CROPLAN®

2025 SEED GUIDE

CROPS

Corn // Soybean // Alfalfa // Corn Silage // Forage Sorghum // Grain Sorghum // Spring Canola // Winter Canola //
Sunflower // Hard Red Spring Wheat // Hard Red Winter Wheat // Soft Red Winter Wheat // Field Pea

INVESTING IN YOUR SUCCESS.

Everything starts with a seed. Every crop. Every decision. Every investment. Which is why there are a few things about CROPLAN® seed, our people, customers, and values that we'd like you to know.

First, we take your satisfaction with our product performance personally. We want to demonstrate the incredible amount of respect we have for our customers and their farms in every action and decision we make. And there is, perhaps, no better way to demonstrate that respect than to bring you new and special seed products that exceed your expectations and move your farm forward. This principal drives our actions every day. And it likely wouldn't be possible without one core attribute – our independent mentality to running our seed business.

You see, CROPLAN seed sits in a very unique place in today's seed industry. We can choose where to invest to best serve our customers. And those investments show up in places you might not expect or where they're easy to look past.

Take our Answer Plot® testing program. Answer Plot trials are an outstanding way for us to invest into your success. They provide an incredible amount of data and understanding, even before a product ever reaches market. Through one of the most robust investments in seed performance research anywhere in this industry, we are able to rapidly bring new, advanced genetics and technologies to market, and to your farm. This investment in our products and your success is easy to overlook. But it's one of the key advantages you bring to your farm every time you plant CROPLAN seed.

Of course data can only can get you so far. To constantly push the limits of genetic gain, you need an elite team of product development experts. Today, we have eight seed specialists, with over 150 years of experience, completely focused on uncovering, observing and evaluating the latest seed genetics and technology. And because we are independent, this team can search all corners of the industry, and commercialize only the products we believe will serve our customers best. We believe this objective endorsement of products creates a product lineup that is truly unique in this industry today.

When we do it all correctly, our independent-minded process brings high performing products to market in a way that makes a difference for the people we do business with. So be sure to take a look at the performance information and product ratings enclosed in this guide. It's just outstanding.

Finally, we'd like you to know that you can only find CROPLAN seed at your local crop input retailer. Today, we believe leading crop input retailers sit in the best place in the seed industry to truly understand what seed will perform best.

Seed can no longer be a one-dimensional decision. The outcome on any acre can only be most successful when the seed decision is made in concert with many other crop input decisions. Decisions your leading crop input retailer is uniquely qualified to make. Although there are many choices of how and where to sell, we choose to only sell CROPLAN through this network of leading crop input retailers. We firmly believe working exclusively with the very best retailers in America is a strategic advantage.

You see, our independence is so important to us because it allows us to make our own business decisions. Those decisions take any business

straight back to their core principles, which we hope you'll see and feel every time you choose to plant CROPLAN seed.

- Put every last drop of effort into creating the very best seed products possible.
- Always deliver value. Even if it costs a little more.
- Earn the customer's trust, and treat people fairly.
- Be dedicated to doing the basics better than everyone else – there are no quick fixes in the seed industry.
- Work with elite partners who understand the entire acre – our retail seed experts.
- Understand we still have a lot of improvements to make; be committed to making them.

That's it.

On the following pages you'll find our commercial products for the 2025 crop year. Please feel free to review and ask your local crop input retailer for their opinion on what may fit your farm best. And know that when you choose CROPLAN seed, you have a team of CROPLAN employees behind each of these products who will lay it all on the line for your success.

CROPLAN®

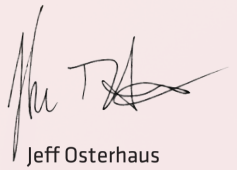
Eric Kennedy
Seed Product Manager,
Coastal East

Virgil Moore
Seed Product Manager,
Coastal West

Andy Dickes
Seed Product Manager, Central

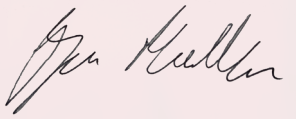
Randy Mette,
Seed Product Manager, East

Jamie Kloster
Seed Product Manager,
North & West



Jeff Osterhaus
Seed Product Manager,
North Central

Carl Scholting
Seed Product Manager,
Central Plains



Ryan Moeller
U.S. Diverse Crop Product
Manager, West

Mick Miller
U.S. Canola Specialist

Leta Larsen
U.S. Alfalfa Specialist

Jeff Jackson
U.S. Sorghum Specialist

Hector DeLeon
Corn and Soybean Director

Jeff Hartz
CROPLAN Brand Manager

CORN

SOPHISTICATED DATA. THE KEY TO UNLOCKING YOUR FARM'S POTENTIAL.

Optimize Seed ROI

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

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

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

- There's a 29.5 bu/A average yield response advantage[1] when hybrids are managed according to their Response to Nitrogen (RTN).
- Then, there's a 13.1 bu/A average yield response advantage[1] when hybrids are managed according to their Response to Fungicide (RTF), which not only guides the fungicide decision, but also the application timing.
- Testing and correlating plant populations, RTN and RTF allows us to make sense of the almost infinite interactions between population, nitrogen, fungicide and yield response for each hybrid.

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

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

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

ZINC SEED TREATMENT IN THE BAG

Zinc is proven to help corn get off to a fast, healthy start and encourage stronger root development. CROPLAN is one of the only seed brands with zinc on every corn hybrid, in every bag, with no overtreatment or upcharge. It's a key component of our proprietary corn seed treatment – Fortivent® Plus. In 2018 Answer Plot® testing, Fortivent Plus showed a +4.7bu/A average advantage over untreated CROPLAN products.

Fortivent® Plus Features and Benefits

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

When you choose CROPLAN seed, you're gaining an agronomic edge which can help maximize ROI potential.

1. 2023 Answer Plot® trial data.

CORN

BRING THE POWER OF PROOF TO YOUR FARM.

Check out the national Answer Plot® results below. They're proof that bringing high-end genetics with the latest traits and an unbiased focus on product development can deliver big yield potential. Make sure these high performers are a part of your final lineup this season.

	CORN PRODUCT	YIELD BU/A	MOISTURE	TEST WEIGHT
80 Day Corn Product Trial	CP2324VT2P	228.6	19.2%	54.0
	CP2180VT2P	214.7	18.6%	55.6
	CP2315VT2P	201.9	19.7%	55.5
	CP2288VT2P	201.7	19.6%	55.6
	2023 Answer Plot trial data, from 72 reps across 11 locations in MN, ND and WI.			
85 Day Corn Product Trial	CP2965VT2P	247.3	20.4%	55.0
	CP2790VT2P	244.8	19.7%	54.4
	CP2845VT2P	236.0	19.7%	55.0
	CP2845SS	231.0	20.4%	54.8
	CP2692D	228.4	21.1%	54.7
	CP2851VT2P	227.5	19.6%	54.4
	CP2585SS	226.5	19.9%	55.5
	CP2324VT2P	225.9	18.3%	54.4
	CP2585VT2P	222.9	19.1%	55.4
	CP2315VT2P	203.3	18.9%	55.5
	2023 Answer Plot trial data, from 59 reps across 15 locations in SD, ND, MN and WI.			
90 Day Corn Product Trial	CP3143VT2P	252.3	20.2%	54.4
	CP3330VT2P	250.0	20.2%	54.7
	CP3490VT2P	246.5	21.1%	54.2
	CP2965VT2P	237.9	19.1%	55.7
	CP3314VT2P	234.6	20.1%	54.4
	CP3166VT2P	234.1	19.2%	54.3
	CP2851VT2P	229.3	18.6%	55.4
	CP3337VT2P	226.2	19.6%	54.9
	CP2845VT2P	225.9	18.5%	56.1
	CP2845SS	224.4	19.2%	55.9
	2023 Answer Plot trial data, from 44 reps across 15 locations in SD, ND, MN and WI.			

	CORN PRODUCT	YIELD BU/A	MOISTURE	TEST WEIGHT
95 Day Corn Product Trial	CP3790VT2P	261.6	20.6%	54.7
	CP3724VT2P	249.5	20.2%	55.1
	CP3519SS	248.2	19.6%	56.5
	CP3899VT2P	240.7	19.8%	55.1
	CP3330VT2P	238.4	18.7%	55.7
	CP3735SS	234.0	20.0%	56.5
	CP3735VT2P	232.9	19.8%	57.0
	CP3490VT2P	226.8	19.4%	55.4
	2023 Answer Plot trial data, from 75 reps across 24 locations in IA, MI, MN, SD, ND and WI.			
100 Day Corn Product Trial	CP3852TRE	249.8	18.0%	55.7
	CP4444VT2P	245.2	18.5%	55.8
	CP3724VT2P	245.1	18.3%	56.1
	CP3980VT2P	245.0	17.8%	56.3
	CP4024SSPRO	244.3	18.6%	55.5
	CP3715SSPRO	242.3	17.6%	56.3
	CP4188SS	241.3	18.2%	55.6
	CP4246SS	241.1	18.9%	57.0
	CP4188VT2P	237.4	18.2%	55.9
	CP4079VT2P	228.6	18.1%	56.1
	2023 Answer Plot trial data, from 90 reps across 28 locations in CO, KS, IA, MI, OH, SD, ND, MN and WI.			
105 Day Corn Product Trial	CP4770SS	269.7	18.5%	55.4
	CP4840TRE	264.7	20.0%	56.1
	CP4757VT2P	261.0	18.5%	57.6
	CP4516TRE	259.2	17.9%	55.6
	CP4652SSPRO	253.6	18.2%	55.8
	CP4444VT2P	237.3	16.6%	56.8
	2023 Answer Plot trial data, from 148 reps across 47 locations in IL, IN, OH, KS, NE, CO, IA, MI, MN, SD and WI.			

	CORN PRODUCT	YIELD BU/A	MOISTURE	TEST WEIGHT
110 Day Corn Product Trial	CP5208VT2P	269.4	19.9%	57.3
	CP4930DGVT2P	263.4	18.8%	56.7
	CP5073VT2P	259.1	19.7%	55.4
	CP5132SS	258.2	19.9%	56.4
	CP4917SSPRO	258.0	18.7%	55.1
	CP5244VT2P	256.3	19.4%	55.4
	CP4840TRE	256.1	18.4%	56.9
	CP5073SS	255.0	18.4%	55.7
	CP5115SS	253.3	19.9%	58.2
	2023 Answer Plot trial data, from 137 reps across 42 locations in IL, OH, KS, NE, IN, TN, KY, IA, MO and WI.			
115 Day Corn Product Trial	CP5760TRE	280.0	21.8%	54.4
	CP5320SSPRO	276.8	19.5%	55.7
	CP5497VT2P	276.7	20.4%	56.7
	CP5363TRE	268.0	20.0%	56.6
	CP5588DGVT2P	267.7	20.5%	56.8
	CP5370VT2P	263.8	19.5%	56.5
	CP5678VT2P	262.0	20.1%	57.2
	CP5550VT2P	260.0	19.8%	56.0
	CP5678SS	258.2	20.5%	57.2
	2023 Answer Plot trial data, from 157 reps across 39 locations in IL, KS, NE, CO, MS, IN, TN, OH, IA, AL, AR, MO,			
120 Day Corn Product Trial	CP5682TRE	260.8	19.0%	56.2
	CP5760TRE	259.0	19.7%	55.7
	CP5893TRE	258.0	18.6%	58.6
	CP5717VT2P	250.4	19.1%	59.1
	CP5678VT2P	246.9	18.2%	58.5
	CP5678SS	241.2	18.5%	58.2
	2023 Answer Plot trial data, from 106 reps across 17 locations in IL, MS, IN, KS, TN, KY, AL, AR, MO, NE and IA.			

CROPLAN®

CORN

OUR INDEPENDENCE FUELS THE TRAITS WE OFFER.

When you are a leader in the seed industry, you're able to hand select the genetics and traits farmers want, independently. Here are the traits available in our lineup this year.

BELOW GROUND TRAITS	TRAIT COMPONENTS					HERBICIDE TOLERANCE			
	YIELDGARD® ROOTWORM	HERCULEX® ROOTWORM	AGRISURE® ROOTWORM	AGRISURE® DURACADE®	RNAi	GLYPHOSATE	GLUFOSINATE	ENLIST®	FOPS
VT4PRO™	✓				✓	✓			
SMARTSTAX®	✓	✓				✓	✓		
SMARTSTAX® PRO	✓	✓			✓	✓	✓		
DURACADE®			✓	✓		✓	✓**		

ABOVE GROUND TRAITS	TRAIT COMPONENTS				HERBICIDE TOLERANCE			
	YIELDGARD VT PRO®	YIELDGARD® CORN BORER	HERCULEX® 1	AGRISURE VIPTERA®	GLYPHOSATE	GLUFOSINATE	ENLIST®	FOPS
VT DOUBLE PRO®	✓				✓			
TRECEPTA® TECHNOLOGY	✓			✓	✓			
POWERCORE® ENLIST®	✓		✓		✓	✓	✓	✓

**Check bag tag on tolerance

CORN

CROPLAN® TRAIT LETTERING FOR CORN HYBRIDS

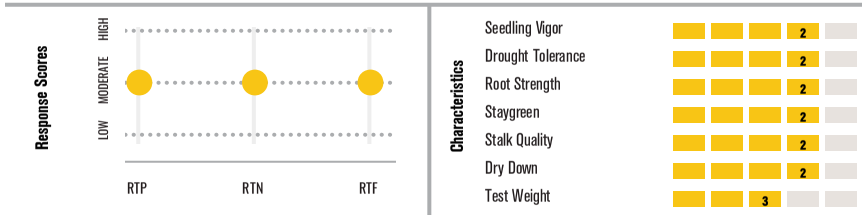
Descriptive hybrid numbering and trait lettering systems are used for CROPLAN® corn hybrids.

KEY	HYBRID	TRAIT	LOGO
SS/RIB	SmartStax® RIB Complete® Corn Blend	Two mode of actions working against corn rootworm for below ground protection. As a RIB Complete® brand corn blend, means refuge compliance for the Corn-Growing Area is easier than ever. Two more sites of action provide tolerance to glyphosate and glufosinate herbicide applications.	SmartStax RIB COMPLETE
SSPRO/RIB	SmartStax® PRO Complete® Corn Blend	For corn on corn acres, or those with corn rootworm damage, SmartStax® PRO technology contains three different modes of action against corn rootworm. SmartStax® PRO Technology combines the proven benefits of SmartStax® Technology with an additional, unique RNAi-based mode of action — becoming the first product with three modes of action for corn rootworm control. Plus, it's a RIB Complete® brand corn blend, which means refuge compliance for the Corn-Growing Area is easier than ever. Products available with and without refuge in bag options.	SmartStax PRO RIB COMPLETE
VT4P	VT4PRO™ RIB Complete®	For corn on corn acres, or those with corn rootworm damage, VT4PRO™ Technology combines the three built-in modes of action in Trecepta® Technology, an elite above-ground pest package for corn, with two below-ground modes of action to help manage corn rootworm. VT4PRO Technology will provide farmers protection against above-ground pests including European corn borer, southwestern corn borer, fall armyworm, black cutworm, western bean cutworm and corn earworm. VT4PRO contains Roundup Ready 2 Technology® which allows the corn plant to withstand glyphosate treatments. Plus, it's a RIB Complete® brand corn blend, which means refuge compliance for the Corn- Growing Area is easier than ever. Products available with and without refuge in bag options.	VT4PRO RIB COMPLETE
VT2P/RIB	VT Double PRO® RIB Complete® Corn Blend	For rotated acres with no visible corn rootworm, and low to moderate risk. Dual modes of action for maximum protection against above-ground pests, like European and Southwestern corn borers and fall armyworm. An additional site of action helps plants withstand glyphosate to prevent weeds from competing with corn. As a RIB Complete® brand corn blend, means refuge compliance for the Corn-Growing Area is easier than ever. Products available with and without refuge in bag options.	VTDoublePRO RIB COMPLETE
RR	Roundup Ready® Corn 2	Roundup Ready Corn 2 enables consistent field-to-field weed control. Engineered for glyphosate tolerance, this technology allows you to apply Roundup® brand agricultural herbicides and other labeled glyphosate products.	Roundup Ready CORN 2
TRE/RIB	Trecepta® RIB Complete® Corn Blend	For rotated acres with no visible corn rootworm, and low to moderate risk. Trecepta® Technology helps reduce yield loss by protecting your corn crop from a wide range of above-ground pests. Built on the proven VT Double PRO® Technology, Trecepta Technology gives you more complete control against corn borers (European and southwestern), fall armyworm, western bean cutworm, black cutworm and corn earworm. Trecepta contains Roundup Ready 2 Technology® which allows the corn plant to withstand glyphosate treatments. Plus, it's a RIB Complete® brand corn blend, which means refuge compliance for the Corn-Growing Area is easier than ever. Products available with and without refuge in bag options.	Trecepta RIB COMPLETE
DGVT2P/RIB	DroughtGard® VT Double PRO® RIB Complete® Corn Blend	VT Double PRO® RIB Complete® corn blend contains dual modes of action for maximum protection against above-ground pests, like European and Southwestern corn borers and fall armyworm. DroughtGard® Hybrids products are designed to help corn plants resist drought stress and minimize the risk associated with one key, unpredictable factor: The weather. The DroughtGard® Hybrids gene helps the plant create proteins that are essential for growth, helping to support yield opportunity when water is scarce. Plus, it's a RIB Complete® brand corn blend, which means refuge compliance for the Corn-Growing Area is easier than ever. Products available with and without refuge in bag options.	DroughtGard HYBRIDS VTDoublePRO
D	Duracade™	The Duracade™ trait stack provides multiple modes of action against corn rootworm and corn borer, as well as suppression of ear-feeding insects. This trait stack includes a novel, alternate mode of action to help preserve trait durability and delay insect adaptation for long-term field health, and the convenience of an integrated E-Z Refuge® seed blend.	HERCULEX I HX Duracade LIBERTY LINK
PCE	PowerCore® Enlist®	Herbicide flexibility with the Enlist® weed control system, which offers tolerance to 2,4-D choline in Enlist® herbicides in addition to glufosinate and glyphosate. Insect control against black cutworm, fall armyworm, European and southwestern corn borers, and corn earworm. Enlist weed control system provides a whole-farm solution across corn, soybean and cotton acres.	POWERCORE Enlist REFUGE ADVANCED

CROPLAN CP3715SSPRO

SmartStax PRO

Relative Maturity: 97



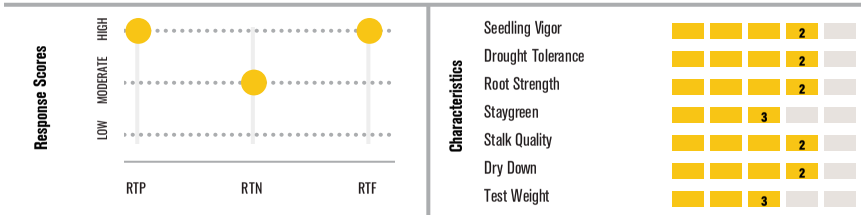
- Versatile SmartStax® PRO hybrid for known CRW acres
- Strong stress tolerance and solid agronomics
- Moderate RTN rating; doesn't need aggressive nitrogen management to thrive
- Manage in areas where gray leaf spot is a concern

NEW

CROPLAN CP4024SSPRO

SmartStax PRO

Relative Maturity: 100

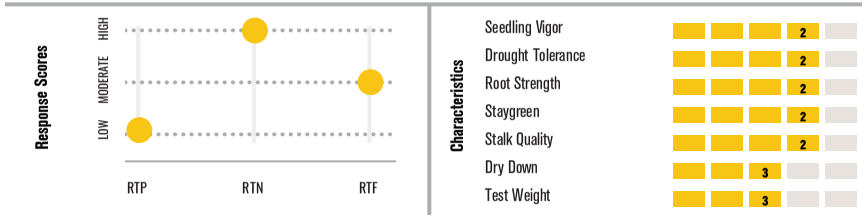


- Versatile hybrid; works well within zone and north of zone
- Strong roots and stalks; wide area of adaptability
- Moderate response to nitrogen and fungicide; great flexibility
- Manage leaf diseases with a fungicide in corn-on-corn situations

CROPLAN CP4652SSPRO

SmartStax PRO

Relative Maturity: 106



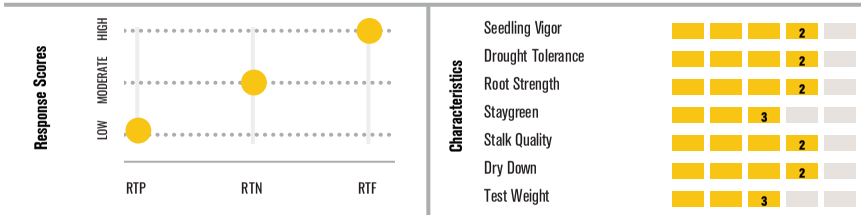
- Versatile hybrid works well within zone and south of zone
- Excellent top end yield potential hybrid
- Responds favorably to additional nitrogen applications
- Maximize late season staygreen with fungicide application

NEW

CROPLAN CP4917SSPRO

SmartStax PRO

Relative Maturity: 109



- Exciting new SmartStax® PRO hybrid; works east to west
- Very good agronomics; good greensnap tolerance
- Best if kept in maturity zone; does not move south exceptionally well
- Good Goss's wilt and southern rust tolerance

KEY

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

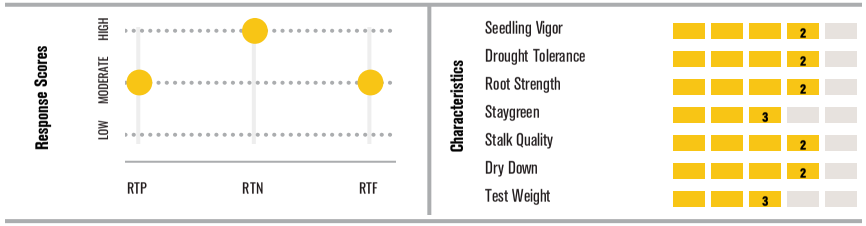
Product descriptions and ratings are generated from Answer Plot® trials and/or from the genetics supplier and my change as additional data is gathered.

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

NEW

CROPLAN CP5320SSPRO SmartStax PRO

Relative Maturity: 113

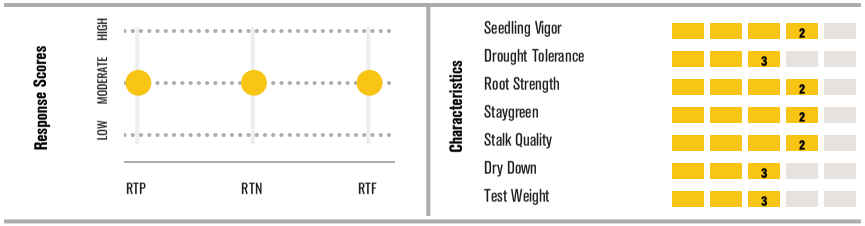


- New key 113 RM SmartStax® PRO hybrid; handles marginal-to-highly productive acres, rotated and corn-on-corn
- Strong emergence, stalks and disease package; early vigor with dual purpose silage option
- Semi-flex ear allows for moderate planting populations
- Tall plant type with higher ear placement

CROPLAN CP2585SS SmartStax RIB COMPLETE

[VT2P/RIB]*

Relative Maturity: 85

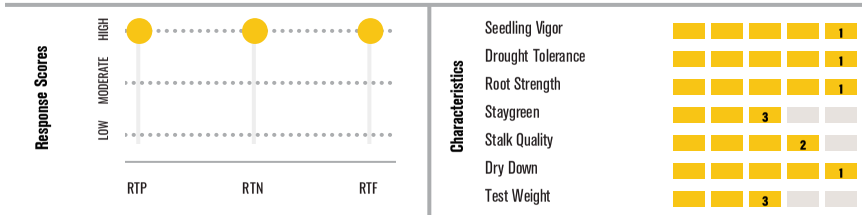


- Ideally placed on productive soils
- Strong seedling vigor for planting early
- Moderate response to nitrogen hybrid; good response to agressive nitrogen management
- Use caution in drought-prone, low productive soils

CROPLAN CP2845SS SmartStax RIB COMPLETE

[VT2P/RIB]*

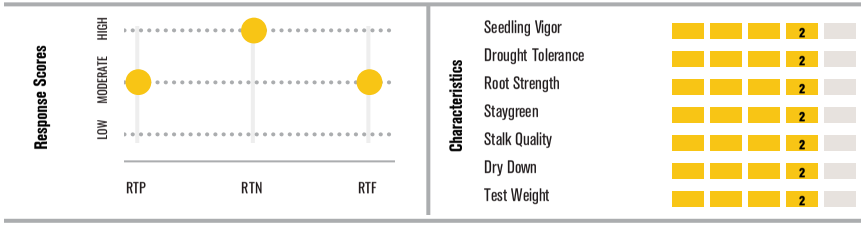
Relative Maturity: 89



- 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

CROPLAN CP3399SS SmartStax RIB COMPLETE

Relative Maturity: 94



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

KEY

SCALE:
1 = Excellent
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3 = Acceptable
4 = Manage
5 = Not Recommended

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

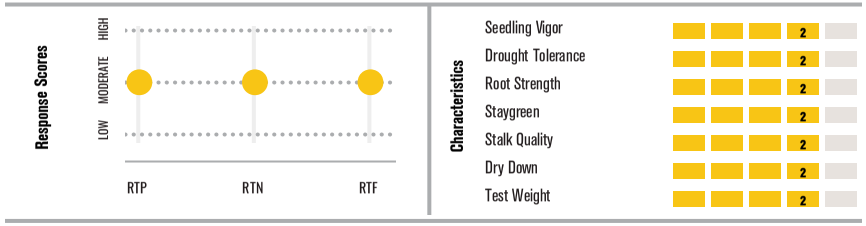
CROPLAN® corn silage hybrids that consistently perform for high-quality and high-tonnage in Answer Plot® trials.

NEW

CROPLAN CP3519SS

SmartStax RIB COMPLETE

Relative Maturity: 95



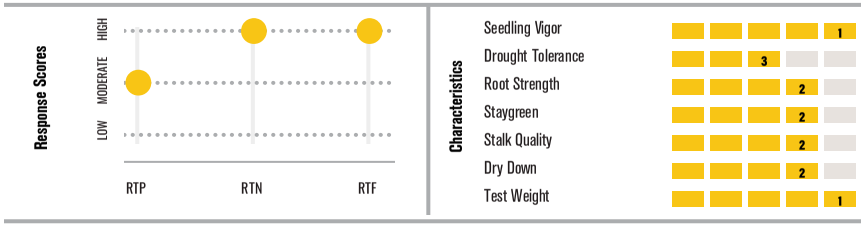
- Versatile SS-hybrid; big yield potential and strong agronomics
- Solid agronomic package; strong emergence, stalks, roots and drought tolerance
- Moderate response to fungicide; versatile placement on both rotated and continuous corn acres
- Acceptable Goss's wilt tolerance; manage in high pressure areas

CROPLAN CP3735SS

SmartStax RIB COMPLETE

[VT2P/RIB]*

Relative Maturity: 97

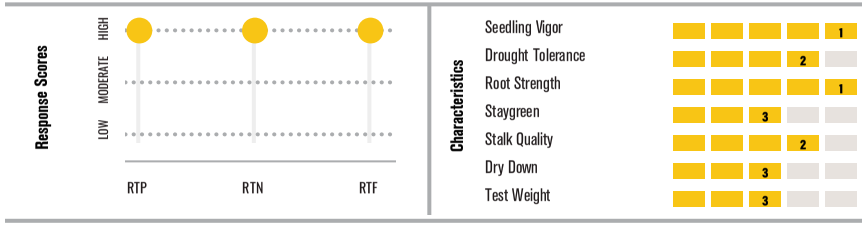


- Adaptable east to west; best suited for variable and tough acres
- Excellent test weight and emergence with solid defensive traits
- Plant at moderate to high densities; fungicide application is recommended
- Keep in RM zone

CROPLAN CP4099SS

SmartStax RIB COMPLETE

Relative Maturity: 100



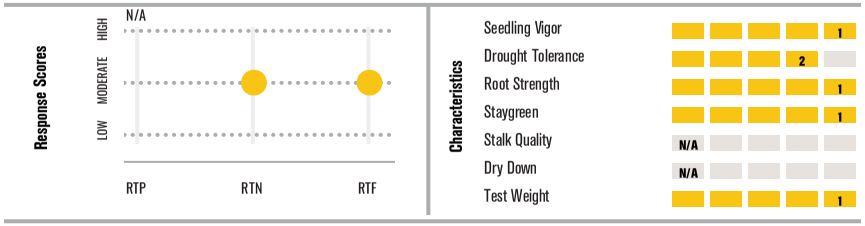
- Solid product that shows consistency in most soil types with high-yield potential
- Late-flowering hybrid has excellent roots and seedling vigor
- High response to intensive management; can also handle average acres
- Manage in areas with gray leaf spot and northern corn leaf blight

CROPLAN CP4188SS

SmartStax RIB COMPLETE

[VT2P/RIB*, CONV]

Relative Maturity: 101



- Works east to west with a widely adapted footprint
- Very attractive plant type with solid agronomic package
- Semi-flex ear allows lower densities; responds when population is pushed
- Handles tough, variable and ideal yield 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 my change as additional data is gathered.

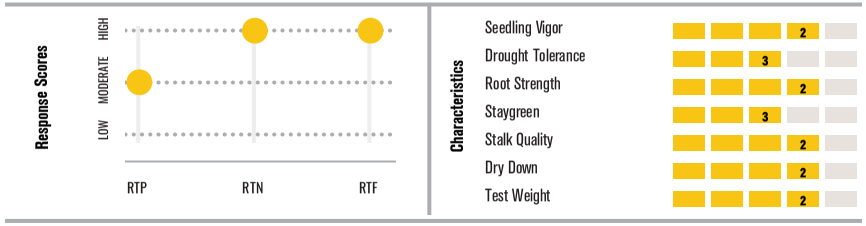
CROPLAN® corn silage hybrids that consistently perform for high-quality and high-tonnage in Answer Plot® trials.

NEW

CROPLAN CP4246SS

SmartStax RIB COMPLETE

Relative Maturity: 102

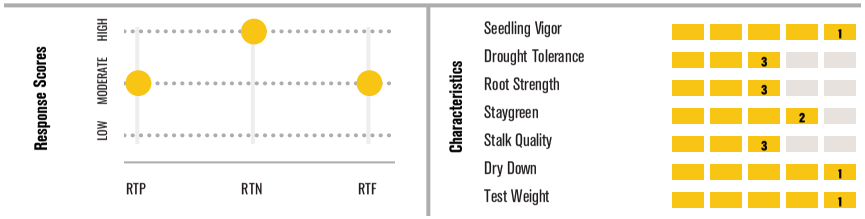


- Tough-acre hybrid for the moderate-to-low corn-on-corn acre
- Strong roots, stalks and emergence for the corn-on-corn acres
- Semi-flex ear allows for variable planting populations
- Acceptable GLS and NCLB; manage with a fungicide

CROPLAN CP4676SS

SmartStax RIB COMPLETE

Relative Maturity: 106



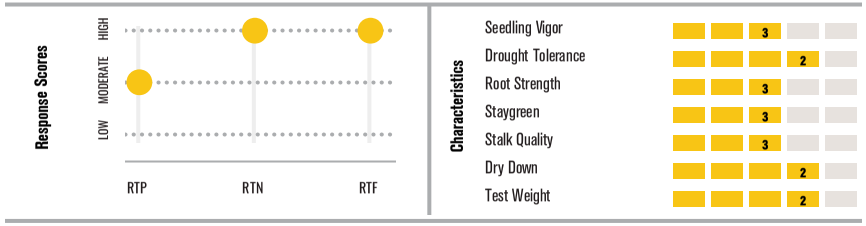
- Versatile hybrid, position and manage for high yield
- Medium-height hybrid with excellent emergence, seedling vigor and test weight
- Position at medium populations and manage nitrogen for high-yield-potential
- Fungicide application recommended in areas prone to gray leaf spot

NEW

CROPLAN CP4770SS

SmartStax RIB COMPLETE

Relative Maturity: 107

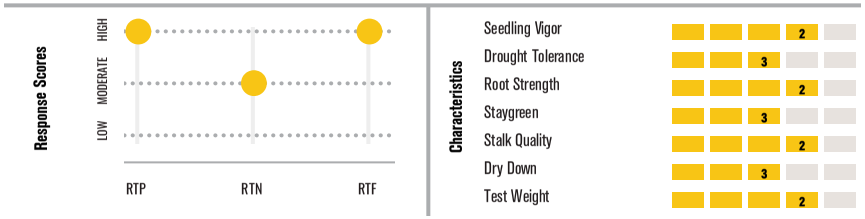


- Broadly adapted across yield environments; excels on highly productive and silage acres
- Strong test weight and drought tolerance allow for broad placement
- Position at medium populations with enhanced nitrogen management for high yield potential
- Tall plant type with higher ear placement

CROPLAN CP4880SS

SmartStax RIB COMPLETE

Relative Maturity: 108



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

KEY

SCALE:
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5 = Not Recommended

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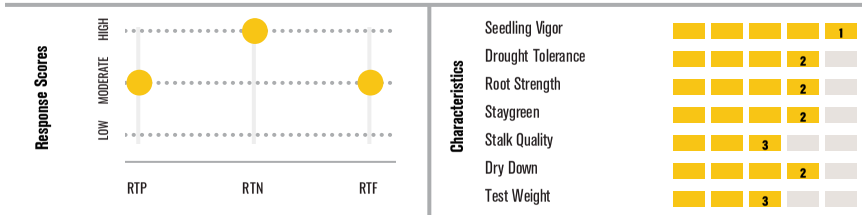
CROPLAN® corn silage hybrids that consistently perform for high-quality and high-tonnage in Answer Plot® trials.

CROPLAN CP5073SS

SmartStax® RIB COMPLETE

[VT2P/RIB]*

Relative Maturity: 110



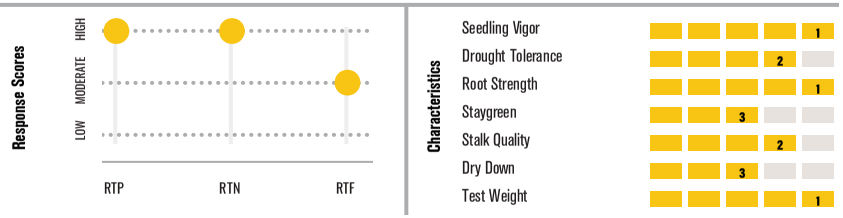
- Best performance on medium-to-highly productive acres
- Strong early plant vigor for reduced tillage and early planting
- Nice ear flex for moderate densities; high response-to-nitrogen
- Utilize fungicide to enhance late-season health

CROPLAN CP5115SS

SmartStax® RIB COMPLETE

[VT2P/RIB]*

Relative Maturity: 111



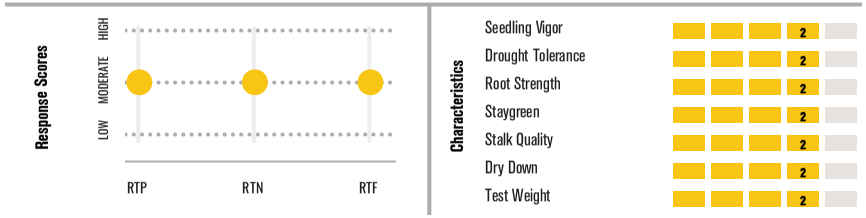
- Best suited for variable to tough acres
- Excellent emergence, seedling vigor and roots
- Semi-flex ear; plant at moderate populations
- Avoid areas with Goss's wilt history

NEW

CROPLAN CP5132SS

SmartStax® RIB COMPLETE

Relative Maturity: 111

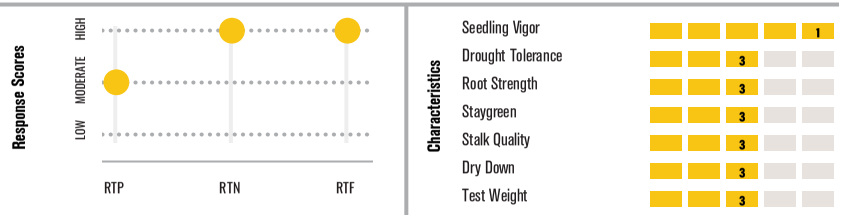


- New 111 SmartStax® hybrid replaces SS products: CP5210, CP5073 and CP5115
- Very good late season standability and intactness with nice grain quality
- Responds well to higher management

CROPLAN CP5210SS

SmartStax® RIB COMPLETE

Relative Maturity: 112



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

KEY

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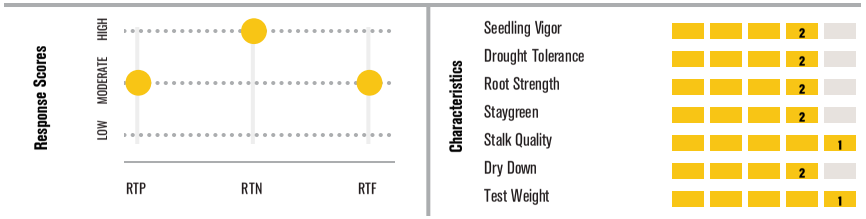
CROPLAN® corn silage hybrids that consistently perform for high-quality and high-tonnage in Answer Plot® trials.

CROPLAN CP5335SS

SmartStax RIB COMPLETE

[VT2P/RIB]*
Relative Maturity: 113

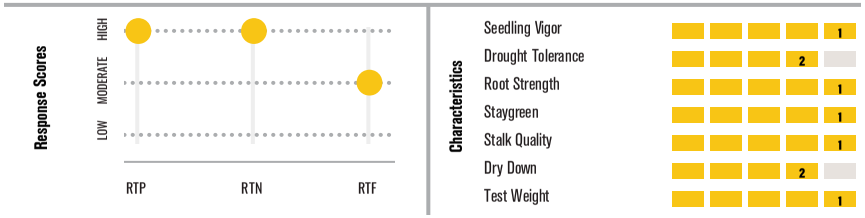


- Tremendous consistency across variable yield environments
- Excellent agronomics, including stalks and late-season intactness
- Acceptable ear flex for variable densities; strong plant health for continuous corn
- Goss's wilt rating over 5370; benefits from enhanced nitrogen management

CROPLAN CP5370SS

SmartStax RIB COMPLETE

[VT2P/RIB]*
Relative Maturity: 113

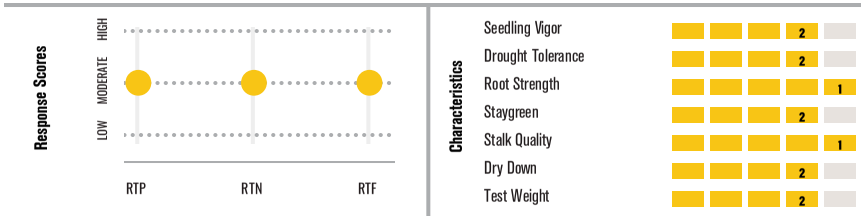


- Versatile, dual-purpose product; adapted across multiple yield environments
- Excellent stalks, roots and test weight; strong drydown
- Optimize yield potential with enhanced nitrogen management; moderate-to-high plant densities
- Best positioned on rotated acres; ear tip back influenced by genetics

CROPLAN CP6594SS

SmartStax RIB COMPLETE

[VT2P/RIB]*
Relative Maturity: 113

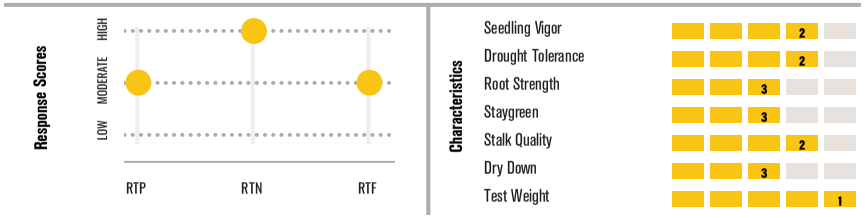


- Widely adapted east to west; excellent heat tolerance and high-yield-potential
- Solid agronomics; excellent stalks and roots; acceptable Goss's wilt tolerance
- Moderate response-to-nitrogen and population scores
- Take advantage of fast drydown at harvest; keep in 110RM zones

CROPLAN CP5678SS

SmartStax RIB COMPLETE

[VT2P/RIB, RR]*
Relative Maturity: 116



- 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

KEY

SCALE:
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2 = Strong
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5 = Not Recommended

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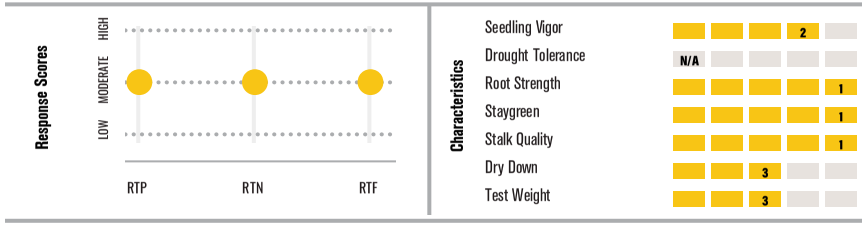
CROPLAN® corn silage hybrids that consistently perform for high-quality and high-tonnage in Answer Plot® trials.

CROPLAN CP2692D

Duracade Artesian

Relative Maturity: 86

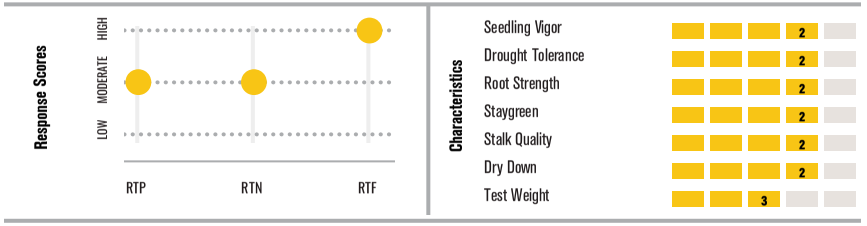


- Agrisure Duracade™ Artesian® trait with excellent yield potential; handles variability and multiple soil types
- Medium-tall plant with strong stalks; dual-purpose option
- Low response to population for success at lower plant densities
- Acceptable Goss's wilt tolerance; slower drydown due to girthy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

CROPLAN CP3852TRE

Trecepta RIB COMPLETE

Relative Maturity: 98

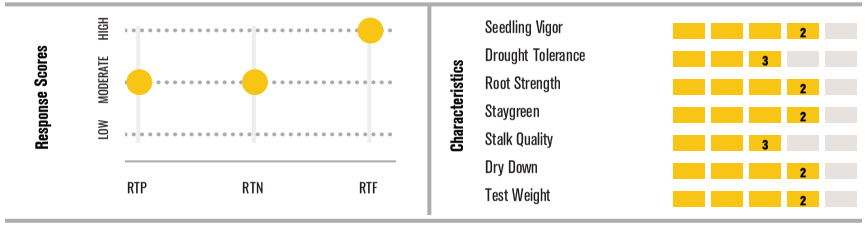


- Consistent high-yield potential across multiple environments and soil types
- Strong emergence, roots and stalk quality
- Semi-flex ear that allows for a range of populations
- Manage GLS and NCLB with a fungicide in heavy pressure scenarios

CROPLAN CP4516TRE

Trecepta RIB COMPLETE

Relative Maturity: 105



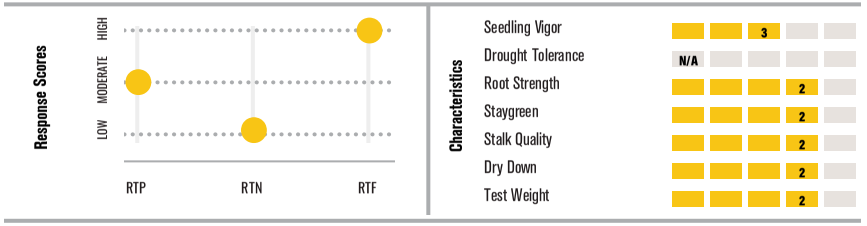
- Best performance on medium-to-highly productive acres
- Strong roots, test weight and Goss's wilt tolerance
- High response to intensive management; can handle average acres
- Manage late season intactness with a fungicide application in high yield environments

NEW

CROPLAN CP4840TRE

Trecepta RIB COMPLETE

Relative Maturity: 108



- New 108 Trecepta® hybrid; highly versatile
- Very good late season standability and intactness; nice grain quality
- Good ear flex that allows for moderate planting populations
- Acceptable emergence; do not plant first

KEY

SCALE:
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5 = Not Recommended

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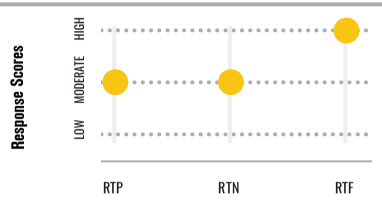
CROPLAN® corn silage hybrids that consistently perform for high-quality and high-tonnage in Answer Plot® trials.

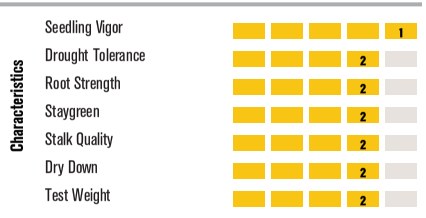
NEW

CROPLAN CP5363TRE

Trecepta RIB COMPLETE

Relative Maturity: 113





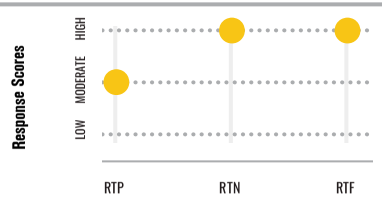
- High yield potential when placed on medium-to-highly productive acres
- Excellent emergence with strong late season stalks and drought tolerance
- Manage key diseases and late season intactness with fungicide application
- Fungicide is recommended in areas where GLS and southern rust are a concern

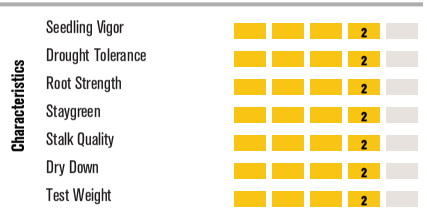
NEW

CROPLAN CP5682TRE

Trecepta RIB COMPLETE

Relative Maturity: 116



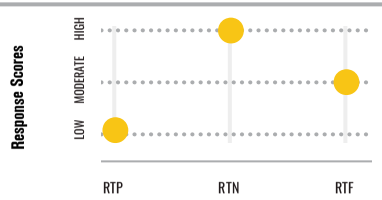


- Broadly adapted across yield environments; excels on highly productive acres
- Strong agronomic package; very good grain quality
- Semi-flex ear allows for variable planting populations

CROPLAN CP5760TRE

Trecepta RIB COMPLETE

Relative Maturity: 117

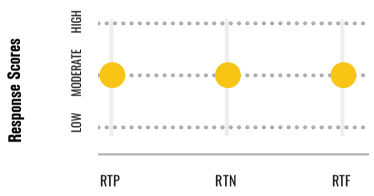


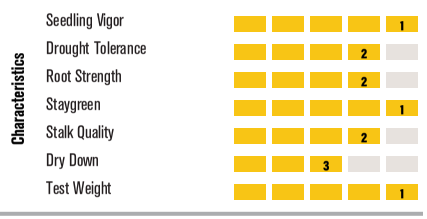
- Outstanding performance potential from east to west
- Top end yield potential with good ear flex capabilities
- Versatile placement across soil types at moderate populations
- Fungicide recommended to enhance protection against southern rust

CROPLAN CP5893TRE

Trecepta RIB COMPLETE

Relative Maturity: 118





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

KEY

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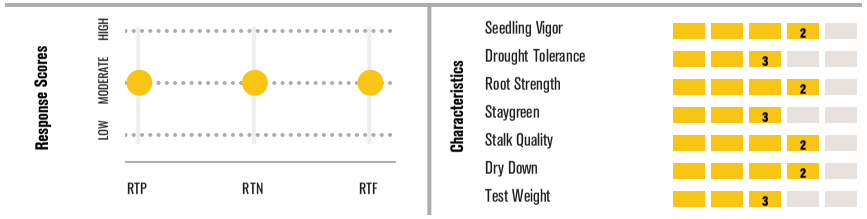
CROPLAN® corn silage hybrids that consistently perform for high-quality and high-tonnage in Answer Plot® trials.

CROPLAN CP2180VT2P

VTDoublePRO RIB COMPLETE

Relative Maturity: 81

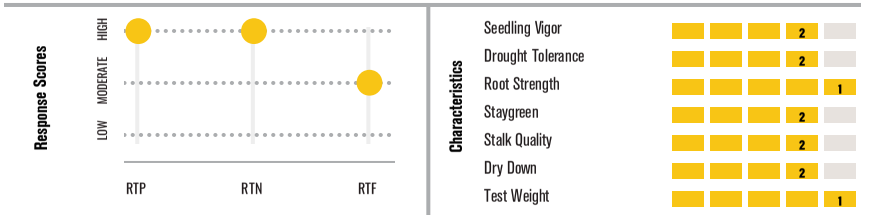


- Position in average-to-high yield potential acres
- Strong vigor, stalks and roots
- Maximize yield potential with moderate-to-high populations
- Flowers early for RM, keep in zone

CROPLAN CP2288VT2P

VTDoublePRO RIB COMPLETE

Relative Maturity: 82

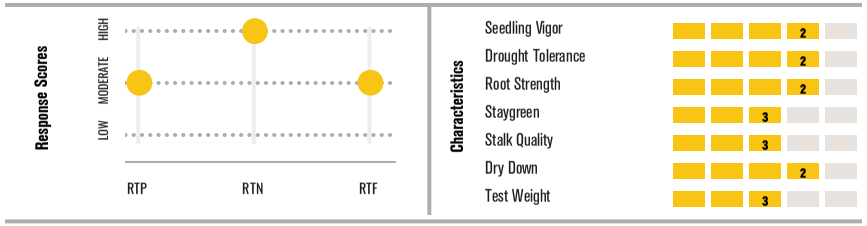


- Excellent yield stability across all environments; strong stress tolerance
- Excellent root strength with strong stalks
- Responds to enhanced nitrogen management
- Strong Goss's wilt tolerance

CROPLAN CP2315VT2P

VTDoublePRO RIB COMPLETE

Relative Maturity: 83



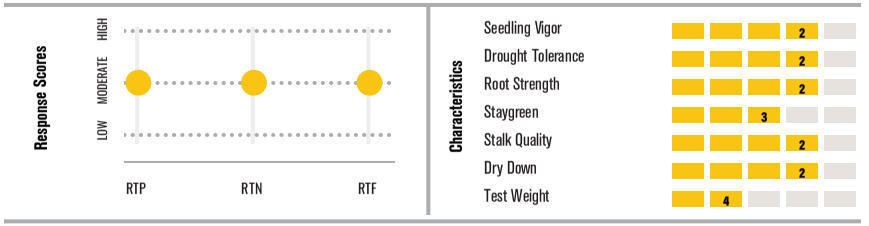
- Excellent drought tolerance to move across variable and tough acres
- Solid agronomics with strong defensive characteristics
- Manage with populations and fungicide application
- Flowers early for RM, keep in zone

NEW

CROPLAN CP2324VT2P

VTDoublePRO RIB COMPLETE

Relative Maturity: 83



- New key early 80 RM hybrid; works across yield environments
- Strong seedling vigor for planting early
- Fast die/fast dry type hybrid will drydown fast after maturity
- A bit lighter test weight

KEY

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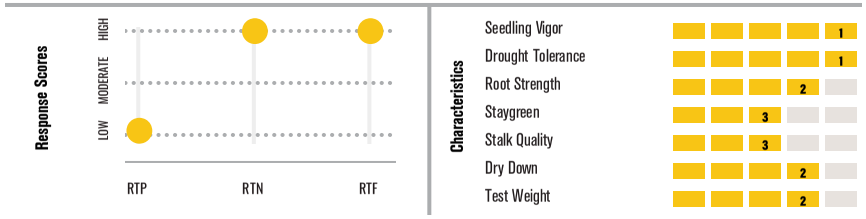
CROPLAN® corn silage hybrids that consistently perform for high-quality and high-tonnage in Answer Plot® trials.

CROPLAN CP2790VT2P

VTDoublePRO RIB COMPLETE

Relative Maturity: 87



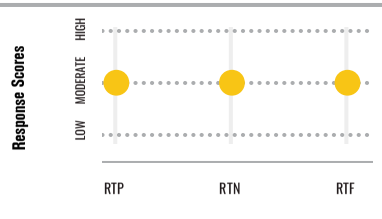
Characteristics	
Seedling Vigor	1
Drought Tolerance	1
Root Strength	2
Staygreen	3
Stalk Quality	3
Dry Down	2
Test Weight	2

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

CROPLAN CP2851VT2P

VTDoublePRO RIB COMPLETE

Relative Maturity: 88



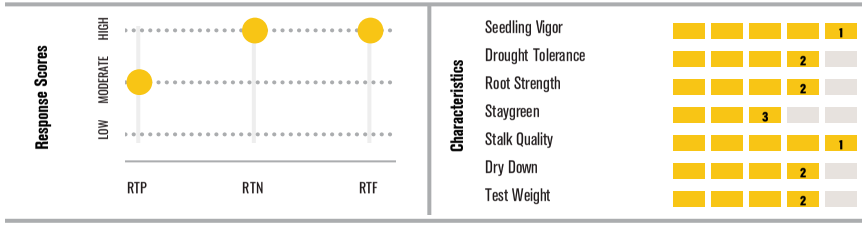
Characteristics	
Seedling Vigor	3
Drought Tolerance	3
Root Strength	2
Staygreen	3
Stalk Quality	2
Dry Down	2
Test Weight	2

- 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

CROPLAN CP2965VT2P

VTDoublePRO RIB COMPLETE

Relative Maturity: 89



Characteristics	
Seedling Vigor	1
Drought Tolerance	2
Root Strength	2
Staygreen	3
Stalk Quality	1
Dry Down	2
Test Weight	2

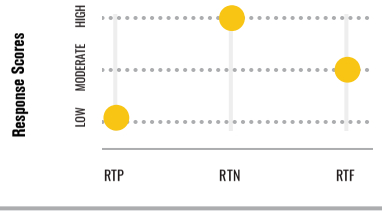
- Consistent performance in variable ground
- Excellent early vigor for early planting
- High response-to-nitrogen; aggressive N fertility helps drive yield potential on productive soils
- Acceptable Goss's wilt tolerance

NEW

CROPLAN CP3143VT2P

VTDoublePRO RIB COMPLETE

Relative Maturity: 91



Characteristics	
Seedling Vigor	2
Drought Tolerance	2
Root Strength	2
Staygreen	2
Stalk Quality	2
Dry Down	3
Test Weight	2

- High-yield potential for productive soils with good stress tolerance for tougher acres
- Strong early vigor for early planting; strong stalks late into season
- Good ear flex for planting at reduced populations
- Acceptable Goss's wilt tolerance

KEY

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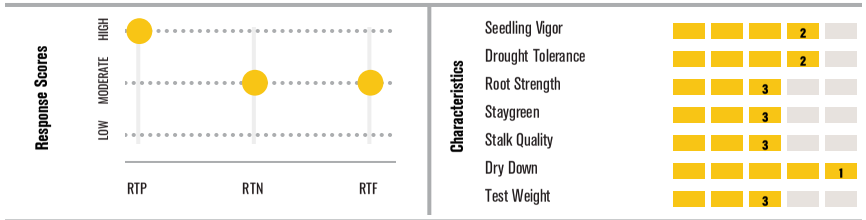
CROPLAN® corn silage hybrids that consistently perform for high-quality and high-tonnage in Answer Plot® trials.

CROPLAN CP3166VT2P

VTDoublePRO RIB COMPLETE

Relative Maturity: 91

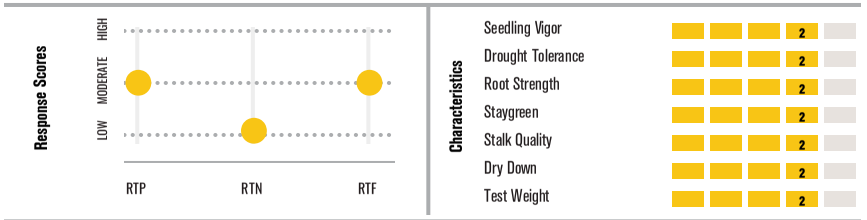


- Well adapted for planting across yield environments and soil types
- Strong early vigor and very good stress tolerance
- Good ear flex at low populations and maintains ear size at high populations
- Acceptable Goss's wilt tolerance

CROPLAN CP3314VT2P

VTDoublePRO RIB COMPLETE

Relative Maturity: 93



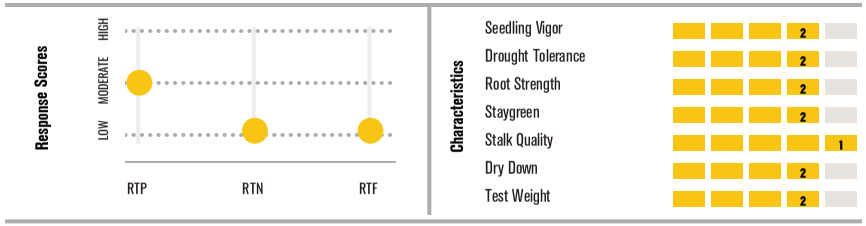
- Tough-acre hybrid for low-yielding environments
- Solid agronomic package
- Flex ear for variable planting populations
- Manage for Goss's wilt

NEW

CROPLAN CP3330aVT2P

VTDoublePRO RIB COMPLETE

Relative Maturity: 93



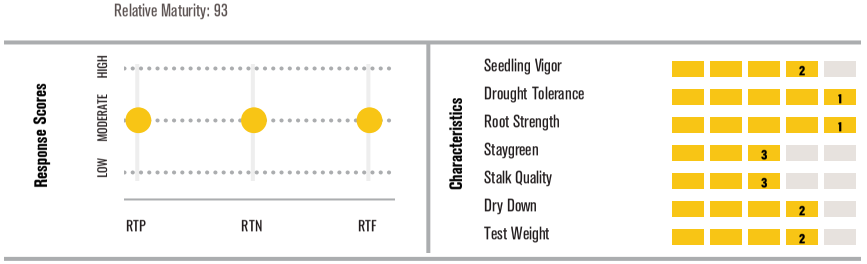
- Broadly adapted hybrid with outstanding agronomics and yield potential
- Strong emergence, stalks, roots and drought tolerance
- Low RTN and RTF; flexible and economical to manage
- Strong Goss's wilt tolerance

CROPLAN CP3337VT2P

[RR]

VTDoublePRO RIB COMPLETE

Relative Maturity: 93



- 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

KEY

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

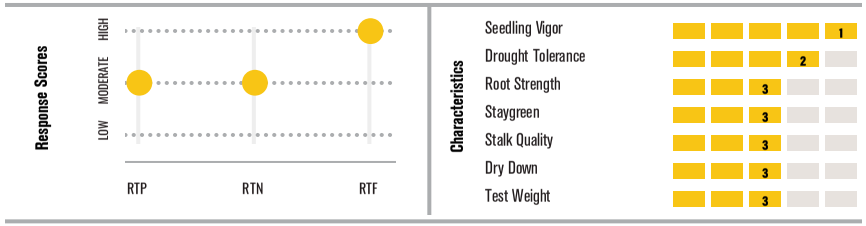
Product descriptions and ratings are generated from Answer Plot® trials and/or from the genetics supplier and my change as additional data is gathered.

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

CROPLAN CP3490VT2P

VTDoublePRO RIB COMPLETE

Relative Maturity: 94

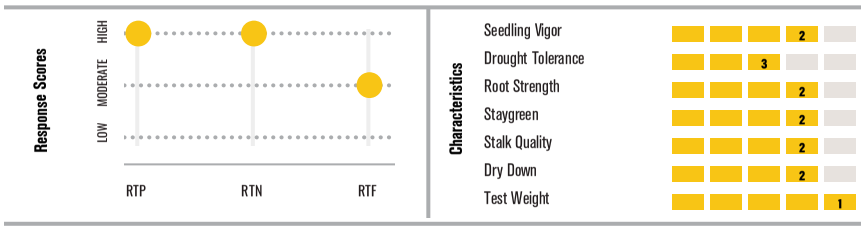


- High-yield potential hybrid with versatility
- Strong drought tolerance allows placement on drier acres
- Excellent emergence allows for early-plant option
- Acceptable drydown

CROPLAN CP3575VT2P

VTDoublePRO RIB COMPLETE

Relative Maturity: 95

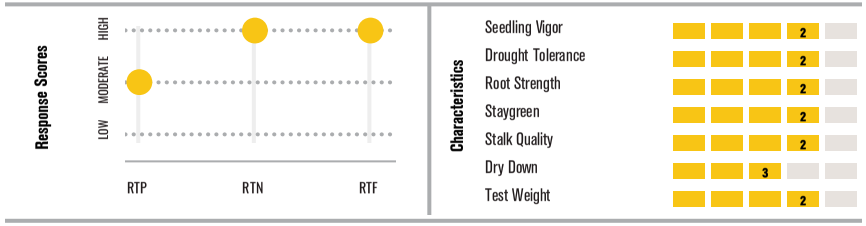


- Excels in moderate-to-high-yield environments; moves across all soil types
- Strong stalk quality and root strength
- Good ear flex for low plant densities, but responds to higher management
- Manage for Goss's wilt

CROPLAN CP3724VT2P

VTDoublePRO RIB COMPLETE

Relative Maturity: 97



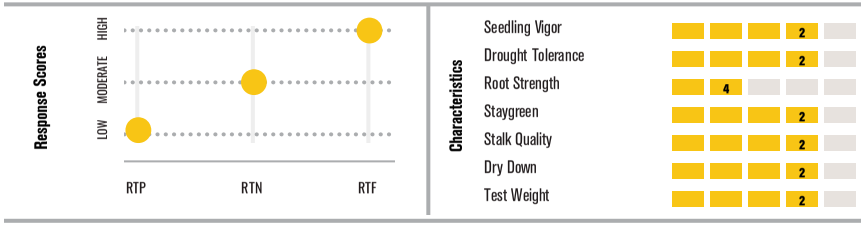
- Versatile hybrid works east to west; strong performance potential
- Great late season agronomics with strong standability
- Responds well to aggressive nitrogen fertility and fungicide application
- Works well in tough, variable or ideal yield environments

NEW

CROPLAN CP3790VT2P

VTDoublePRO RIB COMPLETE

Relative Maturity: 97



- Tall VT2P hybrid; outstanding yield potential
- Strong agronomics across the board
- Moderate response to fungicide rating, may benefit with a fungicide application
- Do not over-populate to help root development

KEY

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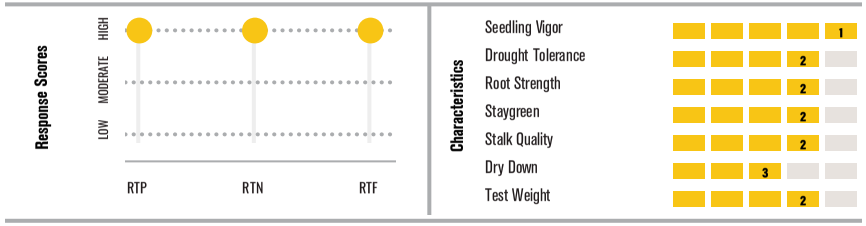
CROPLAN® corn silage hybrids that consistently perform for high-quality and high-tonnage in Answer Plot® trials.

CROPLAN CP3899VT2P

VTDoublePRO RIB COMPLETE

Relative Maturity: 98

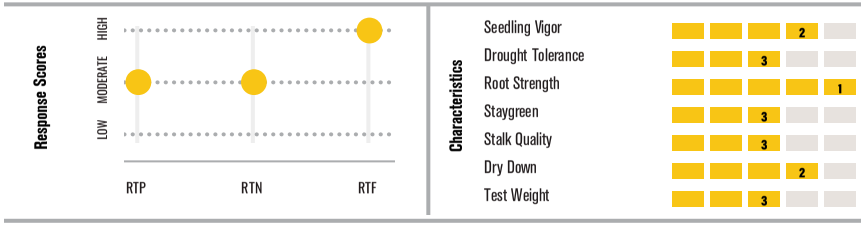


- Consistent high-yield potential across multiple environments and soil types
- Excellent seedling vigor; strong stalks, roots and drought tolerance
- High response to intensive management; can handle average acres
- Manage in areas with gray leaf spot and northern corn leaf blight

CROPLAN CP3980VT2P

VTDoublePRO RIB COMPLETE

Relative Maturity: 99

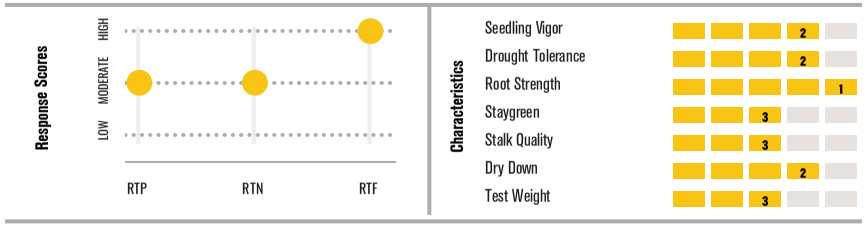


- High-yield potential hybrid that works across many acres
- Moderate management allows for versatile placement
- Acceptable stalks; can benefit from a fungicide application
- Use caution when applying growth regulator chemistries

CROPLAN CP4079VT2P

VTDoublePRO RIB COMPLETE

Relative Maturity: 100

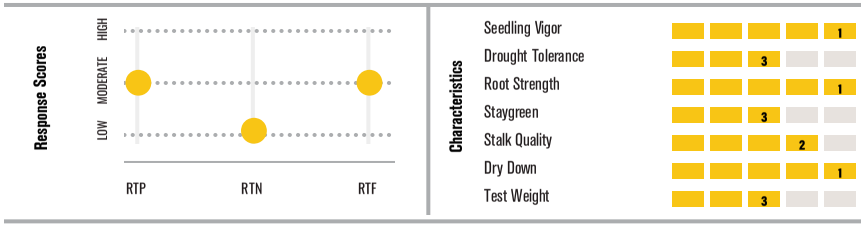


- Excellent option for all soil types and yield environments
- Medium-tall hybrid with seedling vigor; excellent roots
- Position at medium populations and manage nitrogen for high yield potential
- Strong Goss's wilt rating; acceptable test weight, stalks and staygreen

CROPLAN CP4265VT2P

VTDoublePRO RIB COMPLETE

Relative Maturity: 102



- 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

KEY

SCALE:
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5 = Not Recommended

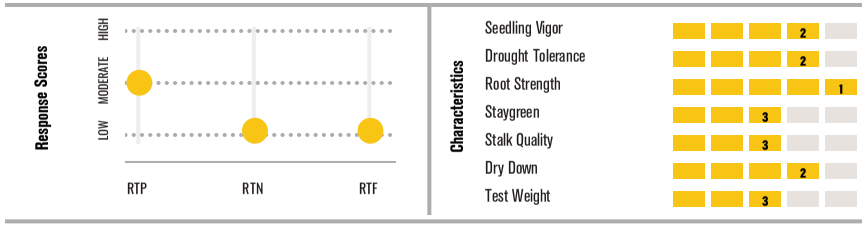
Product descriptions and ratings are generated from Answer Plot® trials and/or from the genetics supplier and my change as additional data is gathered.

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

CROPLAN CP4822VT2P

VTDoublePRO RIB COMPLETE

Relative Maturity: 103

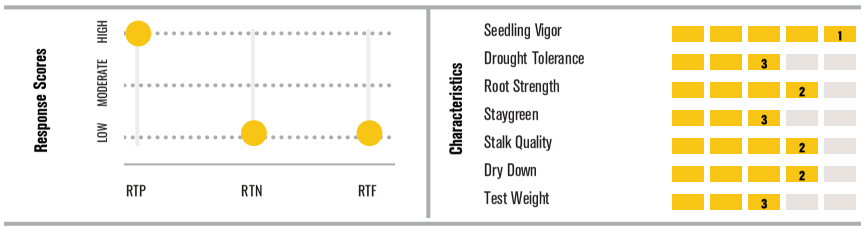


- Stress tolerance for challenging environments; flowers late
- Solid heat and drought tolerance; keep as earlier product in full-season zones
- Low response-to-nitrogen and fungicide; nice ear flex for variable populations
- Acceptable Goss's wilt tolerance

CROPLAN CP4444VT2P

VTDoublePRO RIB COMPLETE

Relative Maturity: 104

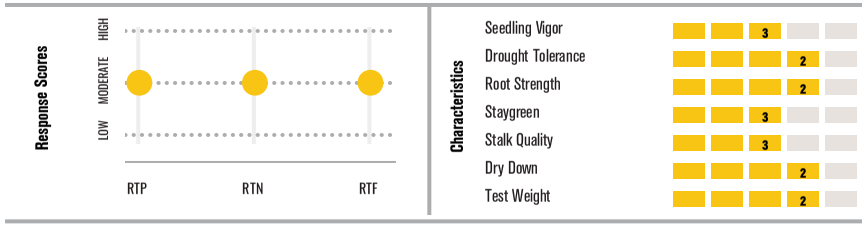


- Consistent and versatile hybrid to cover broad acres
- Excellent emergence and seedling vigor; strong stalks and roots
- Manage populations in high-yield environments
- Tall hybrid with acceptable Anthracnose rating

CROPLAN CP4757VT2P

VTDoublePRO RIB COMPLETE

Relative Maturity: 107

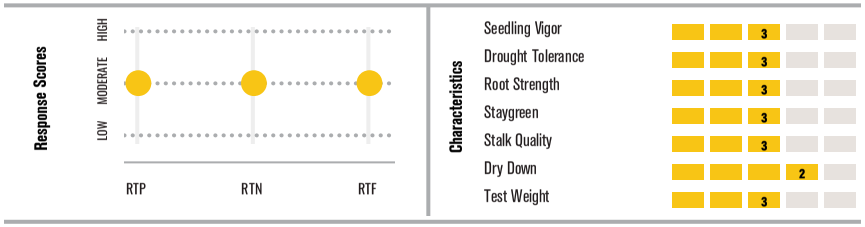


- Best performance potential on medium-to-highly-productive acres
- Strong roots and test weight with high yield potential
- Moderate response to nitrogen and fungicide offers great flexibility
- Best suited for rotated acres

CROPLAN CP4930DGVT2P

DroughtGard HYBRIDS VTDoublePRO RIB COMPLETE

Relative Maturity: 109



- Strong western adaptation; 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

KEY

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3 = Acceptable
4 = Manage
5 = Not Recommended

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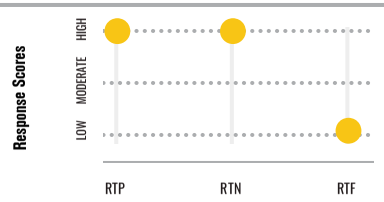
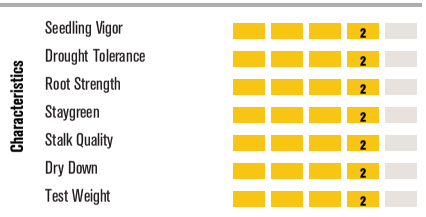
CROPLAN® corn silage hybrids that consistently perform for high-quality and high-tonnage in Answer Plot® trials.

CROPLAN CP4997VT2P

VTDoublePRO RIB COMPLETE

Relative Maturity: 109



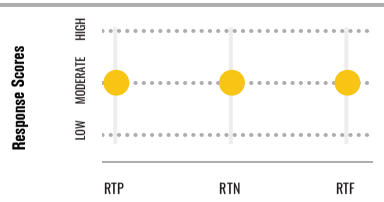


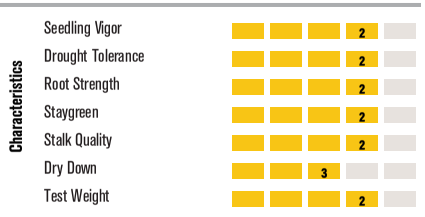
- Moves east to west; broadly adapted to soil types and yield environments
- Tall hybrid with strong stalks, roots and staygreen
- Manage nitrogen and population
- Best-suited for rotated acres; manage accordingly in corn-on-corn situations

CROPLAN CP5208VT2P

VTDoublePRO RIB COMPLETE

Relative Maturity: 112



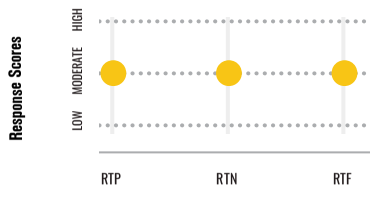


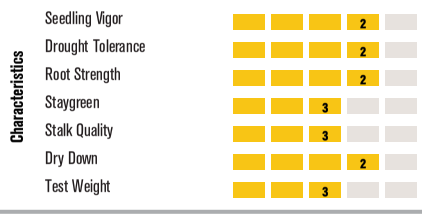
- Versatile product that can move east to west across the Corn Belt
- Flexible hybrid that can handle low-end to high-end acres
- Moderate response to fungicide, which can help with late season health

CROPLAN CP5244VT2P

VTDoublePRO RIB COMPLETE

Relative Maturity: 112



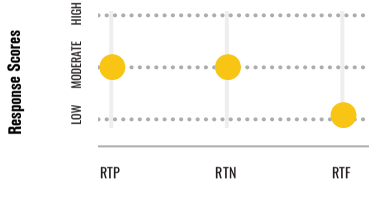


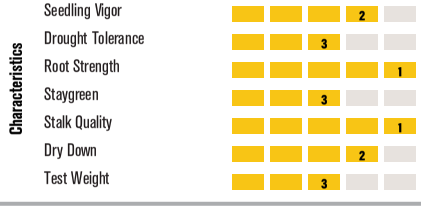
- Versatile hybrid with high-yield potential
- Strong root system and drought tolerance
- Responds to additional fungicide and nitrogen management, but not required
- Manage for greensnap in susceptible areas

CROPLAN CP5340VT2P

VTDoublePRO

Relative Maturity: 113





- 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

KEY

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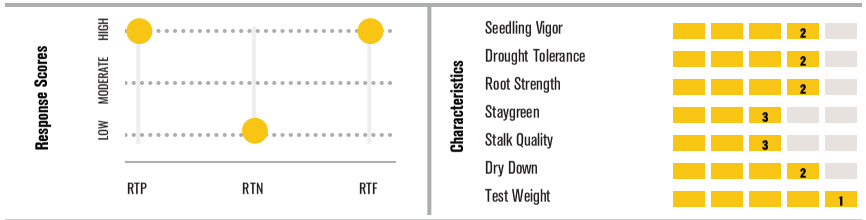
CROPLAN® corn silage hybrids that consistently perform for high-quality and high-tonnage in Answer Plot® trials.

CROPLAN CP5497VT2P

VTDoublePRO RIB COMPLETE

Relative Maturity: 114

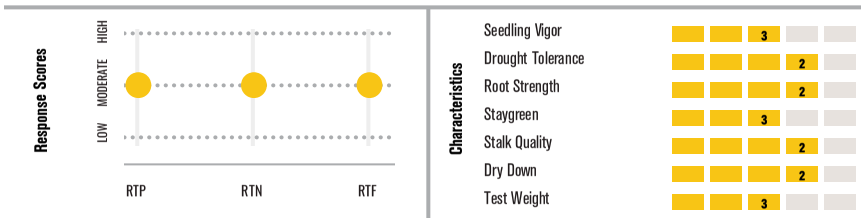


- Widely adapted east to west across multiple soil types and yield levels
- Strong roots and drought tolerance with excellent test weight
- Semi-flex ear and high response-to-population score allow positioning across yield environments
- Manage fields with history of Anthracnose and southern rust

CROPLAN CP5550VT2P

VTDoublePRO RIB COMPLETE

Relative Maturity: 115

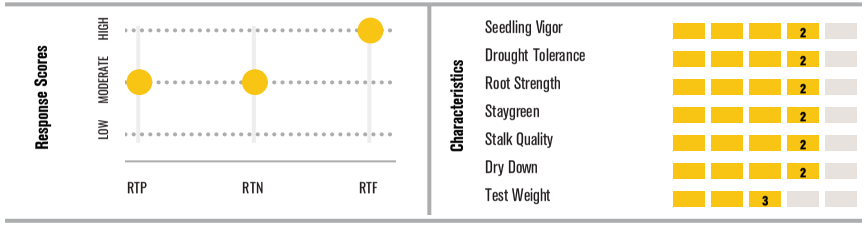


- Position in average-to-high-yield potential acres; dual purpose option
- Solid agronomic and disease package
- Keep plant densities moderate to high
- Acceptable Goss's wilt tolerance

CROPLAN CP5588DGVT2P

DroughtGard HYBRIDS VTDoublePRO RIB COMPLETE

Relative Maturity: 115

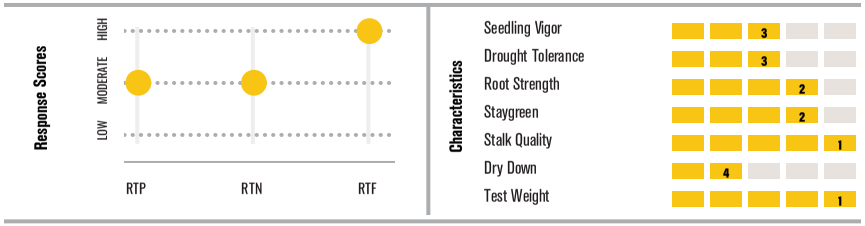


- Best performance in the central and eastern Corn Belt
- Top end yield potential with very good stress tolerance
- Excellent dual purpose silage potential
- Use caution in high Physoderma regions

CROPLAN CP5717VT2P

VTDoublePRO RIB COMPLETE

Relative Maturity: 117



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

KEY

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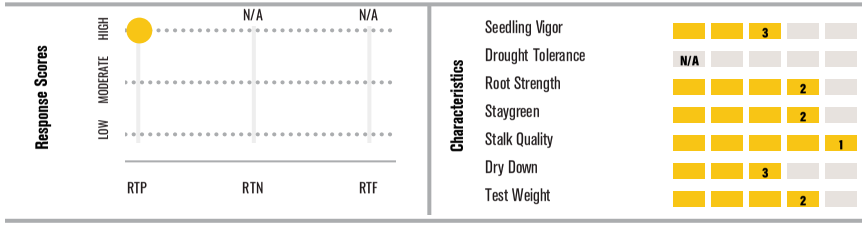
CROPLAN® corn silage hybrids that consistently perform for high-quality and high-tonnage in Answer Plot® trials.

NEW

CROPLAN CP4839PCE

Relative Maturity: 108

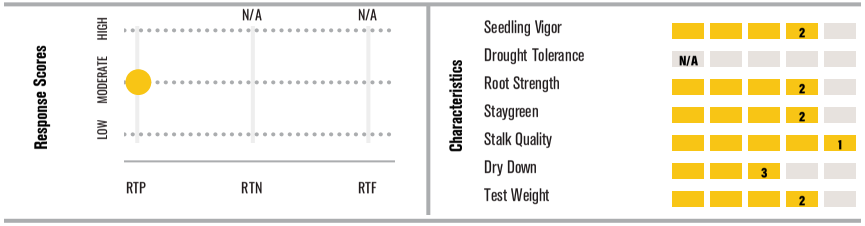


- New PowerCore Enlist that works east to west
- Strong agronomics, drought tolerance and intactness
- Handles tough acres
- Strong Goss's wilt tolerance

NEW

CROPLAN CP5329PCE

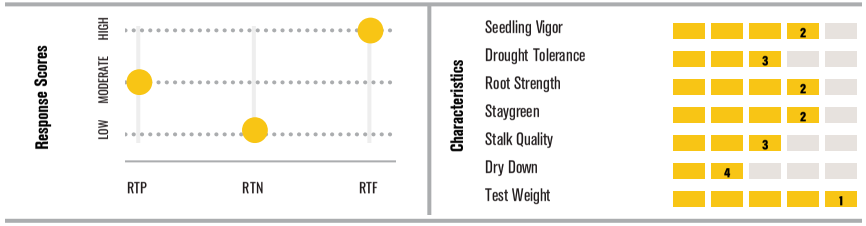
Relative Maturity: 113



- Broadly adapted east to west across soil types and yield levels
- Strong emergence; very good late-season stalks and plant integrity
- Good ear flex that allows for moderate planting populations
- Fungicide recommended in areas with southern rust concerns

CROPLAN CP184RR

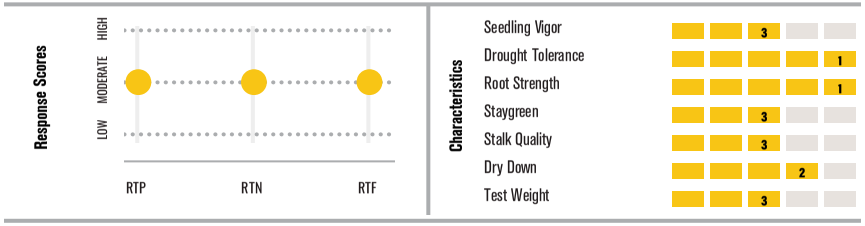
Relative Maturity: 86



- 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

CROPLAN CP2520RR

Relative Maturity: 86



- 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

KEY

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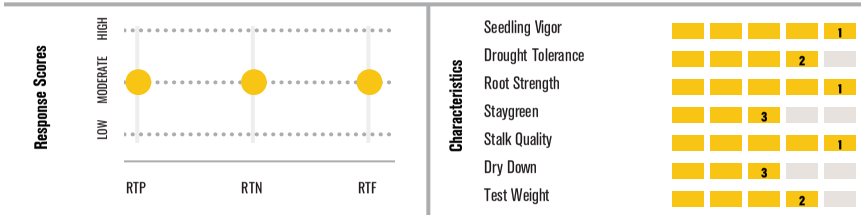
CROPLAN® corn silage hybrids that consistently perform for high-quality and high-tonnage in Answer Plot® trials.

CROPLAN CP3699RR

Relative Maturity: 96

Roundup Ready 2 Corn



Characteristics	
Seedling Vigor	1
Drought Tolerance	2
Root Strength	1
Staygreen	3
Stalk Quality	1
Dry Down	3
Test Weight	2

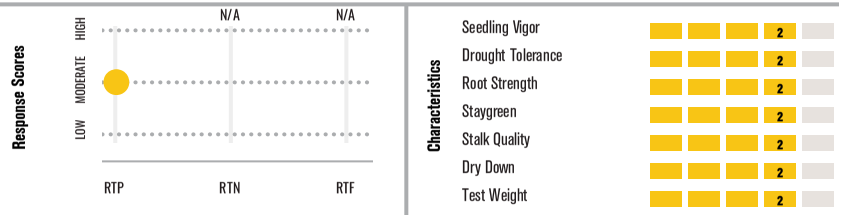
- Adaptable across most soil types; moves into low-yield environments
- Consistent hybrid handles stress well with excellent emergence, roots and stalks
- Moderate response-to scores provide versatility for positioning and management

NEW

CROPLAN CP4083VT4P

Relative Maturity: 100

VT4PRO



Characteristics	
Seedling Vigor	2
Drought Tolerance	2
Root Strength	2
Staygreen	2
Stalk Quality	2
Dry Down	2
Test Weight	2

- High-yield potential for productive soils; good stress tolerance for tougher acres
- Strong early vigor for early planting; strong stalks late into season
- Good ear flex; responds to fungicide and nitrogen management
- Acceptable Goss's wilt tolerance; manage in high pressure areas

KEY

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

CORN

	BRAND	Relative Maturity	Response to Population [RTP] (1)	Response to Nitrogen [RTN] (1)	Response to Fungicide [RTF] (1)	GDU to Maturity **	GDU to Mid-pollination**	Flower Date (5)	Plant Height (2)	Ear Height (3)	Cob Color	Ear Flex (4)	Kernel Rows	Seedling Vigor	Stalk Quality	Root Strength	Stay green (6)	Dry down	Drought Tolerance	Test Weight	Gray Leaf Spot	NCLB	SCLB	Common Rust	Southern Rust	Goss's Wilt	Anthracnose Stalk Rot	Physoderma Node Breakage	Diplodia Ear Rot
	SmartStax® PRO																												
	CP3715SSPRO*	97	M	M	M	2425	1242	M-E	M-T	M-H	Red	SF	18-20	2	2	2	2	2	2	3	4	2	2	2	4	2	2	2	4
NEW	CP4024SSPRO*	100	H	M	H	2500	1270	M	M	M	Red	SF	16-18	2	2	2	3	2	2	3	3	2	2	2	4	3	2	2	2
	CP4652SSPRO*	106	L	H	M	2625	1311	M	M-T	H	Red	SF	14-16	2	2	2	2	3	2	3	4	3	2	2	4	2	2	2	3
NEW	CP4917SSPRO*	109	L	M	H	2725	1325	M-E	T	M-H	Red	SF	14-16	2	2	2	3	2	2	3	2	2	2	2	3	2	2	2	2
NEW	CP5320SSPRO*	113	M	H	M	2825	1360	M-L	T	H	Red	SF	16-18	2	2	2	3	2	2	3	3	2	1	2	2	2	1	2	2
	VT4PRO™																												
NEW	CP4083VT4P*	100	M	NA	NA	2490	1270	M	M	M	Red	SF	16-18	2	2	2	2	2	2	2	3	3	2	2	4	3	2	2	2
	SmartStax®																												
	CP2585SS* [VT2P]*	85	M	M	M	2125	1120	M	M	M	Red	SF	16-18	2	2	2	2	3	3	3	4	3	2	2	2	3	2	2	2
	CP2845SS* [VT2P]*	89	H	H	H	2210	1150	E	M-T	M	Red	SF	16-18	1	2	1	3	1	1	3	NA	3	NA	3	NA	4	4	NA	NA
	CP3399SS*	94	M	H	M	2350	1220	M	M	M	Red	SF	16-18	2	2	2	2	2	2	2	3	3	NA	3	NA	4	3	NA	NA
NEW	CP3519SS*	95	M	M	M	2380	1235	M	M-T	M-H	Red	SF	16-18	2	2	2	2	2	2	2	4	2	2	2	4	3	1	2	2
	CP3735SS* [VT2P]*	97	M	H	H	2425	1250	M	M	M	Red	SD	16-18	1	2	2	2	2	3	1	3	3	NA	NA	4	3	3	3	NA
	CP4099SS*	100	H	H	H	2500	1290	L	M-T	M	Pink	SF	16-20	1	2	1	3	3	2	3	4	4	NA	3	NA	3	3	NA	NA
	CP4188SS* [VT2P*, CONV]	101	M	M	M	2490	1280	M	M	M	Red	SF	16-18	1	1	1	1	3	2	1	3	2	NA	NA	NA	2	3	NA	NA
NEW	CP4246SS*	102	M	H	H	2550	1290	M	M-T	M	Red	SF	16-18	2	2	2	3	2	3	2	3	3	2	2	4	2	1	2	3
	CP4676SS*	106	M	H	M	2650	1310	M	M	M	Pink	SF	16-18	1	3	3	2	1	3	1	3	2	2	NA	2	3	1	NA	2
NEW	CP4770SS*	107	M	H	H	2675	1340	L	MT	M	Red	SD	16-18	3	3	3	3	2	2	2	3	2	NA	NA	NA	1	NA	NA	NA
	CP4880SS*	108	H	M	H	2700	1330	M	M-S	M	Red	SD	14-16	2	2	2	3	3	3	2	3	3	2	NA	4	3	3	3	NA
	CP5073SS* [VT2P]*	110	M	H	M	2730	1340	M	M	M-H	Red	SF	16-18	1	3	2	2	2	2	3	3	2	1	NA	4	3	3	NA	NA

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CROPLAN®

CORN

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SmartStax® (Continued)																												
CP5115SS* [VT2P]*	111	H	H	M	2775	1350	M-L	M-T	M-H	Red	SF	18-20	1	2	1	3	3	2	1	3	2	3	NA	NA	4	3	5	3
NEW CP5132SS*	111	M	M	M	2775	1340	M-E	T	M-H	Red	SD	14-16	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	3
CP5210SS*	112	M	H	H	2790	1340	M	M-T	M-H	Red	SF	16-18	1	3	3	3	3	3	3	3	2	2	NA	4	2	3	3	NA
CP5335SS* [VT2P]*	113	M	H	M	2820	1350	M	M	M	Pink	SF	16-18	2	1	2	2	2	2	1	3	2	2	NA	3	2	2	NA	2
CP5370SS* [VT2P]*	113	H	H	M	2830	1370	M	T	M-H	Pink	SF	18-20	1	1	1	1	2	2	1	3	2	2	3	3	4	2	NA	NA
CP6594SS* [VT2P]*	113	M	M	M	2810	1350	M	M	M	Red	SF	16-18	2	1	1	2	2	2	2	3	3	2	2	NA	3	3	NA	3
CP5678SS* [VT2P, RR]*	116	M	H	M	2900	1360	M	M	M	Red	SF	14-16	2	2	3	3	3	2	1	3	2	2	NA	3	3	3	3	3
Duracade™																												
CP2692D	86	M	M	M	2160	1140	M	M-T	M	Red	SF	16-18	2	1	1	1	3	NA	3	NA	1	NA	1	NA	1	NA	NA	NA
Trecepta®																												
CP3852TRE*	98	M	M	H	2450	1275	L	M-T	M-H	Red	FL	16-18	2	2	2	2	2	2	3	3	3	NA	NA	NA	2	NA	NA	NA
CP4516TRE*	105	M	M	H	2650	1309	M-E	M	M	Red	SF	16-18	2	3	2	2	2	3	2	3	3	2	2	3	2	2	2	3
NEW CP4840TRE*	108	M	L	H	2700	1330	M	MT	M	Red	SF	18-20	3	2	2	2	2	NA	2	3	3	NA	NA	NA	3	NA	NA	NA
NEW CP5363TRE*	113	M	M	H	2825	1370	M-L	M-T	M	Red	SF	16-18	1	2	2	2	2	2	2	3	2	2	2	3	3	1	1	3
NEW CP5682TRE*	116	M	H	H	2900	1380	M-L	M-T	M-H	Red	SF	16-18	2	2	2	2	2	2	2	2	2	2	2	3	3	2	2	3
CP5760TRE*	117	L	H	M	2925	1370	NA	T	M-H	Pink	SF	16-18	2	3	3	3	2	3	2	3	3	2	NA	4	3	2	NA	NA
CP5893TRE* [RR]	118	M	M	M	3000	1385	L	M	M-L	Red	SF	18-20	1	2	2	1	3	2	1	2	2	1	2	2	3	2	2	4
VT Double PRO®																												
CP2180VT2P*	81	M	M	M	2025	1070	M-E	M	M	Red	SD	18-20	2	2	2	3	2	3	3	NA	2	NA	NA	NA	3	3	NA	NA
CP2288VT2P*	82	H	H	M	2065	1090	M	M	M	Red	SF	16-18	2	2	1	2	2	2	1	NA	2	NA	NA	4	2	3	NA	NA

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VT Double PRO® (Continued)																												
CP2315VT2P*	83	M	H	M	2075	1085	E	M-T	M	Red	SF	18-20	2	3	2	3	2	2	3	3	3	NA	2	NA	3	4	NA	NA
NEW CP2324VT2P*	83	M	M	M	2075	1100	M	M	M	Pink	SF	16-18	2	2	2	3	2	2	4	4	3	2	2	4	2	2	2	3
CP2790VT2P*	87	L	H	H	2175	1130	E	M	M	Red	SF	16-18	1	3	2	3	2	1	2	3	2	2	NA	4	4	3	NA	2
CP2851VT2P*	88	M	M	M	2200	1160	M	M	M	Red	SD	16-18	3	2	2	3	2	3	2	3	3	3	NA	NA	3	3	NA	NA
CP2965VT2P*	89	M	H	H	2235	1180	M-L	M	M	Red	SF	14-16	1	1	2	3	2	2	2	3	3	1	NA	4	3	2	NA	NA
NEW CP3143VT2P*	91	L	H	M	2290	1200	M-L	M-T	M-H	Red	SF	18-20	2	2	2	2	3	2	2	4	3	2	2	4	3	3	1	3
CP3166VT2P*	91	H	M	M	2270	1180	E	M	M	Red	SF	16-18	2	3	3	3	1	2	3	3	3	NA	NA	3	3	2	NA	NA
CP3314VT2P*	93	M	L	M	2330	1210	M	M	M	Red	FL	16-18	2	2	2	2	2	2	2	3	3	NA	3	NA	4	NA	NA	NA
NEW CP3330aVT2P*	93	M	L	L	2320	1210	M	M-T	M-H	Red	SF	16-18	2	1	2	2	2	2	2	3	3	2	2	4	2	1	2	3
CP3337VT2P* [RR]	93	M	M	M	2310	1190	E	M	M	Red	FL	16-18	2	3	1	3	2	1	2	4	2	4	2	NA	5	3	NA	NA
CP3490VT2P*	94	M	M	H	2360	1230	M-L	M-T	M-H	Red	SF	18-20	1	3	3	3	3	2	3	3	3	NA	NA	3	3	3	3	NA
CP3575VT2P*	95	H	H	M	2360	1240	M-L	M	M	Red	SF	16-18	2	2	2	2	2	3	1	3	2	NA	NA	3	4	1	NA	NA
CP3724VT2P*	97	M	H	H	2435	1250	M	M-T	M	Red	SF	16-18	2	2	2	2	3	2	2	2	3	NA	NA	NA	2	2	NA	NA
NEW CP3790VT2P*	97	L	M	H	2440	1260	M-L	T	M-H	Red	SF	16-18	2	2	4	2	2	2	2	4	3	2	2	3	2	3	5	4
CP3899VT2P*	98	H	H	H	2450	1280	L	M-T	M-H	Pink	SF	16-20	1	2	2	2	3	2	2	4	4	NA	3	NA	3	3	NA	NA
CP3980VT2P*	99	M	M	H	2475	1270	M	M-T	M-H	Red	SF	14-16	2	3	1	3	2	3	3	2	NA	NA	NA	NA	3	3	4	NA
CP4079VT2P*	100	M	M	H	2480	1280	M	M-T	M	Red	SF	14-16	2	3	1	3	2	2	3	3	3	2	NA	NA	2	3	NA	NA
CP4265VT2P*	102	M	L	M	2550	1300	M-L	M	M	Red	SD	16-18	1	2	1	3	1	3	3	3	3	2	NA	3	2	3	5	3
CP4822VT2P*	103	M	L	L	2575	1310	L	M	M-H	Red	SF	16-18	2	3	1	3	2	2	3	3	2	NA	3	NA	3	3	NA	NA
CP4444VT2P*	104	H	L	L	2580	1300	M	T	M-H	Red	SF	14-16	1	2	2	3	2	3	3	3	3	2	NA	3	3	3	3	3

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VT Double PRO® (Continued)																												
CP4757VT2P*	107	M	M	M	2675	1320	M	M	M-H	Red	SD	18-20	3	3	2	3	2	2	2	3	2	NA	NA	3	3	3	3	NA
CP4930DGVT2P*	109	M	M	M	2725	1330	M	M-T	M-H	Red	SF	14-16	3	3	3	3	2	3	3	3	3	2	NA	3	2	3	3	NA
CP4997VT2P*	109	H	H	L	2725	1330	M	T	M-H	Red	SF	16-18	2	2	2	2	2	2	2	3	2	2	3	4	2	2	3	2
CP5208VT2P*	112	M	M	M	2800	1348	NA	M	M	Red	SF	16-18	2	2	2	2	3	2	2	3	2	2	NA	2	2	2	NA	NA
CP5244VT2P*	112	M	M	M	2800	1360	M-L	M-T	M-H	Red	SF	16-18	2	3	2	3	2	2	3	3	2	2	NA	4	3	3	3	NA
CP5340VT2P	113	M	M	L	2825	1350	M	M-S	M	Red	FL	16-20	2	1	1	3	2	3	3	3	2	2	3	NA	4	3	NA	4
CP5497VT2P*	114	H	L	H	2850	1350	M-E	M-T	M-H	Red	SF	14-16	2	3	2	3	2	2	1	2	3	2	NA	3	3	4	4	NA
CP5550VT2P*	115	M	M	M	2850	1360	M	M	M	Pink	SF	14-16	3	2	2	3	2	2	3	3	3	2	NA	4	3	1	NA	3
CP5588DGVT2P*	115	M	M	H	2875	1360	M	M-T	M-H	Red	SD	16-18	2	2	2	2	2	2	3	3	3	2	NA	NA	3	3	5	3
CP5717VT2P*	117	M	M	H	2925	1366	M	M-T	M-H	Red	FL	18-20	3	1	2	2	4	3	1	2	2	3	NA	NA	3	NA	NA	NA
PowerCore® Enlist®																												
NEW CP4839PCE*	108	H	NA	NA	2700	1350	L	MT	M	Pink	SF	16-20	3	1	2	2	3	NA	2	2	2	NA	2	4	2	1	NA	2
NEW CP5329PCE*	113	M	NA	NA	2825	1355	M	MT	M	Pink	SF	16-18	2	1	2	2	3	NA	2	2	2	NA	2	3	3	1	NA	3
Roundup Ready® 2 Technology																												
CP184RR	80	M	L	H	2000	1040	E	M-T	M	Pink	FL	16-18	2	3	2	2	4	3	1	NA	3	NA	3	NA	5	NA	NA	NA
CP2520RR	86	M	M	M	2125	1120	M	M-T	M	Red	SF	16-20	3	3	1	3	2	1	3	3	3	NA	3	NA	4	NA	NA	NA
CP3699RR	96	M	M	M	2400	1240	M	M-T	M-H	Red	SF	16-18	1	1	1	3	3	2	2	3	3	NA	3	NA	3	3	NA	NA

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CORN

Product Name

Attributes

Placement

Product Name

Attributes

Placement

Product Name

Attributes

Placement

Soybean

DELIVERING HIGH PERFORMING GENETICS IS OUR DECLARATION OF INDEPENDENCE.

DISEASE & INSECT PROTECTION FOR SOYBEANS

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

Warden® CX II Features and Benefits

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

- Combination of Vayantis® (Picarbutrazox), a novel A.I., and the highest labeled rate of Mefanoxam commercially available for unprecedented control of Pythium and Phytophthora (including metalaxyl-resistant Pythium).
- Sedaxane (Vibrance®) for Rhizoctonia protection.
- Fludioxonil for protection from Fusarium.
- Includes active ingredient in Cruiser® insecticide (Thiamethoxam) with proven Cruiser® Vigor Effect for healthier, robust root system. Cruiser® provides protection against an array of seed- and foliar-feeding insects.
- A convenient premix formulation at a low use rate that allows for easier application and room to add products to your total seed treatment offer.
- Extra colorant and polymer providing a more vivid red color, plus improved flowability and handling at the planter, leading to better stand counts and yield potential.

WHY WINPAK® SOYBEAN VARIETIES?

WinPak®

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

EXAMPLE OF HOW A WINPAK VARIETY CAN BE FORMULATED

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

SOYBEAN HERBICIDE TOLERANCE AND WEED CONTROL

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

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

CROPLAN

Soybean

CROPLAN® TRAIT LETTERING FOR SOYBEAN VARIETIES

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

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

NEW

CROPLAN CP00545XF

XTENDFLEX SOYBEANS

Group: 0.05

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

Characteristics	
PRR Tolerance	2
SDS Tolerance	N/A
SWM Tolerance	2
BSR Tolerance	N/A
Iron Chlorosis	2

- Earliest XtendFlex® soybean in CROPLAN® lineup
- Strong PRR package for poorly drained soils
- Strong IDC tolerance

CROPLAN CP00840XF

XTENDFLEX SOYBEANS WinPak®

Group: 0.08

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

Characteristics	
PRR Tolerance	2
SDS Tolerance	N/A
SWM Tolerance	3
BSR Tolerance	2
Iron Chlorosis	3

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

CROPLAN CP00944XF

XTENDFLEX SOYBEANS

Group: 0.09

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

Characteristics	
PRR Tolerance	2
SDS Tolerance	N/A
SWM Tolerance	4
BSR Tolerance	2
Iron Chlorosis	2

- Also available in WinPak® variety CP00840XF
- Solid defensive characteristics for tougher environments
- Top end yield potential with a taller plant type to aid movement onto lighter soil types
- Lower populations; use caution in heavy white mold environments

CROPLAN CP0244XF

XTENDFLEX SOYBEANS

Group: 0.2

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

Characteristics	
PRR Tolerance	3
SDS Tolerance	N/A
SWM Tolerance	2
BSR Tolerance	2
Iron Chlorosis	1

- High yield potential combined with a solid defensive package for tough soils
- Excellent IDC tolerance
- Overall good defensive package; good plant size for lighter soil types
- Use caution in the heaviest PRR areas

KEY

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

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UPGRADED

CROPLAN CP0440XF

TENDFLEX SOYBEANS WinPak

Group: 0.4

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

Characteristics

PRR Tolerance	2
SDS Tolerance	N/A
SWM Tolerance	3
BSR Tolerance	N/A
Iron Chlorosis	2

- WinPak® variety consisting of CP0444XF and CP0555XF
- Genetically diverse WinPak variety; excellent yield potential
- Strong IDC and strong PRR for poorly drained soils
- Acceptable SWM tolerance

CROPLAN CP0542XF

TENDFLEX SOYBEANS

Group: 0.5

Height	MT
Canopy Type	Int/Bush
Emergence	2
Standability	3
BSR Tolerance	4

Characteristics

PRR Tolerance	3
SDS Tolerance	3
SWM Tolerance	3
BSR Tolerance	4
Iron Chlorosis	4

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

CROPLAN CP0740XF

TENDFLEX SOYBEANS WinPak

Group: 0.7

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

Characteristics

PRR Tolerance	2
SDS Tolerance	N/A
SWM Tolerance	3
BSR Tolerance	1
Iron Chlorosis	2

- WinPak® variety consisting of CP0744XF and CP0751XF
- Strong IDC and PRR tolerance
- Solid yield potential and strong defensive characteristics for versatile placement

UPGRADED

CROPLAN CP0940XF

TENDFLEX SOYBEANS WinPak

Group: 0.9

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

Characteristics

PRR Tolerance	2
SDS Tolerance	N/A
SWM Tolerance	2
BSR Tolerance	3
Iron Chlorosis	2

- WinPak® variety consisting of CP0955XF and CP1042XF
- Versatile placement across soil types and yield levels
- Strong SWM tolerance and PRR tolerance
- Upgraded yield potential and standability over last year's CP0940XF

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 my change as additional data is gathered.

CROPLAN CP1240XF

TENDFLEX SOYBEANS WinPak®

Group: 1.2

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

Characteristics

PRR Tolerance	2
SDS Tolerance	3
SWM Tolerance	2
BSR Tolerance	1
Iron Chlorosis	2

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

UPGRADED

CROPLAN CP1540XF

TENDFLEX SOYBEANS WinPak®

Group: 1.5

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

Characteristics

PRR Tolerance	2
SDS Tolerance	3
SWM Tolerance	2
BSR Tolerance	2
Iron Chlorosis	3

- WinPak® variety consisting of CP1443XF and CP1545XF
- Genetically diverse WinPak variety; excellent yield potential and stress tolerance
- Strong PRR and SWM tolerance
- Acceptable IDC tolerance

CROPLAN CP1742XF

TENDFLEX SOYBEANS

Group: 1.7

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

Characteristics

PRR Tolerance	2
SDS Tolerance	2
SWM Tolerance	2
BSR Tolerance	1
Iron Chlorosis	1

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

CROPLAN CP1840XF

TENDFLEX SOYBEANS WinPak®

Group: 1.8

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

Characteristics

PRR Tolerance	2
SDS Tolerance	2
SWM Tolerance	2
BSR Tolerance	1
Iron Chlorosis	2

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

KEY

SCALE:
1 = Excellent
2 = Strong
3 = Acceptable
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5 = Not Recommended

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CROPLAN CP2054XF

TENDFLEX SOYBEANS

Group: 2

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

Characteristics

PRR Tolerance	2
SDS Tolerance	2
SWM Tolerance	2
BSR Tolerance	1
Iron Chlorosis	3

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

CROPLAN CP2340XF

TENDFLEX SOYBEANS WinPak®

Group: 2.3

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

Characteristics

PRR Tolerance	3
SDS Tolerance	2
SWM Tolerance	3
BSR Tolerance	4
Iron Chlorosis	2

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

UPGRADED

CROPLAN CP2540XF

TENDFLEX SOYBEANS WinPak®

Group: 2.5

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

Characteristics

PRR Tolerance	2
SDS Tolerance	3
SWM Tolerance	3
BSR Tolerance	1
Iron Chlorosis	2

- Upgraded WinPak® variety that consists of CP2543XF and CP2545XF
- Excellent product from West to East with proven genetic backgrounds
- Strong IDC tolerance; acceptable SDS protection
- Manage for SWM in susceptible environments

CROPLAN CP2743XF

TENDFLEX SOYBEANS

Group: 2.7

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

Characteristics

PRR Tolerance	2
SDS Tolerance	2
SWM Tolerance	5
BSR Tolerance	N/A
Iron Chlorosis	3

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

KEY

SCALE:
1 = Excellent
2 = Strong
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5 = Not Recommended

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UPGRADED

CROPLAN CP2840XF

TENDFLEX SOYBEANS WinPak®

Group: 2.8

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

Characteristics	
PRR Tolerance	2
SDS Tolerance	2
SWM Tolerance	5
BSR Tolerance	N/A
Iron Chlorosis	3

- Upgraded WinPak® variety that consists of CP2743XF and CP2845XF
- High yield variety that can move east to west
- Strong SDS and excellent emergence allows broad placement
- Manage on SWM acres

NEW

CROPLAN CP3250XF

TENDFLEX SOYBEANS WinPak®

Group: 3.2

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

Characteristics	
PRR Tolerance	2
SDS Tolerance	2
SWM Tolerance	3
BSR Tolerance	1
Iron Chlorosis	4

- WinPak® variety consisting of CP3425XF and CP3345XF
- Works well east to west
- Strong SDS tolerance and standability

CROPLAN CP3550XF

TENDFLEX SOYBEANS WinPak®

Group: 3.5

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

Characteristics	
PRR Tolerance	3
SDS Tolerance	3
SWM Tolerance	3
BSR Tolerance	2
Iron Chlorosis	3

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

CROPLAN CP3753XF

TENDFLEX SOYBEANS

Group: 3.7

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

Characteristics	
PRR Tolerance	3
SDS Tolerance	2
Frogeye Leaf spot	1
Southern Stem Canker	1
Root-Knot Nematode	N/A

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

KEY

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NEW

CROPLAN CP3845XFS

XTENDFLEX SOYBEANS

Group: 3.8

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

Characteristics

PRR Tolerance	3
SDS Tolerance	2
Frogeye Leaf spot	2
Southern Stem Canker	1
Root-Knot Nematode	N/A

- Broadly adapted east to west
- Very good standability and SDS
- Excluder with STS

NEW

CROPLAN CP4145XFS

XTENDFLEX SOYBEANS

Group: 4.2

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

Characteristics

PRR Tolerance	3
SDS Tolerance	2
Frogeye Leaf spot	4
Southern Stem Canker	1
Root-Knot Nematode	5

- Standalone variety that brings top end yield potential across soil types and yield environments
- Performs well on light sands to heavy clays while mantaining height
- Very good standability and SDS tolerance
- Seed treatment recommended for additional PRR control

NEW

CROPLAN CP4545XFS

XTENDFLEX SOYBEANS

Group: 4.5

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

Characteristics

PRR Tolerance	1
SDS Tolerance	4
Frogeye Leaf spot	1
Southern Stem Canker	1
Root-Knot Nematode	5

- Standalone XtendFlex® variety with strong yield stability across environments
- Well suited for most all soil types and drainage classes
- Excellent standability and PRR tolerance; strong IDC tolerance
- Manage in high SDS areas

CROPLAN CP4541XFS

XTENDFLEX SOYBEANS

Group: 4.6

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

Characteristics

PRR Tolerance	3
SDS Tolerance	2
Frogeye Leaf spot	N/A
Southern Stem Canker	1
Root-Knot Nematode	5

- 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

KEY

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NEW

CROPLAN CP4845XFS

XTENDFLEX SOYBEANS

Group: 4.8

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

Characteristics

PRR Tolerance	2
SDS Tolerance	4
Frogeye Leaf spot	3
Southern Stem Canker	1
Root-Knot Nematode	3

- Exciting, new standalone variety that brings high yield potential
- Broad acre fit, from light sands to heavy soil types
- Excellent emergence and early season vigor; excluder for high salt scenarios
- Manage in high SDS areas

CROPLAN CP00312X

ROUNDUP READY 2 XTEND SOYBEANS

Group: 0.03

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

Characteristics

PRR Tolerance	1
SDS Tolerance	N/A
SWM Tolerance	2
BSR Tolerance	N/A
Iron Chlorosis	2

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

CROPLAN CP00824E

Enlist E3 SOYBEANS

Group: 0.08

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

Characteristics

PRR Tolerance	1
SDS Tolerance	N/A
SWM Tolerance	3
BSR Tolerance	5
Iron Chlorosis	2

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

CROPLAN CP0124E

Enlist E3 SOYBEANS

Group: 0.1

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

Characteristics

PRR Tolerance	1
SDS Tolerance	N/A
SWM Tolerance	2
BSR Tolerance	1
Iron Chlorosis	2

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

KEY

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NEW

CROPLAN CP0325E

Enlist E3 SOYBEANS

Group: 0.3

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

Characteristics

PRR Tolerance	1
SDS Tolerance	N/A
SWM Tolerance	3
BSR Tolerance	1
Iron Chlorosis	2

- Versatile soybean for offensive to defensive acres
- Strong IDC for IDC-prone soils
- Excellent PRR tolerance for poorly drained soils

UPGRADED

CROPLAN CP0530E

Enlist E3 SOYBEANS WinPak®

Group: 0.5

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

Characteristics

PRR Tolerance	2
SDS Tolerance	3
SWM Tolerance	3
BSR Tolerance	2
Iron Chlorosis	1

- WinPak® variety consisting of CP0525E and CP0534E
- Genetically diverse WinPak variety; excellent IDC tolerance
- Strong PRR package for poorly drained soils and two SCN gene sources
- Agronomically sound variety with no major watchouts

CROPLAN CP0820E

Enlist E3 SOYBEANS WinPak®

Group: 0.8

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

Characteristics

PRR Tolerance	2
SDS Tolerance	N/A
SWM Tolerance	3
BSR Tolerance	N/A
Iron Chlorosis	2

- WinPak® variety consisting of CP0822E and CP0824E
- Offers versatility to handle offensive environments to stress-prone areas
- Strong IDC and PRR tolerance

NEW

CROPLAN CP0925E

Enlist E3 SOYBEANS

Group: 0.9

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

Characteristics

PRR Tolerance	4
SDS Tolerance	3
SWM Tolerance	3
BSR Tolerance	3
Iron Chlorosis	1

- Excellent IDC variety for hot IDC areas
- Stacked PRR genes for poorly drained soils
- Solid yield potential with strong standability

KEY

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UPGRADED

CROPLAN CP1130E

Enlist E3 SOYBEANS WinPak®

Group: 1.1

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

Characteristics

PRR Tolerance	2
SDS Tolerance	3
SWM Tolerance	3
BSR Tolerance	2
Iron Chlorosis	2

- WinPak® variety consisting of CP1123E and CP1225E
- Excellent yield potential with improved IDC tolerance over last year's version
- Peking x Peking WinPak variety for acres with soybean cyst nematode
- Acceptable SWM and SDS tolerance

NEW

CROPLAN CP1125E

Enlist E3 SOYBEANS

Group: 1.2

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

Characteristics

PRR Tolerance	2
SDS Tolerance	3
SWM Tolerance	2
BSR Tolerance	1
Iron Chlorosis	2

- Exciting new single line soybean variety with improved agronomics and high yield potential
- Versatile soybean that works from East to West
- Strong PRR, IDC, SWM tolerance; excellent BSR tolerance

NEW

CROPLAN CP1425E

Enlist E3 SOYBEANS

Group: 1.4

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

Characteristics

PRR Tolerance	1
SDS Tolerance	3
SWM Tolerance	2
BSR Tolerance	N/A
Iron Chlorosis	1

- Also available in WinPak® variety CP1430E
- Excellent IDC variety for IDC-prone areas
- Excellent PRR tolerance for poorly drained soils

UPGRADED

CROPLAN CP1430E

Enlist E3 SOYBEANS WinPak®

Group: 1.4

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

Characteristics

PRR Tolerance	1
SDS Tolerance	3
SWM Tolerance	3
BSR Tolerance	N/A
Iron Chlorosis	2

- WinPak® variety consisting of CP1425E and CP1522E
- Upgraded yield potential and IDC tolerance
- Excellent PRR package for poorly drained soils
- Acceptable SWM tolerance

KEY

SCALE:
1 = Excellent
2 = Strong
3 = Acceptable
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5 = Not Recommended

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NEW

CROPLAN CP1525E

Enlist E3 SOYBEANS

Group: 1.5

Height	MS
Canopy Type	Int
Emergence	NA
Standability	1
BSR Tolerance	2

Characteristics

PRR Tolerance	2
SDS Tolerance	1
SWM Tolerance	2
BSR Tolerance	2
Iron Chlorosis	4

- New Peking single line variety with high yield potential
- Best positioned for central MN and east into WI and MI
- Strong PRR and BSR tolerance; excellent standability and above average SWM tolerance
- Use caution when planting on fields with history of IDC

UPGRADED

CROPLAN CP1620E

Enlist E3 SOYBEANS WinPak®

Group: 1.6

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

Characteristics

PRR Tolerance	2
SDS Tolerance	2
SWM Tolerance	2
BSR Tolerance	2
Iron Chlorosis	2

- WinPak® variety consisting of CP1535E and CP1624E
- Versatile WinPak variety; works best on IDC acres and fields with SCN pressure
- Strong agronomic package; strong standability

CROPLAN CP1623E

Enlist E3 SOYBEANS

Group: 1.6

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

Characteristics

PRR Tolerance	2
SDS Tolerance	2
SWM Tolerance	3
BSR Tolerance	1
Iron Chlorosis	2

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

CROPLAN CP1721E

Enlist E3 SOYBEANS

Group: 1.7

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

Characteristics

PRR Tolerance	2
SDS Tolerance	3
SWM Tolerance	2
BSR Tolerance	N/A
Iron Chlorosis	2

- 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

KEY

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

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NEW

CROPLAN CP1825E

Enlist E3 SOYBEANS

Group: 1.8

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

Characteristics

PRR Tolerance	1
SDS Tolerance	2
SWM Tolerance	2
BSR Tolerance	N/A
Iron Chlorosis	2

- Key new Peking standalone soybean variety that is also in WinPak® variety CP1830E
- Versatile variety that works from West to East across many soil types
- Excellent PRR tolerance and standability; strong IDC and SWM tolerance
- Use caution on fields with heavy BSR history

NEW

CROPLAN CP1830E

Enlist E3 SOYBEANS WinPak®

Group: 1.8

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

Characteristics

PRR Tolerance	2
SDS Tolerance	3
SWM Tolerance	2
BSR Tolerance	N/A
Iron Chlorosis	2

- New WinPak® variety consisting of CP1721E and CP1825E
- Broadly adapted WinPak variety that combines yield and agronomic strength
- Excellent standability; strong PRR, IDC and SWM tolerance
- This WinPak variety is ½ Peking variety and ½ PI88.788 for SCN control

NEW

CROPLAN CP2020E

Enlist E3 SOYBEANS WinPak®

Group: 2

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

Characteristics

PRR Tolerance	2
SDS Tolerance	3
SWM Tolerance	3
BSR Tolerance	2
Iron Chlorosis	3

- New Peking WinPak® variety consisting of CP2024E and CP2025E
- Broadly adapted from the Dakotas to Michigan and East
- Strong standability, PRR and BSR tolerance; acceptable IDC and SWM tolerance

CROPLAN CP2024E

Enlist E3 SOYBEANS

Group: 2

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

Characteristics

PRR Tolerance	2
SDS Tolerance	4
SWM Tolerance	3
BSR Tolerance	2
Iron Chlorosis	3

- High yield potential single line Peking variety also in WinPak® variety CP2020E
- Strong performance west to east across many soil types
- Excellent standability; acceptable SWM tolerance, strong PRR and BSR tolerance
- Acceptable IDC tolerance

KEY

SCALE:
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4 = Manage
5 = Not Recommended

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NEW

CROPLAN CP2230E

Enlist E3 SOYBEANS WinPak®

Group: 2.2

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

Characteristics

PRR Tolerance	3
SDS Tolerance	3
SWM Tolerance	3
BSR Tolerance	2
Iron Chlorosis	3

- New WinPak® variety consisting of CP2225E and CP2325E
- Broadly adapted with proven yield potential and agronomic strength
- Half peking and half PI88.788 with strong BSR tolerance
- Acceptable SWM, IDC, and standability

CROPLAN CP2322E

Enlist E3 SOYBEANS

Group: 2.3

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

Characteristics

PRR Tolerance	2
SDS Tolerance	1
SWM Tolerance	2
BSR Tolerance	2
Iron Chlorosis	3

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

UPGRADED

CROPLAN CP2520E

Enlist E3 SOYBEANS WinPak®

Group: 2.5

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

Characteristics

PRR Tolerance	3
SDS Tolerance	3
SWM Tolerance	3
BSR Tolerance	N/A
Iron Chlorosis	3

- Upgraded WinPak® variety that consists of CP2524E and CP2625ES
- High yield potential variety that can move east to west
- Acceptable SDS, SWM, and IDC tolerance
- Average standability, manage with population where necessary

NEW

CROPLAN CP2725E

Enlist E3 SOYBEANS

Group: 2.7

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

Characteristics

PRR Tolerance	2
SDS Tolerance	2
SWM Tolerance	3
BSR Tolerance	1
Iron Chlorosis	3

- New single line with high yield potential and solid agronomics
- Strong standability, PRR, and SDS allow this soybean to move east to west
- Acceptable SWM and IDC

KEY

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UPGRADED

CROPLAN CP2920E

Enlist E3 SOYBEANS WinPak®

Group: 2.9

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

Characteristics

PRR Tolerance	2
SDS Tolerance	3
SWM Tolerance	3
BSR Tolerance	5
Iron Chlorosis	3

- Upgraded WinPak® variety that consists of CP2925E and CP3024ES
- Strong agronomics paired with high yield potential make this a broad acre fit
- Strong stress tolerance and standability allow this WinPak variety to move east to west
- Manage SDS in high pressure environments with seed treatment

CROPLAN CP3120E

Enlist E3 SOYBEANS WinPak®

Group: 3.1

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

Characteristics

PRR Tolerance	1
SDS Tolerance	4
SWM Tolerance	3
BSR Tolerance	5
Iron Chlorosis	3

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

NEW

CROPLAN CP3325E

Enlist E3 SOYBEANS

Group: 3.3

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

Characteristics

PRR Tolerance	1
SDS Tolerance	2
SWM Tolerance	N/A
BSR Tolerance	1
Iron Chlorosis	3

- New single line soybean replacing CP3422ES
- Works well east to west
- Excellent standability

NEW

CROPLAN CP3330E

Enlist E3 SOYBEANS WinPak®

Group: 3.3

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

Characteristics

PRR Tolerance	1
SDS Tolerance	3
SWM Tolerance	N/A
BSR Tolerance	3
Iron Chlorosis	3

- WinPak® variety consisting of CP3225E and CP3424E
- Replaces CP3320
- Solid agronomic package, including SDS and IDC tolerance

KEY

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2 = Strong
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CROPLAN CP3422E

Enlist E3 SOYBEANS

Group: 3.4

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

Characteristics

PRR Tolerance	2
SDS Tolerance	2
SWM Tolerance	3
BSR Tolerance	1
Iron Chlorosis	2

- 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

UPGRADED

CROPLAN CP3620E

Enlist E3 SOYBEANS WinPak®

Group: 3.6

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

Characteristics

PRR Tolerance	1
SDS Tolerance	3
SWM Tolerance	N/A
BSR Tolerance	N/A
Iron Chlorosis	4

- Upgraded WinPak® variety that consists of CP3524ES and CP3625E
- Broad acre product that moves east to west; handles variable soils with top end yield potential
- Excellent PRR tolerance with acceptable SDS tolerance

NEW

CROPLAN CP3825E

Enlist E3 SOYBEANS

Group: 3.8

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

Characteristics

PRR Tolerance	1
SDS Tolerance	2
Frogeye Leaf spot	2
Southern Stem Canker	1
Root-Knot Nematode	5

- New single line soybean, that also is in WinPak® variety CP3830
- Strong western movement that can handle tough acres
- Excellent PRR tolerance with acceptable SDS tolerance
- Acceptable IDC tolerance

NEW

CROPLAN CP3830E

Enlist E3 SOYBEANS WinPak®

Group: 3.8

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

Characteristics

PRR Tolerance	1
SDS Tolerance	2
Frogeye Leaf spot	2
Southern Stem Canker	1
Root-Knot Nematode	5

- WinPak® variety consisting of CP3825E and CP3835E
- WinPak variety designed for Central and West
- Strong standability and SDS tolerance; acceptable IDC tolerance

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UPGRADED

CROPLAN CP3920ES

Enlist E3 SOYBEANS WinPak®

Group: 3.9

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

Characteristics

PRR Tolerance	2
SDS Tolerance	2
Frogeye Leaf spot	2
Southern Stem Canker	1
Root-Knot Nematode	N/A

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

NEW

CROPLAN CP4125ES

Enlist E3 SOYBEANS

Group: 4.1

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

Characteristics

PRR Tolerance	3
SDS Tolerance	3
Frogeye Leaf spot	1
Southern Stem Canker	1
Root-Knot Nematode	5

- Standalone variety with high yield potential and excellent standability
- Best performance on medium to well drained soils
- Excellent FELS tolerance; good PRR and SDS tolerance

CROPLAN CP4324ES

Enlist E3 SOYBEANS

Group: 4.3

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

Characteristics

PRR Tolerance	2
SDS Tolerance	2
Frogeye Leaf spot	2
Southern Stem Canker	1
Root-Knot Nematode	5

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

NEW

CROPLAN CP4425E

Enlist E3 SOYBEANS

Group: 4.4

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

Characteristics

PRR Tolerance	3
SDS Tolerance	3
Frogeye Leaf spot	2
Southern Stem Canker	1
Root-Knot Nematode	5

- Standalone variety; light tawny, brown variety that handles stress well
- Broad acre soybean with narrower plant type
- Excellent emergence and very good stress tolerance
- Manage with seed treatment in areas with higher concerns for PRR and SDS

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NEW

CROPLAN CP4525ES

Group: 4.6

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

Characteristics

PRR Tolerance	3
SDS Tolerance	3
Frogeye Leaf spot	2
Southern Stem Canker	1
Root-Knot Nematode	5

- Exciting new standalone variety that brings high yield potential
- Broader plant type that can handle stressed acres and environments well
- Very good standability; good tolerance to FELS, SDS, and stem canker

NEW

CROPLAN CP4725ES

Group: 4.7

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

Characteristics

PRR Tolerance	3
SDS Tolerance	2
Frogeye Leaf spot	2
Southern Stem Canker	1
Root-Knot Nematode	5

- New standalone variety with high yield potential; medium tall variety
- Excels in high yield environments with ability to handle stress
- Excellent standability with very good tolerance to SDS

CROPLAN CP4822ES

Group: 4.9

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

Characteristics

PRR Tolerance	3
SDS Tolerance	3
Frogeye Leaf spot	2
Southern Stem Canker	N/A
Root-Knot Nematode	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

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Soybean

	BRAND	WinPak Components	Relative Maturity	Determinate Indeterminate	SCN Resistance (1)	PRR Gene (2)	PRR Tolerance	SDS Tolerance	Chloride Tolerance	SWM Tolerance	BSR Tolerance	Iron Chlorosis	Southern Stem Canker (3)	Frogeye Leaf Spot	Root-Knot Nematode (3)	Emergence	Standability	Stress Tolerance	Canopy Type (4)	Plant Height (5)	Flower Color (6)	Pubescence Type (7)	Pod Color (8)	Hilum Color (9)
	XtendFlex® - RM: 0.0-1.4																							
NEW	**CP00545XF**		0.05	IND	PI88.788	Rps1c,3a	2	NA	Includer	2	NA	2	1	NA	NA	NA	3	NA	Int	MT	P	LTW	TN	BR
	CP00744XF*		0.07	IND	NG	Rps1c	1	NA	Includer	2	2	4	NA	2	NA	2	2	NA	Int	M	P	LTW	BR	GR
	CP00840XF	CP00744XF*/CP00944XF	0.08	IND	PI88.788/NG	Rps1c	2	NA	Includer	3	2	3	NA	2/NA	NA	2	2	NA	Int	MT	P	LTW	BR	BL/GL
	CP00944XF		0.09	IND	PI88.788	Rps1c	2	NA	Includer	4	2	2	NA	NA	NA	1	2	NA	Int	MT	P	LTW	BR	BL
	CP0244XF		0.2	IND	PI88.788	Rps1c	3	NA	Includer	2	2	1	NA	NA	NA	1	2	NA	Int/Bush	MT	P	LTW	BR	BL
▲	**CP0440XF**	CP0444XF*/CP0555XF*	0.4	IND	PI88.788	Rps1c,3a/1c	2	3/NA	Includer	3	1/NA	2	1/NA	NA	NA	1/NA	2	NA	Int/Bush	MT	P	GR/LTW	BR	GR/IB
	CP0444XF*		0.4	IND	PI88.788	Rps1c	2	NA	Includer	3	1	1	NA	NA	NA	1	1	NA	Int/Bush	MT	P	GR	BR	IB
	CP0542XF		0.5	IND	PI88.788	Rps1c	3	3	Includer	3	4	4	1	NA	NA	2	3	NA	Int/Bush	MT	P	LTW	TN	IY
NEW	**CP0555XF***		0.5	IND	PI88.788	Rps1c,3a	1	3	Includer	3	NA	3	1	NA	NA	NA	2	NA	Int	M	P	LTW	BR	GR
	CP0740XF	CP0744XF*/CP0751XF*	0.7	IND	PI88.788	Rps1k/1c,3a	2	2/NA	Includer	3	1	2	1/NA	NA	5/NA	1	3	1/NA	Int	MT	P	GR/TW	BR	BL/IB
	CP0744XF*		0.7	IND	PI88.788	Rps1k	2	2	Includer	2	1	2	1	NA	5	1	2	1	Int	M	P	GR	BR	IB
	CP0751XF*		0.7	IND	PI88.788	Rps1c,3a	2	NA	Includer	3	1	2	NA	NA	NA	1	3	NA	Int	MT	P	TW	BR	BL
▲	**CP0940XF**	CP0955XF*/CP1042XF*	0.9	IND	PI88.788	HRps3a/1c	2	2/NA	Includer	2	3	2	1/NA	NA	NA	1/NA	2	2/NA	Int	MT	P	LTW	TN	BL/BR
NEW	**CP0955XF***		0.9	IND	PI88.788	Rps1c	2	2	Includer	2	2	3	1	NA	NA	NA	1	NA	Int/Nar	M	P	LTW	TN	BL
	CP1042XF*		1	IND	PI88.788	HRps3a	2	NA	Includer	2	3	2	NA	NA	NA	1	2	2	Int/Bush	MT	P	LTW	TN	BR
	CP1240XF	CP1242XF*/CP1244XF*	1.2	IND	PI88.788	Rps1c,H3a	2	3	Includer	2	1	2	1/NA	NA	5/NA	1	1	2	Int	MT	P	GR/LTW	BR/TN	BL/BF
	CP1242XF*		1.2	IND	PI88.788	HRps3a	2	3	Includer	2	1	2	NA	NA	NA	1	1	2	Int	MT	P	LTW	BR	BL
	CP1244XF*		1.2	IND	PI88.788	Rps1c	2	2	Includer	1	1	2	1	NA	5	1	1	2	Int	M	P	GR	TN	BF
	CP1443XF*		1.4	IND	PI88.788	Rps1c,3a	2	2	Includer	1	2	3	1	NA	NA	2	2	NA	Int	MT	P	LTW	BR	BR

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1 SCN Resistant Source
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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

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

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

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

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

6 Flower Color
P = Purple
W = White

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

8 Pod Color
TN = Tan
BR = Brown

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

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CROPLAN™

Soybean

	BRAND	WinPak Components	Relative Maturity	Determinate Indeterminate	SCN Resistance 1	PRR Gene 2	PRR Tolerance	SDS Tolerance	Chloride Tolerance	SWM Tolerance	BSR Tolerance	Iron Chlorosis	Southern Stem Canker 3	Frogeye Leaf Spot	Root-Knot Nematode 3	Emergence	Standability	Stress Tolerance	Canopy Type 4	Plant Height 5	Flower Color 6	Pubescence Type 7	Pod Color 8	Hilum Color 9
	XtendFlex® - RM: 1.5-3.4																							
▲	**CP1540XF**	CP1443XF/CP1545XF*	1.5	IND	PI88.788	Rps1c,3a/1c,3a	2	3	Includer	2	2	3	1	NA	5/NA	2	2	1/NA	Int	MT	P	GR/LTW	BR/TN	BR/IB
NEW	**CP1545XF***		1.5	IND	PI88.788	Rps1c,3a	1	3	Includer	2	1	2	1	NA	5	1	2	1	Int/Nar	MT	P	GR	TN	IB
	CP1742XF		1.7	IND	PI88.788	Rps1c	2	2	Includer	2	1	1	1	NA	NA	2	1	NA	Int/Nar	T	P	LTW	BR	BR
	CP1840XF	CP1742XF/CP1844XF*	1.8	IND	PI88.788	Rps1c/NG	2	2	Includer	2	1	2	1	NA	5/NA	2	1	2/NA	Int	T	P	LTW	BR/TN	BR/BL
	CP1844XF*		1.8	IND	PI88.788	NG	2	2	Includer	2	1	3	1	NA	5	1	1	2	Int	MT	P	LTW	TN	BL
	CP2054XF		2	IND	PI88.788	NG	2	2	Includer	2	1	3	1	NA	5	1	2	2	Int	M	P	LTW	TN	BL
	CP2244XF*		2.2	IND	PI88.788	Rps1c	3	1	Includer	2	4	2	1	4	NA	2	2	NA	Int/Bush	MT	W	LTW	BR	BL
	CP2340XF	CP2244XF*/CP2344XF*	2.3	IND	PI88.788	Rps1c	3	2	Includer	3	4	2	1	4/NA	5/NA	2	2	2/NA	Int/Bush	MT	P/W	GR/LTW	BR	BL/IB
	CP2344XF*		2.3	IND	PI88.788	Rps1c	2	3	Includer	3	3	2	1	NA	5	2	2	2	Int	MT	P	GR	BR	IB
▲	**CP2540XF**	CP2543XF*/CP2545XF*	2.5	IND	PI88.788	Rps1c	2	3	Includer	3	1	2	1	NA	5	2	3	2	Int/Bush	MT	P	GR/LTW	BR/TN	BL/IB
	CP2543XF*		2.5	IND	PI88.788	Rps1c	2	3	Includer	2	1	2	1	NA	5	2	2	2	Int	MT	P	GR	BR	IB
NEW	**CP2545XF***		2.5	IND	PI88.788	Rps1c	2	2	Includer	3	1	2	1	NA	5	2	3	1	Int/Bush	MT	P	LTW	BR	BL
	CP2743XF		2.7	IND	PI88.788	NG	2	2	Includer	5	NA	3	1	NA	NA	1	3	NA	Int	T	P	LTW	BR	BL
▲	**CP2840XF**	CP2743XF*/CP2845XF*	2.8	IND	PI88.788	NG	2	2	Includer	5	3/NA	3	1	1/NA	NA	1	2	NA	Int/Bush	MT	P	LTW	BR	BL
NEW	**CP2845XF***		2.8	IND	PI88.788	NG	3	1	Includer	4	3	2	1	1	NA	NA	1	NA	Int/Bush	M	P	LTW	BR	BL
NEW	**CP3245XF***		3.2	IND	PI88.788	Rps1k	1	2	Includer	3	1	4	1	NA	5	1	2	2	Int/Nar	MT	P	GR	BR	IB
NEW	**CP3250XF**	CP3245XF*/CP3345XF*	3.2	IND	PI88.788	Rps1c-1k,3a/1k	2	2	Includer	3	1	4	1	NA	NA	2	2	NA	Int/Bush	MT	P	GR/LTW	BR	IB/BL
NEW	**CP3345XF***		3.3	IND	PI88.788	Rps1c-1k,3a	NA	1	Includer	3	1	4	1	1	NA	NA	3	NA	Int/Bush	MT	P	LTW	BN	BL
	CP3444XF*		3.4	IND	PI88.788	Rps1c	3	2	Includer	3	2	3	1	1	NA	2	2	NA	Int/Bush	M	P	LTW	BR	BL

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CROPLAN™

Soybean

	BRAND	WinPak Components	Relative Maturity	Determinate Indeterminate	SCN Resistance 1	PRR Gene 2	PRR Tolerance	SDS Tolerance	Chloride Tolerance	SWM Tolerance	BSR Tolerance	Iron Chlorosis	Southern Stem Canker 3	Frogeye Leaf Spot	Root-Knot Nematode 3	Emergence	Standability	Stress Tolerance	Canopy Type 4	Plant Height 5	Flower Color 6	Pubescence Type 7	Pod Color 8	Hilum Color 9
	XtendFlex® - RM: 3.5-4.8																							
	CP3544XFS*		3.5	IND	PI88.788	Rps3a	3	3	Excluder	3	1	3	1	5	5	1	2	NA	Int/Bush	M	P	LTW	BR	BL
	CP3550XF	CP3444XF*/CP3544XFS*	3.5	IND	PI88.788	Rps1c/3a	3	3	Inc/Exc	3	2	3	1	3	5/NA	2	2	NA	Int/Bush	M	P	LTW	BR	BL
	CP3753XF		3.7	IND	PI88.788	NG	3	2	Includer	NA	1	3	1	1	NA	1	2	NA	Int	MT	P	LTW	BR	BL
NEW	CP3845XFS		3.8	IND	PI88.788	Rps1c	3	2	Excluder	2	1	4	1	2	NA	NA	2	NA	Int/Bush	MT	P	LTW	BN	BL
NEW	CP4145XFS		4.2	IND	PI88.788	Rps1c	3	2	Excluder	NA	1	4	1	4	5	NA	2	NA	Bush	M	W	LTW	BN	BL
NEW	CP4545XFS		4.5	IND	PI88.788	Rps1k	1	4	Includer	NA	NA	2	1	1	5	NA	1	NA	Int	M	W	LTW	BR	BL
	CP4541XFS		4.6	IND	PI88.788	Rps1c	3	2	Excluder	NA	NA	NA	1	NA	5	1	3	NA	Int/Bush	T	P	LTW	BR	BL
NEW	CP4845XFS		4.8	IND	PI88.788	Rps1c	2	4	Excluder	NA	NA	4	1	3	3	NA	3	NA	Int/Bush	MT	P	LTW	TN	BL
	Roundup Ready 2 Xtend® - RM: 0.03																							
	CP00312X		0.03	IND	NG	Rps1c	1	NA	Includer	2	NA	2	1	NA	NA	2	1	NA	Int	M	P	LTW	BR	IY
	Enlist E3® - RM: 0.0-0.8																							
	CP00824E		0.08	IND	PI88.788	Rps3a	1	NA	Includer	3	5	2	1	NA	5	1	2	1	Bush	MT	P	GR	TN	BF
	CP0124E		0.1	IND	PI88.788	Rps3a	1	NA	Includer	2	1	2	1	NA	5	1	1	1	Int	MT	P	GR	TN	IB
NEW	CP0325E		0.3	IND	PI88.788	Rps1k,3a	1	NA	Includer	3	1	2	1	NA	5	1	2	2	Int/Nar	MT	P	GR	TN	BF
NEW	CP0525E*		0.5	IND	Peking	Rps1c	3	3	Includer	3	2	1	1	3	NA	2	2	NA	Int/Bush	M	P	LTW	BR	BL
▲	CP0530E	CP0525E*/CP0534E*	0.5	IND	Peking/PI88.788	Rps1c/1k,H3a	2	3	Includer	3	2	1	1	NA	5/NA	2	2	1/NA	Int/Bush	M	P	GR/LTW	BR/TN	BL/IB
	CP0534E*		0.5	IND	PI88.788	Rps1k,H3a	1	2	Includer	2	1	1	1	NA	5	1	2	1	Int	M	P	GR	TN	IB
	CP0820E	CP0822E*/CP0824E*	0.8	IND	Peking/PI88.788	Rps3a/NG	2	2/NA	Inc/Exc	3	1/NA	2	1/NA	NA	5	1	2	2	Int/Bush	MT	P	GR	TN	BF
	CP0822E*		0.8	IND	PI88.788	NG	2	NA	Excluder	2	NA	2	NA	NA	5	1	1	2	Int	M	P	GR	TN	BF

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CROPLAN™

Soybean

	BRAND	WinPak Components	Relative Maturity	Determinate Indeterminate	SCN Resistance 1	PRR Gene 2	PRR Tolerance	SDS Tolerance	Chloride Tolerance	SWM Tolerance	BSR Tolerance	Iron Chlorosis	Southern Stem Canker 3	Frogeye Leaf Spot	Root-Knot Nematode 3	Emergence	Standability	Stress Tolerance	Canopy Type 4	Plant Height 5	Flower Color 6	Pubescence Type 7	Pod Color 8	Hilum Color 9
	Enlist E3® - RM: 0.8-2.0																							
	CP0824E*		0.8	IND	Peking	Rps3a	1	2	Includer	3	1	2	1	NA	5	1	2	1	Int/Bush	MT	P	GR	TN	BF
NEW	CP0925E		0.9	IND	PI88.788	Rps1k,3a	4	3	Includer	3	3	1	NA	2	NA	3	2	NA	Int/Bush	M	P	LTW	BR	BR
	CP1123E*		1.1	IND	Peking	Rps3a	1	2	Includer	3	1	2	1	NA	5	1	2	1	Int	MT	P	GR	TN	BF
▲	CP1130E	CP1123E*/CP1225E*	1.1	IND	Peking	Rps3a/1k	2	3	Includer	3	2	2	1/NA	2/NA	5/NA	2	3	1	Int/Bush	MT	P	GR/LTW	BR/TN	BF/BL
NEW	CP1125E		1.2	IND	PI88.788	Rps1c,H3a	2	3	Includer	2	1	2	1	NA	5	1	2	1	Int/Nar	MT	P	GR	TN	IB
NEW	CP1225E*		1.3	IND	Peking	Rps1k	3	3	Includer	3	2	2	NA	2	NA	3	3	NA	Int/Bush	M	P	LTW	BR	BL
NEW	CP1425E		1.4	IND	PI88.788	Rps1c,3a	1	3	Includer	2	NA	1	1	NA	5	1	2	1	Int/Nar	MT	P	GR	TN	IB
▲	CP1430E	CP1425E*/CP1522E*	1.4	IND	PI88.788	Rps1c,3a/3a	1	3	Includer	3	1/NA	2	1/NA	NA	5	1	2	2	Int	MT	P	GR	TN	BF/IB
	CP1522E*		1.5	IND	PI88.788	Rps3a	1	2	Includer	3	1	3	NA	NA	5	1	2	2	Int	M	P	GR	TN	BF
NEW	CP1525E		1.5	IND	Peking	Rps1k	2	1	Includer	2	2	4	1	3	NA	NA	1	NA	Int	MS	P	GR	BR	IB
NEW	CP1535E*		1.5	IND	Peking	Rps1c,3a	1	2	Includer	2	1	2	1	1	5	1	2	2	Int/Nar	MT	P	GR	TN	IB
▲	CP1620E	CP1525E*/CP1624E*	1.6	IND	Peking	Rps1k,6/1c,3a	2	2	Includer	2	2	2	1/NA	1	5/NA	2	2	2/NA	Int	MT	P	GR/LTW	TN	BR/IB
	CP1623E		1.6	IND	Peking	Rps1k	2	2	Includer	3	1	2	1	NA	1	1	2	1	Int	MT	P	GR	TN	BF
	CP1624E*		1.6	IND	Peking	Rps1k,6	3	2	Includer	2	2	2	NA	1	NA	2	2	NA	Int/Bush	M	P	LTW	TN	BR
	CP1721E		1.7	IND	PI88.788	Rps1k	2	3	Includer	2	NA	2	NA	NA	NA	1	1	2	Int	M	P	GR	BR	IB
NEW	CP1825E		1.8	IND	Peking	Rps1k	1	2	Includer	2	NA	2	1	NA	5	1	1	1	Int/Nar	MT	P	GR	TN	BF
NEW	CP1830E	CP1721E/CP1825E	1.8	IND	Peking/PI88.788	Rps1k	2	3	Includer	2	NA	2	1/NA	NA	5/NA	1	1	2	Int	MT	P	GR	BR/TN	BF/IB
NEW	CP2020E	CP2024E/CP2025E*	2	IND	Peking	Rps3a/1k	2	3	Includer	3	2	3	1	4/NA	5/NA	2	2	2/NA	Int	M	P	GR	BR/TN	IB
	CP2024E		2	IND	Peking	Rps1k	2	4	Includer	3	2	3	1	4	NA	2	1	NA	Int	MS	P	GR	BR	IB

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CROPLAN™

Soybean

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	Enlist E3® - RM: 2.0-3.6																							
NEW	CP2025E*		2	IND	Peking	Rps3a	1	2	Includer	2	1	2	1	NA	5	2	2	2	Int/Nar	MT	P	GR	TN	IB
NEW	CP2225E		2.2	IND	Peking	NG	2	2	Includer	2	1	2	1	NA	5	2	2	2	Int/Nar	MT	P	GR	TN	IB
NEW	CP2230E	CP2225E/CP2325E*	2.2	IND	Peking/PI88.788	Rps1c,3a/NG	3	3	Includer	3	2	3	1/NA	3/NA	5/NA	3	3	2/NA	Int	MT	P	GR/LTW	TN	BL/IB
NEW	CP2325E*		2.3	IND	PI88.788	Rps1c,3a	3	3	Includer	3	3	4	NA	3	NA	3	3	NA	Int/Bush	MT	P	LTW	TN	BL
	CP2322E		2.3	IND	PI88.788	Rps1c	2	1	Includer	2	2	3	1	NA	NA	2	2	NA	Int	M	P	GR	BR	IB
▲	CP2520E	CP2524E*/CP2625ES*	2.5	IND	Peking/PI88.788	Rps1k/NG	3	3	Includer	3	NA	3	1	3/NA	5	3	3	2/NA	Int/Bush	MT	P	GR/LTW	BR/TN	BL/IB
	CP2524E*		2.5	IND	Peking	Rps1k	3	3	Includer	3	2	3	NA	2	5	3	3	NA	Bush	M	P	LTW	TN	BL
NEW	CP2625ES*		2.6	IND	PI88.788	NG	2	2	Includer	2	NA	2	1	NA	5	2	2	2	Int/Nar	MT	P	GR	BR	IB
NEW	CP2725E		2.7	IND	Peking	Rps1k	2	2	Includer	3	1	3	1	NA	5	2	2	2	Int/Nar	MT	P	LTW	BR	BR
▲	CP2920E	CP2925E*/CP3024ES*	2.9	IND	Peking/PI88.788	Rps1k/NG	2	3	Includer	3	5	3	1	2/NA	NA	2	2	2	Int	MT	P	GR	BR/TN	IB
NEW	CP2925E*		2.9	IND	Peking	Rps1k	2	2	Includer	3	5	2	1	NA	5	2	2	2	Int/Nar	MT	P	GR	TN	IB
	CP3024ES*		3.0	IND	PI88.788	NG	1	3	Includer	3	5	3	1	2	5	1	2	1	Int	MT	P	GR	BR	IB
	CP3120E	CP3024ES*/CP3124ES*	3.1	IND	PI88.788	Rps1c/NG	1	4	Includer	3	5	3	1	3	5	2	2	1	Int	MT	P	GR	BR	IB
	CP3124ES*		3.1	IND	PI88.788	Rps1c	1	4	Includer	3	5	3	1	3	5	2	1	1	Int/Nar	MT	P	GR	BR	IB
NEW	CP3325E		3.3	IND	Peking	NG	1	2	Includer	NA	1	3	1	3	5	1	2	1	Int/Bush	MT	P	GR	TN	IB
NEW	CP3330E	CP3325E/CP3425ES*	3.3	IND	Peking	Rps1k/NG	1	3	Includer	NA	3	3	1	NA	5	1	2	1	Int/Bush	MT	P	GR	TN	IB
	CP3422E		3.4	IND	PI88.788	NG	2	2	Includer	3	1	2	NA	3	NA	1	2	1	Int	MT	P	LTW	BR	BL
NEW	CP3425ES*		3.4	IND	Peking	Rps1k	1	3	Includer	NA	NA	2	1	NA	5	1	2	1	Int/Nar	MT	P	GR	TN	IB
	CP3524ES*		3.5	IND	PI88.788	NG	1	2	Includer	NA	1	3	1	3	5	1	2	1	Int/Bush	MT	P	GR	BR	BF
▲	CP3620E	CP3524ES*/CP3625E*	3.6	IND	PI88.788	Rps1k/NG	1	3	Includer	NA	1/NA	4	1	3	NA	1	3	1	Int/Bush	MT	P	GR/LTW	BR	BF/BL

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CROPLAN

Soybean

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	Enlist E3® - RM: 3.6-4.9																							
NEW	CP3625E*		3.6	IND	PI88.788	Rps1k	1	3	Includer	NA	NA	4	1	2	5	1	3	1	Int/Bush	MT	P	LTW	BR	BL
NEW	CP3825E		3.8	IND	PI88.788	Rps1k	1	2	Includer	NA	NA	3	1	2	5	1	2	1	Int/Nar	MT	W	LTW	BR	BL
NEW	CP3830E	CP3825E/CP3835E*	3.8	IND	PI88.788	Rps1k	1	2	Includer	NA	NA	3	1	2	5	1	2	1	Int/Bush	MT	W	LTW	BR	BL
NEW	CP3835E*		3.8	IND	PI88.788	Rps1k	1	2	Includer	NA	NA	3	1	2	5	1	2	1	Int/Bush	MT	W	LTW	BR	BL
▲	CP3920ES	CP3925ES*/CP3924ES*	3.9	IND	PI88.788	Rps1c/NG	2	2	Includer	NA	3/NA	3	1	1	NA	2	2	2/NA	Int/Bush	MT	W	GR/LTW	BR/TN	BF/BL
	CP3924ES*		3.9	IND	PI88.788	Rps1c	2	1	Excluder	NA	3	5	1	1	NA	1	2	NA	Int	M	W	GR	TN	BF
NEW	CP3925ES*		3.9	IND	PI88.788	NG	2	2	Excluder	NA	NA	2	1	1	5	2	1	2	Int/Bush	M	W	LTW	BR	BL
NEW	CP4125ES		4.1	IND	PI88.788	NG	3	3	Excluder	NA	NA	NA	1	1	5	1	1	2	Int/Bush	MT	W	LTW	BR	BL
	CP4324ES		4.3	IND	PI88.788	Rps1c	2	2	Includer	NA	5	NA	1	2	5	1	2	1	Int	MT	W	LTW	TN	BR
NEW	CP4425E		4.4	IND	PI88.788	Rps1k	3	3	Includer	NA	1	NA	1	2	5	1	2	2	Int/Nar	MT	P	LTW	BR	BL
NEW	CP4525ES		4.6	IND	PI88.788	Rps1c	3	3	Includer	NA	NA	NA	1	2	5	1	2	1	Int/Bush	MT	W	LTW	TN	BL
NEW	CP4725ES		4.7	IND	PI88.788	NG	3	2	Includer	NA	NA	NA	1	2	5	1	1	2	Int/Bush	MT	P	GR	TN	IB
	CP4822ES		4.9	IND	PI88.788	NG	3	3	Excluder	NA	NA	NA	NA	2	NA	2	2	NA	Int/Bush	MT	W	GR	BR	BF

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CROPLAN™

Soybean

Product Name

Attributes

Placement

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ALFALFA

PACKING MORE INNOVATION INTO EACH & EVERY ALFALFA PLANT.

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.
- 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.

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 seedings 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.

ALFALFA

CROPLAN AA ALFALFA

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

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

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

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

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

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

THE TRAITS YOU NEED

HARVXTRA® ALFALFA WITH ROUNDUP READY® TECHNOLOGY

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

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

ROUNDUP READY® ALFALFA

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

CONVENTIONAL ALFALFA

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

ALFALFA FOR ORGANIC FORAGE PRODUCTION

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

IMPROVE SEEDLING EFFICIENCY WITH COATED SEED

- Provides an ideal microenvironment with better imbibition (water uptake) and germination.
- Keeps treatments/inoculants close to or bound to the seed for more complete coverage.
- Increases vigor under disease pressure.

SEED COATING

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

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

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

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

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

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

ALFALFA

BRING THE POWER OF PROOF TO YOUR FARM.

Check out the results below. They're proof that bringing high-end genetics with the latest traits and an unbiased focus on product development can deliver big yield potential. Make sure these high performers are a part of your final lineup this season.

ALFALFA PRODUCT	FD	2022 YIELD DM T/AC	2023 YIELD DM T/AC	TOTAL CUTS	TOTAL YIELD DM T/AC	**TOTAL YIELD % CHECK	RFQ % CHECK	MILK/AC % CHECK
WEST SALEM, WI PLANTED 2021								
GUNNER AA	5	5.7	7.3	8	13.0	117%	106%	122%
HVX MegaTron AA	4	5.4	6.6	8	12.0	108%	112%	120%
LegenDairy AA	3	5.8	6.8	8	12.6	113%	107%	118%
RR AphaTron AA	4	5.6	7.2	8	12.8	115%	101%	116%
Rebound AA	4	5.8	7.0	8	12.8	115%	101%	115%

*Check varieties. Check mean is the mean (average) of the commercial check varieties included in this trials. % Check mean = 100%. If a variety's yield value is over 100%, it is performing 'above average'. If below 100%, the variety is performing 'below average'.

**Sorted by Multi-Year Total Yield + Forage Yield Total reported as dry matter tons per acre.

Product descriptions and/or performance are dependent upon many factors beyond the control of Winfield United including without limitation, reduced performance, and/or crop damage due to environmental factors such as variations in rainfall, temperature, crop production patterns and other factors. Source: Data compiled from Forage Genetics International in 2021-2023 at locations listed. Growers should evaluate data from multiple locations and years whenever possible.

See your local forage specialist for local yield and quality data.

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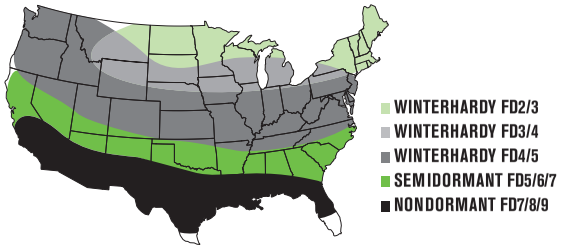
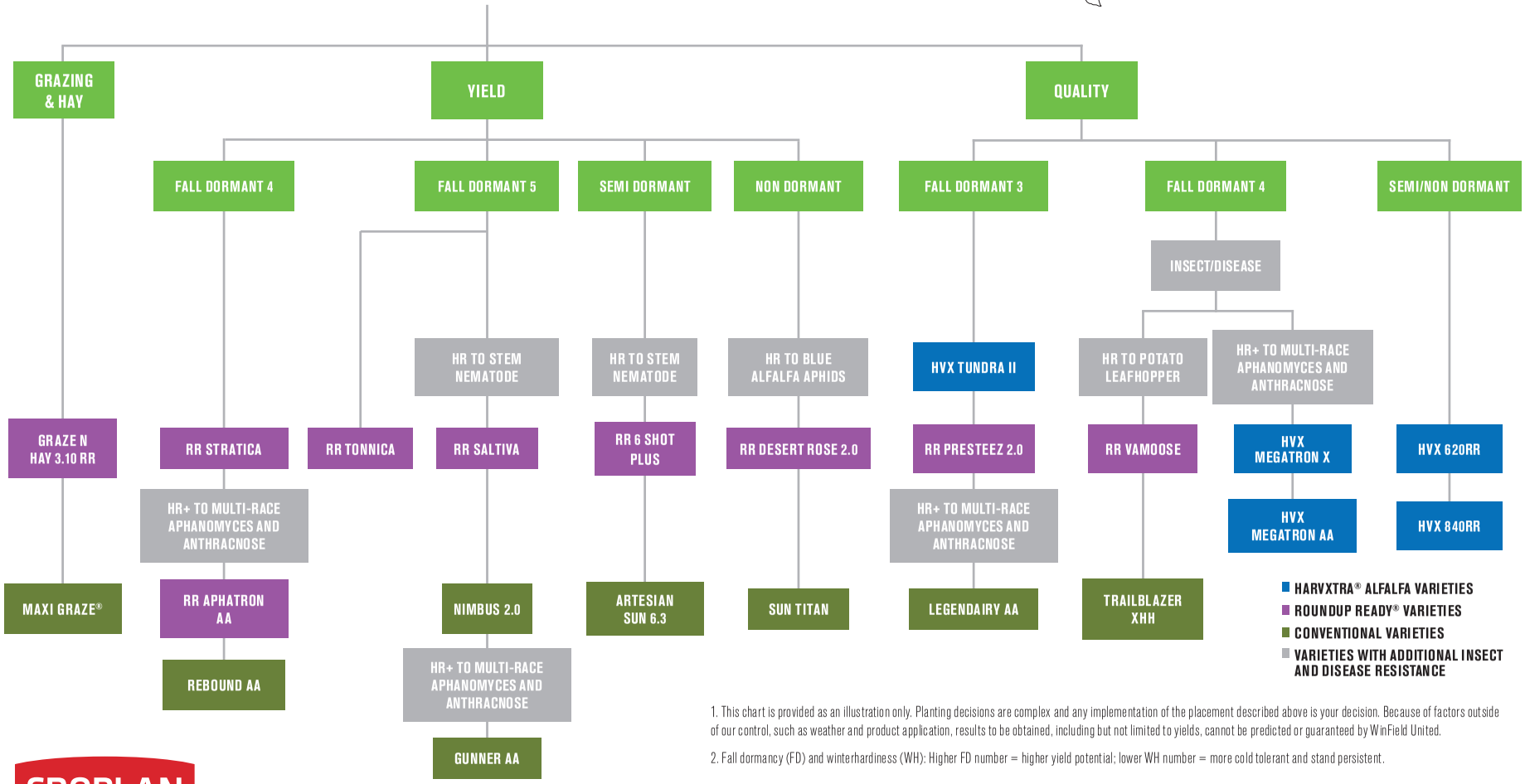
ALFALFA VARIETY PLACEMENT[1]

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

PRODUCT DORMANCY MAP[2]

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





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

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

CROPLAN®

CROPLAN HVX Tundra II

HARVXTRA

Regions: East|North|West

Fall Dormancy: 3.3

Winterhardiness: 1.2

Characteristics	
Yield Index	2
Persistence Index	1
Feed Quality*	N/A
Disease Resistance	3
Insect Resistance	4
Nematode Resistance	3

- H1 feed quality rating; highest forage quality potential in our lineup
- 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 a 1- to 2-cut hay harvest, followed by grazing
- On average, 24% higher NDFD than Roundup Ready® check varieties

CROPLAN HVX MegaTron X

HARVXTRA

Regions: Central|East|North|West

Fall Dormancy: 4.3

Winterhardiness: 1.9

Characteristics	
Yield Index	1
Persistence Index	1
Feed Quality*	N/A
Disease Resistance	2
Insect Resistance	4
Nematode Resistance	3

- H2 feed quality rating; excellent soil disease resistance package
- Highest resistance (HR+) rating to Aphanomyces Root Rot Enhanced Multi-Race; resistant (R) to multi-race anthracnose (including new race 5)
- Excellent quality and yield potential with a 3- to 5-cut flexible harvest system
- Very good yield or forage quality potential with the HarvXtra® Alfalfa trait

CROPLAN HVX MegaTron AA

HARVXTRA

Regions: Central|East|North|West

Fall Dormancy: 4.4

Winterhardiness: 1.4

Characteristics	
Yield Index	1
Persistence Index	1
Feed Quality*	1
Disease Resistance	1
Insect Resistance	3
Nematode Resistance	3

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

CROPLAN HVX 620RR Brand

HARVXTRA

Regions: South|West

Fall Dormancy: 6

Winterhardiness: -

Characteristics	
Yield Index	2
Persistence Index	2
Feed Quality*	N/A
Disease Resistance	4
Insect Resistance	2
Nematode Resistance	3

- H3 feed quality rating; HarvXtra® Alfalfa harvest flexibility
- 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
- Available in a semidormant variety to maximize yield and 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 my change as additional data is gathered.

HARVXTRA

* 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.

CROPLAN HVX 840RR Brand

HARVXTRA

Regions: South|West

Fall Dormancy: 7.9

Winterhardiness: -

Characteristics	
Yield Index	2
Persistence Index	1
Feed Quality*	N/A
Disease Resistance	4
Insect Resistance	2
Nematode Resistance	3

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

CROPLAN Graze N Hay 3.10RR

Roundup Ready Alfalfa

Regions: North|West

Fall Dormancy: 2.9

Winterhardiness: 1.8

Characteristics	
Yield Index	3
Persistence Index	1
Feed Quality	3
Disease Resistance	3
Insect Resistance	4
Nematode Resistance	5

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

CROPLAN RR Presteez 2.0

Roundup Ready Alfalfa

Regions: Central|East|North|West

Fall Dormancy: 3.3

Winterhardiness: 1

Characteristics	
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

Roundup Ready Alfalfa

Regions: Central|East|North

Fall Dormancy: 3.9

Winterhardiness: 1.8

Characteristics	
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

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CROPLAN MP4000RR Brand

Roundup Ready Alfalfa

Regions: Central|East|North|West

Fall Dormancy: 4

Winterhardiness: 2

Characteristics	
Yield Index	3
Persistence Index	3
Feed Quality	3
Disease Resistance	4
Insect Resistance	5
Nematode Resistance	5

- Premium, mulifoliate blend variety with wide geographic adaptation
- Good forage yield and quality potential
- Works well in 4-cut hay or haylage management system
- Excellent weed control with Roundup Ready® management system

CROPLAN RR AphaTron 2XT

Roundup Ready Alfalfa

Regions: Central|East|North|West

Fall Dormancy: 4

Winterhardiness: 1.5

Characteristics	
Yield Index	2
Persistence Index	1
Feed Quality	2
Disease Resistance	3
Insect Resistance	3
Nematode Resistance	3

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

CROPLAN RR AphaTron AA

Roundup Ready Alfalfa

Regions: Central|East|North|West

Fall Dormancy: 4.4

Winterhardiness: 1.4

Characteristics	
Yield Index	1
Persistence Index	1
Feed Quality	2
Disease Resistance	1
Insect Resistance	3
Nematode Resistance	N/A

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

CROPLAN RR Saltiva

Roundup Ready Alfalfa

Regions: Central|North|West

Fall Dormancy: 4.8

Winterhardiness: 2.5

Characteristics	
Yield Index	1
Persistence Index	2
Feed Quality	3
Disease Resistance	3
Insect Resistance	1
Nematode Resistance	1

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

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CROPLAN RR Tonnica

Roundup Ready Alfalfa

Regions: Central|East|North|South|West

Fall Dormancy: 5

Winterhardiness: 2

Characteristics

Yield Index	2
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

CROPLAN RR 6 Shot Plus

Roundup Ready Alfalfa

Regions: South|West

Fall Dormancy: 6

Winterhardiness: -

Characteristics

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
- 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
- Ideal in the High Plains, the South and the Southwest

CROPLAN RR Desert Rose 2.0

Roundup Ready Alfalfa

Regions: South|West

Fall Dormancy: 8.3

Winterhardiness: -

Characteristics

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
- Strong aphid resistance; ideal for the southwest region
- Great when harvested as dry baled hay, haylage or greenchop; fast recovery after cutting
- Dark-green plant with excellent leaf retention; excellent stand persistence for numerous cuttings per year

CROPLAN Maxi Graze®

Regions: North|West

Fall Dormancy: 2

Winterhardiness: 2

Characteristics

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
- 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
- Exceptional winterhardiness and stand persistence

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CROPLAN MP 1000 Brand

Regions: Central|East|North|West

Fall Dormancy: 3

Winterhardiness: 3

Characteristics	
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

CROPLAN LegenDairy AA

Regions: Central|East|North|West

Fall Dormancy: 3.4

Winterhardiness: 1.1

Characteristics	
Yield Index	1
Persistence Index	1
Feed Quality	1
Disease Resistance	1
Insect Resistance	2
Nematode Resistance	3

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

CROPLAN TrailBlazer XHH

Regions: Central|East|North

Fall Dormancy: 4

Winterhardiness: 3

Characteristics	
Yield Index	3
Persistence Index	3
Feed Quality	3
Disease Resistance	3
Insect Resistance	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

CROPLAN Rebound AA

Regions: Central|East|North|West

Fall Dormancy: 4.4

Winterhardiness: 1.7

Characteristics	
Yield Index	1
Persistence Index	1
Feed Quality	2
Disease Resistance	1
Insect Resistance	3
Nematode Resistance	3

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

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CROPLAN Gunner AA

Regions: Central|East|North|South|West

Fall Dormancy: 4.8

Winterhardiness: 1.2

- AA disease package combined with high yield potential; also fits in areas of the U.S. where high salinity soils with can reduce alfalfa production
- Highest resistance (HR+) rating to Aphanomyces Root Rot Enhanced Multi-Race; HR+ to multi-race anthracnose disease (including race 5)
- Very early spring growth, fast regrowth and late fall growth; ideal for aggressive 5-cut hay or haylage harvest schedule
- Available with Apex™ Green Seed Coating; OMRI Listed® for organic use

CROPLAN Nimbus 2.0

Regions: Central|North|West

Fall Dormancy: 5

Winterhardiness: 2

- Developed for the western areas of the U.S. where high salinity soils with 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

CROPLAN Artesian Sun 6.3

Regions: South|West

Fall Dormancy: 6

Winterhardiness: 3.1

- Excellent conventional, dark green variety; 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

CROPLAN Sun Titan

Regions: South|West

Fall Dormancy: 8.4

Winterhardiness: -

- 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

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BRAND	Fall Dormancy	Winterhardiness	Yield Index	Persistence Index	Feed Quality Index	Grazing Tolerance 1	Baled Hay (Drydown)	Haylage (Regrowth)	Phytophthora Root Rot	Potato Leafhopper	Aphanomyces Race 1	Aphanomyces Race 2	Aphanomyces Enhanced Multi-Race (EMR)	Bacterial Wilt	Anthracnose Race 1	Anthracnose Multi-race	Fusarium Wilt	Verticillium Wilt	Spotted Alfalfa Aphid	Pea Aphid	Blue Alfalfa Aphid	Stem Nematode	Northern Root-Knot Nematode	Salt Germination Tolerance 2	Disease Resistance	Insect Resistance	Nematode Resistance
HarvXtra® Alfalfa																											
HVX TUNDRA II	3.3	1.2	2	1	H1	3	1	3	HR	-	HR	R	R	HR	HR	-	HR	HR	-	R	-	R	-	G	3	4	3
HVX MEGATRON X	4.3	1.9	1	1	H2	4	2	1	HR	-	HR+	HR+	HR+	HR	HR+	R	HR	HR	R	R	-	R	-	G	2	4	3
HVX MEGATRON AA	4.4	1.4	1	1	H2	4	2	1	HR	-	HR+	HR+	HR+	HR	HR+	HR+	HR	HR	R	HR	-	R	-	G	1	3	3
HVX 620RR BRAND	6.0	-	2	2	H3	5	1	1	HR	-	R	-	-	MR	R	-	HR	-	HR	HR	-	R	-	-	4	2	3
HVX 840RR BRAND	7.9	-	2	1	H3	5	1	1	R	-	-	-	-	R	R	-	R	-	R	HR	-	R	-	-	4	2	3
Roundup Ready® Alfalfa																											
GRAZE N HAY 3.10RR	2.9	1.8	3	1	3	1	1	4	HR	-	HR	-	-	HR	HR	-	HR	HR	R	-	-	-	-	G	3	4	5
RR PRESTEEZ 2.0	3.3	1.0	2	1	1	3	1	2	HR	-	HR	R	-	HR	HR	-	HR	HR	R	R	-	R	-	G	3	2	4
RR VAMOOSE	3.9	1.8	3	1	3	2	1	4	HR	HR	HR	-	-	HR	HR	-	HR	HR	R	MR	-	MR	-	G	3	3	4
MP4000RR BRAND	4.0	2.0	3	3	3	3	2	3	HR	-	R	-	-	HR	R	-	HR	HR	-	-	-	-	-	-	4	5	5
RR APHATRON 2XT	4.0	1.5	2	1	2	4	2	1	HR	-	HR	HR	R	HR	HR	-	HR	HR	-	HR	-	R	-	G	3	3	3
RR APHATRON AA	4.4	1.4	1	1	2	4	2	1	HR	-	HR+	HR+	HR+	HR	HR+	HR+	HR	HR	R	R	-	-	-	G	1	3	-
RR SALTIVA	4.8	2.5	1	2	3	4	1	1	HR	-	HR	-	-	HR	HR	-	HR	HR	R	HR	MR	HR	-	G	3	1	1
RR TONNICA	5.0	2.0	2	2	3	4	1	1	HR	-	HR	-	-	HR	HR	-	HR	HR	-	R	-	R	-	G	3	4	3
RR 6 SHOT PLUS	6.0	-	1	2	3	4	1	1	HR	-	R	-	-	R	HR	-	HR	HR	HR	HR	-	HR	-	G	4	2	1
RR DESERT ROSE 2.0	8.3	-	1	2	3	5	1	1	HR	-	R	-	-	R	R	-	R	-	HR	HR	-	HR	-	G	4	1	3

KEY

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

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

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

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ALFALFA

Conventional

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

KEY

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

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

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

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

ALFALFA

Product Name

Attributes

Placement

Product Name

Attributes

Placement

Product Name

Attributes

Placement

CROPLAN

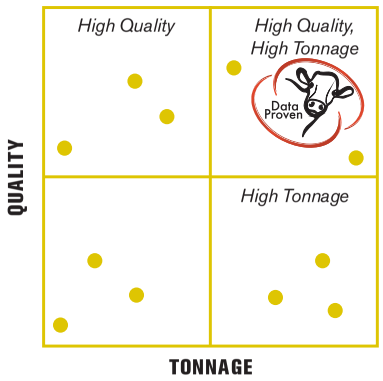
CORN SILAGE

THE PROOF MAY BE IN THE DATA, BUT IT'S ALSO IN THE YIELDS.

SELECT HYBRIDS FOR QUALITY AND TONNAGE

When selecting a corn silage hybrid, two considerations should rise to the top: quality to achieve milk/ton and tonnage for yield. In replicated Answer Plot® trials, we test CROPLAN® corn silage hybrids for both nutrient requirements and agronomic factors.

Look for the CROPLAN hybrids with the Data Proven icon. It represents the designation of high quality and high tonnage, consistently performing to deliver high quality and high tonnage potential.



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

WHEN PERFORMANCE IS ON THE LINE, THINK SILAGEFIRST® HYBRIDS

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

LEAFY HYBRIDS

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

FLOURY-LEAFY HYBRIDS

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

HIGH-ENERGY/HIGH-TONNAGE HYBRIDS

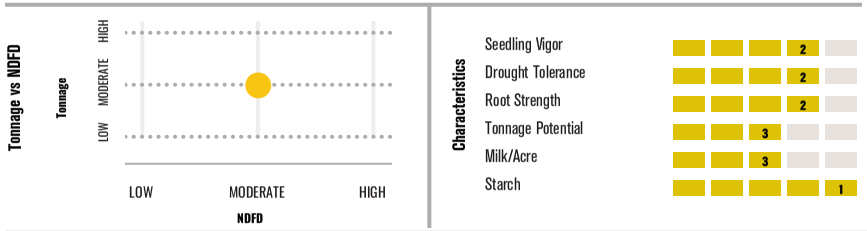
- More flexibility in harvest and feed out as grain or high-energy/high-tonnage silage when used in combination with leafy and floury-leafy hybrids.
- Appropriate for feeding after the 120-day post-ensiling period when reaching optimum starch and fiber digestibility.

CROPLAN®

CROPLAN CP3715SSPRO

SmartStax PRO

Relative Maturity: 97



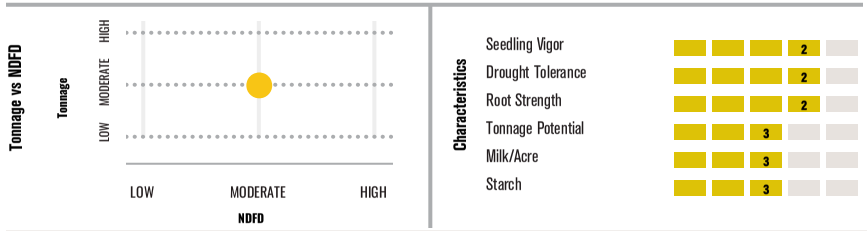
- Versatile SmartStax® PRO hybrid for known CRW acres
- Strong stress tolerance and solid agronomics
- Moderate RTN score; doesn't need aggressive N management to thrive
- Manage in areas where gray leaf spot is a concern

NEW

CROPLAN CP4024SSPRO

SmartStax PRO

Relative Maturity: 100

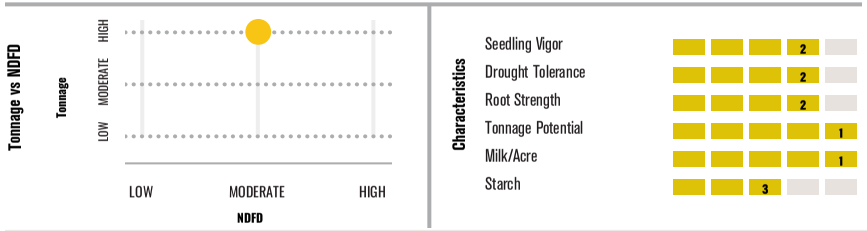


- Strong SmartStax® PRO hybrid for heavy CRW acres
- Solid agronomic and disease package
- Versatile hybrid that moves north well
- Acceptable Goss's wilt tolerance

CROPLAN CP4652SSPRO

SmartStax PRO

Relative Maturity: 106



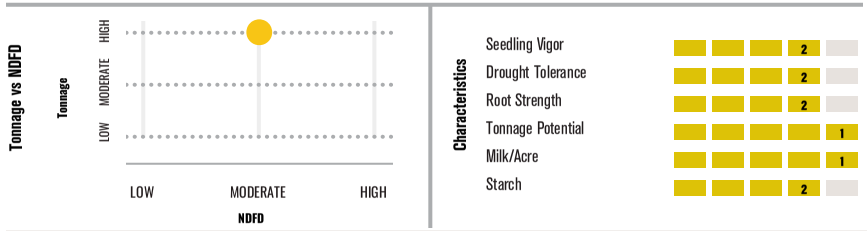
- Excellent tonnage and quality potential with SmartStax® PRO trait for continuous corn acres
- Excellent top end yield potential
- Responds favorably to additional nitrogen applications
- Maximize late season staygreen with fungicide application

NEW

CROPLAN CP4917SSPRO

SmartStax PRO

Relative Maturity: 109



- Tall SmartStax® PRO hybrid; outstanding tonnage potential
- Strong agronomic package; complements yield potential
- Best performance in zone and north
- Avoid fields with prolonged saturated soils

KEY

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

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

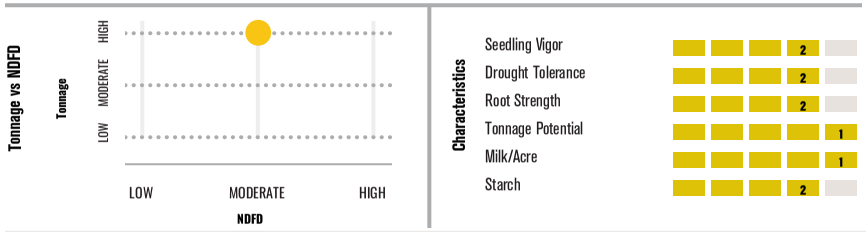
NEW

CROPLAN CP5320SSPRO

SmartStax PRO RIB COMPLETE

[VT2P/RIB]*

Relative Maturity: 113



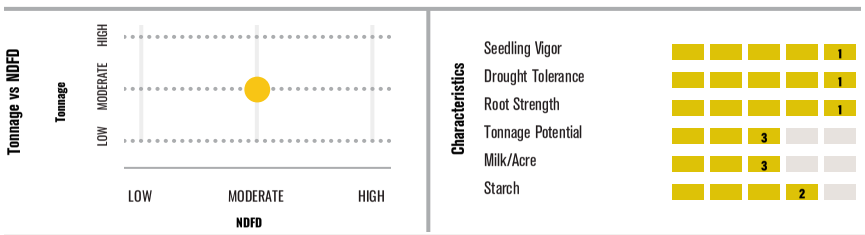
- Exceptional tonnage combined with SmartStax® PRO CRW protection
- Broadly adapted from east to west; handles marginal and top-end acres
- Moderate planting populations will enhance root strength
- Average emergence; caution when planting into cold soils

CROPLAN CP2845SS

SmartStax RIB COMPLETE

[VT2P/RIB]*

Relative Maturity: 89



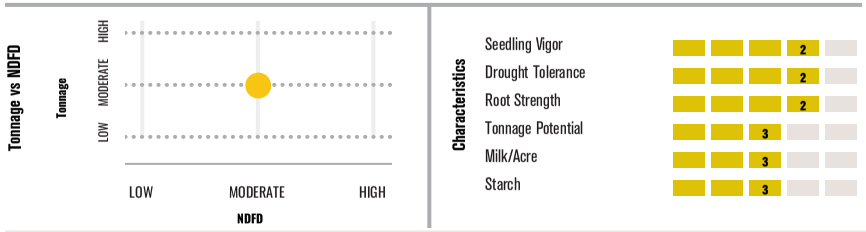
- High yield potential across all soil types and environments
- Plant early, great emergence in cooler soils; excellent conservation-till hybrid
- High response to nitrogen and population optimizes yield potential
- Manage placement for Goss"s wilt

CROPLAN CP3399SS

SmartStax RIB COMPLETE

[VT2P/RIB]*

Relative Maturity: 94



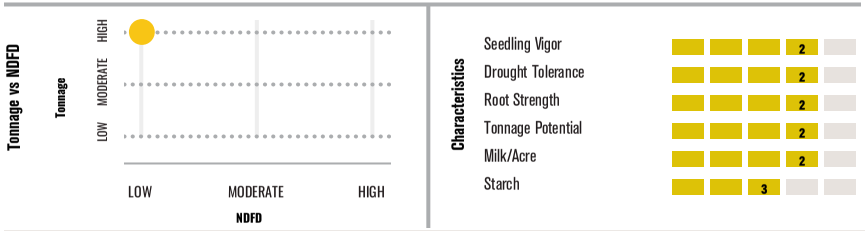
- Good combination of high tonnage potential and early maturity
- Above-average heat and moisture-stress tolerance
- Exceptional continuous corn-on-corn hybrid
- Some ear flex, although great stress tolerance allows for higher planting populations

NEW

CROPLAN CP3519SS

SmartStax RIB COMPLETE

Relative Maturity: 95



- SmartStax® hybrid enhanced by big tonnage and great plant health
- Strong agronomic package to complement yield potential
- Moderate management allows versatility across many acres
- Fungicide application recommended in areas with GLS pressure

KEY

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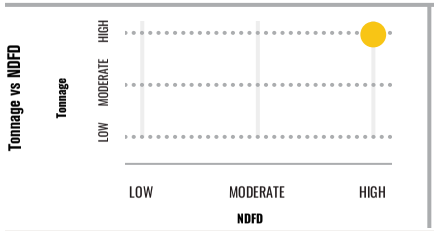
CROPLAN® corn silage hybrids that consistently perform for high-quality and high-tonnage in Answer Plot® trials.

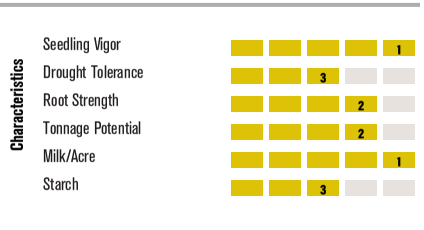
CROPLAN CP3735SS

SmartStax RIB COMPLETE

[VT2P/RIB]*

Relative Maturity: 97





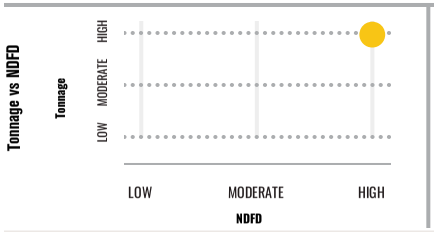
- Medium-height dual-purpose hybrid with excellent NDFD
- Excellent test weight and emergence with solid defensive traits
- Plant at moderate-to-high densities; fungicide application is recommended
- Keep in RM zone

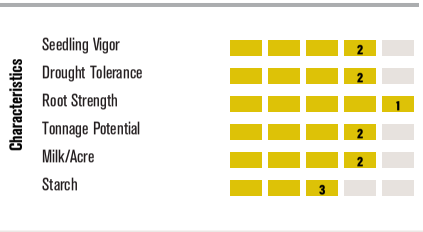
CROPLAN CP4079SS

SmartStax RIB COMPLETE

[VT2P/RIB]*

Relative Maturity: 100



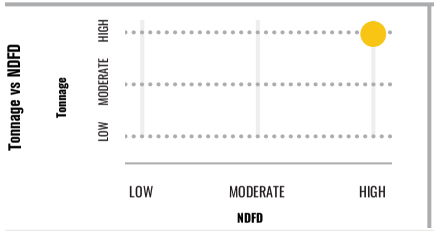


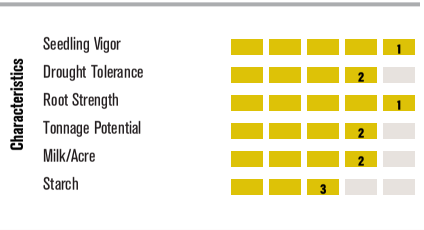
- Dual-purpose option for most soil types and yield environments
- Medium-tall hybrid with strong Goss"s wilt rating and seedling vigor; excellent roots
- Position at medium populations and manage nitrogen for high yield potential

CROPLAN CP4099SS

SmartStax RIB COMPLETE

Relative Maturity: 100





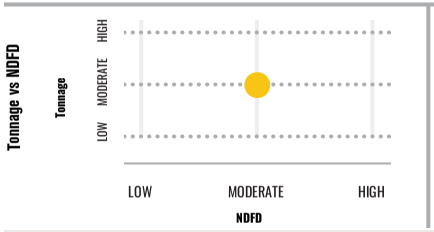
- Late-flowering hybrid with excellent roots and seedling vigor for early planting
- High response to intensive management; can also handle average acres
- Manage in areas with gray leaf spot and NCLB
- Tall hybrid with consistently high tonnage potential and above-average digestibility

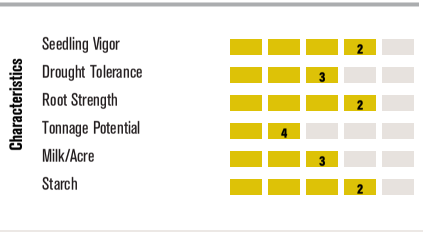
NEW

CROPLAN CP4246SS

SmartStax RIB COMPLETE

Relative Maturity: 102





- Dual-purpose SmartStax® hybrid for the continuous corn silage acre
- Strong roots and stalks
- Hybrid moves north well along with strong emergence and vigor
- Acceptable drought tolerance

KEY

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

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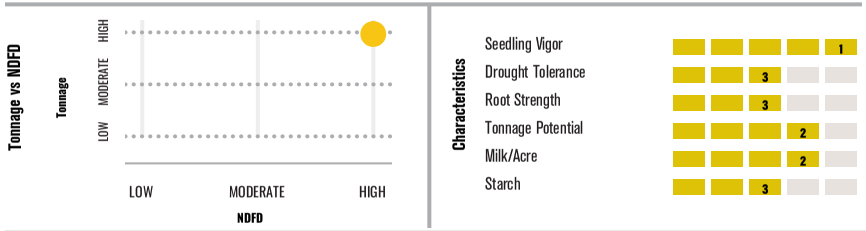
CROPLAN® corn silage hybrids that consistently perform for high-quality and high-tonnage in Answer Plot® trials.

CROPLAN CP4676SS

SmartStax RIB COMPLETE

Relative Maturity: 106



Characteristics	
Seedling Vigor	1
Drought Tolerance	3
Root Strength	3
Tonnage Potential	2
Milk/Acre	2
Starch	3

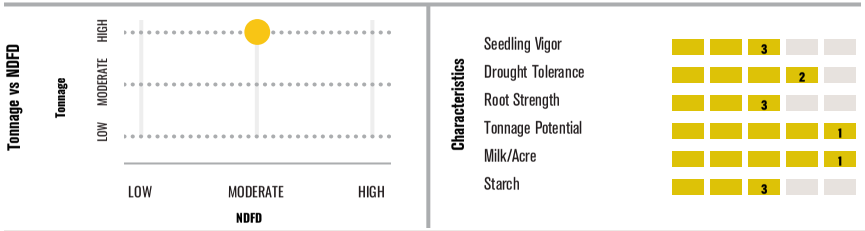
- Versatile hybrid; position and manage for high yield potential
- Medium-height hybrid with excellent emergence, seedling vigor and test weight
- Position at medium populations and manage nitrogen for high yield potential
- Fungicide application recommended in areas with GLS pressure

NEW

CROPLAN CP4770SS

SmartStax RIB COMPLETE

Relative Maturity: 107



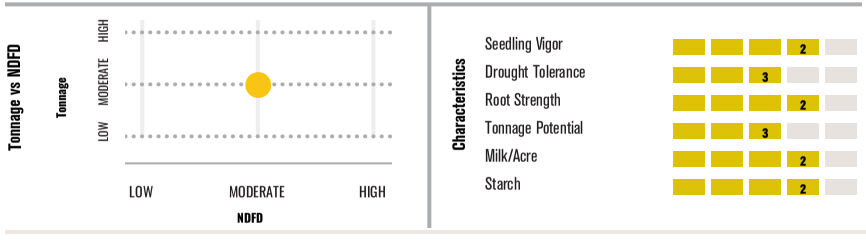
Characteristics	
Seedling Vigor	3
Drought Tolerance	2
Root Strength	3
Tonnage Potential	1
Milk/Acre	1
Starch	3

- Big-time tonnage and milk per acre potential
- SmartStax® hybrid with great agronomics
- Semi-fixed ear prefers moderate to moderately high populations
- Acceptable stalks and roots

CROPLAN CP4880SS

SmartStax RIB COMPLETE

Relative Maturity: 108



Characteristics	
Seedling Vigor	2
Drought Tolerance	3
Root Strength	2
Tonnage Potential	3
Milk/Acre	2
Starch	2

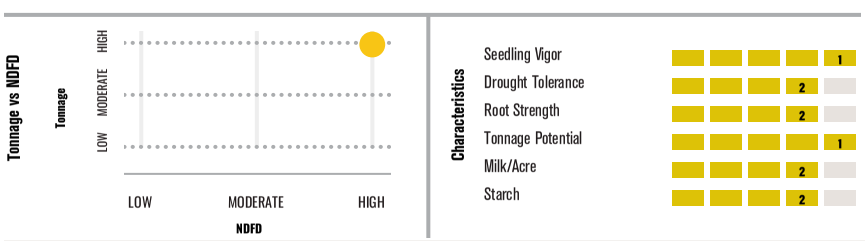
- Best performance on high yield potential and well drained soils
- SmartStax® hybrid with exceptional top end yield potential
- Strong stalks and roots
- High tonnage potential, despite being a medium-short statured hybrid

CROPLAN CP5073SS

[VT2P/RIB]*

SmartStax RIB COMPLETE

Relative Maturity: 110



Characteristics	
Seedling Vigor	1
Drought Tolerance	2
Root Strength	2
Tonnage Potential	1
Milk/Acre	2
Starch	2

- 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

KEY

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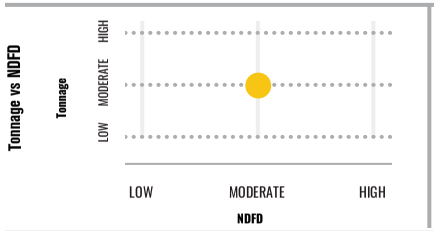
CROPLAN® corn silage hybrids that consistently perform for high-quality and high-tonnage in Answer Plot® trials.

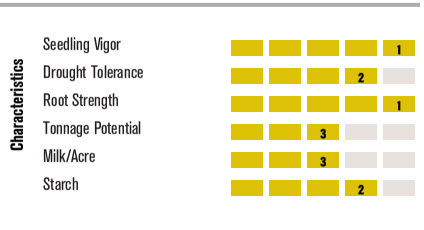
CROPLAN CP5115SS

SmartStax RIB COMPLETE

[VT2P/RIB]*

Relative Maturity: 111





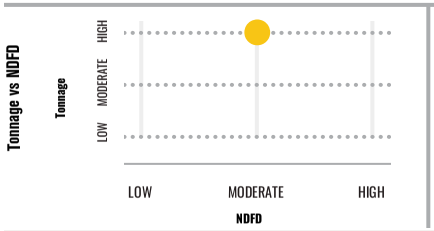
- Medium-tall, dual-purpose hybrid with high tonnage potential at higher seeding rates
- Excellent emergence, seedling vigor and roots
- Semi-flex ear; plant at moderate populations
- Use caution on Goss"s wilt acres; keep in RM zone

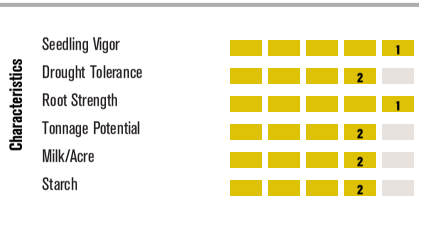
CROPLAN CP5370SS

SmartStax RIB COMPLETE

[VT2P/RIB]*

Relative Maturity: 113



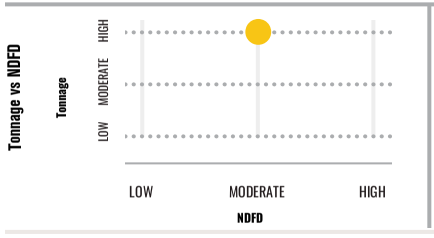


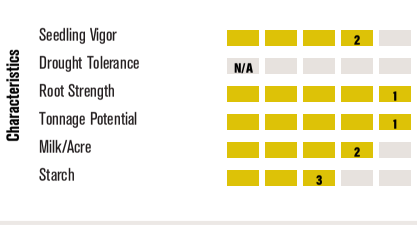
- Tall hybrid with very high tonnage potential and above average starch content
- Excellent stalks and roots
- Optimize yield potential with nitrogen management and plant densities
- Best positioned on rotated acres; ear tip back influenced by genetics

CROPLAN CP2692D

Duracade™ Artesian®

Relative Maturity: 86



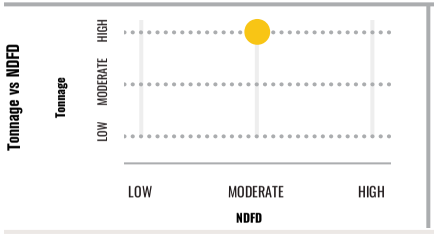


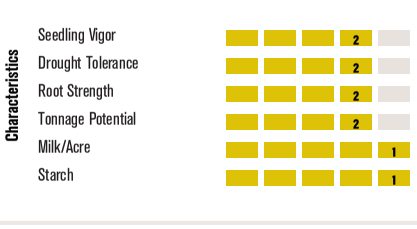
- Duracade™ and Artesian® traits with CRW protection; handles variability and multiple soil types well
- Medium-tall plant with strong stalks; dual-purpose option
- Low response to population score; good potential at lower plant densities

CROPLAN CP3852TRE

Trecepta RIB COMPLETE

Relative Maturity: 98





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

KEY

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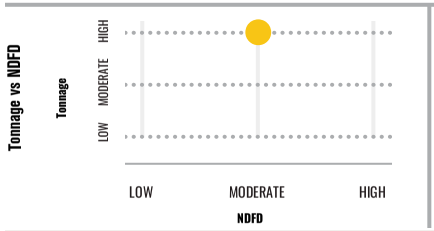
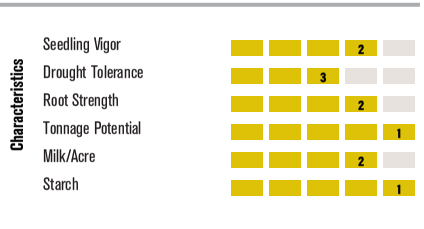
CROPLAN® corn silage hybrids that consistently perform for high-quality and high-tonnage in Answer Plot® trials.

CROPLAN CP4516TRE

Trecepta RIB COMPLETE

Relative Maturity: 105





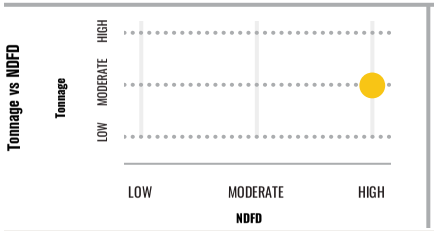
- Excellent tonnage potential when placed on average to above average acres
- Strong roots, test weight and Goss" wilt tolerance
- High response to intensive management; can also handle average acres
- Manage late season intactness with a fungicide application in high yield environments

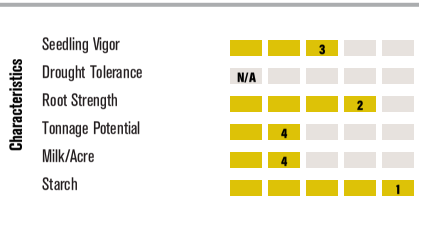
NEW

CROPLAN CP4840TRE

Trecepta RIB COMPLETE

Relative Maturity: 108





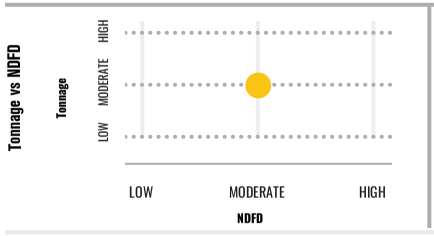
- Great quality silage; respectable tonnage potential
- Strong roots and stalks; strong drought tolerance
- Excellent high pH tolerance
- Average emergence; caution when planting into cold soils

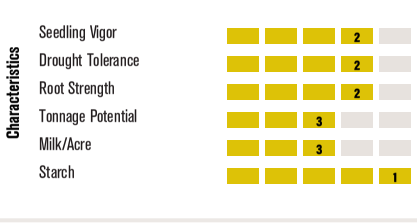
NEW

CROPLAN CP5682TRE

Trecepta RIB COMPLETE

Relative Maturity: 116



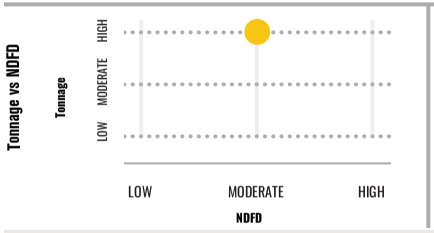


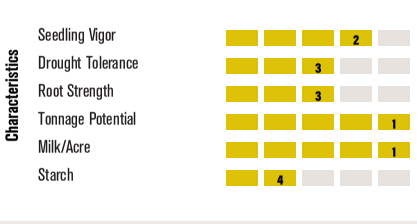
- Trecepta® hybrid with good tonnage and milk potential
- Strong stalks and emergence
- Semi-flex ear allows variable populations to match a variety of acres
- Acceptable roots and drought tolerance

CROPLAN CP5760TRE

Trecepta RIB COMPLETE

Relative Maturity: 117





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

KEY

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

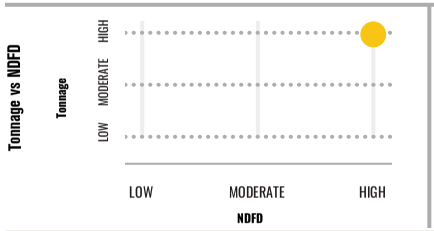
Product descriptions and ratings are generated from Answer Plot® trials and/or from the genetics supplier and my change as additional data is gathered.

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

CROPLAN CP5893TRE

Trecepta RIB COMPLETE

Relative Maturity: 118



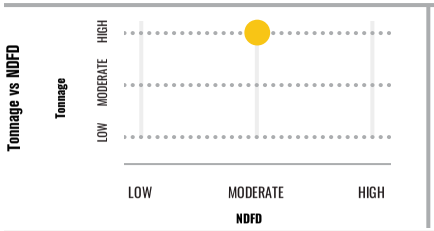
Characteristics	
Seedling Vigor	1
Drought Tolerance	2
Root Strength	2
Tonnage Potential	1
Milk/Acre	1
Starch	3

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

CROPLAN CP2790VT2P

VTDoublePRO RIB COMPLETE

Relative Maturity: 87



Characteristics	
Seedling Vigor	1
Drought Tolerance	1
Root Strength	2
Tonnage Potential	2
Milk/Acre	3
Starch	1

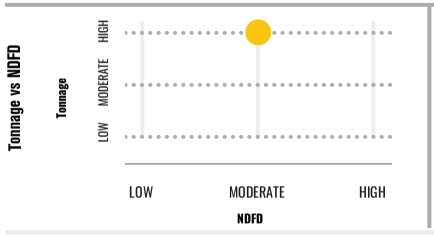
- High-tonnage potential with strong ear flex and drought tolerance
- Excellent seedling vigor for early planting
- Strong ear flex with a moderate response to nitrogen; broad range of growing conditions
- Manage for late-season stalks and Goss's wilt

CROPLAN CP2965VT2P

VTDoublePRO RIB COMPLETE

[RR]

Relative Maturity: 89



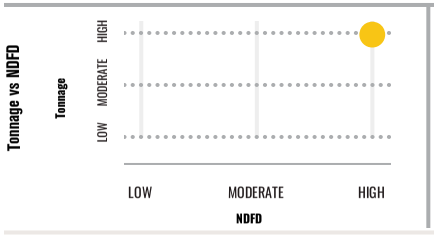
Characteristics	
Seedling Vigor	1
Drought Tolerance	2
Root Strength	2
Tonnage Potential	2
Milk/Acre	2
Starch	3

- 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

CROPLAN CP3490VT2P

VTDoublePRO RIB COMPLETE

Relative Maturity: 94



Characteristics	
Seedling Vigor	1
Drought Tolerance	2
Root Strength	3
Tonnage Potential	1
Milk/Acre	1
Starch	2

- 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

KEY

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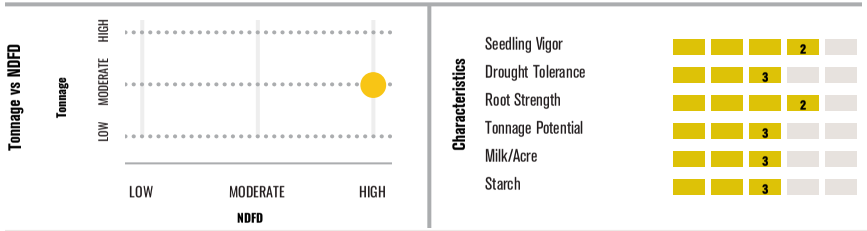
CROPLAN® corn silage hybrids that consistently perform for high-quality and high-tonnage in Answer Plot® trials.

CROPLAN CP3575VT2P

VTDoublePRO RIB COMPLETE

Relative Maturity: 95

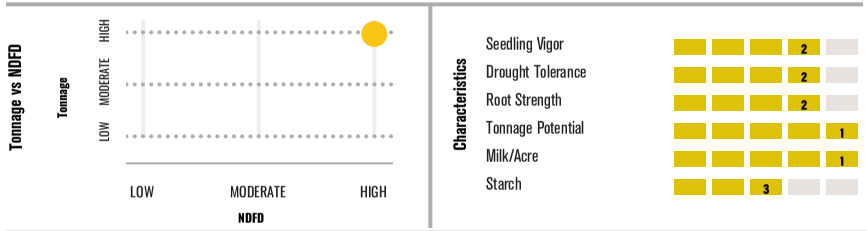


- Dual-purpose hybrid with above-average NDFD and starch content
- Excels in moderate- to high-yield environments and moves across all soil types
- Manage for Goss's wilt
- Has good ear flex for low plant densities, but will respond to higher management.

CROPLAN CP3724VT2P

VTDoublePRO RIB COMPLETE

Relative Maturity: 97



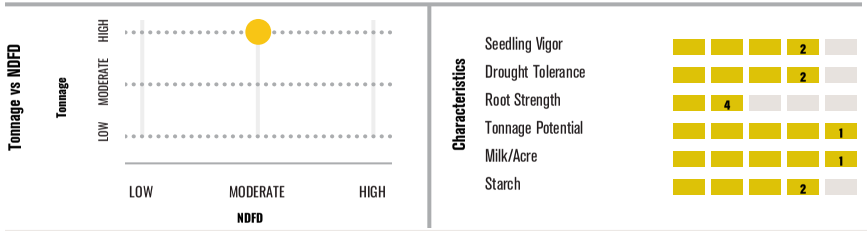
- Dual-purpose hybrid with excellent tonnage potential
- Great late season agronomics with strong standability
- Responds well both to aggressive nitrogen fertility and fungicide applications
- Works well in tough, variable or ideal yield environments

NEW

CROPLAN CP3790VT2P

VTDoublePRO RIB COMPLETE

Relative Maturity: 97

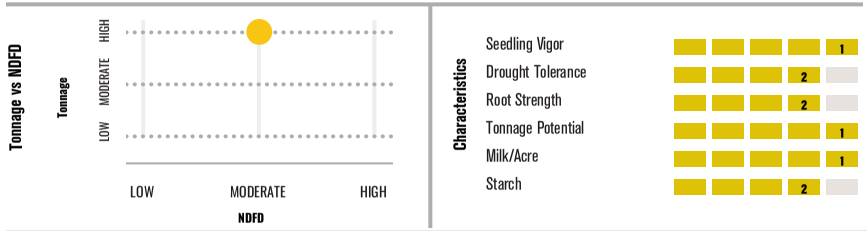


- Excellent tonnage potential
- Strong emergence and stalks
- Great flex ear and strong drought tolerance
- Don't over populate to aid in root development

CROPLAN CP3899VT2P

VTDoublePRO RIB COMPLETE

Relative Maturity: 98



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

KEY

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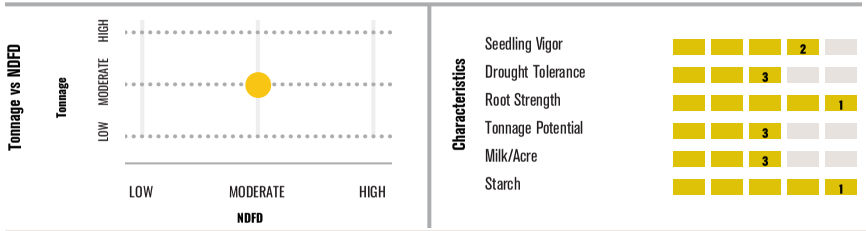
CROPLAN® corn silage hybrids that consistently perform for high-quality and high-tonnage in Answer Plot® trials.

CROPLAN CP3980VT2P

VTDoublePRO RIB COMPLETE

Relative Maturity: 99



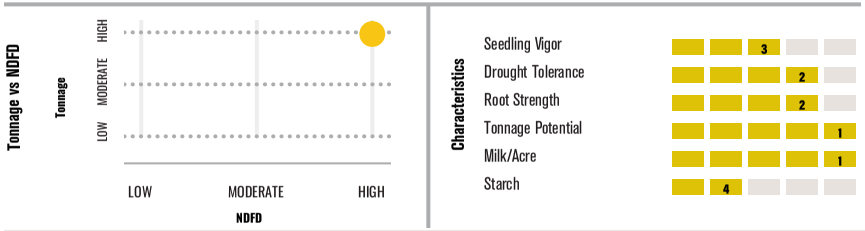
Characteristics	
Seedling Vigor	2
Drought Tolerance	3
Root Strength	1
Tonnage Potential	3
Milk/Acre	3
Starch	1

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

CROPLAN CP4100SVT2P

VTDoublePRO RIB COMPLETE

Relative Maturity: 101



Characteristics	
Seedling Vigor	3
Drought Tolerance	2
Root Strength	2
Tonnage Potential	1
Milk/Acre	1
Starch	4

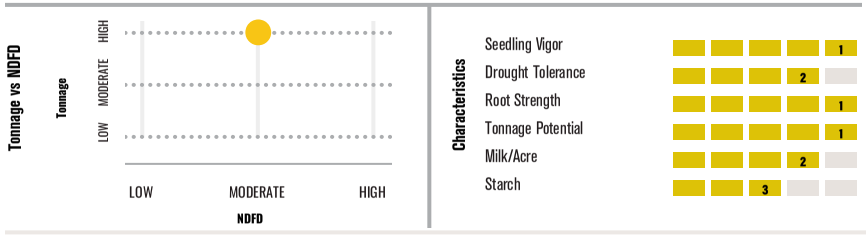
- Highly digestible leafy-type silage hybrid with high yield potential
- Tall white cob hybrid does best in medium-high populations
- Excellent performance for high tonnage and high-quality potential
- Average seedling vigor

CROPLAN CP4188VT2P

[SS/RIB*, CONV]

VTDoublePRO RIB COMPLETE

Relative Maturity: 101



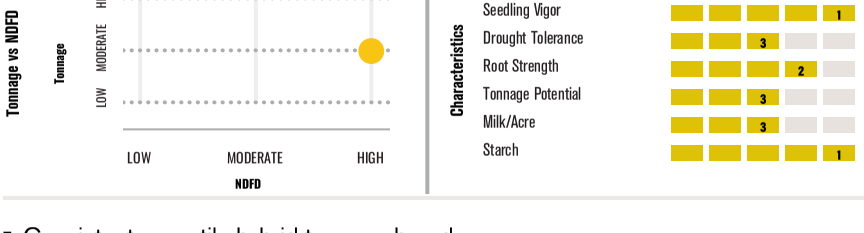
Characteristics	
Seedling Vigor	1
Drought Tolerance	2
Root Strength	1
Tonnage Potential	1
Milk/Acre	2
Starch	3

- 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

CROPLAN CP4444VT2P

VTDoublePRO

Relative Maturity: 104



Characteristics	
Seedling Vigor	1
Drought Tolerance	3
Root Strength	2
Tonnage Potential	3
Milk/Acre	3
Starch	1

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

KEY

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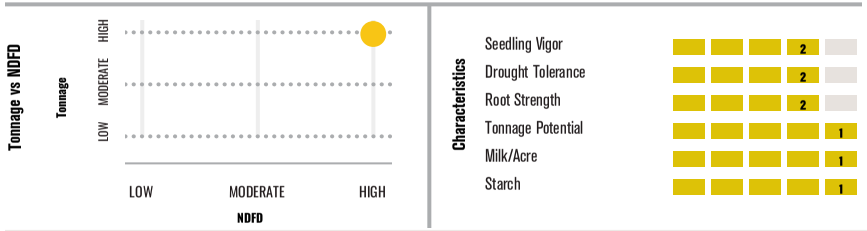
CROPLAN® corn silage hybrids that consistently perform for high-quality and high-tonnage in Answer Plot® trials.

CROPLAN CP5244VT2P

VTDoublePRO RIB COMPLETE

Relative Maturity: 112

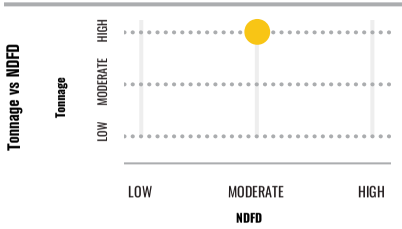


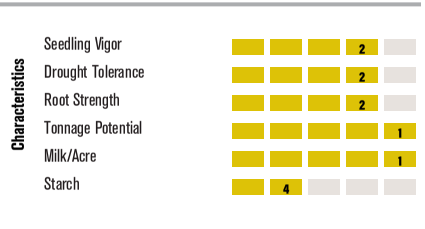
- High tonnage potential adapted for many soil types and yield levels
- Robust plant with strong heat and drought tolerance allow broad use of this high-starch dual-purpose hybrid
- Ear flex and stress tolerance drive performance in a wide range of populations and soil types
- Fungicide application increases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

CROPLAN CP5550VT2P

VTDoublePRO RIB COMPLETE

Relative Maturity: 115





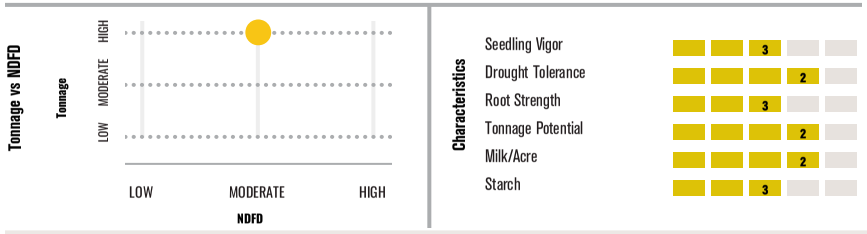
- Position in average to high-yield-potential acres; dual-purpose option
- Solid agronomic and disease package
- Semi-flex ear for moderate to moderately high planting densities
- Acceptable Goss"s wilt tolerance

CROPLAN CP5678VT2P

VTDoublePRO RIB COMPLETE

[SS/RIB]*

Relative Maturity: 116

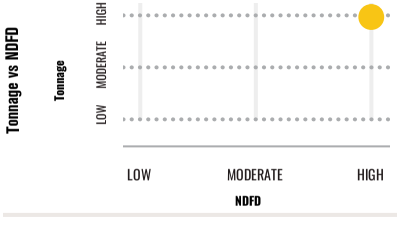


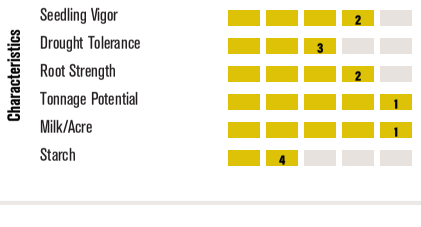
- Medium-height hybrid with wide leaves and girthy stalk that contributes to solid tonnage potential
- Tough hybrid; good stress tolerance; has a semi-flex ear
- Full-season dual-purpose hybrid with great stalks and roots
- Excels with high nitrogen and fungicides, and medium-high populations

CROPLAN CP5700SVT2P

VTDoublePRO RIB COMPLETE

Relative Maturity: 117





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

KEY

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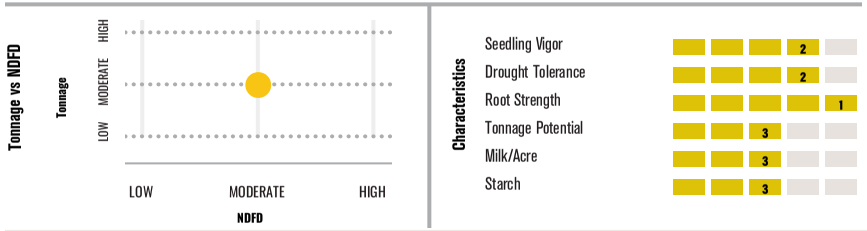
CROPLAN® corn silage hybrids that consistently perform for high-quality and high-tonnage in Answer Plot® trials.

CROPLAN CP5789VT2P

VTDoublePRO RIB COMPLETE

Relative Maturity: 117

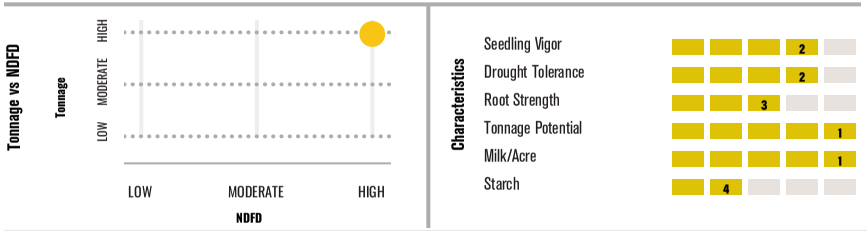


- Taller dual-purpose hybrid with high tonnage potential across multiple environments
- Tall plant with excellent stalks, roots, staygreen and test weight
- Position at medium-high populations with moderate nitrogen management
- Fungicide application recommended

CROPLAN CP5900SVT2P

VTDoublePRO RIB COMPLETE

Relative Maturity: 119



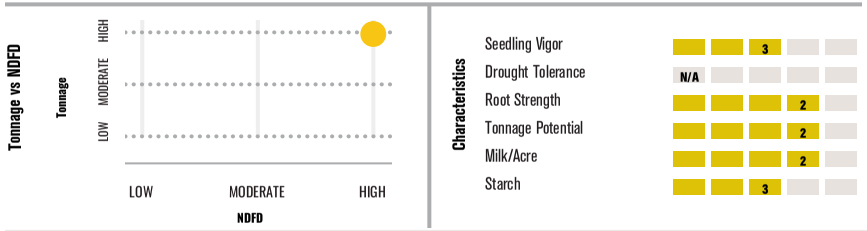
- Strong heat tolerance; exceptional high pH soil tolerance
- Very good southern rust tolerance; good for corn-on-corn acres
- Decrease populations in heavy soils prone to flooding
- Tall silage hybrid with very high tonnage potential and above-average digestibility

NEW

CROPLAN CP4839PCE

POWERCORE Enlist

Relative Maturity: 108



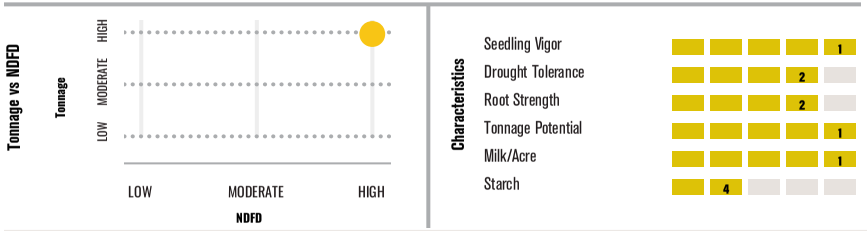
- Great tonnage potential combined with high quality
- Excellent roots and strong stalks
- Works well across variable acres and variable populations
- Average emergence; caution when planting into cold soils

NEW

CROPLAN CP5329PCE

POWERCORE Enlist

Relative Maturity: 113



- PowerCore® Enlist® hybrid; exceptional tonnage quality and digestibility
- Excellent stalks and strong roots; strong greensnap tolerance
- Big ear flex allows moderate planting populations
- Acceptable drought, Goss's wilt and southern rust tolerance

KEY

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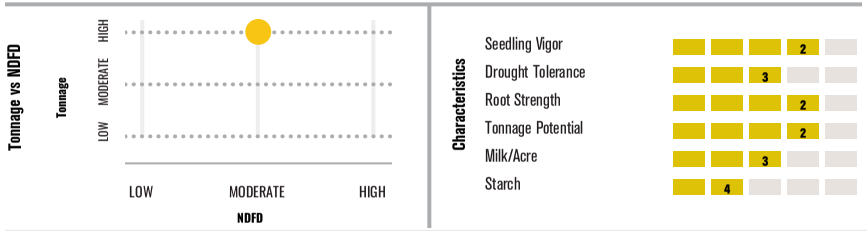
CROPLAN® corn silage hybrids that consistently perform for high-quality and high-tonnage in Answer Plot® trials.

CROPLAN CP184RR

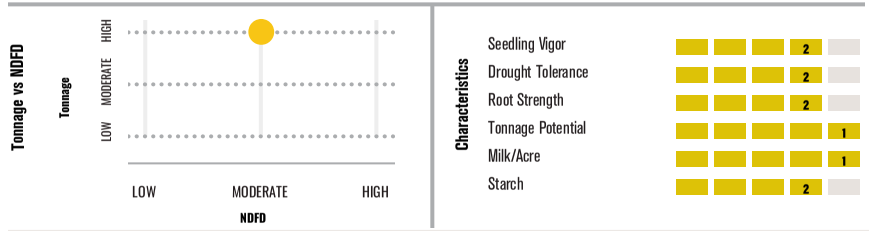
Relative Maturity: 80



- 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

CROPLAN CP3200SRR

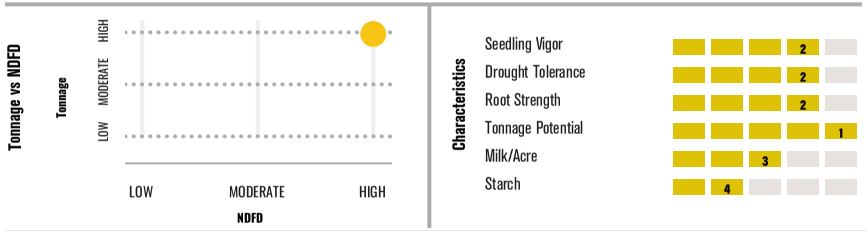
Relative Maturity: 93



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

CROPLAN CP4200S/RR

Relative Maturity: 102



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

KEY

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

CORN SILAGE

	BRAND	Relative Maturity	Plant Height 1	Ear Height 2	Ear Flex 3	Flower Date 4	Kernel Rows	Response to Population [RTP] 5	Response to Nitrogen [RTN] 5	Response to Fungicide [RTF] 5	Seedling Vigor	Root Strength	Stalk Quality	Gray Leaf Spot	NCLB	Goss's Wilt	Drought Tolerance	Tonnage Potential	# Milk/Acre	% NDFD	% NDF	% Starch	% Crude Protein	TDN	Calibrate® Starch Rating 6	Calibrate® Fiber Rating 7
	SmartStax® PRO																									
	CP3715SSPRO*	97	M-T	M-H	SF	M-E	18-20	M	M	M	2	2	2	4	2	2	2	3	3	2	1	1	4	1	M	M
NEW	CP4024SSPRO*	100	M	M	SF	M	16-18	H	M	H	2	2	2	3	2	3	2	3	3	3	2	3	3	3	NA	NA
	CP4652SSPRO*	106	M-T	H	SF	M	14-16	L	H	M	2	2	2	4	3	2	2	1	1	4	3	3	4	3	M	M
NEW	CP4917SSPRO*	109	T	M-H	SF	M-E	14-16	L	M	H	2	2	2	2	2	2	2	1	1	3	4	2	5	4	NA	NA
NEW	CP5320SSPRO*	113	T	H	SF	M-L	16-18	M	H	M	2	2	2	3	2	2	2	1	1	4	4	2	3	2	NA	NA
	SmartStax®																									
	CP2845SS*	89	M-T	M	SF	E	16-18	H	H	H	1	1	2	NA	3	4	1	3	3	4	3	2	2	4	MS	MS
	CP3399SS*	94	M	M	SF	M	16-18	M	H	M	2	2	2	3	3	4	2	3	3	4	3	3	3	4	MS	MS
NEW	CP3519SS*	95	M-T	M-H	SF	M	16-18	M	M	M	2	2	2	4	2	3	2	2	2	5	3	3	4	3	NA	NA
	CP3735SS*	97	M	M	SF	M	16-18	M	H	H	1	2	2	3	3	3	3	2	1	1	3	3	2	1	MF	MF
	CP4099SS*	100	M-T	M	SF	L	16-20	H	H	H	1	1	2	4	4	3	2	2	2	2	3	3	3	3	S	MS
NEW	CP4246SS*	102	M-T	M	SF	M	16-18	M	H	H	2	2	2	3	3	2	3	4	3	4	2	2	2	2	NA	NA
	CP4676SS*	106	M	M	SF	M	16-18	M	H	M	1	3	3	3	2	3	3	2	2	1	2	3	2	1	MF	F
NEW	CP4770SS*	107	M-T	M	SD	L	16-18	M	H	H	3	3	3	3	2	1	2	1	1	3	2	3	2	2	NA	NA
	CP4880SS*	108	M-S	M	SD	M	14-16	H	M	H	2	2	2	3	3	NA	3	3	2	3	5	2	3	1	M	M
	CP5073SS*	110	M	M-H	SF	M	16-18	M	H	H	1	2	3	3	2	3	2	1	2	2	2	2	1	2	MF	MF
	CP5115SS*	111	M-T	M-H	SF	M-L	18-20	H	H	M	1	1	2	3	2	4	2	3	3	3	2	2	3	3	MS	M
	CP5370SS*	113	T	M-H	SF	M	18-20	H	H	M	1	1	1	3	2	4	2	2	2	3	2	2	3	3	M	M
	Duracade™																									
	CP2692D	86	M-T	M	SF	M	16-18	M	M	M	2	1	1	NA	1	1	NA	1	2	3	2	3	2	3	NA	NA

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L = Late
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5 RTP/RTN/RTCC/RTF Ratings
L = Low Response
M = Moderate Response
H = High Response
TBD = To be tested in 2024

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
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Ratings based on 2018-2020 silage samples.

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CROPLAN®

CORN SILAGE

	BRAND	Relative Maturity	Plant Height [1]	Ear Height [2]	Ear Flex [3]	Flower Date [4]	Kernel Rows	Response to Population [RTP]	Response to Nitrogen [RTN] [5]	Response to Fungicide [RTF] [5]	Seedling Vigor [5]	Root Strength	Stalk Quality	Gray Leaf Spot	NCLB	Goss's Wilt	Drought Tolerance	Tonnage Potential	# Milk/Acre	% NDFD	% NDF	% Starch	% Crude Protein	TDN	Calibrate® Starch Rating [6]	Calibrate® Fiber Rating [7]
	Trecepta®																									
	CP3852TRE*	98	M-T	M-H	FL	L	16-18	M	M	H	2	2	2	3	3	2	2	2	1	3	3	1	5	3	M	M
	CP4516TRE*	105	M	M	SF	M-E	16-18	M	M	H	2	2	3	3	3	2	3	1	2	4	2	1	4	4	MS	MS
NEW	CP4840TRE*	108	M-T	M	SF	M	18-20	M	L	H	3	2	2	3	3	3	NA	4	4	1	2	1	5	3	NA	NA
NEW	CP5682TRE*	116	M-T	M-H	SF	M-L	16-18	M	H	H	2	2	2	2	2	3	2	3	3	3	1	1	4	3	NA	NA
	CP5760TRE*	117	T	M-H	SF	NA	16-18	L	H	M	2	3	3	3	3	NA	3	1	1	3	2	4	5	3	M	M
	CP5893TRE*	118	M	M-L	SF	L	18-20	M	M	M	1	2	2	2	2	3	2	1	1	2	3	3	4	3	MS	M
	VT Double PRO®																									
	CP2790VT2P*	87	M-T	M	SF	E	16-18	L	M	H	1	2	3	3	2	4	1	2	3	3	3	1	3	3	NA	NA
	CP2965VT2P*	89	M	M	SF	M	14-16	M	H	H	1	2	1	3	3	3	2	2	2	3	3	3	3	2	MF	M
	CP3490VT2P	94	M-T	M-H	SF	M-L	18-20	M	L	H	1	3	3	3	3	3	2	1	1	2	3	2	3	2	M	M
	CP3575VT2P*	95	M	M	SF	M-L	16-18	H	H	L	2	2	2	3	2	4	3	3	3	1	3	3	3	1	M	M
	CP3724VT2P*	97	M-T	M	SF	M	16-18	M	H	H	2	2	2	2	3	2	2	1	1	2	3	3	3	2	MS	MS
NEW	CP3790VT2P*	97	T	M-H	SF	M-L	16-18	L	M	H	2	4	2	4	3	2	2	1	1	3	4	2	5	2	NA	NA
	CP3899VT2P*	98	M-T	M-H	SF	L	16-20	H	H	H	1	2	2	4	4	3	2	1	1	3	3	2	3	3	MF	M
	CP3980VT2P	99	M-T	M-H	SF	M	14-16	M	M	H	2	1	3	2	NA	3	3	3	3	3	2	1	3	3	M	MS
	CP4079VT2P*	100	M-T	M	SF	M	14-16	M	M	H	2	1	3	3	3	2	2	2	2	2	2	3	3	2	M	MF
	CP4100SVT2P*	101	T	M	SF	M	16-18	H	NA	M	3	2	2	3	3	2	2	1	1	2	3	4	3	2	MF	MF
	CP4188VT2P*	101	M	M	SF	M	16-18	M	M	M	1	1	2	3	2	2	2	1	2	3	2	3	2	2	MS	MS
	CP4444VT2P*	104	T	M-H	SF	M-L	14-16	H	L	L	1	2	2	3	3	3	3	3	3	2	1	1	4	3	MF	M
	CP5244VT2P	112	M-T	M-H	SF	E	16-18	M	M	M	2	2	3	3	2	3	2	1	1	2	2	1	3	3	M	MF

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CROPLAN®

CORN SILAGE

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VT Double PRO® (Continued)																									
CP5550VT2P*	115	M-T	M-H	SF	M	14-16	M	M	M	2	2	2	3	3	3	2	1	1	3	4	4	3	2	MS	MS
CP5678VT2P*	116	M	M	SF	M	14-16	M	H	M	3	3	2	3	2	3	2	2	2	4	4	3	2	2	M	M
CP5700SVT2P*	117	M-T	M	SF	M	16-18	M	H	M	2	2	NA	NA	NA	NA	3	1	1	2	4	4	2	2	MF	MF
CP5789VT2P*	117	T	M-H	SF	M	16-18	H	M	H	2	1	1	3	1	4	2	3	3	4	3	3	3	3	M	M
CP5900SVT2P*	119	T	M-H	SF	M	16-18	M	H	NA	2	3	NA	NA	NA	NA	2	1	1	2	3	4	1	2	M	M
PowerCore® Enlist®																									
NEW CP4839PCE*	108	M-T	M	SF	L	16-20	H	NA	NA	3	2	1	2	2	2	NA	2	2	1	4	3	3	4	NA	NA
NEW CP5329PCE*	113	M-T	M	SF	M-L	16-18	M	NA	NA	1	2	2	3	2	3	2	1	1	1	3	4	5	1	NA	NA
Roundup Ready® 2 Corn																									
CP184RR	80	M-T	M	FL	E	16-18	M	L	M	2	2	3	NA	3	5	3	2	3	3	3	4	3	4	S	NA
CP3200SRR	93	T	M	FL	M	14-16	L	H	H	2	2	2	3	3	2	2	1	1	2	2	2	3	3	MF	MF
CP4200S/RR	102	T	M	FL	M	14-16	L	M	M	2	2	3	NA	3	2	2	1	3	2	5	4	1	4	MF	MF

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CROPLAN®

CORN SILAGE

Product Name

Attributes

Placement

Product Name

Attributes

Placement

Product Name

Attributes

Placement

FORAGE SORGHUM

THIS SORGHUM CROP IS IN IT TO WIN IT ALL SEASON LONG.

SELECT THE RIGHT FORAGE TYPE FOR YOUR OPERATION

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

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

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

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

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

Brachytic plant stature with finer stalks, very leafy, stress tolerant, and prolific tillering.

SELECT THE HYBRID WITH THE TRAIT YOU NEED

BROWN MIDRIB–6 TRAIT

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

BRACHYTIC TRAIT

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

PHOTOPERIOD SENSITIVITY TRAIT

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

SUGARCANE APHID (SCA)

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

HERBICIDE TOLERANCE

- igrowth® and DT™ Trait herbicide tolerant hybrids are now available to help protect against hard to control grass and broadleaf weeds.

CROPLAN BMR 3211

Regions: Central|East|North|Double-crop

Maturity: Early

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

NEW

CROPLAN BMR 3212

Regions: Central|East|North|Double-crop

Maturity: Early

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

CROPLAN 3506

Regions: Central|South|West

Maturity: Mid

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

CROPLAN 3541 BMR Leafy AT

Regions: Central|South|West

Maturity: Mid

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

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Hybrid Number System
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Fourth Number: Series number or new variety type

NEW

CROPLAN 3661 DT

DT™ TRAIT

Regions: Central|East|North|South|West

Maturity: Mid

Characteristics	
Stress Tolerance	2
Disease Tolerance	2
Forage Quality	N/A
Dry Hay	4
Silage	1
Grazing	4

- DT™ trait for in-season control of grassy weeds in herbicide tolerant sorghum
- Very good yield potential; good quality from very leafy, dense canopy
- Highly versatile placement across growing regions with great stress tolerance
- Recommended seeding rate: 60-80K seeds per acre at 1-1 1/2 in. deep, depending on soil moisture

CROPLAN IQ 3501

Regions: Central|South|West

Maturity: Mid

Characteristics	
Stress Tolerance	2
Disease Tolerance	1
Forage Quality	2
Dry Hay	5
Silage	1
Grazing	5

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

CROPLAN 3681 AT

Regions: Central|South|West

Maturity: Mid/Late

Characteristics	
Stress Tolerance	2
Disease Tolerance	1
Forage Quality	3
Dry Hay	5
Silage	1
Grazing	5

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

CROPLAN 3731 BMR Leafy

Regions: Central|South|West

Maturity: Late

Characteristics	
Stress Tolerance	2
Disease Tolerance	1
Forage Quality	1
Dry Hay	5
Silage	1
Grazing	5

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

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CROPLAN 3851 IG

igrowth®

Regions: Central|South

Maturity: Late

Characteristics	
Stress Tolerance	2
Disease Tolerance	1
Forage Quality	2
Dry Hay	5
Silage	1
Grazing	5

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

CROPLAN Greentreat® 1531

Regions: Central|East|North|South|West

Maturity: Heads at ~50 days

Characteristics	
Stress Tolerance	1
Disease Tolerance	2
Forage Quality	1
Dry Hay	1
Silage	3
Grazing	1

- Excellent forage quality of the BMR-6 gene paired with the brachytic dwarf trait; lower cutting height and high leaf-to-stem ratio
- Excellent variety for drought tolerance and heat stress; strong disease package for humid areas and anthracnose risk
- Dry stalk (~5% less) paired with fine stems allows for easier transition into dry hay use
- Forage quality may be compromised without proper harvest management (40 days or 40 in.); harvest prior to 50 days before head is initiated
- Recommended seeding rate: 20-25 lbs. per acre at 1 in. (by drill)

CROPLAN Honey Sweet AT

Regions: Central|East|North|South|West

Maturity: Heads at ~50 days

Characteristics	
Stress Tolerance	2
Disease Tolerance	2
Forage Quality	4
Dry 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 GUARDIAN AT

Regions: Central|East|North|South|West

Maturity: Heads at ~60 days

Characteristics	
Stress Tolerance	3
Disease Tolerance	3
Forage Quality	2
Dry Hay	1
Silage	3
Grazing	1

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

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NEW

CROPLAN Greentreat® ADVANCE

Regions: Central|East|North|South|West

Maturity: Heads at ~75 days

Characteristics	
Stress Tolerance	2
Disease Tolerance	2
Forage Quality	N/A
Dry Hay	1
Silage	3
Grazing	1

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

NEW

CROPLAN Greentreat® EVRGRO

Regions: Central|East|North|South|West

Maturity: photoperiod sensitive

Characteristics	
Stress Tolerance	2
Disease Tolerance	2
Forage Quality	N/A
Dry Hay	1
Silage	3
Grazing	1

- Brachytic dwarf BMR-6 gene for excellent efficiency, SCA tolerant, Photoperiod Sensitive, Male Sterile
- 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
- Male Sterile trait also aids in capturing sugars in the plant as it will not produce viable seed as it does try to head at end of the season
- 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 PM 4507 PM

Regions: Central|East|North|South|West

Maturity: Heads at ~50 days

Characteristics	
Stress Tolerance	2
Disease Tolerance	2
Forage Quality	1
Dry Hay	1
Silage	3
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)

CROPLAN PM 4611 BMR

Regions: Central|East|North|South|West

Maturity: Heads at ~50 days

Characteristics	
Stress Tolerance	1
Disease Tolerance	2
Forage Quality	1
Dry Hay	1
Silage	3
Grazing	1

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

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CROPLAN PM 4612 BMR

Regions: Central|East|North|South|West

Maturity: Heads at ~50 days

Characteristics

Stress Tolerance	1
Disease Tolerance	2
Forage Quality	1
Dry Hay	1
Silage	3
Grazing	1

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

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 my change as additional data is gathered.

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

FORAGE SORGHUM

	BRAND	Maturity	Seeding Rate per Acre	Seeding Depth	Average Seeds Per Pound (x1000)	Soil Temp at planting	BMR	Herbicide Tolerance	Drought Stress	Heat Stress	Stress Tolerance	Disease Tolerance	Sugarcane Aphid Tolerance	Cold Tolerance	Wet Soils	Dry Hay	Baleage	Silage	Grazing
	Forage Sorghum Hybrid																		
	BMR 3211	Early	60-70K seeds	1-1 1/2"	15.5	60	Y	N	2	3	3	2	-	3	2	4	3	1	4
NEW	BMR 3212	Early	60-70K seeds	1-1 1/2"	15.5	60	Y	N	2	3	3	2	-	3	2	4	3	1	4
NEW	3661 DT	Mid	60-80K seeds	1-1 1/2"	15	60	N	Y	2	2	2	2	-	3	2	4	3	1	4
	IQ 3501	Mid	50-60K seeds	1-1 1/2"	15	60	N	N	1	2	2	1	-	3	2	5	3	1	5
	3506	Mid	50-60K seeds	1-1 1/2"	15	60	N	N	2	2	2	1	-	3	2	5	3	1	5
	3541 BMR Leafy AT	Mid	60-100K seeds	1-1 1/2"	15	60	Y	N	1	2	2	1	2	3	2	5	3	1	5
	3681 AT	Mid/Late	60-70K seeds	1-1 1/2"	15	60	N	N	1	2	2	1	2	3	2	5	3	1	5
	3851 IG	Late	60-100K seeds	1-1 1/2"	15	60	N	N	1	2	2	1	-	3	2	5	3	1	5
	3731 BMR Leafy	Late	60-100K seeds	1-1 1/2"	15	60	Y	N	1	2	2	1	-	3	2	5	3	1	5
	Sorghum X Sudangrass Hybrid																		
	Greentreat® 1531	Heads at ~50 days	20-25 lbs	1"	14	60	Y	N	1	1	1	2	-	3	3	1	1	3	1
	Honey Sweet AT	Heads at ~50 days	20-25 lbs	1"	15	60	N	N	2	2	2	2	1	3	3	2	1	2	1
	GUARDIAN AT	Heads at ~60 days	20-25 lbs	1"	16.5	60	Y	N	3	3	3	3	1	3	3	1	1	3	1
NEW	Greentreat® EVRGRO	photoperiod sensitive	20-25 lbs	1"	15	60	Y	N	2	2	2	2	1	3	3	1	1	3	1
NEW	Greentreat® ADVANCE	Heads at ~75 days	20-25 lbs	1"	15	60	Y	N	3	3	3	3	-	3	3	1	1	3	1
	Pearl Millet																		
	PM 4611 BMR	Heads at ~50 days	10-15 lbs	3/4"	60	65	Y	N	2	1	1	2	1	4	3	1	2	3	1
	PM 4612 BMR	Heads at ~50 days	10-15 lbs	3/4"	60	65	Y	N	2	1	1	2	1	4	3	1	2	3	1
	PM 4507 PM	Heads at ~50 days	10-15 lbs	3/4"	60	65	N	N	2	2	2	2	1	4	3	1	1	3	1

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

CROPLAN®

FORAGE SORGHUM

Product Name

Attributes

Placement

Product Name

Attributes

Placement

Product Name

Attributes

Placement

GRAIN SORGHUM

WE'RE BIG ON GENETICS THAT ARE BIG ON HIGH PERFORMANCE & YIELDS.

SELECT THE HYBRID WITH THE TRAIT YOU NEED

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

SUGARCANE APHID TOLERANCE (SCA)

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

POST EMERGENT APPLICATION

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

NEW

CROPLAN CP5730DT

DT™ TRAIT

Adaptation: SD, NE, KS, CO, OK, TX

Maturity To Mid-Bloom: 57

Characteristics	
Yield To Maturity	1
Head Exertion	2
Seedling Vigor	1
Test Weight	2
Stalk Strength	3
Root Strength	1

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

CROPLAN CP6145DT

DT™ TRAIT

Adaptation: SD, NE, KS, CO, OK, TX

Maturity To Mid-Bloom: 61

Characteristics	
Yield To Maturity	1
Head Exertion	2
Seedling Vigor	1
Test Weight	2
Stalk Strength	2
Root Strength	1

- Double Team™ hybrids provide excellent control of crabgrass, volunteer corn, sandbur, barnyard grass and more
- Excellent yield potential at maturity
- Great emergence and standability
- Be cautious with growth regulator herbicide

CROPLAN CP6409DT

DT™ TRAIT

Adaptation: SD, NE, KS, CO, OK, TX

Maturity To Mid-Bloom: 64

Characteristics	
Yield To Maturity	2
Head Exertion	1
Seedling Vigor	1
Test Weight	2
Stalk Strength	2
Root Strength	2

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

CROPLAN CP6367ig

igrowth

Adaptation: SD, NE, KS, CO, OK, TX

Maturity To Mid-Bloom: 63

Characteristics	
Yield To Maturity	1
Head Exertion	1
Seedling Vigor	1
Test Weight	1
Stalk Strength	2
Root Strength	2

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

KEY

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Downy Mildew:
A = Sugarcane Aphid tolerance
ig = igrowth
S = Susceptible
T = Tolerant

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

CROPLAN CP6617ig

igrowth

Adaptation: SD, NE, KS, CO, OK, TX, Midwest, East

Maturity To Mid-Bloom: 66

Characteristics	
Yield To Maturity	1
Head Exertion	1
Seedling Vigor	2
Test Weight	1
Stalk Strength	1
Root Strength	2

- iGrowth® herbicide tolerant hybrid to aid in weed control
- Tremendous looking variety that can perform well across multiple geographies
- Place along I-35 corridor and east with better soils and moisture for top-end yield potential
- Can move east across KS, OK, north TX and into eastern states
- Works best as an inclusion in a pre-herbicide program; option to use as post-application if not utilized as a pre-emerge

NEW

CROPLAN CP5302 E

Maturity To Mid-Bloom: 53

Characteristics	
Yield To Maturity	1
Head Exertion	2
Seedling Vigor	1
Test Weight	2
Stalk Strength	2
Root Strength	1

- Early option for those focused on maximizing a short growing season; daylength or lack of late moisture; get done quick
- Tough, tough, tough and early stable grain producer
- Great use for double crop and early, short growing season environments

CROPLAN CP5811A

Adaptation: SD, NE, KS, CO, OK, TX

Maturity To Mid-Bloom: 58

Characteristics	
Yield To Maturity	2
Head Exertion	2
Seedling Vigor	1
Test Weight	2
Stalk Strength	1
Root Strength	1

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

CROPLAN CP5921A

Adaptation: SD, NE, KS, CO, OK, TX

Maturity To Mid-Bloom: 59

Characteristics	
Yield To Maturity	1
Head Exertion	1
Seedling Vigor	2
Test Weight	1
Stalk Strength	2
Root Strength	2

- Great dryland product where conditions are very tough
- Can handle variable soils where high pH can cause issues
- Works well in narrower rows
- Very stable product across tough acres or low yield environments where consistency is very important
- Tough, consistent product in SD, western NE, western KS, eastern CO, where achieving top yield potential is challenging

KEY

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Downy Mildew:
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T = Tolerant

Hybrid Number System
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Third & Fourth Numbers = Sequential Trait Lettering

CROPLAN CP6011

Adaptation: SD, NE, KS, CO, OK, TX

Maturity To Mid-Bloom: 60

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

CROPLAN CP6021A

Adaptation: SD, NE, KS, CO, OK, TX

Maturity To Mid-Bloom: 60

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

CROPLAN CP6211A

Adaptation: SD, NE, KS, CO, OK, TX, Midwest, East

Maturity To Mid-Bloom: 62

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

NEW

CROPLAN CP6311A

Maturity To Mid-Bloom: 62

- Excellent root and stalk strength for standability
- Very consistent and stable performance potential across geographies
- Adaptation north to south, from SD through TX all the way to MX
- Will move east well due to disease tolerance; not suited for short season stress areas of eastern CO, northwest KS and higher elevations
- Improvement to gradually take on the 6211A acres

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Hybrid Number System
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Third & Fourth Numbers = Sequential Trait Lettering

CROPLAN CP6811

Adaptation: SD, NE, KS, CO, OK, TX

Maturity To Mid-Bloom: 68

Characteristics

Yield To Maturity	2
Head Exertion	3
Seedling Vigor	2
Test Weight	2
Stalk Strength	2
Root Strength	1

- Medium-tall hybrid with very good uniformity in the field
- Above average drought tolerance
- Good on saline type soils
- Excellent full season dryland product for OK, TX, central/eastern KS and south-central NE
- Manage appropriately in areas prone to anthracnose

CROPLAN CP7011A

Adaptation: SD, NE, KS, CO, OK, TX, Midwest, East

Maturity To Mid-Bloom: 70

Characteristics

Yield To Maturity	1
Head Exertion	1
Seedling Vigor	1
Test Weight	2
Stalk Strength	2
Root Strength	2

- Great product for moving south and east where we get into higher yield environments, better soil conditions and irrigated acres
- Great semi-open head hybrid with excellent test weight and beautiful red grain
- Very high yield potential product with consistent performance
- Strong sugarcane aphid (SCA) tolerance helps protect yield potential in SCA prone areas

KEY

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Downy Mildew:
A = Sugarcane Aphid tolerance
ig = igrowth
S = Susceptible
T = Tolerant

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

GRAIN SORGHUM

	BRAND	Maturity to Mid-Bloom	Seeding Depth	Average Seeds/lb (x1000)	Soil Temp at Planting	SCA Tolerant	Midwest/East Adaptation	Herbicide Tolerance	Plant Height	Yield to Maturity	High End Yield Response	Low End Yield Response	Head Exertion	Seedling Vigor	Test Weight	Stalk Strength	Root Strength	Threshability	Fusarium Head Blight	Head Smut	Anthracnose	Downy Mildew 1
	DT™																					
NEW	CP5730DT	57	1-1 1/2"	12	60	N	Y	Y	Med	1	2	2	2	1	2	3	1	3	NA	NA	NA	NA
	CP6145DT	61	1-1 1/2"	14	60	N	NA	Y	Med	1	2	1	2	1	2	2	1	1	2	NA	3	S
	CP6409DT	64	1-1 1/2"	14	60	N	Y	Y	Med	2	2	2	1	1	2	2	2	3	NA	NA	NA	NA
	igrowth®																					
	CP6367ig	63	1-1 1/2"	14	60	N	NA	Y	46-50"	1	1	2	1	1	1	2	2	1	NA	NA	NA	NA
	CP6617ig	66	1-1 1/2"	14	60	N	Y	Y	36-43"	1	1	2	1	2	1	1	2	1	NA	NA	NA	NA
	Conventional																					
NEW	CP5302 E	53	1-1 1/2"	12	60	Y	Y	N	Med	1	3	1	2	1	2	2	1	3	NA	NA	NA	NA
	CP5811A	58	1-1 1/2"	17	60	Y	NA	N	47-50"	2	2	1	2	1	2	1	1	2	NA	3	NA	S
	CP5921A	59	1-1 1/2"	15	60	Y	NA	N	31-35"	1	1	1	1	2	1	2	2	1	2	NA	2	S
	CP6011	60	1-1 1/2"	14	60	N	NA	N	38-42"	1	1	1	3	3	2	1	1	2	4	3	4	T
	CP6021A	60	1-1 1/2"	14	60	Y	NA	N	31-35"	1	2	1	2	2	2	2	2	1	2	NA	2	S
	CP6211A	62	1-1 1/2"	15	60	Y	Y	N	50-53"	2	2	2	3	1	1	2	1	2	2	2	NA	S
NEW	CP6311A	62	1-1 1/2"	15	60	Y	Y	N	47-52"	1	2	2	2	1	1	2	1	2	2	2	NA	S
	CP6811	68	1-1 1/2"	14	60	N	NA	N	50-55"	2	1	2	3	2	2	2	1	2	4	3	3	S
	CP7011A	70	1-1 1/2"	15	60	Y	Y	N	53-57"	1	1	2	1	1	2	2	2	1	2	2	NA	S

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1 Downy Mildew:
S = Susceptible
T = Tolerant

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

CROPLAN®

GRAIN SORGHUM

Product Name

Attributes

Placement

Product Name

Attributes

Placement

Product Name

Attributes

Placement

SPRING CANOLA

THE RIGHT GENETICS & THE RIGHT TRAITS FOR THE RIGHT YIELD POTENTIAL.

THE RIGHT GENETICS AND TRAITS FOR YOUR ACRES

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

LIBERTY LINK®

TruFlex™ CANOLA

LUMIDERM® INSECTICIDE SEED TREATMENT

An industry leading technology responsible for:

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

SC

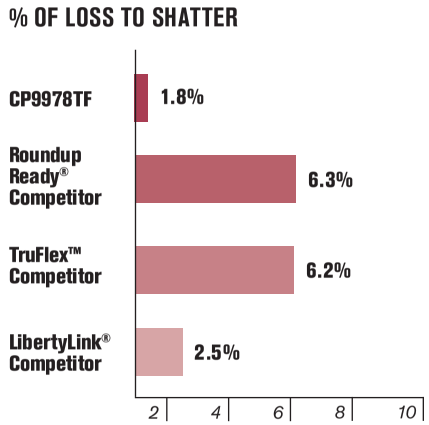
SC designates these products have met the minimum requirements for standability and reduced shatter to be considered a straight-cut hybrid.

SC+

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

CROPLAN SEED DELIVERS EXCELLENT SHATTER SCORE[1]

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

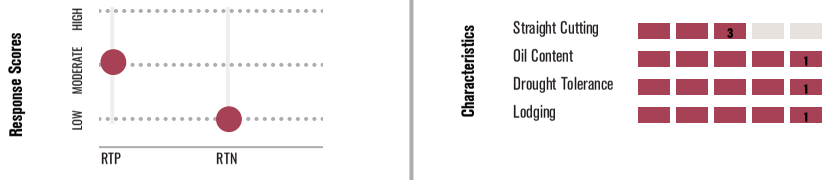


Variety Trial.
Northern Resources, Roseau, Minn.
1. Results not statistically significant and may vary. Because of factors outside of WinField United's control, such as weather, product application and any other factors, results to be obtained, including but not limited to yields, financial performance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

CROPLAN CP930RR

Spring Canola

Roundup Ready Canola | SC

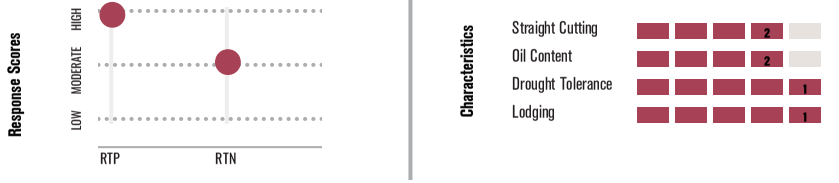


- Industry-leading oil content
- Excellent yield potential for early maturity; strong stress tolerance
- Good for straight-cutting; good shatter scores
- Strong vigor; for less-than-ideal seedbeds and no-till

CROPLAN CP9221TF

Spring Canola

TruFlex Canola | SC



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

CROPLAN CP9978TF

Spring Canola

TruFlex Canola | SC+

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

CROPLAN CP7130LL

Spring Canola

LIBERTY LINK

- High yield potential hybrid in cooler and moderate- to higher-yielding environments
- Great early season vigor
- Low RTN score increases stability across acres; helps in lower nitrogen soils or under lower nitrogen management systems
- Brings sclerotinia, clubroot and blackleg resistance

KEY

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1 = Excellent
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5 = Not Recommended

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

SC = Straight-Cutting

SC+ = Straight-Cutting Plus

NEW

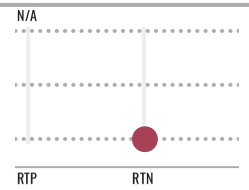
CROPLAN **CP7250LL**

Spring Canola

10% Moly Liquid by WinField

SC

Response Scores



Characteristics

Straight Cutting	2
Oil Content	N/A
Drought Tolerance	3
Lodging	N/A

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

KEY

SCALE:
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SC = Straight-Cutting

SC+ = Straight-Cutting Plus

SPRING CANOLA

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

KEY

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

1 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
- **B**
- **C**
- **D**
- **E1**
- **E2**
- **F**
- **G**
- **H**
- **X**
- **Multi**

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

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

Product Name

Attributes

Placement

Product Name

Attributes

Placement

Product Name

Attributes

Placement

WINTER CANOLA

HIGH PERFORMING PRODUCTS BRINGING OUT THE BEST IN YOUR FIELDS.

USE CUTTING-EDGE WEED CONTROL

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

ROUNDUP READY® WINTER CANOLA

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

ROUNDUP READY® WINTER CANOLA WITH SURT

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

Roundup Ready CANOLA

SURT

CANOLA ROTATION RESTRICTIONS? WE HAVE YOU COVERED.

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

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

G2FLEX™

PLANTING FOR WINTERHARDINESS

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

CROPLAN CP115WRR

Winter Canola

Roundup Ready Canola | SURT

Characteristics	
Lodging	2
Oil Content	2
Drought Tolerance	1
Winter Hardiness	2

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

NEW

CROPLAN CP225WRR

Winter Canola

Roundup Ready Canola | SURT

Characteristics	
Lodging	2
Oil Content	1
Drought Tolerance	2
Winter Hardiness	2

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

CROPLAN CP320WRR

Winter Canola

Roundup Ready Canola

Characteristics	
Lodging	2
Oil Content	1
Drought Tolerance	2
Winter Hardiness	1

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

CROPLAN CP1022WC

Winter Canola

G2FLEX™

Characteristics	
Lodging	2
Oil Content	1
Drought Tolerance	1
Winter Hardiness	1

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

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 my change as additional data is gathered.

CROPLAN CP1066WC

Winter Canola

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

CROPLAN CP1077WC

Winter Canola

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

KEY

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3 = Acceptable
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5 = Not Recommended

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WINTER CANOLA

BRAND	Herbicide Tolerance Trait	Type	Common Seed Size Range	Maturity	Height [1]	Oil Content	Fall Vigor	Winterhardiness	Lodging	Drought Tolerance
Roundup Ready® + SURT Winter Canola										
CP115WRR	Roundup Ready + SURT	Open Pollinated	100,000-130,000	Medium	M-S	2	2	2	2	1
CP225WRR	Roundup Ready + SURT	Open Pollinated	100,000-130,000	Medium	M	1	2	2	2	2
Roundup Ready® Winter Canola										
CP320WRR	Roundup Ready	Open Pollinated	100,000-130,000	Medium	M	1	1	1	2	2
Conventional + G2Flex™ Winter Canola										
CP1022WC	G2Flex	Open Pollinated	100,000-130,000	Med/Late	T	1	1	2	2	2
Conventional Winter Canola										
CP1077WC	Conventional Winter Canola	Hybrid	100,000-130,000	Medium	T	1	1	2	2	2
CP1066WC	Conventional Winter Canola	Open Pollinated	100,000-130,000	Medium	M	1	1	1	1	2

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

WINTER CANOLA

Product Name

Attributes

Placement

Product Name

Attributes

Placement

Product Name

Attributes

Placement

SUNFLOWER

OUR TESTING NEVER STOPS, AND YOUR YIELDS NEVER SHOULD EITHER.

FORTENZA® INSECTICIDE SEED TREATMENT

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

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

PROSUN® PRECISE SEED COATING

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

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

TRAIT OPTIONS FOR THE WEED CONTROL YOU NEED

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

BEYOND® AND EXPRESS® HERBICIDES

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

BRING THE POWER OF PROOF TO YOUR FARM

At our Answer Plot Innovation Farm, we're able to test more products than ever. In fact, we're increasing our ability to test each hybrid's response to nitrogen, fungicide and population to better our understanding of management for every product in our brand. By taking it down to a more granular level with foliar micronutrients, in-furrow biologicals, insecticides and fungicides, it allows us to evaluate new novel seed treatments to help make the stand get up faster and stronger.

Check out the Answer Plot® results below. They're proof that bringing high-end genetics with the latest traits and an unbiased focus on product development can deliver big yield potential.

REGIONAL BREAKOUT	CROPLAN EXPRESSSUN® PRODUCTS								
	CP4157E	CP4255E	CP432E	CP4475E	CP4490E	CP450E	CP455E	CP4909E	PLOT MN
Rothsay, MN	3,814	4,007	3,676	2,813	3,688	3,626	4,098	3,699	3,645
Mott, ND	2,808	3,444	2,760	3,172	2,537	3,087	3,182	2,478	2,758
Washburn, ND	2,076	2,637	2,713	1,889	2,032	1,981	2,609	1,582	2,205
Wishek, ND	2,571	2,865	2,966	2,636	3,027	2,863	3,117	2,839	2,879
Onida, SD	1,935	2,872	2,456	2,925	2,773	3,062	2,911	2,724	2,771
Pierre, SD	1,159	1,439	1,117	1,125	1,249	1,548	1,231	1,398	1,304
Yield Average	2,394	2,877	2,615	2,427	2,551	2,695	2,858	2,453	2,594
Yield x Maturity Rating	7.7	10.1	23.0	10.7	6.8	5.8	7.4	13.1	9.5

REGIONAL BREAKOUT	CROPLAN CLEARFIELD® PRODUCTS					
	CP3845	CP5045CL	CP5242CL	CP5249CL	CP7919CL	Plot Mn
Rothsay, MN	3,559	3,971	3,879	3,732	4,285	3,645
Mott, ND	2,878	2,617	2,307	2,992	2,718	2,758
Washburn, ND	2,607	2,468	2,197	2,829	2,089	2,205
Wishek, ND	3,285	3,237	2,882	2,706	2,691	2,879
Onida, SD	3,213	3,300	3,218	3,365	2,558	2,771
Pierre, SD	1,325	1,636	1,393	1,310	1,314	1,304
Yield Average	2,811	2,872	2,646	2,822	2,609	2,752
Yield x Maturity Rating	12.4	10.6	9.0	18.6	6.5	11

Summarized 2023 Answer Plot® Data from: Mott, Washburn and Wishek ND; Onida & Pierre SD; Rothsay MN

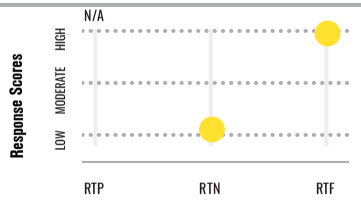
CROPLAN®

CROPLAN CP432E

ExpressSun® Sunflower

DuPont ExpressSun trait

NuSun



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

CROPLAN CP4909E

ExpressSun® Sunflower

ExpressSun trait

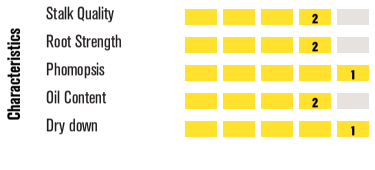
NuSun

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

CROPLAN CP4475E

ExpressSun® Sunflower

ExpressSun trait



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

CROPLAN CP4255E

ExpressSun® Sunflower

ExpressSun trait

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

KEY

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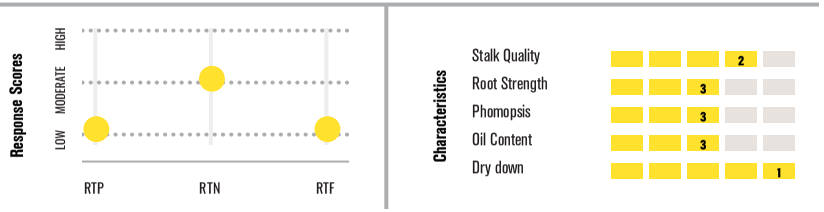
CROPLAN CP455E

ExpressSun® Sunflower

ExpressSun® trait

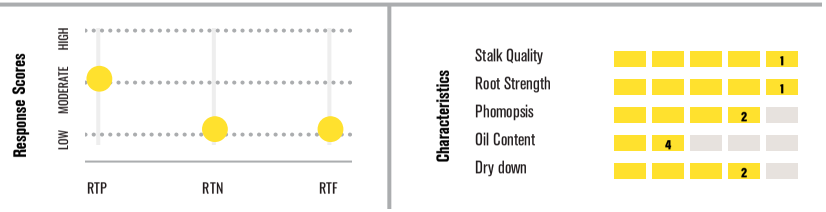


- Excellent yield potential; top performer in CROPLAN® lineup
- Widely adapted across regions and field conditions
- Medium-short plant with excellent drydown
- Good drought response along with sclerotinia tolerance for higher-moisture years

CROPLAN CP450E

ExpressSun® Sunflower

ExpressSun® trait

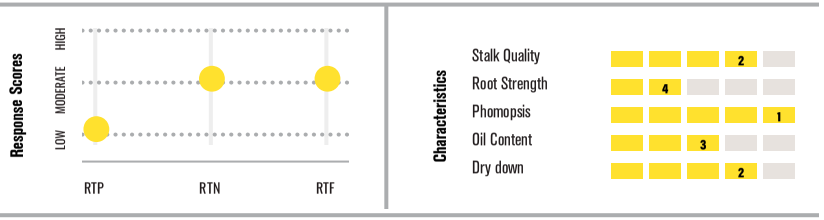


- Excellent yield potential; great defensive complement to CP455E
- Top performer in stressed environments
- Stronger standability than CP455E; good hybrid to plant early
- Good drought stress tolerance and low demand for additional nitrogen to maintain yield potential

CROPLAN CP4157E

ExpressSun® Sunflower

ExpressSun® trait



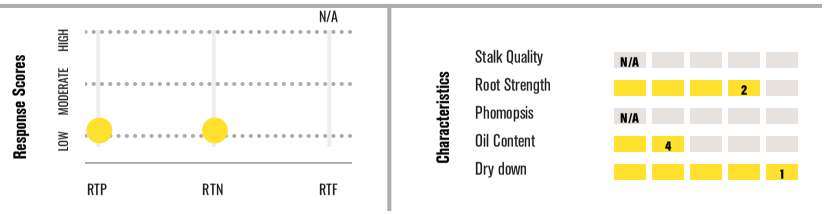
- High yield potential product with great offensive ability; excellent stress tolerance
- Taller plant; good standability.
- Low response to nitrogen; consistent yield potential across environments
- Keep populations average or even reduce; positive impact on standability without yield loss.

NEW

CROPLAN CP4490E

ExpressSun® Sunflower

DuPont™ ExpressSun® trait



- High yielding product with great offensive ability combined with excellent stress tolerance!
- Taller plant but good standability
- Low response to nitrogen brings the ability have consistent yield potential across environments
- Has shown to have good Phomopsis tolerance

KEY

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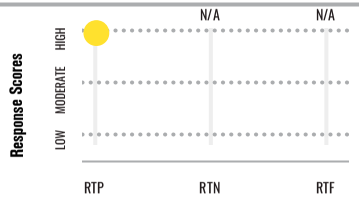
CROPLAN CP5220CLSS

Clearfield® Sunflower



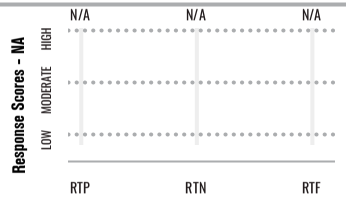
Characteristics	
Stalk Quality	1
Root Strength	1
Phomopsis	1
Oil Content	4
Dry down	1

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

NEW

CROPLAN CP5242CL

Clearfield® Sunflower



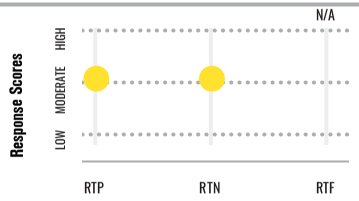
Characteristics	
Stalk Quality	2
Root Strength	2
Phomopsis	N/A
Oil Content	1
Dry down	1

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

NEW

CROPLAN CP5249CL

Clearfield® Sunflower



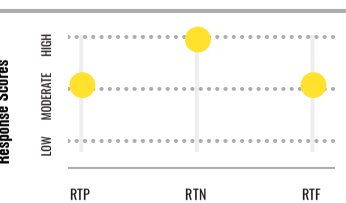
Characteristics	
Stalk Quality	2
Root Strength	1
Phomopsis	N/A
Oil Content	1
Dry down	1

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

CROPLAN CP5045CL

Clearfield® Sunflower

NuSun



Characteristics	
Stalk Quality	1
Root Strength	1
Phomopsis	3
Oil Content	2
Dry down	3

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

KEY

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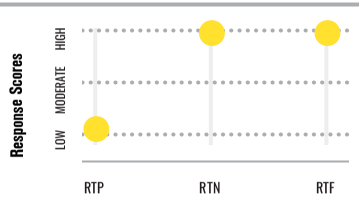
CROPLAN CP7919CL

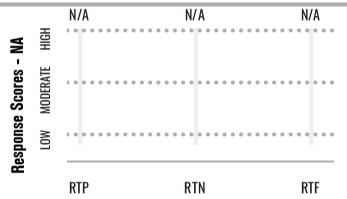
Clearfield® Sunflower



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

CROPLAN CP3845

Conventional Sunflower



- Strong yield potential in higher-yielding environments
- Taller plant; strong roots and late-season stalks; very clean plant at harvest
- One of the top oil content products in the CROPLAN® lineup
- Plant at higher populations for best results

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SUNFLOWER

	BRAND	High Oleic [1]	NuSun® [1]	Dehulling [1]	Birdseed [1]	Days to Maturity	Downy Mildew Resistance [2]	Phomopsis	Sclerotinia	Height	Root Strength	Stalk Quality	Dry down	Drought Tolerance	Oil Content	Oleic Content	Common Planting Seed Size	Response to Population (RTP) [3]	Response to Nitrogen (RTN) [3]	Response to Fungicide (RTF) [3]
	ExpressSun® Sunflower																				
	CP432E		●	●	●	87	PI 8	2	3	Short	3	2	1	2	4	NA	2, 3, 4	M	M	M
	CP450E	●		●	●	94	PI 8	2	2	Medium	1	1	2	1	4	2	2, 3, 4	M	L	L
	CP455E	●		●	●	93	PI 6	3	2	Medium	3	2	1	2	3	2	2, 3, 4	L	M	L
	CP4909E		●		●	91	NA	3	2	Short	2	2	1	3	3	NA	2, P3, 3, 4	M	H	NA
	CP4157E	●		●	●	95	PI 6	1	2	Med-Tall	4	2	2	4	3	1	3, 4	L	M	M
	CP4255E	●		TBD	●	93	PI 2,6,8	1	2	Med-Tall	2	2	2	2	2	1	2,3, 4	L	M	NA
	CP4475E	●		TBD	●	92	PI 6,8	1	2	Tall	2	2	1	2	2	1	2,3, 4	L	M	NA
NEW	CP4490E	●		TBD	●	96	M9	NA	1	Tall	2	2	1	1	4	1	3,4	L	L	NA
	Clearfield® Sunflower																				
	CP5220CLSS	●		TBD	●	79	PI 6	1	N/A	Super Short	1	1	1	1	4	3	3, 4	H	NA	NA
	CP5045CL		●	TBD	●	95	PI 6,17	3	3	Med-Short	1	1	3	1	2	NA	2, 3, 4	M	H	M
	CP545CL		●		●	94	PI 6	3	2	Short	1	1	3	2	2	NA	2, P3, 3, 4	NA	NA	NA
	CP549CL		●		●	95	PI 15	1	1	Med-Tall	NA	3	2	1	2	3	P3, 3, 4	NA	NA	NA
	CP568CL	●				99	PI 6	1	5	Med-Tall	NA	2	3	1	1	2	3,4	NA	NA	NA
	CP7919CL	●			●	97	PI 6	1	4	Medium	2	2	3	2	2	2	2, 3, 4	L	H	H
NEW	CP5249CL	●		TBD	●	86	PI 15	NA	3	Short	1	2	1	1	1	1	NA	M	M	NA
NEW	CP5242CL	●		TBD	●	86	PL 15	NA	2	Short	2	2	1	2	1	1	NA	NA	NA	NA
NEW	CP5238CL	●		TBD	●	89	PL 6	NA	3	Med	2	2	1	1	1	1	NA	NA	NA	NA
	Conventional Sunflower																				
	CP3845	●		●	●	92	NA	4	5	Med-Short	3	2	2	2	1	1	3, 4	NA	NA	NA

KEY

Scale
- **1** = Excellent
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- **5** = Not Recommended

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1 Market Options

Grain not guaranteed to be sold in your area.

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

TBD = still in testing.

2 Downy Mildew Resistance

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

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

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

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

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

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

M9 gene = Broad spectrum resistance to races: 100, 304, 307, 314, 334, 703, 704, 710 and 714.

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

CROPLAN®

SUNFLOWER

Product Name

Attributes

Placement

Product Name

Attributes

Placement

Product Name

Attributes

Placement

HARD RED SPRING WHEAT

THIS IS NEXT-LEVEL R&D, HELPING YOU OPTIMIZE PROFIT POTENTIAL.

Optimize Seed ROI

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

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

ANSWER PLOT® RESEARCH PROVIDES RESPONSE DATA FOR CROPLAN WHEAT VARIETIES.

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

- There's a 25.5 bu/A average yield response advantage[1] when varieties are managed according to their Response to Nitrogen (RTN).
- Then, there's a 10.9 bu/A average yield response advantage[1] when varieties are managed according to their Response to Population (RTP).
- We are currently evaluating the new Response to Sulfur yield response and initial data is promising. Stay tuned; year two of research should give us the confidence needed to create ratings and management recommendations.

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

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

Our Answer Plot Innovation Farm allows us to test more products and management techniques than ever, including evaluating foliar micronutrients, in-furrow biologicals, insecticides, fungicides and new novel seed treatments to make your stand get up faster and stronger. And on top of all that, you can also get sawfly protection with our new semi-solid stemmed products that show excellent tolerance to sawfly pressure.

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

REVOLUTIONARY GRASSY WEED CONTROL

CROPLAN seed is pleased to offer the CoAXium Wheat Production System as a part of our wheat lineup. Created in part by wheat farmers for wheat farmers, this system provides cost-effective, excellent control of annual and perennial grasses, higher quality grain, and increased yield potential.

Additionally, it combines elite wheat varieties, the AXigen® trait and Aggressor® herbicide with an industry-wide stewardship program. AXigen® is an ACCase herbicide-tolerant trait that protects wheat varieties from Aggressor® herbicide, which delivers effective, consistent, broad-spectrum control of problem grasses.

When used in conjunction with CoAXium® varieties, Aggressor® herbicide provides systemic and selective broad-spectrum control of these problem grasses:

- Barnyard grass
- Bromus species, including ALS-resistant biotypes
- Feral and cereal rye
- Jointed goat grass, including ALS-resistant biotypes
- Wild oats (non-resistant Group1)
- Volunteer cereals

1. 2019 Answer Plot® trial data.

CROPLAN®

BRING THE POWER OF PROOF TO YOUR FARM.

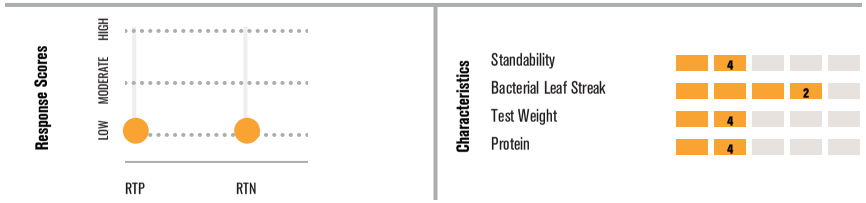
Check out the Answer Plot® results below. They're proof that bringing high-end genetics with the latest traits and an unbiased focus on product development can deliver big yield potential.

REGIONAL BREAKOUT	CROPLAN Hard Red Spring Wheat Products									
	CP3055	CP3099A	CP3119A	CP3188	CP3201AX	CP3322	CP3360AX	CP3530	CP3915	Plot Mn
Ada, MN	94.2	97.5	84.6	87.0	88.8	87.5	88.7	82.2	79.9	88.1
Glasgow, MT	22.6	24.3	22.5	18.0	19.8	19.7	22.3	16.8	21.9	18.9
Hamberg, ND	69.3	74.6	76.7	80.2	70.0	66.3	55.4	66.0	62.2	66.5
Mohall, ND	50.0	66.8	58.4	47.7	58.6	51.5	54.1	42.9	57.7	54.0
New Salem, ND	106.0	97.1	102.6	92.5	99.8	91.9	93.7	87.6	88.2	96.2
Rocklake, ND	54.7	62.1	55.5	54.7	57.6	49.0	49.9	66.0	43.8	54.1
Washburn, ND	126.9	117.9	117.3	113.0	113.7	107.4	100.0	109.8	97.6	109.6
Overall Bu/A Avg (MN/ND)	76.4	79.8	76.2	74.2	75.6	69.5	68.1	70.4	66.3	73.1
Protein	13.6	11.3	13.4	12.9	14.7	14.0	13.6	14.7	14.2	13.8
# Protein/Acre	1,039	902	1,021	957	1,111	973	926	1,035	941	1008

Locations inlcuded: Glasgow, MT Hamberg, Mohall, Rocklake ND; Ada, MN, New Salem, Washburn, ND; Hamberg, Rocklake, ND; Ada, MN; Mohall, New Salem, Washburn, ND

CROPLAN CP3055

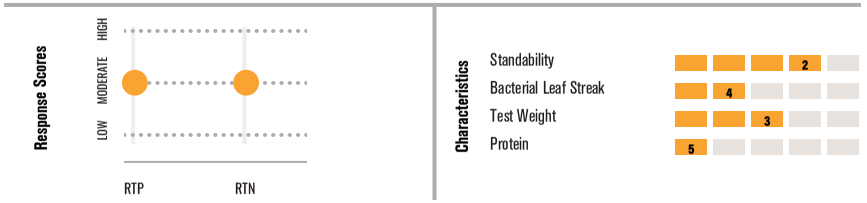
Hard Red Spring



- High yield potential European-style genetics with a solid disease package
- Semi-solid stem variety for saw-fly tolerance; good stress tolerance for a great western fit
- Very large plant type and full-season maturity allows for very high yield potential
- Moderate yield response to nitrogen; as a full season product there is opportunity for split-applied nitrogen; additional nitrogen increases protein %

CROPLAN CP3099A

Hard Red Spring



- Extremely high yield potential with unique genetics in the industry
- Large biomass and an awnless head provide excellent forage potential; good tonnage and very good quality
- Lower protein; additional nitrogen and sulfur may increase both yield and protein potential
- Research showed increases in yield with higher populations; good standability in most environments

CROPLAN CP3119A

Hard Red Spring

- High-yielding European style genetics brings an awnless product with incredible biomass
- Semi-solid stem for WSS tolerance; stress tolerance and lower response to inputs; great Western-style wheat
- High yield potential; lower-protein can be improved with N management
- Extended-season wheat with longer grain-fill gives higher yield potential

CROPLAN CP3188

Hard Red Spring

- Excellent performance under stressed conditions; top-end yield potential on the most productive acres
- Low RTN and lower RTP gives a steady performance across acres; responds to additional nitrogen for more yield and protein potential
- Lower, acceptable protein; total protein/Ac being higher than average
- Above average FHB tolerance; fungicide recommended; manage for BLS

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 my change as additional data is gathered.

NEW

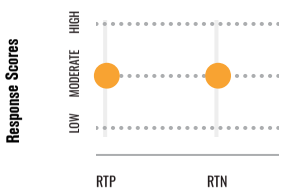
CROPLAN CP3322

Hard Red Spring

- Broadly adapted top-end yield potential product; excellent drought stress; average protein content and semi-solid stem for saw-fly tolerance
- Taller plant holds height; creates a thicker canopy for strong Western performance; good straw strength for the East
- Performs well in lower-yielding environments without sacrificing top-end yield potential
- Medium-late flowering/maturity; average BLS; use fungicide for FHB control

CROPLAN CP3530

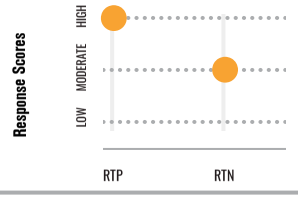
Hard Red Spring



- Excellent yield potential and strong protein
- Very stable product across environments
- Good fusarium head blight with strong stem rust and BLS; good leaf rust tolerance
- Good standability with moderate populations; higher yield potential when populations are increased in environments with lower lodging risk

CROPLAN CP3915

Hard Red Spring



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

CROPLAN CP3201AX

Hard Red Spring

- Can control resistant weeds by utilizing CoAXium® technology driven by Aggressor® herbicide using an ACCase inhibitor
- Nicely balanced product for both yield and protein potential, for success across markets
- Good agronomics and yield potential, especially in moderate to higher yielding environments
- Low demand for additional populations, but responds well to higher nitrogen availability

KEY

SCALE:
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5 = Not Recommended

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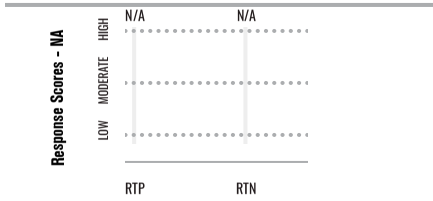
CROPLAN CP3360AX

Hard Red Spring



- Control resistant weeds by utilizing CoAXium® technology driven by Aggressor® herbicide using an ACCase inhibitor
- Nicely balanced product for yield and protein potential, to enable success across markets
- Good agronomics and good yield potential, especially in moderate to higher yielding environments
- Medium-late maturity with earlier flowering and longer grain fill; medium plant height

KEY

SCALE:
1 = Excellent
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5 = Not Recommended

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

HARD RED SPRING WHEAT

BRAND	Wheat Class	Days to Heading	Days to Maturity	Height [2]	Standability	Test Weight	Protein	Baking Quality	Placement on Irrigation	Fusarium Head Blight (FHB)	Leaf Rust	Stem Rust	Stripe Rust	Leaf Disease	Bacterial Leaf Streak	Wheat Stem Sawfly	Response to Population (RTP) [1]	Response to Nitrogen (RTN) [1]
Conventional Wheat																		
CP3530	Hard Red	57	87	T	4	2	1	3	4	2	4	1	3	3	2	4	M	M
CP3915	Hard Red	55	86	M	1	1	1	2	1	2	1	1	NA	3	1	4	H	M
CP3099A	Hard Red	60	92	T	2	3	5	4	2	4	4	4	NA	2	4	4	M	M
CP3119A	Hard Red	62	96	T	2	4	4	NA	2	4	4	2	NA	2	4	2	L	L
CP3188	Hard Red	57	85	T	3	3	3	NA	3	3	1	4	NA	3	4	4	L	M
CP3055	Hard Red	60	92	T	4	4	4	NA	3	3	2	2	NA	4	2	2	L	L
CP3322	Hard Red	57	90	T	2	3	3	NA	2	3	NA	NA	NA	NA	3	2	L	H
Coaxium® Wheat																		
CP3201AX	Hard Red	54	85	M	1	2	2	NA	2	3	NA	NA	3	NA	2	4	L	H
CP3360AX	Hard Red	54	84	M	1	1	3	3	2	3	NA	NA	NA	NA	3	4	NA	NA

KEY

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

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

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

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

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

CROPLAN®

HARD RED SPRING WHEAT

Product Name

Attributes

Placement

Product Name

Attributes

Placement

Product Name

Attributes

Placement

HARD RED WINTER WHEAT

WE'RE BRINGING GLOBAL WHEAT BREEDING TO YOUR BACK YARD.

Optimize Seed ROI

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

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

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

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

- There's a 33.1 bu/A average yield response advantage[1] when varieties are managed according to their Response to Nitrogen (RTN).
- Then, there's a 20.8 bu/A average yield response advantage[1] when varieties are managed according to their Response to Fungicide (RTF).

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

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

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

1. 2019 nationwide Answer Plot® data.

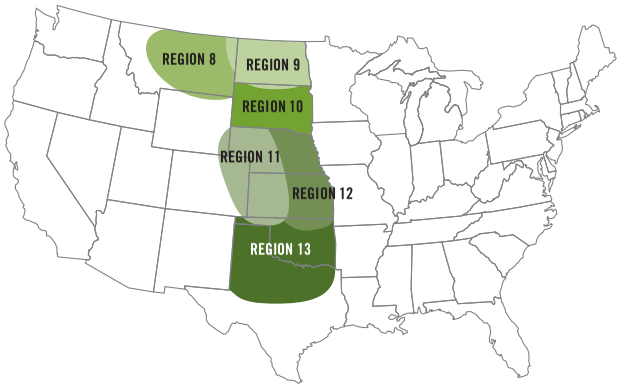
REVOLUTIONARY GRASSY WEED CONTROL

CROPLAN seed is pleased to offer the CoAXium Wheat Production System in part of our wheat lineup. Created in part by wheat farmers for wheat farmers, this system provides cost-effective, excellent control of annual and perennial grasses, higher quality grain, and increased yield potential.

Additionally, it combines elite wheat varieties, the AXigen® trait and Aggressor® herbicide with an industry-wide stewardship program. AXigen® is an ACCase herbicide-tolerant trait that protects wheat varieties from Aggressor® herbicide, which delivers effective, consistent, broad-spectrum control of problem grasses.

When used in conjunction with CoAXium® varieties, Aggressor® herbicide provides systemic and selective broad-spectrum control of these problem grasses:

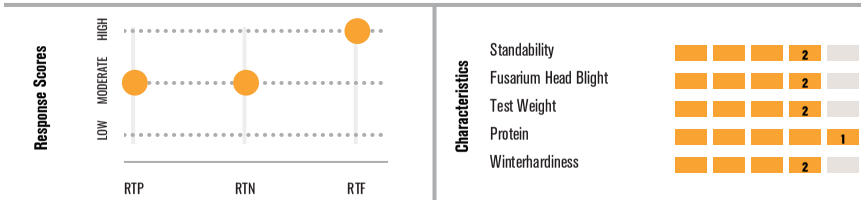
- Barnyard grass
- Bromus species, including ALS-resistant biotypes
- Feral and cereal rye
- Jointed goat grass, including ALS-resistant biotypes
- Wild oats (non-resistant Group1)
- Volunteer cereals



CROPLAN®

CROPLAN CP7050AX

Hard Red Winter

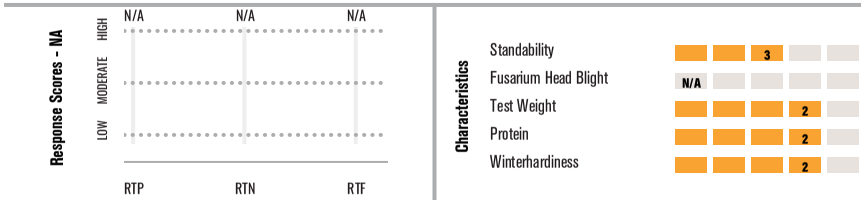


- Strong yield potential; early-maturing CoAXium® wheat variety
- Strong straw and test weight; tolerates acid soils; resistant to stripe rust and soilborne mosaic virus
- Consistent performance potential across environments and management zones, excels in tougher acres
- Fungicide recommended in areas with stem rust

NEW

CROPLAN CP7319AX

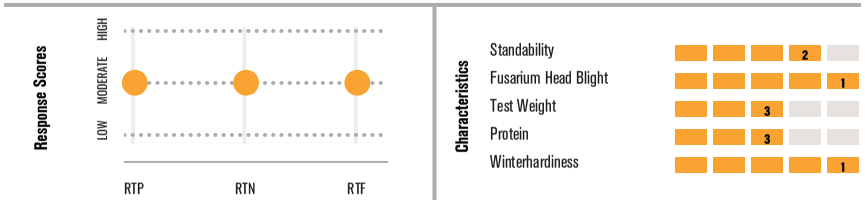
Hard Red Winter



- Excellent yield potential in an early maturity product
- Taller plant type; good fit for grazing operations
- Very tolerant to low pH soils
- High yield potential line for the Central Plains

CROPLAN CP7017AX

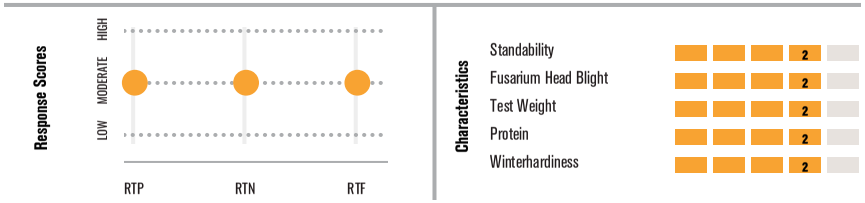
Hard Red Winter



- Medium maturity CoAXium® variety with excellent yield potential
- Resistant to soilborne mosaic virus; strong tolerance to tough soils and lower pH
- Broadly adapted for high yield potential across multiple environments
- Responds well to increased nitrogen and population on offensive acres

CROPLAN CP7266AX

Hard Red Winter



- Excellent yield potential in a medium maturity product
- Very good standability for more productive acres
- Great fit for lower-yielding environments; still has top-end yield potential
- Responds well to increased nitrogen and population on offensive acres

KEY

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

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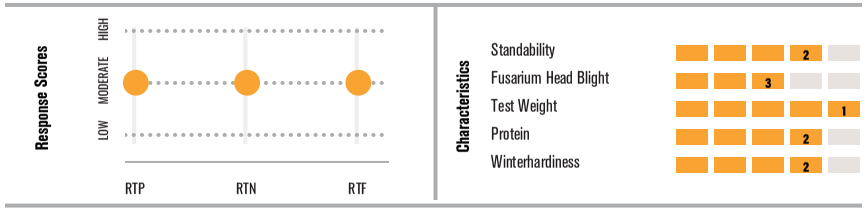
CROPLAN CP7220

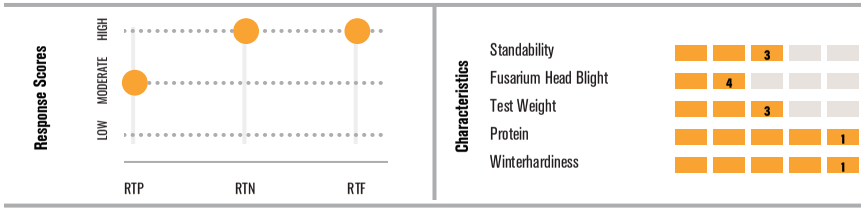
Hard Red Winter



- Broadly adapted for northern NE through Dakotas and into MT
- Very good standability and stress tolerance; placement from high to low yield potential acres
- Strong baking qualities
- Fungicide recommended in areas with leaf and stripe rust

CROPLAN CP7909

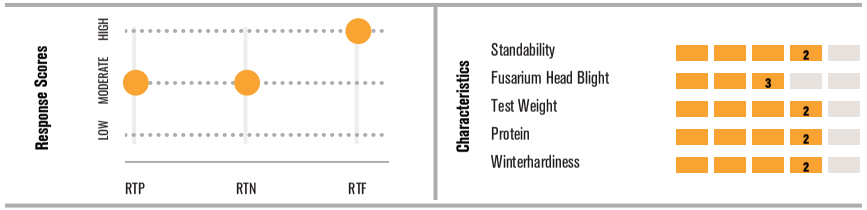
Hard Red Winter



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

CROPLAN CP7869

Hard Red Winter



- 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

KEY

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4 = Manage
5 = Not Recommended

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HARD RED WINTER WHEAT

BRAND	Wheat Class	Regions of Adaptation	Maturity (1)	Height (2)	Test Weight	Standability	AWNS	Winterhardiness	Protein	Leaf Rust	Stripe Rust	Powdery Mildew	Septoria Leaf Resistance	Leaf Disease	Stagonospora Glume Blotch	Barley Yellow Dwarf	Fusarium Head Blight (FHB)	Hessian Fly Resistance	Wheat Stem Sawfly	Placement on Irrigation	Response to Population (RTP) (3)	Response to Nitrogen (RTN) (3)	Response to Fungicide (RTF) (3)
Coaxium® Wheat																							
NEW CP7319AX	Hard Red	10, 11, 12, 13	2	T	2	3	Y	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	NA	NA	NA
CP7266AX	Hard Red	8, 9, 10, 11, 12, 13	3	MT	2	2	Y	2	2	1	2	NA	NA	1	NA	NA	2	NA	NA	1	M	M	M
CP7017AX	Hard Red	8, 9, 10, 11, 12, 13	3	M	3	2	Y	1	3	3	2	NA	NA	2	NA	NA	1	NA	NA	1	M	M	M
CP7050AX	Hard Red	8, 9, 10, 11, 12	1	M	2	2	Y	2	1	2	1	NA	NA	3	NA	NA	2	NA	NA	2	M	M	H
Conventional Wheat																							
CP7220	Hard Red	8, 9, 10, 11, 12, 13	3	M	1	2	Y	2	2	4	3	4	NA	3	NA	NA	3	NA	NA	1	M	M	M
CP7909	Hard Red	8, 9, 10, 11, 13	3	MT	3	3	Y	1	1	3	4	NA	NA	2	NA	NA	4	NA	NA	1	M	H	H
CP7869	Hard Red	8, 10, 11, 12, 13	5	M	2	2	Y	2	2	1	1	NA	NA	1	NA	NA	3	NA	NA	1	M	M	H

KEY

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

1 Maturity
1 = Early
5 = Late

2 Height
S = Short
M = Medium
T = Tall

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

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

HARD RED WINTER WHEAT

Product Name

Attributes

Placement

Product Name

Attributes

Placement

Product Name

Attributes

Placement

CROPLAN

SOFT RED WINTER WHEAT

WITH 20+ YEARS OF EXPERTISE, BEING REVOLUTIONARY COMES EASY.

Optimize Seed ROI

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

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

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

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

- There's a 7.2 bu/A average yield response advantage[1] when varieties are managed according to their Response to Nitrogen (RTN).

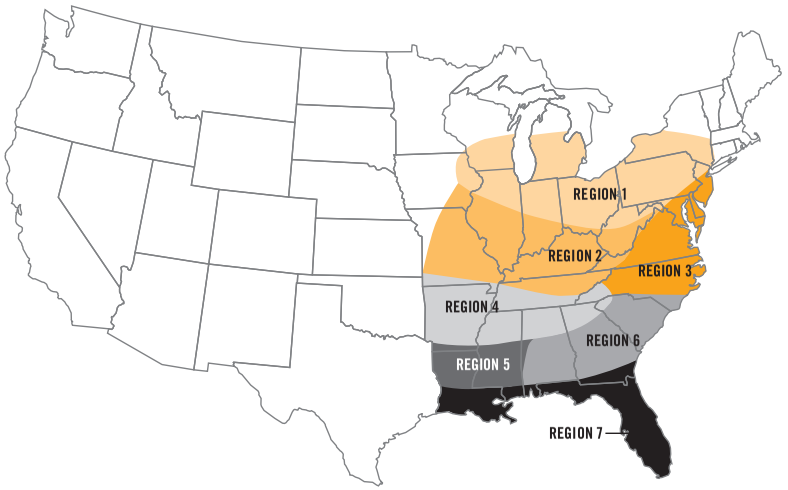
Then, there's a 10.5 bu/A average yield response advantage[1] when varieties are managed according to their Response to Fungicide (RTF).

1. 2019 Answer Plot® data.

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

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

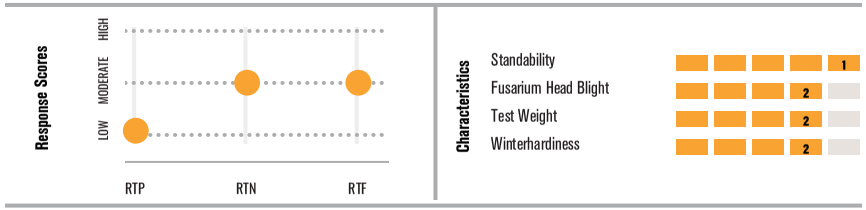
Only CROPLAN seed provides this level of intelligence. And you can only find CROPLAN seed varieties at the best retailers in America.



CROPLAN®

CROPLAN CP8081

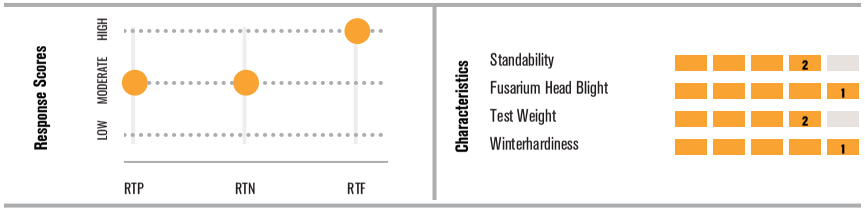
Soft Red Winter



- 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

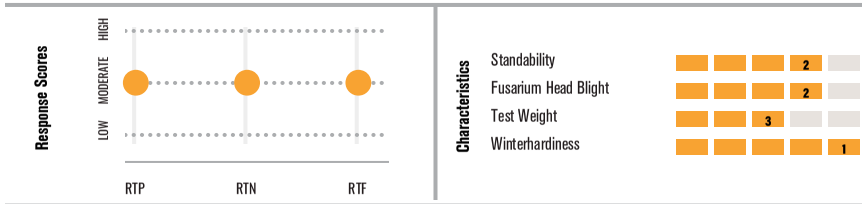
Soft Red Winter



- Excellent yield potential in highly productive environments
- State-of-the-art fusarium head blight resistance
- Excellent test weight and stripe rust resistance
- Plant on time to encourage tilling

CROPLAN CP8045

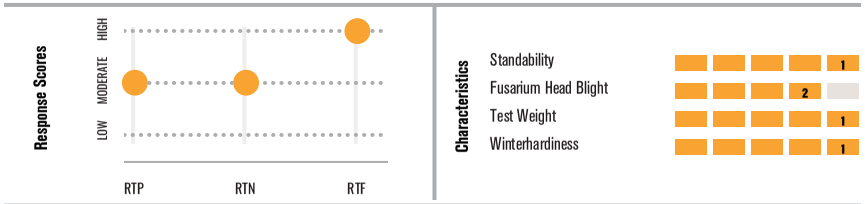
Soft Red Winter



- Outstanding yield potential; broadly adapted over a variety of soils
- Strong disease-tolerance package

CROPLAN CP8224

Soft Red Winter



- High yield potential variety to replace CP9203
- Excellent test weight and winterhardiness
- Awnless variety with excellent standability
- Acceptable Septoria and powdery mildew tolerance

KEY

SCALE:
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5 = Not Recommended

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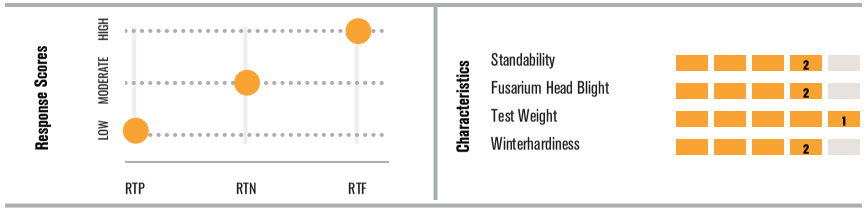
CROPLAN CP9203

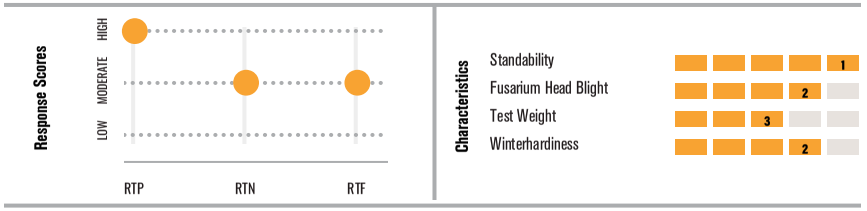
Soft Red Winter



- 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 CP9606

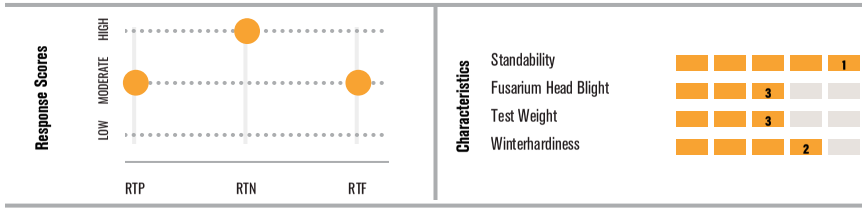
Soft Red Winter



- 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 CP8007

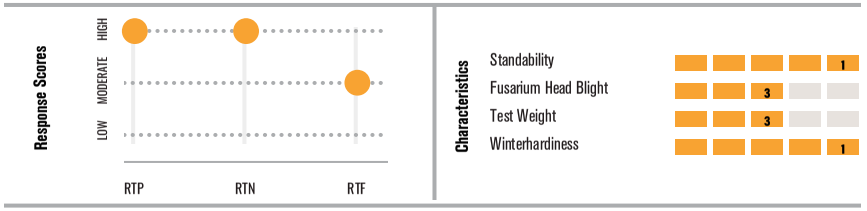
Soft Red Winter



- Outstanding yield potential
- Very stiff and short straw that can handle high N-rates
- Strong test weight
- Best performance in northern regions

CROPLAN CP9415

Soft Red Winter



- 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

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 my change as additional data is gathered.

SOFT RED WINTER WHEAT

BRAND	Wheat Class	Regions of Adaptation	Maturity (1)	Height (2)	Test Weight	Standability	AWNS	Seed Size Range (Seeds/Lb)	Winterhardiness	Response to Population (RTP)	Response to Nitrogen (RTN) (3)	Response to Fungicide (RTF) (3)	Leaf Rust	Stripe Rust	Powdery Mildew	Septoria Leaf Resistance	Leaf Disease	Stagonospora Glume Blotch	Barley Yellow Dwarf	Fusarium Head Blight (FHB)	Hessian Fly Resistance	Placement on Irrigation
CP9606	Soft Red	3, 6	3	MS	3	1	Y	11,000-14,000	2	H	M	M	2	1	3	3	NA	3	2	2	Biotype B, D, L, O	NA
CP9415	Soft Red	1, 2, 3, 4	4	MS	3	1	Y	10,000-12,000	1	H	H	M	1	2	3	2	NA	1	3	3	Biotype B, D, L, O	NA
CP9203	Soft Red	1, 2	3	MS	1	2	N	10,000-13,000	2	L	M	H	2	1	5	4	NA	2	2	2	Biotype L	NA
CP8081	Soft Red	1, 2, 3, 4	1	M	2	1	Y	11,000-14,000	2	L	M	M	1	2	4	2	NA	2	1	2	Biotype B, D, L, O	NA
CP8022	Soft Red	1, 2, 3, 4	3	MS	2	2	Y	11,000-14,000	1	M	M	H	3	1	4	2	NA	2	1	1	Native tol.	NA
CP8007	Soft Red	1, 2	4	S	3	1	N	11,000-14,000	2	M	H	M	2	2	2	4	NA	2	NA	3	NA	NA
CP8045	Soft Red	1, 2, 3, 4	3	M	3	2	Y	11,000-14,000	1	M	M	M	2	2	2	2	NA	2	NA	2	NA	NA
CP8224	Soft Red	1, 2, 3, 4	3	M	1	1	N	12,000-14,000	1	M	M	H	1	1	2	3	NA	NA	NA	2	NA	NA

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(1) Maturity
1 = Early
5 = Late

(2) Height
S = Short
M = Medium
T = Tall

(3) RTP/RTN/RTF Ratings
L = Low Response
M = Moderate Response
H = High Response

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

SOFT RED WINTER WHEAT

Product Name

Attributes

Placement

Product Name

Attributes

Placement

Product Name

Attributes

Placement

CROPLAN®

FIELD PEA

WITH TESTING THIS METICULOUS, YOU KNOW WE'RE NEXT-LEVEL.

Rigorous testing is how we got here. Matching the right genetics resulting in high yield potential? That's where we're going.

Field peas might be the newest CROPLAN crop, but they're not new to us. We've spent three years amassing varietal data in order to bring the best results to operations across the U.S.

SELECT THE RIGHT PRODUCT

A key factor in selecting the right variety for your operation is to match the right variety to the right yield environment to optimize yield potential. Each CROPLAN variety is evaluated for flowering data, maturity, disease tolerance, standability and harvestability so that you can be certain the variety you choose matches your operation's goals.

MANAGEMENT

While field peas thrive in a variety of dryer soil types, from sandy to heavy clay regions, they have a lower tolerance for water-logged conditions. So, poorly drained or saltine soils should be avoided.

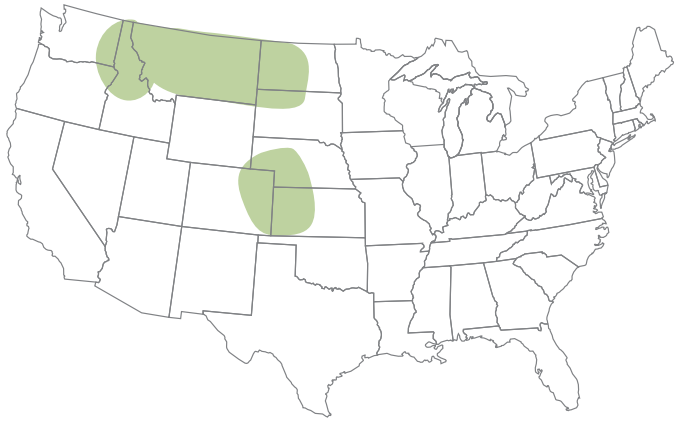
EACH VARIETY IS DIFFERENT, AND THEIR AGRONOMIC REQUIREMENTS ARE, TOO.

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

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

When it comes to field peas, let us be your trusted advisor. We'll bring our years of testing and expertise to help make this crop profitable for your farm.

KEY FIELD PEA GROWING REGIONS



CROPLAN

NEW

CROPLAN CP5222Y

Relative Flowering Date	42
Relative Maturity	78
Height	Med
Standability	Good

- High yield potential hybrid
- Early to ripen and good standability
- High productivity soil or irrigation
- Multi-region placement

NEW

CROPLAN CP5244Y

Relative Flowering Date	44
Relative Maturity	80
Height	Med
Standability	Good

- High yield potential and great protein potential
- Good straw strength and crop height at harvest
- Consistent protein yield combo
- Multi-region placement

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FIELD PEA

Product Name

Attributes

Placement

Product Name

Attributes

Placement

Product Name

Attributes

Placement

TECHNOLOGY

PROPER MANAGEMENT PROTECTS TECHNOLOGY'S VALUE

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

INSECT RESISTANCE MANAGEMENT

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

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® soybean, Roundup Ready 2 Xtend® soybean, and XtendFlex® soybean varieties typically have a higher yield opportunity than Roundup Ready® soybean varieties.

Cleanout Loss Loss of seed and/or shrink occurs during the seed cleaning and handling processes for bin-run seed.

Seed Treatment Costs Treating your seed will add costs—both the cost of the treatment and the application of that treatment.

Lost Income Every bushel of saved seed you plant is a bushel you're not selling as commodity grain.

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

High Value of New Branded Seed

Latest Technology

// High-yielding soybean technologies
// Better variety options
// Leading seed treatment options

Customer Service

// Dealer agronomic support before and after the sale
// Replant policy support
// Convenient packaging and delivery

Reliable Germination and Quality

// Rigorously tested and meets U.S. Federal Seed Act requirements
// Free of seed-borne diseases
// Properly stored and conditioned

For a list of Bayer's trait patents go to cs.bayerpatents.bayer.com

For questions regarding seed intellectual property, or to anonymously report a saved seed tip, you can contact Bayer in the following ways:

1. Call 1-866-99-BAYER
2. Send a letter: Trait Stewardship, 622 Emerson Rd., Suite 150, Creve Coeur, MO 63141
3. Submit a contact request at cropscience.bayer.us/contact or scan the QR code

SIPA™ Seed Innovation & Protection Alliance

LIBERTY LINK®

Roundup Ready 2 YIELD® SOYBEAN

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.

Content on this page provided by Bayer, please contact Bayer for more information. Due to factors such as weather, crop production patterns, product application and other factors, results to be obtained, including but not limited to yields or financial performance, cannot be predicted or guaranteed by Bayer or WinField United. Actual results may vary.

TECHNOLOGY

CORN INSECT RESISTANCE MANAGEMENT OVERVIEW[1]

QUICK COMPLIANCE GUIDE FOR DEALERS AND FARMERS

1 REFUGE SIZE

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

▸ **The Corn-Growing Area**

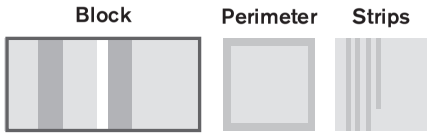
- 20% required for some B.t. products (20 acres of refuge for every 80 acres of B.t.)
- 5% only for SmartStax®, Trecepta® and VT Double PRO® (5 acres of refuge for every 95 acres of B.t.)

▸ **The Cotton-Growing Area**

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

2 REFUGE LOCATION

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



3 REFUGE PLANTING

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

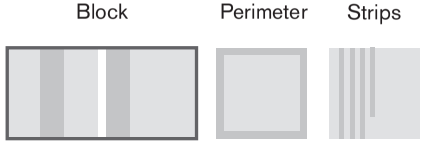
4 TREATMENT

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

COMMON REFUGE CONFIGURATIONS

Traited corn hybrid[2] Refuge

▸ **In-Field Configuration Examples**



Minimum of four rows

▸ **Adjacent-Field Configuration Examples**

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

SEPARATE REFUGE CONFIGURATIONS

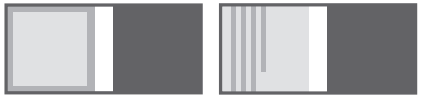
Corn borer and corn rootworm stacked hybrid

Corn rootworm refuge

Corn borer refuge

▸ **Block**

▸ **Perimeter** ▸ **Strips**



1. *Provided as a summary only. Farmers must read the IRM/Grower Guide prior to planting for important information on planting and insect resistance management.*
2. *Traited = B.t., RW or B.t./RW.*

TECHNOLOGY

REFUGE REQUIREMENTS FOR BIOTECH CORN PRODUCTS[1, 2]

	% NON-B.T. REFUGE	CONFIGURATIONS	REFUGE LOCATION
SMARTSTAX® RIB COMPLETE® CORN BLEND[3]	5% in the bag	—	No separate planted refuge is required; Not recommended for the Cotton-Growing Area. If planted, an additional 20% structured refuge is required.
SMARTSTAX® RIB COMPLETE® WITH RNAI TECHNOLOGY	5% in the bag	—	No separate planted refuge is required; Not recommended for the Cotton-Growing Area. If planted, an additional 20% structured refuge is required.
VT DOUBLE PRO® RIB COMPLETE® CORN BLEND[3]	5% in the bag	—	No separate planted refuge is required; Not recommended for the Cotton-Growing Area. If planted, an additional 20% structured refuge is required.
VT4PRO™ RIB COMPLETE® CORN BLEND	5% in the bag	—	No separate planted refuge is required; Not recommended for the Cotton-Growing Area. If planted, an additional 20% structured refuge is required.
DROUGHTGARD® HYBRIDS WITH VT DOUBLE PRO® RIB COMPLETE® CORN BLEND[3]	5% in the bag	—	No separate planted refuge is required; Not recommended for the Cotton-Growing Area. If planted, an additional 20% structured refuge is required.
TRECEPTA® RIB COMPLETE® CORN BLEND	5% in the bag	—	No separate planted refuge is required; Not recommended for the Cotton-Growing Area. If planted, an additional 20% structured refuge is required.
POWERCORE® ENLIST® REFUGE ADVANCED	5% in the bag	—	No separate planted refuge is required; Not recommended for the Cotton-Growing Area. If planted, an additional 20% structured 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
VT4PRO™ WITH RNAI TECHNOLOGY	5% corn-growing areas; 20% cotton-growing areas	Block, Perimeter, Strips, Adjacent	Within, adjacent or within 1/2 mile from VT4PRO™ with RNAi Technology field
POWERCORE® ENLIST®	5% corn-growing areas; 20% cotton-growing areas	Block, Perimeter, Strips, Adjacent	Within, adjacent or within 1/2 mile from PowerCore® Enlist® field
AGRISURE® TOTAL	5% in the bag, 20% supplemental cotton-growing areas	Block, Perimeter, Strips, Adjacent	Within or adjacent to Agrisure® Total
DURACADE™	5% in the bag, 20% supplemental cotton-growing areas	Block, Perimeter, Strips, Adjacent	Within or adjacent to Duracade™ field
HERCULEX® XTRA *INSECT PROTECTION*	20% corn-growing areas; 50% cotton-growing areas	Block, Perimeter, Strips, Adjacent	Within or adjacent to Herculex® XTRA field; if adjacent, may be separated by a road, path, ditch, etc., but not another field
HERCULEX® I *INSECT PROTECTION*	20% corn-growing areas; 50% cotton-growing areas	Block, Perimeter, Strips, Adjacent	Within, adjacent to or within 1/2 mile from Herculex® field

1. *All refuge configurations require a minimum of four rows.*
2. *Provided as a summary only. Farmers must read the IRM/Grower Guide prior to planting.*
3. *SmartStax® RIB Complete®, Trecepta®RIB Complete, VT Double PRO® RIB Complete®, VT4PRO™ RIB Complete Technology 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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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, post-emergent weed control of Liberty® herbicide for optimum yield and excellent weed control. LibertyLink®, Liberty® and the Water Droplet logo are registered trademarks of BASF.

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® and Viptera™ are trademarks of a Syngenta Group Company.

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EXCELLENCE THROUGH STEWARDSHIP

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

Forage Genetics International, LLC ("FGI") is a member of Excellence Through Stewardship® (ETS). FGI products are commercialized in accordance with ETS Product Launch Stewardship Guidance, and in compliance with FGI's Policy for Commercialization of Biotechnology-Derived Plant Products in Commodity Crops. Any crop or material produced from this product can only be exported to, or used, processed or sold only in countries where all necessary regulatory approvals have been granted. It is a violation of national and international law to move material containing biotechnology traits across boundaries into nations where import is not permitted. Growers should talk to their grain handler or product purchaser to confirm their buying position for this product. Growers should refer to biotradestatus.com for any updated information on import country approvals. Through Stewardship® is a registered trademark of Global Stewardship Group.

Corteva Agriscience is a member of Excellence Through Stewardship® (ETS). Corteva Agriscience products are commercialized in accordance with ETS Product Launch Stewardship Guidance and in compliance with the Corteva Agriscience policies regarding stewardship of those products. In line with these guidelines, Corteva Agriscience's product launch process for responsible launches of new products includes a long-standing process to evaluate export market information, value chain consultations, and regulatory functionality. Growers and end-users must take all steps within their control to follow appropriate stewardship requirements and confirm their buyer's acceptance of the grain or other material being purchased. For more detailed information on the status of a trait or stack, please visit www.biotradestatus.com.

Excellence Through Stewardship® is a registered trademark of Global Stewardship Group.

Insect Resistance Management
Planting Refuges, Preserving Technology

Before opening a bag of seed, be sure to read, understand and accept the stewardship requirements, **including applicable refuge requirements for insect resistance management,** for the biotechnology traits expressed in the seed as set forth in the Technology/Stewardship Agreement that you sign. By opening and using a bag of seed, you are reaffirming your obligation and agreement to comply with the most recent stewardship requirements.

RESPECT THE REFUGE

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 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.

Refuge seed may not always contain the DroughtGard® trait. IMPORTANT IRM INFORMATION: Certain products are sold as RIB Complete® corn blend products, and do not require the planting of a structured refuge except in the Cotton-Growing Area where corn earworm is a significant pest. Products sold without refuge in the bag (non-RIB Complete) require the planting of a structured refuge. See the IRM/Grower Guide for additional information. Always read and follow IRM requirements.

Roundup Ready® Technology contains genes that confer tolerance to glyphosate. Roundup Ready® 2 Technology contains genes that confer tolerance to glyphosate. Roundup Ready 2 Xtend® soybeans contain genes that confer tolerance to glyphosate and dicamba. Products with XtendFlex® Technology contains genes that confer tolerance to glyphosate, glufosinate and dicamba. Plants that are not tolerant to glyphosate may be damaged or killed if exposed to those herbicides. Plants that are not tolerant to glyphosate, dicamba, and/or glufosinate may be damaged or killed if exposed to those herbicides. Plants that are not tolerant to dicamba may be damaged or killed if exposed to those herbicides. Contact your seed brand dealer or refer to the Bayer Technology Use Guide for recommended weed control programs.

No dicamba may be used in-crop with seed with Roundup Ready® Xtend Technology, unless and until approved or specifically permitted, and no dicamba formulations are currently registered for such use in the 2024 season. Please follow https://www.roundupreadyxtend.com/pages/xtendimax-updates.aspx for status updates.

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

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

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

Seeds containing the Enlist, Herculex and PowerCore traits are protected under numerous US patents. Seeds containing patented traits can only be used to plant a single commercial crop and cannot be saved or replanted. You acknowledge and agree to be bound by the terms and conditions of the following documents in effect at the time of planting of this seed: (i) the Technology Use Agreement and (ii) the Product Use Guides for all technologies in this seed, including the Herbicide Resistance Management (HRM), and Use requirements detailed therein (www.corteva.us/Resources/trait-stewardship.html). To plant Enlist, Herculex and PowerCore seed, you must have a limited license from Corteva Agriscience. In consideration of the foregoing, Corteva Agriscience grants to the Grower the limited license to use its technology to produce only a single commercial crop in the United States under the terms and conditions set forth in the Technology Use Agreement in effect at the time of planting of this seed.

ALWAYS READ AND FOLLOW HERBICIDE LABEL DIRECTIONS PRIOR TO USE: Always read and follow herbicide label directions prior to use: Enlist® products contain the Enlist trait that provides crop safety for use of labeled over-the-top applications of glyphosate, glufosinate and 2,4-D herbicides featuring Colex-D® technology when applied according to label directions. Following burndown, the only 2,4-D containing herbicide products that may be used with Enlist™ crops are products that feature Colex-D technology and are expressly labeled for use on Enlist crops. 2,4-D products that do not contain Colex-D technology are not authorized for use in conjunction with Enlist products. Enlist corn contains genes that confer tolerance to 2,4-D and -fop herbicides. 2,4-D and -fop herbicides will damage or kill crops that are not tolerant to 2,4-D or -fops.

IRM - Properly managing trait technology is key to preserving it as a long-term crop protection tool. Growers who fail to comply with IRM requirements risk losing access to this product. To help preserve the effectiveness of B.t. corn technologies, growers planting B.t. corn technologies are required to follow an IRM Plan. Consult the Corn Product Use Guide for appropriate refuge configuration options. Before opening a bag of seed, be sure to read, understand and accept the stewardship requirements, including applicable refuge requirements for insect resistance management, for the biotechnology traits expressed in the seed as set forth in the Technology Use Agreement and Product Use Guide. By opening and using a bag of seed, you are reaffirming your obligation to comply with the most recent stewardship requirements. For complete details on IRM requirements for hybrids with Bt technology, including refuge examples and important information on the use of insecticides on refuge and Bt corn acres, please consult appropriate Product Use Guide. Go to www.corteva.us/ Resources/trait-stewardship.html to download the latest Corteva Agriscience Corn Product Use Guide.

Enlist E3® Soybeans and PowerCore® Enlist® Refuge Advanced® Corn

Seeds containing the PowerCore® Enlist®, PowerCore® Enlist® Refuge Advanced®, and Enlist® Corn - REFUGE traits are protected under one or more U.S. patents which can be found at: www.traitstewardship.com. The purchase of this traited seed includes a limited license to produce a single crop in the United States. The use of seed from such a crop and/or the progeny thereof for propagation or seed multiplication or for production or development of a hybrid or different variety of seed is strictly prohibited. You acknowledge and agree to be bound by the terms and conditions of the following documents in effect at the time of planting of this seed: (i) the Corteva Agriscience Technology Use Agreement and (ii) the Product Use Guides for all technologies in this seed, including the Herbicide Resistance Management (HRM),and Use requirements.

To plant PowerCore Enlist, PowerCore Enlist Refuge Advanced, and Enlist Corn - REFUGE seed, you must have a limited license from Corteva Agriscience (or other appropriate affiliates). In consideration of the foregoing, Corteva Agriscience grants to the Grower a limited license to use its technology to produce only a single commercial crop in the United States under the terms and conditions set forth in the Technology Use Agreement in effect at the time of planting of this seed.

Enlist E3® soybean seeds containing the Enlist® trait can only be used to plant a single commercial crop. It is unlawful to save and replant Enlist E3® soybeans. Additional information and limitations on the use of these products are provided in the Corteva Agriscience Technology Use Agreement and Enlist® Soybean Product Use Guide. U.S. patents for Corteva Agriscience technologies can be found at the following webpage: www.corteva.us/Resources/trait-stewardship.html.

Following burndown, Enlist Duo® and Enlist One® herbicides with Colex-D® technology are the only herbicides containing 2,4-D that are authorized for preemergence and postemergence use with Enlist® corn and soybeans. Consult Enlist® herbicide labels for weed species controlled. Enlist Duo and Enlist One herbicides are not registered for use or sale in all states and counties; are not registered in AK, CA, CT, HI, ID, MA, ME, MT, NH, NV, OR, RI, UT, VT, WA and WY; and have additional subcounty restrictions in AL, GA, TN and TX, while existing county restrictions still remain in FL. All users must check “Bulletins Live! Two” no earlier than six months before using Enlist One or Enlist Duo. To obtain “Bulletins,” consult epa.gov/espp/, call 1-844-447-3813, or email ESPP@epa.gov. You must use the “Bulletin” valid for the month and state and county in which Enlist One or Enlist Duo are being applied. Contact your state pesticide regulatory agency if you have questions about the registration status of Enlist® herbicides in your area. 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. ONLY USE FORMULATIONS THAT ARE SPECIFICALLY LABELED FOR SUCH USE IN THE STATE OF APPLICATION. USE OF PESTICIDE PRODUCTS, INCLUDING, WITHOUT LIMITATION, 2,4-D-CONTAINING PRODUCTS NOT AUTHORIZED FOR USE WITH ENLIST CORN AND SOYBEANS, MAY RESULT IN OFF-TARGET DAMAGE TO SENSITIVE CROPS/AREAS AND/OR SUSCEPTIBLE PLANTS, IN ADDITION TO CIVIL AND/OR CRIMINAL PENALTIES. Additional product-specific stewardship requirements for Enlist crops, including the Enlist Product Use Guide, can be found at www.traitstewardship.com.

POWERCORE® is a registered trademark of Monsanto Technology LLC. POWERCORE® multi-event technology developed by Corteva Agriscience and Monsanto. Liberty®, LibertyLink® and the Water Droplet Design are registered trademarks of BASF. ®Roundup and Roundup Ready are registered trademarks of Bayer Group. Always follow IRM, grain marketing and all other stewardship practices and pesticide label directions. B.t. products may not yet be registered in all states. Check with your seed representative for the registration status in your state.

The transgenic soybean event in Enlist E3® soybeans is jointly developed and owned by Corteva Agriscience and M.S. Technologies, L.L.C.

Excellence Through Stewardship® is a registered trademark of Excellence Through Stewardship.

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GENERAL DISCLAIMERS

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

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

SOYBEAN AND CANOLA PIRACY

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

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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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