Let’s leave status quo in the dust.

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

**KEY TAKEAWAYS**

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

**RESPONSE-TO SCORES DELIVER RESULTS YOU CAN HARVEST**

Nine years of nationwide Answer Plot® data show that there is a +97.6-bushel-per-acre average response over the four different response-to-scores (response to continuous corn, response to population, response to nitrogen, response to fungicide). By using response-to-scores to choose hybrids that fit specific management conditions, there are potentially 97.6 bushels per acre at stake, with a range of 43 to 203.9 bushels per acre across the four input decisions.

- **Response to Cont. Corn**
  - High: 14.4 bu/A
  - Low: 8.5 bu/A
  - Range: 5.6 to 31.7 bu/A

- **Response to Nitrogen**
  - High: 66.7 bu/A
  - Low: 14.3 bu/A
  - Range: 30.8 to 104.9 bu/A

- **Response to Fungicide**
  - High: 7.3 bu/A
  - Low: 4.5 bu/A
  - Range: 0.84 to 21.9 bu/A

**MAKE CONTINUOUS CORN COUNT**

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

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

**TARGET POPULATIONS**

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

- **RTP Yield Response Variance — 11.7 bu/A**
  - High-RTP Hybrid: 15.7 bu/A
  - Low-RTP Hybrid: 4 bu/A
  - Range: 5.6 to 11.7 bu/A

**LEVERAGE FUNGICIDES FOR PLANT HEALTH**

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

- **RTF Yield Response Variance — 19 bu/A**
  - High-RTF Hybrid: 26.3 bu/A
  - Low-RTF Hybrid: 7.3 bu/A

**TURN DATA INTO INSIGHTS**

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

- More Than 6 Million Data Points
- 20-Plus Years of Answer Plot® Expertise
- Nationwide Answer Plot® Locations
- Exceptional Data Accuracy (low LSDs)

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

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

- **RTCC Average Response — 14.4 bu/A**

- **RTN Yield Response Variance — 26.1 bu/A**

- **RTP Yield Response Variance — 11.7 bu/A**

- **RTF Yield Response Variance — 19 bu/A**
Descriptive hybrid numbering and trait lettering systems are used for CROPLAN® corn hybrids.

<table>
<thead>
<tr>
<th>KEY</th>
<th>HYBRID</th>
<th>TRAIT</th>
<th>LOGO</th>
</tr>
</thead>
<tbody>
<tr>
<td>SS</td>
<td>SmartStax®; GENSS</td>
<td>YieldGard VT Rootworm, Hercules® RW, YieldGard VT PRO® Corn Borer and</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Hercules® protection, Roundup Ready® 2 Technology and LibertyLink®</td>
<td></td>
</tr>
<tr>
<td>SS/RIB</td>
<td>SmartStax® RIB Complete® Corn Blend; GENSS</td>
<td>5% RIB, YieldGard VT Rootworm, Hercules® RW, YieldGard VT PRO® Corn Borer and Hercules® protection, Roundup Ready® 2 Technology and LibertyLink®</td>
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</tr>
<tr>
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<td>VT Double PRO®; GENVT2P</td>
<td>YieldGard VT PRO® Corn Borer protection, Roundup Ready® 2 Technology</td>
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<tr>
<td>VT2P/RIB</td>
<td>VT Double PRO® RIB Complete® Corn Blend; GENVT2P</td>
<td>5% RIB, YieldGard VT PRO® Corn Borer protection, Roundup Ready® 2 Technology</td>
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<tr>
<td>RR</td>
<td>Roundup Ready® Corn 2; RR2</td>
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</tr>
<tr>
<td>DGVT2P</td>
<td>DroughtGard® VT Double PRO® Corn Blend</td>
<td>DroughtGard® YieldGard VT PRO® Corn Borer protection, Roundup Ready® 2 Technology</td>
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<tr>
<td>DGVT2P/RIB</td>
<td>DroughtGard® VT Double PRO® RIB Complete® Corn Blend</td>
<td>5% RIB, DroughtGard® YieldGard VT PRO® Corn Borer protection, Roundup Ready® 2 Technology</td>
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<td>Agrisure® 3000GT</td>
<td>Agrisure® Corn Borer and Rootworm protection, Glyphosate Tolerant and LibertyLink®</td>
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<tr>
<td>AS3011A</td>
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<td>Agrisure Artesian® and Agrisure® Corn Borer, Rootworm, Glyphosate Tolerant and LibertyLink®</td>
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<tr>
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<td>Agrisure® Corn Borer, Rootworm and Broad Lepidopteran protection, Glyphosate Tolerant and LibertyLink®</td>
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<tr>
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<td>Agrisure® Glyphosate Tolerant</td>
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<tr>
<td>AS3122-EZ</td>
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<td>Agrisure® E-Z Refuge®, Agrisure® Glyphosate Tolerant, Agrisure® Corn Borer and LibertyLink®, Agrisure® Rootworm Protection and Hercules® XTRA Insect Protection</td>
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<tr>
<td>AS3220-EZ</td>
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<tr>
<td>AS3220A-EZ</td>
<td>Agrisure Viptera® 3220A E-Z Refuge®</td>
<td>Agrisure Artesian®, Agrisure® Corn Borer, Broad Lepidopteran protection, Glyphosate Tolerant and Hercules® I Insect Protection</td>
<td></td>
</tr>
</tbody>
</table>
**CP1756VT2P/RIB**

**Relative Maturity: 77 Days**

**Response Scores**

<table>
<thead>
<tr>
<th>Low</th>
<th>Moderate</th>
<th>High</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTP</td>
<td>RTN</td>
<td>RTP</td>
</tr>
</tbody>
</table>

- Earliest CROPLAN® hybrid with early flowering date for maturity
- Medium-stature plant with strong test weight and staygreen
- Fixed-ear hybrid requiring medium to high populations
- Keep in relative maturity zone; doesn’t move south well

**Characteristics**

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

**Not Recommended**

- **Seedling Vigor**: 1
- **Drought Tolerance**: 1
- **Root Strength**: 1
- **Staygreen**: 1
- **Stalk Quality**: 1
- **Dry Down**: 1
- **Test Weight**: 1

**Excellent**

- **Seedling Vigor**: 5
- **Drought Tolerance**: 5
- **Root Strength**: 5
- **Staygreen**: 5
- **Stalk Quality**: 5
- **Dry Down**: 5
- **Test Weight**: 5

**Response Scores**

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

**Characteristics**

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

**Not Recommended**

- **Seedling Vigor**: 1
- **Drought Tolerance**: 1
- **Root Strength**: 1
- **Staygreen**: 1
- **Stalk Quality**: 1
- **Dry Down**: 1
- **Test Weight**: 1

**Excellent**

- **Seedling Vigor**: 5
- **Drought Tolerance**: 5
- **Root Strength**: 5
- **Staygreen**: 5
- **Stalk Quality**: 5
- **Dry Down**: 5
- **Test Weight**: 5

**CP213VT2P/RIB**

**Relative Maturity: 81 Days**

**Response Scores**

<table>
<thead>
<tr>
<th>Low</th>
<th>Moderate</th>
<th>High</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTP</td>
<td>RTN</td>
<td>RTP</td>
</tr>
</tbody>
</table>

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

**Characteristics**

- **Seedling Vigor**: Excellent
- **Drought Tolerance**: Excellent
- **Root Strength**: Excellent
- **Staygreen**: Excellent
- **Stalk Quality**: Excellent
- **Dry Down**: Excellent
- **Test Weight**: Excellent

**Not Recommended**

- **Seedling Vigor**: 2
- **Drought Tolerance**: 2
- **Root Strength**: 2
- **Staygreen**: 2
- **Stalk Quality**: 2
- **Dry Down**: 2
- **Test Weight**: 2

**Excellent**

- **Seedling Vigor**: 3
- **Drought Tolerance**: 3
- **Root Strength**: 3
- **Staygreen**: 3
- **Stalk Quality**: 3
- **Dry Down**: 3
- **Test Weight**: 3

**CP2180VT2P/RIB**

**Relative Maturity: 81 Days**

**Response Scores**

<table>
<thead>
<tr>
<th>Low</th>
<th>Moderate</th>
<th>High</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTP</td>
<td>RTN</td>
<td>RTP</td>
</tr>
</tbody>
</table>

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

**Characteristics**

- **Seedling Vigor**: Excellent
- **Drought Tolerance**: Excellent
- **Root Strength**: Excellent
- **Staygreen**: Excellent
- **Stalk Quality**: Excellent
- **Dry Down**: Excellent
- **Test Weight**: Excellent

**Not Recommended**

- **Seedling Vigor**: 1
- **Drought Tolerance**: 1
- **Root Strength**: 1
- **Staygreen**: 1
- **Stalk Quality**: 1
- **Dry Down**: 1
- **Test Weight**: 1

**Excellent**

- **Seedling Vigor**: 5
- **Drought Tolerance**: 5
- **Root Strength**: 5
- **Staygreen**: 5
- **Stalk Quality**: 5
- **Dry Down**: 5
- **Test Weight**: 5

**CP2288VT2P/RIB**

**Relative Maturity: 82 Days**

**Response Scores**

<table>
<thead>
<tr>
<th>Low</th>
<th>Moderate</th>
<th>High</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTP</td>
<td>RTN</td>
<td>RTP</td>
</tr>
</tbody>
</table>

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

**Characteristics**

- **Seedling Vigor**: Excellent
- **Drought Tolerance**: Excellent
- **Root Strength**: Excellent
- **Staygreen**: Excellent
- **Stalk Quality**: Excellent
- **Dry Down**: Excellent
- **Test Weight**: Excellent

**Not Recommended**

- **Seedling Vigor**: 1
- **Drought Tolerance**: 1
- **Root Strength**: 1
- **Staygreen**: 1
- **Stalk Quality**: 1
- **Dry Down**: 1
- **Test Weight**: 1

**Excellent**

- **Seedling Vigor**: 5
- **Drought Tolerance**: 5
- **Root Strength**: 5
- **Staygreen**: 5
- **Stalk Quality**: 5
- **Dry Down**: 5
- **Test Weight**: 5
**CP2330VT2P/RIB**

**Relative Maturity:** 83 Days

**Characteristics**

- **Seeding Vigor**
- **Drought Tolerance**
- **Root Strength**
- **Staygreen**
- **Stalk Quality**
- **Dry Down**
- **Test Weight**

**Response Scores**

- **RTP**: Not Recommended
- **RTN**: Not Recommended
- **RTF**: Excellent

**Key**

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

**Recommended Fungicide**

- Control spot gray application recommended management nitrogen with high population staygreen strong environments yield and potential multiple yield types across soil environments.

**Notes**

- Best kept north as a medium-season or full-season product.
- Strong roots are paired with excellent drought tolerance.
- Girlish ear type with some flex and consistent tip fill.
- Early defensive complement to 2520 for low-yielding environments.

**CP2315VT2P/RIB**

**Relative Maturity:** 83 Days

**Characteristics**

- **Seeding Vigor**
- **Drought Tolerance**
- **Root Strength**
- **Staygreen**
- **Stalk Quality**
- **Dry Down**
- **Test Weight**

**Response Scores**

- **RTP**: Not Recommended
- **RTN**: Not Recommended
- **RTF**: Excellent

**Key**

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

**Recommended Fungicide**

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

**CP2417VT2P/RIB**

**Relative Maturity:** 85 Days

**Characteristics**

- **Seeding Vigor**
- **Drought Tolerance**
- **Root Strength**
- **Staygreen**
- **Stalk Quality**
- **Dry Down**
- **Test Weight**

**Response Scores**

- **RTP**: Not Recommended
- **RTN**: Not Recommended
- **RTF**: Excellent

**Key**

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

**Recommended Fungicide**

- High-yield-potential product best-positioned in highly productive soils.
- Medium-tall plant offers dual-purpose option.
- Semi-flex, girlish ear allows flexibility in planting populations.
- Acceptable emergence; not a "plant first" hybrid.

**CP2587VT2P/RIB**

**Relative Maturity:** 85 Days

**Characteristics**

- **Seeding Vigor**
- **Drought Tolerance**
- **Root Strength**
- **Staygreen**
- **Stalk Quality**
- **Dry Down**
- **Test Weight**

**Response Scores**

- **RTP**: Not Recommended
- **RTN**: Not Recommended
- **RTF**: Excellent

**Key**

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

**Recommended Fungicide**

- Acceptable emergence; a not ideal hybrid.
- Goss's wilt tolerance; slower drydown due to girlish cob and tight husk. With good flexibility, Medium-tall option dual-purpose plant in highly productive soils.

**CP2692AS3011A**

**Relative Maturity:** 86 Days

**Characteristics**

- **Seeding Vigor**
- **Drought Tolerance**
- **Root Strength**
- **Staygreen**
- **Stalk Quality**
- **Dry Down**
- **Test Weight**

**Response Scores**

- **RTP**: Not Recommended
- **RTN**: Not Recommended
- **RTF**: Excellent

**Key**

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

**Recommended Fungicide**

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

**CP2790VT2P/RIB**

**Relative Maturity:** 87 Days

**Characteristics**

- **Seeding Vigor**
- **Drought Tolerance**
- **Root Strength**
- **Staygreen**
- **Stalk Quality**
- **Dry Down**
- **Test Weight**

**Response Scores**

- **RTP**: Not Recommended
- **RTN**: Not Recommended
- **RTF**: Excellent

**Key**

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

**Recommended Fungicide**

- High-yielding product with strong ear flex and drought tolerance.
- Excellent seedling vigor for early planting.
- Strong ear flex with a moderate response-to-nitrogen; can fit a broad range of growing conditions.
- Manage for late-season stalks and Goss's wilt.
<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Score</th>
<th>Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seedling Vigor</td>
<td></td>
<td>Not Recommended</td>
</tr>
<tr>
<td>Drought Tolerance</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Root Strength</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Staygreen</td>
<td></td>
<td></td>
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<tr>
<td>stalk Quality</td>
<td></td>
<td></td>
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<tr>
<td>Dry Down</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Test Weight</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**CP3337VT2P/RIB**
- Relative Maturity: 93 Days

**CP3399SS/RIB**
- Relative Maturity: 94 Days

**CP3499VT2P/RIB**
- Relative Maturity: 94 Days

**CP3533VT2P/RIB**
- Relative Maturity: 95 Days

**CP3575SS/RIB**
- Relative Maturity: 95 Days

**KEY**
- Scale: 1 = Excellent
- 2 = Good
- 3 = Acceptable
- 4 = Manageable
- 5 = Not Recommended

- **Excellent** choice for light, droughty soils
- **High** response scores for variable placement and management
- Moderate and low response scores for variable placement and management
- **High** yield with moderate stress tolerance
- Some soil types and consistent silking under drought stress
- **Excellent** choice for dry conditions and moves across all soil types
- **Excellent** yield with enhanced nitrogen management
- Manages for Goss’s wilt
- Excellent choice for light, droughty soils
- Medium-stature hybrid with strong staygreen
- **Excellent** yield with enhanced nitrogen management
- Manages for Goss’s wilt

**CROPLAN** corn silage hybrids that consistently perform to high-quality and high-yield in all environments.
**CP3611SS/RIB**
Relative Maturity: 96 Days

**Response Scores**

- Best-positioned on rotated acres
- Excellent roots and fast drydown
- Highly responsive to increased nitrogen fertilizer; moderate response to population
- Monitor in areas with heavy gray leaf spot and northern corn leaf blight

**Characteristics**

<table>
<thead>
<tr>
<th>Seedling Vigor</th>
<th>Drought Tolerance</th>
<th>Root Strength</th>
<th>Staygreen</th>
<th>Stalk Quality</th>
<th>Dry Down</th>
<th>Test Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Recommended</td>
<td>Excellent</td>
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</tbody>
</table>

**CP3614VT2P/RIB**
Relative Maturity: 96 Days

**Response Scores**

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

**Characteristics**

<table>
<thead>
<tr>
<th>Seedling Vigor</th>
<th>Drought Tolerance</th>
<th>Root Strength</th>
<th>Staygreen</th>
<th>Stalk Quality</th>
<th>Dry Down</th>
<th>Test Weight</th>
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</thead>
<tbody>
<tr>
<td>Not Recommended</td>
<td>Excellent</td>
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</table>

**CP3699RR**
Relative Maturity: 96 Days

**Response Scores**

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

**Characteristics**

<table>
<thead>
<tr>
<th>Seedling Vigor</th>
<th>Drought Tolerance</th>
<th>Root Strength</th>
<th>Staygreen</th>
<th>Stalk Quality</th>
<th>Dry Down</th>
<th>Test Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Recommended</td>
<td>Excellent</td>
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</tbody>
</table>

**CP3705SS/RIB**
Relative Maturity: 97 Days

**Response Scores**

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

**Characteristics**

<table>
<thead>
<tr>
<th>Seedling Vigor</th>
<th>Drought Tolerance</th>
<th>Root Strength</th>
<th>Staygreen</th>
<th>Stalk Quality</th>
<th>Dry Down</th>
<th>Test Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Recommended</td>
<td>Excellent</td>
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</tbody>
</table>

**CP3735SS/RIB**
Relative Maturity: 97 Days

**Response Scores**

- Adaptable east to west; versatile hybrid for all yield environments
- Excellent test weight and emergence with solid defensive traits
- Plant at moderate to high densities; fungicide application is recommended
- Keep in RM zone

**Characteristics**

<table>
<thead>
<tr>
<th>Seedling Vigor</th>
<th>Drought Tolerance</th>
<th>Root Strength</th>
<th>Staygreen</th>
<th>Stalk Quality</th>
<th>Dry Down</th>
<th>Test Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Recommended</td>
<td>Excellent</td>
<td></td>
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</tr>
</tbody>
</table>

**CP3795VT2P/RIB**
Relative Maturity: 97 Days

**Response Scores**

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

**Characteristics**

<table>
<thead>
<tr>
<th>Seedling Vigor</th>
<th>Drought Tolerance</th>
<th>Root Strength</th>
<th>Staygreen</th>
<th>Stalk Quality</th>
<th>Dry Down</th>
<th>Test Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Recommended</td>
<td>Excellent</td>
<td></td>
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</tr>
</tbody>
</table>

**KEY**

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

*Cropplan* corn silage hybrids that consistently perform for high-quality and high-massage in all New P**®** trials.
**CP3899VT2P/RIB**

**Relative Maturity:** 98 Days

**Response Scores**

- **Scores:**
  - RTP: 3
  - RTN: 2
  - RIF: 2

**Characteristics**

- **Seeding Vigor:**
  - Not Recommended
  - Excellent

- **Drought Tolerance:**
  - Not Recommended
  - Excellent

- **Root Strength:**
  - 2

- **Staygreen:**
  - 2

- **Stalk Quality:**
  - 2

- **Dry Down:**
  - 2

- **Test Weight:**
  - 2

**Response**

- High yield performance across multiple environments and soils
- Medium-tall hybrid with excellent seedling vigor; strong stalks, roots and drought tolerance
- High response to intensive management, but not required
- Manage in areas with gray leaf spot and northern corn leaf blight

**Key**

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

---

**CP3909SS/RIB**

**Relative Maturity:** 99 Days

**Response Scores**

- **Scores:**
  - RTP: 3
  - RTN: 2
  - RIF: 2

**Characteristics**

- **Seeding Vigor:**
  - Not Recommended
  - Excellent

- **Drought Tolerance:**
  - Not Recommended
  - Excellent

- **Root Strength:**
  - 2

- **Staygreen:**
  - 2

- **Stalk Quality:**
  - 2

- **Dry Down:**
  - 2

- **Test Weight:**
  - 2

**Response**

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

**Key**

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

---

**CP4020VT2P/RIB**

**Relative Maturity:** 100 Days

**Response Scores**

- **Scores:**
  - RTP: 3
  - RTN: 2
  - RIF: 2

**Characteristics**

- **Seeding Vigor:**
  - Not Recommended
  - Excellent

- **Drought Tolerance:**
  - Not Recommended
  - Excellent

- **Root Strength:**
  - 2

- **Staygreen:**
  - 2

- **Stalk Quality:**
  - 2

- **Dry Down:**
  - 2

- **Test Weight:**
  - 2

**Response**

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

**Key**

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

---

**CP4079SS/RIB**

**Relative Maturity:** 100 Days

**Response Scores**

- **Scores:**
  - RTP: 3
  - RTN: 2
  - RIF: 2

**Characteristics**

- **Seeding Vigor:**
  - Not Recommended
  - Excellent

- **Drought Tolerance:**
  - Not Recommended
  - Excellent

- **Root Strength:**
  - 2

- **Staygreen:**
  - 2

- **Stalk Quality:**
  - 2

- **Dry Down:**
  - 2

- **Test Weight:**
  - 2

**Response**

- 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

**Key**

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

---

**CP4099SS/RIB**

**Relative Maturity:** 100 Days

**Response Scores**

- **Scores:**
  - RTP: 3
  - RTN: 2
  - RIF: 2

**Characteristics**

- **Seeding Vigor:**
  - Not Recommended
  - Excellent

- **Drought Tolerance:**
  - Not Recommended
  - Excellent

- **Root Strength:**
  - 2

- **Staygreen:**
  - 2

- **Stalk Quality:**
  - 2

- **Dry Down:**
  - 2

- **Test Weight:**
  - 2

**Response**

- Solid product from east to west; consistent high-yield potential on most soil types
- 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

**Key**

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

---

**CP4188SS/RIB**

**Relative Maturity:** 100 Days

**Response Scores**

- **Scores:**
  - RTP: 3
  - RTN: 2
  - RIF: 2

**Characteristics**

- **Seeding Vigor:**
  - Not Recommended
  - Excellent

- **Drought Tolerance:**
  - Not Recommended
  - Excellent

- **Root Strength:**
  - 2

- **Staygreen:**
  - 2

- **Stalk Quality:**
  - 2

- **Dry Down:**
  - 2

- **Test Weight:**
  - 2

**Response**

- 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

**Key**

1 = Excellent
2 = Strong
3 = Acceptable
4 = Manage
5 = Not Recommended
### CP4199SS/RIB

**[VT2P/RIB]**

**Relative Maturity:** 101 Days

**Response Scores**

<table>
<thead>
<tr>
<th>Low</th>
<th>Moderate</th>
<th>High</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTP</td>
<td>RTP</td>
<td>RTP</td>
</tr>
</tbody>
</table>

**Characteristics**

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

### CP5146SS/RIB

**[VT2P/RIB]**

**Relative Maturity:** 101 Days

**Response Scores**

<table>
<thead>
<tr>
<th>Low</th>
<th>Moderate</th>
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</tr>
</thead>
<tbody>
<tr>
<td>RTP</td>
<td>RTP</td>
<td>RTP</td>
</tr>
</tbody>
</table>

**Characteristics**

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

### CP4203SS/RIB

**[VT2P/RIB]**

**Relative Maturity:** 102 Days

**Response Scores**

<table>
<thead>
<tr>
<th>Low</th>
<th>Moderate</th>
<th>High</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTP</td>
<td>RTP</td>
<td>RTP</td>
</tr>
</tbody>
</table>

**Characteristics**

- Widely adapted from Central U.S. to the West
- Tolerates heat well; excellent greensnap tolerance
- Performs best with enhanced nutrient management
- Fungicide is recommended when planted in a continuous-corn rotation

### CP4242SS/RIB

**[VT2P/RIB]**

**Relative Maturity:** 102 Days

**Response Scores**

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>RTP</td>
<td>RTP</td>
<td>RTP</td>
</tr>
</tbody>
</table>

**Characteristics**

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

### CP4265VT2P/RIB

**[VT2P/RIB]**

**Relative Maturity:** 102 Days

**Response Scores**

<table>
<thead>
<tr>
<th>Low</th>
<th>Moderate</th>
<th>High</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTP</td>
<td>RTP</td>
<td>RTP</td>
</tr>
</tbody>
</table>

**Characteristics**

- 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 Ph ysoderma node breakage

### CP4350SS/RIB

**[VT2P/RIB]**

**Relative Maturity:** 102 Days

**Response Scores**

<table>
<thead>
<tr>
<th>Low</th>
<th>Moderate</th>
<th>High</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTP</td>
<td>RTP</td>
<td>RTP</td>
</tr>
</tbody>
</table>

**Characteristics**

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

---

**Scale**

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

**KEY**

Product descriptions and ratings are generated from Aurora P**™** trials and/or from the genetics supplier and may change as additional data is gathered.

**CROPLAN** uses only hybrids that consistently perform for high-quality and high-hedgerate in Aurora P**™** trials.
**CP4819AS3000GT**

**Relative Maturity:** 103 Days

**Response Scores**

- **Low**
- **Moderate**
- **High**

**Characteristics**

- Seeding Vigor
- Drought Tolerance
- Root Strength
- Stalk Quality
- Dry Down
- Test Weight

**Recommended**

- Not Recommended
- Excellent

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

**CP4822VT2P/RIB**

**Relative Maturity:** 103 Days

**Response Scores**

- **Low**
- **Moderate**
- **High**

**Characteristics**

- Seeding Vigor
- Drought Tolerance
- Root Strength
- Stalk Quality
- Dry Down
- Test Weight

**Recommended**

- Not Recommended
- Excellent

* • Stress tolerance for challenging environments; flowers late, keep as early 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

**CP4444VT2P/RIB**

**Relative Maturity:** 104 Days

**Response Scores**

- **Low**
- **Moderate**
- **High**

**Characteristics**

- Seeding Vigor
- Drought Tolerance
- Root Strength
- Stalk Quality
- Dry Down
- Test Weight

**Recommended**

- Not Recommended
- Excellent

* • 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

**CP4488SS/RIB**

**Relative Maturity:** 104 Days

**Response Scores**

- **Low**
- **Moderate**
- **High**

**Characteristics**

- Seeding Vigor
- Drought Tolerance
- Root Strength
- Stalk Quality
- Dry Down
- Test Weight

**Recommended**

- Not Recommended
- Excellent

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

**CP4549SS/RIB**

**Relative Maturity:** 105 Days

**Response Scores**

- **Low**
- **Moderate**
- **High**

**Characteristics**

- Seeding Vigor
- Drought Tolerance
- Root Strength
- Stalk Quality
- Dry Down
- Test Weight

**Recommended**

- Not Recommended
- Excellent

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

**CP4676SS/RIB**

**Relative Maturity:** 106 Days

**Response Scores**

- **Low**
- **Moderate**
- **High**

**Characteristics**

- Seeding Vigor
- Drought Tolerance
- Root Strength
- Stalk Quality
- Dry Down
- Test Weight

**Recommended**

- Not Recommended
- Excellent

* • 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

**KEY**

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

**CROPLAN®** corn silage hybrids that consistently perform for high-quality and high-volume in answer FLEX™ trials.
**CP4644DGVT2P/RIB**

Relative Maturity: 106 Days

**Response Scores**

<table>
<thead>
<tr>
<th>Low</th>
<th>Moderate</th>
<th>High</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTP</td>
<td>RTN</td>
<td>RPF</td>
</tr>
</tbody>
</table>

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

**Characteristics**

<table>
<thead>
<tr>
<th>Seedling Vigor</th>
<th>Drought Tolerance</th>
<th>Root Strength</th>
<th>Staygreen</th>
<th>Stalk Quality</th>
<th>Dry Down</th>
<th>Test Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Recommended</td>
<td>Excellent</td>
<td></td>
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</tr>
</tbody>
</table>

**CP5412SS/RIB**

Relative Maturity: 106 Days

**Response Scores**

<table>
<thead>
<tr>
<th>Low</th>
<th>Moderate</th>
<th>High</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTP</td>
<td>RTN</td>
<td>RPF</td>
</tr>
</tbody>
</table>

- Great fit for western irrigated acres
- Excellent Goss’s wilt and greensnap tolerance
- Requires moderate or high populations and fits corn-on-corn acres well

**Characteristics**

<table>
<thead>
<tr>
<th>Seedling Vigor</th>
<th>Drought Tolerance</th>
<th>Root Strength</th>
<th>Staygreen</th>
<th>Stalk Quality</th>
<th>Dry Down</th>
<th>Test Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Recommended</td>
<td>Excellent</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

**CP4895SS/RIB**

**Response Scores**

<table>
<thead>
<tr>
<th>Low</th>
<th>Moderate</th>
<th>High</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTP</td>
<td>RTN</td>
<td>RPF</td>
</tr>
</tbody>
</table>

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

**Characteristics**

<table>
<thead>
<tr>
<th>Seedling Vigor</th>
<th>Drought Tolerance</th>
<th>Root Strength</th>
<th>Staygreen</th>
<th>Stalk Quality</th>
<th>Dry Down</th>
<th>Test Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Recommended</td>
<td>Excellent</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

**CP5887VT2P/RIB**

Relative Maturity: 108 Days

**Response Scores**

<table>
<thead>
<tr>
<th>Low</th>
<th>Moderate</th>
<th>High</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTP</td>
<td>RTN</td>
<td>RPF</td>
</tr>
</tbody>
</table>

- Versatile hybrid moves across soil types and yield environments
- Medium-height plant with strong ear flex; excellent drydown and test weight
- High response to nitrogen; manage fertility
- Manage stalk quality with medium-to-low seedling rate; fungicide is recommended

**Characteristics**

<table>
<thead>
<tr>
<th>Seedling Vigor</th>
<th>Drought Tolerance</th>
<th>Root Strength</th>
<th>Staygreen</th>
<th>Stalk Quality</th>
<th>Dry Down</th>
<th>Test Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Recommended</td>
<td>Excellent</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

**CP4971AS3111**

Relative Maturity: 107 Days

**Response Scores**

<table>
<thead>
<tr>
<th>Low</th>
<th>Moderate</th>
<th>High</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTP</td>
<td>RTN</td>
<td>RPF</td>
</tr>
</tbody>
</table>

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

**Characteristics**

<table>
<thead>
<tr>
<th>Seedling Vigor</th>
<th>Drought Tolerance</th>
<th>Root Strength</th>
<th>Staygreen</th>
<th>Stalk Quality</th>
<th>Dry Down</th>
<th>Test Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Recommended</td>
<td>Excellent</td>
<td></td>
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<td></td>
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</tbody>
</table>

**CP4997VT2P/RIB**

Relative Maturity: 109 Days

**Response Scores**

<table>
<thead>
<tr>
<th>Low</th>
<th>Moderate</th>
<th>High</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTP</td>
<td>RTN</td>
<td>RPF</td>
</tr>
</tbody>
</table>

- 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**

<table>
<thead>
<tr>
<th>Seedling Vigor</th>
<th>Drought Tolerance</th>
<th>Root Strength</th>
<th>Staygreen</th>
<th>Stalk Quality</th>
<th>Dry Down</th>
<th>Test Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Recommended</td>
<td>Excellent</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

**KEY**

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

**RESPOND Planting Instructions**

- Ensure optimum populations plant especially potential, medium-to-high yield High at package disease solid with Medium-height plant and performance soils in medium and late-season stalks for recommended application. Best-suited fungicide ear semi-flex Responds management; to additional package disease solid seedling vigor; emergence and Excellent RM keep Solid multiple soil environments.

**CP4644DGVT2P/RIB**

Days:

- RTP: 106
- RTN: 106
- RPF: 106

**CP5412SS/RIB**

Days:

- RTP: 106
- RTN: 106
- RPF: 106

**CP4895SS/RIB**

Days:

- RTP: 106
- RTN: 106
- RPF: 106

**CP5887VT2P/RIB**

Days:

- RTP: 106
- RTN: 106
- RPF: 106

**CP4971AS3111**

Days:

- RTP: 106
- RTN: 106
- RPF: 106

**CP4997VT2P/RIB**

Days:

- RTP: 106
- RTN: 106
- RPF: 106
**CP5073SS/RIB**

[VT2P/RIB]*
Relative Maturity: 110 Days

**Response Scores**

<table>
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<tr>
<th>Scale</th>
<th>Low</th>
<th>Moderate</th>
<th>High</th>
</tr>
</thead>
<tbody>
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</tr>
<tr>
<td>RTN</td>
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<td>3</td>
</tr>
<tr>
<td>RTF</td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
</tbody>
</table>

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

**Characteristics**

- Seeding Vigor
- Drought Tolerance
- Root Strength
- Staygreen
- stalk Quality
- Dry Down
- Test Weight

[Not Recommended] [Excellent]

**CP6110VT2P/RIB**

Relative Maturity: 110 Days

**Response Scores**

<table>
<thead>
<tr>
<th>Scale</th>
<th>Low</th>
<th>Moderate</th>
<th>High</th>
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<tbody>
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<td>RTP</td>
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</tr>
<tr>
<td>RTN</td>
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<td>2</td>
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</tr>
<tr>
<td>RTF</td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
</tbody>
</table>

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

**Characteristics**

- Seeding Vigor
- Drought Tolerance
- Root Strength
- Staygreen
- stalk Quality
- Dry Down
- Test Weight

[Not Recommended] [Excellent]

**CP5115SS/RIB**

[VT2P/RIB]*
Relative Maturity: 111 Days

**Response Scores**

<table>
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<tr>
<th>Scale</th>
<th>Low</th>
<th>Moderate</th>
<th>High</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTP</td>
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<td>2</td>
<td>3</td>
</tr>
<tr>
<td>RTN</td>
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<td>2</td>
<td>3</td>
</tr>
<tr>
<td>RTF</td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
</tbody>
</table>

- Best-suited for variable-to-tough acres
- Excellent emergence, seedling vigor and roots
- Semi-flex ear; plant at moderate populations
- Use caution on Goss’s wilt acres

**Characteristics**

- Seeding Vigor
- Drought Tolerance
- Root Strength
- Staygreen
- stalk Quality
- Dry Down
- Test Weight

[Not Recommended] [Excellent]

**CP5252VT2P/RIB**

Relative Maturity: 112 Days

**Response Scores**

<table>
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<th>Low</th>
<th>Moderate</th>
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<tr>
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</tr>
<tr>
<td>RTF</td>
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<td>2</td>
<td>3</td>
</tr>
</tbody>
</table>

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

**Characteristics**

- Seeding Vigor
- Drought Tolerance
- Root Strength
- Staygreen
- stalk Quality
- Dry Down
- Test Weight

[Not Recommended] [Excellent]

**CP5277AS3220-EZ**

Relative Maturity: 112 Days

**Response Scores**

<table>
<thead>
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<th>Scale</th>
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<td>RTF</td>
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- Excellent agronomics; consistent product performance east to west
- Medium-tall plant with medium-high ear set
- High response-to-population score
- Enhanced fertility and fungicide application recommended

**Characteristics**

- Seeding Vigor
- Drought Tolerance
- Root Strength
- Staygreen
- stalk Quality
- Dry Down
- Test Weight

[Not Recommended] [Excellent]

**CP5290SS/RIB**

[DGVT2P/RIB*, CONV]
Relative Maturity: 112 Days

**Response Scores**

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- Versatile hybrid that works across multiple yield environments; dual-purpose option
- Long, slender ear with good tip fill; food-grade quality with excellent test weight
- Optimize yield with nitrogen management and moderate populations
- High response to fungicide; timely harvest is recommended

**Characteristics**

- Seeding Vigor
- Drought Tolerance
- Root Strength
- Staygreen
- stalk Quality
- Dry Down
- Test Weight

[Not Recommended] [Excellent]

**KEY**

Product descriptions and ratings are generated from Arrow® F1® trials and/or from the genetics supplier and may change as additional data is gathered.

CROPLAND® corn silage hybrids that consistently perform for high-quality and high-checks in Arrow® F1® trials.
**CP5340VT2P**

**Characteristics**
- Versatile hybrid with excellent heat tolerance and yield potential
- Modern genetics 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

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

**Response Scores**
- Not Recommended: 1
- Excellent: 6

**CP5335SS/RIB**

**Characteristics**
- Consistent across variable environments
- Solid agronomics, including excellent 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

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

**Response Scores**
- Not Recommended: 1
- Excellent: 6

**CP5370SS/RIB**

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

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

**Response Scores**
- Not Recommended: 1
- Excellent: 6

**CP6594SS/RIB**

**Characteristics**
- Widely adapted east to west with excellent heat tolerance and high yield potential
- Solid agronomics; excellent stalks and roots; acceptable Goss's wilt tolerance
- Versatility allows placement across variable acres
- Take advantage of fast drydown at harvest; keep in 110RM zones

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

**Response Scores**
- Not Recommended: 1
- Excellent: 6

**CP6818 CONV**

**Characteristics**
- Conventional hybrid with wide adaptability across yield environments
- Excellent roots, stalks and vigor; exceptional ability to silk and kernel fill under stress
- Great option for continuous-corn acres; semi-fixed ear will perform best at moderate-to-high plant densities

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

**Response Scores**
- Not Recommended: 1
- Excellent: 6

**CP5550VT2P/RIB**

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

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

**Response Scores**
- Not Recommended: 1
- Excellent: 6
**CP5570VT2P/RIB**

*Relative Maturity: 115 Days*

**Response Scores**

- Low
- Moderate
- High

**Characteristics**

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

**Scale**

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

**Key**

CROPLAN® corn silage hybrids that consistently perform for high-quality and high-density in farmer PM® trials.

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

**CP5678SS/RIB**

*Relative Maturity: 116 Days*

**Response Scores**

- Low
- Moderate
- High

**Characteristics**

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

**Scale**

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

**Key**

CROPLAN® corn silage hybrids that consistently perform for high-quality and high-density in farmer PM® trials.

- Broadly adapted across yield environments; medium to tall plant with semi-flex ear
- Position at medium populations with enhanced nitrogen management for high yield potential

**CP5789VT2P/RIB**

*Relative Maturity: 117 Days*

**Response Scores**

- Low
- Moderate
- High

**Characteristics**

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

**Scale**

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

**Key**

CROPLAN® corn silage hybrids that consistently perform for high-quality and high-density in farmer PM® trials.

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

**CP5814SS/RIB**

*Relative Maturity: 118 Days*

**Response Scores**

- Low
- Moderate
- High

**Characteristics**

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

**Scale**

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

**Key**

CROPLAN® corn silage hybrids that consistently perform for high-quality and high-density in farmer PM® trials.

- Broadly adapted across all yield environments
- Medium-height plant; strong roots and stalks; excellent staygreen
- Semi-flex ear; highly responsive to enhanced nitrogen management
- Fungicide recommended in areas with heavy gray leaf spot pressure

**CP6027VT2P/RIB**

*Relative Maturity: 120 Days*

**Response Scores**

- Low
- Moderate
- High

**Characteristics**

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

**Scale**

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

**Key**

CROPLAN® corn silage hybrids that consistently perform for high-quality and high-density in farmer PM® trials.

- Broad Southern adaptability east to west; excellent silage potential
- Medium-to-tall plant with strong stalks, staygreen and seedling vigor
- Best performance at medium to medium-high populations
- Manage nitrogen for top-end yield potential; fungicide recommended in areas with heavy gray leaf spot pressure
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**KEY**

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

- **RTP/RTN/RTCC/RTF Ratings**
  - L = Low Response
  - M = Moderate Response
  - H = High Response
  - TBD = To be tested in 2020.

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

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

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

- **Ear Flex**
  - FL = Flex
  - SF = Fixed

- **Drydown**
  - Drought Tolerance

- **Test Weight**

- **Gray Leaf Spot**

- **Anthracnose Spot**

- **Common Rust**

- **Physoderma Nodule Breakage**

- **Goss's Wilt**

- **Diplodia Ear Rot**

- **Seedling Vigor**

- **Stalk Quality**

- **Root Strength**

- **Staygreen**

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

**Note:** The entries in the table are based on product descriptions and ratings generated from Answer Plot® trials and/or from the genetics supplier and may change as additional data is gathered.

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**NEW**

**RM: Z7-89**
CORN trials that change with variations in rainfall, temperature, crop production patterns and other factors. Ratings on new hybrids are based on limited data and may change as more data is collected.

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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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</table>
CORN 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.

**KEY**

- **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.

### Plant Height
- **T** = Tall
- **M** = Medium
- **S** = Short

### Ear Height
- **H** = High
- **M** = Medium
- **L** = Low

### RTP/RTN/RTCC/RTF Ratings
- **L** = Low Response
- **M** = Moderate Response
- **H** = High Response
- **TBD** = To be tested in 2020.

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

### Ear Flex
- **FL** = Flex
- **SF** = Fixed

### Flower Date
- **L** = Late
- **M** = Medium
- **E** = Early

### Color

### Kernel Rows

### Relative Maturity

### GDU to Maturity

### Response to Population [RTP]

### Response to Nitrogen [RTN]

### Response to Continuous Corn [RTCC]

### Response to Fungicide [RTF]

### Drydown

### Drought Tolerance

### Test Weight

### Gray Leaf Spot
- **NCLB**
- **SCLB**

### Anthracnose
- **S**

### Common Rust
- **R**

### Physoderma Nodel Breakage

### Goss’s Wilt

### Diplodia Ear Rot

### Seedling Vigor

### Stalk Quality

### Root Strength

### Staygreen

### BRAND

### RM: 100-104

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<td>CP5146SS/RIB*</td>
<td>101MMMM2510MMREDSFMedium16-182212221433332N/AN/A</td>
</tr>
<tr>
<td>CP4203SS/RIB*</td>
<td>102HHHM2443MMREDSDMedium14-163223222333313N/AN/A</td>
</tr>
<tr>
<td>CP4242SS/RIB*</td>
<td>102MLLHN/AM-TMREDFLMedium14-16222322133N/AN/A2N/AN/AN/A</td>
</tr>
<tr>
<td>CP4265VT2P/RIB*</td>
<td>102MMMM2409MMREDSDMedium-Late16-181213133332N/A2353</td>
</tr>
<tr>
<td>CP4350SS/RIB*</td>
<td>102MMMM2430M-SM-LREDSFMedium-Early16-18231232332N/A323N/AN/A</td>
</tr>
<tr>
<td>CP4819AS3000GT*</td>
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</tr>
<tr>
<td>CP4822VT2P/RIB*</td>
<td>103MLML2605MM-HREDSFLate16-18231322332N/A333N/AN/A</td>
</tr>
<tr>
<td>CP4444VT2P/RIB*</td>
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</tr>
<tr>
<td>CP4488SS/RIB*</td>
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</table>

New
CORN 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.

<table>
<thead>
<tr>
<th>BRAND</th>
<th>RM: 105-109</th>
</tr>
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<tbody>
<tr>
<td>CP949 JX272/RTB</td>
<td>109</td>
</tr>
<tr>
<td>CP985 JX272/RTB</td>
<td>108</td>
</tr>
<tr>
<td>CP949 JX272/RTB</td>
<td>108</td>
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<td>CP949 JX272/RTB</td>
<td>108</td>
</tr>
<tr>
<td>CP949 JX272/RTB</td>
<td>108</td>
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<tr>
<td>CP949 JX272/RTB</td>
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<td>CP949 JX272/RTB</td>
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</tbody>
</table>

KEY

1. RTP/RTN/RTCC/RTF Ratings
   - L = Low Response
   - M = Moderate Response
   - H = High Response
   - TBD = To be tested in 2020.

2. Plant Height
   - T = Tall
   - M = Medium
   - S = Short

3. Ear Height
   - H = High
   - M = Medium
   - L = Low

4. Ear Flex
   - FL = Flex
   - SF = Fixed

5. Flower Date
   - L = Late
   - M = Medium
   - E = Early

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

Scale

1. Excellent
2. Strong
3. Acceptable
4. Manage
5. Not Recommended
CORN 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.

<table>
<thead>
<tr>
<th>BRAND</th>
<th>RM: 110-120</th>
</tr>
</thead>
<tbody>
<tr>
<td>CP5073SS/RIB*</td>
<td>110MMHH2640MM-HREDSFMedium16-181322223321N/A33N/AN/A</td>
</tr>
<tr>
<td>CP6110VT2P/RIB*</td>
<td>110MMMM2600MMREDSFMedium16-182312313422433N/A3</td>
</tr>
<tr>
<td>CP5115SS/RIB*</td>
<td>111HHHM2624M-TM-HREDSFMedium-Late18-201213321323N/A4353</td>
</tr>
<tr>
<td>CP5252VT2P/RIB*</td>
<td>112MHMM2750MMREDSFMedium14-18222122233333N/AN/AN/A</td>
</tr>
<tr>
<td>CP5277AS3220-EZ*</td>
<td>112HHLH2660M-TM-HWhiteSFEarly14-16221222232222N/AN/AN/A</td>
</tr>
<tr>
<td>CP5290SS/RIB*</td>
<td>112MHMH2610MMREDSFMedium14-16133323123313N/AN/AN/A</td>
</tr>
<tr>
<td>CP5340VT2P</td>
<td>113MMML2770M-SMREDFLMedium16-202113233322343N/A4</td>
</tr>
<tr>
<td>CP5335SS/RIB*</td>
<td>113MHHM2728M-TMPINKSFMedium16-182122221322N/A22N/A2</td>
</tr>
<tr>
<td>CP5370SS/RIB*</td>
<td>113HHMM2730TM-HREDSFMedium18-201113221322342N/AN/A</td>
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<tr>
<td>CP6594SS/RIB*</td>
<td>113MMHM2690MMREDSFMedium16-182112222332233N/A3</td>
</tr>
<tr>
<td>CP6818 CONV</td>
<td>114HLHM2830MMREDSFMedium16-18111231122223N/AN/AN/A</td>
</tr>
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<td>CP5550VT2P/RIB*</td>
<td>115MMLM2748M-TM-HPINKSFMedium14-162222222332N/A31N/A3</td>
</tr>
<tr>
<td>CP5570VT2P/RIB*</td>
<td>115HMMH2630MMREDSFMedium16-183222323332N/A33N/A3</td>
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<tr>
<td>CP5678SS/RIB*</td>
<td>116MHMM2790MMREDSFMedium14-162233321322N/A3333</td>
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<tr>
<td>CP5789VT2P/RIB*</td>
<td>117HMMH2738TM-HREDSFMedium16-182111321312N/A43N/A3</td>
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<tr>
<td>CP5814SS/RIB*</td>
<td>118MHMH2702MMRedSFMedium-Early16-18222124142N/AN/A32N/AN/A</td>
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<tr>
<td>CP6027VT2P/RIB*</td>
<td>120MHLH2790M-TM-HREDSFMedium16-182222342412N/AN/AN/A</td>
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</tbody>
</table>

**KEY**

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

**Scale**

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

**NOTE**

Product descriptions and ratings are generated from Answer Plot® trials and/or from the genetics supplier and may change as additional data is gathered.
<table>
<thead>
<tr>
<th>Product Name</th>
<th>Attributes</th>
<th>Placement</th>
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</tr>
</tbody>
</table>
There’s no good reason risk has to increase with yield.

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

<table>
<thead>
<tr>
<th>Glyphosate</th>
<th>Glufosinate</th>
<th>2,4-D Choline</th>
<th>Dicamba</th>
<th>HPPD Isoxaflutole</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIBERTYLINK®</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LIBERTYLINK® GT27™</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>ROUNDUP READY 2 YIELD®</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ROUNDUP READY 2 XTEND®</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENLIST E3®</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

REDUCE RISK WITH WINPAK® SOYBEAN VARIETIES

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

EXAMPLE OF HOW A WINPAK® VARIETY CAN BE FORMULATED

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

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

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

AVERAGE GERMINATION IMPROVEMENT: WARDEN® CX VS. UNTREATED

<table>
<thead>
<tr>
<th></th>
<th>Warm Germination</th>
<th>Cold Germination</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warden® CX</td>
<td>85.9%</td>
<td>82%</td>
</tr>
<tr>
<td>Untreated</td>
<td>81.4%</td>
<td>54.4%</td>
</tr>
</tbody>
</table>

AVERAGE IMPROVEMENT:

- Warm Germination: 4.5%
- Cold Germination: 27.6%

MANAGE IN-SEASON

Select your disease package based on field conditions.

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

OPTIMAL CONDITIONS FOR DISEASE INFECTION

<table>
<thead>
<tr>
<th>FUNGUS</th>
<th>DISEASE</th>
<th>TEMPERATURE (F) RANGE/OPTIMUM</th>
<th>MOISTURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pythium</td>
<td>Damping-off</td>
<td>50°–68°/&lt;59°</td>
<td>Saturated</td>
</tr>
<tr>
<td>Rhizoctonia</td>
<td>Damping-off</td>
<td>60°–86°/80°</td>
<td>30%–60% water</td>
</tr>
<tr>
<td>Phytophthora</td>
<td>Damping-off</td>
<td>59°–86°/77°–80°</td>
<td>Saturated; weekly periodic rain</td>
</tr>
<tr>
<td>Fusarium</td>
<td>SDS and root rot</td>
<td>50°–86°/59°</td>
<td>Wet to saturated</td>
</tr>
</tbody>
</table>
Descriptive variety numbering and trait lettering systems are used for CROPLAN® soybean varieties.

<table>
<thead>
<tr>
<th>KEY</th>
<th>VARIETY</th>
<th>TRAIT HERBICIDE TOLERANCE</th>
<th>LOGO</th>
</tr>
</thead>
<tbody>
<tr>
<td>L</td>
<td>LibertyLink®</td>
<td>Liberty® tolerant</td>
<td><img src="image" alt="LibertyLink" /></td>
</tr>
<tr>
<td>LG</td>
<td>LibertyLink® GT27™</td>
<td>Liberty® and glyphosate tolerant</td>
<td><img src="image" alt="LibertyLink GT27" /></td>
</tr>
<tr>
<td>RR</td>
<td>Roundup Ready 2 Yield®</td>
<td>Roundup® tolerant</td>
<td><img src="image" alt="Roundup Ready 2 Yield" /></td>
</tr>
<tr>
<td>X</td>
<td>Roundup Ready 2 Xtend®</td>
<td>Roundup® and dicamba tolerant</td>
<td><img src="image" alt="Roundup Ready 2 Xtend" /></td>
</tr>
<tr>
<td>E</td>
<td>Enlist E3®</td>
<td>Glyphosate, glufosinate and 2,4-D choline tolerant</td>
<td><img src="image" alt="Enlist E3" /></td>
</tr>
<tr>
<td>S</td>
<td>STS®</td>
<td>Sulfonyleurea tolerant</td>
<td>N/A</td>
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</table>
### CP00319X
**Group**: 0.03 Days

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Not Recommended</th>
<th>Excellent</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRR Tolerance</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SDS Tolerance</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SWM Tolerance</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BSR Tolerance</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Iron Chlorosis</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Height</th>
<th>M</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standability</td>
<td>1</td>
</tr>
</tbody>
</table>

- Earliest Roundup Ready 2 Xtend® soybean in lineup
- Best-suited for northern N.D. and Minn.
- Strong IDC tolerance with excellent standability
- Acceptable PRR tolerance

### CP00710X
**Group**: 0.07 Days

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Not Recommended</th>
<th>Excellent</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRR Tolerance</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SDS Tolerance</td>
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<td></td>
</tr>
<tr>
<td>SWM Tolerance</td>
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<td></td>
</tr>
<tr>
<td>BSR Tolerance</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Iron Chlorosis</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Height</th>
<th>M</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stress Tolerance</td>
<td>N/A</td>
</tr>
<tr>
<td>Standability</td>
<td>2</td>
</tr>
</tbody>
</table>

- WinPak® variety consisting of CP00777X and CP00778X
- Higher-yielding replacement for CP00700X
- Strong IDC tolerance with excellent standability

### CP00729E
**Group**: 0.07 Days

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Not Recommended</th>
<th>Excellent</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRR Tolerance</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SDS Tolerance</td>
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<td></td>
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<tr>
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<td></td>
<td></td>
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<tr>
<td>Iron Chlorosis</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Height</th>
<th>M</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stress Tolerance</td>
<td>2</td>
</tr>
<tr>
<td>Standability</td>
<td>3</td>
</tr>
</tbody>
</table>

- 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

### CP00847X
**Group**: 0.08 Days

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Not Recommended</th>
<th>Excellent</th>
</tr>
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<tbody>
<tr>
<td>PRR Tolerance</td>
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</tr>
<tr>
<td>SDS Tolerance</td>
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<tr>
<td>Iron Chlorosis</td>
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</table>

<table>
<thead>
<tr>
<th>Height</th>
<th>MT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stress Tolerance</td>
<td>1</td>
</tr>
<tr>
<td>Standability</td>
<td>3</td>
</tr>
</tbody>
</table>

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

### CP00926X
**Group**: 0.09 Days

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Not Recommended</th>
<th>Excellent</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRR Tolerance</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SDS Tolerance</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SWM Tolerance</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BSR Tolerance</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Iron Chlorosis</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Height</th>
<th>M</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stress Tolerance</td>
<td>3</td>
</tr>
<tr>
<td>Standability</td>
<td>3</td>
</tr>
</tbody>
</table>

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

### CP0200X
**Group**: 0.2 Days

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Not Recommended</th>
<th>Excellent</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRR Tolerance</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SDS Tolerance</td>
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<td></td>
</tr>
<tr>
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<td></td>
<td></td>
</tr>
<tr>
<td>Iron Chlorosis</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Height</th>
<th>M</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stress Tolerance</td>
<td>2</td>
</tr>
<tr>
<td>Standability</td>
<td>3</td>
</tr>
</tbody>
</table>

- WinPak® variety consisting of CP0268X and CP0337X
- WinPak variety designed for variable acres and all yield environments
- Acceptable IDC tolerance; solid disease package
- Acceptable SWM tolerance
### Characteristics

<table>
<thead>
<tr>
<th>CP0264RR</th>
<th>Group: 0.2 Days</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Standability</strong></td>
<td>Acceptable tolerance</td>
</tr>
<tr>
<td><strong>Iron Chlorosis</strong></td>
<td>Excellent</td>
</tr>
<tr>
<td><strong>Chlorosis</strong></td>
<td>Excellent</td>
</tr>
<tr>
<td><strong>Height</strong></td>
<td>M</td>
</tr>
<tr>
<td><strong>Stress Tolerance</strong></td>
<td>1</td>
</tr>
<tr>
<td><strong>Emergence</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>Canopy Type</strong></td>
<td>Int</td>
</tr>
</tbody>
</table>

- Offensive companion product to CP0200RR
- Excellent stress tolerance for westward movement
- Excellent standability with acceptable emergence
- Avoid high-IDC fields; utilize seed treatments to improve PRR field tolerance

<table>
<thead>
<tr>
<th>CP0329E</th>
<th>Group: 0.3 Days</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Standability</strong></td>
<td>Excellent with emergence acceptable</td>
</tr>
<tr>
<td><strong>Iron Chlorosis</strong></td>
<td>Excellent</td>
</tr>
<tr>
<td><strong>Chlorosis</strong></td>
<td>Excellent</td>
</tr>
<tr>
<td><strong>Height</strong></td>
<td>M</td>
</tr>
<tr>
<td><strong>Stress Tolerance</strong></td>
<td>2</td>
</tr>
<tr>
<td><strong>Emergence</strong></td>
<td>1</td>
</tr>
<tr>
<td><strong>Canopy Type</strong></td>
<td>Int</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>CP0337X</th>
<th>Group: 0.3 Days</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Standability</strong></td>
<td>Excellent with emergence acceptable</td>
</tr>
<tr>
<td><strong>Iron Chlorosis</strong></td>
<td>Excellent</td>
</tr>
<tr>
<td><strong>Chlorosis</strong></td>
<td>Excellent</td>
</tr>
<tr>
<td><strong>Height</strong></td>
<td>M</td>
</tr>
<tr>
<td><strong>Stress Tolerance</strong></td>
<td>2</td>
</tr>
<tr>
<td><strong>Emergence</strong></td>
<td>1</td>
</tr>
<tr>
<td><strong>Canopy Type</strong></td>
<td>Int</td>
</tr>
</tbody>
</table>

- Also available in WinPak® variety CP0200XR
- Intermediate plant type with strong lateral expression for high-yield environments
- Excellent IDC tolerance, similar to CP0426X
- Acceptable PRR field tolerance with Rps1c gene

<table>
<thead>
<tr>
<th>CP0400X</th>
<th>Group: 0.4 Days</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Standability</strong></td>
<td>Acceptable tolerance</td>
</tr>
<tr>
<td><strong>Iron Chlorosis</strong></td>
<td>Excellent</td>
</tr>
<tr>
<td><strong>Chlorosis</strong></td>
<td>Excellent</td>
</tr>
<tr>
<td><strong>Height</strong></td>
<td>M</td>
</tr>
<tr>
<td><strong>Stress Tolerance</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Canopy Type</strong></td>
<td>-</td>
</tr>
<tr>
<td><strong>Emergence</strong></td>
<td>2</td>
</tr>
</tbody>
</table>

- WinPak® variety consisting of CP0411X and CP0426X
- Better yield potential and SWM tolerance to replace CP0500XR
- Strong IDC and PRR tolerance
- Manage for BSR areas

<table>
<thead>
<tr>
<th>CP0426X</th>
<th>Group: 0.4 Days</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Standability</strong></td>
<td>Excellent with emergence acceptable</td>
</tr>
<tr>
<td><strong>Iron Chlorosis</strong></td>
<td>Excellent</td>
</tr>
<tr>
<td><strong>Chlorosis</strong></td>
<td>Excellent</td>
</tr>
<tr>
<td><strong>Height</strong></td>
<td>M</td>
</tr>
<tr>
<td><strong>Stress Tolerance</strong></td>
<td>1</td>
</tr>
<tr>
<td><strong>Canopy Type</strong></td>
<td>-</td>
</tr>
<tr>
<td><strong>Emergence</strong></td>
<td>1</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>CP0520E</th>
<th>Group: 0.5 Days</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Standability</strong></td>
<td>Excellent with emergence acceptable</td>
</tr>
<tr>
<td><strong>Iron Chlorosis</strong></td>
<td>Excellent</td>
</tr>
<tr>
<td><strong>Chlorosis</strong></td>
<td>Excellent</td>
</tr>
<tr>
<td><strong>Height</strong></td>
<td>M</td>
</tr>
<tr>
<td><strong>Stress Tolerance</strong></td>
<td>2</td>
</tr>
<tr>
<td><strong>Canopy Type</strong></td>
<td>-</td>
</tr>
<tr>
<td><strong>Emergence</strong></td>
<td>1</td>
</tr>
</tbody>
</table>

- WinPak® variety consisting of CP0421E and CP0526E
- Strong IDC tolerance
- Acceptable SWM tolerance with strong standability

---

**KEY**

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 is a new component added to the WinPak® variety in 2020.
### CP0700X
**Group:** 0.7 Days

**Characteristics**

<table>
<thead>
<tr>
<th>PRR Tolerance</th>
<th>SDS Tolerance</th>
<th>SWM Tolerance</th>
<th>BSR Tolerance</th>
<th>Iron Chlorosis</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Standability
- Tolerance
- Height
- Chlorosis

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

### CP0721E
**Group:** 0.7 Days

**Characteristics**

<table>
<thead>
<tr>
<th>PRR Tolerance</th>
<th>SDS Tolerance</th>
<th>SWM Tolerance</th>
<th>BSR Tolerance</th>
<th>Iron Chlorosis</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Standability
- Tolerance
- Height
- Chlorosis

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

### CP0819X
**Group:** 0.8 Days

**Characteristics**

<table>
<thead>
<tr>
<th>PRR Tolerance</th>
<th>SDS Tolerance</th>
<th>SWM Tolerance</th>
<th>BSR Tolerance</th>
<th>Iron Chlorosis</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Standability
- Tolerance
- Height
- Chlorosis

**Recommended:**
- Also available in WinPak® variety CP0970X
- Excellent PRR field tolerance and strong stress tolerance across variable acres
- Strong performance on IDC-prone acres
- Manage placement on acres with significant SWM history

### CP0820E
**Group:** 0.8 Days

**Characteristics**

<table>
<thead>
<tr>
<th>PRR Tolerance</th>
<th>SDS Tolerance</th>
<th>SWM Tolerance</th>
<th>BSR Tolerance</th>
<th>Iron Chlorosis</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Standability
- Tolerance
- Height
- Chlorosis

**Recommended:**
- WinPak® variety consisting of CP0721E and CP0878X
- Rps1c.3a/NG PRR gene with strong PRR tolerance for PRR-prone acres
- Strong standability and acceptable IDC tolerance
- Acceptable SWM tolerance

### CP0957RR
**Group:** 0.9 Days

**Characteristics**

<table>
<thead>
<tr>
<th>PRR Tolerance</th>
<th>SDS Tolerance</th>
<th>SWM Tolerance</th>
<th>BSR Tolerance</th>
<th>Iron Chlorosis</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Standability
- Tolerance
- Height
- Chlorosis

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

### CP0970X
**Group:** 0.9 Days

**Characteristics**

<table>
<thead>
<tr>
<th>PRR Tolerance</th>
<th>SDS Tolerance</th>
<th>SWM Tolerance</th>
<th>BSR Tolerance</th>
<th>Iron Chlorosis</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Standability
- Tolerance
- Height
- Chlorosis

**Recommended:**
- WinPak® variety consisting of CP0819X and CP0978X
- Consistent yield potential for variable environments
- Strong on IDC and PRR prone acres
- Acceptable SWM tolerance

**KEY**

- Scale: 1 = Excellent, 2 = Strong, 3 = Acceptable, 4 = Manage, 5 = Not Recommended
- This symbol indicates that there has been a new component added to the WinPak® variety in 2023.

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

**CP1100X**
- Group: 1.3 Days

- **WinPak**

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRR Tolerance</td>
<td>3</td>
</tr>
<tr>
<td>SDS Tolerance</td>
<td>3</td>
</tr>
<tr>
<td>SWM Tolerance</td>
<td>3</td>
</tr>
<tr>
<td>BSR Tolerance</td>
<td>3</td>
</tr>
<tr>
<td>Iron Chlorosis</td>
<td>N/A</td>
</tr>
</tbody>
</table>

- Height: MT
- Standability: 2

**Standability**: Strong

- Also available in WinPak variety CP1078X and CP1111X
- Consistent performance for all yield environments tested
- Solid agronomics with strong IDC tolerance
- Acceptable SWM tolerance

**Use**: BSR-prone areas on caution areas

**Recommended**: Not Recommended

**Excellent**: Strong

**CP1111X**
- Group: 1.3 Days

- **WinPak**

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRR Tolerance</td>
<td>3</td>
</tr>
<tr>
<td>SDS Tolerance</td>
<td>3</td>
</tr>
<tr>
<td>SWM Tolerance</td>
<td>3</td>
</tr>
<tr>
<td>BSR Tolerance</td>
<td>3</td>
</tr>
<tr>
<td>Iron Chlorosis</td>
<td>N/A</td>
</tr>
</tbody>
</table>

- Height: M
- Standability: 1

**Standability**: Strong

**Characteristics**: With a strong IDC tolerance, this variety is adaptable to both high- and low-yield environments in 2019 supplier trials. Average white mold tolerance is enhanced with strong standability.

**Use**: With caution on BSR-prone areas

**Recommended**: Not Recommended

**Excellent**: Strong

**CP1120E**
- Group: 1.3 Days

- **WinPak**

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRR Tolerance</td>
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<tr>
<td>SDS Tolerance</td>
<td>3</td>
</tr>
<tr>
<td>SWM Tolerance</td>
<td>3</td>
</tr>
<tr>
<td>BSR Tolerance</td>
<td>3</td>
</tr>
<tr>
<td>Iron Chlorosis</td>
<td>3</td>
</tr>
</tbody>
</table>

- Height: M
- Standability: 1

**Characteristics**: Suitable for most yield environments.

**Recommended**: Not Recommended

**Excellent**: Strong

**CP1121E**
- Group: 1.3 Days

- **WinPak**

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRR Tolerance</td>
<td>3</td>
</tr>
<tr>
<td>SDS Tolerance</td>
<td>N/A</td>
</tr>
<tr>
<td>SWM Tolerance</td>
<td>3</td>
</tr>
<tr>
<td>BSR Tolerance</td>
<td>3</td>
</tr>
<tr>
<td>Iron Chlorosis</td>
<td>3</td>
</tr>
</tbody>
</table>

- Height: M
- Standability: 1

**Characteristics**: Excellent yield performance in both high- and low-yield environments in 2019 supplier trials.

**Recommended**: Not Recommended

**Excellent**: Strong

**CP1200L**
- Group: 1.2 Days

- **LibertyLink**

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRR Tolerance</td>
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</tr>
<tr>
<td>SDS Tolerance</td>
<td>3</td>
</tr>
<tr>
<td>SWM Tolerance</td>
<td>3</td>
</tr>
<tr>
<td>BSR Tolerance</td>
<td>3</td>
</tr>
<tr>
<td>Iron Chlorosis</td>
<td>3</td>
</tr>
</tbody>
</table>

- Height: MT
- Standability: 2

**Characteristics**: With LibertyLink technology, this variety consistently demonstrates excellent performance for yield, PRR, and white mold resistance.

**Recommended**: Not Recommended

**Excellent**: Strong

**CP1400X**
- Group: 1.4 Days

- **WinPak**

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRR Tolerance</td>
<td>3</td>
</tr>
<tr>
<td>SDS Tolerance</td>
<td>3</td>
</tr>
<tr>
<td>SWM Tolerance</td>
<td>3</td>
</tr>
<tr>
<td>BSR Tolerance</td>
<td>3</td>
</tr>
<tr>
<td>Iron Chlorosis</td>
<td>3</td>
</tr>
</tbody>
</table>

- Height: M
- Standability: 2

**Characteristics**: Suitable for most yield environments.

**Recommended**: Not Recommended

**Excellent**: Strong

**Key**

- Product descriptions and ratings are generated from Enlist® product trials and are subject to change as additional data is gathered.

- This symbol indicates that there has been a new component added to the WinPak® variety in 2020.
**CP1420E**

Group: 1.6 Days

**Characteristics**

<table>
<thead>
<tr>
<th>Trait</th>
<th>Not Recommended</th>
<th>Excellent</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRR Tolerance</td>
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<td>1</td>
</tr>
<tr>
<td>SDS Tolerance</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>SWM Tolerance</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>BSR Tolerance</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Iron Chlorosis</td>
<td>2</td>
<td>1</td>
</tr>
</tbody>
</table>

**Standability**

- Not recommended on BSR-prone fields
- Recommended on high-yield potential areas.
- Strong yield potential from east to west.
- Excellent standability with strong SWM tolerance.
- Manage on SWM and IDC tolerant climates.

**Height**

- MT

**Stress Tolerance**

- 2

**Canopy Type**

- Emergence

**Emergence Type**

- 1

**Canopy Type**

- 1

**Type**

- 1

**Recommended**

- Yes

**Not Recommended**

- Yes

**N/A**

- No

**Stress Tolerance**

- 2

**SDS Tolerance**

- 2

**SWM Tolerance**

- 2

**BSR Tolerance**

- 2

**Iron Chlorosis**

- 2

**Group**

- 1

**Environment**

- East

**Days**

- 1.7

**MT**

- 2

**Recommended**

- Yes

**Not Recommended**

- Yes

**N/A**

- No

**Stress Tolerance**

- 2

**PRR Tolerance**

- 2

**SDS Tolerance**

- 2

**SWM Tolerance**

- 2

**BSR Tolerance**

- 2

**Iron Chlorosis**

- 2

**Group**

- 7

**Environment**

- East

**Days**

- 1.9

**MT**

- 2

**Recommended**

- Yes

**Not Recommended**

- Yes

**N/A**

- No

**Stress Tolerance**

- 2

**PRR Tolerance**

- 2

**SDS Tolerance**

- 2

**SWM Tolerance**

- 2

**BSR Tolerance**

- 2

**Iron Chlorosis**

- 2

**Group**

- 6

**Environment**

- East

**Days**

- 1.6

**MT**

- 2

**Recommended**

- Yes

**Not Recommended**

- Yes

**N/A**

- No

**Stress Tolerance**

- 2

**PRR Tolerance**

- 2

**SDS Tolerance**

- 2

**SWM Tolerance**

- 2

**BSR Tolerance**

- 2

**Iron Chlorosis**

- 2

**Group**

- 1

**Environment**

- East

**Days**

- 1.9

**MT**

- 2

**Recommended**

- Yes

**Not Recommended**

- Yes

**N/A**

- No

**Stress Tolerance**

- 2

**PRR Tolerance**

- 2

**SDS Tolerance**

- 2

**SWM Tolerance**

- 2

**BSR Tolerance**

- 2

**Iron Chlorosis**

- 2

**Group**

- 8

**Environment**

- East

**Days**

- 1.6

**MT**

- 2

**Recommended**

- Yes

**Not Recommended**

- Yes

**N/A**

- No

**Stress Tolerance**

- 2

**PRR Tolerance**

- 2

**SDS Tolerance**

- 2

**SWM Tolerance**

- 2

**BSR Tolerance**

- 2

**Iron Chlorosis**

- 2

**Group**

- 1

**Environment**

- East

**Days**

- 1.9

**MT**

- 2

**Recommended**

- Yes

**Not Recommended**

- Yes

**N/A**

- No

**Stress Tolerance**

- 2

**PRR Tolerance**

- 2

**SDS Tolerance**

- 2

**SWM Tolerance**

- 2

**BSR Tolerance**

- 2

**Iron Chlorosis**

- 2
### Characteristics

<table>
<thead>
<tr>
<th>Variety</th>
<th>Group: 1.8 Days</th>
<th>Group: 1.9 Days</th>
<th>Group: 2 Days</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CP1827X</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>CP1960X</strong></td>
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<tr>
<td><strong>CP2021E</strong></td>
<td></td>
<td></td>
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<tr>
<td><strong>CP2120E</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td><strong>CP2128X</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>CP2200X</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Standability
- **CP1827X**: Tolerance
- **CP1960X**: Tolerance
- **CP2021E**: Tolerance
- **CP2120E**: Tolerance
- **CP2128X**: Tolerance
- **CP2200X**: Tolerance

#### Stress
- **CP1827X**: Tolerance
- **CP1960X**: Tolerance
- **CP2021E**: Tolerance
- **CP2120E**: Tolerance
- **CP2128X**: Tolerance
- **CP2200X**: Tolerance

#### Height
- **CP1827X**: MT
- **CP1960X**: MT
- **CP2021E**: MT
- **CP2120E**: MT
- **CP2128X**: MT
- **CP2200X**: MT

#### Chlorosis
- **CP1827X**: Tolerance
- **CP1960X**: Tolerance
- **CP2021E**: Tolerance
- **CP2120E**: Tolerance
- **CP2128X**: Tolerance
- **CP2200X**: Tolerance

#### Iron Tolerance
- **CP1827X**: Tolerance
- **CP1960X**: Tolerance
- **CP2021E**: Tolerance
- **CP2120E**: Tolerance
- **CP2128X**: Tolerance
- **CP2200X**: Tolerance

#### BSR Tolerance
- **CP1827X**: Tolerance
- **CP1960X**: Tolerance
- **CP2021E**: Tolerance
- **CP2120E**: Tolerance
- **CP2128X**: Tolerance
- **CP2200X**: Tolerance

#### SWM Tolerance
- **CP1827X**: Tolerance
- **CP1960X**: Tolerance
- **CP2021E**: Tolerance
- **CP2120E**: Tolerance
- **CP2128X**: Tolerance
- **CP2200X**: Tolerance

#### SDS Tolerance
- **CP1827X**: Acceptable
- **CP1960X**: Acceptable
- **CP2021E**: Acceptable
- **CP2120E**: Acceptable
- **CP2128X**: Acceptable
- **CP2200X**: Acceptable

#### PRR Tolerance
- **CP1827X**: Excellent
- **CP1960X**: Excellent
- **CP2021E**: Excellent
- **CP2120E**: Excellent
- **CP2128X**: Excellent
- **CP2200X**: Excellent

#### Days MT
- **CP1827X**: 2.1
- **CP1960X**: 2.1
- **CP2021E**: 2.1
- **CP2120E**: 2.1
- **CP2128X**: 2.1
- **CP2200X**: 2.1

#### Group
- **CP1827X**: X 2 P 2 C
- **CP1960X**: X 2 P 2 C
- **CP2021E**: X 2 P 2 C
- **CP2120E**: X 2 P 2 C
- **CP2128X**: X 2 P 2 C
- **CP2200X**: X 2 P 2 C

### Key

<table>
<thead>
<tr>
<th>Scale</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Excellent</td>
</tr>
<tr>
<td>2</td>
<td>Strong</td>
</tr>
<tr>
<td>3</td>
<td>Acceptable</td>
</tr>
<tr>
<td>4</td>
<td>Manageable</td>
</tr>
<tr>
<td>5</td>
<td>Not Recommended</td>
</tr>
</tbody>
</table>

This symbol indicates that there has been a new component added to the WinPak® variety in 2020.
<table>
<thead>
<tr>
<th>Characteristics</th>
<th>CP2321E</th>
<th>CP2400X</th>
<th>CP2520E</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PRR Tolerance</strong></td>
<td>Not Recommended</td>
<td>Excellent</td>
<td>Not Recommended</td>
</tr>
<tr>
<td><strong>SDS Tolerance</strong></td>
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<tr>
<td><strong>SWM Tolerance</strong></td>
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</tr>
<tr>
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<tr>
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<tr>
<td><strong>Stress Tolerance</strong></td>
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<tr>
<td><strong>Standability</strong></td>
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</tbody>
</table>

- National line that can move east to west
- Great defensive package that moves across yield environments
- Strong SWM and IDC tolerance; excellent BSR resistance
- Strong SDS tolerance

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>CP2521E</th>
<th>CP2529E</th>
<th>CP2578X</th>
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<tr>
<td><strong>Standability</strong></td>
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</tr>
</tbody>
</table>

- New Enlist E3® soybean with top end yield potential
- Excellent IDC and BSR tolerance
- Strong PRR field tolerance
- Use caution on SDS and SWM acres

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>CP2321E</th>
<th>CP2400X</th>
<th>CP2520E</th>
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<tbody>
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<td>Not Recommended</td>
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<td><strong>SDS Tolerance</strong></td>
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<td><strong>SWM Tolerance</strong></td>
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<td><strong>Standability</strong></td>
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</table>

- Also available in WinPak® variety CP2529E
- Top-end yield potential on prairie soils
- Peking SCN resistance with strong PRR and SDS tolerance
- Use caution on fields with history of IDC and BSR

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>CP2521E</th>
<th>CP2400X</th>
<th>CP2520E</th>
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<tbody>
<tr>
<td><strong>PRR Tolerance</strong></td>
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<td><strong>Standability</strong></td>
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</table>

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

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>CP2521E</th>
<th>CP2400X</th>
<th>CP2520E</th>
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<td><strong>SDS Tolerance</strong></td>
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<td><strong>Standability</strong></td>
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</tbody>
</table>

- WinPak® variety consisting of CP2521E and CP2529E
- Best-suited for productive prairie soils, strong performance across Iowa and Ill.
- Strong stress tolerance with excellent emergence
- Acceptable on IDC-prone acres

**KEY**

<table>
<thead>
<tr>
<th>Scale</th>
<th>Description</th>
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<tbody>
<tr>
<td>1</td>
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<td>3</td>
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<tr>
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This symbol indicates that there has been a new component added to the WinPak® variety in 2020.
### Characteristics

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<td><strong>SWM Tolerance</strong></td>
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<td><strong>Height</strong></td>
<td>MT</td>
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<tr>
<td><strong>Stress Tolerance</strong></td>
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</tr>
<tr>
<td><strong>Standability</strong></td>
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</tr>
</tbody>
</table>

- WinPak® variety consisting of CP2677X and CP2877X
- Central to Eastern variety best-positioned in well-drained, fertile soils
- Excellent emergence with strong BSR resistance; acceptable IDC rating and strong stress tolerance
- Manage for areas with heavy SWM pressure

### Characteristics

<table>
<thead>
<tr>
<th>CP2708X</th>
<th>Group: 2.7 Days</th>
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</thead>
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<tr>
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<td><strong>SWM Tolerance</strong></td>
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<tr>
<td><strong>Stress Tolerance</strong></td>
<td>2</td>
</tr>
<tr>
<td><strong>Standability</strong></td>
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</tr>
</tbody>
</table>

- Roundup Ready 2 Xtend® variety for Nebraska and Western geographies
- Excellent IDC tolerance
- Medium plant height with excellent standability
- Caution on SWM- and SDS-prone fields

### Characteristics

<table>
<thead>
<tr>
<th>CP2829E</th>
<th>Group: 2.8 Days</th>
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</thead>
<tbody>
<tr>
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<tr>
<td><strong>SDS Tolerance</strong></td>
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<td><strong>SWM Tolerance</strong></td>
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<td><strong>Iron Chlorosis</strong></td>
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<td><strong>Height</strong></td>
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<tr>
<td><strong>Stress Tolerance</strong></td>
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</tr>
<tr>
<td><strong>Standability</strong></td>
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</tr>
</tbody>
</table>

- Also available in WinPak® variety CP2920E
- Excellent stress, BSR and PRR tolerance
- Strong IDC, standability and emergence
- Use appropriate seed treatment in areas prone to SDS

### Characteristics

<table>
<thead>
<tr>
<th>CP2820E</th>
<th>Group: 2.9 Days</th>
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</thead>
<tbody>
<tr>
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<tr>
<td><strong>SDS Tolerance</strong></td>
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<tr>
<td><strong>SWM Tolerance</strong></td>
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<tr>
<td><strong>Iron Chlorosis</strong></td>
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<tr>
<td><strong>Height</strong></td>
<td>MT</td>
</tr>
<tr>
<td><strong>Stress Tolerance</strong></td>
<td>1</td>
</tr>
<tr>
<td><strong>Standability</strong></td>
<td>2</td>
</tr>
</tbody>
</table>

- WinPak® variety consisting of CP2820E and CP2920E
- National variety moves east to west
- Excellent standability and plant integrity under stress
- Manage in areas with a history of SWM and SDS

### Characteristics

<table>
<thead>
<tr>
<th>CP2960X</th>
<th>Group: 2.9 Days</th>
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</thead>
<tbody>
<tr>
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<td><strong>Height</strong></td>
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<tr>
<td><strong>Stress Tolerance</strong></td>
<td>1</td>
</tr>
<tr>
<td><strong>Standability</strong></td>
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</tbody>
</table>

- WinPak® variety consisting of CP2817X and CP2917X
- Highly versatile WinPak® variety designed for the East
- Solid disease and agronomic package
- Manage with seed treatment and use caution in IDC areas

### Characteristics

<table>
<thead>
<tr>
<th>CP3057XS</th>
<th>Group: 3 Days</th>
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<tbody>
<tr>
<td><strong>PRR Tolerance</strong></td>
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<td><strong>Height</strong></td>
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<tr>
<td><strong>Stress Tolerance</strong></td>
<td>1</td>
</tr>
<tr>
<td><strong>Standability</strong></td>
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</tr>
</tbody>
</table>

- 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

- **Legend**
  This symbol indicates that there has been a new component added to the WinPak® variety in 2020.
Standability Tolerance Stress Height Chlorosis Iron Tolerance BSR Tolerance SWM Tolerance SDS Tolerance PRR Tolerance

**Standability**
- **Tolerance**
- **Stress**
- **Height**
- **Chlorosis**
- **Iron Tolerance**
- **BSR Tolerance**
- **SWM Tolerance**
- **SDS Tolerance**
- **PRR Tolerance**

**Characteristics**

<table>
<thead>
<tr>
<th>Variety</th>
<th>Group</th>
<th>Characteristics</th>
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</thead>
<tbody>
<tr>
<td>CP3110X</td>
<td>3.3 Days</td>
<td>PRR Tolerance</td>
</tr>
<tr>
<td>CP3120E</td>
<td>3.3 Days</td>
<td>PRR Tolerance</td>
</tr>
<tr>
<td>CP3321E</td>
<td>3.3 Days</td>
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<tr>
<td>CP3360X</td>
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</tr>
<tr>
<td>CP3450X</td>
<td>3.4 Days</td>
<td>PRR Tolerance</td>
</tr>
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</table>

**WinPack® variety consisting of CP3110X and CP3298X**
- Best kept in RM zone or south
- Excellent PRR field tolerance with solid defensive characteristics; strong standability and emergence
- Use caution in IDC-prone areas

**WinPack® variety consisting of CP3120E and CP3313E**
- Excellent stress tolerance allows movement east to west
- Strong IDC and PRR tolerance
- Acceptable standability and FELS tolerance

**WinPack® variety consisting of CP3321E and CP3398X**
- Broadly adapted variety that moves east to west
- Strong IDC and PRR tolerance
- Excellent stress tolerance and emergence
- Acceptable standability, FELS and BSR tolerance

**WinPack® variety consisting of CP3360X and CP3478X**
- High yield-potential variety moves across soil types and yield environments
- Excellent field tolerance; strong emergence, standability and stress tolerance
- Acceptable IDC tolerance

**WinPack® variety consisting of CP3429E and CP3455X**
- Best-suited for eastern Ill., Ind. and Ohio
- Excellent stress tolerance with top-end yield potential
- Excellent standability; strong emergence and PRR field tolerance
- Manage in areas with SDS history; use fungicide application to manage FELS

**WinPack® variety consisting of CP3450X and CP3556X**
- Versatile product with high yield potential; optimize yield with management
- Medium height plant with strong standability
- Manage with seed treatment; acceptable PRR and SDS tolerance

**Characteristics**

<table>
<thead>
<tr>
<th>Variety</th>
<th>Group</th>
<th>PRR Tolerance</th>
<th>SDS Tolerance</th>
<th>SWM Tolerance</th>
<th>BSR Tolerance</th>
<th>Iron Chlorosis</th>
<th>Height</th>
<th>MT</th>
<th>Canopy Type</th>
<th>Emergence</th>
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<td>-</td>
<td>-</td>
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**Group:**
- **3** P 0 X 3 C
- **1** P 0 X 1 C
- **4** P 9 X 3 E
- **2** P 3 E C
- **0** P 3 C
- **4** P 9 X 3 E
- **2** P 3 E C
- **0** P 3 C

**Days:**
- **MT**
- **3.1**
- **3.3**

**Canopy Type:**
- **Int/Nar**
- **Int/Bush**
- **0**

**Recommended:**
- **Recommended**
- **Not Recommended**
- **N/A**

**Standability:**
- **Acceptable**
- **Excellent**
- **Strong**
- **Medium**
- **Low**
- **Not Recommended**

**Product descriptions and ratings are generated from Amos Pk® 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 WinPack® variety in 2020.
### Characteristics

<table>
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<td>SDS Tolerance</td>
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<td>SWM Tolerance</td>
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</tr>
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<td>BSR Tolerance</td>
<td>Not Recommended, Excellent</td>
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<td>Iron Chlorosis</td>
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<td>Stress Tolerance</td>
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<tr>
<td>Standability</td>
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- Also available in WinPak® CP3460X
- Versatile variety with high yield potential
- Strong PRR and BSR tolerance
- Acceptable IDC and SDS tolerance

### Characteristics

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<th>Variety</th>
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<td>SWM Tolerance</td>
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<td>BSR Tolerance</td>
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</tr>
<tr>
<td>Iron Chlorosis</td>
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</tr>
<tr>
<td>Height</td>
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<tr>
<td>Stress Tolerance</td>
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</tr>
<tr>
<td>Standability</td>
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</tbody>
</table>

- WinPak® variety consisting of CP3621E and CP3629E
- High yield potential; moves well across soil types
- Strong stress tolerance and late-season standability
- Fungicide application recommended to maximize grain fill

### Characteristics

<table>
<thead>
<tr>
<th>Variety</th>
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</tr>
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<tbody>
<tr>
<td><strong>CP3629E</strong></td>
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<tr>
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</tbody>
</table>

- Offensive variety with a solid stress tolerance and defensive package
- National variety moves east to west
- Excellent FELS tolerance and standability
- Manage in areas with SDS history; use caution on BSR and IDC acres

### Characteristics

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<tr>
<td>Frogeye Leaf spot</td>
<td>Not Recommended, Excellent</td>
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<tr>
<td>Root-Knot Nematode</td>
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<td>Standability</td>
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</table>

- Excluder variety also available in WinPak® variety CP3850X
- High yield potential with ability to handle variability
- Solid agronomics and disease package
- Manage with seed treatment and population; acceptable standability

### Characteristics

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<thead>
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<tr>
<td>Frogeye Leaf spot</td>
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<td>Southern Stem Canker</td>
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<tr>
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</tr>
<tr>
<td>Standability</td>
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</table>

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

### Characteristics

<table>
<thead>
<tr>
<th>Variety</th>
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<td>Southern Stem Canker</td>
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<tr>
<td>Root-Knot Nematode</td>
<td>Not Recommended, Excellent</td>
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<td>Stress Tolerance</td>
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<tr>
<td>Standability</td>
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</tbody>
</table>

- Durable STS®-tolerant variety best placed in Central and Western states
- Bushy plant type with the ability to handle stress
- Excellent FELS tolerance to maximize late-season grain fill
- Use caution on acres prone to BSR and IDC

### KEY

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</tr>
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<td>5</td>
<td>Not Recommended</td>
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</table>

This symbol indicates that there has been a new component added to the WinPak® variety in 2020.
### Characteristics of CP3850X
- **Group:** 3.8 Days

<table>
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<tr>
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</tr>
<tr>
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</table>

- **Height**: MT
- **Stress Tolerance**: 4
- **Standability**: 2

- **Characteristics**:
  - WinPak variety consisting of CP3747XS and CP3819X
  - Position and manage for top-end yield potential
  - Solid PRR field tolerance and emergence
  - Manage FELS with fungicide application; keep on rotated acres

### Characteristics of CP3896X
- **Group:** 3.8 Days

<table>
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<tbody>
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</tr>
<tr>
<td>Root-Knot Nematode</td>
<td>N/A</td>
<td>4</td>
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</tbody>
</table>

- **Height**: MT
- **Stress Tolerance**: 1
- **Standability**: 3

- **Characteristics**: Offers stable yield performance with good stress tolerance and top-end potential
- Works from the Midwest to the East Coast
- Excellent BSR and PRR field tolerance; quick canopy with CP4391RRR background
- Manage for stem canker, RKN and in IDC areas

### Characteristics of CP3920E
- **Group:** 3.9 Days

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<tr>
<th>Characteristics</th>
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<tbody>
<tr>
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</tr>
<tr>
<td>Root-Knot Nematode</td>
<td>N/A</td>
<td>3</td>
</tr>
</tbody>
</table>

- **Height**: MT
- **Stress Tolerance**: 1
- **Standability**: 2

- **Characteristics**: WinPak variety consisting of CP3921E and CP4029E
- Stable WinPak that performance across yield environments
- Excellent emergent seedling emergence and stress tolerance
- Manage for SDS and BSR in susceptible fields

### Characteristics of CP3921E
- **Group:** 3.9 Days

<table>
<thead>
<tr>
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<tbody>
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</tr>
<tr>
<td>Root-Knot Nematode</td>
<td>N/A</td>
<td>1</td>
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</tbody>
</table>

- **Height**: MT
- **Stress Tolerance**: 1
- **Standability**: 2

- **Characteristics**:
  - High-yield-potential variety made for ill. and moving east
  - Moves well across yield environments north and south of zone
  - Excellent SSC tolerance; strong standability late season
  - Manage PPR with seed treatment in susceptible fields

### Characteristics of CP4029E
- **Group:** 4 Days

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<tbody>
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<tr>
<td>Frogeye Leaf spot</td>
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<td>3</td>
</tr>
<tr>
<td>Root-Knot Nematode</td>
<td>N/A</td>
<td>3</td>
</tr>
</tbody>
</table>

- **Height**: MT
- **Stress Tolerance**: 1
- **Standability**: 2

- **Characteristics**: Medium-tall line; intermediate canopy; solid standability
- National line that moves east to west and into Mid-South
- SSC resistance, solid FELS tolerance; excellent emergence and stress tolerance
- Use caution on acres prone to BSR and RKN

### Characteristics of CP4117XS
- **Group:** 4.1 Days

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</tr>
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<tbody>
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<tr>
<td>Root-Knot Nematode</td>
<td>N/A</td>
<td>1</td>
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</tbody>
</table>

- **Height**: MT
- **Stress Tolerance**: 1
- **Standability**: 2

- **Characteristics**: Also available in WinPak variety CP4150XS
- Top-end yield potential; moves across soil types and yield environments
- Intermediate-bushy plant with strong standability and excellent stress tolerance
- Fungicide application recommended to manage FELS; manage for RKN
### CP4150XS
**Group:** 4.1 Days

#### Characteristics

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<tbody>
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<td>Southern Stem Canker</td>
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</tr>
<tr>
<td>Root-Knot Nematode</td>
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</tbody>
</table>

- Standability: 2
- Height: MT
- Stress Tolerance: 1

**Standability**

- **Tolerance**: Excellent
- **Stress**: Tolerance
- **Height**: N/A
- **Nematode**: Root-Knot
- **Root-Knot Canker**: Not Recommended
- **Stem**: Not Recommended
- **Southern Spot**: Not Recommended
- **Leaf Spot**: Not Recommended
- **Frogeye**: Not Recommended
- **SDS**: Tolerance
- **Tolerance**: PRR

**Characteristics**

- **Placement**: on RKN-prone acres
- **Standability and Emergence**: Excellent
- **Soils**: Excellent on RKN-prone acres
- **Planting**: loam type fits lighter soils
- **Adaptable**: south with agronomic
- **Yield**: CP4221E with STS®
- **Management**: FELS
- **Nitrogen**: Recommended for high yield and FELS

### CP4220E
**Group:** 4.2 Days

#### Characteristics

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</table>

- Height: MT
- Canopy Type: Int
- Standability: 1
- Stress Tolerance: 2

**Standability**

- **Tolerance**: Excellent
- **Stress**: Tolerance
- **Height**: N/A
- **Nematode**: Root-Knot
- **Root-Knot Canker**: Not Recommended
- **Stem**: Not Recommended
- **Southern Spot**: Not Recommended
- **Leaf Spot**: Not Recommended
- **Frogeye**: Not Recommended
- **SDS**: Tolerance
- **Tolerance**: PRR

**Characteristics**

- **Placement**: on RKN-prone acres
- **Standability and Emergence**: Excellent
- **Soils**: Excellent on RKN-prone acres
- **Planting**: loam type fits lighter soils
- **Adaptable**: south with agronomic
- **Yield**: CP4221E with STS®
- **Management**: FELS
- **Nitrogen**: Recommended for high yield and FELS

### CP4316XS
**Group:** 4.3 Days

#### Characteristics

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<tr>
<td>Root-Knot Nematode</td>
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</table>

- Height: MT
- Canopy Type: Int
- Standability: 5
- Stress Tolerance: 2

**Standability**

- **Tolerance**: Excellent
- **Stress**: Tolerance
- **Height**: N/A
- **Nematode**: Root-Knot
- **Root-Knot Canker**: Not Recommended
- **Stem**: Not Recommended
- **Southern Spot**: Not Recommended
- **Leaf Spot**: Not Recommended
- **Frogeye**: Not Recommended
- **SDS**: Tolerance
- **Tolerance**: PRR

**Characteristics**

- **Placement**: on RKN-prone acres
- **Standability and Emergence**: Excellent
- **Soils**: Excellent on RKN-prone acres
- **Planting**: loam type fits lighter soils
- **Adaptable**: south with agronomic
- **Yield**: CP4221E with STS®
- **Management**: FELS
- **Nitrogen**: Recommended for high yield and FELS

### CP4331ES
**Group:** 4.3 Days

#### Characteristics

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<tr>
<td>Root-Knot Nematode</td>
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</tbody>
</table>

- Height: MT
- Canopy Type: Int
- Standability: 1
- Stress Tolerance: 2

**Standability**

- **Tolerance**: Excellent
- **Stress**: Tolerance
- **Height**: N/A
- **Nematode**: Root-Knot
- **Root-Knot Canker**: Not Recommended
- **Stem**: Not Recommended
- **Southern Spot**: Not Recommended
- **Leaf Spot**: Not Recommended
- **Frogeye**: Not Recommended
- **SDS**: Tolerance
- **Tolerance**: PRR

**Characteristics**

- **Placement**: on RKN-prone acres
- **Standability and Emergence**: Excellent
- **Soils**: Excellent on RKN-prone acres
- **Planting**: loam type fits lighter soils
- **Adaptable**: south with agronomic
- **Yield**: CP4221E with STS®
- **Management**: FELS
- **Nitrogen**: Recommended for high yield and FELS

### CP4419XS
**Group:** 4.4 Days

#### Characteristics

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</tr>
<tr>
<td>Root-Knot Nematode</td>
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</table>

- Height: MT
- Canopy Type: Int
- Standability: 2
- Stress Tolerance: 2

**Standability**

- **Tolerance**: Excellent
- **Stress**: Tolerance
- **Height**: N/A
- **Nematode**: Root-Knot
- **Root-Knot Canker**: Not Recommended
- **Stem**: Not Recommended
- **Southern Spot**: Not Recommended
- **Leaf Spot**: Not Recommended
- **Frogeye**: Not Recommended
- **SDS**: Tolerance
- **Tolerance**: PRR

**Characteristics**

- **Placement**: on RKN-prone acres
- **Standability and Emergence**: Excellent
- **Soils**: Excellent on RKN-prone acres
- **Planting**: loam type fits lighter soils
- **Adaptable**: south with agronomic
- **Yield**: CP4221E with STS®
- **Management**: FELS
- **Nitrogen**: Recommended for high yield and FELS

### CP4516XS
**Group:** 4.5 Days

#### Characteristics

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<tr>
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</table>

- Height: MT
- Canopy Type: Int
- Standability: 2
- Stress Tolerance: 2

**Standability**

- **Tolerance**: Excellent
- **Stress**: Tolerance
- **Height**: N/A
- **Nematode**: Root-Knot
- **Root-Knot Canker**: Not Recommended
- **Stem**: Not Recommended
- **Southern Spot**: Not Recommended
- **Leaf Spot**: Not Recommended
- **Frogeye**: Not Recommended
- **SDS**: Tolerance
- **Tolerance**: PRR

**Characteristics**

- **Placement**: on RKN-prone acres
- **Standability and Emergence**: Excellent
- **Soils**: Excellent on RKN-prone acres
- **Planting**: loam type fits lighter soils
- **Adaptable**: south with agronomic
- **Yield**: CP4221E with STS®
- **Management**: FELS
- **Nitrogen**: Recommended for high yield and FELS

---

**Additional Information**

- **4.3 STS® line with good agronomic package that can move south**
- **Medium plant type that fits well on lighter loam soils**
- **Excellent emergence and standability**
- **Manage placement on RKN-prone acres**

- **4.3 STS®-tolerant, tough-acre variety**
- **Moves north of zone; shows strong performance from Kan. to Ill.**
- **Excellent SSC tolerance; solid PRR, SDS and FELS tolerance**
- **Manage populations to control standability and plant height**

- **STS® and excluder variety**
- **Widely adaptable across environments**
- **Intermediate line with excellent SSC and FELS tolerance**
- **Manage populations to improve standability**
### CP4520XS
**Group:** 4.5 Days

#### Characteristics

<table>
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<tr>
<th>Characteristic</th>
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<td>SDS Tolerance</td>
<td>1</td>
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<tr>
<td>Frogeye Leaf spot</td>
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</tr>
<tr>
<td>Southern Stem Canker</td>
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</tr>
<tr>
<td>Root-Knot Nematode</td>
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</tr>
</tbody>
</table>

- **Height:** MT
- **Stress Tolerance:** 2
- **Standability:** 2

*WinPak® variety consisting of CP4516XS and CP4619XS*
*Strong PRR, SDS and FELs tolerance*
*Strong standability*

### CP4521E
**Group:** 4.5 Days

#### Characteristics

<table>
<thead>
<tr>
<th>Characteristic</th>
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<th>Excellent</th>
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</thead>
<tbody>
<tr>
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<tr>
<td>Root-Knot Nematode</td>
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</tr>
</tbody>
</table>

- **Height:** MT
- **Stress Tolerance:** 2
- **Standability:** 2

*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*

### CP4719XS
**Group:** 4.7 Days

#### Characteristics

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<tbody>
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<tr>
<td>Root-Knot Nematode</td>
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</tbody>
</table>

- **Height:** MT
- **Stress Tolerance:** 2
- **Standability:** 2

*STS® variety; SSC resistant*
*Excellent emergence and stress tolerance*
*Strong FELs tolerance*
*Tolerant rating for metribuzin*

### CP4810XS
**Group:** 4.8 Days

#### Characteristics

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<tbody>
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- **Height:** M
- **Stress Tolerance:** 2
- **Standability:** 2

*STS®-tolerant WinPak® variety consisting of CP4719XS and CP4817XS*
*Acceptable FELs and SSC tolerance; excluder variety*
*Medium plant height; strong emergence and standability*
*Manage placement in RKN-prone acres*

### CP4811XS
**Group:** 4.8 Days

#### Characteristics

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<tbody>
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- **Height:** M
- **Stress Tolerance:** N/A
- **Standability:** 2

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

### CP4825X
**Group:** 4.8 Days

#### Characteristics

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</table>

- **Height:** M
- **Stress Tolerance:** 2
- **Standability:** 1

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

<table>
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<tr>
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<tbody>
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<td>Root-Knot Nematode</td>
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- Height: MT
- Stress Tolerance: 2
- Standability: 3

**CP4921ES**

- Group: 4.9 Days
- Enlist E3® STS® variety designed for tough yield environments
- Strong FELS tolerance; excellent emergence in variable conditions
- Strong stress tolerance and acceptable standability
- Manage placement in RKN-prone areas

---

### Characteristics

<table>
<thead>
<tr>
<th>PRR Tolerance</th>
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<th>Excellent</th>
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<tr>
<td>Root-Knot Nematode</td>
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</table>

- Height: MT
- Stress Tolerance: 2
- Standability: 2

**CP5010XS**

- Group: 5 Days
- STS® WinPak® variety consisting of CP5019XS and CP5019XS
- High yield potential; strong stress tolerance; handles variability
- Excellent SDS and SSC tolerance
- Manage for FELS and RKN-prone areas

---

### Characteristics

<table>
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<th>PRR Tolerance</th>
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<th>Excellent</th>
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<td>Root-Knot Nematode</td>
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</table>

- Height: M
- Stress Tolerance: N/A
- Standability: 1

**CP5221X**

- Group: 5.2 Days
- Medium-narrow plant adaptable across many soil types
- Strong emergence and standability
- Acceptable tolerance to PRR, SCN and SSC
- Acceptable tolerance to RKN

---

### Characteristics

<table>
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<tr>
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<td>Root-Knot Nematode</td>
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</table>

- Height: T
- Stress Tolerance: 2
- Standability: 2

**CP5427X**

- Group: 5.4 Days
- Determinate soybean with intermediate plant type
- Position on loams to mixed soil types in West and Delta
- Resistant to both southern and peanut RKN; excellent SSC and FELS tolerance; excellent standability
- Not recommended in SDS-prone areas

---

### Characteristics

<table>
<thead>
<tr>
<th>PRR Tolerance</th>
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</tr>
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<tr>
<td>Root-Knot Nematode</td>
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</tbody>
</table>

- Height: T
- Stress Tolerance: 1
- Standability: 4

**CP5548X**

- Group: 5.5 Days
- Determine, excluider and Poking variety with top-end yield potential
- Best-suited for the Delta and East Coast across most soil types
- Resistant to both peanut and southern RKN; excellent FELS rating; tolerance to metribuzin
- Tall variety; manage populations to improve standability

---

### Characteristics

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<thead>
<tr>
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</thead>
<tbody>
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<td></td>
</tr>
<tr>
<td>Root-Knot Nematode</td>
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<td></td>
</tr>
</tbody>
</table>

- Height: T
- Stress Tolerance: 2
- Standability: 2

**CP5555LS**

- Group: 5.5 Days
- Determinate; versatile LibertyLink® variety with great top-end yield potential
- STS®-tolerant stack that is an excluider
- Excellent stem canker rating
- Not recommended for fields with high PRR pressure

---

### Characteristics

<table>
<thead>
<tr>
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<td></td>
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<tr>
<td>Root-Knot Nematode</td>
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</tr>
</tbody>
</table>

- Height: T
- Stress Tolerance: 2
- Standability: 2

**CP5555S**

- Group: 5.5 Days
- Medium-narrow plant adaptable across many soil types
- Strong emergence and standability
- Acceptable tolerance to PRR, SCN and SSC
- Acceptable tolerance to RKN
**Characteristics**

**CP6208X**  
Group: 6.2 Days

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

**CP6519XS**  
Group: 6.5 Days

- Excluder and STS®-tolerant variety
- Well-adapted for East Coast
- RKN resistant
- Acceptable FELS and PRR tolerance

**CP7221X**  
Group: 7.2 Days

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

**CP7516X**  
Group: 7.5 Days

- Determinate Roundup Ready 2 Xtend® variety
- Performs best in N.C.
- Moderately resistant to target spot
- Tolerance to metribuzin, but susceptible to saflufenacil
SOYBEAN

WinPak® seed components only. Not for sale individually.

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.

8 Pod Color
TN = Tan
BR = Brown

6 Flower Color
P = Purple
W = White

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

This symbol indicates that there has been a new component added to the WinPak® variety for 2021.

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.

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

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

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

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

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

### WinPak® Variety Components

<table>
<thead>
<tr>
<th>Variety</th>
<th>Relative Maturity</th>
<th>Relative Maturity</th>
<th>Chloride Tolerance</th>
<th>SDS Tolerance</th>
<th>BSR Tolerance</th>
<th>SWM Tolerance</th>
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<th>PRR Gene</th>
<th>Stress Tolerance</th>
<th>Emergence</th>
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ROUNDUP READY 2 XTEND®/ROUNDUP READY 2 YIELD® – RM: 0.0-0.9
WinPak® seed components only. Not for sale individually.

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.

### Key

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

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

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

- **Pubescence Type**
  - GR = Gray
  - TW = Tawny
  - LTW = Light Tawny

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

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

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

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

- **SCN Resistant Source**
  - Peking
  - PI88.788

### Varieties

<table>
<thead>
<tr>
<th>Variety</th>
<th>PRR Gene</th>
<th>SCN Resistant Source</th>
<th>Relative Maturity</th>
<th>Determinate/Indeterminate</th>
<th>PRR Tolerance</th>
<th>Chloride Tolerance</th>
<th>SDS Tolerance</th>
<th>BSR Tolerance</th>
<th>SWM Tolerance</th>
<th>Iron Chlorosis</th>
<th>Standability</th>
<th>Stress Tolerance</th>
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</table>
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.

### Key

- **Hilum Color**
  - YE = Yellow/Clear
  - GR = Gray
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  - BR = Brown
  - BF = Buff
  - SL = Slate
  - TN = Tan

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

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

- **Pubescence Type**
  - GR = Gray
  - TW = Tawny
  - LTW = Light Tawny

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

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

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

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

- **SCN Resistant Source**
  - Peking
  - PI88.788

### Variety Components

| Variety | Relative Maturity | PRR Gene | Chloride Tolerance | SDS Tolerance | BSR Tolerance | SWM Tolerance | Iron Chlorosis | SCN Resistant Source | PRR Tolerance | Cost
|---------|-------------------|----------|---------------------|---------------|---------------|---------------|----------------|----------------------|---------------|------
| CP2088X* | 2.0-2.9 | | | | | | | | | NEW
| CP2128X | 2.1 | IND | | | | | | | SOYBEAN
| CP2200X | 2.4 | IND | | | | | | | SOYBEAN
| CP2219X* | 2.1 | IND | | | | | | | SOYBEAN
| CP2400X | 2.4 | IND | | | | | | | SOYBEAN
| CP2487X* | 2.4 | IND | | | | | | | SOYBEAN
| CP2578X | 2.5 | IND | | | | | | | SOYBEAN
| CP2677X* | 2.6 | IND | | | | | | | SOYBEAN
| CP2700X | 2.7 | IND | | | | | | | SOYBEAN
| CP2708X | 2.7 | IND | | | | | | | SOYBEAN
| CP2817X* | 2.8 | IND | | | | | | | SOYBEAN
| CP2960X | 2.9 | IND | | | | | | | SOYBEAN
| CP2977X* | 2.9 | IND | | | | | | | SOYBEAN

WinPak® Variety Components

- **Standability**
- **Stress Tolerance**
- **Emergence**

NEW ROUNDUP READY 2 XTEND®/ROUNDUP READY 2 YIELD® – RM: 2.0-2.9
WinPak® seed components only. Not for sale individually.

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- BL: Black
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- BR: Brown
- BF: Buff
- SL: Slate
- TN: Tan

Pod Color
- TN: Tan
- BR: Brown

Flower Color
- P: Purple
- W: White

Pubescence Type
- GR: Gray
- TW: Tawny
- LTW: Light Tawny

Key
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.

Canopy Type
- Nar: Narrow
- Int: Intermediate
- Bush: Bushy

Plant Height
- T: Tall
- M: Medium
- S: Short

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

PRR Gene
- Rps: Resistance to Phytophthora sojae
- HRps: Heterozygous segregating Rps occurrence

SCN Resistant Source
1 SCN Resistant Source
- Peking
- PI88.788

CNV Resistant Source
1 CNV Resistant Source
- PI96.789

Roundup Ready 2 XTS/Roundup Ready 2 YIELD® – RM: 3.0-3.9

Relative Maturity
- Determinate/Indeterminate

PRR Tolerance
- Chloride Tolerance
- SDS Tolerance
- BSR Tolerance
- SWM Tolerance
- Iron Chlorosis

Root-Knot Nematode
- 1

Frogeye Leaf Spot
- 3

Bacterial Brown Spot
- 1

Southern Stem Canker
- 3
WinPak® seed components only. Not for sale individually.

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.

### Key

<table>
<thead>
<tr>
<th>Scale</th>
<th>Description</th>
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<tr>
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</tr>
<tr>
<td>2</td>
<td>Strong</td>
</tr>
<tr>
<td>3</td>
<td>Acceptable</td>
</tr>
<tr>
<td>4</td>
<td>Manage</td>
</tr>
<tr>
<td>5</td>
<td>Not Recommended</td>
</tr>
</tbody>
</table>

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

### Hilum Color

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

### Pod Color

- TN = Tan
- BR = Brown

### Flower Color

- P = Purple
- W = White

### Pubescence Type

- GR = Gray
- TW = Tawny
- LTW = Light Tawny

### Canopy Type

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

### Plant Height

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

### Southern Stem Canker and Root-Knot Nematode

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

### PRR Gene

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

### SCN Resistant Source

- Peking
- PI88.788

### Roundup Ready 2 Xtend®/Roundup Ready 2 Yield® – RM

#### Relative Maturity

Determinate/Indeterminate

#### PRR Tolerance

Chloride Tolerance

#### SDS Tolerance

BSR Tolerance

#### SWM Tolerance

Iron Chlorosis

#### Root-Knot Nematode
WinPak® seed components only. Not for sale individually.

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### Key
- **Hilum Color**
  - YE = Yellow/Clear
  - GR = Gray
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  - IB = Imperfect Black
  - BR = Brown
  - BF = Buff
  - SL = Slate
  - TN = Tan

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

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

- **Pubescence Type**
  - GR = Gray
  - TW = Tawny
  - LTW = Light Tawny

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

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

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

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

### SCN Resistant Source
- **Varieties**
  - *Peking* contains SCN resistance genes from the Peking soybean breeding lines
  - *PI88.788* contains SCN resistance genes from the PI88.788 soybean breeding lines

### Relative Maturity
- **Determinate/Indeterminate**

### Chloride Tolerance

### SDS Tolerance

### BSR Tolerance

### SWM Tolerance

### Iron Chlorosis

### SCN Resistant Source

### NEW

### ROUNDUP READY 2 XTEND®/ROUNDUP READY 2 YIELD® – RM: 5.0-7.9
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.

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

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

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

**Pubescence Type**
- **GR** = Gray
- **TW** = Tawny
- **LTW** = Light Tawny

This symbol indicates that there has been a new component added to the WinPak® variety for 2021.

**KEY**
- **Scale 1** = Excellent
- **Scale 2** = Strong
- **Scale 3** = Acceptable
- **Scale 4** = Manageable
- **Scale 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.
WinPak® seed components only. Not for sale individually.

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.

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

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<td>1</td>
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<th>2 PRR Gene</th>
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<td>Rps = Resistance to Phytophthora sojae</td>
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<td>HRps = Heterozygous segregating Rps occurrence</td>
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<thead>
<tr>
<th>SCN Resistant Source</th>
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<td>Peking = These varieties contain SCN resistance genes from the Peking soybean breeding lines</td>
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<td>PI88.788 = These varieties contain SCN resistance genes from the PI88.788 soybean breeding lines</td>
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### WinPak® Variety Components

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<th>Variety</th>
<th>Relative Maturity</th>
<th>Determinate/Indeterminate</th>
<th>PRR Tolerance</th>
<th>Chloride Tolerance</th>
<th>SDS Tolerance</th>
<th>BSR Tolerance</th>
<th>SWM Tolerance</th>
<th>Iron Chlorosis</th>
<th>Southern Stem Canker and Root-Knot Nematode</th>
<th>SCN Resistant Source</th>
<th>PRR Gene</th>
<th>Stress Tolerance</th>
<th>Emergence</th>
<th>Standability</th>
<th>Frogeye Leaf Spot</th>
<th>Willows Blight</th>
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### Soybean

WinPak® seed components only. Not for sale individually.

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Ratings on new soybean varieties are based on limited data and may change as more data is collected.

#### Hilum Color

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

#### Pod Color

- TN = Tan
- BR = Brown

#### Flower Color

- P = Purple
- W = White

#### Pubescence Type

- GR = Gray
- TW = Tawny
- LTW = Light Tawny

#### Canopy Type

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

#### Plant Height

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

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

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

#### PRR Gene

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

#### SCN Resistant Source

- Peking
- PI88.788

| Variety | PRR Gene | SCN Resistant Source | Relative Maturity | Determinate/Indeterminate | Determinate/Indeterminate | PRR Tolerance | Chloride Tolerance | SDS Tolerance | BSR Tolerance | SWM Tolerance | Iron Chlorosis | Stress Tolerance | Emergence | Standability | Rust \* | Powdery Mildew | Fungal叶斑病 | Heat Stress | Phytophthora \* | Sclerotinia \* | Stem Canker \* | Southern Stem Canker | Root-Knot Nematode | Tolerance | Emergence |
|---------|-----------|----------------------|------------------|---------------------------|---------------------------|----------------|-------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------------|-------------|----------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------|-----------|
| CP3120E |           |                      |                 |                           |                           |                |                   |                |                |                |                |                |                |             |             |             |                |                |                |                |                |                |                |             |           |
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- SL = Slate
- TN = Tan

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

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

**Pubescence Type**
- GR = Gray
- TW = Tawny
- LTW = Light Tawny

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

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

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

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

**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

<table>
<thead>
<tr>
<th>Variety</th>
<th>Canopy Type</th>
<th>Plant Height</th>
<th>Southern Stem Canker and Root-Knot Nematode</th>
<th>PRR Gene</th>
<th>SCI Resistant Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>CP1200L</td>
<td>Int/Bush</td>
<td>T</td>
<td>1</td>
<td>Rps1c1</td>
<td>None/Rps1c1</td>
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<td>CP1225L*</td>
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<td>Rps1c2</td>
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<td>CP1384L*</td>
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<td>Rps1k3</td>
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<tr>
<td>CP5555LS</td>
<td>T/TT</td>
<td>S</td>
<td>1</td>
<td>None</td>
<td>53ExcluderN/AN/AN</td>
</tr>
</tbody>
</table>
**Lesions can enlarge to girdle or kill plant.**

**Susceptible plants have large, sunken oval-to diamond-shaped lesions.**

**It causes yield loss of up to 25%.**

**New race 2/3 is a more severe pathogen found in the same areas as race 2.**

**Race 2 is in more isolated areas of the Northwest.**

**Race 1 is widely identified in the U.S.**

**Causes seedling stunting, reduced nodulation and poor root development.**

**Race 2 is in more isolated areas of the Midwest, East and pockets of the Pacific Northwest.**

**New race 2/3 is a more severe pathogen found in the same areas as race 2.**

**Aphanomyces Root Rot Disease**

- Causes seedling stunting, reduced nodulation and poor root development.
- Race 1 is widely identified in the U.S.
- Race 2 is in more isolated areas of the Midwest, East and pockets of the Pacific Northwest.
- New race 2/3 is a more severe pathogen found in the same areas as race 2.

**Anthracnose Disease**

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

**Aphanomyces Root Rot Disease**

- Causes seedling stunting, reduced nodulation and poor root development.
- Race 1 is widely identified in the U.S.
- Race 2 is in more isolated areas of the Midwest, East and pockets of the Pacific Northwest.
- New race 2/3 is a more severe pathogen found in the same areas as race 2.

**Potato Leafhopper (PLH)**

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

**Nematodes**

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

**High-Salinity Soils**

- There are three methods to determine tolerance: the petri dish germination test, the forage greenhouse test and the field test. Salt-breeding nurseries provide varieties with more predictable performance for on-farm potential.
- Soils vary. Saline: high soluble salts. Sodic: high sodium ion content. Alkaline: soil pH that is higher than optimum (pH>8.0).
- Commonly found in the western half of the U.S.

**Aphids**

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

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

**Commonly found in saturated, poorly drained and/or compacted soils.**

**IN-SEASON MANAGEMENT**

**NEW SEEDING AND STAND ESTABLISHMENT**

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

**FALL DORMANCY (FD) AND WINTERHARDINESS (WH)**

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

**PEST RESISTANCE**

- Independent of breeding efforts, lower FD (more dormant) provides a significant increase in fiber digestibility potential.

**INSECT AND DISEASE CONTROL**

- Control insects such as aphids (spotted, blue, pea, cowpea), alfalfa weevils and leafhoppers.
- Manage foliar leaf diseases and anthracnose.
- Alfalfa provides farmers with more flexible management strategies.

**Harvest Management**

- Minimize leaf loss and added ash (dirt) content from overhandling during raking and merging.
- Wheel traffic can increase soil compaction and crown damage, leading to reduced crop regrowth and yield loss.

**HARVEST MANAGEMENT**

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

**Established Stands: Reading the Stand**

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

**WEED CONTROL**

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

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

- Gives you a more flexible cutting window to help manage your operation, putting you in control of your cutting schedule.
- Delivers a higher RFO3 and NDFd3 than conventional varieties cut on the same day.
- Achieve up to 20% higher yield at harvest4 by lengthening your cutting window up to 10 days.

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

CONVENTIONAL ALFALFA
- Conventional alfalfa breeding techniques have provided strong advancements in yield production, stand persistence, and insect and disease resistance.
- For more than three decades, alfalfa breeders have used conventional alfalfa breeding techniques (non-GE) to select for improved fiber digestibility (e.g., LegenDairy and RR Presteez lines).
  - These varieties show an incremental improvement in fiber digestibility when compared to nonselected varieties.
- May be approved for organic hay production when used with OMRI Listed® Apex™ Green coated seed option.

FLEXIBILITY OF HARVXTRA® HAS NEVER BEEN MORE IMPORTANT
With unpredictable weather patterns, you need the ability to alter your cutting plans quickly. HarvXtra® Alfalfa lets you maximize your growing season by providing the flexibility to space out cuttings so that each harvest optimizes ROI and yield potential.

HARVXTRA® CUTTING SCHEDULE

35- to 38-day intervals

31- to 34-day intervals

27- to 30-day intervals

- 3 cut
- 4 cut
- 5 cut

1. Alfalfa and Red Clover Stand Establishment Forage Management Day at Feldun-Purdue Agricultural Center, August 9, 2018. Seeding Date: May 2, 2018. Varieties: Magnum 7 for alfalfa and Durango for red clover, uncoated alfalfa seed, coated alfalfa seed, 2/3 rate uncoated, 2/3 rate coated, 4 reps with plots 2.5 by 20 feet. Counted on June 29, 2018.
2. Data from FGI trials in West Salem, Wis., 2018.
3. Data from FGI trials comparing HarvXtra® Alfalfa with Roundup Ready® Technology 2017 FD4 commercial varieties to FD4 commercial checks. Trials were seeded in 2013 and harvested in 2014, 2015 and 2016 in Boone, Iowa; Mt. Joy, Pa; Nampa, Idaho; Touchet, Wash.; and West Salem, Wis. Yield increase is directly correlated to the ability to delay harvest.
4. Data from an FGI trial in West Salem, Wis., comparing three cuttings at 35-day intervals to four cuttings at 28-day intervals, with the three-cut system yielding 26% more over the life of the stand. Trials were seeded in 2015 and harvested in 2014, 2015 and 2016. Yield increase is directly correlated to the ability to delay harvest.
### HVX Tundra II
- **Regions:** East|North|West
- **Dormancy:** 3.3
- **Winterhardiness:** 1.2

**Characteristics**

<table>
<thead>
<tr>
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<th>Feed Quality*</th>
<th>Disease Resistance</th>
<th>Nematode Resistance</th>
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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 "X." Because there is a significant improvement in Forage quality, HarvXtra® Alfalfa products can only be compared to other HarvXtra® 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 adoption**
- **Versatile harvest options: ideal for a 2- to 3-cut baled hay management system or great for a 1- or 2-cut hay harvest followed by grazing**

### HVX HarvaTron
- **Regions:** Central|East|North|West
- **Dormancy:** 3.9
- **Winterhardiness:** 2.1

**Characteristics**

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- **H1 feed quality rating:** harvest the benefits of superior forage quality potential with the HarvXtra® Alfalfa trait
- **Great wet-soil-disease resistance; high resistance to aphomynes root rot races 1 and 2**
- **Excellent option for 3- to 4-cut hay/haylage harvest system where quality is top of mind**

### HVX MegaTron
- **Regions:** Central|East|North|West
- **Dormancy:** 4.2
- **Winterhardiness:** 1.7

**Characteristics**

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- **H2 feed quality rating:** exceptional wet-soil-disease resistance for excellent seedling emergence and plant health over the life of the stand
- **High resistance to aphomynes root rot races 1, 2/3; multirace anthracnose resistance, including new race 5**
- **Excellent quality and yield potential with a 3- to 5-cut flexible harvest system**

### HVX 620RR Brand
- **Regions:** South|West
- **Dormancy:** 7.9
- **Winterhardiness:** 2

**Characteristics**

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

### HVX Driver
- **Regions:** Central|East|North|West
- **Dormancy:** 7.9
- **Winterhardiness:** 2

**Characteristics**

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

### HVX 840RR Brand
- **Regions:** Central|East|North|West
- **Dormancy:** 7.9
- **Winterhardiness:** 2

**Characteristics**

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- **Exceptional nondormant variety provides improved yield and forage quality potential with the HarvXtra® Alfalfa trait**
- **Strong disease package provides protection against pea and spotted alfalfa aphids and stem nematodes**
- **Flexible harvest management for 5+ cuttings for superior yield or improved forage quality potential**
### Graze N Hay 3.10RR
- **Regions:** North/West
- **Dormancy:** 2.9
- **Winterhardiness:** 1.8

#### Characteristics

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</table>

- Best suited for Northern regions; excellent winterhardiness and stand persistence
- Withstands hood 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

### RR Presteez
- **Regions:** Central/East/North/West
- **Dormancy:** 3.2
- **Winterhardiness:** 1.2

#### Characteristics

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</table>

- Similar to the high-forage-quality conventional LegenDairy line with the added benefit of the Roundup Ready® trait
- 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

### RR AphaTron 2XT
- **Regions:** Central/East/North/West
- **Dormancy:** 4
- **Winterhardiness:** 1.5

#### Characteristics

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</table>

- Exceptional wet soil disease package, similar to the conventional Rebound line with the added benefit of the Roundup Ready® trait
- High resistance to multirace aphanomyces root rot disease (races 1, 2/3), ideal for the Midwest, East and West, where aphanomyces root rot disease can be a problem
- Provides high yield and excellent forage quality potential under a 4- to 5-cut haylage or aggressive hay management system

### RR Straticea
- **Regions:** Central/East/North/West
- **Dormancy:** 4.3
- **Winterhardiness:** 2

#### Characteristics

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</table>

- Exceptional ability to perform well across multiple geographies and growing conditions
- Features a good disease-resistance package for soils east to west
- High-forage yield potential, fast regrowth and good winterhardiness; ideally suited for a 4- to 5-cut haylage or aggressive hay management system

### RR Vamoose
- **Regions:** Central/East/North/West
- **Dormancy:** 3.9
- **Winterhardiness:** 1.8

#### Characteristics

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- 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

### RR Salvia
- **Regions:** Central/North/West
- **Dormancy:** 4.8
- **Winterhardiness:** 2.5

#### Characteristics

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- First commercial variety selected from our salt breeding nurseries
- Excellent pest-resistance package; high resistance to stem nematode and multispecies aphid resistance
- Exceptional performance in tough soils with high saline conditions; great for 5-cut intensive hay or haylage harvest systems

### RR Salvia
- **Regions:** Central/North/West
- **Dormancy:** 4.8
- **Winterhardiness:** 2.5

#### Characteristics

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- Excellent pest-resistance package; high resistance to stem nematode and multispecies aphid resistance
- Exceptional performance in tough soils with high saline conditions; great for 5-cut intensive hay or haylage harvest systems

### RR Straticea
- **Regions:** Central/East/North/West
- **Dormancy:** 4.3
- **Winterhardiness:** 2

#### Characteristics

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- Exceptional ability to perform well across multiple geographies and growing conditions
- Features a good disease-resistance package for soils east to west
- High-forage yield potential, fast regrowth and good winterhardiness; ideally suited for a 4- to 5-cut haylage or aggressive hay management system

### RR Salvia
- **Regions:** Central/North/West
- **Dormancy:** 4.8
- **Winterhardiness:** 2.5

#### Characteristics

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<tr>
<td>Nematode Resistance</td>
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</tr>
</tbody>
</table>

- First commercial variety selected from our salt breeding nurseries
- Excellent pest-resistance package; high resistance to stem nematode and multispecies aphid resistance
- Exceptional performance in tough soils with high saline conditions; great for 5-cut intensive hay or haylage harvest systems

### RR Vamoose
- **Regions:** Central/East/North/West
- **Dormancy:** 3.9
- **Winterhardiness:** 1.8

#### Characteristics

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<thead>
<tr>
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<tr>
<td>Nematode Resistance</td>
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</table>

- 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

### RR AphaTron 2XT
- **Regions:** Central/East/North/West
- **Dormancy:** 4
- **Winterhardiness:** 1.5

#### Characteristics

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<td>Nematode Resistance</td>
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- Exceptional wet soil disease package, similar to the conventional Rebound line with the added benefit of the Roundup Ready® trait
- High resistance to multirace aphanomyces root rot disease (races 1, 2/3), ideal for the Midwest, East and West, where aphanomyces root rot disease can be a problem
- Provides high yield and excellent forage quality potential under a 4- to 5-cut haylage or aggressive hay management system

### RR Presteez
- **Regions:** Central/East/North/West
- **Dormancy:** 3.2
- **Winterhardiness:** 1.2

#### Characteristics

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<tr>
<td>Nematode Resistance</td>
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</tr>
</tbody>
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- Similar to the high-forage-quality conventional LegenDairy line with the added benefit of the Roundup Ready® trait
- 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

### Graze N Hay 3.10RR
- **Regions:** North/West
- **Dormancy:** 2.9
- **Winterhardiness:** 1.8

#### Characteristics

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<tr>
<td>Nematode Resistance</td>
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</tbody>
</table>

- Best suited for Northern regions; exceptional winterhardiness and stand persistence
- Withstands hood 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

---

**KEY**

Scale

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

Product descriptions and ratings are generated from Harvix® trials and are represented on a separate scale than Roundup Ready® and conventional alfalfa varieties and are subject to change as additional data is gathered.

Feed quality ratings for Harvix® Alfalfa are represented on a separate scale than Roundup Ready® and conventional alfalfa varieties and are subject to change with an “NC” because there is a significant improvement in forage quality. Harvix® Alfalfa products can only be compared to other Harvix® Alfalfa products.
**Nematode Resistance**

- **Disease Resistance**
- **Persistence Index**
- **Feed Quality**

**Yield Characteristics**

- Maximize yield potential all season long; similar to conventional Gunner with the added benefit of the Roundup Ready® trait
- Well-rounded pest resistance package for wide-range adaptability from the East to the Great Plains and Southern Midwest
- Very early spring growth, fast regrowth and late fall growth; aggressive 5-cut schedule

**RR Tonnica**
- Regions: Central|East|North|West
- Dormancy: 5
- Winterhardiness: 2

**RR 6 Shot Plus**
- Regions: South|West
- Dormancy: 6
- Winterhardiness: -

**RR Desert Rose**
- Regions: South|West
- Dormancy: 8.5
- Winterhardiness: -

**Maxi Graze®**
- Regions: North|West
- Dormancy: 2
- Winterhardiness: 2

**MP 1000 Brand**
- Regions: Central|East|North|West
- Dormancy: 3
- Winterhardiness: 3

**LegenDairy XHD**
- Regions: Central|East|North|West
- Dormancy: 3.2
- Winterhardiness: 1.2

**Characteristics**

- Yield Index
- Persistence Index
- Feed Quality
- Disease Resistance
- Nematode Resistance

**Product descriptions and ratings are generated from known Plant® 9 lab and similar from the genetics supplier and may change as additional data is gathered.**

**Feed quality ratings for Harvest® alfalfa are represented on a separate scale than Roundup Ready® and conventional alfalfa varieties and are indicated with an “R” because there is a significant improvement in forage quality. Harvest® alfalfa products can only be compared to other Harvest® alfalfa products.**

**KEY**

- Scale: 1 = Excellent
- 2 = Strong
- 3 = Average
- 4 = Marginal
- 5 = Not Recommended

-Winterhardiness:

- Dormancy:

- Mountain:

- Regions:
**LegenDairy AA**
Regions: Central|East|North|West
Dormancy: 3.4
Winterhardiness: 1.1

**Characteristics**
- Yield Index
- Persistence Index
- Feed Quality
- Disease Resistance
- Nematode Resistance

* • The next generation of the LegenDairy line has
  • High resistance to both multirace aphomymyces
  • Excellent choice for producers in Northern
growing regions east to west; ideal for 3- to 4-cut
  baled hay or haylage harvest system

---

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

**Characteristics**
- Yield Index
- Persistence Index
- Feed Quality
- Disease Resistance
- Nematode Resistance

* • Packs a punch with the latest disease resistance
  • High resistance to both multirrace aphomymyces
  • Best-suited for 4- to 5-cut haylage or aggressive
    hay management systems in the Upper Midwest
  west; great for baled hay in the West where
  pockets of aphomymyces root rot disease is a
  problem

---

**Rebound 6XT**
Regions: Central|East|North|West
Dormancy: 4.3
Winterhardiness: 1.5

**Characteristics**
- Yield Index
- Persistence Index
- Feed Quality
- Disease Resistance
- Nematode Resistance

* • Good disease resistance for wet soils with high
  • Excellent option for the Upper Midwest, East and
    West, where pockets of aphomymyces root rot
disease is a problem
  • Very early spring growth with rapid regrowth after
    each cutting; best-suited for 4- to 5-cut haylage or
    aggressive hay management systems

---

**TrailBlazer XHH**
Regions: Central|East|North
Dormancy: 4
Winterhardiness: 3

**Characteristics**
- Yield Index
- Persistence Index
- Feed Quality
- Disease Resistance
- Nematode Resistance

* • Excellent resistance to potato leafhopper (PLH);
  • PLH resistance offers reduced-spray or no-spray
    options
  • Great option for the Upper Midwest and East; best
    suited in 3- to 4-cut hay/ haylage harvest system

---

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

**Characteristics**
- Yield Index
- Persistence Index
- Feed Quality
- Disease Resistance
- Nematode Resistance

* • Optimize yield and performance potential with
  • Good disease resistance package allows this
    variety to move well in the east as haylage to the
    west as dry hay
  • Plan for aggressive 5- to optional 6-cut hay or
    haylage harvest schedule

---

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

**Characteristics**
- Yield Index
- Persistence Index
- Feed Quality
- Disease Resistance
- Nematode Resistance

* • Developed for the Western areas of the U.S. where
  • Great performance in field trials heavily infested
    with nematodes; high resistance to both stern and
    northern root-knot nematodes
  • Exceptional yield potential with optimum
    production under 5- to optional 6-cut haylage or
    baled hay harvest systems

---

**KEY**
Scale:
1 = Low
2 = Strong
3 = Acceptable
4 = Range
9 = Not Recommended

Product descriptions and ratings are generated from known Harley® data and serve as a general guide. Ratings may change as additional data is gathered.

Feed quality ratings for Harley® alfalfas are represented on a separate scale than planting Harley® and conventional alfalfa varieties and are signified with an “R” because there is a significant improvement in forage quality. Harley® alfalfa products can only be compared to other Harley® alfalfa products.
<table>
<thead>
<tr>
<th>Characteristics</th>
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<tr>
<td>Nematode Resistance</td>
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</tbody>
</table>

- **Artesian Sun 6.3**
  - Regions: South/West
  - Dormancy: 6
  - Winterhardiness: 3.1

- **Sun Quest®**
  - Regions: South/West
  - Dormancy: 9
  - Winterhardiness: -

- **Sun Titan**
  - Regions: South/West
  - Dormancy: 8.4
  - Winterhardiness: -

### Artesian Sun 6.3
- **Characteristics**
  - **Yield Index**: Not Recommended
  - **Persistence Index**: Excellent
  - **Feed Quality**: Adequate
  - **Disease Resistance**: Good
  - **Nematode Resistance**: Good

- **Key Features**
  - Excellent conventional variety that is dark-green, very high multifloral 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

### Sun Quest®
- **Characteristics**
  - **Yield Index**: Not Recommended
  - **Persistence Index**: Excellent
  - **Feed Quality**: Adequate
  - **Disease Resistance**: Good
  - **Nematode Resistance**: Good

- **Key Features**
  - 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 salinity-tolerance ratings in germination and forage tests
  - Specifically developed for S. Calif., Ariz. and N.M. with exceptional stand persistence for numerous harvests per year

### Sun Titan
- **Characteristics**
  - **Yield Index**: Not Recommended
  - **Persistence Index**: Excellent
  - **Feed Quality**: Adequate
  - **Disease Resistance**: Good
  - **Nematode Resistance**: Good

- **Key Features**
  - 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

### RR Presteez
- **Characteristics**
  - **Yield Index**: Not Recommended
  - **Persistence Index**: Excellent
  - **Feed Quality**: Adequate
  - **Disease Resistance**: Good
  - **Nematode Resistance**: Good

- **Key Features**
  - Similar to the conventional LegendDairy line with the added benefit of the Roundup Ready® trait
  - Excellent salinity-tolerance ratings in germination tests and superior performance in stand persistence trials
  - Ideal for Upper Midwest and West as a 3- to 4-cut baled hay and/or haylage harvest system
  - Exceptional leaf retention and stem quality for optimum digestibility
  - Available in GroZone® plus Advanced Coating® Zn

### RR Vamoose
- **Characteristics**
  - **Yield Index**: Not Recommended
  - **Persistence Index**: Excellent
  - **Feed Quality**: Adequate
  - **Disease Resistance**: Good
  - **Nematode Resistance**: Good

- **Key Features**
  - Management is similar to TrailBlazer XHH with the added benefit of the Roundup Ready® trait
  - 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
  - Available in GroZone® plus Advanced Coating® Zn plus Stamina® fungicide seed treatment to provide additional early plant health

### RR AphaTron 2XT
- **Characteristics**
  - **Yield Index**: Not Recommended
  - **Persistence Index**: Excellent
  - **Feed Quality**: Adequate
  - **Disease Resistance**: Good
  - **Nematode Resistance**: Good

- **Key Features**
  - Management is similar to conventional Rebound line with the added benefit of the Roundup Ready® trait
  - Excellent disease package; high resistance to aphonomyces root rot races 1, 2/3
  - Designed specifically for the Midwest, East and West, where pockets of aphonomyces root rot disease can be a problem
  - Provides high yield and excellent forage quality potential under a 4- to 5-cut haylage or aggressive hay management system
  - Available in GroZone® plus Advanced Coating® Zn plus Stamina® fungicide seed treatment to provide additional early plant health

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

**Product descriptions and ratings are generated from known Plant® 9246 and similar lines or genetics supplier and may change as additional data is gathered.**

**Feed quality ratings for Plant® 9246 are represented on a separate scale than Roundup Ready® and conventional alfalfa varieties and are indicated with an “X.” Because there is a significant improvement in forage quality, Plant® 9246 alfalfa products can only be compared to other Plant® 9246 alfalfa products.**
## Sun Quest®

**Regions:** South|West  
**Dormancy:** 9

### Characteristics

<table>
<thead>
<tr>
<th>Characteristics</th>
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</tr>
<tr>
<td>Nematode Resistance</td>
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</tbody>
</table>

* 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 S. Calif., Ariz. and N.M.  
* Exceptional stand persistence for numerous harvests per year  
* Available in GroZone® plus Advanced Coating® Zn

---

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

*Product descriptions and ratings are generated from Kimsey Plot® and similar farm trials and may change as additional data is gathered.*  
Feed quality ratings for Harvest® alfalfa are represented on a separate scale than Harvest Ready® and conventional alfalfa varieties and are symbolized with an “H.” Because there is a significant improvement in forage quality, Harvest® alfalfa products can only be compared to other Harvest® alfalfa products.
The page provides information on alfalfa varieties and their recommended placement based on climate challenges. It includes a product dormancy map and a chart to determine the recommended variety for specific conditions. The map and chart are designed to help in matching common diseases and pests in your area. Climatic challenges, such as the winter hardiness of various regions, are important considerations in alfalfa seed selection. The recommended varieties are tailored to match these conditions for optimal yield and quality.
### Resistance Ratings

- **S** = Susceptible (0–5%)
- **LR** = Low Resistance (6–14%)
- **MR** = Moderate Resistance (15–30%)
- **R** = Resistance (31–51%)
- **HR** = High Resistance (>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 tolerance is important.

### Salt Tolerance

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

### Feed Quality Index

Feed quality ratings for HarvXtra® Alfalfa are represented on a separate scale than Roundup Ready® and conventional alfalfa. Improvement in forage quality, HarvXtra® Alfalfa products can only be compared to other HarvXtra® Alfalfa products.

### Winterhardine

Winterhardine scores are based on the amount of moisture in the soil and the amount of sunlight the plants receive.

### Fall Dormancy

Fall Dormancy scores are based on the amount of moisture in the soil and the amount of sunlight the plants receive.

### Yield Index

Yield Index scores are based on the amount of moisture in the soil and the amount of sunlight the plants receive.

### Key

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

### Product Descriptions and Ratings

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### Fall Dormancy

Fall Dormancy scores are based on the amount of moisture in the soil and the amount of sunlight the plants receive.

**New** Fall Dormancy: 2.0-5.0
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</tbody>
</table>

**Feed Quality Index**

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

**Key:**

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

**NEW**

**FALL DORMANCY:** 6.0-9.0
Shortcuts. You don’t take them; neither do we.

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

SEE HOW SEED MEASURES UP

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

- Yield
- Milk per acre
- NDFD
- Starch

*Other categories are available.

SILAGEFIRST® SEED LINE DELIVERS

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

LEAFY HYBRIDS

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

FLOURY-LEAFY HYBRIDS

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

HIGH-ENERGY/HIGH-TONNAGE HYBRIDS

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

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

KEY TAKEAWAYS

1. Select hybrids based on forage quality and tonnage needs.
2. Properly harvest and store your crop.
**CP184RR**

**Relative Maturity:** 80 Days

**Tonnage vs NDFD**

Tonnage

LOW MODEERATE HIGH

- 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**

- Seedling Vigor
- Drought Tolerance
- Root Strength
- Tonnage Potential
- Milk/Acre
- Starch

Not Recommended Excellent

**CP2692AS3011A**

**Relative Maturity:** 86 Days

**Tonnage vs NDFD**

Tonnage

LOW MODEERATE HIGH

- Agrisure Artesian® trait with excellent tonnage potential that crosses multiple soil types
- Medium-tall plant with strong stalks, dual-purpose option
- Low response to population for success at lower planting densities
- Acceptable Goss’s wilt tolerance

**Characteristics**

- Seedling Vigor
- Drought Tolerance
- Root Strength
- Tonnage Potential
- Milk/Acre
- Starch

Not Recommended Excellent

**CP2845SS/RIB**

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

**Tonnage vs NDFD**

Tonnage

LOW MODEERATE HIGH

- 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**

- Seedling Vigor
- Drought Tolerance
- Root Strength
- Tonnage Potential
- Milk/Acre
- Starch

Not Recommended Excellent

**CP2965VT2P/RIB**

**Relative Maturity:** 89 Days

**Tonnage vs NDFD**

Tonnage

LOW MODEERATE HIGH

- High yield potential to complement 2845
- Excellent early vigor for early planting
- Moderate RTP and high RIV boost yield potential on average-to-productive soils
- Acceptable Goss's wilt tolerance

**Characteristics**

- Seedling Vigor
- Drought Tolerance
- Root Strength
- Tonnage Potential
- Milk/Acre
- Starch

Not Recommended Excellent

**CP3240AS3220A-EZ**

**Relative Maturity:** 92 Days

**Tonnage vs NDFD**

Tonnage

LOW MODEERATE HIGH

- Highest yield (tons/acre) in 2018 S-90 trials
- Handles both droughty and highly productive fields; keep out of poorly drained soils
- Highly responsive to improved nitrogen management
- Manage for Goss's wilt

**Characteristics**

- Seedling Vigor
- Drought Tolerance
- Root Strength
- Tonnage Potential
- Milk/Acre
- Starch

Not Recommended Excellent

**CP3300SRR**

**Relative Maturity:** 93 Days

**Tonnage vs NDFD**

Tonnage

LOW MODEERATE HIGH

- Floury x leafy silage-only hybrid with very high tonnage
- White-cob hybrid with large semi-flexed ears that can handle lower populations
- Highly responsive to nitrogen and fungicide applications

**Characteristics**

- Seedling Vigor
- Drought Tolerance
- Root Strength
- Tonnage Potential
- Milk/Acre
- Starch

Not Recommended Excellent

---

**Key**

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

Product descriptions and ratings are generated from Answer Flips trials under the genetics supplier and may change as additional data is gathered.

CROPLAN® corn silage hybrids that consistently perform for high-quality and high-temperature Answer Flips trials.
**CP3399SS/RIB**

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

**Tonnage vs NDFD**

- **Tonnage**: NDFD
- **Characteristics**:
  - Seedling Vigor
  - Drought Tolerance
  - Root Strength
  - Tonnage Potential
  - Milk/Acre
  - Starch

**Recommended**

**Not Recommended**

**Not Recommended**

- **NDFD**: HIGH

**Characteristics**:

- 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

**CP3499VT2P/RIB**

**Relative Maturity: 94 Days**

**Tonnage vs NDFD**

- **Tonnage**: NDFD
- **Characteristics**:
  - Seedling Vigor
  - Drought Tolerance
  - Root Strength
  - Tonnage Potential
  - Milk/Acre
  - Starch

**Recommended**

**Not Recommended**

**Not Recommended**

- **NDFD**: HIGH

**Characteristics**:

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

**CP3575SS/RIB**

**[VT2P/RIB]* Relative Maturity: 95 Days**

**Tonnage vs NDFD**

- **Tonnage**: NDFD
- **Characteristics**:
  - Seedling Vigor
  - Drought Tolerance
  - Root Strength
  - Tonnage Potential
  - Milk/Acre
  - Starch

**Recommended**

**Not Recommended**

**Not Recommended**

- **NDFD**: HIGH

**Characteristics**:

- Dual-purpose hybrid with above-average NDFD and starch content
- Exceeds 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

**CP3611SS/RIB**

**[VT2P/RIB]* Relative Maturity: 96 Days**

**Tonnage vs NDFD**

- **Tonnage**: NDFD
- **Characteristics**:
  - Seedling Vigor
  - Drought Tolerance
  - Root Strength
  - Tonnage Potential
  - Milk/Acre
  - Starch

**Recommended**

**Not Recommended**

**Not Recommended**

- **NDFD**: HIGH

**Characteristics**:

- Best-positioned on a rotated acre
- Excellent roots
- Highly responsive to increased nitrogen fertility; moderate response to population
- Monitor in areas with heavy gray leaf spot and northern corn leaf blight

**CP3735SS/RIB**

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

**Tonnage vs NDFD**

- **Tonnage**: NDFD
- **Characteristics**:
  - Seedling Vigor
  - Drought Tolerance
  - Root Strength
  - Tonnage Potential
  - Milk/Acre
  - Starch

**Recommended**

**Not Recommended**

**Not Recommended**

- **NDFD**: HIGH

**Characteristics**:

- 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

**CP3795VT2P/RIB**

**Relative Maturity: 97 Days**

**Tonnage vs NDFD**

- **Tonnage**: NDFD
- **Characteristics**:
  - Seedling Vigor
  - Drought Tolerance
  - Root Strength
  - Tonnage Potential
  - Milk/Acre
  - Starch

**Recommended**

**Not Recommended**

**Not Recommended**

- **NDFD**: HIGH

**Characteristics**:

- Large plant with good digestibility ratings
- Improved Goss’s wilt tolerance over 3899; strong stalks, roots and seedling vigor
- Low response to fungicide
- Optimize yield potential with enhanced nitrogen management
**CP3899VT2P/RIB**

Relative Maturity: 96 Days

**Tonlage vs NDFD**

- **NDFD**
  - Low
  - Moderate
  - High

- 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**

- Seedling Vigor
- Drought Tolerance
- Root Strength
- Tonnage Potential
- Milk/Acre
- Starch

**Recommended**

- Not Recommended
- Excellent

**CP4099SS/RIB**

Relative Maturity: 100 Days

**Tonlage vs NDFD**

- **NDFD**
  - Low
  - Moderate
  - High

- 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**

- Seedling Vigor
- Drought Tolerance
- Root Strength
- Tonnage Potential
- Milk/Acre
- Starch

**Recommended**

- Not Recommended
- Excellent

**CP4100SVT2P/RIB**

Relative Maturity: 101 Days

**Tonlage vs NDFD**

- **NDFD**
  - Low
  - Moderate
  - High

- 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**

- Seedling Vigor
- Drought Tolerance
- Root Strength
- Tonnage Potential
- Milk/Acre
- Starch

**Recommended**

- Not Recommended
- Excellent

**CP4199SS/RIB**

Relative Maturity: 101 Days

**Tonlage vs NDFD**

- **NDFD**
  - Low
  - Moderate
  - High

- 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**

- Seedling Vigor
- Drought Tolerance
- Root Strength
- Tonnage Potential
- Milk/Acre
- Starch

**Recommended**

- Not Recommended
- Excellent

**CP4198V2P/RIB**

Relative Maturity: 101 Days

**Tonlage vs NDFD**

- **NDFD**
  - Low
  - Moderate
  - High

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

**Characteristics**

- Seedling Vigor
- Drought Tolerance
- Root Strength
- Tonnage Potential
- Milk/Acre
- Starch

**Recommended**

- Not Recommended
- Excellent

**Key**

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

**CROPLAN**

**High** for high-quality and high-tonnage in Answer VR™ trials.
**CP4242S/RI**

**[VT2P/RI]***

Relative Maturity: 102 Days

**Tonnage vs NDFD**

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

**Characteristics**

<table>
<thead>
<tr>
<th>Seedling Vigor</th>
<th>Not Recommended</th>
<th>Excellent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drought Tolerance</td>
<td>2</td>
<td>1</td>
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<tr>
<td>Root Strength</td>
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<td>Starch</td>
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</tr>
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</table>

**Recommended**

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

**Characteristics**

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</tr>
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<td>Starch</td>
<td>2</td>
<td>1</td>
</tr>
</tbody>
</table>

**Recommended**

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

**Recommended**

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

**Characteristics**

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</tr>
</tbody>
</table>
**CP4600SSS/RIB**

Relative Maturity: 106 Days

**Tonnage vs NDFD**

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

**Characteristics**

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

**CP4791AS3111**

[ASGT]

Relative Maturity: 107 Days

**Tonnage vs NDFD**

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

**Characteristics**

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

**CP5887VT2P/RIB**

Relative Maturity: 108 Days

**Tonnage vs NDFD**

- • High tonnage potential; consistent dual-purpose hybrid
  - • Medium plant with strong ear flex
  - • High response to nitrogen; use aggressive fertility
  - • Manage stalk quality with medium-low seeding rate; fungicide is recommended

**Characteristics**

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

**CP5000SAS3122-EZ**

Relative Maturity: 110 Days

**Tonnage vs NDFD**

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

**Characteristics**

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

**CP5073SS/RIB**

[VT2P/RIB]*

Relative Maturity: 110 Days

**Tonnage vs NDFD**

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

**Characteristics**

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

**CP6110VT2P/RIB**

Relative Maturity: 110 Days

**Tonnage vs NDFD**

- • Tough high-тонnage 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 | 4 4 4 4
Drought Tolerance | 3 3 3 3
Root Strength | 3 3 3 3
Tonnage Potential | 3 3 3 3
Milk/Acre | 3 3 3 3
Starch | 3 3 3 3
**CP5115SS/RIB**

(VT2P/RIB)*

Relative Maturity: 111 Days

**Characteristics**

- **Starch**
  - High
- **Milk/Acre**
  - High
- **Potential**
  - High
- **Tonnage**
  - High
- **Strength**
  - High
- **Root**
  - High
- **Tolerance**
  - High
- **Vigor**
  - High
- **Seedling Characteristics**

- **NDFD**
  - High

- **Recommended**
  - Not Recommended

- **Days**
  - 113

**Tonnage vs NDFD**

- **Tonnage**
  - High

- **NDFD**
  - High

- **Recommended**
  - Excellent

- **Maturity**
  - Relative: 72

---

**CP5277AS3220-EZ**

(VT2P/RIB)*

Relative Maturity: 112 Days

**Characteristics**

- **Starch**
  - High
- **Milk/Acre**
  - High
- **Potential**
  - High
- **Tonnage**
  - High
- **Strength**
  - High
- **Root**
  - High
- **Tolerance**
  - High
- **Vigor**
  - High
- **Seedling Characteristics**

- **NDFD**
  - High

- **Recommended**
  - Excellent

- **Days**
  - 112

**Tonnage vs NDFD**

- **Tonnage**
  - High

- **NDFD**
  - High

- **Recommended**
  - Excellent

- **Maturity**
  - Relative: 72

---

**CP5290DGVT2P/RIB**

(SS/RIB)*

Relative Maturity: 112 Days

**Characteristics**

- **Starch**
  - High
- **Milk/Acre**
  - High
- **Potential**
  - High
- **Tonnage**
  - High
- **Strength**
  - High
- **Root**
  - High
- **Tolerance**
  - High
- **Vigor**
  - High
- **Seedling Characteristics**

- **NDFD**
  - High

- **Recommended**
  - Not Recommended

- **Days**
  - 112

**Tonnage vs NDFD**

- **Tonnage**
  - High

- **NDFD**
  - High

- **Recommended**
  - Not Recommended

- **Maturity**
  - Relative: 72

---

**CP5370SS/RIB**

(VT2P/RIB)*

Relative Maturity: 113 Days

**Characteristics**

- **Starch**
  - High
- **Milk/Acre**
  - High
- **Potential**
  - High
- **Tonnage**
  - High
- **Strength**
  - High
- **Root**
  - High
- **Tolerance**
  - High
- **Vigor**
  - High
- **Seedling Characteristics**

- **NDFD**
  - High

- **Recommended**
  - Excellent

- **Days**
  - 113

**Tonnage vs NDFD**

- **Tonnage**
  - High

- **NDFD**
  - High

- **Recommended**
  - Excellent

- **Maturity**
  - Relative: 72

---

**Footer Image**
Starch
Milk/Acre
Potential
Tonnage
Root
Tolerance
Vigor
Seedling
Characteristics

Tonnage vs NDFD

Tonnage

LOW
MODERATE
HIGH
NDFD

Characteristics

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

Not Recommended
Excellent

●

5
3
1
3
4
3

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

Tonnage vs NDFD

Tonnage

LOW
MODERATE
HIGH
NDFD

Characteristics

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

Not Recommended
Excellent

●

5
3
1
3
4
3

KEY

Scale

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

CP550VT2P/RIB
Relative Maturity: 115 Days

CP587VT2P/RIB
Relative Maturity: 115 Days

CP590VT2P/RIB
Relative Maturity: 115 Days

CP5700VT2P/RIB
Relative Maturity: 117 Days

CP5678VT2P/RIB
Relative Maturity: 116 Days

CP6027VT2P/RIB
Relative Maturity: 120 Days

• 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

• 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
• Exceeds with high nitrogen and fungicides, and medium-high populations

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

• 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

• 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

• Broad Southern adaptability east to west; excellent silage potential
• Medium-tall plant with strong stalks, staygreen and seedling vigor
• Best-suited at medium to medium-high populations
• Manage nitrogen for top-end yield; fungicide recommended in areas with heavy GLS pressure

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

CPKR/IMP corn silage hybrids that consistently perform for high-quality and high-tonnage in Answer Pest® trials.
CP7000S

Relative Maturity: 130 Days

Tonnage vs NDFD

- Full season plant with very tall plant height and high protein levels
- Excellent agronomics and stress tolerance; excels in heat
- Extremely tall with wide dark leaves; maximum silage yield potential
- Utilize for dry cow rations with very low starch component

Characteristics

<table>
<thead>
<tr>
<th></th>
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<tr>
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</table>
### Calibrate® Starch Rating

- **S** = Slow
- **M** = Moderate
- **F** = Fast

Ratings based on 2018-2019 silage samples.

### Calibrate® Fiber Rating

- **S** = Slow
- **M** = Moderate
- **F** = Fast

Ratings based on 2018-2019 silage samples.

### Plant Height

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

### Ear Height

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

### Ear Flex

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

### Flower Date

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

### RTP/RTN/RTCC/RTF Ratings

- **L** = Low Response
- **M** = Moderate Response
- **H** = High Response
- **TBD** = To be tested in 2020.

### Key Scale

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

### Product Descriptions and Ratings

- **CORN SILAGE BRAND**
  - CP077SSR
  - CP184RR
  - CP2692AS30
  - CP2845SS/RIB*
  - CP2965VT2P/RIB*
  - CP3240AS32
  - CP3300SSR
  - CP3399SS/RIB*
  - CP3499VT2P/RIB*
  - CP3575SS/RIB
  - CP3611SS/RIB*
  - CP3735SS/RIB
  - CP3795VT2P/RIB*
  - CP3899VT2P/RIB*
  - CP4099SS/RIB*
  - CP4100SVT2P/RIB*
  - CP4188VT2P/RIB*
  - CP4199SS/RIB*
  - CP4242SS/RIB*
  - CP4203SS/RIB*
  - CP4079SS/RIB

### Other Ratings

- **# Milk/Acre**
- **% NDF**
- **% Starch**
- **% Crude Protein**
- **TDN**
- **RTP/RTN/RTCC/RTF**

### Other Information

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

*Follow IRM guidelines and refuge configurations to preserve the benefits and insect protection of these technology crops.*
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<thead>
<tr>
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<th>Brand</th>
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**Calibrate® Starch Rating**
- **S** = Slow
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Ratings based on 2018-2019 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.

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**Calibrate® Fiber Rating**
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<thead>
<tr>
<th>Product Name</th>
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<tbody>
<tr>
<td>CORN SILAGE</td>
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</tbody>
</table>
More tonnage potential and not an ounce of excuses.

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

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

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

SELECT THE RIGHT FORAGE TYPE

- Forage Sorghum (single-cut silage)
  Tall plant that has a sweet stalk and small grain head with limited regrowth potential.
- Sorghum x Sudan (multi-cut or grazing)
  Strong tillering and regrowth ability, which is ideal for multiple harvests with increased tonnage potential.
- Sudan (multi-cut or grazing)
  Shorter stature with fine stalks; more leaves than a sorghum x sudan. Multiple tillering ability and excellent regrowth.
- Pearl Millet (multi-cut or grazing)
  Brachytic plant stature with finer stalks and prolific tillering.

SELECT THE HYBRID WITH THE TRAIT YOU NEED

- Brown Midrib-6 Trait
  - Excellent forage quality and agronomics
  - The nutritional value potential is comparable to corn silage
  - Traits available in the following forage types: forage sorghum, sudan hybrid, sorghum x sudan hybrid, pearl millet

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

PHOTOPERIOD SENSITIVITY TRAIT

- Extended harvest window
- Remains in the vegetative state until day length falls below 12 hours and 20 minutes; it will then enter the reproductive stage
- Traits available in the following forage types: forage sorghum, sudan hybrid, sorghum x sudan hybrid

IN-SEASON MANAGEMENT

- TREATED SEED
  - Seed Safener Treatment
    Helps protect seed against preemergence herbicide applications, some herbicide carry-over or residual, and some grass herbicides.
  - Systemic Insecticide Treatment
    Effective on aboveground insects, such as early sugarcane aphid, for roughly 40 days.
  - Base Seed Treatment
    Pearl millet hybrids include a base seed treatment only.

WEED CONTROL

Herbicides for forage sorghums are limited to bromoxynil, atrazine, metolachlor or 2,4-D.¹
- Metolachlor, by itself or in combination with atrazine, is the recommended preemergence herbicide.
- There are no postemergence grass herbicides.
- Broadleaf postemergence herbicides include 2,4-D, bromoxynil and Huskie® herbicide.
- The best way to control weeds is to start with clean ground and get the crop up and shading the soil as quickly as possible.

FERTILITY

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

SUGARCANE APHID (SCA)

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

FEEDING/HARVEST MANAGEMENT

FORAGE SORGHUM

Harvest at late-milk to soft-dough stage. Single-cut for silage when plant reaches 67% to 72% whole plant moisture. Forage sorghums can be harvested after frost in the North for silage.

SORGHUM X SUDAN

Optimal harvest timing is 40 days or 40 inches tall. Dry hay in the Plains, West, South and Southwest; haylage or baleage in the Midwest, East and Southeast. Start summer grazing when plants reach 18 to 24 inches. Remove animals when two nodes are left above the ground.

SUDAN

Optimal harvest timing is 40 days or 40 inches tall. Drydown is quicker than sorghum x sudan; provides ability for quicker pickup or dry hay option in areas that have been difficult in the past. Start summer grazing when plants reach 18 to 24 inches. Remove animals when two nodes are left above the ground.

PEARL MILLET

Optimal harvest timing is 40 days or 40 inches tall. Good choice for horse feed with lack of prussic acid and high digestibility; good for dry hay areas with high humidity during summer. Start summer grazing when plants reach 18 to 24 inches. Remove animals when there is six-inches of stubble height.

¹ Read all labels before application.
**BMR 3211**

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

<table>
<thead>
<tr>
<th>Characteristics</th>
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<tr>
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<td>Hay</td>
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<tr>
<td>Silage</td>
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<td>3</td>
</tr>
<tr>
<td>Grazing</td>
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<td>2</td>
</tr>
</tbody>
</table>

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

**BMR 3401**

- **Regions:** Central|South|West
- **Maturity:** Early/Mid

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</table>

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

**3601**

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

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- Extremely flexible hybrid; excellent disease and drought tolerance allow for placement across most of the U.S.
- Excellent yield potential; similar to a late-season hybrid
- Excellent standability; plants can reach 7 to 8 feet tall; manage water and fertility for a mid-maturity hybrid
- Recommended seeding rate: 60,000 to 70,000 seeds per acre at 1 1/2 inches deep, depending on soil moisture

**Greentreat® 1531**

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

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</tbody>
</table>

- 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)

**Greentreat® 1731**

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

<table>
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</thead>
<tbody>
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</tbody>
</table>

- Great forage quality with the BMR-6 gene; moves well across growing regions
- The brachytic dwarf trait provides shortened internode length for lower harvest height and greater leaf-to-stem ratio
- Ideal for hay or grazing systems; fast growing and quick recovery after cutting
- Harvest at 40 days or 40 inches, whichever comes first; for grazing, start when plants reach 18 to 24 inches, remove animals when two nodes are left above ground
- Recommended seeding rate: 20 to 25 pounds per acre at a depth of 1 inch (by drill is recommended)
**Silage Tolerance**

- *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; ideal for hay or grazing systems; fast growing and quick recovery after cutting*
- *Harvest at 40 days or 40 inches, whichever comes first; for grazing, start when plants reach 18 to 24 inches, remove animals when two nodes are left aboveground*
- *Recommended seeding rate: 20 to 25 pounds per acre at a depth of 1 inch (by drill is recommended)*

**Hay Quality**

- *High-yield-potential product with the BMR-6 gene 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)*

**Forage Quality**

- *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)
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<th>Product Description</th>
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**Key Scale**
1 = Excellent, 2 = Strong, 3 = Acceptable, 4 = Manageable, 5 = Not Recommended
Forage Sorghum

Product Name
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Placement

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Attributes
Placement
The right plan never stops working.

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

Sound like a plan?

KEY TAKEAWAYS

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

CHOOSE THE RIGHT GENETICS AND TRAITS FOR YOUR ENVIRONMENT

- The CROPLAN® seed canola portfolio brings genetic diversity to the farm with the latest weed-control options, like TruFlex™ canola, which offers outstanding crop safety.

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

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

MANAGE DISEASE

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

BLACKLEG

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

CLUBROOT

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

Taking these steps can help slow the spread of clubroot:

- Clean equipment thoroughly.
- Control canola volunteers and other weeds that can host the disease.
- Plant CP955RR or CP9982RR, clubroot-resistant CROPLAN® hybrids.

5 TIPS FOR STRAIGHT-CUTTING CANOLA

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

CROPLAN® SEED DELIVERS AN EXCELLENT SHATTER SCORE

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

% OF YIELD LOSS TO SHATTER

<table>
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<th>Variety</th>
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<tr>
<td>CP9978TF</td>
<td>1.8%</td>
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<tr>
<td>Roundup Ready®</td>
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<td>LibertyLink®</td>
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Source: 2019 Canola Shattering Variety Trial. Northern Resources, Roseau, Minn.

1. Results not statistically significant and may vary. Because of factors outside of WinField United’s control, such as weather, product application and any other factors, results to be obtained, including but not limited to yields, financial performance or profits, cannot be predicted or guaranteed by WinField United.
**CP930RR**

**Spring Canola**

**Characteristics**

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

**CP955RR**

**Spring Canola**

**Characteristics**

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

**CP9919RR**

**Spring Canola**

**Characteristics**

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

**CP9982RR**

**Spring Canola**

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* New multigenic resistance to blackleg; Rlm4, QTL
* Provides multiple resistance genes for clubroot protection
* High yield potential with good standability
* Works well in higher-yield environments

**CP9978TF**

**Spring Canola**

**TruFlex**

**Characteristics**

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* Excellent for straight-cutting with one of the industry’s leading shatter and pod drop scores
* TruFlex™ hybrid for optimal crop safety at high rates and a wide application window
* Excellent yield potential
* LepR3, RlmS provide enhanced blackleg resistance
### Blackleg Field Resistance
- **R** = Resistant
- **MR** = Moderately Resistant
- **MS** = Moderately Susceptible
- **S** = Susceptible

### Height Ratings
- **T** = Tall
- **M** = Medium
- **S** = Short

### RTP Ratings
- **L** = Low Response
- **M** = Moderate Response
- **H** = High Response

### Clubroot
- **R** = Resistant; clubroot genes are effective against pathotypes 2, 3, 5, 6 and 8

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

*Major resistance gene groups are subject to change.*

<table>
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### Key
- 1 = Excellent
- 2 = Strong
- 3 = Acceptable
- 4 = Manage
- 5 = Not Recommended

### New Roundup Ready® Canola
- TRUFLEx™ CANOLA

### Spring Canola
- ROUNDUP READY® CANOLA
Getting top yield takes hard work, not guesswork.

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

We offer two types of winter canola: Roundup Ready® Canola and Roundup Ready® Canola that is sulfonylurea residual tolerant (SURT®). These are two critical traits of winter canola that thrives in various cropping systems.

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

**KEY TAKEAWAYS**

1. CROPLAN® seed offers a choice of two herbicide-tolerant trait systems.
2. Proper row spacing and plant-to-plant spacing are important.
3. Practice good nutrient management, especially with nitrogen, sulfur and boron.

**PLANT AT THE RIGHT POPULATION**

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

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

**TIPS ON ROW SPACING**

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

**MONITOR NUTRIENT LEVELS**

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

- 100 to 130 lbs. of nitrogen
- 50 lbs. of phosphorus
- 100 lbs. of potassium
- 30 lbs. of sulfur

- Use caution when applying nutrients at seeding because canola is sensitive to fertilizer salts. Applying nutrients through top-dressing or prior to seeding is the safest method.

**TIPS ON PLANTING FOR WINTERHARDINESS**

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

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

**USE CUTTING-EDGE WEED CONTROL**

CROPLAN® seed offers two herbicide management systems.

**ROUNDUP READY® WINTER CANOLA**

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

**ROUNDUP READY® WINTER CANOLA WITH SURT®**

- Review the crop protection history of previous wheat crops.
- In field trials, SURT® products provide improved crop safety from previous wheat crops with a long-residual sulfonylurea herbicide.
- Canola is susceptible to many broadleaf herbicides with a long residual life.

**ROUNDUP READY® WINTER CANOLA WITH SURT®**

- Review the crop protection history of previous wheat crops.
- In field trials, SURT® products provide improved crop safety from previous wheat crops with a long-residual sulfonylurea herbicide.
- Canola is susceptible to many broadleaf herbicides with a long residual life.
### CP115WRR
Winter Canola

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

### CP225WRR
Winter Canola

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

### CP320WRR
Winter Canola

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

**KEY**

Scale
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Target your markets and hold nothing back.

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

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

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

ACHIEVE YOUR MARKETING OBJECTIVES

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

OIL-TYPE SUNFLOWER
- High Oleic
  Specific oil levels trending above 85% oleic based on market requirements.*
- NuSun®
  Standard for the oil market.
- Hulling
  All oil types that have proper seed size and ease of shell removal.
- Birdseed
  Regional markets throughout the United States for all oil types.

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- Birdseed
  Regional markets throughout the United States for all oil types.

*Contracting buyers’ current high oleic percent rate.

CONSIDER SEED SIZE AND COATING

SUNFLOWER SEED SIZE

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

PROSUN™ PRECISE SEED COATING

Prosun™ precise seed coating is available on a number of CROPLAN® sunflower varieties and offers:
- More seed size options per variety
- Consistent seed size, which helps optimize yield potential
- Uniformity in stand establishment
- Even growth for optimal weed, disease and insect management

CHOOSE THE RIGHT TRAITS

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

CONTROL WEEDS

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

ACTIVITY

<table>
<thead>
<tr>
<th>Activity on grass</th>
<th>BEYOND® HERBICIDE</th>
<th>EXPRESS® HERBICIDE</th>
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<tbody>
<tr>
<td>Recommended Section® Three herbicide tank mix</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Residual control</td>
<td>Yes</td>
<td>No</td>
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<tr>
<td>Better control of cocklebur, nightshade, lanceleaf sage, smartweed and grasses</td>
<td>Yes</td>
<td>No</td>
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<tr>
<td>Better control of Canada thistle, lambsquarters and wild buckwheat</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Can be applied across a broader crop stage, from one leaf to bud</td>
<td>No</td>
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<td>Can be applied a second time for later flushes</td>
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<td>Oil Content</td>
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- High yield potential for early maturity
- Shorter plant height; very uniform
- DMIR PI 8; resistant to all common U.S. races of downy mildew
- Nice seed size for dehulling option

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Oil Content</th>
<th>Dry down</th>
<th>Stalk Strength</th>
<th>Phomopsis</th>
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<th>- Excellent</th>
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- Excellent yield potential; great complement to CP455E
- Top performer in stressed environments
- Stronger standability compared to CP455E; good hybrid to plant early
- DMIR PI 8; resistant to all common U.S. races of downy mildew

<table>
<thead>
<tr>
<th>Characteristics</th>
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</table>

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

<table>
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<tr>
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- Top-end yield potential in high-yield environments
- Unique genetic diversity in the ExpressSun® lineup
- Short stature for excellent standability
- Great stalk strength but plant-to-plant spacing may reduce stalk strength

<table>
<thead>
<tr>
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</table>

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

<table>
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</table>

- Excellent yield potential and disease tolerance
- DMIR PI 10; resistant to all known races of downy mildew
- Excellent Phomopsis tolerance
- Potential to cross into both NuSun® and high oleic markets
**Clearfield® Sunflower**

**Characteristics**

<table>
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<tr>
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<th>Phomopsis</th>
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<td>3</td>
<td>1</td>
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<tr>
<td><strong>Excellent</strong></td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>2</td>
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</table>

- High yield potential with a great upright head appearance
- Stable high oleic levels
- DMR PI 6; resistant to most common U.S. races of downy mildew
- Full maturity; best kept in S.D. through High Plains

**Conventional Sunflower**

**Characteristics**

<table>
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<th>Characteristics</th>
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<tr>
<td><strong>Excellent</strong></td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>2</td>
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</tbody>
</table>

- 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

**Clearfield® Sunflower**

**Characteristics**

<table>
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<td>3</td>
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<tr>
<td><strong>Excellent</strong></td>
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<td>3</td>
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</table>

- High yield potential, oil and oleic levels
- Above-average disease tolerance
- DMR PI 6; resistant to most common U.S. races of downy mildew
- Full maturity; best kept in S.D. through High Plains

**Scale**

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

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

Grain not guaranteed to be sold in your area. Due to factors outside our control, WinField United does not guarantee oleic levels.

### Downy Mildew Resistance

- **Pl2 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.
- **Pl6 gene**: This gene is resistant to races prevalent before 2009; it is susceptible to races 314, 704, 714, 734 and 774.
- **Pl8 gene**: This gene can get infected, but then stops downy mildew from advancing or having an economic impact on all common races.
- **Pl15 gene**: This gene is exclusive to CROPLAN® hybrids and is resistant to all known races of downy mildew.
- **PlP gene**: Proprietary gene developed to control all known races of downy mildew.

### Key Scale

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

### Product Descriptions and Ratings

Find detailed descriptions and ratings of products for Conventional, Clearfield, and Express Sunflower:

- **Conventional Sunflower**
- **Clearfield Sunflower**
- **Express Sunflower**

### Table of Products

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Yield</th>
<th>Planting Size</th>
<th>Phomopsis</th>
<th>Sclerotinia</th>
<th>Height</th>
<th>Downy Mildew Resistance</th>
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### Answer Plot®

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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</table>
Managing for high performance leads to optimal results.

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

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

**KEY TAKEAWAYS**

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

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

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

**OPTIMIZE SEEDING RATE BY VARIETY**

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

**SEEDING RATE CHART**

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

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Calculation assumptions:
- Germ: 95%
- Survivability: 10%
- Total stand loss: 15%
- 1 MILLION SEEDS PER ACRE
- 1 PLANTS PER ACRE
- 1 PLANTS PER SQUARE FOOT

1. Response ranges show the importance of how varieties respond to each management practice to help ensure the highest yield potential. 2019 nationwide Answer Plot® data.
2. Because of factors outside of WinField United’s control, such as weather, product application and any other factors, results to be obtained, including but not limited to yields, financial performance or profits, cannot be predicted or guaranteed by WinField United.
**CP3419**

**Hard Red Spring**

**Characteristics**
- Standability: Not Recommended - Low - Moderate - High
- Fusarium Head Blight: 3 - 2 - 1 - Not Recommended
- Test Weight: 2 - 3 - 4 - 5
- Protein: 3 - 2 - 1 - Not Recommended

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

**Response Scores**
- RTP: 1 - 2 - 3 - 4
- RTN: 1 - 2 - 3 - 4
- RTP: 1 - 2 - 3 - 4

**CP3530**

**Hard Red Spring**

**Characteristics**
- Standability: Not Recommended - Low - Moderate - High
- Fusarium Head Blight: 3 - 2 - 1 - Not Recommended
- Test Weight: 2 - 3 - 4 - 5
- Protein: 3 - 2 - 1 - Not Recommended

- Excellent yield potential and strong protein variety
- Performs best at low-to-medium plant populations and with higher split-application nitrogen management
- Strong fusarium head blight and leaf disease tolerance; acceptable bacterial blight tolerance
- Strong standability for a taller plant

**Response Scores**
- RTP: 1 - 2 - 3 - 4
- RTN: 1 - 2 - 3 - 4
- RTP: 1 - 2 - 3 - 4

**CP3915**

**Hard Red Spring**

**Characteristics**
- Standability: Not Recommended - Low - Moderate - High
- Fusarium Head Blight: 3 - 2 - 1 - Not Recommended
- Test Weight: 2 - 3 - 4 - 5
- Protein: 3 - 2 - 1 - Not Recommended

- Best-suited for eastern Mont. through the Dakotas into northwestern Minn.
- Very good test weight; protein is an improvement over CP3888, similar to CP3616 and CP3930
- Medium height with good standability
- Low response to population; moderate response to nitrogen

**Response Scores**
- RTP: 1 - 2 - 3 - 4
- RTN: 1 - 2 - 3 - 4
- RTP: 1 - 2 - 3 - 4

**CP3910**

**Hard Red Spring**

**Characteristics**
- Standability: Not Recommended - Low - Moderate - High
- Fusarium Head Blight: 3 - 2 - 1 - Not Recommended
- Test Weight: 2 - 3 - 4 - 5
- Protein: 3 - 2 - 1 - Not Recommended

- Top-end yield potential and acceptable protein rating
- Best performance on moderate- to higher-yielding ground
- Recommend moderate planting populations
- Medium-tall variety with very good standability

**Response Scores**
- RTP: 1 - 2 - 3 - 4
- RTN: 1 - 2 - 3 - 4
- RTP: 1 - 2 - 3 - 4

**CP3903**

**Hard Red Spring**

**Characteristics**
- Standability: Not Recommended - Low - Moderate - High
- Fusarium Head Blight: 3 - 2 - 1 - Not Recommended
- Test Weight: 2 - 3 - 4 - 5
- Protein: 3 - 2 - 1 - Not Recommended

- Excellent yield potential balanced with strong protein
- Best performance is on highly productive ground; performs well across management styles
- Shorter plant type with very good standability
- Lower response to population; moderate response to nitrogen, consider split N applications

**Response Scores**
- RTP: 1 - 2 - 3 - 4
- RTN: 1 - 2 - 3 - 4
- RTP: 1 - 2 - 3 - 4

**CP3055**

**Hard Red Spring**

**Characteristics**
- Standability: Not Recommended - Low - Moderate - High
- Fusarium Head Blight: 3 - 2 - 1 - Not Recommended
- Test Weight: 2 - 3 - 4 - 5
- Protein: 3 - 2 - 1 - Not Recommended

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

**Response Scores**
- RTP: 1 - 2 - 3 - 4
- RTN: 1 - 2 - 3 - 4
- RTP: 1 - 2 - 3 - 4

**KEY**

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

- Protocols describe and ratings are generated from Assure PL® software and/or from the genetics supplier and may change as additional data is gathered.
**CP3099A**

Hard Red Spring

### Characteristics

<table>
<thead>
<tr>
<th>Characteristics</th>
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<tbody>
<tr>
<td>Standability</td>
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<tr>
<td>Fusarium Head Blight</td>
<td></td>
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<tr>
<td>Test Weight</td>
<td></td>
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</tr>
<tr>
<td>Protein</td>
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</table>

- Genetics new to the CROPLAN® lineup and the industry; awnless style variety
- Excellent yield potential; lower protein
- Strong disease package; sturdy plant type; large flag leaf allows for high yield opportunity
- Excellent forage/dual-purpose potential as silage or dry hay

### Response Scores

<table>
<thead>
<tr>
<th>RTP</th>
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<th>RTF</th>
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<tr>
<td>HIGH</td>
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**KEY**

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

### KEY Scale

- **1** = Excellent
- **2** = Strong
- **3** = Acceptable
- **4** = Manageable
- **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.

### Leaf Disease

- **Bacterial Leaf Streak**
- **Fusarium Head Blight**
- **Leaf Rust**
- **Stripe Rust**
- **Stem Rust**

### Baking Quality

- **Response to Nitrogen [RTN]**
- **Response to Fungicide [RTF]**

### Placement on Irrigation

- **Days to Heading**
- **Height**
- **Standability**
- **Protein**
- **Test Weight**
- **Shatter**

### Response to Population [RTP]

- **Days to Maturity**

### HARD RED SPRING WHEAT

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<td>CP3055</td>
<td>5</td>
<td>1</td>
<td>2</td>
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</table>
KEY TAKEAWAYS
1. Apply nitrogen strategically throughout the season.
2. Plant at the right population for optimal varietal performance.
3. Know your variety’s response-to-fungicide score and manage that variety accordingly.

A NEW SYSTEM FOR ANNUAL GRASS WEED CONTROLS
CROPLAN® seed is pleased to introduce the CoAXium® Wheat Production System, which combines a patented herbicide-tolerant trait, elite varieties, a new herbicide brand (Aggressor®) and industry stewardship. Aggressor® herbicides provide effective, consistent, broad-spectrum control of problem grasses including Bromus species, feral rye, jointed goatgrass, wild oats and volunteer cereals. Aggressor® herbicides provide control of tough winter and spring annual grassy weeds, including Group 2-resistant biotypes (ALS inhibitors).

MANAGE YOUR VARIETY’S RESPONSE-TO-NITROGEN (RTN) SCORE
Customize nitrogen rate by variety to capture ROI potential. Optimize yield potential on more productive acres with higher nitrogen management by planting varieties with higher RTN scores. Protect yield potential on tougher acres by utilizing lower RTN score varieties on acres with lower productivity soils or less nitrogen management.

USE RESPONSE-TO-FUNGICIDE (RTF) SCORES TO AID DECISION-MAKING
Fungicides are another tool to help you optimize the yield potential of your wheat crop. RTF scores help you understand where fungicides may increase yield potential and protect ROI potential.

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

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

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

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

SEEDING RATE (LBS/A)

SEED SIZE: SEEDS PER POUND

0.8 0.8  73  67  62  57  53  0.7  15.6
1.0 1.0  91  83  77  71  67  0.9  19.5
1.2 1.1 109 100  92  86  80  1.0  23.4
1.4 1.3 127 117 108 100  93  1.2  27.3
1.6 1.5 145 133 123 114 107  1.4  31.2
1.8 1.7 164 150 138 129 120  1.5  35.1
2.0 1.9 182 167 154 143 133  1.7  39.0
2.2 2.1 200 183 169 157 147  1.9  42.9

1. Because of factors outside of WinField United’s control, such as weather, product application and any other factors, results to be obtained, including but not limited to yields, financial performance or profits, cannot be predicted or guaranteed by WinField United.
**CP7909**

**Hard Red Winter**

**Characteristics**

<table>
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<tr>
<th>Standability</th>
<th>Fusarium Head Blight</th>
<th>Test Weight</th>
<th>Protein</th>
<th>Winterhardiness</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Recommended</td>
<td>Excellent</td>
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<td>2</td>
<td>3</td>
</tr>
</tbody>
</table>

- Excellent yield potential; 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

**Response Scores**

- RTP
- RTN
- RRF

**CP7869**

**Hard Red Winter**

**Characteristics**

<table>
<thead>
<tr>
<th>Standability</th>
<th>Fusarium Head Blight</th>
<th>Test Weight</th>
<th>Protein</th>
<th>Winterhardiness</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Recommended</td>
<td>Excellent</td>
<td>2</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

- High yield potential matched with outstanding disease package
- Excellent standability; allows for pushing 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

**Response Scores**

- RTP
- RTN
- RRF

**CP7017AX**

**Hard Red Winter**

**Characteristics**

<table>
<thead>
<tr>
<th>Standability</th>
<th>Fusarium Head Blight</th>
<th>Test Weight</th>
<th>Protein</th>
<th>Winterhardiness</th>
</tr>
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<tbody>
<tr>
<td>Not Recommended</td>
<td>Excellent</td>
<td>3</td>
<td>2</td>
<td>3</td>
</tr>
</tbody>
</table>

- Strong yield potential with ability to handle stress; new CoAXium® wheat variety
- Strong tolerance to drought and acid soils; resistant to soilborne mosaic virus
- Medium maturity CoAXium® wheat variety with broad adaptability
- Use fungicide to manage in areas with history of leaf rust

**Response Scores**

- RTP
- RTN
- RRF

**CP7050AX**

**Hard Red Winter**

**Characteristics**

<table>
<thead>
<tr>
<th>Standability</th>
<th>Fusarium Head Blight</th>
<th>Test Weight</th>
<th>Protein</th>
<th>Winterhardiness</th>
</tr>
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<tbody>
<tr>
<td>Not Recommended</td>
<td>Excellent</td>
<td>2</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

- Excellent yield potential; early-maturing CoAXium® wheat variety
- Strong straw and test weight; tolerates acid soils; resistant to stripe rust and soilborne mosaic virus
- Better-suited for good dryland management or irrigated acres
- Fungicide recommended in areas with stem rust

**Response Scores**

- RTP
- RTN
- RRF

**KEY**

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

Product descriptions and ratings are generated from AgriPro® trials and/or from the genetics supplier and may change as additional data is gathered.
The comparison ratings are with CROPLAN® wheats only. These ratings reflect trends observed in research trials, which will change based on various factors, including variations in rainfall, temperature and production patterns.

### 1 Maturity

1 = Early  
5 = Late

### 3 RTP/RTN/RTF Ratings

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

### 2 Height

1 = Short  
5 = Tall

### 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.

### Regions of Adaptation

- **Wheat Class**: Includes different types of wheat classes such as Hard Red Winter Wheat, Conventional Wheat, etc.
- **Hessian Fly Resistance**: Levels of resistance to Hessian Fly, a common pest in wheat.
- **Leaf Disease**: Categorization of leaf diseases, e.g., Stagonospora Glume Blotch, Barley Yellow Dwarf.
- **Fusarium Head Blight**: Resistance to Fusarium Head Blight, a serious fungal disease.
- **Placement on Irrigation**: Placement suitability for irrigation systems.
- **Winterhardiness**: Levels of winter hardiness, crucial for cold regions.
- **Leaf Rust**: Resistance to Leaf Rust, a common fungal disease.
- **Protein**: Protein content levels, important for quality.
- **Stripe Rust**: Resistance to Stripe Rust, another fungal disease.
- **Powdery Mildew**: Resistance to Powdery Mildew, a fungal disease.
- **Septoria Leaf Resistance**: Resistance to Septoria Leaf disease.
- **Seed Size Range (Seeds/Lb)**: Seed size range per pound.
- **Response to Population [RTP]**: Response to population density.
- **Response to Nitrogen [RTN]**: Response to nitrogen fertilization.
- **Response to Fungicide [RTF]**: Response to fungicide application.
You don’t get better yield by hoping for it.

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

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

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

Manage Your Variety’s Response-to-Nitrogen (RTN) Score
Customize nitrogen rate by variety to capture ROI potential. Optimize yield potential on more productive acres with higher nitrogen management by planting varieties with higher RTN scores. Protect yield potential on tougher acres by utilizing lower RTN score varieties on acres with lower productivity soils or less nitrogen management.

.rtnc.png

Use Response-to-Fungicide (RTF) Scores to Aid Decision-Making
Fungicides are another tool to help you optimize the yield potential of your wheat crop. RTF scores help you understand where fungicides may increase yield potential and protect ROI potential.

.rtfn.png

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

.rtp.png

Seeding Rate Chart
Example of how to use the chart:
1. Select total planting seed.
   Example: 1.4 million seeds per acre
2. Select seeds per pound.
   Example: 13,000
3. Determine recommended seeding rate.
   Example: 108 lbs. per acre
Calculation assumptions:
Germ: 95%
Survivability: 10%
Total stand loss: 15%

USE RESPONSE-TO-FUNGICIDE (RTF) SCORES TO AID DECISION-MAKING
Fungicides are another tool to help you optimize the yield potential of your wheat crop. RTF scores help you understand where fungicides may increase yield potential and protect ROI potential.

.rtf.png

1. Response ranges show the importance of how varieties respond to each management practice to help ensure the highest yield potential. 2019 nationwide Answer Plot® data.
2. Because of factors outside of WinField United’s control, such as weather, product application and any other factors, results to be obtained, including but not limited to yields, financial performance or profits, cannot be predicted or guaranteed by WinField United.
Winterhardiness
Weight
Test
Blight
Fusarium
Standability
Characteristics
Scores
Response

• 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

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

• 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

• 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

• 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

• 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
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.

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

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<tr>
<th>SOFT RED WINTER WHEAT</th>
<th>VARIETY</th>
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<th>CP8550</th>
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Product descriptions and ratings are generated from Answer Plot® trials and/or from the genetics supplier and may change as additional data is gathered.

Placement on Irrigation

Winterhardiness

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

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

EARLY-SEASON ADVANTAGES

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

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

ADDITIONAL ADVANTAGES

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

OUTSTANDING DISEASE PROTECTION

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

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

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

Warder® CX seed treatment has been shown to improve plant stands, regardless of planting date.

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

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

DISEASES AND INSECTS CONTROLLED

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

- Fusarium
- Pythium
- Phytophthora
- Rhizoctonia

ROOT ROT

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

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

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

PAIR WARDEN® CX WITH AN INOCULANT

Help meet the nitrogen needs of soybean crops by adding a microbial inoculant. These symbiotic rhizobia bacteria fix atmospheric nitrogen, improving modulation and boosting plant-available nitrogen.
EARLY-SEASON INSECT AND DISEASE CONTROL WITH OPTIMIZED PLANT VIGOR

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

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

**YIELD ADVANTAGE**

- **Fortivent Zn – 2018 Answer Plot® Testing**

<table>
<thead>
<tr>
<th>Variety</th>
<th>Untreated</th>
<th>Fortivent Zn</th>
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<tbody>
<tr>
<td>4895 110RM</td>
<td>280</td>
<td>+4.7 BU/A</td>
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<tr>
<td>6110 110RM</td>
<td>230</td>
<td></td>
</tr>
<tr>
<td>4099 110RM</td>
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<tr>
<td>4350 110RM</td>
<td>2845 90RM</td>
<td>3146 90RM</td>
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</tbody>
</table>

**Active Ingredients**

- **Insecticide**
  - Clothianidin 500
  - *Clothianidin 1,250

- **Base Fungicides (Acceleron® Seed Treatment)**
  - Fluoxastrobin 0.24 fl. oz./100 lbs. of seed
  - Prothioconazole 0.24 fl. oz./100 lbs. of seed
  - Metalaxyl 0.10 fl. oz./100 lbs. of seed
  - Ethaboxam (INTEGO® Solo) 0.34 fl. oz./100 lbs. of seed

- **Nematicide**
  - Poncho® VOTIVO® - 500 2.7 fl. oz./80,000 seeds

*Always read and follow label instructions.*
TECHNOLOGY

INNOVATIVE TECHNOLOGY

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

CORN TRAITS

• Farmers choose their level of insect protection field by field.
• SmartStax® RIB Complete® corn blend offers the broadest spectrum of above- and belowground insect protection with the simplicity and convenience of a single-bag refuge solution. Two modes of action against corn earworm and corn rootworm help optimize yield potential.
• VT Double PRO® RIB Complete® corn blend contains the first double-stacked trait with dual modes of action against aboveground insects and maximum protection against corn earworm. This extra protection helps increase yield potential while providing the simplicity and convenience of a single-bag refuge solution.
• DroughtGard® Hybrids provide farmers with a valuable tool for managing water-deficit risks.

SMARTSTAX® RIB COMPLETE® CORN BLEND

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

Aboveground Control

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

Belowground Control

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

Roundup Ready® 2 Technology and LibertyLink® Traits Together

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

The First Single-Bag Refuge Solution

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

Don’t Leave 10 bu/a Behind

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

VT DOUBLE PRO® RIB COMPLETE® CORN BLEND

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

Aboveground Control

VT Double PRO® RIB Complete® corn blend benefits:

• Controls the most above- and belowground insects.
• Provides optimal yield protection with two ways to control corn rootworm and corn earworm.
• Includes a blend of 95% traited and 5% refuge seed with no separate, structured refuge required in the corn-growing area.
• Offers a truly simple refuge-in-a-bag solution – just fill your planter and go.

Bringing New Germplasm to Market Faster

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

VT Double PRO® RIB Complete® Corn Blend Benefits

• Optimal yield protection with two ways to control corn earworm.
• A blend of 95% traited and 5% refuge seed with no separate, structured refuge required in corn-growing areas.
• The truly simple refuge-in-a-bag solution – just fill your planter and go.
TECHNOLOGY

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

ROUNDUP READY 2 XTEND® SOYBEANS
Built on high-yielding Roundup Ready 2 Yield® soybean technology, Roundup Ready 2 Xtend® soybeans contain the industry’s first biotech-stacked soybean trait with both dicamba and glyphosate herbicide tolerance. This tolerance gives farmers access to additional tools to help control glyphosate-resistant broadleaf weeds such as Palmer amaranth, waterhemp and marestail, along with other tough-to-control broadleaf weeds such as lambsquarters and velvetleaf.

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

1. 2012 Monsanto GroundBreaker plot trial based on approximately 250 growers in the western Great Plains.

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

- Traits Available With DroughtGard® Hybrids
DroughtGard® Hybrids will be available with the following corn traits: VT Double PRO® corn, VT Double PRO® RIB Complete® corn blend and Roundup Ready® Corn 2.

- Advantages of DroughtGard® Hybrids
• In drought-stress conditions that caused damaging yield losses, comparisons demonstrated a 5-bushel-per-acre performance advantage with DroughtGard® Hybrids over commercially available competitive check products.¹
• Ongoing research indicates that products with the drought-tolerant biotech trait have had more kernels per ear and can use less water during severe drought stress.
• DroughtGard® Hybrids have the potential to maintain top-end yield in well-watered conditions and provide a valuable tool for managing water-deficit risks.

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

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

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¹ 2012 Monsanto GroundBreaker plot trial based on approximately 250 growers in the western Great Plains.
TECHNOLOGY

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

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

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

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

ACCELERON® PROMOTES STRONG EARLY-SEASON GROWTH

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

Insect and Disease Protection for Corn
Insect Protection: Protection from early-season pests such as wireworms, seedcorn maggots, white grubs, grape colaspis and black cutworms (suppression).
Disease-Fighting Protection: Excellent control of soilborne and seedborne disease, including Fusarium, Rhizoctonia and Pythium.

Poncho®/VOTIVO® for Corn, Soybeans and Cotton
Acceleron® Seed Applied Solutions paired with Poncho®/VOTIVO® helps protect against seed and seedling diseases and early-season pests.

For corn: Offers a unique biological mode of action for nematode management. Protects against damage from a range of nematode species and early-season insects, from planting through early development.

For soybeans: Can provide the maximum level of protection against seed and seedling diseases; early-season insects; and nematodes including soybean cyst, reniform and root-knot.

For cotton: Controls early-season insects such as thrips and aphids, and also protects against damage from nematodes including reniform and root-knot.

Two-Year Performance
Source: 2011 and 2012 Internal Monsanto Internal Monsanto Commercial Field Trials. Individual results may vary.

1. Roundup Ready 2 Yield® soybeans yield higher than Roundup Ready® soybeans, based on 73 Monsanto field trials (17 to 20 per year) from 2004 to 2007. The four-year average percentage increase for Roundup Ready 2 Yield® equals 8.63, with a 95% confidence interval of 6.8% to 10.5% advantage from Roundup Ready 2 Yield®.

2. Data as of October 29, 2012. Includes all breeding and commercial strip trial data. All head-to-head comparisons are within a +/-0.4 day maturity. Data represents the top-performing Roundup Ready 2 Yield® products (with a minimum of 30 comparisons per product) versus competitive Pioneer® and NK® brands with Roundup Ready® by state.
TECHNOLOGY

ECONOMICAL, CONSISTENT HERCULEX® YIELD PROTECTION

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

HERCULEX® XTRA

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

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

HERCULEX® I

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

HERCULEX® XTRA AND HERCULEX® I DELIVER A WIDE WINDOW OF PROTECTION

**Black cutworm**

**Corn rootworm**

First- and second-generation European corn borer and southwestern corn borer

Western bean cutworm

Fall armyworm

HERCULEX® Insect Protection technology by Dow AgroSciences and Pioneer® Hi-Bred. Herculex® and the Herculex® logo are trademarks of The Dow Chemical Company (“Dow”) or an affiliated company of Dow. Bayer CropScience LP, 2 T.W. Alexander Drive, Research Triangle Park, NC 27709. Always read and follow label instructions. Liberty®, LibertyLink® and the Water Droplet Design are registered trademarks of Bayer. Liberty® is not registered in all states. For additional product information, call toll-free 1-866-99-BAYER (1-866-992-2937) or visit our website at www.BayerCropScience.us.

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

CROP AND GRAIN MARKETING STEWARDSHIP

Dow AgroSciences is a member of Excellence Through Stewardship® (ETS). Dow AgroSciences products are commercialized in accordance with ETS product launch stewardship guidance and Dow AgroSciences Product Launch Stewardship Policy. No crop or material produced from this product can be exported to, used, processed or sold across boundaries into nations where import is not permitted. Growers should talk to their grain handler or product purchaser to confirm their buying position for this product. For further information about your crop or grain marketing options, contact DAS at 877-4-TRAITS (877-487-2487). Information regarding the regulatory and market status of agricultural biotechnology products can be found at www.biotradestatus.com.

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

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

AGRISURE ARTESIAN®

- Maximize yield potential when it rains and increase yield potential when it doesn’t.

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

AGRISURE ARTESIAN® ADVANTAGE

AGRISURE VIPtera®

- More control of more insects for more yield potential.

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

- Agrisure Viptera® 3111

Above- and belowground insect control.

- Agrisure Viptera® 3220 E-Z Refuge®

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

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

AGRISURE VIPTERA® TRAIT PERFORMANCE ON WESTERN BEAN CUTWORM1

ACHIEVE REAL YIELDS WITH THE LIBERTYLINK® SYSTEM

The LibertyLink® trait and Liberty® herbicide offer a broad-spectrum weed-control program and an effective resistance-management tool.

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

LIBERTY® HERBICIDE

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

• 98% control of a broad spectrum of broadleaf weeds and grasses
• Excellent control of resistant weeds, including key weeds like Palmer amaranth, waterhemp and marestail
• A unique herbicide site of action (Group 10), unlike any other active ingredient on the market
• Plus, Liberty® is backed by the Liberty® Weed Control Guarantee

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

LIBERTYLINK® SYSTEM

▶️ LibertyLink® Soybeans

LibertyLink® soybeans provide $33+/A more profit potential. With the 2+ bushel advantage over Asgrow® Roundup Ready 2 Xtend® soybeans, there is an $18+/A profit potential on yield coupled with a $15+/A potential in lower system input costs. That is smart math. The LibertyLink® system is simply the better solution for stronger yield and superior weed control.

▶️ LibertyLink® Corn

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

1. Results based on five years of trials where Liberty® herbicide was applied according to S.T.O.P. Weeds with Liberty® herbicide guidelines and as part of a complete weed control program where an effective residual product was used, followed by Liberty® herbicide. Endorsement or recommendation by the universities is not implied. Seed costs based on survey of average trait pricing across the U.S. Herbicide costs based on 2017 grower pricing. No results guaranteed. Results may vary year to year and depending on rate of application, use, yield, geography, seed pricing and herbicide application costs.
2. The active ingredient in Liberty® is a Group 10 herbicide, which is the only broad-spectrum herbicide that effectively controls grasses and broadleaf weeds, and it has no known resistance in U.S. broadacre crops.

Seeds containing the LibertyLink® trait may be protected under one or more U.S. patents and may be planted only to produce one commercial crop in a single season, and only after signing a BASF Grower Technology Agreement. It is illegal to save seeds containing the LibertyLink® trait for use as planting seed or for transfer to others for use as planting seed.
Laboratory analysis can be less accurate when forage quality is not average. In the quality graphs below, the light bars represent where fiber and starch digestibility is either high or low. The analysis accuracy of these extremes is financially critical to forage growers and dairy farmers. Calibrate® forage quality tests maintain their accuracy as feeds drift toward the extremes.

**Calibrate® Patented Forage Quality Tests Offer Exceptional Digestibility Information**

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

For more information, contact your local WinField United representative or go to www.calibratetechnologies.com.
THE KEMIN® NUTRISAVE® SYSTEM HELPS OPTIMIZE FORAGE QUALITY

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

ACID-BASED PRODUCTS

- Fresh CUT® Plus Liquid Hay Preservative
  Applied to hay baled at up to 25% moisture. The blend of acids helps control the growth of mold and wild yeast, preventing bale heating and preserving nutrients.
- Silage SAVOR® Plus Liquid and Silage SAVOR® Dry Silage Preservatives
  These forage preservatives are applied to ensiled crops before storage. The acid blends are used to prevent mold and wild yeast growth, allowing for improved fermentation.
- Myco CURB® Liquid and Dry Mold Inhibitors
  Designed to prevent mold growth on stored grain, feed, and feed ingredients. For more than 35 years, Myco CURB® has been the gold standard for mold control.
- Ultra CURB® Liquid and Dry Mold Inhibitors
  These products contain a powerful blend of four organic acids designed to control heating in total mixed rations (TMRs).

INOCULANTS

- Kem LAC® HD Bacterial Inoculant
  A blend of three lactic-acid-producing bacteria to rapidly drop the pH of ensiled crops. Applied to all ensiled crops before storage, Kem LAC® HD helps speed fermentation for better dry matter retention.
- Kem LAC® LB 500 Bacterial Inoculant
  This combination product contains two strains of bacteria, one for producing high levels of lactic acid and a second to produce acetic acid. The result is better aerobic stability of the TMR during feedout.

BENEFITS OF THE NUTRISAVE® PROGRAM AND PRODUCTS

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

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

KEY FEATURES OF USING NUTRISAVE® PRODUCTS

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

PROVEN PERFORMANCE WITH NUTRISAVE® PRODUCTS AND PROGRAMS

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

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TECHNOLOGY

PROPER MANAGEMENT PROTECTS TECHNOLOGY’S VALUE

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

THINK BEFORE YOU USE BIN-RUN SEED

▷ 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 varieties and Roundup Ready 2 Xtend® 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 commingled 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 for quality and meets U.S. Federal Seed Act requirements
• Free of seedborne diseases
• Properly stored and conditioned

SOYBEAN AND CANOLA PIRACY

Seed containing a patented trait can only be used to plant a single commercial crop from which seed cannot be saved and replanted. Examples of seed containing a patented trait include but are not limited to Roundup Ready 2 Yield® soybeans, Roundup Ready 2 Xtend® soybeans, Roundup Ready® spring canola and Roundup Ready® winter canola. Additional information and limitations on the use of these products are provided in the Monsanto Technology Stewardship Agreement and the Monsanto Technology Use Guide. U.S. patents for Monsanto technologies can be found at the following webpage:


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, Monsanto Technology LLC, Syngenta Crop Protection and Dow AgroSciences have developed IRM guidelines that must be incorporated by everyone purchasing and planting insect-protected crops.

CORN REFUGE OPTIONS

The refuge on each farm may be arranged in a number of configurations. These options offer the flexibility to easily incorporate an effective corn refuge into farm operations. Options include the following:

• Plant a corn refuge as a block within a treated cornfield.
• Split the planter to alternate at least four consecutive rows of corn refuge with treated corn.
• Plant field perimeters or end rows to a corn refuge.
• See product tag for specific refuge configurations.

1. 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.
3 REFUGE PLANTING

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

4 TREATMENT

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

COMMON REFUGE CONFIGURATIONS

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

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## Refuge Requirements for Biotech Corn Products

<table>
<thead>
<tr>
<th>% Non-B.T. Refuge</th>
<th>Configurations</th>
<th>Refuge Location</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SmartStax® RIB Complete® Corn Blend</strong></td>
<td>5% in the bag</td>
<td>No separate planted refuge is required</td>
</tr>
<tr>
<td><strong>VT Double PRO® RIB Complete® Corn Blend</strong></td>
<td>5% in the bag</td>
<td>No separate planted refuge is required</td>
</tr>
<tr>
<td><strong>DroughtGard® Hybrids with VT Double PRO® RIB Complete® Corn Blend</strong></td>
<td>5% in the bag</td>
<td>No separate planted refuge is required</td>
</tr>
<tr>
<td><strong>SmartStax® Corn</strong></td>
<td>5% corn-growing areas; 20% cotton-growing areas</td>
<td>Block, Perimeter, Strips, Adjacent</td>
</tr>
<tr>
<td><strong>VT Double PRO® Corn</strong></td>
<td>5% corn-growing areas; 20% cotton-growing areas</td>
<td>Block, Perimeter, Strips, Adjacent</td>
</tr>
<tr>
<td><strong>Agrisure Viptera®</strong></td>
<td>20% corn-growing areas</td>
<td>Block, Perimeter, Strips, Adjacent</td>
</tr>
<tr>
<td><strong>Agrisure® 3000GT, Agrisure® CB/LL/RW</strong></td>
<td>20% corn-growing areas; 50% cotton-growing areas</td>
<td>Block, Perimeter, Strips, Adjacent</td>
</tr>
<tr>
<td><strong>Agrisure® GT/LL, Agrisure® CB/LL</strong></td>
<td>20% corn-growing areas; 50% cotton-growing areas</td>
<td>Block, Perimeter, Strips, Adjacent</td>
</tr>
<tr>
<td><strong>Herculex® XTRA Insect Protection</strong></td>
<td>20% corn-growing areas; 50% cotton-growing areas</td>
<td>Block, Perimeter, Strips, Adjacent</td>
</tr>
<tr>
<td><strong>Herculex® 1 Insect Protection</strong></td>
<td>20% corn-growing areas; 50% cotton-growing areas</td>
<td>Block, Perimeter, Strips, Adjacent</td>
</tr>
</tbody>
</table>

1. All refuge configurations require a minimum of four rows.
2. Provided as a summary only. Farmers must read the IRM/Grower Guide prior to planting.
3. SmartStax® RIB Complete®, VT Double PRO® RIB Complete® and DroughtGard® Hybrids with VT Double PRO® RIB Complete® corn blends are each a blend of 95% traited seed and 5% refuge seed interspersed in the bag and do not require a separate structured refuge in corn-growing areas.
Monsanto Company and Forage Genetics International, LLC are members of Excellence Through Stewardship® (ETS). Their respective products are commercialized in accordance with ETS Product Launch Stewardship Guidance, and in compliance with their respective Policies for Commercialization of Biotechnology-Derived Plant Products in Commodity Crops. Only 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.

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, Monsanto Technology LLC, 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.

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. SmartStax® RIB Complete® corn blend is not allowed to be sold for planting in the Cotton-Growing Area.

See the IRM/Grower Guide for additional information. Always read and follow IRM requirements.

In DroughtGard® Hybrids with RIB Complete® corn blend, the refuge seed may not always contain DroughtGard® Hybrids trait. 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. SmartStax® RIB Complete® corn blend is not allowed to be sold for planting in the Cotton-Growing Area. See the IRM/Grower Guide for additional information.

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

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

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

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

PLANTING REFUGE, PRESERVING TECHNOLOGY

Before opening a bag of seed, be sure to read and understand the stewardship requirements, including applicable refuge requirements for insect resistance management, for the biotechnology traits expressed in the seed as set forth in the Monsanto Technology/Stewardship Agreement that you sign. By opening and using a bag of seed, you are reaffirming your obligation to comply with the most recent stewardship requirements.
Please know that, despite the challenges, Bayer stands fully behind XtendMax® herbicide and will continue working with the EPA, growers, academics, and others to provide long-term access to this important herbicide.

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

CONTACT: Do NOT apply Any Herbicide to Seed in the Roundup Ready® Xtend Crop System unless it has a product label specifically authorizing that use. To use a herbicide in any manner inconsistent with its labeling is a violation of federal law. Refer to the Bayer Technology Use Guide for details and recommendations on using approved herbicides on seed in the Roundup Ready® Xtend Crop System.

SOYBEAN AND CANOLA PIRACY

Seed containing a patented trait can only be used to plant a single commercial crop from which seed cannot be saved and replanted. Examples of seed containing a patented trait include but are not limited to Genuity® Roundup Ready 2 Yield® soybeans, Roundup Ready 2 Xtend® soybeans, Genuity® Roundup Ready® spring canola and Genuity® Roundup Ready® winter canola. Additional information and limitations on the use of these products are provided in the Monsanto Technology Stewardship Agreement and the Monsanto Technology Use Guide. U.S. patents for Monsanto technologies can be found at the following webpages:

http://www.monsantotechnology.com

ALFAFA

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

IMPORTANT NOTICE CONCERNING ROUNDUP READY XTEND® CROP SYSTEM AND XTENDIMAX® HERBICIDE WITH VAPORGRIP® TECHNOLOGY

This notice updates or amends the information contained in this publication. A 9th Circuit Court ruling dated June 3rd, 2020, vacated the registration for XtendiMax® herbicide with VaporGrip® technology and certain other low-volatility dicamba products. The EPA is currently reviewing Bayer’s submission in support of a new registration for XtendiMax® herbicide for the 2021 season and beyond. Bayer’s submission included multiple new data and analyses, including by independent academics, which will allow EPA to make a science-based decision on a new XtendiMax™ herbicide registration. Visit Bayer’s XtendiMax® herbicide updates page for the latest information on the current registration status of XtendiMax® herbicide at www.roundupready.com/xtendiupdates