

**CROPLAN**®

# 2024 SEED GUIDE



## **CROPS**

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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



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

## Optimize Seed ROI

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

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

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

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

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

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

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

### **ZINC SEED TREATMENT IN THE BAG**

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

1. 2020 Answer Plot® trial data.



# CROPLAN® TRAIT LETTERING FOR CORN HYBRIDS

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

| KEY               | HYBRID   | TRAIT  | LOGO |
|-------------------|--|--|------|
| <b>SS/RIB</b>     | SmartStax® RIB Complete® Corn Blend                  | Two built-in modes of action, to deliver maximum control of corn rootworm. As a RIB Complete® brand corn blend, means refuge compliance for the Corn-Growing Area is easier than ever. Two more sites of action provide tolerance to glyphosate and glufosinate herbicide applications.  |      |
| <b>SSPRO/RIB</b>  | SmartStax® PRO Complete® Corn Blend                  | Is the next generation of protection against corn rootworm. SmartStax® PRO Technology combines the proven benefits of SmartStax® Technology with an additional, unique RNAi-based mode of action — becoming the first product with three modes of action for corn rootworm control. Plus, it's a RIB Complete® brand corn blend, which means refuge compliance for the Corn-Growing Area is easier than ever. Products available with and without refuge in bag options.   |      |
| <b>VT2P/RIB</b>   | VT Double PRO® RIB Complete® Corn Blend              | Dual modes of action for maximum protection against above-ground pests, like European and Southwestern corn borers and fall armyworm. An additional site of action helps plants withstand glyphosate to prevent weeds from competing with corn. As a RIB Complete® brand corn blend, means refuge compliance for the Corn-Growing Area is easier than ever. Products available with and without refuge in bag options.   |      |
| <b>RR</b>         | 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.  |      |
| <b>TRE/RIB</b>    | Trecepta® RIB Complete® Corn Blend                   | Trecepta® Technology helps reduce yield loss by protecting your corn crop from a wide range of above-ground pests. Built on the proven VT Double PRO® Technology, Trecepta Technology gives you more complete control against corn borers (European and southwestern), fall armyworm, western bean cutworm, black cutworm and corn earworm. Trecepta contains Roundup Ready 2 Technology® which allows the corn plant to withstand glyphosate treatments. Plus, it's a RIB Complete® brand corn blend, which means refuge compliance for the Corn-Growing Area is easier than ever. Products available with and without refuge in bag options.   |      |
| <b>DGVT2P/RIB</b> | 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. |      |
| <b>D</b>          | 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.  |      |





# SEED TREATMENTS

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

## Fortivent® Plus

By WINFIELD UNITED

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

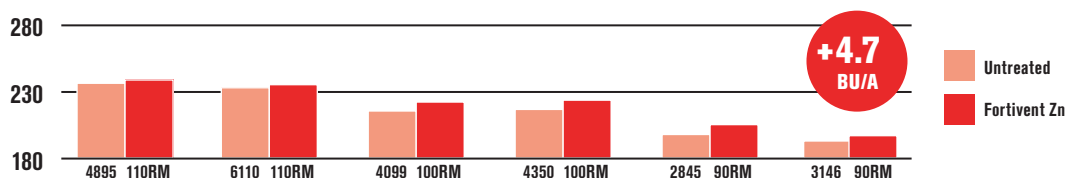
Fortivent® Plus seed treatment combines the early-season insect control of Poncho® VOTiVO® seed treatment, ethaboxam fungicide for enhanced Pythium control and Fortivent Zn for early-season corn vigor. The Poncho® insecticide at a rate of 500 mg active ingredient combined with the nematode control of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

#### ► Fortivent® Plus Features and Benefits

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

### UNLOCK YIELD ADVANTAGE WITH ZINC

#### ► Fortivent Zn — 2018 Answer Plot® Testing



#### ACTIVE INGREDIENTS\*

##### Insecticide

|               |      |
|---------------|------|
| Clothianidin  | 500  |
| *Clothianidin | 1250 |

##### Base Fungicides (Acceleron® Seed Treatment)

|                 |                              |
|-----------------|------------------------------|
| Fluoxastrobin   | 0.24 fl. oz./100 lbs of seed |
| Prothioconazole | 0.24 fl. oz./100 lbs of seed |
| Metalaxyl       | 0.10 fl. oz./100 lbs of seed |
| Ethaboxam       | 0.34 fl. oz./100 lbs of seed |

##### Nematicide

|                 |                          |
|-----------------|--------------------------|
| Poncho® VOTiVO® | 2.7 fl. oz./80,000 seeds |
|-----------------|--------------------------|

\*Always read and follow label instructions.

[winfieldunited.com](http://winfieldunited.com)

CROPLAN

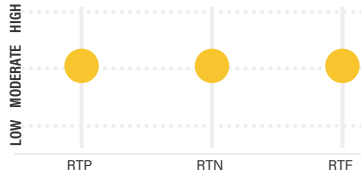


**CROPLAN CP2180VT2P/RIB**

Relative Maturity: 81



**Response Scores**



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

**Characteristics**

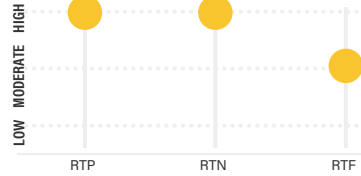
|                   | Not Recommended | Excellent |
|-------------------|-----------------|-----------|
| Seedling Vigor    | 2               | 2         |
| Drought Tolerance | 3               |           |
| Root Strength     | 2               |           |
| Staygreen         | 3               | 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

**CROPLAN CP2288VT2P/RIB**

Relative Maturity: 82



**Response Scores**



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

**Characteristics**

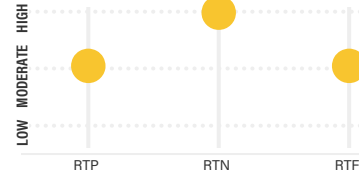
|                   | Not Recommended | Excellent |
|-------------------|-----------------|-----------|
| Seedling Vigor    | 2               |           |
| Drought Tolerance | 2               |           |
| Root Strength     | 1               |           |
| Staygreen         | 2               | 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

**CROPLAN CP2315VT2P/RIB**

Relative Maturity: 83



**Response Scores**



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

**Characteristics**

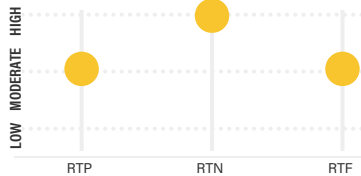
|                   | Not Recommended | Excellent |
|-------------------|-----------------|-----------|
| Seedling Vigor    | 2               |           |
| Drought Tolerance | 2               |           |
| Root Strength     | 2               |           |
| Staygreen         | 3               | 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

**CROPLAN CP2585VT2P/RIB**

Relative Maturity: 85



**Response Scores**



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

**Characteristics**

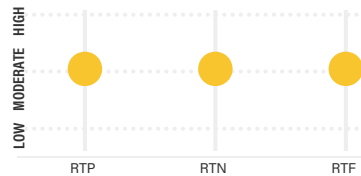
|                   | Not Recommended | Excellent |
|-------------------|-----------------|-----------|
| Seedling Vigor    | 2               | 2         |
| Drought Tolerance | 3               |           |
| Root Strength     | 3               |           |
| Staygreen         | 3               | 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

**CROPLAN CP2520RR**

Relative Maturity: 86



**Response Scores**



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

**Characteristics**

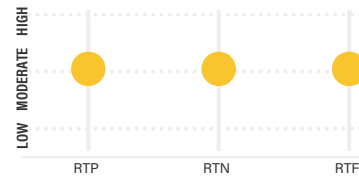
|                   | Not Recommended | Excellent |
|-------------------|-----------------|-----------|
| Seedling Vigor    | 3               |           |
| Drought Tolerance | 1               |           |
| Root Strength     | 1               |           |
| Staygreen         | 3               | 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

**CROPLAN CP2692D**

Relative Maturity: 86



**Response Scores**



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

**Characteristics**

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

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

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



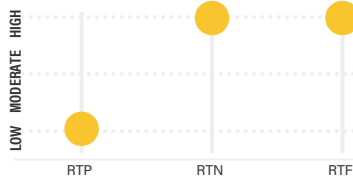
CROPLAN® corn silage hybrids that consistently perform for high-quality and high-tonnage in Answer Plot® trials.

**CROPLAN CP2790VT2P/RIB**

Relative Maturity: 87



**Response Scores**



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

**Characteristics**

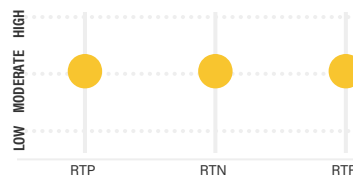
|                   | Not Recommended | Excellent |
|-------------------|-----------------|-----------|
| Seedling Vigor    | 2               | 1         |
| Drought Tolerance | 2               | 1         |
| Root Strength     | 2               | 2         |
| Staygreen         | 3               | 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

**CROPLAN CP2851VT2P/RIB**

Relative Maturity: 88



**Response Scores**



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

**Characteristics**

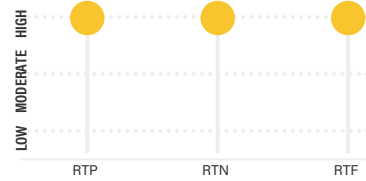
|                   | Not Recommended | Excellent |
|-------------------|-----------------|-----------|
| Seedling Vigor    | 3               |           |
| Drought Tolerance | 3               |           |
| Root Strength     | 2               |           |
| Staygreen         | 3               | 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

**CROPLAN CP2845SS/RIB**

[VT2P/RIB]\*  
Relative Maturity: 89



**Response Scores**



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

**Characteristics**

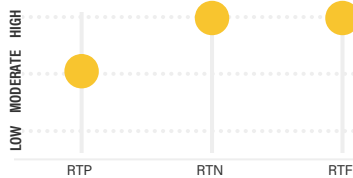
|                   | Not Recommended | Excellent |
|-------------------|-----------------|-----------|
| Seedling Vigor    | 2               | 1         |
| Drought Tolerance | 2               | 1         |
| Root Strength     | 2               | 1         |
| Staygreen         | 3               | 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

**CROPLAN CP2965VT2P/RIB**

[RR]  
Relative Maturity: 89



**Response Scores**



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

**Characteristics**

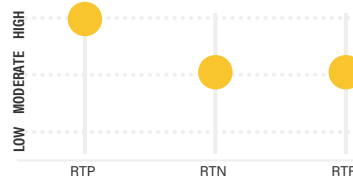
|                   | Not Recommended | Excellent |
|-------------------|-----------------|-----------|
| Seedling Vigor    | 2               | 1         |
| Drought Tolerance | 2               |           |
| Root Strength     | 2               |           |
| Staygreen         | 3               | 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

**CROPLAN CP3166VT2P/RIB**

Relative Maturity: 91



**Response Scores**



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

**Characteristics**

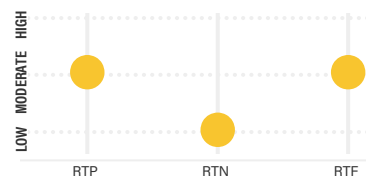
|                   | Not Recommended | Excellent |
|-------------------|-----------------|-----------|
| Seedling Vigor    | 2               |           |
| Drought Tolerance | 2               |           |
| Root Strength     | 3               |           |
| Staygreen         | 3               | 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

**CROPLAN CP3314VT2P/RIB**

Relative Maturity: 93



**Response Scores**



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

**Characteristics**

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

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

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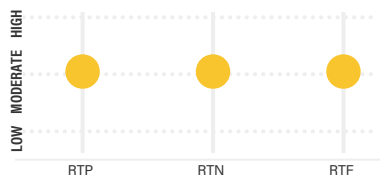
CROPLAN® corn silage hybrids that consistently perform for high-quality and high-tonnage in Answer Plot® trials.

**CROPLAN CP3337VT2P/RIB**

[RR]  
Relative Maturity: 93



**Response Scores**



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

**Characteristics**

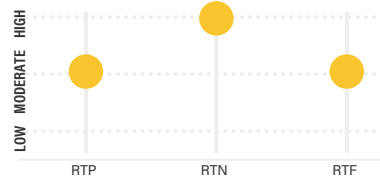
|                   | Not Recommended |  |   | Excellent |  |   |
|-------------------|-----------------|--|---|-----------|--|---|
| Seedling Vigor    | 2               |  |   |           |  |   |
| Drought Tolerance |                 |  |   |           |  | 1 |
| Root Strength     |               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

**CROPLAN CP3399SS/RIB**

Relative Maturity: 94



**Response Scores**



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

**Characteristics**

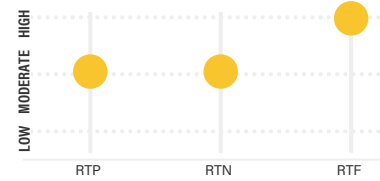
|                   | Not Recommended |  |  | Excellent |  |   |
|-------------------|-----------------|--|--|-----------|--|---|
| Seedling Vigor    |                 |  |  |           |  | 2 |
| Drought Tolerance |                 |  |  |           |  | 2 |
| Root Strength     |                 | 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

**CROPLAN CP3490VT2P/RIB**

Relative Maturity: 94



**Response Scores**



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

**Characteristics**

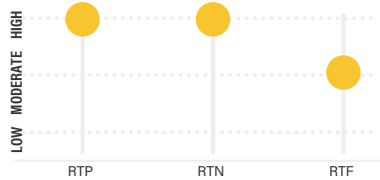
|                   | Not Recommended |  |  | Excellent |  |   |
|-------------------|-----------------|--|--|-----------|--|---|
| Seedling Vigor    |                 |  |  |           |  | 1 |
| Drought Tolerance |                 |  |  |           |  | 2 |
| Root Strength     |                 | 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

**CROPLAN CP3575VT2P/RIB**

Relative Maturity: 95



**Response Scores**



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

**Characteristics**

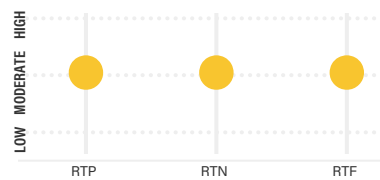
|                   | Not Recommended |  |  | Excellent |  |   |
|-------------------|-----------------|--|--|-----------|--|---|
| Seedling Vigor    |                 |  |  |           |  | 2 |
| Drought Tolerance |                 |  |  |           |  | 3 |
| Root Strength     |                 | 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

**CROPLAN CP3699RR**

Relative Maturity: 96



**Response Scores**



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

**Characteristics**

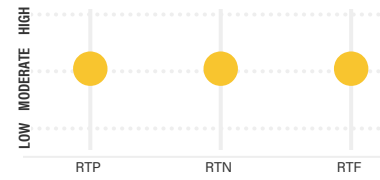
|                   | Not Recommended |  |  | Excellent |  |   |
|-------------------|-----------------|--|--|-----------|--|---|
| Seedling Vigor    |                 |  |  |           |  | 1 |
| Drought Tolerance |                 |  |  |           |  | 2 |
| Root Strength     |                 | 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

**CROPLAN CP3715SSPRO/RIB**

Relative Maturity: 97



**Response Scores**



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

**Characteristics**

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

**KEY Scale**  
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 3 = Acceptable  
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CROPLAN® corn silage hybrids that consistently perform for high-quality and high-tonnage in Answer Plot® trials.



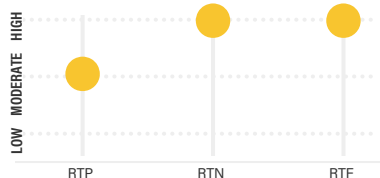
NEW

**CROPLAN CP3724VT2P/RIB**

Relative Maturity: 97



**Response Scores**



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

**Characteristics**

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

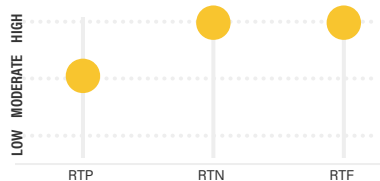
NEW

**CROPLAN CP3735SS/RIB**

[VT2P/RIB]\*  
Relative Maturity: 97



**Response Scores**



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

**Characteristics**

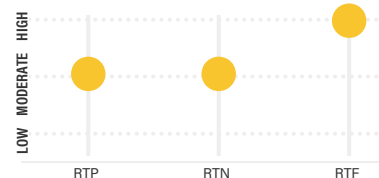
|                   | Not Recommended | Excellent |
|-------------------|-----------------|-----------|
| Seedling Vigor    | 2               | 1         |
| Drought Tolerance | 3               | 2         |
| Root Strength     | 2               | 2         |
| Staygreen         | 2               | 2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

**CROPLAN CP3852TRE/RIB**

Relative Maturity: 98



**Response Scores**



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

**Characteristics**

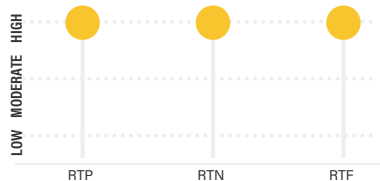
|                   | Not Recommended | Excellent |
|-------------------|-----------------|-----------|
| Seedling Vigor    | 2               | 2         |
| Drought Tolerance | 2               | 2         |
| Root Strength     | 2               | 2         |
| Staygreen         | 2               | 2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

**CROPLAN CP3899VT2P/RIB**

Relative Maturity: 98



**Response Scores**



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

**Characteristics**

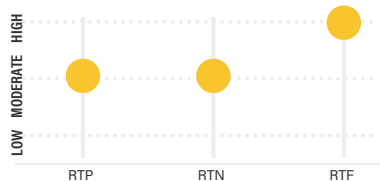
|                   | Not Recommended | Excellent |
|-------------------|-----------------|-----------|
| Seedling Vigor    | 2               | 1         |
| Drought Tolerance | 2               | 2         |
| Root Strength     | 2               | 2         |
| Staygreen         | 2               | 2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

**CROPLAN CP3980VT2P/RIB**

Relative Maturity: 99



**Response Scores**



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

**Characteristics**

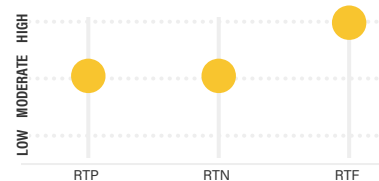
|                   | Not Recommended | Excellent |
|-------------------|-----------------|-----------|
| Seedling Vigor    | 2               | 2         |
| Drought Tolerance | 3               | 2         |
| Root Strength     | 2               | 1         |
| Staygreen         | 3               | 2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

**CROPLAN CP4079VT2P/RIB**

Relative Maturity: 100



**Response Scores**



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

**Characteristics**

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

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

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

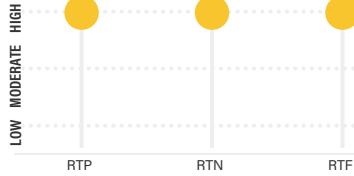
CROPLAN® corn silage hybrids that consistently perform for high-quality and high-tonnage in Answer Plot® trials.

**CROPLAN CP4099SS/RIB**

Relative Maturity: 100



**Response Scores**



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

**Characteristics**

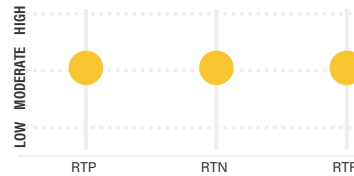
|                   | Not Recommended |  |   | Excellent |   |   |
|-------------------|-----------------|--|---|-----------|---|---|
| Seedling Vigor    |                 |  |   |           |   | 1 |
| Drought Tolerance |                 |  |   |           | 2 |   |
| Root Strength     |           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

**CROPLAN CP4188SS/RIB**

[VT2P/RIB\*, CONV]  
Relative Maturity: 101



**Response Scores**



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

**Characteristics**

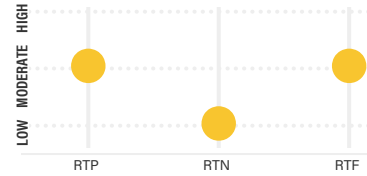
|                   | Not Recommended |  |   | Excellent |   |   |
|-------------------|-----------------|--|---|-----------|---|---|
| Seedling Vigor    |                 |  |   |           |   | 1 |
| Drought Tolerance |                 |  |   |           | 2 |   |
| Root Strength     |           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

**CROPLAN CP4265VT2P/RIB**

Relative Maturity: 102



**Response Scores**



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

**Characteristics**

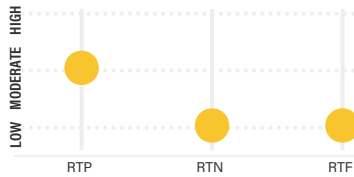
|                   | Not Recommended |  |   | Excellent |   |   |
|-------------------|-----------------|--|---|-----------|---|---|
| Seedling Vigor    |                 |  |   |           |   | 1 |
| Drought Tolerance |                 |  | 3 |           |   |   |
| Root Strength     |           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

**CROPLAN CP4822VT2P/RIB**

Relative Maturity: 103



**Response Scores**



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

**Characteristics**

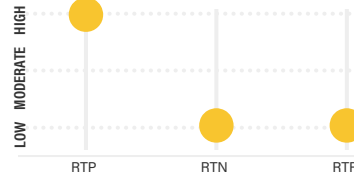
|                   | Not Recommended |  |   | Excellent |   |   |
|-------------------|-----------------|--|---|-----------|---|---|
| Seedling Vigor    |                 |  |   |           | 2 |   |
| Drought Tolerance |                 |  |   |           | 2 |   |
| Root Strength     |           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

**CROPLAN CP4444VT2P/RIB**

Relative Maturity: 104



**Response Scores**



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

**Characteristics**

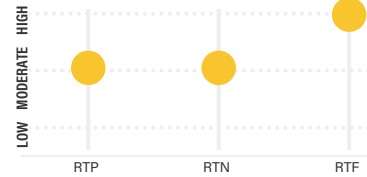
|                   | Not Recommended |  |   | Excellent |   |   |
|-------------------|-----------------|--|---|-----------|---|---|
| Seedling Vigor    |                 |  |   |           |   | 1 |
| Drought Tolerance |                 |  | 3 |           |   |   |
| Root Strength     |           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

**CROPLAN CP4516TRE/RIB**

Relative Maturity: 105



**Response Scores**



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

**Characteristics**

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

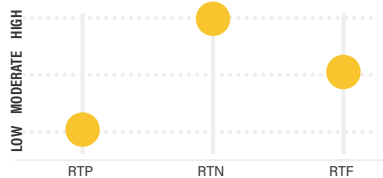
**KEY** Scale  
 1 = Excellent  
 2 = Strong  
 3 = Acceptable  
 4 = Manage  
 5 = Not Recommended

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

**NEW****CROPLAN CP4652SSPRO/RIB**

Relative Maturity: 106

**SmartStax<sup>PRO</sup>**  
RIB COMPLETE**Response Scores**

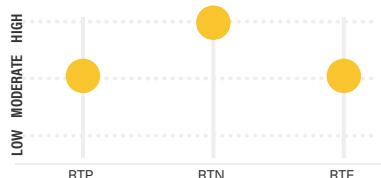
- Versatile hybrid that can work well within zone and south of zone
- Excellent top end yield potential hybrid
- Responds favorably to additional nitrogen applications
- Maximize late season staygreen with fungicide application

**Characteristics**

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

**CROPLAN CP4676SS/RIB**

Relative Maturity: 106

**SmartStax<sup>PRO</sup>**  
RIB COMPLETE**Response Scores**

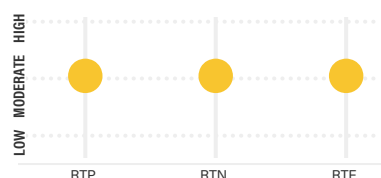
- Versatile hybrid, position and manage for high yield
- Medium-height hybrid with excellent emergence, seedling vigor and test weight
- Position at medium populations and manage nitrogen for high-yield-potential
- Fungicide application recommended in areas prone to gray leaf spot

**Characteristics**

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

**CROPLAN CP4757VT2P/RIB**

Relative Maturity: 107

**VTDoublePRO<sup>®</sup>**  
RIB COMPLETE**Response Scores**

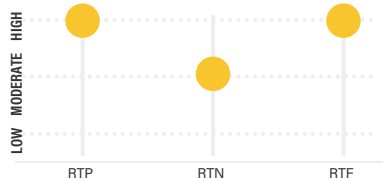
- Best performance potential on medium to highly productive acres
- Strong roots and test weight with high yield potential
- Moderate response to nitrogen and fungicide offers great flexibility
- Best suited for rotated acres

**Characteristics**

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

**CROPLAN CP4880SS/RIB**

Relative Maturity: 108

**SmartStax<sup>PRO</sup>**  
RIB COMPLETE**Response Scores**

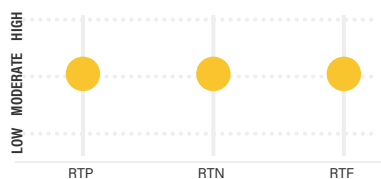
- Best performance on high yield potential, well drained soils
- SmartStax<sup>PRO</sup> hybrid with exceptional top end yield potential
- Strong stalks and strong roots
- Acceptable Goss's Wilt tolerance

**Characteristics**

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

**CROPLAN CP4930DGVT2P/RIB**

Relative Maturity: 109

**DroughtGard<sup>®</sup>**  
VT Double PRO**Response Scores**

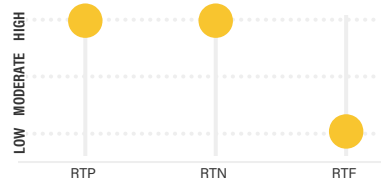
- Strong western adaptation with good Goss's wilt and strong greensnap tolerance
- Exceptional top end yield potential
- Plant at moderate populations due to semi-flex ear
- Recommend a fungicide application in areas with high disease pressure

**Characteristics**

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

**CROPLAN CP4997VT2P/RIB**

Relative Maturity: 109

**VTDoublePRO<sup>®</sup>**  
RIB COMPLETE**Response Scores**

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

**Characteristics**

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

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

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



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

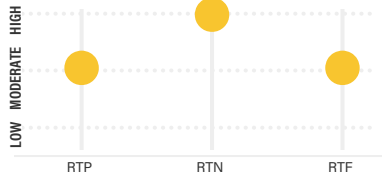


**CROPLAN CP5073SS/RIB**

[VT2P/RIB]\*  
Relative Maturity: 110



**Response Scores**



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

**Characteristics**

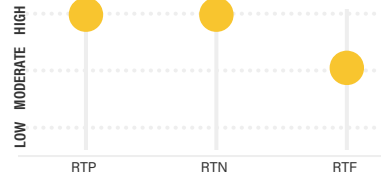
|                   | Not Recommended |   |   | Excellent |  |
|-------------------|-----------------|---|---|-----------|--|
| Seedling Vigor    |                 |   |   | 1         |  |
| Drought Tolerance |                 |   | 2 |           |  |
| Root Strength     |                 |   | 2 | 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

**CROPLAN CP5115SS/RIB**

[VT2P/RIB]\*  
Relative Maturity: 111



**Response Scores**



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

**Characteristics**

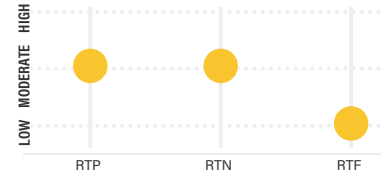
|                   | Not Recommended |  |   | Excellent |   |
|-------------------|-----------------|--|---|-----------|---|
| Seedling Vigor    |                 |  |   |           | 1 |
| Drought Tolerance |                 |  |   | 2         |   |
| Root Strength     |                 |  |   |  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

**CROPLAN CP5208VT2P/RIB**

Relative Maturity: 112



**Response Scores**



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

**Characteristics**

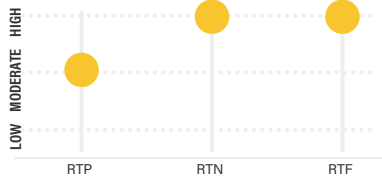
|                   | Not Recommended |  |   | Excellent |   |
|-------------------|-----------------|--|---|-----------|---|
| Seedling Vigor    |                 |  |   | 2         |   |
| Drought Tolerance |                 |  |   | 2         |   |
| Root Strength     |                 |  |   | 2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

**CROPLAN CP5210SS/RIB**

Relative Maturity: 112



**Response Scores**



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

**Characteristics**

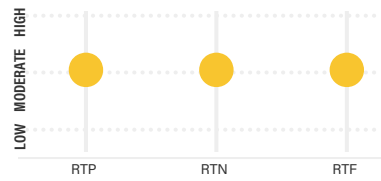
|                   | Not Recommended |  |   | Excellent |   |
|-------------------|-----------------|--|---|-----------|---|
| Seedling Vigor    |                 |  |   |           | 1 |
| Drought Tolerance |                 |  | 3 |           |   |
| Root Strength     |                 |  | 3 |  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

**CROPLAN CP5244VT2P/RIB**

Relative Maturity: 112



**Response Scores**



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

**Characteristics**

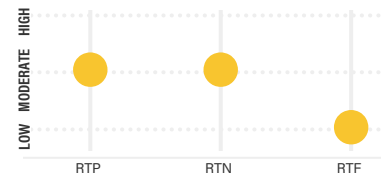
|                   | Not Recommended |  |   | Excellent |  |
|-------------------|-----------------|--|---|-----------|--|
| Seedling Vigor    |                 |  |   | 2         |  |
| Drought Tolerance |                 |  |   | 2         |  |
| Root Strength     |                 |  |   | 2    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

**CROPLAN CP5340VT2P**

[CONV]  
Relative Maturity: 113



**Response Scores**



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

**Characteristics**

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

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

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



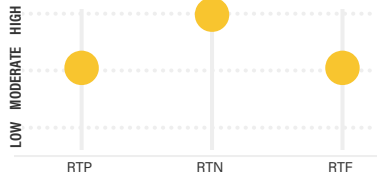
CROPLAN® corn silage hybrids that consistently perform for high-quality and high-tonnage in Answer Plot® trials.

**CROPLAN CP5335SS/RIB**

[VT2P/RIB]\*  
Relative Maturity: 113



**Response Scores**



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

**Characteristics**

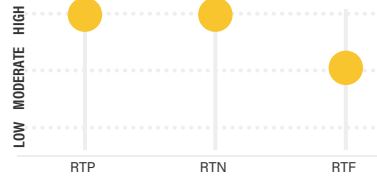
|                   | Not Recommended | Excellent |
|-------------------|-----------------|-----------|
| Seedling Vigor    | 2               |           |
| Drought Tolerance | 2               |           |
| Root Strength     | 2               |           |
| Staygreen         | 2               | 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

**CROPLAN CP5370SS/RIB**

[VT2P/RIB]\*  
Relative Maturity: 113



**Response Scores**



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

**Characteristics**

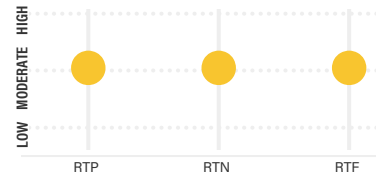
|                   | Not Recommended | Excellent |
|-------------------|-----------------|-----------|
| Seedling Vigor    |                 | 1         |
| Drought Tolerance |                 | 2         |
| Root Strength     |                 | 1         |
| Staygreen         |                 | 1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

**CROPLAN CP6594SS/RIB**

[VT2P/RIB]\*  
Relative Maturity: 113



**Response Scores**



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

**Characteristics**

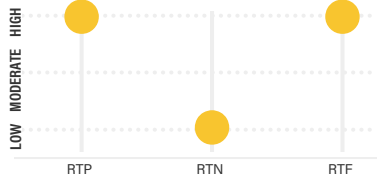
|                   | Not Recommended | Excellent |
|-------------------|-----------------|-----------|
| Seedling Vigor    |                 | 2         |
| Drought Tolerance |                 | 2         |
| Root Strength     |                 | 1         |
| Staygreen         |                 | 2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

**CROPLAN CP5497VT2P/RIB**

Relative Maturity: 114



**Response Scores**



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

**Characteristics**

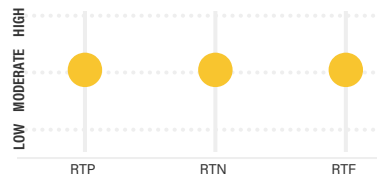
|                   | Not Recommended | Excellent |
|-------------------|-----------------|-----------|
| Seedling Vigor    |                 | 2         |
| Drought Tolerance |                 | 2         |
| Root Strength     |                 | 2         |
| Staygreen         | 3               | 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

**CROPLAN CP5550VT2P/RIB**

Relative Maturity: 115



**Response Scores**



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

**Characteristics**

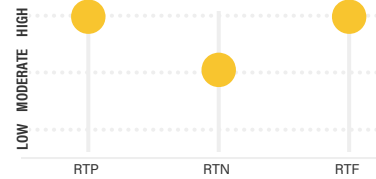
|                   | Not Recommended | Excellent |
|-------------------|-----------------|-----------|
| Seedling Vigor    |                 | 3         |
| Drought Tolerance |                 | 2         |
| Root Strength     |                 | 2         |
| Staygreen         | 3               | 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

**CROPLAN CP5570VT2P/RIB**

Relative Maturity: 115



**Response Scores**



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

**Characteristics**

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

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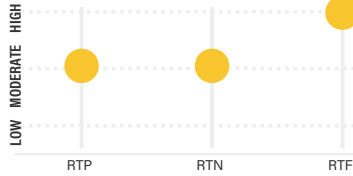
CROPLAN® corn silage hybrids that consistently perform for high-quality and high-tonnage in Answer Plot® trials.

**CROPLAN CP5588DGV2P/RIB**

Relative Maturity: 115



**Response Scores**



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

**Characteristics**

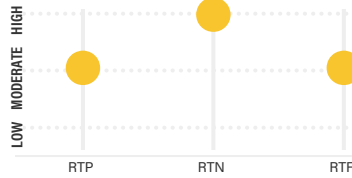
|                   | Not Recommended |  |   | Excellent |  |
|-------------------|-----------------|--|---|-----------|--|
| Seedling Vigor    |                 |  |   | 2         |  |
| Drought Tolerance |                 |  |   | 2         |  |
| Root Strength     |                 |  |   | 2    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

**CROPLAN CP5678SS/RIB**

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



**Response Scores**



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

**Characteristics**

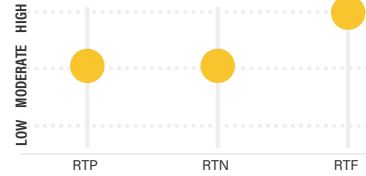
|                   | Not Recommended |  |   | Excellent |   |
|-------------------|-----------------|--|---|-----------|---|
| Seedling Vigor    |                 |  |   | 2         |   |
| Drought Tolerance |                 |  |   | 2         |   |
| Root Strength     |                 |  | 3 |  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

**CROPLAN CP5717VT2P/RIB**

Relative Maturity: 117



**Response Scores**



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

**Characteristics**

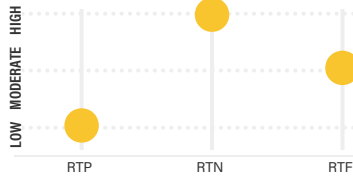
|                   | Not Recommended |   |   | Excellent |   |
|-------------------|-----------------|---|---|-----------|---|
| Seedling Vigor    |                 |   | 3 |           |   |
| Drought Tolerance |                 |   | 3 |           |   |
| Root Strength     |                 |   | 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

**CROPLAN CP5760TRE/RIB**

Relative Maturity: 117



**Response Scores**



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

**Characteristics**

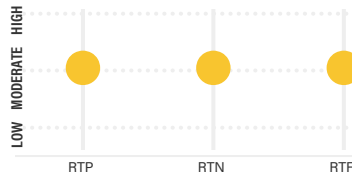
|                   | Not Recommended |  |   | Excellent |  |
|-------------------|-----------------|--|---|-----------|--|
| Seedling Vigor    |                 |  |   | 2         |  |
| Drought Tolerance |                 |  | 3 |           |  |
| Root Strength     |                 |  | 3 |      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

**CROPLAN CP5893TRE/RIB**

Relative Maturity: 118



**Response Scores**



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

**Characteristics**

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

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





# CORN

# CROPLAN

Response to Nitrogen (RTN) **1**  
 Response to Fungicide (RTF) **1**  
 GDU to Mid-pollination\*\*  
 GDU to Maturity\*\*  
 Flower Date **5**  
 Plant Height **2**  
 Ear Height **2**  
 Cob Color **3**  
 Ear Flex **4**  
 Kernel Rows  
 Seeding Vigor  
 Stalk Quality  
 Root Strength **6**  
 Stay Green  
 Drought Tolerance  
 Test Weight  
 Gray Leaf Spot  
 NCLB  
 SCLB  
 Common Rust  
 Goss's Wilt  
 Physoderma Node Breakage  
 Diplodia Ear Rot

## BRAND

### RM: 81-96

|                 |    |   |   |   |      |      |     |     |     |     |    |       |   |   |   |   |   |    |   |    |    |    |    |    |    |    |    |    |
|-----------------|----|---|---|---|------|------|-----|-----|-----|-----|----|-------|---|---|---|---|---|----|---|----|----|----|----|----|----|----|----|----|
| CP2180VT2P/R1B* | 81 | M | M | M | 2025 | 1070 | M-E | M   | M   | RED | SD | 18-20 | 2 | 2 | 2 | 3 | 2 | 3  | 3 | 3  | NA | 2  | NA | 3  | 3  | NA | NA |    |
| CP2288VT2P/R1B* | 82 | H | H | M | 2065 | 1090 | M   | M   | M   | RED | SF | 16-18 | 2 | 2 | 1 | 2 | 2 | 2  | 2 | 1  | NA | 2  | NA | 2  | 3  | NA | NA |    |
| CP2315VT2P/R1B* | 83 | M | H | M | 2075 | 1080 | E   | M-T | M   | RED | SF | 18-20 | 2 | 3 | 2 | 3 | 2 | 2  | 3 | 3  | 3  | 3  | NA | 2  | 3  | 4  | NA |    |
| CP2585VT2P/R1B* | 85 | M | H | M | 2125 | 1120 | M   | M   | M   | RED | SF | 16-18 | 2 | 2 | 3 | 3 | 2 | 3  | 3 | 3  | 3  | 3  | NA | 3  | 3  | NA | NA |    |
| CP2520RR        | 86 | M | M | M | 2125 | 1120 | M   | M-T | M   | RED | SF | 16-20 | 3 | 3 | 1 | 3 | 2 | 1  | 3 | 3  | 3  | NA | 3  | 4  | NA | NA | NA |    |
| CP2692D         | 86 | M | M | M | 2160 | 1140 | M   | M-T | M   | RED | SF | 16-18 | 2 | 1 | 1 | 1 | 3 | NA | 3 | NA | 1  | NA | 1  | 1  | NA | NA | NA |    |
| CP2790VT2P/R1B* | 87 | L | H | H | 2175 | 1130 | E   | M   | M   | RED | SF | 16-18 | 1 | 3 | 2 | 3 | 2 | 1  | 2 | 3  | 2  | 2  | NA | 4  | 3  | NA | 2  |    |
| CP2851VT2P/R1B* | 88 | M | M | M | 2200 | 1160 | M   | M   | M   | RED | SD | 16-18 | 3 | 2 | 2 | 3 | 2 | 3  | 2 | 3  | 3  | 3  | 3  | NA | 3  | 3  | NA |    |
| CP2845SS/R1B*   | 89 | H | H | H | 2210 | 1150 | E   | M-T | M   | RED | SF | 16-18 | 1 | 2 | 1 | 3 | 1 | 1  | 3 | NA | 3  | NA | 3  | 4  | 4  | NA | NA |    |
| CP2965VT2P/R1B* | 89 | M | H | H | 2235 | 1180 | M-L | M   | M   | RED | SF | 14-16 | 1 | 1 | 2 | 3 | 2 | 2  | 2 | 3  | 3  | 1  | NA | 3  | 2  | NA | NA |    |
| CP3166VT2P/R1B* | 91 | H | M | M | 2285 | 1180 | E   | M   | M   | RED | SF | 16-18 | 2 | 3 | 3 | 3 | 2 | 2  | 3 | 3  | 3  | 3  | NA | 3  | 2  | NA | NA |    |
| CP3314VT2P/R1B* | 93 | M | L | M | 2330 | 1210 | M   | M   | M   | RED | FL | 16-18 | 2 | 2 | 2 | 2 | 2 | 2  | 2 | 3  | 3  | NA | 3  | 4  | NA | NA | NA |    |
| CP3337VT2P/R1B* | 93 | M | M | M | 2310 | 1190 | E   | M   | M   | RED | FL | 16-18 | 2 | 3 | 1 | 3 | 2 | 1  | 2 | 4  | 2  | 4  | 2  | 5  | 3  | NA | NA |    |
| CP3399SS/R1B*   | 94 | M | H | M | 2350 | 1220 | M   | M   | M   | RED | SF | 16-18 | 2 | 2 | 2 | 2 | 2 | 2  | 2 | 3  | 3  | NA | 3  | 4  | 3  | NA | NA |    |
| CP3490VT2P/R1B* | 94 | M | M | H | 2360 | 1230 | M-L | M-T | M-H | RED | SF | 18-20 | 1 | 3 | 3 | 3 | 3 | 2  | 3 | 3  | 3  | NA | NA | 3  | 3  | 3  | NA |    |
| CP3575VT2P/R1B* | 95 | H | H | M | 2360 | 1240 | M-L | M   | M   | RED | SF | 16-18 | 2 | 2 | 2 | 2 | 2 | 3  | 1 | 3  | 2  | NA | NA | 4  | 1  | NA | NA |    |
| CP3699RR        | 96 | M | M | M | 2400 | 1240 | M   | M-T | M-H | RED | SF | 16-18 | 1 | 1 | 1 | 3 | 3 | 2  | 2 | 3  | 3  | NA | 3  | 3  | 3  | 3  | NA | NA |

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**1 RTP/RTM/RTF Ratings**  
 L = Low Response  
 M = Moderate Response  
 H = High Response  
 TBD = To be tested in 2023

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

**3 Ear Height**  
 H = High  
 M = Medium  
 L = Low

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

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

**6 Flower Date**  
 L = Late  
 M = Medium  
 E = Early

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

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

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



# CORN

# CROPLAN

| Response to Nitrogen (RTN) | Response to Fungicide (RFT) | Response to GDU to Mid-Pollination** | Response to GDU to Maturity** | Flower Date | Plant Height | Ear Height | Cob Color | Ear Flex | Kernel Rows | Seeding Vigor | Stalk Quality | Root Strength | Stay Green | Dry Down | Drought Tolerance | Test Weight | Gray Leaf Spot | NC1B | SC1B | Common Rust | Anthracnose | Goss's Wilt | Physoderma Node Breakage | Diplodia Ear Rot |
|----------------------------|-----------------------------|--------------------------------------|-------------------------------|-------------|--------------|------------|-----------|----------|-------------|---------------|---------------|---------------|------------|----------|-------------------|-------------|----------------|------|------|-------------|-------------|-------------|--------------------------|------------------|
|----------------------------|-----------------------------|--------------------------------------|-------------------------------|-------------|--------------|------------|-----------|----------|-------------|---------------|---------------|---------------|------------|----------|-------------------|-------------|----------------|------|------|-------------|-------------|-------------|--------------------------|------------------|

## BRAND

### RM: 97-108

|            |                   |     |   |   |      |      |     |     |     |      |    |       |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
|------------|-------------------|-----|---|---|------|------|-----|-----|-----|------|----|-------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
| <b>NEW</b> | CP3171SSSPRO/RIB* | 97  | M | M | 2425 | 1242 | M-E | M-T | M-H | RED  | SF | 18-20 | 2 | 2 | 2 | 2 | 2 | 3 | 4 | 2 | 2  | 2  | 2  | 2  | 2  | 4  |
| <b>NEW</b> | CP3124VT2P/RIB*   | 97  | M | H | 2435 | 1250 | M   | M-T | M   | RED  | SF | 16-18 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 3  | NA | NA | 2  | 2  | NA |
|            | CP3135SS/RIB*     | 97  | M | H | 2425 | 1250 | M   | M   | M   | RED  | SD | 16-18 | 1 | 2 | 2 | 2 | 3 | 1 | 3 | 3 | NA | NA | 3  | 3  | 3  | NA |
| <b>NEW</b> | CP3852TREF/RIB*   | 98  | M | M | 2450 | 1275 | L   | M-T | M-H | RED  | FL | 16-18 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | NA | NA | 2  | NA | NA | NA |
| <b>NEW</b> | CP3899VT2P/RIB*   | 98  | H | H | 2450 | 1280 | L   | M-T | M-H | PINK | SF | 16-20 | 1 | 2 | 2 | 2 | 3 | 2 | 2 | 4 | 4  | NA | 3  | 3  | 3  | NA |
|            | CP3980VT2P/RIB*   | 99  | M | M | 2475 | 1270 | M   | M-T | M-H | RED  | SF | 14-16 | 2 | 3 | 1 | 3 | 2 | 3 | 3 | 2 | NA | NA | NA | 3  | 3  | 4  |
|            | CP4079VT2P/RIB*   | 100 | M | M | 2480 | 1280 | M   | M-T | M   | RED  | SF | 14-16 | 2 | 3 | 1 | 3 | 2 | 2 | 3 | 3 | 3  | 2  | NA | 2  | 3  | NA |
|            | CP4099SS/RIB*     | 100 | H | H | 2500 | 1290 | L   | M-T | M   | PINK | SF | 16-20 | 1 | 2 | 1 | 3 | 3 | 2 | 3 | 4 | 4  | NA | 3  | 3  | 3  | NA |
|            | CP4188SS/RIB*     | 101 | M | M | 2490 | 1280 | M   | M   | M   | RED  | SF | 16-18 | 1 | 1 | 1 | 1 | 3 | 2 | 1 | 3 | 2  | NA | NA | 2  | 3  | NA |
|            | CP4265VT2P/RIB*   | 102 | M | L | 2550 | 1300 | M-L | M   | M   | RED  | SD | 16-18 | 1 | 2 | 1 | 3 | 1 | 3 | 3 | 3 | 3  | 2  | NA | 2  | 3  | 5  |
|            | CP4822VT2P/RIB*   | 103 | M | L | 2575 | 1310 | L   | M   | M-H | RED  | SF | 16-18 | 2 | 3 | 1 | 3 | 2 | 2 | 3 | 3 | 3  | 2  | NA | 3  | 3  | NA |
| <b>NEW</b> | CP4444VT2P/RIB*   | 104 | H | L | 2580 | 1300 | M   | T   | M-H | RED  | SF | 14-16 | 1 | 2 | 2 | 3 | 2 | 3 | 3 | 3 | 3  | 3  | 2  | NA | 3  | 3  |
| <b>NEW</b> | CP4516TREF/RIB*   | 105 | M | M | 2650 | 1309 | M-E | M   | M   | RED  | SF | 16-18 | 2 | 3 | 2 | 2 | 3 | 2 | 3 | 3 | 3  | 2  | 2  | 2  | 2  | 3  |
| <b>NEW</b> | CP4652SSPRO/RIB*  | 106 | L | H | 2625 | 1311 | M   | M-T | H   | RED  | SF | 14-16 | 2 | 2 | 2 | 2 | 3 | 2 | 3 | 4 | 3  | 2  | 2  | 2  | 2  | 3  |
|            | CP4676SS/RIB*     | 106 | M | H | 2650 | 1310 | M   | M   | M   | PINK | SF | 16-18 | 1 | 3 | 3 | 2 | 1 | 3 | 1 | 3 | 2  | 2  | NA | 3  | 1  | NA |
|            | CP4751VT2P/RIB*   | 107 | 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  | NA |
|            | CP4808SS/RIB*     | 108 | H | M | 2700 | 1330 | M   | M-S | M   | RED  | SD | 14-16 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3  | 2  | NA | 3  | 3  | NA |

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

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**3 Ear Height**  
 H = High  
 M = Medium  
 L = Low

**5 Flower Date**  
 L = Late  
 M = Medium  
 E = Early

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







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

## WHY WINPAK® SOYBEAN VARIETIES?

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



## EXAMPLE OF HOW A WINPAK VARIETY CAN BE FORMULATED

|                         | VARIETY A SAMPLE  | VARIETY B SAMPLE   |
|-------------------------|---|--|
| <b>PLACEMENT</b>        | Average to below-average yield environments.  | Best-suited to productive acres.   |
| <b>DISEASE PACKAGE</b>  | Strong soybean white mold and iron deficiency chlorosis (IDC) tolerance.  | Excellent phytophthora root rot and frogeye field tolerance.   |
| <b>AGRONOMICS</b>       | <ul style="list-style-type: none"> <li>▪ Narrow canopy type</li> <li>▪ Tall height</li> <li>▪ Excellent standability</li> </ul> | <ul style="list-style-type: none"> <li>▪ Bushy canopy type</li> <li>▪ Medium height</li> <li>▪ Average standability</li> </ul> |
| <b>STRESS TOLERANCE</b> | 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 |
|-------------------------------|------------|--------------|---------------|---------|
| <b>XTENDFLEX®</b>             | X          | X            |               | X       |
| <b>ROUNDUP READY 2 XTEND®</b> | X          |              |               | X       |
| <b>ENLIST E3®</b>             | X          | X            | X             |         |








# 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  |
|-----------|------------------------|--|---|
| <b>XF</b> | XtendFlex®             | Roundup®, dicamba and glufosinate tolerant         |  |
| <b>X</b>  | Roundup Ready 2 Xtend® | Roundup® and dicamba tolerant                      |  |
| <b>E</b>  | Enlist E3®             | Glyphosate, glufosinate and 2,4-D choline tolerant |  |
| <b>S</b>  | STS®                   | Sulfonylurea tolerant                              | N/A   |



# SEED TREATMENTS

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

## Warden® CX II

By WINFIELD UNITED

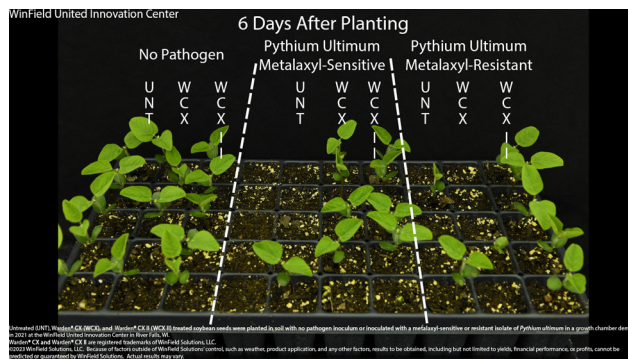
### SUPERIOR DISEASE & INSECT PROTECTION FOR SOYBEANS

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

### FEATURES AND BENEFITS

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

### IMPROVES *PYTHIUM* DEFENSE RESULTING IN IMPROVED PLANT STAND



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

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

[winfieldunited.com](http://winfieldunited.com)

CROPLAN

**CROPLAN CP00312X**

Group: 0.03



**Characteristics**

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

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

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

**CROPLAN CP00729E**

Group: 0.07



**Characteristics**

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

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

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

**CROPLAN CP00842XF**

Group: 0.08



**Characteristics**

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

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

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

**NEW**

**CROPLAN CP00840XF**

Group: 0.08



**Characteristics**

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

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

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

**NEW**

**CROPLAN CP00824E**

Group: 0.08



**Characteristics**

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

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

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

**CROPLAN CP00926X**

Group: 0.09



**Characteristics**

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

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

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

**KEY**

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

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**NEW****CROPLAN CP00944XF**

Group: 0.09

**Characteristics**

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

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

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

**NEW****CROPLAN CP0124E**

Group: 0.1

**Characteristics**

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

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

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

**CROPLAN CP0242XF**

Group: 0.2

**Characteristics**

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

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

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

**NEW****CROPLAN CP0244XF**

Group: 0.2

**Characteristics**

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

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

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

**UPGRADED****CROPLAN CP0320E**

Group: 0.3

**Characteristics**

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

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

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

**CROPLAN CP0329E**

Group: 0.3

**Characteristics**

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

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

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

**KEY****Scale**

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

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

**NEW****CROPLAN CP0440XF**

Group: 0.4

**Characteristics**

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

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

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

**NEW****CROPLAN CP0542XF**

Group: 0.5

**Characteristics**

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

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

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

**CROPLAN CP0530E**

Group: 0.5

**Characteristics**

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

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

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

**UPGRADED****CROPLAN CP0751XF**

Group: 0.7

**Characteristics**

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

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

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

**UPGRADED****CROPLAN CP0740XF**

Group: 0.7

**Characteristics**

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

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

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

**UPGRADED****CROPLAN CP0820E**

Group: 0.8

**Characteristics**

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

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

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

**KEY****Scale**

1 = Excellent

2 = Strong

3 = Acceptable

4 = Manage

5 = Not Recommended

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UPGRADED

### CROPLAN CP0940XF

Group: 0.9



#### Characteristics

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

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

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

NEW

### CROPLAN CP1121E

Group: 1.1



#### Characteristics

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

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

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

### CROPLAN CP1123E

Group: 1.1



#### Characteristics

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

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

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

NEW

### CROPLAN CP1130E

Group: 1.1



#### Characteristics

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

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

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

UPGRADED

### CROPLAN CP1240XF

Group: 1.2



#### Characteristics

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

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

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

### CROPLAN CP1430E

Group: 1.4



#### Characteristics

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

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

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

#### KEY

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

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**UPGRADED****CROPLAN CP1443XF**

Group: 1.4

**Characteristics**

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

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

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

**CROPLAN CP1522E**

Group: 1.5

**Characteristics**

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

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

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

**CROPLAN CP1540XF**

Group: 1.5

**Characteristics**

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

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

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

**NEW****CROPLAN CP1620E**

Group: 1.6

**Characteristics**

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

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

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

**CROPLAN CP1623E**

Group: 1.6

**Characteristics**

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

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

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

**CROPLAN CP1721E**

Group: 1.7

**Characteristics**

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

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

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

**KEY****Scale**

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

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



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

**UPGRADED****CROPLAN CP1720E**

Group: 1.7

**Characteristics**

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

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

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

**CROPLAN CP1742XF**

Group: 1.7

**Characteristics**

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

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

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

**CROPLAN CP1840XF**

Group: 1.8

**Characteristics**

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

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

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

**CROPLAN CP1923E**

Group: 1.9

**Characteristics**

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

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

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

**NEW****CROPLAN CP1930E**

Group: 1.9

**Characteristics**

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

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

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

**NEW****CROPLAN CP2054XF**

Group: 2

**Characteristics**

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

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

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

**KEY****Scale**

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

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

**CROPLAN CP2030E**

Group: 2



**Characteristics**

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

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

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

**CROPLAN CP2122E**

Group: 2.1



**Characteristics**

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

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

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

**CROPLAN CP2220E**

Group: 2.2



**Characteristics**

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

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

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

**CROPLAN CP2322E**

Group: 2.3



**Characteristics**

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

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

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

**NEW**

**CROPLAN CP2340XF**

Group: 2.3



**Characteristics**

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

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

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

**CROPLAN CP2540XF**

Group: 2.5



**Characteristics**

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

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

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

**KEY**

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

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

UPGRADED

**CROPLAN CP2520E**

Group: 2.5



**Characteristics**

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

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

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

**CROPLAN CP2743XF**

Group: 2.7



**Characteristics**

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

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

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

UPGRADED

**CROPLAN CP2840XF**

Group: 2.8



**Characteristics**

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

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

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

**CROPLAN CP2822E**

Group: 2.8



**Characteristics**

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

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

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

UPGRADED

**CROPLAN CP2920E**

Group: 2.9



**Characteristics**

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

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

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

**CROPLAN CP3057XS**

Group: 3



**Characteristics**

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

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

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

**KEY**

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

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

**UPGRADED****CROPLAN CP3120E**

Group: 3.1

**Characteristics**

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

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

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

**NEW****CROPLAN CP3240XF**

Group: 3.2

**Characteristics**

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

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

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

**CROPLAN CP3320E**

Group: 3.3

**Characteristics**

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

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

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

**CROPLAN CP3321E**

Group: 3.3

**Characteristics**

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

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

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

**CROPLAN CP3422E**

Group: 3.4

**Characteristics**

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

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

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

**NEW****CROPLAN CP3550XF**

Group: 3.5

**Characteristics**

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

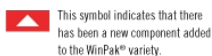
| Height        | M | Canopy Type  | Int/Bush |
|---------------|---|--------------|----------|
| Emergence     | 2 | Standability | 2        |
| BSR Tolerance | 2 |              |          |

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

**KEY****Scale**

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

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**UPGRADED****CROPLAN CP3620E**

Group: 3.6

**Characteristics**

|                | Not Recommended |   | Excellent |   |
|----------------|-----------------|---|-----------|---|
| PRR Tolerance  | ■               | ■ | ■         | ■ |
| SDS Tolerance  | ■               | ■ | ■         | ■ |
| SWM Tolerance  | N/A             |   |           |   |
| BSR Tolerance  | ■               | ■ | ■         | ■ |
| Iron Chlorosis | ■               | ■ | ■         | ■ |

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

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

**NEW****CROPLAN CP3724ES**

Group: 3.7

**Characteristics**

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

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

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

**CROPLAN CP3822ES**

Group: 3.7

**Characteristics**

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

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

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

**CROPLAN CP3753XF**

Group: 3.7

**Characteristics**

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

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

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

**UPGRADED****CROPLAN CP3920E**

Group: 3.9

**Characteristics**

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

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

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

**CROPLAN CP3922E**

Group: 3.9

**Characteristics**

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

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

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

**KEY****Scale**

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



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**NEW****CROPLAN CP3940XF**

Group: 3.9

**Characteristics**

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

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

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

**CROPLAN CP3842XF**

Group: 4

**Characteristics**

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

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

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

**CROPLAN CP4144XF**

Group: 4.1

**Characteristics**

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

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

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

**CROPLAN CP4122E**

Group: 4.1

**Characteristics**

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

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

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

**CROPLAN CP4324ES**

Group: 4.3

**Characteristics**

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

| Height        | MT | Canopy Type  | Int/Bush |
|---------------|----|--------------|----------|
| Emergence     | 1  | Standability | 2        |
| BSR Tolerance | 5  |              |          |

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

**CROPLAN CP4521E**

Group: 4.5

**Characteristics**

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

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

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

**KEY****Scale**

1 = Excellent

2 = Strong

3 = Acceptable

4 = Manage

5 = Not Recommended

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

**NEW****CROPLAN CP4624ES**

Group: 4.6

**Characteristics**

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

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

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

**CROPLAN CP4541XFS**

Group: 4.6

**Characteristics**

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

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

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

**CROPLAN CP4843XFS**

Group: 4.8

**Characteristics**

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

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

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

**NEW****CROPLAN CP4944XFS**

Group: 4.9

**Characteristics**

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

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

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

**CROPLAN CP4822ES**

Group: 4.9

**Characteristics**

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

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

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

**KEY****Scale**

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



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# SOYBEAN

## CROPLAN

WinPaK® Variety Components

SCN Resistant Source  
Determinate/intermediate  
Relative Maturity

PRR Gene 2

PRR Tolerance  
SWS Tolerance  
Chloride Tolerance

SWM Tolerance  
BSR Tolerance  
Iron Chlorosis

Root-Knot Nematode  
Fogeye Leaf Spot

Emergence  
Stability  
Stress Tolerance

Canopy Type 1  
Plant Height 5

Flower Color 6  
Pubescence Type 7

Pod Color 8  
Hilum Color 9

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

| CP000312X              | 0.03 | IND | NG          | Rps1c       | 1 | NA   | Includer | 2  | 2 | NA | 2    | 1    | NA   | NA | 2 | 2    | 1   | NA   | Int   | M   | P  | LTW                          | BR             | IY |
|------------------------|------|-----|-------------|-------------|---|------|----------|----|---|----|------|------|------|----|---|------|-----|--|---|---|--|------------------------------|----------------|----|
| <b>NEW</b> CP000744XF* | 0.07 | IND | NG          | Rps1c       | 1 | NA   | Includer | 2  | 2 | 4  | NA   | 2    | NA   | 2  | 2 | 2    | 2   | NA   | Int   | M <td>P <td>LTW <td>BR <td>GR</td> </td></td></td>  | P <td>LTW <td>BR <td>GR</td> </td></td>  | LTW <td>BR <td>GR</td> </td> | BR <td>GR</td> | GR |
| <b>NEW</b> CP000840XF  | 0.08 | IND | PI88,788/NG | Rps1c       | 2 | NA   | Includer | 3  | 2 | 3  | NA   | 2/NA | NA   | 2  | 2 | 2    | NA  | Int  | MT <td>P <td>LTW <td>BR <td>BL/GL</td> </td></td></td>          | P <td>LTW <td>BR <td>BL/GL</td> </td></td>          | LTW <td>BR <td>BL/GL</td> </td>          | BR <td>BL/GL</td>            | BL/GL          |    |
| CP000842XF             | 0.08 | IND | PI88,788    | Rps1c       | 2 | NA   | Includer | NA | 2 | 2  | NA   | NA   | NA   | 2  | 2 | NA   | Int | M <td>M <td>P <td>LTW <td>BR <td>TN <td>BL</td> </td></td></td></td></td>      | M <td>P <td>LTW <td>BR <td>TN <td>BL</td> </td></td></td></td>  | P <td>LTW <td>BR <td>TN <td>BL</td> </td></td></td> | LTW <td>BR <td>TN <td>BL</td> </td></td> | BR <td>TN <td>BL</td> </td>  | TN <td>BL</td> | BL |
| CP000926X              | 0.09 | IND | NG          | Rps1k       | 3 | NA   | Includer | 3  | 2 | 3  | NA   | NA   | NA   | 1  | 3 | 3    | Int | M <td>M <td>P <td>TW <td>BR <td>BL</td> </td></td></td></td>                   | M <td>P <td>TW <td>BR <td>BL</td> </td></td></td>               | P <td>TW <td>BR <td>BL</td> </td></td>              | TW <td>BR <td>BL</td> </td>              | BR <td>BL</td>               | BL             |    |
| <b>NEW</b> CP000944XF  | 0.09 | IND | PI88,788    | Rps1c       | 2 | NA   | Includer | 4  | 2 | 2  | NA   | NA   | NA   | 1  | 2 | NA   | Int | MT <td>P <td>LTW <td>TW <td>BR <td>BL</td> </td></td></td></td>                | P <td>LTW <td>TW <td>BR <td>BL</td> </td></td></td>             | LTW <td>TW <td>BR <td>BL</td> </td></td>            | TW <td>BR <td>BL</td> </td>              | BR <td>BL</td>               | BL             |    |
| CP00242XF              | 0.2  | IND | NG          | Rps1c       | 4 | NA   | NA       | 2  | 1 | 2  | NA   | NA   | NA   | 1  | 4 | NA   | Int | /Bush <td>MT <td>P <td>TW <td>BR <td>BL</td> </td></td></td></td>              | MT <td>P <td>TW <td>BR <td>BL</td> </td></td></td>              | P <td>TW <td>BR <td>BL</td> </td></td>              | TW <td>BR <td>BL</td> </td>              | BR <td>BL</td>               | BL             |    |
| <b>NEW</b> CP00244XF   | 0.2  | IND | PI88,788    | Rps1c       | 3 | NA   | Includer | 2  | 2 | 2  | NA   | NA   | NA   | 1  | 1 | NA   | Int | /Bush <td>MT <td>P <td>LTW <td>BR <td>BL</td> </td></td></td></td>             | MT <td>P <td>LTW <td>BR <td>BL</td> </td></td></td>             | P <td>LTW <td>BR <td>BL</td> </td></td>             | LTW <td>BR <td>BL</td> </td>             | BR <td>BL</td>               | BL             |    |
| <b>NEW</b> CP00440XF   | 0.4  | IND | PI88,788    | Rps1c       | 2 | 3/NA | Includer | 3  | 3 | 3  | 1/NA | NA   | NA   | 2  | 2 | NA   | Int | /Bush <td>MT <td>P <td>GR/LTW <td>BR/TN <td>IB/IY</td> </td></td></td></td>    | MT <td>P <td>GR/LTW <td>BR/TN <td>IB/IY</td> </td></td></td>    | P <td>GR/LTW <td>BR/TN <td>IB/IY</td> </td></td>    | GR/LTW <td>BR/TN <td>IB/IY</td> </td>    | BR/TN <td>IB/IY</td>         | IB/IY          |    |
| <b>NEW</b> CP00444XF*  | 0.4  | IND | PI88,788    | Rps1c       | 2 | NA   | Includer | 3  | 1 | 1  | NA   | NA   | NA   | 1  | 1 | NA   | Int | /Bush <td>MT <td>P <td>GR <td>BR <td>IB</td> </td></td></td></td>              | MT <td>P <td>GR <td>BR <td>IB</td> </td></td></td>              | P <td>GR <td>BR <td>IB</td> </td></td>              | GR <td>BR <td>IB</td> </td>              | BR <td>IB</td>               | IB             |    |
| <b>NEW</b> CP00542XF   | 0.5  | IND | PI88,788    | Rps1c       | 2 | 3    | Includer | 3  | 4 | 4  | 1    | NA   | NA   | 2  | 2 | NA   | Int | /Bush <td>MT <td>P <td>LTW <td>TN <td>IY</td> </td></td></td></td>             | MT <td>P <td>LTW <td>TN <td>IY</td> </td></td></td>             | P <td>LTW <td>TN <td>IY</td> </td></td>             | LTW <td>TN <td>IY</td> </td>             | TN <td>IY</td>               | IY             |    |
| <b>NEW</b> CP07440XF   | 0.7  | IND | PI88,788    | Rps1k/1c,3A | 2 | NA   | Includer | 3  | 1 | 2  | 1/NA | NA   | 5/NA | 1  | 3 | 1/NA | Int | M <td>P <td>GR/TW <td>BR <td>BL/IB</td> <td>IB</td> </td></td></td>            | P <td>GR/TW <td>BR <td>BL/IB</td> <td>IB</td> </td></td>        | GR/TW <td>BR <td>BL/IB</td> <td>IB</td> </td>       | BR <td>BL/IB</td> <td>IB</td>            | BL/IB                        | IB             |    |
| <b>NEW</b> CP07444XF*  | 0.7  | IND | PI88,788    | Rps1k       | 2 | 2    | Includer | 2  | 1 | 2  | 1    | NA   | 5    | 1  | 2 | 1    | Int | M <td>M <td>P <td>GR <td>BR <td>IB</td> </td></td></td></td>                   | M <td>P <td>GR <td>BR <td>IB</td> </td></td></td>               | P <td>GR <td>BR <td>IB</td> </td></td>              | GR <td>BR <td>IB</td> </td>              | BR <td>IB</td>               | IB             |    |
| CP0751XF               | 0.7  | IND | PI88,788    | Rps1c,3a    | 2 | NA   | Includer | 3  | 1 | 2  | NA   | NA   | NA   | 1  | 3 | NA   | Int | MT <td>P <td>TW <td>BR <td>BL</td> <td>BL</td> </td></td></td>                 | P <td>TW <td>BR <td>BL</td> <td>BL</td> </td></td>              | TW <td>BR <td>BL</td> <td>BL</td> </td>             | BR <td>BL</td> <td>BL</td>               | BL                           | BL             |    |
| <b>NEW</b> CP09440XF   | 0.9  | IND | PI88,788    | HRps1c/3a   | 2 | 1/NA | Includer | 2  | 3 | 2  | 1/NA | NA   | NA   | 2  | 3 | 2/NA | Int | /Bush <td>MT <td>P <td>LTW <td>TN <td>BR/Y</td> </td></td></td></td>           | MT <td>P <td>LTW <td>TN <td>BR/Y</td> </td></td></td>           | P <td>LTW <td>TN <td>BR/Y</td> </td></td>           | LTW <td>TN <td>BR/Y</td> </td>           | TN <td>BR/Y</td>             | BR/Y           |    |
| <b>NEW</b> CP0954XF*   | 0.9  | IND | PI88,788    | Rps1c       | 2 | 1    | Includer | 2  | 3 | 2  | 1    | NA   | NA   | 2  | 3 | NA   | Int | MT <td>P <td>LTW <td>TW <td>TN <td>Y</td> </td></td></td></td>                 | P <td>LTW <td>TW <td>TN <td>Y</td> </td></td></td>              | LTW <td>TW <td>TN <td>Y</td> </td></td>             | TW <td>TN <td>Y</td> </td>               | TN <td>Y</td>                | Y              |    |
| CP1042XF*              | 1    | IND | PI88,788    | HRps3a      | 2 | NA   | Includer | 2  | 3 | 2  | NA   | NA   | NA   | 1  | 2 | 2    | Int | /Bush <td>MT <td>P <td>LTW <td>TN <td>BR</td> <td>BR</td> </td></td></td></td> | MT <td>P <td>LTW <td>TN <td>BR</td> <td>BR</td> </td></td></td> | P <td>LTW <td>TN <td>BR</td> <td>BR</td> </td></td> | LTW <td>TN <td>BR</td> <td>BR</td> </td> | TN <td>BR</td> <td>BR</td>   | BR             | BR |
| CP1240XF               | 1.2  | IND | PI88,788    | Rps1c,H3a   | 2 | 3    | Includer | 2  | 1 | 2  | 1/NA | NA   | 5/NA | 1  | 1 | 2    | Int | MT <td>P <td>GR/LTW <td>BR/TN <td>BL/BF</td> <td>BL</td> </td></td></td>       | P <td>GR/LTW <td>BR/TN <td>BL/BF</td> <td>BL</td> </td></td>    | GR/LTW <td>BR/TN <td>BL/BF</td> <td>BL</td> </td>   | BR/TN <td>BL/BF</td> <td>BL</td>         | BL/BF                        | BL             |    |
| CP1242XF*              | 1.2  | IND | PI88,788    | HRps3a      | 2 | 3    | Includer | 2  | 1 | 2  | NA   | NA   | NA   | 1  | 1 | 2    | Int | MT <td>P <td>LTW <td>P <td>BR <td>BL</td> <td>BL</td> </td></td></td></td>     | P <td>LTW <td>P <td>BR <td>BL</td> <td>BL</td> </td></td></td>  | LTW <td>P <td>BR <td>BL</td> <td>BL</td> </td></td> | P <td>BR <td>BL</td> <td>BL</td> </td>   | BR <td>BL</td> <td>BL</td>   | BL             | BL |
| <b>NEW</b> CP1244XF*   | 1.2  | IND | PI88,788    | Rps1c       | 2 | 2    | Includer | 1  | 1 | 2  | 1    | NA   | 5    | 1  | 1 | 2    | Int | M <td>P <td>GR <td>TN <td>BR <td>BF</td> </td></td></td></td>                  | P <td>GR <td>TN <td>BR <td>BF</td> </td></td></td>              | GR <td>TN <td>BR <td>BF</td> </td></td>             | TN <td>BR <td>BF</td> </td>              | BR <td>BF</td>               | BF             |    |

### KEY

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

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

#### 1 SCN Resistant Source

**Peking** = These varieties contain SCN resistance genes from the Peking soybean breeding lines  
**PI88,788** = These varieties contain SCN resistance genes from the PI88,788 soybean breeding lines

#### 2 PRR Gene

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

#### 3 Southern Stem Canker and Root-Knot Nematode

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

#### 4 Canopy Type

**Nar** = Narrow  
**Int** = Intermediate  
**Bush** = Bushy

#### 5 Plant Height

**T** = Tall  
**M** = Medium  
**S** = Short

#### 6 Flower Color

**P** = Purple  
**W** = White

#### 7 Pubescence Type

**GR** = Gray  
**TW** = Tan  
**LTW** = Light Tan

#### 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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# SOYBEAN

CROPLAN

WinPaK® Variety Components

SCN Resistant Source  
Relative Maturity

PRR Gene

SDS Tolerance  
Chloride Tolerance

SWM Tolerance  
BSR Tolerance

Southern Stem Canker  
Iron Chlorosis

Root-Knot Nematode  
Frogeye Leaf Spot

Emergence  
Standability

Canopy Type

Plant Height

Flower Color

Pod Color

Hilum Color

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

| CP1443XF* | CP1540XF    | CP1544XF* | CP1742XF | CP1840XF | CP1844XF* | CP2054XF | CP2244XF* | CP2340XF | CP2344XF* | CP2540XF    | CP2652XF* | CP2743XF | CP2844XF* | CP3057XS |
|-----------|-------------|-----------|----------|----------|-----------|----------|-----------|----------|-----------|-------------|-----------|----------|-----------|----------|
| 1.4       | 1.5         | 1.5       | 1.7      | 1.8      | 1.8       | 2        | 2.2       | 2.3      | 2.3       | 2.5         | 2.5       | 2.7      | 2.8       | 2.8      |
| IND       | IND         | IND       | IND      | IND      | IND       | IND      | IND       | IND      | IND       | IND         | IND       | IND      | IND       | IND      |
| P188,788  | P188,788    | P188,788  | P188,788 | P188,788 | P188,788  | P188,788 | P188,788  | P188,788 | P188,788  | P188,788    | P188,788  | P188,788 | P188,788  | P188,788 |
| Rps1c.3a  | Rps1c.3a/lc | Rps1c     | Rps1c    | Rps1c/NG | NG        | NG       | Rps1c     | Rps1c    | Rps1c     | Rps1c/NG    | Rps1c     | NG       | NG        | HRps1c   |
| 2         | 2           | 2         | 2        | 2        | 2         | 2        | 3         | 3        | 3         | 2           | 2         | 2        | 2         | 2        |
| Includer  | Includer    | Includer  | Includer | Includer | Includer  | Includer | Includer  | Includer | Includer  | Includer/NA | Includer  | Includer | Includer  | Includer |
| 1         | 2           | 2         | 2        | 2        | 2         | 2        | 2         | 2        | 2         | 2/NA        | 2         | 5        | 4         | NA       |
| 2         | 2           | 2         | 1        | 1        | 1         | 1        | 4         | 4        | 4         | 1           | 1         | 1/NA     | 3         | 1        |
| 3         | 3           | 1         | 2        | 2        | 2         | 2        | 1         | 1        | 1         | 1/NA        | 1         | 1/NA     | 3         | NA       |
| NA        | NA          | 3/NA      | NA       | 5/NA     | NA        | 5        | NA        | 4/NA     | NA        | 5/NA        | 5         | NA       | NA        | NA       |
| 2         | 2           | 2         | 2        | 2        | 2         | 1        | 2         | 2        | 2         | 2           | 2         | 2        | 1         | 2        |
| 2         | 2           | 2         | 2        | 2        | 2         | 1        | 2         | 2        | 2         | 2           | 2         | 2        | 3         | 3        |
| NA        | NA          | NA        | NA       | 5/NA     | NA        | 5        | NA        | NA       | NA        | NA          | NA        | NA       | NA        | NA       |
| 2         | 2           | 2         | 1        | 2        | 2         | 2        | 2         | 2        | 2         | 2           | 2         | 2        | 2         | 2        |
| 2         | 2           | 2         | 1        | 2/NA     | 2         | 2        | 2         | 2/NA     | 2         | 2           | 2         | 2        | 3         | 1        |
| int       | int         | int       | int/Nar  | int      | int       | int      | int       | int/Bush | int       | int/Bush    | int/Bush  | int      | int/Bush  | int      |
| MT        | MT          | MT        | T        | MT       | MT        | M        | MT        | MT       | MT        | MT          | MT        | T        | MT        | M        |
| P         | P           | P         | P        | P        | P         | P        | P         | P        | P         | P           | P         | P        | P         | P        |
| LTW       | LTW         | LTW       | LTW      | LTW      | LTW       | LTW      | LTW       | GR/LTW   | GR        | GR          | GR        | BR       | GR        | BR       |
| BR        | BR          | BR        | BR       | BR/TN    | BR        | TN       | BR        | BR       | BR        | BR/TN       | BR        | BR       | BR        | BR       |

### KEY

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Peking = These varieties contain SCN resistance genes from the Peking soybean breeding lines  
P188,788 = These varieties contain SCN resistance genes from the P188,788 soybean breeding lines

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

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

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

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

**6 Flower Color**  
P = Purple  
W = White

**7 Pubescence Type**  
GR = Gray  
TW = Tan  
LTW = Light Tan

**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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# SOYBEAN

## CROPLAN

WinPaK® Variety Components

SCN Resistant Source  
Relative Maturity

PRR Gene

Chloride Tolerance  
SDS Tolerance  
PRR Tolerance

SWM Tolerance  
BSR Tolerance  
Iron Chlorosis

Root-Knot Nematode  
Fogey Leaf Spot

Emergence  
Standability

Stress Tolerance  
Canopy Type

Plant Height  
Flower Color

Pubescence Type  
Pod Color

Hilum Color

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

| NEW | CP3144XF* | 3.1 | IND | P188,788 | NG       | 1 | 3 | Includer | 4    | 1    | 4    | 1    | 1 | 2    | 5 | 1 | 3    | 1        | 1        | Int/Nar | MT     | P   | LTW   | BR | BL |
|-----|-----------|-----|-----|----------|----------|---|---|----------|------|------|------|------|---|------|---|---|------|----------|----------|---------|--------|-----|-------|----|----|
| NEW | CP3240XF  | 3.2 | IND | P188,788 | NG/TBD   | 2 | 3 | Includer | 4/NA | 1/NA | 4/NA | 1/NA | 2 | 5/NA | 2 | 3 | 1/NA | Int/Bush | MT       | P       | LTW/TW | BR  | BL    |    |    |
| NEW | CP3344XF* | 3.3 | IND | P188,788 | TBD      | 3 | 3 | Includer | NA   | NA   | NA   | NA   | 2 | NA   | 2 | 3 | NA   | Int/Bush | MT       | P       | TW     | BR  | BL    |    |    |
| NEW | CP3444XF* | 3.4 | IND | P188,788 | Rps1c    | 3 | 2 | Includer | 3    | 2    | 3    | 1    | 1 | NA   | 2 | 2 | NA   | Int/Bush | M        | P       | LTW    | BR  | BL    |    |    |
| NEW | CP3544XF* | 3.5 | IND | P188,788 | Rps3a    | 3 | 3 | Excluder | 3    | 1    | 3    | 1    | 5 | 5    | 1 | 2 | NA   | Int/Bush | M        | P       | LTW    | BR  | BL    |    |    |
| NEW | CP3550XF  | 3.5 | IND | P188,788 | 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 | P188,788 | NG       | 3 | 2 | Includer | NA   | 1    | 3    | 1    | 1 | NA   | 1 | 2 | NA   | Int      | MT       | P       | LTW    | BR  | BL    |    |    |
|     | CP3842XF* | 4   | IND | P188,788 | NG       | 3 | 1 | Includer | NA   | NA   | 4    | 1    | 1 | 5    | 2 | 1 | NA   | Int/Bush | MT       | P       | LTW    | BR  | BL    |    |    |
|     | CP3940XF  | 3.9 | IND | P188,788 | Rps1c/NG | 3 | 1 | Includer | NA   | NA   | 3    | 1    | 2 | 5/NA | 2 | 2 | NA   | Int/Bush | MT       | P       | GR/LTW | BR  | BL/IB |    |    |
|     | CP3943XF* | 3.9 | IND | P188,788 | Rps1c    | 3 | 1 | Includer | NA   | NA   | 2    | 1    | 2 | NA   | 2 | 2 | NA   | Int/Bush | MT       | P       | GR     | BR  | IB    |    |    |
| NEW | CP4144XF  | 4.1 | IND | P188,788 | Rps1c    | 2 | 2 | Includer | NA   | NA   | NA   | NA   | 2 | NA   | 2 | 3 | NA   | Int/Bush | MT       | P       | TW     | BR  | BL    |    |    |
| NEW | CP4541XFS | 4.6 | IND | P188,788 | Rps1c    | 3 | 2 | Excluder | NA   | NA   | NA   | NA   | 1 | NA   | 5 | 1 | 3    | NA       | Int/Bush | T       | P      | LTW | BR    | BL |    |
|     | CP4843XFS | 4.8 | IND | P188,788 | Rps1a    | 3 | 1 | Includer | NA   | NA   | 5    | 1    | 1 | 5    | 1 | 3 | NA   | Int/Bush | MT       | P       | LTW    | BR  | BL    |    |    |
| NEW | CP4944XFS | 4.9 | IND | P188,788 | Rps1a/3a | 2 | 2 | Includer | NA   | NA   | 2    | 1    | 3 | 3    | 3 | 1 | 2    | NA       | Int/Bush | T       | W      | LTW | BR    | BL |    |

## KEY

**1 SCN Resistant Source**  
Peking = These varieties contain SCN resistance genes from the Peking soybean breeding lines  
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**2 PRR Gene**  
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3 = Moderately Resistant-Moderately Susceptible  
4 = Moderately Susceptible  
5 = Susceptible

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

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


**6 Flower Color**  
P = Purple  
W = White

**7 Pod Color**  
TN = Tan  
BR = Brown

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

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# SOYBEAN

## CROPLAN

### ENLIST E3® – RM: 0.0-1.6

| WinPa® Variety Components | SCN Resistant Source    | PRR Gene    | PRR Tolerance | SDS Tolerance | Chlorite Tolerance | SWM Tolerance | B3R Tolerance | Southern Stem Ganker Iron Chlorosis | Root-Knot Nematode | Troyale Leaf Spot | Emergence | Stress Tolerance | Standability | Canopy Type | Plant Height | Flower Color | Pod Color | Hilum Color |    |       |
|---------------------------|-------------------------|-------------|---------------|---------------|--------------------|---------------|---------------|-------------------------------------|--------------------|-------------------|-----------|------------------|--------------|-------------|--------------|--------------|-----------|-------------|----|-------|
| NEW CP00824E              | 0.08 IND P188,788       | Rps3a       | 1             | NA            | Includer           | 3             | 5             | 2                                   | 1                  | NA                | 5         | 1                | 2            | 1           | Bush         | MT           | P         | GR          | TN | BF    |
| NEW CP0124E               | 0.1 IND P188,788        | Rps3a       | 1             | NA            | Includer           | 2             | 1             | 2                                   | 1                  | NA                | 5         | 1                | 1            | 1           | Int          | MT           | P         | GR          | TN | IB    |
| CP0320E                   | 0.3 IND P188,788        | Rps3a/NG    | 2             | NA            | Includer           | 3             | 5             | 2                                   | 1                  | NA                | 5/NA      | 1                | 2            | 2           | Int          | MT           | PW        | GR          | TN | BF/IB |
| NEW CP0324E*              | 0.3 IND P188,788        | Rps3a       | 1             | NA            | Excluder           | 2             | 5             | 2                                   | 1                  | NA                | 5         | 1                | 1            | 1           | Int          | MT           | P         | GR          | TN | IB    |
| NEW CP0329E*              | 0.3 IND P188,788        | NG          | 3             | NA            | Includer           | 4             | 5             | 2                                   | 1                  | NA                | NA        | 1                | 2            | 2           | Int          | M            | W         | GR          | TN | BF    |
| NEW CP0524E*              | 0.5 IND P188,788        | Rps3a       | 1             | NA            | Includer           | 2             | 1             | 2                                   | 1                  | NA                | 5         | 1                | 2            | 2           | Int          | MT           | P         | GR          | TN | BF    |
| NEW CP0530E               | 0.5 IND P188,788        | Rps3a/1KH3a | 1             | 2/NA          | Includer           | 2             | 1             | 2                                   | 1                  | NA                | 5         | 1                | 2            | 2           | Int          | MT           | P         | GR          | TN | BF/IB |
| NEW CP0534E*              | 0.5 IND P188,788        | Rps1KH3a    | 1             | 2             | Includer           | 2             | 1             | 2                                   | 1                  | NA                | 5         | 1                | 2            | 1           | Int          | M            | P         | GR          | TN | IB    |
| CP0820E                   | 0.8 IND Peking/P188,788 | Rps3a/NG    | 2             | 2/NA          | Inc/Exc            | 3             | 1/NG          | 2                                   | 1/NA               | NA                | 5         | 1                | 2            | 2           | Int/Bush     | MT           | P         | GR          | TN | BF    |
| CP0822E*                  | 0.8 IND P188,788        | NG          | 2             | NA            | Excluder           | 2             | NG            | 2                                   | NA                 | NA                | 5         | 1                | 1            | 2           | Int          | M            | P         | GR          | TN | BF    |
| NEW CP0824E*              | 0.8 IND Peking          | Rps3a       | 1             | 2             | Includer           | 3             | 1             | 2                                   | 1                  | NA                | 5         | 1                | 2            | 1           | Int/Bush     | MT           | P         | GR          | TN | BF    |
| NEW CP1121E               | 1.1 IND P188,788        | NG          | 2             | 2             | Includer           | 3             | NG            | 2                                   | 1                  | NA                | NA        | 1                | 3            | 1           | Int          | MT           | P         | GR          | TN | IB    |
| NEW CP1123E*              | 1.1 IND Peking          | Rps3a       | 1             | 2             | Includer           | 3             | 1             | 2                                   | 1                  | NA                | 5         | 1                | 2            | 1           | Int          | MT           | P         | GR          | TN | BF    |
| NEW CP1130E               | 1.1 IND Peking          | Rps3a       | 1             | 3             | Includer           | 3             | 1             | 2                                   | 1                  | NA                | 5         | 1                | 2            | 1           | Int/Bush     | MT           | P         | GR          | TN | BF    |
| NEW CP1224E*              | 1.2 IND Peking          | Rps3a       | 1             | 3             | Includer           | 3             | 1             | 2                                   | 1                  | NA                | 5         | 1                | 2            | 1           | Int/Bush     | MT           | P         | GR          | TN | BF    |
| NEW CP1422E*              | 1.4 IND P188,788        | NG          | 2             | 2             | Includer           | 3             | 1             | 3                                   | NA                 | NA                | 5         | 1                | 2            | 2           | Int          | M            | P         | LTW         | TN | BL    |
| CP1430E                   | 1.4 IND P188,788        | Rps3a/NG    | 2             | 2             | Includer           | 3             | 1             | 3                                   | NA                 | NA                | 5         | 1                | 2            | 2           | Int          | M            | P         | GR          | TN | BF/BL |
| CP1522E                   | 1.5 IND P188,788        | Rps3a       | 1             | 2             | Includer           | 3             | 1             | 3                                   | NA                 | NA                | 5         | 1                | 2            | 2           | Int          | M            | P         | GR          | TN | BF    |
| NEW CP1620E               | 1.6 IND Peking          | Rps1k,1k,6  | 3             | 2             | Includer           | 3             | 1             | 2                                   | 1/NA               | 1/NA              | 1/NA      | 2                | 2            | 1/NA        | Int/Bush     | MT           | P         | GR/LTW      | TN | BF/BR |
| CP1623E                   | 1.6 IND Peking          | Rps1k       | 2             | 2             | Includer           | 3             | 1             | 2                                   | 1                  | NA                | 1         | 1                | 2            | 1           | Int          | MT           | P         | GR          | TN | BF    |
| NEW CP1624E*              | 1.6 IND Peking          | Rps1k,6     | 3             | 2             | Includer           | 2             | 2             | 2                                   | NA                 | 1                 | NA        | 2                | 2            | NA          | Int/Bush     | M            | P         | LTW         | TN | BR    |

**KEY**

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  - 4 = Marginal
  - 5 = Not Recommended
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HRps = Heterozygous segregating Rps occurrence
- 3 Southern Stem Ganker and Root-Knot Nematode**  
1 = Resistant  
2 = Moderately Resistant  
3 = Moderately Resistant-Moderately Susceptible  
4 = Moderately Susceptible  
5 = Susceptible
- 4 Canopy Type**  
Nar = Narrow  
Int = Intermediate  
Bush = Bushy
- 5 Plant Height**  
T = Tall  
M = Medium  
S = Short
- 6 Flower Color**  
P = Purple  
W = White
- 7 Pubescence Type**  
GR = Gray  
TW = Tan/gray  
LTM = Light Tan/gray
- 8 Pod Color**  
TN = Tan  
BR = Brown
- 9 Hilum Color**  
YE = Yellow/Clear  
GR = Gray  
BL = Black  
IB = Imperfect Black  
BR = Brown  
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SL = Slate  
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# SOYBEAN

## CROPLAN

WinPaK® Variety Components

SCN Resistant Source

PRR Gene

SDS Tolerance

SWM Tolerance

BST Tolerance

Southern Stem Canker

Iron Chlorosis

Root-Knot Nematode

Emergence

Stress Tolerance

Standardity

Canopy Type

Plant Height

Flower Color

Pod Color

Hilum Color

### ENLIST E3® – RM: 1.7-3.0

| CP1720E      | CP1721E/CP1722E*  | 1.7 | IND | PI88.788        | Rps1k.3a | 2 | 3 | Includer | 3 | 3/NG | 3 | NA   | NA   | 5/NA | 1 | 2 | 2    | Int      | MT | P  | GR     | BR/TN | IB/BF |
|--------------|-------------------|-----|-----|-----------------|----------|---|---|----------|---|------|---|------|------|------|---|---|------|----------|----|----|--------|-------|-------|
| CP1721E      |                   | 1.7 | IND | PI88.788        | Rps1k    | 2 | 3 | Includer | 2 | NG   | 2 | NA   | NA   | NA   | 1 | 1 | 2    | INT      | M  | P  | GR     | BR    | IB    |
| CP1722E*     |                   | 1.7 | IND | PI88.788        | Rps3a    | 1 | 2 | Includer | 3 | 3    | 3 | NA   | NA   | 5    | 1 | 3 | 1    | Int      | MT | P  | GR     | TN    | BF    |
| CP1929E      |                   | 1.9 | IND | PI88.788        | Rps1k    | 2 | 2 | Includer | 2 | NG   | 2 | 1    | NA   | 1    | 1 | 2 | 1    | Int      | MT | P  | LTW    | BR    | BL    |
| NEW CP1924E* |                   | 1.9 | IND | Peking          | Rps1k    | 1 | 2 | Includer | 2 | 5    | 2 | 1    | NA   | 5    | 1 | 1 | 1    | Int      | MT | P  | GR     | TN    | BF    |
| NEW CP1930E  | CP1924E*/CP2024E* | 1.9 | IND | Peking          | Rps1k    | 2 | 3 | Includer | 3 | 4    | 3 | 1    | 4/NA | 5/NA | 2 | 1 | 1/NA | Int      | M  | P  | GR     | BR/TN | BF/IB |
| NEW CP2024E* |                   | 2   | IND | Peking          | Rps1k    | 2 | 4 | Includer | 2 | 2    | 3 | 1    | 4    | NA   | 2 | 1 | NA   | Int      | M  | P  | GR     | BR    | IB    |
| CP2030E      | CP1923E/CP2122E   | 2   | IND | PI88.788        | Rps1k/1c | 2 | 3 | Includer | 2 | 2/NG | 3 | 1    | NA   | 1/NA | 2 | 2 | 1/NA | Int      | MT | P  | GR/LTW | BR    | BL/IB |
| CP2122E      |                   | 2.1 | IND | PI88.788        | Rps1c    | 2 | 3 | Includer | 2 | 2    | 3 | 1    | NA   | NA   | 2 | 2 | NA   | Int      | M  | P  | GR     | BR    | IB    |
| CP2220E      | CP2222E*/CP2232E* | 2.2 | IND | PI88.788        | Rps1c/NG | 3 | 3 | Includer | 2 | 2    | 2 | NA   | NA   | NA   | 2 | 2 | NA   | Int      | MT | PW | GR     | BR/TN | BF/IB |
| CP2222E*     |                   | 2.2 | IND | PI88.788        | Rps1c    | 3 | 3 | Includer | 3 | 2    | 2 | 1    | NA   | NA   | 2 | 2 | NA   | Int      | MT | P  | GR     | BR    | IB    |
| CP2232E*     |                   | 2.2 | IND | PI88.788        | NG       | 2 | 2 | Includer | 2 | 1    | 2 | NA   | NA   | NA   | 2 | 2 | 2    | Int      | MT | W  | GR     | TN    | BF    |
| CP2322E      |                   | 2.3 | IND | PI88.788        | Rps1c    | 2 | 2 | Includer | 2 | 2    | 3 | 1    | NA   | NA   | 2 | 2 | NA   | Int      | M  | P  | GR     | BR    | IB    |
| CP2520E      | CP2523E*/CP2524E* | 2.5 | IND | Peking/PI88.788 | Rps1a/1k | 3 | 3 | Includer | 3 | 2/NG | 3 | 1/NA | 2/NA | 5    | 3 | 3 | 2/NA | Bush     | MT | P  | GR/LTW | BR/TN | BF/BL |
| NEW CP2524E* |                   | 2.5 | IND | PI88.788        | Rps1a    | 2 | 3 | Includer | 3 | NG   | 3 | 1    | NA   | 5    | 2 | 2 | 2    | Int      | MT | P  | GR     | BR    | BF    |
| CP2524E*     |                   | 2.5 | IND | Peking          | Rps1k    | 3 | 3 | Includer | 3 | 2    | 3 | NA   | 2    | 5    | 3 | 3 | NA   | Bush     | M  | P  | LTW    | TN    | BL    |
| CP2822E      |                   | 2.8 | IND | PI88.788        | Rps1k    | 2 | 3 | Includer | 3 | NG   | 3 | NA   | NA   | NA   | 2 | 2 | 2    | Int/Bush | MT | P  | GR     | BR    | IB    |
| CP2920E      | CP2822E/CP3024E*  | 2.9 | IND | PI88.788        | Rps1k/NG | 2 | 3 | Includer | 3 | 5/NG | 3 | 1/NA | 2/NA | 5/NA | 2 | 2 | 2    | Int/Bush | MT | P  | GR     | BR    | IB    |
| NEW CP3024E* |                   | 3.0 | IND | PI88.788        | NG       | 1 | 3 | Includer | 3 | 5    | 3 | 1    | 2    | 5    | 1 | 2 | 1    | Int      | MT | P  | GR     | BR    | IB    |

### KEY

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

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

#### 1 SCN Resistant Source

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

#### 2 PRR Gene

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

#### 3 Southern Stem Canker and Root-Knot Nematode

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

#### 4 Canopy Type

**Nar** = Narrow  
**Int** = Intermediate  
**Bush** = Bushy

#### 6 Flower Color

**P** = Purple  
**W** = White

#### 8 Pod Color

**TN** = Tan  
**BR** = Brown

#### 9 Hilum Color

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

#### 7 Pubescence Type

**GR** = Gray  
**TW** = Tan/wooly  
**LTM** = Light Tan/wooly

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

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

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





# Give Mother Nature a Run for Its Money.

## CROPLAN AA ALFALFA

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

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

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

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

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

## THE TRAITS YOU NEED

### HARVXTRA® ALFALFA WITH ROUNDUP READY® TECHNOLOGY

This is the alfalfa trait package 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<sup>1</sup> and NDFd<sup>1</sup> 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.<sup>2</sup>
- Plus the benefits of Roundup Ready® Alfalfa technology.



### ROUNDUP READY® ALFALFA

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



### CONVENTIONAL ALFALFA

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

### ALFALFA FOR ORGANIC FORAGE PRODUCTION

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



## COATED SEED

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

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

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

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

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

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

## CROPLAN HVX Tundra II

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



### Characteristics

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

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

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

## CROPLAN HVX Driver

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



### Characteristics

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

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

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

## CROPLAN HVX MegaTron

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



### Characteristics

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

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

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

NEW

## CROPLAN HVX MegaTron AA

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



### Characteristics

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

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

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

## CROPLAN HVX 620RR Brand

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



### Characteristics

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

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

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

## CROPLAN HVX 840RR Brand

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



### Characteristics

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

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

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

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

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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 Graze N Hay 3.10RR

Regions: North|West  
 Fall Dormancy: 2.9  
 Winterhardness: 1.8



### Characteristics

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

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

## CROPLAN RR Presteez

Regions: Central|East|North|West  
 Fall Dormancy: 3.2  
 Winterhardness: 1.2



### Characteristics

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

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

## CROPLAN RR Vamoose

Regions: Central|East|North  
 Fall Dormancy: 3.9  
 Winterhardness: 1.8



### Characteristics

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

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

NEW

## CROPLAN RR AphaTron AA

Regions: Central|East|North|West  
 Fall Dormancy: 4.4  
 Winterhardness: 1.4



### Characteristics

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

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

## CROPLAN RR AphaTron 2XT

Regions: Central|East|North|West  
 Fall Dormancy: 4  
 Winterhardness: 1.5



### Characteristics

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

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

## CROPLAN RR Stratica

Regions: Central|East|North|West  
 Fall Dormancy: 4.3  
 Winterhardness: 2



### Characteristics

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

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

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

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## CROPLAN RR Saltiva

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



### Characteristics

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

- Exceptional performance 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

## CROPLAN RR NemaStar

Regions: West  
 Fall Dormancy: 4.9  
 Winterhardiness: 2.8



### Characteristics

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

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

## CROPLAN RR Tonnica

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



### Characteristics

|                     | Not Recommended |   |   | Excellent |   |   |
|---------------------|-----------------|---|---|-----------|---|---|
| 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

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



### Characteristics

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

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

## CROPLAN RR Desert Rose

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



### Characteristics

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

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

## CROPLAN Maxi Graze®

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

### Characteristics

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

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

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

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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 MP 1000 Brand

Regions: Central|East|North|West  
 Fall Dormancy: 3  
 Winterhardness: 3

### Characteristics

|                     | Not Recommended |   |   | Excellent |   |   |
|---------------------|-----------------|---|---|-----------|---|---|
| Yield Index         | ■               | ■ | ■ | ■         | ■ | ■ |
| Persistence Index   | ■               | ■ | ■ | ■         | ■ | ■ |
| Feed Quality        | ■               | ■ | ■ | ■         | ■ | ■ |
| Disease Resistance  | ■               | ■ | ■ | ■         | ■ | ■ |
| Insect Resistance   | ■               | ■ | ■ | ■         | ■ | ■ |
| Nematode Resistance | ■               | ■ | ■ | ■         | ■ | ■ |

- 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  
 Winterhardness: 1.1

### Characteristics

|                     | Not Recommended |   |   | Excellent |   |   |
|---------------------|-----------------|---|---|-----------|---|---|
| Yield Index         | ■               | ■ | ■ | ■         | ■ | ■ |
| Persistence Index   | ■               | ■ | ■ | ■         | ■ | ■ |
| Feed Quality        | ■               | ■ | ■ | ■         | ■ | ■ |
| Disease Resistance  | ■               | ■ | ■ | ■         | ■ | ■ |
| Insect Resistance   | ■               | ■ | ■ | ■         | ■ | ■ |
| Nematode Resistance | ■               | ■ | ■ | ■         | ■ | ■ |

- 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  
 Winterhardness: 3

### Characteristics

|                     | Not Recommended |   |   | Excellent |   |   |
|---------------------|-----------------|---|---|-----------|---|---|
| Yield Index         | ■               | ■ | ■ | ■         | ■ | ■ |
| Persistence Index   | ■               | ■ | ■ | ■         | ■ | ■ |
| Feed Quality        | ■               | ■ | ■ | ■         | ■ | ■ |
| Disease Resistance  | ■               | ■ | ■ | ■         | ■ | ■ |
| Insect Resistance   | ■               | ■ | ■ | ■         | ■ | ■ |
| Nematode Resistance | ■               | ■ | ■ | ■         | ■ | ■ |

- 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  
 Winterhardness: 1.7

### Characteristics

|                     | Not Recommended |   |   | Excellent |   |   |
|---------------------|-----------------|---|---|-----------|---|---|
| Yield Index         | ■               | ■ | ■ | ■         | ■ | ■ |
| Persistence Index   | ■               | ■ | ■ | ■         | ■ | ■ |
| Feed Quality        | ■               | ■ | ■ | ■         | ■ | ■ |
| Disease Resistance  | ■               | ■ | ■ | ■         | ■ | ■ |
| Insect Resistance   | ■               | ■ | ■ | ■         | ■ | ■ |
| Nematode Resistance | ■               | ■ | ■ | ■         | ■ | ■ |

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

## CROPLAN Gunner AA

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

### Characteristics

|                     | Not Recommended |   |   | Excellent |   |   |
|---------------------|-----------------|---|---|-----------|---|---|
| Yield Index         | ■               | ■ | ■ | ■         | ■ | ■ |
| Persistence Index   | ■               | ■ | ■ | ■         | ■ | ■ |
| Feed Quality        | ■               | ■ | ■ | ■         | ■ | ■ |
| Disease Resistance  | ■               | ■ | ■ | ■         | ■ | ■ |
| Insect Resistance   | ■               | ■ | ■ | ■         | ■ | ■ |
| Nematode Resistance | ■               | ■ | ■ | ■         | ■ | ■ |

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

## CROPLAN Gunner

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

### Characteristics

|                     | Not Recommended |   |   | Excellent |   |   |
|---------------------|-----------------|---|---|-----------|---|---|
| Yield Index         | ■               | ■ | ■ | ■         | ■ | ■ |
| Persistence Index   | ■               | ■ | ■ | ■         | ■ | ■ |
| Feed Quality        | ■               | ■ | ■ | ■         | ■ | ■ |
| Disease Resistance  | ■               | ■ | ■ | ■         | ■ | ■ |
| Insect Resistance   | ■               | ■ | ■ | ■         | ■ | ■ |
| Nematode Resistance | ■               | ■ | ■ | ■         | ■ | ■ |

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

## KEY

### Scale

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

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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.



## Nimbus

Regions: Central|North|West

Fall Dormancy: 5

Winterhardiness: 2.2

### Characteristics

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

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



## Artesian Sun 6.3

Regions: South|West

Fall Dormancy: 6

Winterhardiness: 3.1

### Characteristics

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

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



## Sun Titan

Regions: South|West

Fall Dormancy: 8.4

Winterhardiness: -

### Characteristics

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

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



## Sun Quest®

Regions: South|West

Fall Dormancy: 9

Winterhardiness: -

### Characteristics

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

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

## KEY

### Scale

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

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

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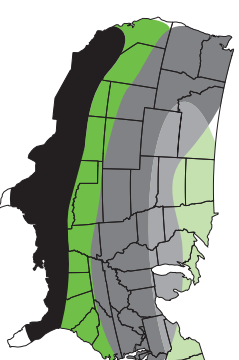


## ALFALFA VARIETY PLACEMENT<sup>1</sup>

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.

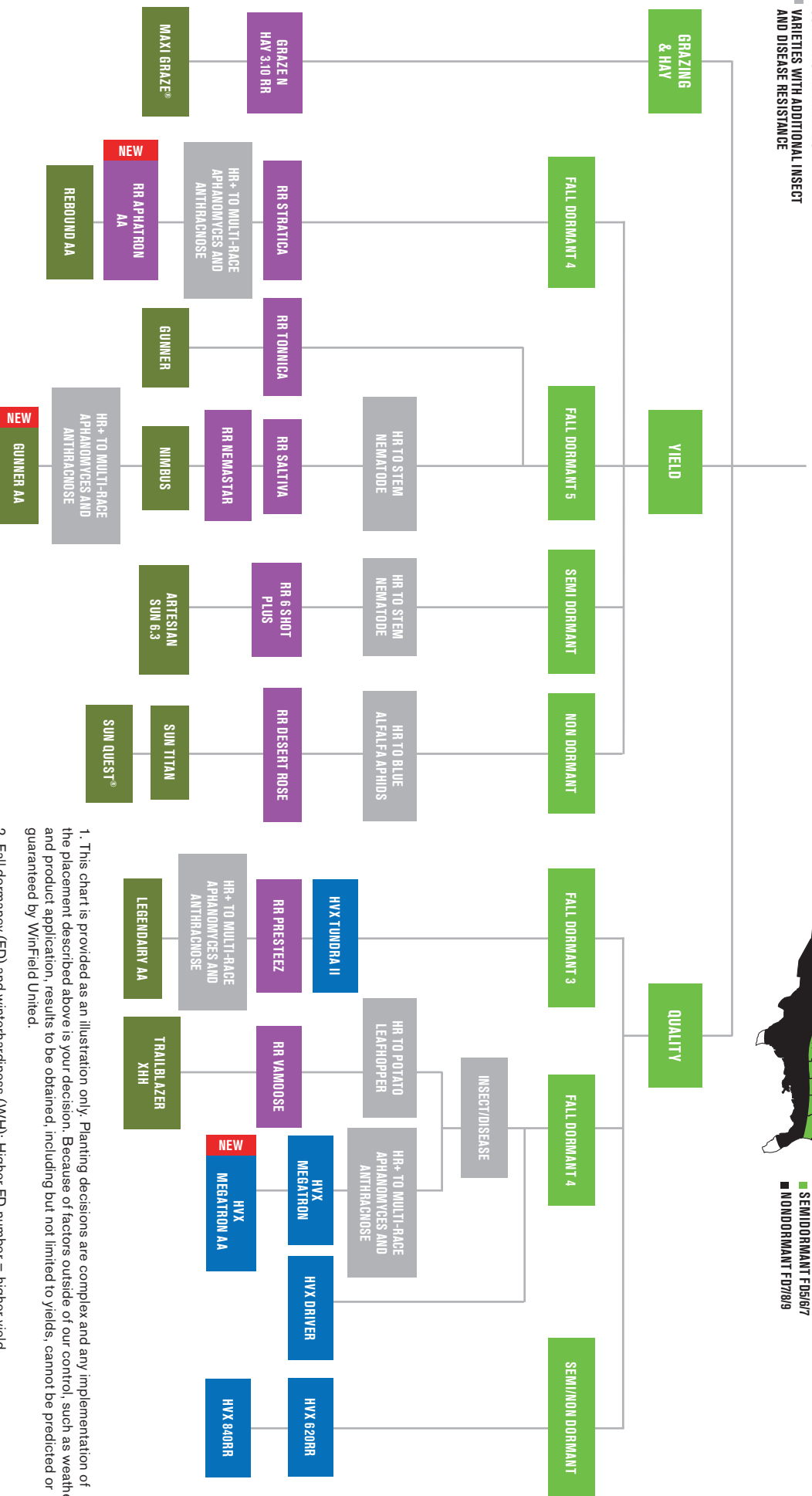
## PRODUCT DORMANCY MAP<sup>2</sup>

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



- WINTERHARDY FD2/3
- WINTERHARDY FD3/4
- WINTERHARDY FD4/5
- SEMIDORMANT FD5/6/7
- NONDORMANT FD7/8/9

- HARVYTRA<sup>®</sup> ALFALFA VARIETIES
- ROUNDUP READY<sup>®</sup> VARIETIES
- CONVENTIONAL VARIETIES
- VARIETIES WITH ADDITIONAL INSECT AND DISEASE RESISTANCE



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

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

Trait  
 Winterhardiness  
 Fall Dormancy  
 Persistence Index  
 Yield Index  
 Feed Quality Index  
 Grazing Tolerance  
 Baled Hay Tolerance  
 Haylage (Drydown)  
 Phytonutrient  
 Potato Leafhopper  
 Aphonomyses Race 1  
 Aphonomyses Race 2  
 Multi-Race (EMR)  
 Anthracnose Enhanced  
 Root Rot Wilting  
 Anthracnose Race 1  
 Anthracnose Multi-Race  
 Fusarium Wilting  
 Spotted Alfalfa Aphid  
 Verticillium Wilting  
 Blue Alfalfa Aphid  
 Pea Aphid  
 Salt Germination  
 Northern Root-Knot Nematode  
 Stem Nematode  
 Disease Resistance  
 Insect Resistance  
 Nematode Resistance

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

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

**Resistance Ratings**

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

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

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

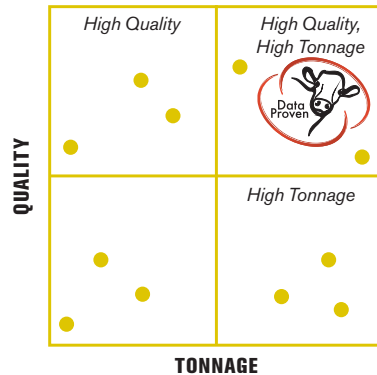




# Introducing Our “New Math”: High Quality x High Tonnage = Stellar Yield Potential.

## SELECT HYBRIDS FOR QUALITY AND TONNAGE

When selecting a corn silage hybrid, two considerations should rise to the top: quality to achieve milk/ton and tonnage for yield. In replicated Answer Plot<sup>®</sup> trials, we test CROPLAN<sup>®</sup> 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<sup>®</sup> data to help position each hybrid for optimal performance based on multiple variables.

## WHEN PERFORMANCE IS ON THE LINE, THINK SILAGEFIRST<sup>®</sup> HYBRIDS

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

### LEAFY HYBRIDS

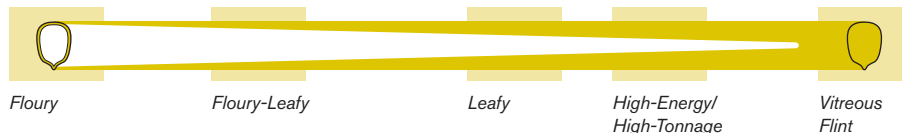
- Leafy stalks are thicker and more digestible, with larger ears to produce more energy.

### 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.





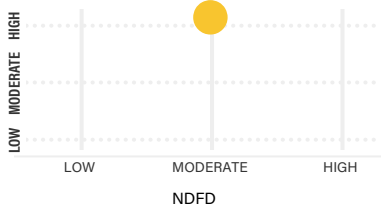
**CROPLAN CP184RR**

Relative Maturity: 80



**Tonnage vs NDFD**

Tonnage



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

**Characteristics**

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

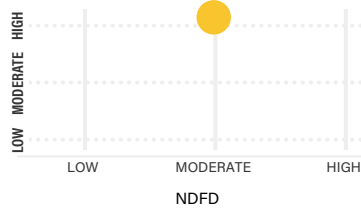
**CROPLAN CP2692D**

Relative Maturity: 86



**Tonnage vs NDFD**

Tonnage



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

**Characteristics**

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

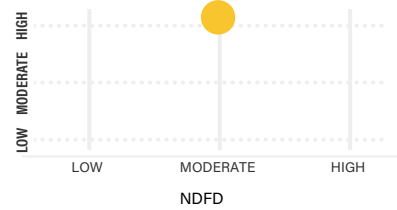
**CROPLAN CP2790VT2P/RIB**

Relative Maturity: 87



**Tonnage vs NDFD**

Tonnage



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

**Characteristics**

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

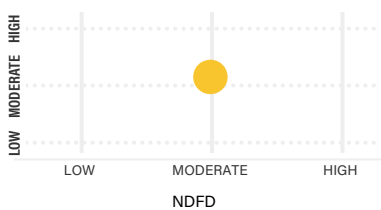
**CROPLAN CP2845SS/RIB**

[VT2P/RIB]\*  
Relative Maturity: 89



**Tonnage vs NDFD**

Tonnage



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

**Characteristics**

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

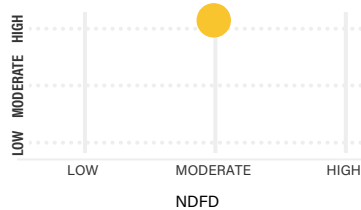
**CROPLAN CP2965VT2P/RIB**

[RR]  
Relative Maturity: 89



**Tonnage vs NDFD**

Tonnage



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

**Characteristics**

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

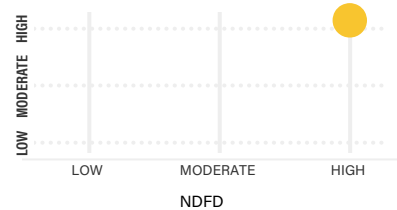
**CROPLAN CP3200SRR**

Relative Maturity: 93



**Tonnage vs NDFD**

Tonnage



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

**Characteristics**

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

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

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

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

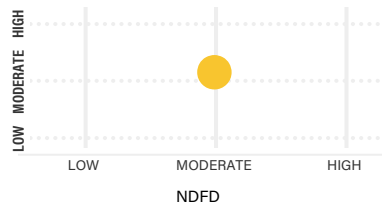
**CROPLAN CP3399SS/RIB**

[VT2P/RIB]\*  
Relative Maturity: 94



**Tonnage vs NDFD**

Tonnage



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

**Characteristics**

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

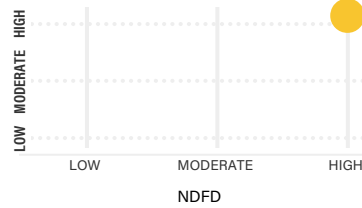
**CROPLAN CP3490VT2P/RIB**

Relative Maturity: 94



**Tonnage vs NDFD**

Tonnage



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

**Characteristics**

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

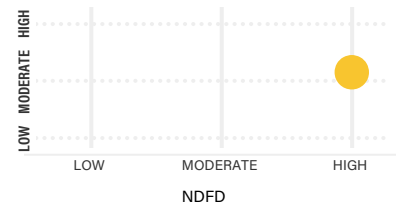
**CROPLAN CP3575VT2P/RIB**

Relative Maturity: 95



**Tonnage vs NDFD**

Tonnage



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

**Characteristics**

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

**NEW**

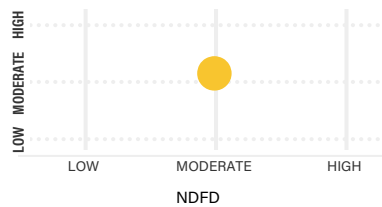
**CROPLAN CP3715SSPRO/RIB**

Relative Maturity: 97



**Tonnage vs NDFD**

Tonnage



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

**Characteristics**

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

**NEW**

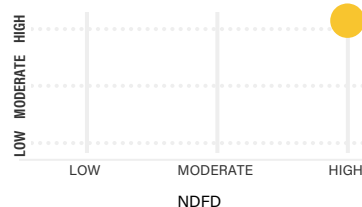
**CROPLAN CP3724VT2P/RIB**

Relative Maturity: 97



**Tonnage vs NDFD**

Tonnage



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

**Characteristics**

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

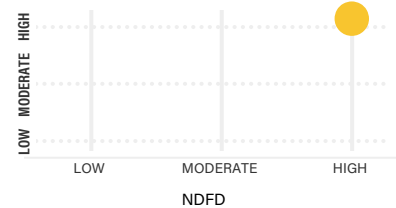
**CROPLAN CP3735SS/RIB**

[VT2P/RIB]\*  
Relative Maturity: 97



**Tonnage vs NDFD**

Tonnage



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

**Characteristics**

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

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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**

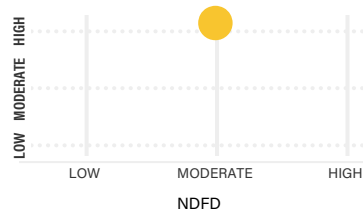
**CROPLAN CP3852TRE/RIB**

Relative Maturity: 98



**Tonnage vs NDFD**

Tonnage



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

**Characteristics**

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

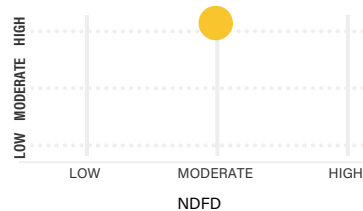
**CROPLAN CP3899VT2P/RIB**

Relative Maturity: 98



**Tonnage vs NDFD**

Tonnage



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

**Characteristics**

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

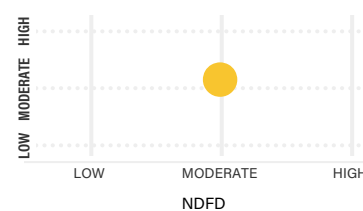
**CROPLAN CP3980VT2P/RIB**

Relative Maturity: 99



**Tonnage vs NDFD**

Tonnage



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

**Characteristics**

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

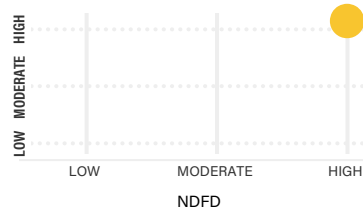
**CROPLAN CP4079SS/RIB**

[VT2P/RIB]\*  
Relative Maturity: 100



**Tonnage vs NDFD**

Tonnage



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

**Characteristics**

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

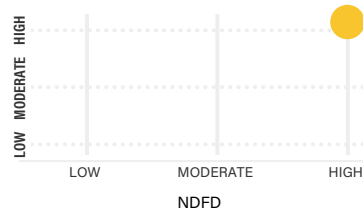
**CROPLAN CP4099SS/RIB**

Relative Maturity: 100



**Tonnage vs NDFD**

Tonnage



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

**Characteristics**

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

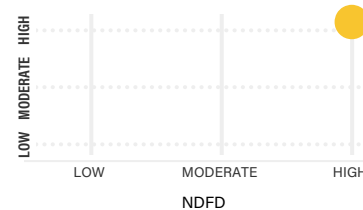
**CROPLAN CP4100SVT2P/RIB**

Relative Maturity: 101



**Tonnage vs NDFD**

Tonnage



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

**Characteristics**

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

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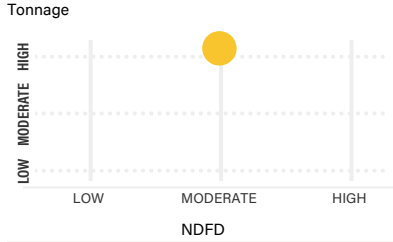
CROPLAN® corn silage hybrids that consistently perform for high-quality and high-tonnage in Answer Plot® trials.

**CROPLAN CP4188VT2P/RIB**

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



**Tonnage vs NDFD**



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

**Characteristics**

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

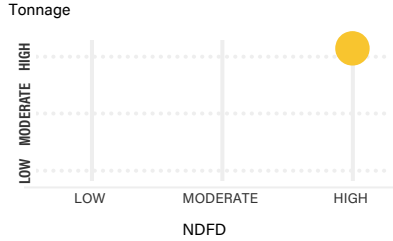
**NEW**

**CROPLAN CP4200S/RR**

Relative Maturity: 102



**Tonnage vs NDFD**



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

**Characteristics**

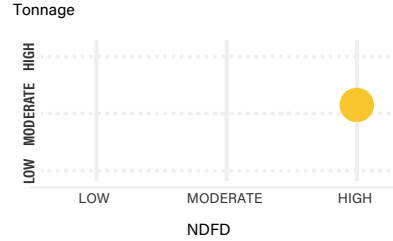
|                   | Not Recommended | Excellent |
|-------------------|-----------------|-----------|
| Seedling Vigor    |                 | 2         |
| Drought Tolerance |                 | 2         |
| Root Strength     |                 | 2         |
| Tonnage Potential |                 | 1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

**CROPLAN CP4444VT2P**

Relative Maturity: 104



**Tonnage vs NDFD**



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

**Characteristics**

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

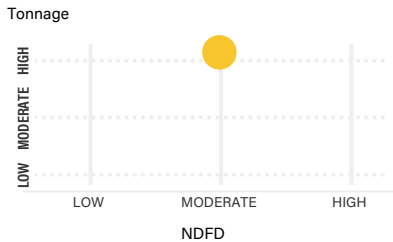
**NEW**

**CROPLAN CP4516TRE/RIB**

Relative Maturity: 105



**Tonnage vs NDFD**



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

**Characteristics**

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

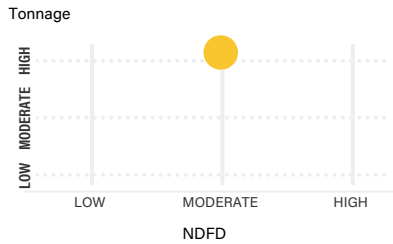
**NEW**

**CROPLAN CP4652SSPRO/RIB**

Relative Maturity: 106



**Tonnage vs NDFD**



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

**Characteristics**

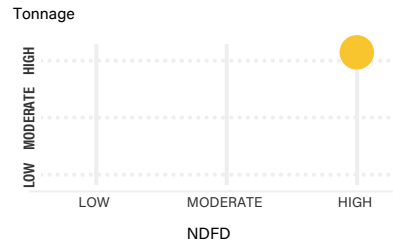
|                   | Not Recommended | Excellent |
|-------------------|-----------------|-----------|
| Seedling Vigor    |                 | 2         |
| Drought Tolerance |                 | 2         |
| Root Strength     |                 | 2         |
| Tonnage Potential |                 | 1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

**CROPLAN CP4676SS/RIB**

Relative Maturity: 106



**Tonnage vs NDFD**



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

**Characteristics**

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

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

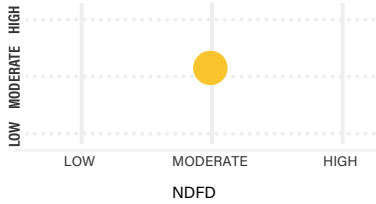
**CROPLAN CP4880SS/RIB**

Relative Maturity: 108



**Tonnage vs NDFD**

Tonnage



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

**Characteristics**

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

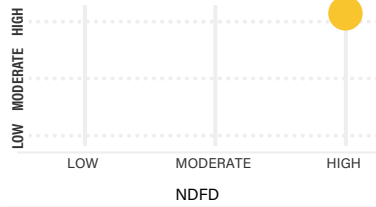
**CROPLAN CP5073SS/RIB**

[VT2P/RIB]\*  
Relative Maturity: 110



**Tonnage vs NDFD**

Tonnage



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

**Characteristics**

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

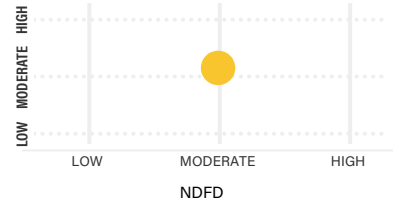
**CROPLAN CP6110VT2P/RIB**

Relative Maturity: 110



**Tonnage vs NDFD**

Tonnage



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

**Characteristics**

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

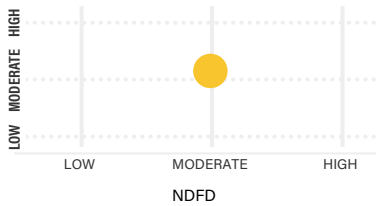
**CROPLAN CP5115SS/RIB**

[VT2P/RIB]\*  
Relative Maturity: 111



**Tonnage vs NDFD**

Tonnage



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

**Characteristics**

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

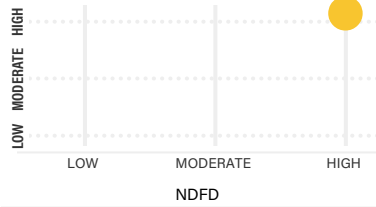
**CROPLAN CP5244VT2P/RIB**

Relative Maturity: 112



**Tonnage vs NDFD**

Tonnage



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

**Characteristics**

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

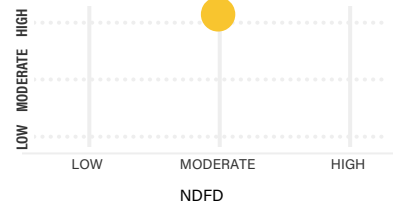
**CROPLAN CP5370SS/RIB**

[VT2P/RIB]\*  
Relative Maturity: 113



**Tonnage vs NDFD**

Tonnage



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

**Characteristics**

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

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

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

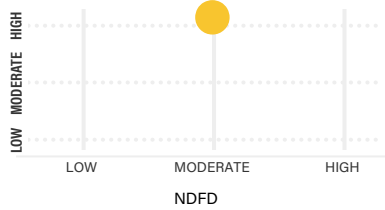
**CROPLAN CP5550VT2P/RIB**

Relative Maturity: 115



**Tonnage vs NDFD**

Tonnage



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

**Characteristics**

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

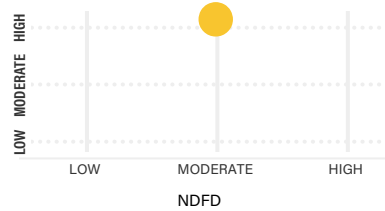
**CROPLAN CP5678VT2P/RIB**

[SS/RIB]\*  
Relative Maturity: 116



**Tonnage vs NDFD**

Tonnage



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

**Characteristics**

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

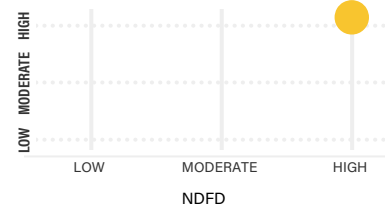
**CROPLAN CP5700SVT2P/RIB**

Relative Maturity: 117



**Tonnage vs NDFD**

Tonnage



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

**Characteristics**

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

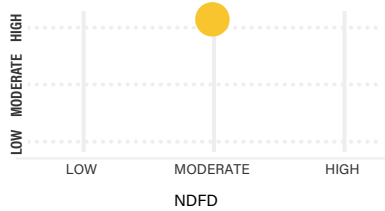
**CROPLAN CP5760TRE/RIB**

Relative Maturity: 117



**Tonnage vs NDFD**

Tonnage



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

**Characteristics**

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

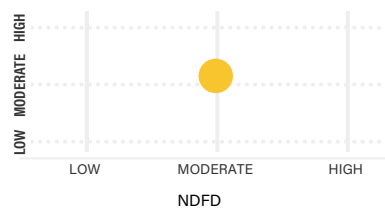
**CROPLAN CP5789VT2P/RIB**

Relative Maturity: 117



**Tonnage vs NDFD**

Tonnage



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

**Characteristics**

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

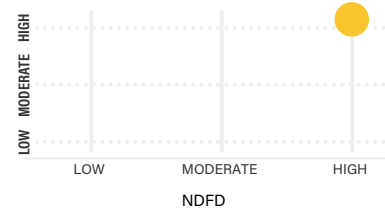
**CROPLAN CP5893TRE/RIB**

Relative Maturity: 118



**Tonnage vs NDFD**

Tonnage



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

**Characteristics**

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

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

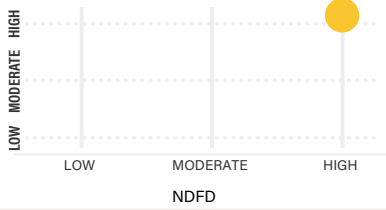
**CROPLAN CP5900SVT2P/RIB**

Relative Maturity: 119



**Tonnage vs NDFD**

Tonnage



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

**Characteristics**

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

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



| BRAND                | Plant Height 1 | Ear Height 2 | Ear Flex 3 | Flower Date 4 | Kernel Rows | Population [RTF] 5 | Nitrogen [RTN] 5 | Fungicide [RTF] 5 | Response to Seeding Vigor | Root Strength | Stalk Quality | Gray Leaf Spot | NC1B | Drought Tolerance | Tonnage Potential | # Milk/Acre | % NDFD | % NDF | % Starch | % Crude Protein | Calibrate® Starch Rating 6 | Calibrate® Fiber Rating 7 |    |
|----------------------|----------------|--------------|------------|---------------|-------------|--------------------|------------------|-------------------|---------------------------|---------------|---------------|----------------|------|-------------------|-------------------|-------------|--------|-------|----------|-----------------|----------------------------|---------------------------|----|
| CP184RR              | 80             | M-T          | M          | FL            | E           | 16-18              | M                | L                 | M                         | 2             | 2             | 3              | NA   | 3                 | 5                 | 3           | 3      | 3     | 4        | 3               | 3                          | 4                         | S  |
| 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                         | NA |
| CP2190VT2P/RIB*      | 87             | M-T          | M          | SF            | E           | 16-18              | L                | M                 | H                         | 1             | 2             | 3              | 2    | 4                 | 1                 | 2           | 3      | 3     | 1        | 3               | 3                          | 3                         | NA |
| CP2845SS/RIB*        | 89             | M-T          | M          | SF            | E           | 16-18              | H                | H                 | H                         | 1             | 1             | 2              | NA   | 3                 | 4                 | 1           | 3      | 3     | 4        | 3               | 2                          | 2                         | MS |
| CP2966VT2P/RIB*      | 89             | M            | M          | SF            | M           | 14-16              | M                | H                 | H                         | 1             | 2             | 1              | 3    | 3                 | 3                 | 2           | 2      | 3     | 3        | 3               | 3                          | 3                         | MF |
| CP3200SRR            | 93             | T            | M          | FL            | M           | 14-16              | L                | H                 | H                         | 2             | 2             | 2              | 3    | 3                 | 2                 | 2           | 1      | 1     | 2        | 2               | 2                          | 3                         | MF |
| CP3399SS/RIB*        | 94             | M            | M          | SF            | M           | 16-18              | M                | H                 | M                         | 2             | 2             | 2              | 3    | 3                 | 4                 | 2           | 3      | 4     | 3        | 3               | 3                          | 4                         | MS |
| CP3490VT2P/RIB       | 94             | M-T          | M-H        | SF            | M-L         | 18-20              | M                | L                 | H                         | 1             | 3             | 3              | 3    | 3                 | 3                 | 2           | 1      | 1     | 2        | 3               | 2                          | 3                         | M  |
| CP3575VT2P/RIB*      | 95             | M            | M          | SF            | M-L         | 16-18              | H                | H                 | L                         | 2             | 2             | 2              | 2    | 2                 | 4                 | 3           | 3      | 3     | 1        | 3               | 3                          | 3                         | M  |
| NEW CP3715SSPR0/RIB* | 97             | M-T          | M-H        | SF            | M-E         | 18-20              | M                | M                 | M                         | 2             | 2             | 2              | 4    | 2                 | 2                 | 2           | 3      | 3     | 5        | 1               | 3                          | 1                         | M  |
| NEW CP3724VT2P/RIB*  | 97             | M-T          | M          | SF            | M           | 16-18              | M                | H                 | H                         | 2             | 2             | 2              | 2    | 3                 | 3                 | 2           | 1      | 1     | 2        | 4               | 3                          | 3                         | 2  |
| NEW CP3735SS/RIB*    | 97             | M            | M          | SF            | M           | 16-18              | M                | H                 | H                         | 1             | 2             | 2              | 3    | 3                 | 3                 | 3           | 3      | 3     | 4        | 1               | 3                          | 3                         | MF |
| NEW CP3852TRE/RIB*   | 98             | M-T          | M-H        | FL            | L           | 16-18              | M                | M                 | H                         | 2             | 2             | 2              | 3    | 3                 | 2                 | 2           | 1      | 1     | 3        | 4               | 1                          | 5                         | M  |
| CP3899VT2P/RIB*      | 98             | M-T          | M-H        | SF            | L           | 16-20              | H                | H                 | H                         | 1             | 2             | 2              | 4    | 4                 | 3                 | 2           | 1      | 1     | 3        | 3               | 2                          | 3                         | MF |
| CP3980VT2P/RIB       | 99             | M-T          | M-H        | SF            | M           | 14-16              | M                | M                 | H                         | 2             | 1             | 3              | 2    | NA                | 3                 | 3           | 3      | 3     | 2        | 1               | 3                          | 3                         | MS |
| CP4079VT2P/RIB*      | 100            | M-T          | M          | SF            | M           | 14-16              | M                | M                 | H                         | 2             | 1             | 3              | 3    | 3                 | 2                 | 2           | 2      | 2     | 2        | 3               | 3                          | 3                         | M  |
| CP4099SS/RIB*        | 100            | M-T          | M          | SF            | L           | 16-20              | H                | H                 | H                         | 1             | 1             | 2              | 4    | 4                 | 3                 | 2           | 2      | 2     | 2        | 3               | 3                          | 3                         | S  |
| CP4100SVT2P/RIB*     | 101            | T            | M          | SF            | M           | 16-18              | H                | NA                | M                         | 3             | 2             | 2              | 3    | 3                 | 2                 | 2           | 1      | 1     | 2        | 3               | 4                          | 3                         | MF |
| CP4188VT2P/RIB*      | 101            | M            | M          | SF            | M           | 16-18              | M                | M                 | M                         | 1             | 1             | 2              | 3    | 2                 | 2                 | 2           | 1      | 1     | 2        | 3               | 2                          | 2                         | MS |
| NEW CP4200S/RR       | 102            | T            | M          | FL            | M           | 14-16              | L                | M                 | M                         | 2             | 2             | 3              | NA   | 3                 | 2                 | 2           | 1      | 3     | 2        | 1               | 4                          | 1                         | 4  |

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 XT = Extra Tall  
 T = Tall  
 M = Medium  
 S = Short

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

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

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

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

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

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

These ratings reflect trends observed in research trials that change with variations in rainfall, temperature, crop production patterns and other factors. Ratings on new hybrids are based on limited data and may change as more data is collected.  
 \*Follow RMI guidelines and refuge configurations to preserve the benefits and insect protection of these technology crops.

| BRAND                        | Relative Maturity | Plant Height 1 | Ear Height 2 | Ear Flex 3 | Flower Date 4 | Kernel Rows | Population [RTP] 5 | Nitrogen [RTN] 6 | Fungicide [RTF] 6 | Response to Seeding Vigor 6 | Root Strength | Stalk Quality | Gray Leaf Spot | NCI8 | Drought Tolerance | Tonnage Potential | # MWK/Acre | % NDF | % NDF | % Starch | % Crude Protein | Calibrate® Starch Rating 7 | Calibrate® Fiber Rating 7 | TDN |    |    |    |
|------------------------------|-------------------|----------------|--------------|------------|---------------|-------------|--------------------|------------------|-------------------|-----------------------------|---------------|---------------|----------------|------|-------------------|-------------------|------------|-------|-------|----------|-----------------|----------------------------|---------------------------|-----|----|----|----|
| CP4444VT2P                   | 104               | T              | M-H          | SF         | M-L           | 14-16       | H                  | L                | L                 | 1                           | 2             | 2             | 3              | 3    | 3                 | 3                 | 3          | 3     | 3     | 2        | 1               | 1                          | 4                         | 3   | MF | M  |    |
| <b>NEW</b> CP4516TR/RI/B*    | 105               | M              | M            | SF         | M-E           | 16-18       | M                  | M                | H                 | 2                           | 2             | 3             | 3              | 3    | 2                 | 3                 | 1          | 2     | 4     | 4        | 1               | 4                          | 4                         | 4   | MS | MS |    |
| <b>NEW</b> CP4652SSPRD/RI/B* | 106               | M-T            | H            | SF         | M             | 14-16       | L                  | H                | M                 | 2                           | 2             | 2             | 4              | 3    | 2                 | 2                 | 1          | 1     | 4     | 3        | 3               | 3                          | 4                         | 3   | M  | M  |    |
| CP4678SS/RI/B*               | 106               | M              | M            | SF         | M             | 16-18       | M                  | H                | M                 | 1                           | 3             | 3             | 3              | 2    | 3                 | 3                 | 2          | 2     | 1     | 2        | 3               | 2                          | 1                         | 1   | MF | F  |    |
| CP4808SS/RI/B*               | 108               | M-S            | M            | SD         | M             | 14-16       | H                  | M                | H                 | 2                           | 2             | 2             | 3              | 3    | NA                | 3                 | 3          | 2     | 3     | 5        | 2               | 3                          | 3                         | 1   | M  | M  |    |
| CP5073SS/RI/B*               | 110               | M              | M-H          | SF         | M             | 16-18       | M                  | H                | H                 | 1                           | 2             | 3             | 3              | 2    | 3                 | 2                 | 1          | 2     | 2     | 2        | 2               | 2                          | 1                         | 2   | MF | MF |    |
| CP5115SS/RI/B*               | 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               | 2                          | 3                         | 3   | 3  | MS | M  |
| CP6110VT2P/RI/B*             | 110               | M              | M            | SF         | M             | 16-18       | M                  | M                | M                 | 2                           | 1             | 3             | 4              | 2    | 3                 | 1                 | 3          | 3     | 3     | 2        | 1               | 4                          | 3                         | 3   | M  | MF |    |
| CP5244VT2P/RI/B              | 112               | M-T            | M-H          | SF         | E             | 16-18       | M                  | M                | M                 | 2                           | 2             | 3             | 3              | 2    | 3                 | 2                 | 1          | 1     | 2     | 2        | 1               | 2                          | 1                         | 3   | 3  | M  | MF |
| CP5370SS/RI/B*               | 113               | T              | M-H          | SF         | M             | 18-20       | H                  | H                | M                 | 1                           | 1             | 1             | 3              | 2    | 4                 | 2                 | 2          | 2     | 3     | 2        | 2               | 2                          | 3                         | 3   | 3  | M  | M  |
| CP5550VT2P/RI/B*             | 115               | M-T            | M-H          | SF         | M             | 14-16       | M                  | M                | M                 | 2                           | 2             | 2             | 3              | 3    | 3                 | 3                 | 2          | 1     | 1     | 3        | 4               | 4                          | 3                         | 2   | 2  | MS | MS |
| CP5678VT2P/RI/B*             | 116               | M              | M            | SF         | M             | 14-16       | M                  | H                | M                 | 3                           | 3             | 2             | 3              | 2    | 3                 | 2                 | 2          | 2     | 4     | 4        | 3               | 2                          | 2                         | 2   | 2  | M  | M  |
| CP5700SVT2P/RI/B*            | 117               | M-T            | M            | SF         | M             | 16-18       | M                  | H                | M                 | 2                           | 2             | 2             | NA             | NA   | NA                | 3                 | 1          | 1     | 2     | 4        | 4               | 4                          | 2                         | 2   | 2  | MF | MF |
| CP5760TR/RI/B*               | 117               |                | M-H          | SF         | NA            | 16-18       | L                  | H                | M                 | 2                           | 3             | 3             | 3              | 3    | NA                | 3                 | 1          | 1     | 3     | 2        | 4               | 4                          | 5                         | 3   | 3  | M  | M  |
| CP5789VT2P/RI/B*             | 117               | T              | M-H          | SF         | M             | 16-18       | H                  | M                | M                 | 2                           | 1             | 1             | 3              | 1    | 4                 | 2                 | 3          | 3     | 4     | 3        | 3               | 3                          | 3                         | 3   | 3  | M  | M  |
| <b>NEW</b> CP5893TR/RI/B*    | 118               | M              | M-L          | SF         | L             | 18-20       | M                  | M                | M                 | 1                           | 2             | 2             | 2              | 2    | 3                 | 2                 | 1          | 1     | 2     | 2        | 2               | 3                          | 4                         | 3   | 3  | MS | M  |
| <b>NEW</b> CP3900SVT2P/RI/B* | 119               | T              | M-H          | SF         | M             | 16-18       | M                  | H                | NA                | 2                           | 3             | 3             | NA             | NA   | NA                | 2                 | 1          | 1     | 2     | 3        | 4               | 1                          | 1                         | 2   | 2  | M  | M  |

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 Ratings based on 2018-2022 silage samples.

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 F = Fast  
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# FORAGE SORGHUM

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

## SELECT THE RIGHT FORAGE TYPE FOR YOUR OPERATION

---

### ► Forage Sorghum (single-cut silage)

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

### ► Sorghum x Sudan (multi-cut or grazing)

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

### ► Pearl Millet (multi-cut or grazing)

Brachytic plant stature with finer stalks and prolific tillering.

## SELECT THE HYBRID WITH THE TRAIT YOU NEED

---

### BROWN MIDRIB-6 TRAIT

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

### BRACHYTIC TRAIT

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

### PHOTOPERIOD SENSITIVITY TRAIT

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

### SUGARCANE APHID (SCA)

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

### HERBICIDE TOLERANCE

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

**CROPLAN BMR 3211**

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

**Characteristics**

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

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

**NEW**

**CROPLAN BMR 3212**

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

**Characteristics**

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

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

**CROPLAN IQ 3501**

Regions: Central|South|West  
Maturity: Mid

**Characteristics**

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

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

**CROPLAN 3506**

Regions: Central|South|West  
Maturity: Mid

**Characteristics**

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

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

**NEW**

**CROPLAN 3541 BMR Leafy AT**

Regions: Central|South|West  
Maturity: Mid

**Characteristics**

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

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

**CROPLAN 3681 AT**

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

**Characteristics**

|                   | Not Recommended | 2 | 1 | Excellent |
|-------------------|-----------------|---|---|-----------|
| 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); SCA may be on plant in low numbers, plant handles stress well
- Extremely flexible hybrid; excellent disease and drought tolerance allow for placement across Central and Southern U.S.
- Very high leaf expression and great stalks deliver good yield potential
- Excellent standability; plants can reach 8 to 9 feet tall; manage water and fertility for a mid-maturity hybrid
- Recommended seeding rate: 60,000 to 70,000 seeds per acre at 1 to 1 1/2 inches deep, depending on soil moisture

**KEY**  
Scale  
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3 = Acceptable  
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5 = Not Recommended

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**Hybrid Number System**  
First Number: 1 = Sorghum x Sudan; 2 = Sudan; 3 = Forage Sorghum; 4 = Pearl Millet  
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Third Number: 0 = No special features; 1 = BMR; 2 = BMR and photoperiod; 3 = BMR and brachytic; 5 = Conventional dwarf, not a brachytic; 8 = Photoperiod  
Fourth Number: Series number or new variety type

**NEW****CROPLAN 3731 BMR Leafy**Regions: Central|South|West  
Maturity: Late**Characteristics**

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

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

**NEW****CROPLAN 3851 IG**Regions: Central|South  
Maturity: Late**Characteristics**

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

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

**CROPLAN Greentreat® 1531**Regions: Central|East|North|South|West  
Maturity: Heads at ~50 days**Characteristics**

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

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

**NEW****CROPLAN Dynamo II**Regions: Central|East|North|South|West  
Maturity: Heads at ~75 days**Characteristics**

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

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

**CROPLAN GUARDIAN AT**Regions: Central|East|North|South|West  
Maturity: Heads at ~60 days**Characteristics**

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

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

**CROPLAN Greentreat® 1923**Regions: Central|East|North|South|West  
Maturity: photoperiod sensitive**Characteristics**

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

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

**KEY**

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**Hybrid Number System**

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**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 Honey Sweet AT

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

### Characteristics

|                   | Not Recommended | Excellent |
|-------------------|-----------------|-----------|
| 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 PM 4611 BMR

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

### Characteristics

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

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

## CROPLAN PM 4612 BMR

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

### Characteristics

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

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

## CROPLAN PM 4507 PM

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

### Characteristics

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

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

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3 = BMR and brachytic; 5 = Conventional dwarf, not a brachytic; 8 = Photoperiod  
**Fourth Number:** Series number or new variety type

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

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 Fourth Number: Series number or new variety type





## GRAIN SORGHUM

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

### **SELECT THE HYBRID WITH THE TRAIT YOU NEED**

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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)**

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- 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**

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

**NEW****CROPLAN CP5730DT**Adaptation: SD, NE, KS, CO, OK, TX  
Maturity To Mid-Bloom: 57**DT. TRAIT****Characteristics**

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

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

**CROPLAN CP5811A**Adaptation: SD, NE, KS, CO, OK, TX  
Maturity To Mid-Bloom: 58**Characteristics**

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

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

**CROPLAN CP5921A**Adaptation: SD, NE, KS, CO, OK, TX  
Maturity To Mid-Bloom: 59**Characteristics**

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

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

**CROPLAN CP6011**Adaptation: SD, NE, KS, CO, OK, TX  
Maturity To Mid-Bloom: 60**Characteristics**

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

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

**CROPLAN CP6021A**Adaptation: SD, NE, KS, CO, OK, TX  
Maturity To Mid-Bloom: 60**Characteristics**

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

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

**NEW****CROPLAN CP6145DT**Adaptation: SD, NE, KS, CO, OK, TX  
Maturity To Mid-Bloom: 61**DT. TRAIT****Characteristics**

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

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

**KEY Scale**

- 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 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

**NEW****CROPLAN CP6211A**

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

**Characteristics**

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

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

**CROPLAN CP6367ig**

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

**Characteristics**

|                   | Not Recommended |  |  | Excellent |   |
|-------------------|-----------------|--|--|-----------|---|
| 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 areas prone to SCA
- Increase management to find top-end yield potential

**CROPLAN CP6409DT**

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

**DT. TRAIT****Characteristics**

|                   | Not Recommended |  |  | Excellent |   |
|-------------------|-----------------|--|--|-----------|---|
| 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 CP6664igA**

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

**Characteristics**

|                   | Not Recommended |  |  | Excellent |   |
|-------------------|-----------------|--|--|-----------|---|
| 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 Kan. and Okla.
- Strong sugarcane aphid (SCA) tolerance

**CROPLAN CP6811**

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

**Characteristics**

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

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

**CROPLAN CP7011A**

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

**Characteristics**

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

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

**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****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

## BRAND

|                     | Maturity to Mid-Bloom | Seeding Depth | Average Seeds/lb (x1000) | Soil Temp at Planting | (SD, NE, KS, CO, OK, TX) SCA Tolerant | Midwest/East Adaptation | Plant Height | High End Yield Response | Low End Yield Response | Head Erection | Seeding Vigor | Test Weight | Stalk Strength | Root Strength | Thresholdity | Fusarium Head Blight | Head Shrot | Anthraxnose | Downy Mildew |
|---------------------|-----------------------|---------------|--------------------------|-----------------------|---------------------------------------|-------------------------|--------------|-------------------------|------------------------|---------------|---------------|-------------|----------------|---------------|--------------|----------------------|------------|-------------|--------------|
| <b>NEW</b> CP5730DT | 1-1 1/2"              | 12            | 60                       | N                     | Y                                     | Y                       | Med          | 1                       | 2                      | 2             | 2             | 1           | 2              | 3             | 1            | 3                    | NA         | NA          | NA           |
| CP5811A             | 1-1 1/2"              | 17            | 60                       | Y                     | Y                                     | NA                      | 47-50"       | 2                       | 2                      | 1             | 2             | 1           | 2              | 1             | 1            | 2                    | NA         | 3           | NA           |
| CP5921A             | 1-1 1/2"              | 15            | 60                       | Y                     | Y                                     | NA                      | 31-35"       | 1                       | 1                      | 1             | 1             | 2           | 1              | 2             | 2            | 1                    | 2          | NA          | 2            |
| CP6011              | 1-1 1/2"              | 14            | 60                       | N                     | Y                                     | NA                      | 38-42"       | 1                       | 1                      | 1             | 3             | 3           | 2              | 1             | 1            | 2                    | 4          | 3           | 4            |
| CP6021A             | 1-1 1/2"              | 14            | 60                       | Y                     | Y                                     | NA                      | 31-35"       | 1                       | 2                      | 1             | 2             | 2           | 2              | 2             | 2            | 1                    | 2          | NA          | 2            |
| <b>NEW</b> CP6145DT | 1-1 1/2"              | 14            | 60                       | N                     | Y                                     | NA                      | Med          | 1                       | 2                      | 1             | 2             | 1           | 2              | 2             | 1            | 1                    | 2          | NA          | 3            |
| CP6211A             | 1-1 1/2"              | 15            | 60                       | Y                     | Y                                     | Y                       | 50-53"       | 2                       | 2                      | 2             | 3             | 1           | 1              | 2             | 1            | 2                    | 2          | 2           | NA           |
| CP6367ig            | 1-1 1/2"              | 14            | 60                       | N                     | Y                                     | NA                      | 46-50"       | 1                       | 1                      | 2             | 1             | 1           | 1              | 2             | 2            | 1                    | NA         | NA          | NA           |
| <b>NEW</b> CP6409DT | 1-1 1/2"              | 14            | 60                       | N                     | Y                                     | Y                       | Med          | 2                       | 2                      | 2             | 2             | 1           | 2              | 2             | 2            | 3                    | NA         | NA          | NA           |
| CP6664igA           | 1-1 1/2"              | 14            | 60                       | Y                     | Y                                     | Y                       | 36-43"       | 1                       | 1                      | 2             | 1             | 2           | 1              | 1             | 2            | 1                    | NA         | NA          | NA           |
| CP6811              | 1-1 1/2"              | 14            | 60                       | N                     | Y                                     | NA                      | 50-55"       | 2                       | 1                      | 2             | 3             | 2           | 2              | 2             | 1            | 2                    | 4          | 3           | 3            |
| CP7011A             | 1-1 1/2"              | 15            | 60                       | Y                     | Y                                     | Y                       | 53-57"       | 1                       | 1                      | 2             | 1             | 1           | 2              | 2             | 2            | 1                    | 2          | 2           | NA           |

## KEY Scale

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

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

## Downy Mildew:

- S = Susceptible
- T = Tolerant

## Hybrid Number System

First & Second Number = Maturity to Mid-Bloom  
 Third & Fourth Number = Sequential  
 Trait Lettering: A = Sugarcane Aphid tolerance; ig = growth herbicide tolerance



# SPRING CANOLA

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

## THE RIGHT GENETICS AND TRAITS FOR YOUR ACRES

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



## LUMIDERM® INSECTICIDE SEED TREATMENT

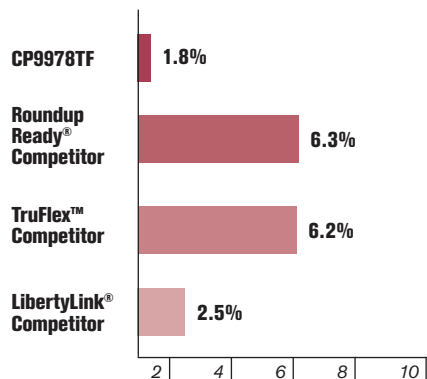
An industry leading technology responsible for:

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

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

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

% OF LOSS TO SHATTER



Variety Trial.

Northern Resources, Roseau, Minn.

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



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



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

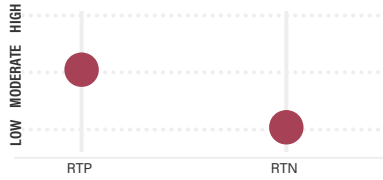
# CROPLAN

**CROPLAN CP930RR**

Spring Canola



**Response Scores**



**Characteristics**

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

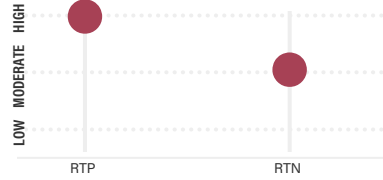
- Industry-leading oil content
- Excellent yield potential for early maturity; strong stress tolerance
- Good for straight-cutting; good shatter scores
- Strong vigor, for less-than-ideal seedbeds and no-till

**CROPLAN CP9221TF**

Spring Canola



**Response Scores**



**Characteristics**

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

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

**CROPLAN CP9978TF**

Spring Canola



**Response Scores**



**Characteristics**

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

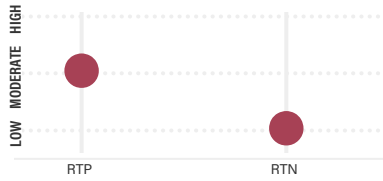
- Excellent for straight-cutting with one of the industry's leading shatter and pod drop tolerance hybrids
- Highest yield potential in cooler, higher yielding environments; responds well to higher populations
- Excellent vigor for heavy trash, cold soils or no-till
- LepR3, RlmS provide enhanced blackleg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

**CROPLAN CP7130LL**

Spring Canola



**Response Scores**



**Characteristics**

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

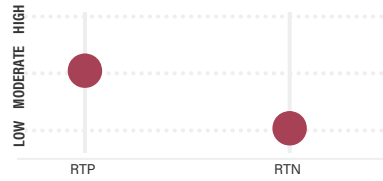
- High yield potential hybrid in cooler and moderate- to higher-yielding environments
- Good shatter tolerance and standability for timely straight-cut systems
- Low RTN score increases stability across acres and helps in lower nitrogen soils or under lower nitrogen management systems
- Brings sclerotinia,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

**CROPLAN CP7250LL**

Spring Canola



**Response Scores**



**Characteristics**

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

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

**KEY**  
 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.





# SPRING CANOLA

## CROPLAN

|                              | Herbicide Tolerance Trait | Common Seed Size Range | Vigor | Days to Flower | Relative Maturity | Blackleg <sup>2</sup> | Resistance Group <sup>3</sup> | Clubroot <sup>4</sup> | Height <sup>1</sup> | Lodging | Drought Tolerance | Response to Population (RTP) <sup>5</sup> | Oil Content | Response to Nitrogen (RTN) <sup>5</sup> |   |
|------------------------------|---------------------------|------------------------|-------|----------------|-------------------|-----------------------|-------------------------------|-----------------------|---------------------|---------|-------------------|---|-------------|---|---|
| <b>ROUNDUP READY® CANOLA</b> |                           |                        |       |                |                   |                       |                               |                       |                     |         |                   |   |             |   |   |
| CP930RR                      | Roundup Ready             | 90-120,000             | 1     | 45             | 90                | R                     | C                             | S                     | S                   | 1       | 3                 | 1   | 1           | M                                       | L |
| <b>TRUFLEX™ CANOLA</b>       |                           |                        |       |                |                   |                       |                               |                       |                     |         |                   |   |             |   |   |
| 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 |
| <b>LIBERTYLINK® CANOLA</b>   |                           |                        |       |                |                   |                       |                               |                       |                     |         |                   |   |             |   |   |
| CP7130LL                     | LibertyLink               | 90-120,000             | 1     | 48             | 91                | R                     | Multi                         | R - 2, 3, 5, 6, 8     | M                   | 2       | 2                 | 2   | 3           | M                                       | L |
| CP7250LL                     | LibertyLink               | 90-120,000             | 1     | 50             | 94                | R                     | Multi                         | R - 2, 3, 5, 6, 8     | M                   | 2       | 2                 | 3   | 2           | M                                       | L |

### KEY

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

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

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

- 3 Blackleg Resistance Group**
- A
  - B
  - C
  - D
  - 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 descriptions and ratings are generated from Answer Plot® trials and/or from the genetics supplier and may change as additional data is gathered.





## WINTER CANOLA

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

## USE CUTTING-EDGE WEED CONTROL

---

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

### ROUNDUP READY® WINTER CANOLA

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

### ROUNDUP READY® WINTER CANOLA WITH SURT

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



## NEW CANOLA ROTATIONAL OPPORTUNITY

---

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

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

**G2FLEX**

## PLANTING FOR WINTERHARDINESS

---

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

**CROPLAN CP115WRR**

Winter Canola

**Characteristics**

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

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

**CROPLAN CP225WRR**

Winter Canola

**Characteristics**

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

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

**CROPLAN CP320WRR**

Winter Canola

**Characteristics**

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

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

**CROPLAN CP1022WC**

Winter Canola

**Characteristics**

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

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

**CROPLAN CP1077WC**

Winter Canola

**Characteristics**

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

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

**CROPLAN CP1066WC**

Winter Canola

**Characteristics**

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

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

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

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



# WINTER CANOLA

CROPLAN

|   | Herbicide Tolerance Trait  | Type            | Common Seed Size Range | Maturity | Height <sup>1</sup> | Oil Content | Fall Vigor | Winter-hardiness | Lodging | Drought Tolerance |
|---|----------------------------|-----------------|------------------------|----------|---------------------|-------------|------------|------------------|---------|-------------------|
| <b>ROUNDUP READY® + SURT WINTER CANOLA</b>  |                            |                 |                        |          |                     |             |            |                  |         |                   |
| CP115WR                                     | Roundup Ready + SURT       | Open Pollinated | 100,000-130,000        | Medium   | M-S                 | 2           | 2          | 2                | 2       | 1                 |
| CP225WR                                     | Roundup Ready + SURT       | Open Pollinated | 100,000-130,000        | Medium   | M                   | 1           | 2          | 2                | 2       | 2                 |
| <b>ROUNDUP READY® WINTER CANOLA</b>         |                            |                 |                        |          |                     |             |            |                  |         |                   |
| CP320WR                                     | Roundup Ready              | Open Pollinated | 100,000-130,000        | Medium   | M                   | 1           | 1          | 1                | 2       | 2                 |
| <b>CONVENTIONAL + G2FLEX™ WINTER CANOLA</b> |                            |                 |                        |          |                     |             |            |                  |         |                   |
| CP1022WC                                    | G2FLEX™                    | Open Pollinated | 100,000-130,000        | Medium   | T                   | 1           | 1          | 1                | 2       | 1                 |
| <b>CONVENTIONAL WINTER CANOLA</b>           |                            |                 |                        |          |                     |             |            |                  |         |                   |
| CP1077WC                                    | Conventional Winter Canola | Hybrid          | 100,000-130,000        | Medium   | T                   | 1           | 1          | 2                | 2       | 2                 |
| CP1066WC                                    | Conventional Winter Canola | Open Pollinated | 100,000-130,000        | Medium   | M                   | 1           | 1          | 1                | 1       | 2                 |

## KEY

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



SUNFLOWER

# Decades of Sunflower Insights Have Led to This Moment.

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

## **FORTENZA® INSECTICIDE SEED TREATMENT**

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

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

## **PROSUN™ PRECISE SEED COATING**

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

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

## **NEW SUNFLOWER PRODUCT LINE**

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

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

## **TRAIT OPTIONS FOR THE WEED CONTROL YOU NEED**

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

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

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

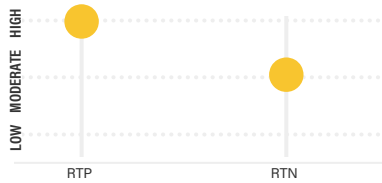
CROPLAN

**CROPLAN CP432E**

ExpressSun® Sunflower



**Response Scores**



**Characteristics**

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

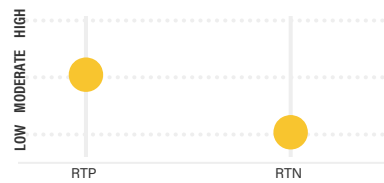
- High yield potential for early maturity
- Shorter plant height; very uniform
- DMR PI 8; resistant to all common U.S. races of downy mildew
- Utilize higher populations if pushing yield goals higher; has also shown yield response to higher available nitrogen

**CROPLAN CP450E**

ExpressSun® Sunflower



**Response Scores**



**Characteristics**

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

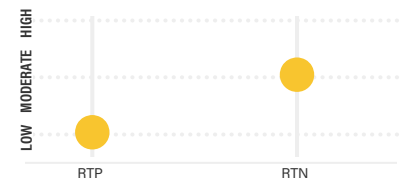
- Excellent yield potential; great defensive complement to CP455E
- Top performer in stressed environments
- Stronger standability than CP455E; good hybrid to plant early
- Good drought stress tolerance and low demand for additional nitrogen to maintain yield potential

**CROPLAN CP455E**

ExpressSun® Sunflower



**Response Scores**



**Characteristics**

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

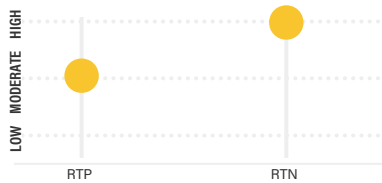
- Excellent yield potential; top performer in CROPLAN® lineup
- Widely adapted across regions and field conditions
- Medium-short plant with excellent drydown
- Good drought response along with sclerotinia tolerance for higher-moisture years

**CROPLAN CP4909E**

ExpressSun® Sunflower



**Response Scores**



**Characteristics**

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

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

**CROPLAN CP5220CLSS**

Clearfield® Sunflower



**Response Scores - NA**



**Characteristics**

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

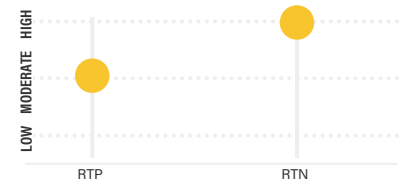
- Very early, extremely short-statured hybrid
- Excellent stalks, roots and late season standability
- Ultra-early hybrid with DMR for the high oleic crush/birdseed market
- Excellent option for late-planting or double-crop acres with in-season ground applications possible

**CROPLAN CP5045CL**

Clearfield® Sunflower



**Response Scores**



**Characteristics**

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

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

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

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

**CROPLAN CP3845**

Conventional Sunflower

**Response Scores - NA**



**Characteristics**

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

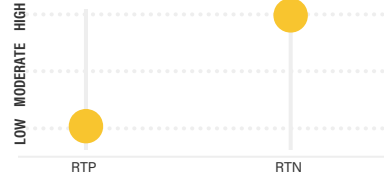
- Strong yield potential in higher-yielding environments
- Consistent performance across multiple environments
- One of the top oil content products in the CROPLAN® lineup
- Plant at higher populations for best results

**CROPLAN CP7919CL**

Clearfield® Sunflower



**Response Scores**



**Characteristics**

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

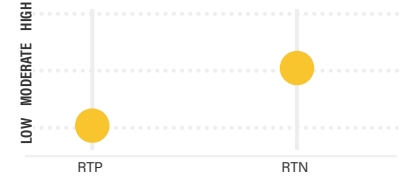
- High yield potential, oil and oleic levels
- Above-average disease tolerance
- High yield response to additional nitrogen availability
- Full maturity; plant early when utilizing north of I-94 in Minn., No. Dak., and Mont.

**CROPLAN CP4157E**

ExpressSun® Sunflower



**Response Scores**



**Characteristics**

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

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

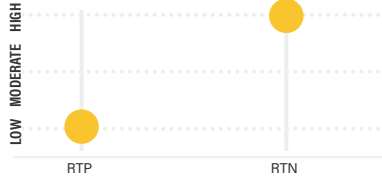
**NEW**

**CROPLAN CP4255E**

ExpressSun® Sunflower



**Response Scores**



**Characteristics**

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

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

**NEW**

**CROPLAN CP4475E**

ExpressSun® Sunflower



**Response Scores - NA**



**Characteristics**

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

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

**NEW**

**CROPLAN CP5249**

Clearfield® Sunflower



**Response Scores - NA**



**Characteristics**

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

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

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

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

NEW



# CP5242

Clearfield® Sunflower



## Response Scores - NA



## Characteristics

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

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

**KEY**

**Scale**  
 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.





# SUNFLOWER

## CROPLAN

|                               | High Oleic <sup>1</sup> | MUSun <sup>1</sup> | Debulling <sup>1</sup> | Birdseed <sup>1</sup> | Days to Maturity | Downy Mildew Resistance <sup>2</sup> | Phomopsis | Sclerotinia | Height    | Road Strength | Stalk Quality | Drought Tolerance | Oil Content | Starch Content | Common Planting Seed Size | Response-to-population (RT <sub>P</sub> ) <sup>3</sup> | Response-to-nitrogen (RT <sub>N</sub> ) <sup>3</sup> |    |    |
|-------------------------------|-------------------------|--------------------|------------------------|-----------------------|------------------|--------------------------------------|-----------|-------------|-----------|---------------|---------------|-------------------|-------------|----------------|---------------------------|--|--|----|----|
| <b>EXPRESSSUN® SUNFLOWER</b>  |                         |                    |                        |                       |                  |                                      |           |             |           |               |               |                   |             |                |                           |  |  |    |    |
| CP432E                        | ●                       | ●                  | ●                      | ●                     | 87               | PI 8                                 | 2         | 3           | Short     | 3             | 2             | 1                 | 2           | 4              | NA                        | 2, 3, 4  | H  | M  |    |
| CP450E                        | ●                       | ●                  | ●                      | ●                     | 94               | PI 8                                 | 2         | 2           | Medium    | 1             | 1             | 2                 | 1           | 4              | 2                         | 2, 3, 4  | M  | L  |    |
| CP455E                        | ●                       | ●                  | ●                      | ●                     | 93               | PI 6                                 | 3         | 2           | Medium    | 3             | 2             | 1                 | 2           | 3              | 1                         | 2, 3, 4  | L  | M  |    |
| CP4909E                       | ●                       | ●                  | ●                      | ●                     | 91               | -                                    | 3         | 2           | Short     | 2             | 2             | 1                 | 3           | 3              | NA                        | 2, P3, 3, 4  | M  | H  |    |
| CP4157E                       | ●                       | ●                  | ●                      | ●                     | 95               | PI 6                                 | 1         | 2           | Med-Tall  | 4             | 2             | 2                 | 4           | 2              | 1                         | 3, 4   | L  | M  |    |
| NEW CP4255E                   | ●                       | ●                  | ●                      | ●                     | TBD              | 93                                   | PI 2,6,8  | 1           | 2         | Med-Tall      | 2             | 2                 | 2           | 2              | 3                         | 1  | 2, 3, 4  | L  | H  |
| NEW CP4475E                   | ●                       | ●                  | ●                      | ●                     | TBD              | 92                                   | PI 6,8    | 1           | 2         | Tall          | 2             | 2                 | 1           | 2              | 3                         | 1  | 2, 3, 4  | NA | NA |
| <b>CLEARFIELD® SUNFLOWER</b>  |                         |                    |                        |                       |                  |                                      |           |             |           |               |               |                   |             |                |                           |  |  |    |    |
| CP5220CLSS                    | ●                       | ●                  | ●                      | ●                     | TBD              | 79                                   | PI 6      | 1           | NA        | Super Short   | 1             | 1                 | 1           | 4              | 3                         | 3, 4   | H  | NA |    |
| CP5045CL                      | ●                       | ●                  | ●                      | ●                     | TBD              | 95                                   | PI 6,17   | 3           | 2         | Med-Short     | 1             | 1                 | 3           | 1              | 2                         | NA   | 2, 3, 4  | M  | H  |
| CP7919CL                      | ●                       | ●                  | ●                      | ●                     | 97               | PI 6                                 | 1         | 3           | Med       | 2             | 2             | 3                 | 2           | 2              | 2                         | 2, 3, 4  | L  | H  |    |
| NEW CP5249                    | ●                       | ●                  | ●                      | ●                     | TBD              | 86                                   | PI 15     | NA          | Short     | 1             | 2             | 1                 | 1           | 2              | 1                         | NA   | NA   | NA |    |
| NEW CP5242                    | ●                       | ●                  | ●                      | ●                     | TBD              | 86                                   | PI 15     | NA          | Short     | 2             | 2             | 1                 | 2           | 1              | 1                         | NA   | NA   | NA |    |
| <b>CONVENTIONAL SUNFLOWER</b> |                         |                    |                        |                       |                  |                                      |           |             |           |               |               |                   |             |                |                           |  |  |    |    |
| CP3845                        | ●                       | ●                  | ●                      | ●                     | 92               | -                                    | 4         | 5           | Med-Short | 3             | 2             | 2                 | 2           | 1              | 1                         | 3, 4   | NA   | NA |    |

### KEY Scale

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

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

### 1 Market Options

Gain not guaranteed to be sold in your area. Due to factors outside our control, WinField United does not guarantee oleic levels. TBD = still in testing.

### 2 Downy Mildew Resistance

**PI 2 gene** = This gene is resistant to some of the early races of downy mildew, but it is susceptible to most of the common races found today.  
**PI 6 gene** = This gene is resistant to races prevalent before 2009; it is susceptible to races 314, 704, 714, 734 and 774.

**PI 8 gene** = This gene can get infected, but then stops downy mildew from advancing or having an economic impact on all common races.  
**PI 15 gene** = This gene is exclusive to CROPLAN® hybrids and is resistant to all known races of downy mildew.

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

### 3 RTM/RTF Ratings

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



# HARD RED SPRING WHEAT

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

## Optimize Seed ROI

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

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

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

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

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

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

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

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

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

## REVOLUTIONARY GRASSY WEED CONTROL

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

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

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

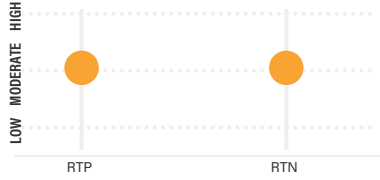
- Barnyard grass
- Bromus species, including ALS-resistant biotypes
- Feral and cereal rye
- Jointed goat grass, including ALS-resistant biotypes
- Wild oats (non-resistant Group1)
- Volunteer cereals



1. 2019 Answer Plot® trial data.

**CROPLAN CP3530**

Hard Red Spring

**Response Scores****Characteristics**

|                       | Not Recommended | Excellent |
|-----------------------|-----------------|-----------|
| Standability          | 4               |           |
| Bacterial Leaf Streak |                 | 2         |
| Test Weight           |                 | 2         |
| Protein               |                 | 2         |

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

**CROPLAN CP3915**

Hard Red Spring

**Response Scores****Characteristics**

|                       | Not Recommended | Excellent |
|-----------------------|-----------------|-----------|
| Standability          |                 | 1         |
| Bacterial Leaf Streak |                 | 1         |
| Test Weight           |                 | 1         |
| Protein               | 2               |           |

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

**CROPLAN CP3099A**

Hard Red Spring

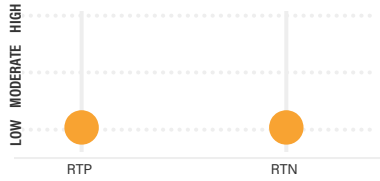
**Response Scores****Characteristics**

|                       | Not Recommended | Excellent |
|-----------------------|-----------------|-----------|
| Standability          |                 | 2         |
| Bacterial Leaf Streak | 4               |           |
| Test Weight           |                 | 3         |
| Protein               | 5               |           |

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

**CROPLAN CP3119A**

Hard Red Spring

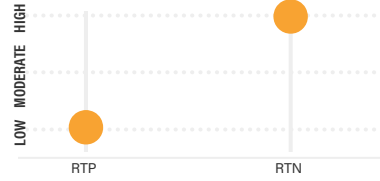
**Response Scores****Characteristics**

|                       | Not Recommended | Excellent |
|-----------------------|-----------------|-----------|
| Standability          |                 | 2         |
| Bacterial Leaf Streak | 4               |           |
| Test Weight           | 4               |           |
| Protein               | 4               |           |

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

**CROPLAN CP3201AX**

Hard Red Spring

**Response Scores****Characteristics**

|                       | Not Recommended | Excellent |
|-----------------------|-----------------|-----------|
| Standability          |                 | 1         |
| Bacterial Leaf Streak |                 | 2         |
| Test Weight           | 3               |           |
| Protein               |                 | 2         |

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

**NEW****CROPLAN CP3360AX**

Hard Red Spring

**Response Scores - NA****Characteristics**

|                       | Not Recommended | Excellent |
|-----------------------|-----------------|-----------|
| Standability          |                 | 1         |
| Bacterial Leaf Streak |                 | 3         |
| Test Weight           |                 | 1         |
| Protein               | 3               |           |

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

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

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

**CROPLAN CP3188**

Hard Red Spring

**Response Scores**



**Characteristics**

|                       | Not Recommended | Excellent |
|-----------------------|-----------------|-----------|
| Standability          | 3               |           |
| Bacterial Leaf Streak | 4               |           |
| Test Weight           | 3               |           |
| Protein               | 3               |           |

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

**NEW**

**CROPLAN CP3055**

Hard Red Spring

**Response Scores**



**Characteristics**

|                       | Not Recommended | Excellent |
|-----------------------|-----------------|-----------|
| Standability          | 4               |           |
| Bacterial Leaf Streak |                 | 2         |
| Test Weight           | 4               |           |
| Protein               | 4               |           |

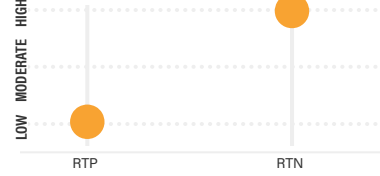
- High yield potential European-style genetics with a solid disease package
- Semi-solid stem variety for saw-fly tolerance; good stress tolerance for a great western fit
- Very large plant type and full-season maturity allows for very high yield potential
- Moderate yield response to nitrogen; as a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

**NEW**

**CROPLAN CP3322**

Hard Red Spring

**Response Scores**



**Characteristics**

|                       | Not Recommended | Excellent |
|-----------------------|-----------------|-----------|
| Standability          |                 | 2         |
| Bacterial Leaf Streak | 3               |           |
| Test Weight           | 3               |           |
| Protein               | 3               |           |

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

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

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

# HARD RED SPRING WHEAT

CROPLAN

| Variety                   | Wheat Class | Days to Heading | Days to Maturity | Height | Standability | Test Weight | Protein | Baking Quality | Placement on Irrigation | Fusarium Head Blight | Leaf Rust | Stem Rust | Stripe Rust | Bacterial Leaf Streak | Leaf Disease | Wheat Stem Sawfly | Response to Population (RTP) | Response to Nitrogen (RTN) |    |
|---------------------------|-------------|-----------------|------------------|--------|--------------|-------------|---------|----------------|-------------------------|----------------------|-----------|-----------|-------------|-----------------------|--------------|-------------------|------------------------------|----------------------------|----|
| <b>CONVENTIONAL WHEAT</b> |             |                 |                  |        |              |             |         |                |                         |                      |           |           |             |                       |              |                   |                              |                            |    |
| CP3330                    | Hard Red    | 57              | 87               | T      | 4            | 2           | 2       | 3              | 4                       | 2                    | 4         | 1         | 3           | 3                     | 3            | 2                 | 4                            | M                          | M  |
| CP3915                    | Hard Red    | 55              | 86               | M      | 1            | 1           | 2       | 2              | 1                       | 2                    | 1         | 1         | 1           | NA                    | 3            | 1                 | 4                            | H                          | M  |
| CP3099A                   | Hard Red    | 60              | 92               | T      | 2            | 3           | 5       | 4              | 2                       | 4                    | 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            | 4                 | 2                            | L                          | L  |
| CP3188                    | Hard Red    | 57              | 85               | T      | 3            | 3           | 3       | NA             | 3                       | 3                    | 1         | 4         | NA          | 3                     | 4            | 4                 | 4                            | L                          | M  |
| NEW CP3055                | Hard Red    | 60              | 92               | T      | 4            | 4           | 4       | NA             | 3                       | 3                    | 2         | 2         | NA          | 4                     | 4            | 2                 | 2                            | L                          | L  |
| NEW CP3322                | Hard Red    | 57              | 90               | T      | 2            | 3           | 3       | NA             | 2                       | 3                    | NA        | NA        | NA          | NA                    | NA           | 3                 | 2                            | L                          | H  |
| <b>COAXIUM® WHEAT</b>     |             |                 |                  |        |              |             |         |                |                         |                      |           |           |             |                       |              |                   |                              |                            |    |
| CP3201AX                  | Hard Red    | 54              | 85               | M      | 1            | 3           | 2       | NA             | 2                       | 3                    | NA        | NA        | 3           | NA                    | NA           | 2                 | 4                            | L                          | H  |
| NEW CP3360AX              | Hard Red    | 54              | 84               | M      | 1            | 1           | 3       | 3              | 2                       | 3                    | NA        | 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 Pro® trials and/or from the genetics supplier and may change as additional data is gathered.

## 1 RTP/RTN Ratings

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

## 2 Height

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

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



# HARD RED WINTER WHEAT

## Optimize Seed ROI

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

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

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

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

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

# Lesser Wheat May Give Up During Harsh Winters, But Not CROPLAN Wheat.

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

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

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

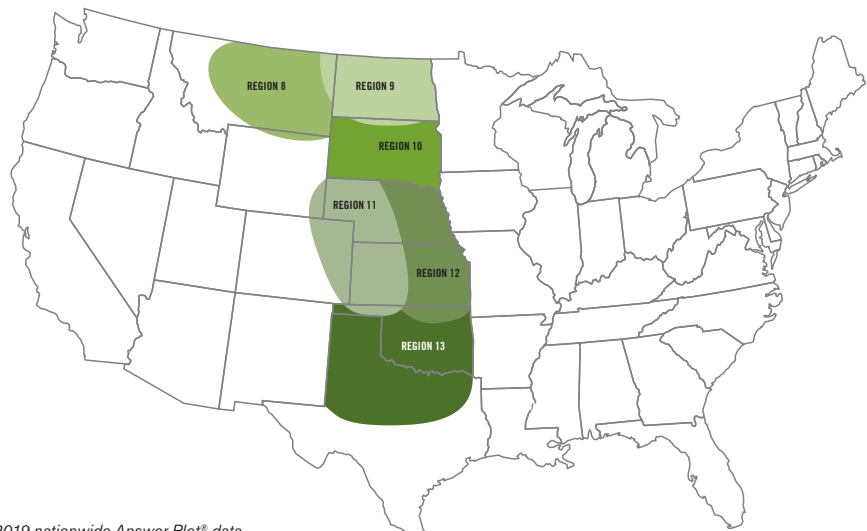
## REVOLUTIONARY GRASSY WEED CONTROL

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

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

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

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



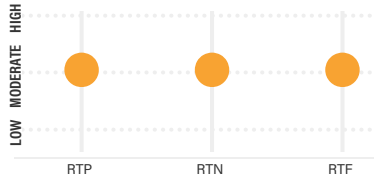
1. 2019 nationwide Answer Plot® data.

NEW

### CROPLAN CP7220

Hard Red Winter

#### Response Scores



#### Characteristics

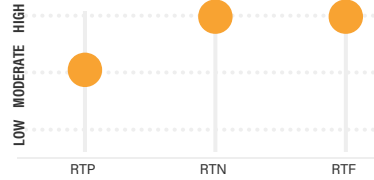
|                      | Not Recommended |  |  |   |  | Excellent |  |  |  |   |
|----------------------|-----------------|--|--|---|--|-----------|--|--|--|---|
| Standability         |                 |  |  |   |  |           |  |  |  |   |
| Fusarium Head Blight |                 |  |  | 3 |  |  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

- Broadly adapted for Northern Neb. through Dakotas and into Mont.
- Very good standability and stress tolerance allows for placement from high to low yield potential acres
- Strong baking qualities
- Fungicide recommended in areas with Leaf and Stripe Rust

### CROPLAN CP7909

Hard Red Winter

#### Response Scores



#### Characteristics

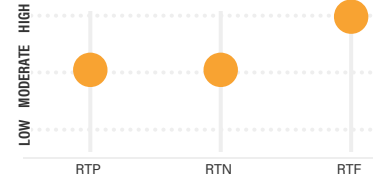
|                      | Not Recommended |  |  |   |  | Excellent |  |  |  |   |
|----------------------|-----------------|--|--|---|--|-----------|--|--|--|---|
| Standability         |                 |  |  |   |  |           |  |  |  |   |
| Fusarium Head Blight |                 |  |  | 4 |  |           |  |  |  |   |
| Test Weight          |                 |  |  |   |  |           |  |  |  | 1 |
| Protein              |                 |  |  |   |  |           |  |  |  | 2 |
| Winterhardiness      |                 |  |  |   |  |           |  |  |  | 1 |

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

### CROPLAN CP7869

Hard Red Winter

#### Response Scores



#### Characteristics

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

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

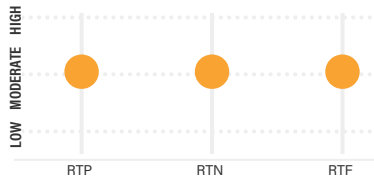
NEW

### CROPLAN CP7266AX

Hard Red Winter



#### Response Scores



#### Characteristics

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

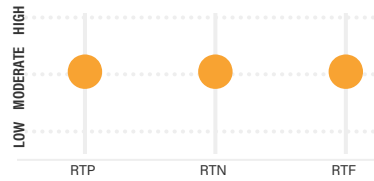
- Excellent yield potential in a medium maturity product
- Very good standability for more productive acres
- Great fit for lower-yielding environments, but still has top-end yield potential
- Responds well to increased nitrogen and population on offensive acres

### CROPLAN CP7017AX

Hard Red Winter



#### Response Scores



#### Characteristics

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

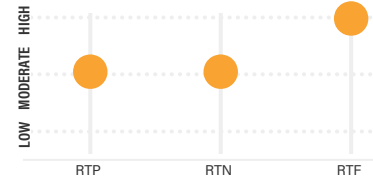
- Medium maturity CoAXium® variety with excellent yield potential
- Resistant to soilborne mosaic virus; strong tolerance to tough soils and lower pH
- Broadly adapted for high yield potential across multiple environments
- Responds well to increased nitrogen and population on offensive acres

### CROPLAN CP7050AX

Hard Red Winter



#### Response Scores



#### Characteristics

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

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

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

Product descriptions and ratings are generated from Answer Plot® trials and/or from the genetics supplier and may change as additional data is gathered.



# HARD RED WINTER WHEAT

**CROPLAN**

| Wheat Class           | Regions of Adaptation | Maturity <b>1</b>    | Height <b>2</b> | Test Weight | Standability | Winterhardness | Protein | Leaf Rust | Stripe Rust | Septoria Leaf Resistance | Powdery Mildew | Stagonospora Resistance | Leaf Disease | Barley Yellow Blotch | Fusarium Head Blight | Hessian Fly Resistance | Wheat Stem Sawfly | Response to Population (RTP) <b>3</b> | Response to Irrigation | Response to Nitrogen (RTN) <b>3</b> | Response to Fungicide (RTF) <b>3</b> |   |
|-----------------------|-----------------------|----------------------|-----------------|-------------|--------------|----------------|---------|-----------|-------------|--------------------------|----------------|-------------------------|--------------|----------------------|----------------------|------------------------|-------------------|---------------------------------------|------------------------|-------------------------------------|--------------------------------------|---|
| <b>NEW</b> CP1220     | Hard Red              | 8, 9, 10, 11, 12, 13 | 3               | M           | 1            | 2              | Y       | 2         | 2           | 4                        | 3              | 4                       | NA           | 3                    | NA                   | 3                      | NA                | NA                                    | NA                     | 1                                   | M                                    | M |
| CP1909                | 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 |
| CP1869                | 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 |
| <b>COAXIUM® WHEAT</b> |                       |                      |                 |             |              |                |         |           |             |                          |                |                         |              |                      |                      |                        |                   |                                       |                        |                                     |                                      |   |
| <b>NEW</b> CP1266AX   | 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 |
| CP1017AX              | 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 |
| CP1050AX              | 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 |

## KEY Scale

- 1 = Excellent
- 2 = Strong
- 3 = Acceptable
- 4 = Manage
- 5 = Not Recommended

Product descriptions and ratings are generated from Answer Pkg® trials and/or from the genetics supplier and may change as additional data is gathered.

## 1 Maturity

- 1 = Early
- 5 = Late

## 2 Height

- S = Short
- M = Medium
- T = Tall

## 3 RTP/RTN/RTF Ratings

- L = Low Response
- M = Moderate Response
- H = High Response

The comparison ratings are with CROPLAN® wheats only. These ratings reflect trends observed in research trials, which will change based on various factors, including variations in rainfall, temperature and production patterns.



## SOFT RED WINTER WHEAT

# Confident in Our Wheat Know-How Because That's What 20+ Years Brings.

## Optimize Seed ROI

To achieve farm topping yield potential, you need to do many things right. And that starts with CROPLAN® varieties.

This is seed that puts you on the path to maximizing ROI potential on each acre, beginning with exceptionally high performing genetics. But even bigger advantages come with the data and intelligence we build on top of these revolutionary wheat varieties.

### **NEW ANSWER PLOT® RESEARCH PROVIDES NITROGEN AND FUNGICIDE RESPONSE DATA FOR CROPLAN WHEAT VARIETIES.**

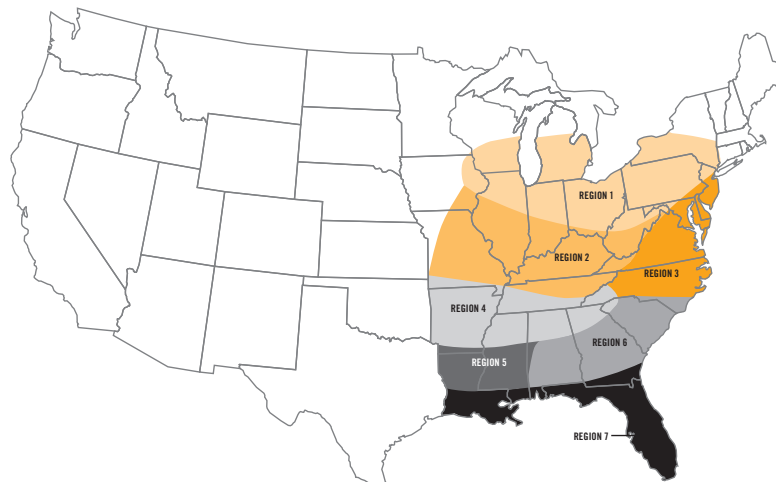
That means you can fine tune management and increase yield potential in the most economically efficient manner.

- There's a 7.2bu/A average yield response advantage<sup>1</sup> when varieties are managed according to their Response to Nitrogen (RTN).
- Then, there's a 10.5bu/A average yield response advantage<sup>1</sup> when varieties are managed according to their Response to Fungicide (RTF).

### **EACH VARIETY IS DIFFERENT, AND THEIR AGRONOMIC REQUIREMENTS ARE, TOO.**

Putting every product into the same environment won't maximize your ROI. Instead, give each variety what it needs when it needs it. And just as importantly, eliminate actions that don't provide the yield and revenue impact you desire.

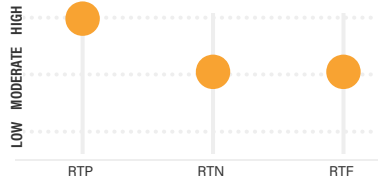
Only CROPLAN provides this level of intelligence. And you can only find CROPLAN varieties at the best retailers in America.



1. 2019 Answer Plot® data.

**CROPLAN CP9606**

Soft Red Winter

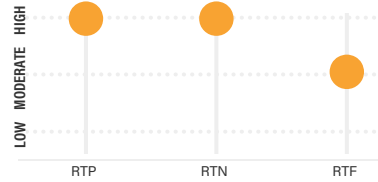
**Response Scores****Characteristics**

|                      | Not Recommended |   |   | Excellent |   |
|----------------------|-----------------|---|---|-----------|---|
| Standability         | 2               | 2 | 2 | 1         | 1 |
| Fusarium Head Blight | 2               | 2 | 2 | 2         | 2 |
| Test Weight          | 2               | 2 | 3 | 2         | 2 |
| Winterhardiness      | 2               | 2 | 2 | 2         | 2 |

- Outstanding yield potential; unique wheat
- Native tolerance to fusarium head blight; good broad-spectrum disease-resistance package
- Excellent stripe rust resistance and standability
- Responds well to increased population

**CROPLAN CP9415**

Soft Red Winter

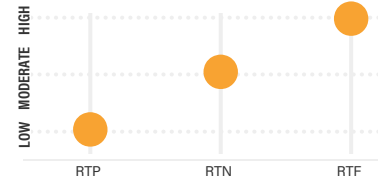
**Response Scores****Characteristics**

|                      | Not Recommended |   |   | Excellent |   |
|----------------------|-----------------|---|---|-----------|---|
| Standability         | 2               | 2 | 2 | 1         | 1 |
| Fusarium Head Blight | 2               | 2 | 3 | 2         | 2 |
| Test Weight          | 2               | 2 | 3 | 2         | 2 |
| Winterhardiness      | 2               | 2 | 2 | 1         | 1 |

- Excellent yield potential in highly productive environments
- Responds well to nitrogen; exceptional standability
- Strong disease-tolerance package
- Medium height; fits well in double-crop system

**CROPLAN CP9203**

Soft Red Winter

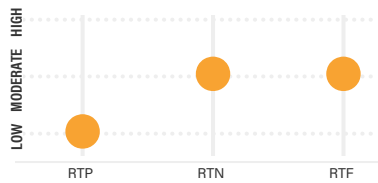
**Response Scores****Characteristics**

|                      | Not Recommended |   |   | Excellent |   |
|----------------------|-----------------|---|---|-----------|---|
| Standability         | 2               | 2 | 2 | 2         | 2 |
| Fusarium Head Blight | 2               | 2 | 2 | 2         | 2 |
| Test Weight          | 2               | 2 | 2 | 1         | 1 |
| Winterhardiness      | 2               | 2 | 2 | 2         | 2 |

- High yield potential and excellent test weight
- Broad adaptation over a variety of soils and management regimes
- Native tolerance to fusarium head blight
- Smooth head and height make it a good straw choice

**CROPLAN CP8081**

Soft Red Winter

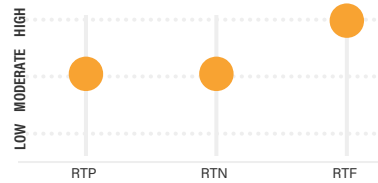
**Response Scores****Characteristics**

|                      | Not Recommended |   |   | Excellent |   |
|----------------------|-----------------|---|---|-----------|---|
| Standability         | 2               | 2 | 2 | 1         | 1 |
| Fusarium Head Blight | 2               | 2 | 2 | 2         | 2 |
| Test Weight          | 2               | 2 | 2 | 2         | 2 |
| Winterhardiness      | 2               | 2 | 2 | 2         | 2 |

- Outstanding yield potential; broadly adapted over a variety of soils and management regimes
- Early-medium maturity with excellent winterhardiness; very good standability
- Native tolerance to fusarium head blight
- Excellent test weight; good broad-spectrum disease-resistance package

**CROPLAN CP8022**

Soft Red Winter

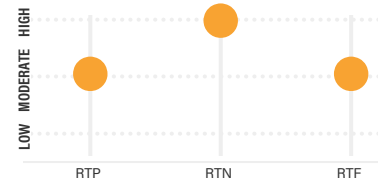
**Response Scores****Characteristics**

|                      | Not Recommended |   |   | Excellent |   |
|----------------------|-----------------|---|---|-----------|---|
| Standability         | 2               | 2 | 2 | 2         | 2 |
| Fusarium Head Blight | 2               | 2 | 2 | 1         | 1 |
| Test Weight          | 2               | 2 | 2 | 2         | 2 |
| Winterhardiness      | 2               | 2 | 2 | 1         | 1 |

- Excellent yield potential in highly productive environments
- State-of-the-art fusarium head blight resistance
- Excellent test weight and stripe rust resistance
- Plant on time to encourage tilling

**CROPLAN CP8007**

Soft Red Winter

**Response Scores****Characteristics**

|                      | Not Recommended |   |   | Excellent |   |
|----------------------|-----------------|---|---|-----------|---|
| Standability         | 2               | 2 | 2 | 2         | 1 |
| Fusarium Head Blight | 2               | 2 | 3 | 2         | 2 |
| Test Weight          | 2               | 2 | 3 | 2         | 2 |
| Winterhardiness      | 2               | 2 | 2 | 2         | 2 |

- Outstanding yield potential
- Very stiff and short straw that can handle high N-rates
- Strong test weight
- Best performance in northern regions

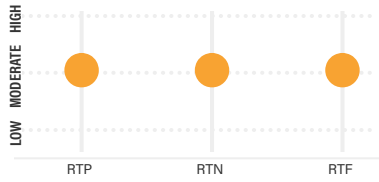
**KEY** Scale  
 1 = Excellent  
 2 = Strong  
 3 = Acceptable  
 4 = Manage  
 5 = Not Recommended

Product descriptions and ratings are generated from Answer Plot® trials and/or from the genetics supplier and may change as additional data is gathered.

**CROPLAN CP8045**

Soft Red Winter

**Response Scores**



**Characteristics**

|                      | Not Recommended | Excellent |
|----------------------|-----------------|-----------|
| Standability         | 2               | 2         |
| Fusarium Head Blight | 2               | 2         |
| Test Weight          | 3               | 1         |
| Winterhardiness      | 1               | 1         |

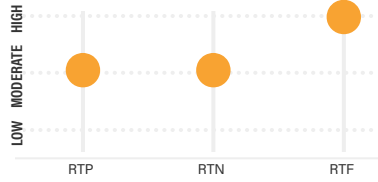
- Outstanding yield potential; broadly adapted over a variety of soils
- Strong disease-tolerance package

**NEW**

**CROPLAN CP8224**

Soft Red Winter

**Response Scores**



**Characteristics**

|                      | Not Recommended | Excellent |
|----------------------|-----------------|-----------|
| Standability         | 2               | 1         |
| Fusarium Head Blight | 2               | 2         |
| Test Weight          | 1               | 1         |
| Winterhardiness      | 1               | 1         |

- Exciting new variety to replace CP9203
- Excellent test weight and winterhardiness
- Awnless variety with excellent standability
- Acceptable Septoria and powdery mildew tolerance

**KEY** Scale  
 1 = Excellent  
 2 = Strong  
 3 = Acceptable  
 4 = Manage  
 5 = Not Recommended

Product descriptions and ratings are generated from Answer Plot® trials and/or from the genetics supplier and may change as additional data is gathered.

# SOFT RED WINTER WHEAT

CROPLAN

| VARIETY           | Wheat Class | Regions of Adaptation | Maturity 1 | Height 2 | Test Weight | Standability | Seed Size Range (Seeds/Lb) | Avns          | Response to Population [RTP] | Winterhardiness | Response to Nitrogen [RTN] | Response to Fungicide [RTF] | Leaf Rust 3 | Stripe Rust | Septoria Leaf Resistance | Powdery Mildew | Leaf Disease | Stagonospora Blume Blotch | Barley Yellow Blotch | Fusarium Head Blight | Hessian Fly Resistance | Placement on Irrigation |                    |
|-------------------|-------------|-----------------------|------------|----------|-------------|--------------|----------------------------|---------------|------------------------------|-----------------|----------------------------|-----------------------------|-------------|-------------|--------------------------|----------------|--------------|---------------------------|----------------------|----------------------|------------------------|-------------------------|--------------------|
| CP9606            | Soft Red    | 1, 2, 3, 4            | 3          | MS       | 3           | 1            | Y                          | 11,000-14,000 | 2                            | H               | M                          | M                           | 2           | 1           | 3                        | 3              | 3            | NA                        | 3                    | 2                    | 2                      | 2                       | Biotype B, D, L, 0 |
| CP9415            | Soft Red    | 1, 2, 3, 4            | 4          | MS       | 3           | 1            | Y                          | 10,000-12,000 | 1                            | H               | H                          | M                           | 1           | 2           | 3                        | 2              | 2            | NA                        | 1                    | 3                    | 3                      | 3                       | Biotype B, D, L, 0 |
| CP9203            | Soft Red    | 1, 2                  | 3          | MS       | 1           | 2            | N                          | 10,000-13,000 | 2                            | L               | M                          | H                           | 2           | 1           | 5                        | 4              | 4            | NA                        | 2                    | 2                    | 2                      | 2                       | Biotype L          |
| CP8081            | Soft Red    | 1, 2, 3, 4            | 1          | M        | 2           | 1            | Y                          | 11,000-14,000 | 2                            | L               | M                          | M                           | 1           | 2           | 4                        | 2              | 2            | NA                        | 2                    | 1                    | 1                      | 2                       | Biotype B, D, L, 0 |
| CP8022            | Soft Red    | 1, 2, 3, 4            | 3          | MS       | 2           | 2            | Y                          | 11,000-14,000 | 1                            | M               | M                          | H                           | 3           | 1           | 4                        | 2              | 2            | NA                        | 2                    | 1                    | 1                      | 1                       | Native tol.        |
| CP8007            | Soft Red    | 1, 2                  | 4          | S        | 3           | 1            | N                          | 11,000-14,000 | 2                            | M               | H                          | M                           | 2           | 2           | 2                        | 2              | 4            | NA                        | 2                    | NA                   | 3                      | 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              | 2            | NA                        | 2                    | NA                   | 2                      | NA                      |                    |
| <b>NEW</b> CP8224 | Soft Red    | 1,2,3,4               | 3          | M        | 1           | 1            | N                          | 12,000-14,000 | 1                            | M               | M                          | H                           | 1           | 1           | 1                        | 2              | 3            | NA                        | NA                   | NA                   | 2                      | NA                      |                    |

## KEY Scale

- 1 = Excellent
- 2 = Strong
- 3 = Acceptable
- 4 = Manage
- 5 = Not Recommended

Product descriptions and ratings are generated from Answer Pkg<sup>®</sup> 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<sup>®</sup> 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.

# TECHNOLOGY

## PROPER MANAGEMENT PROTECTS TECHNOLOGY'S VALUE

Sound management practices and compliance with stewardship requirements will help protect the benefits and value of biotech trait seed technology for future generations.

## INSECT RESISTANCE MANAGEMENT

Insect-protected crops are genetically improved to provide in-plant protection against selected insect pests. Beneficial insects are not affected. To preserve the benefits and insect protection of these technology crops, Bayer CropScience, Syngenta Crop Protection and Corteva Agriscience have developed IRM guidelines that must be incorporated by everyone purchasing and planting insect-protected crops.



**Verification Required** The last patent on the original Roundup Ready® soybean trait expired a few years ago and U.S. farmers may legally plant saved seed from some varieties of soybean containing the Roundup Ready® soybean trait. However, it is important that you check with your seed supplier to determine if a specific Roundup Ready® soybean variety is covered by other intellectual property rights, and if so, the policy for saving seed of that variety.

**Higher Seeding Rate** A higher seeding rate may be required for bin-run Roundup Ready® soybeans compared to new branded seed.

**Yield Loss** Roundup Ready 2 Yield® soybean, Roundup Ready 2 Xtend® soybean, and XtendFlex® soybean varieties typically have a higher yield opportunity than Roundup Ready® soybean varieties.

**Cleanout Loss** Loss of seed and/or shrink occurs during the seed cleaning and handling processes for bin-run seed.

**Seed Treatment Costs** Treating your seed will add costs—both the cost of the treatment and the application of that treatment.

**Lost Income** Every bushel of saved seed you plant is a bushel you're not selling as commodity grain.

**Increased Seed Management** If you plan to save and bin-run Roundup Ready® soybeans for planting, you will have to manage your harvest operations and grain storage so that the seed isn't co-mingled with other seed that's covered by intellectual property rights.

## High Value of New Branded Seed

### Latest Technology

- // High-yielding soybean technologies
- // Better variety options
- // Leading seed treatment options

### Customer Service

- // Dealer agronomic support before and after the sale
- // Replant policy support
- // Convenient packaging and delivery

### Reliable Germination and Quality

- // Rigorously tested and meets U.S. Federal Seed Act requirements
- // Free of seed-borne diseases
- // Properly stored and conditioned

For a list of Bayer's trait patents go to [cs.bayerpatents.bayer.com](http://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](http://cropscience.bayer.us/contact) or scan the QR code



Bayer is a member of the Seed Innovation and Protection Alliance. Visit [www.seedipalliance.com](http://www.seedipalliance.com) to learn more. SIPA™ is a trademark of the Seed Innovation and Protection Alliance.

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**ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS.** It is a violation of federal and state law to use any pesticide product other than in accordance with its labeling. NOT ALL formulations of dicamba or glyphosate are approved for in-crop use with Roundup Ready 2 Xtend® soybeans. NOT ALL formulations of dicamba, glyphosate or glufosinate are approved for in-crop use with products with XtendFlex® Technology. ONLY USE FORMULATIONS THAT ARE SPECIFICALLY LABELED FOR SUCH USES AND APPROVED FOR SUCH USE IN THE STATE OF APPLICATION. Contact the U.S. EPA and your state pesticide regulatory agency with any questions about the approval status of dicamba herbicide products for in-crop use with Roundup Ready 2 Xtend® soybeans or products with XtendFlex® Technology.

Roundup Ready® Technology contains genes that confer tolerance to glyphosate. Roundup Ready® 2 Technology contains genes that confer tolerance to glyphosate. Roundup Ready 2 Xtend® soybeans contain genes that confer tolerance to glyphosate and dicamba. Products with XtendFlex® Technology contain genes that confer tolerance to glyphosate, glufosinate and dicamba. Glyphosate will kill crops that are not tolerant to glyphosate. Dicamba will kill crops that are not tolerant to dicamba. Glufosinate will kill crops that are not tolerant to glufosinate. Contact your seed brand dealer or refer to the Bayer Technology Use Guide for recommended weed control programs.

Contact your Bayer retailer, refer to the Bayer Technology Use Guide, or call the technical support line at 1-888-283-6847 for recommended Roundup Ready® Xtend Crop System weed control programs.

Bayer, Bayer Cross, Roundup Ready 2 Xtend®, Roundup Ready 2 Yield®, Roundup Ready®, and XtendFlex® are registered trademarks of Bayer Group. LibertyLink® and the Water Droplet Design® is a trademark of BASF Corporation. ©2022 Bayer Group. All rights reserved.

Rev 01/2022

Roundup Ready 2 Yield® soybeans and Roundup Ready 2 Xtend® soybeans are covered by different patents than original Roundup Ready® soybeans and cannot be saved and planted. For more information about seed innovation and intellectual property protection, please visit [www.seedipalliance.com](http://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.

CROPLAN

## CORN INSECT RESISTANCE MANAGEMENT OVERVIEW<sup>1</sup>

### QUICK COMPLIANCE GUIDE FOR DEALERS AND FARMERS

#### 1 REFUGE SIZE

Plant the correct size refuge for the area and corn product.

##### ► The Corn-Growing Area

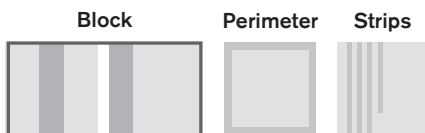
- 20% required for some B.t. products (20 acres of refuge for every 80 acres of B.t.)
- 5% only for SmartStax<sup>®</sup>, Trecepta<sup>®</sup> and VT Double PRO<sup>®</sup> (5 acres of refuge for every 95 acres of B.t.)

##### ► The Cotton-Growing Area

- 20% only for SmartStax<sup>®</sup> and VT Double PRO<sup>®</sup> (20 acres of refuge for every 80 acres of B.t.)

#### 2 REFUGE LOCATION

Plant the required refuge within each field that contains B.t. insect-protected corn. There are other options, but an in-field refuge is always accepted. The refuge should always be a minimum of four contiguous rows wide.



#### 3 REFUGE PLANTING

In each field, plant your refuge first before planting any insect-protected corn. This will ensure that the minimum refuge size requirement is met should unforeseen circumstances (e.g., adverse weather) alter your planting schedule and strategy. Use a refuge product that contains no B.t. insect-protection traits (e.g., Roundup Ready<sup>®</sup> or conventional corn are acceptable). Growers must read the IRM/Grower Guide for complete refuge planting requirements.

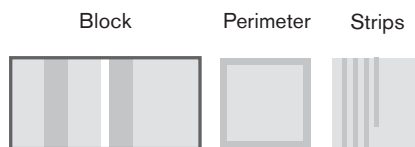
#### 4 TREATMENT

If you need to treat your refuge with a non-B.t. foliar insecticide, you may have to treat the B.t. technology in a similar manner. Growers must read the IRM/Grower Guide for complete treatment options.

#### COMMON REFUGE CONFIGURATIONS



##### ► In-Field Configuration Examples



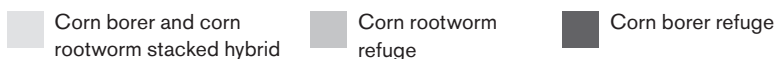
Minimum of four rows

##### ► Adjacent-Field Configuration Examples



Separated by road, path, ditch, etc., but not by another field

#### SEPARATE REFUGE CONFIGURATIONS



##### ► Block



← ≤ 1/2 mile

← ≤ 1/2 mile

##### ► Perimeter



← ≤ 1/2 mile

← ≤ 1/2 mile

1. Provided as a summary only. Farmers must read the IRM/Grower Guide prior to planting for important information on planting and insect resistance management.

2. Traited = B.t., RW or B.t./RW.

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.



## REFUGE REQUIREMENTS FOR BIOTECH CORN PRODUCTS<sup>1, 2</sup>

|  | % NON-B.T. REFUGE                                       | CONFIGURATIONS                        | REFUGE LOCATION   |
|--|---|---------------------------------------|---|
| <b>SMARTSTAX® RIB COMPLETE® CORN BLEND<sup>3</sup></b>                               | 5% in the bag   | —                                     | No separate planted refuge is required  |
| <b>VT DOUBLE PRO® RIB COMPLETE® CORN BLEND<sup>3</sup></b>                           | 5% in the bag   | —                                     | No separate planted refuge is required  |
| <b>DROUGHTGARD® HYBRIDS WITH VT DOUBLE PRO® RIB COMPLETE® CORN BLEND<sup>3</sup></b> | 5% in the bag   | —                                     | No separate planted refuge is required  |
| <b>TRECEPTA® RIB COMPLETE® CORN BLEND</b>  | 5% in the bag   | —                                     | No separate planted refuge is required  |
| <b>SMARTSTAX® CORN</b>   | 5% corn-growing areas;<br>20% cotton-growing areas      | Block, Perimeter,<br>Strips, Adjacent | Within or adjacent to SmartStax® field; if adjacent, may be separated by a road, path, ditch, etc., but not another field             |
| <b>VT DOUBLE PRO® CORN</b>   | 5% corn-growing areas;<br>20% cotton-growing areas      | Block, Perimeter,<br>Strips, Adjacent | Within, adjacent to or within 1/2 mile from VT Double PRO® field  |
| <b>AGRISURE® TOTAL</b>   | 5% in the bag,<br>20% supplemental cotton-growing areas | Block, Perimeter,<br>Strips, Adjacent | Within or adjacent to Agrisure® Total   |
| <b>VIPTERA™</b>  | 5% in the bag<br>20% supplemental cotton-growing areas  | Block, Perimeter,<br>Strips, Adjacent | Within, adjacent to or within 1/2 mile away from Viptera™ field   |
| <b>DURACADE™</b>   | 5% in the bag<br>20% supplemental cotton-growing areas  | Block, Perimeter,<br>Strips, Adjacent | Within or adjacent to Duracade™ field   |
| <b>AGRISURE VIPTERA® 3111</b>  | 20% corn- and cotton-growing areas                      | Block, Perimeter,<br>Strips, Adjacent | Within or adjacent to Agrisure Viptera® 3111 field; if adjacent, may be separated by a road, path, ditch, etc., but not another field |
| <b>AGRISURE® 3000GT</b>  | 20% corn-growing areas;<br>50% cotton-growing areas     | Block, Perimeter,<br>Strips, Adjacent | Within or adjacent to Agrisure® 3000GT field; if adjacent, may be separated by a road, path, ditch, etc., but not another field       |
| <b>HERCULEX® XTRA INSECT PROTECTION</b>  | 20% corn-growing areas;<br>50% cotton-growing areas     | Block, Perimeter,<br>Strips, Adjacent | Within or adjacent to Herculex® XTRA field; if adjacent, may be separated by a road, path, ditch, etc., but not another field         |
| <b>HERCULEX® I INSECT PROTECTION</b>   | 20% corn-growing areas<br>50% cotton-growing areas      | Block, Perimeter,<br>Strips, Adjacent | Within, adjacent to or within 1/2 mile from Herculex® field   |

1. All refuge configurations require a minimum of four rows.

2. Provided as a summary only. Farmers must read the IRM/Grower Guide prior to planting.

3. SmartStax® RIB Complete®, Trecepta® RIB Complete®, VT Double PRO® RIB Complete® and DroughtGard® Hybrids with VT Double PRO® RIB Complete® corn blends are each a blend of 95% traited seed and 5% refuge seed interspersed in the bag and do not require a separate structured refuge in corn-growing areas.

For more detailed refuge requirements please visit: <https://traits.bayer.com/stewardship/Pages/Insect-Resistance-Management.aspx>

Corn trait technology incorporated into these seeds is commercialized under license from Syngenta Seeds, LLC. Herculex® Technology incorporated into these seeds is commercialized under license from Corteva Agriscience LLC. HERCULEX® and the HERCULEX Shield are trademarks of Corteva Agriscience 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, 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 Excellence Through Stewardship.

**Forage Genetics International, LLC ("FGI") is a member of Excellence Through Stewardship® (ETS).** FGI products are commercialized in accordance with ETS Product Launch Stewardship Guidance, and in compliance with FGI's Policy for Commercialization of Biotechnology-Derived Plant Products in Commodity Crops. Any crop or material produced from this product can only be exported to, or used, processed or sold only in countries where all necessary regulatory approvals have been granted. It is a violation of national and international law to move material containing biotechnology traits across boundaries into nations where import is not permitted. Growers should talk to their grain handler or product purchaser to confirm their buying position for this product. Growers should refer to biotradestatus.com for any updated information on import country approvals. Excellence Through Stewardship® is a registered trademark of Excellence Through Stewardship.

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## INSECT RESISTANCE MANAGEMENT

**IMPORTANT IRM INFORMATION: Always read and follow IRM requirements.** Insect-protected crops are genetically improved to provide in-plant protection against selected insect pests. Beneficial insects are not affected. To preserve the benefits and insect protection of these technology crops, Bayer, Syngenta Crop Protection and Dow AgroSciences have developed insect resistance management (IRM) guidelines that must be incorporated by everyone purchasing and planting insect-protected crops.

**ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS.** It is a violation of federal and state law to use any pesticide product other than in accordance with its labeling. NOT ALL formulations of dicamba or glyphosate are approved for in-crop use with Roundup Ready 2 Xtend® soybeans. NOT ALL formulations of dicamba, glyphosate or glufosinate are approved for in-crop use with products with XtendFlex® Technology. ONLY USE FORMULATIONS THAT ARE SPECIFICALLY LABELED FOR SUCH USES AND APPROVED FOR SUCH USE IN THE STATE OF APPLICATION. Contact the U.S. EPA and your state pesticide regulatory agency with any questions about the approval status of dicamba herbicide products for in-crop use with Roundup Ready 2 Xtend® soybeans or products with XtendFlex® Technology.

**B.t.** products may not yet be registered in all states. Check with your seed brand representative for the registration status in your state.

**IMPORTANT IRM INFORMATION: RIB Complete®** corn blend products do not require the planting of a structured refuge **except** in the Cotton-Growing Area where corn earworm is a significant pest. **See the IRM/Grower Guide for additional information. Always read and follow IRM requirements.**

**Roundup Ready® Technology** contains genes that confer tolerance to glyphosate. **Roundup Ready® 2 Technology** contains genes that confer tolerance to glyphosate. **Roundup Ready 2 Xtend® soybeans contain genes that confer tolerance to glyphosate and dicamba. Products with XtendFlex® Technology contain genes that confer tolerance to glyphosate, glufosinate and dicamba.** **Glyphosate** will kill crops that are not tolerant to glyphosate. **Dicamba** will kill crops that are not tolerant to dicamba. **Glufosinate** will kill crops that are not tolerant to glufosinate. Contact your seed brand dealer or refer to the Bayer Technology Use Guide for recommended weed control programs.

Insect control technology provided by **Vip3A** is utilized under license from Syngenta Crop Protection AG. **Herculex®** is a registered trademark of Dow AgroSciences LLC. **Agrisure Viptera®** is a registered trademark of a Syngenta group company. **LibertyLink®** and the **Water Droplet Design®** is a trademark of BASF Corporation. **Respect the Refuge** and **Corn Design®** and **Respect the Refuge®** are registered trademarks of National Corn Growers Association. **Acceleron®, DroughtGard®, RIB Complete®, Roundup Ready 2 Technology and Design™, Roundup Ready 2 Xtend®, Roundup Ready 2 Yield®, Roundup Ready®, SmartStax®, Trecepta®, TruFlex™, VT Double PRO® and XtendFlex®** are trademarks of Bayer Group.

**Important: Always read and follow label and bag tag instructions; only those labeled as tolerant to glufosinate may be sprayed with glufosinate ammonium based herbicides.**

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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, 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](http://www.corteva.us/Resources/trait-stewardship.html). To plant **Enlist, Herculex and PowerCore** seed, you must have a limited license from Corteva Agriscience. In consideration of the foregoing, Corteva Agriscience grants to the Grower the limited license to use its technology to produce only a single commercial crop in the United States under the terms and conditions set forth in the Technology Use Agreement in effect at the time of planting of this seed.

**ALWAYS READ AND FOLLOW HERBICIDE LABEL DIRECTIONS PRIOR TO USE:** **Enlist®** products contain the **Enlist** trait that provides crop safety for use of labeled over-the-top applications of glyphosate, glufosinate and 2,4-D herbicides featuring **Colex-D®** technology when applied according to label directions. Following burndown, the only 2,4-D containing herbicide products that may be used with **Enlist™** crops are products that feature **Colex-D** technology and are expressly labeled for use on **Enlist** crops. 2,4-D products that do not contain **Colex-D** technology are not authorized for use in conjunction with **Enlist** products. **Enlist** corn contains genes that confer tolerance to 2,4-D and -fop herbicides. 2,4-D and -fop herbicides will damage or kill crops that are not tolerant to 2,4-D or -fops.

**IRM** - Properly managing trait technology is key to preserving it as a long-term crop protection tool.



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.



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](http://www.corteva.us/Resources/trait-stewardship.html) to download the latest Corteva Agriscience Corn Product Use Guide.

Enlist E3<sup>®</sup> soybean seeds containing the Enlist<sup>®</sup> trait can only be used to plant a single commercial crop. It is unlawful to save and replant Enlist E3<sup>®</sup> soybeans. Additional information and limitations on the use of these products are provided in the Corteva Agriscience Technology Use Agreement and Enlist<sup>®</sup> 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](http://www.corteva.us/Resources/trait-stewardship.html).

Enlist Duo<sup>®</sup> and Enlist One<sup>®</sup> herbicides are not registered for sale or use in all states or counties. Contact your state pesticide regulatory agency to determine if a product is registered for sale or use in your area. Enlist Duo and Enlist One are the only 2,4-D products authorized for use with Enlist crops. Consult Enlist herbicide labels for weed species controlled. Always read and follow label directions. Enlist E3<sup>®</sup> soybeans were jointly developed by Corteva Agriscience and MS Technologies, LLC. Enlist, Enlist E3, the Enlist E3 logo, and Colex-D are trademarks of Corteva Agriscience. PowerCore<sup>®</sup> multi-event technology developed by Corteva Agriscience and Monsanto. Roundup<sup>®</sup>, Roundup Ready<sup>®</sup>, Roundup Ready 2 Technology and Design, and PowerCore<sup>®</sup> are registered trademarks of Monsanto Technology LLC. Liberty Link<sup>®</sup> and the Water Droplet Design<sup>®</sup> are registered trademarks of BASF. Enlist<sup>®</sup> and Colex-D<sup>®</sup> are trademarks of Corteva Agriscience and its affiliated companies. Excellence Through Stewardship is a registered trademark of Excellence Through Stewardship.

## GENERAL DISCLAIMERS

Performance may vary from location to location and from year to year, as local growing, soil and weather conditions may vary. Growers should evaluate data from multiple locations and years whenever possible and should consider the impacts of these conditions on the growers' fields.

**Important: Always read and follow label instructions. Some products may not be registered for sale or use in all states or counties. Please check with your local extension service to ensure registration status.**

## SOYBEAN AND CANOLA PIRACY

Seed containing a patented trait can only be used to plant a single commercial crop. It is unlawful to save and replant seed from that crop. Examples of seed containing a patented trait include but are not limited to Roundup Ready 2 Yield<sup>®</sup> soybeans, Roundup Ready 2 Xtend<sup>®</sup> soybeans, XtendFlex<sup>®</sup> soybeans, Roundup Ready<sup>®</sup> spring canola, Roundup Ready<sup>®</sup> winter canola, and TruFlex<sup>®</sup> canola with Roundup Ready<sup>®</sup> Technology. Additional information and limitations on the use of these products are provided in the Technology Stewardship Agreement and the Bayer Technology Use Guide: [tug.bayer.com](http://tug.bayer.com). U.S. patents for Bayer technologies can be found at the following webpage: [cs.bayerpatents.bayer.com](http://cs.bayerpatents.bayer.com)

## ALFALFA

HarvXtra<sup>®</sup> Alfalfa with Roundup Ready<sup>®</sup> Technology: Purchase and use of HarvXtra<sup>®</sup> Alfalfa with Roundup Ready<sup>®</sup> 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<sup>®</sup> Alfalfa with Roundup Ready<sup>®</sup> Technology in Imperial County, California, pending import approval and until Forage Genetics International, LLC (FGI) grants express permission for such planting. HarvXtra<sup>®</sup> Alfalfa with Roundup Ready<sup>®</sup> Technology has pending import approvals. **GROWERS MUST DIRECT ANY PRODUCT PRODUCED FROM HARVXTRA<sup>®</sup> ALFALFA WITH ROUNDUP READY<sup>®</sup> 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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