Make Every Harvest a ProHarvest.

2021 SEED GUIDE

PROHARVEST
SEEDS

10 Year Anniversary

proharvestseeds.com
Celebrating 10 years!

As we start to celebrate our 10th year in business at ProHarvest, we want to thank you for partnering with us. Because of you, we have become a strong independent seed company throughout the Midwest. As always, we are committed to providing you with the best genetics, traits and treatments. These products, along with the expertise to place them on each of your specific farms, are the reason for our company’s growth.

This year, like never before, we have learned that there can be a lot of uncertainty. Even if our face-to-face time is temporarily limited, you can be assured that our communication with each of you will stay strong. Our in-field product evaluations will continue so that we can bring you the best seed possible for your farm.

As ProHarvest enters the next ten years, we remain focused on you and your success. This is my personal promise to you: From planting to harvest, our company will be there to provide the products and services necessary to accomplish this goal.

We are committed and honored to continue our relationship with you this coming year. Together, we can Make Every Harvest a ProHarvest!

Randy Wilken
President, ProHarvest Seeds
At ProHarvest, we know that performance is what matters. Our 2021 line up of hybrids has been researched and developed for outstanding results. From SmartStax® RIB Complete® to conventional hybrids, this year’s wide range of options will produce top yields on your farm. We are confident that planting ProHarvest hybrids in your field will not only meet your needs, but exceed your expectations.

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**KEY PRODUCTS**

EX = Excellent, VG = Very Good, G = Good, F = Fair, P = Poor
Cover Crop Companion hybrids are preferred when utilizing a Cover Crop System because of their physical and agronomic characteristics.

New Hybrid Name: 81P88 TreRIB

81
Add 30 for relative maturity
111 day hybrid

P
P is for ProHarvest
Options like “S” for silage only hybrids

88
Assigned digits
Leaves room for the future

TreRIB
Trait names stay the same
New trait: Trecepta RIB

New hybrids for 2020-2021:

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GET MORE OUT OF YOUR GUIDE

Use your smartphones camera to Scan this code to be directed to the full set of corn product tech sheets.
proharvestseeds.com

Make Every Harvest a ProHarvest.
### 4630
**VT2PRIB**
**96 DAY**
- Great choice for early seeded or no-till acres
- Excellent yield potential across most soil types
- Semi-flex ear handles drought prone tough acres

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<th>ROOT STRENGTH</th>
<th>PLANT HEALTH</th>
<th>CORN ON CORN</th>
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**PROVEN**

### 71P16
**SSRIB, VT2PRIB, CONV**
**101 DAY**
- Leading 101 day product with tremendous ear girth
- Flex ear can tolerate many populations
- Good response from fungicide use

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**NEW**

### 6393
**VT2PRIB, RR2, CONV**
**103 DAY**
- Excellent late-season intactness and eye appeal
- Broadly adapted hybrid across varied soils
- Very good Goss’s Wilt rating

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**PROVEN**

### 6746
**SSRIB, VT2PRIB**
**107 DAY**
- Consistent performance with solid agronomics
- Excellent Goss’s Wilt and Green Snap tolerance
- Attractive fall appearance

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**PROVEN**

### 4990
**SSRIB, VT2PRIB**
**99 DAY**
- Strong performance across Central and West
- Very good dry down and late-season intactness
- May consider as dual purpose hybrid

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**PROVEN**

### 74P51
**SSRIB, VT2PRIB**
**104 DAY**
- Goes West well with strong Goss and greensnap
- Excellent seedling vigor and drought tolerance
- Solid agronomics and disease package

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**NEW**

### 6828
**SSRIB, VT2PRIB, CONV**
**106 DAY**
- Impressive disease tolerance
- Widely adapted hybrid that moves south well
- Excellent stalks and roots with low Green Snap risk

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**PROVEN**

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**Visit proharvestseeds.com to view full tech sheets on every product**

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*“This hybrid is one of my favorites because of its exceptional drydown while still packing a yield punch”*

- Jake Wilken
**2815**  
**CONV**  
**108 DAY**

- Exciting conventional hybrid with high yield potential
- Outstanding plant health and staygreen
- Excellent early season vigor for early seeding

**ROOT STRENGTH**

**PLANT HEALTH**

**CORN ON CORN**

**PROVEN**

**6816**  
**SSRIB**  
**108 DAY**

- Consistent performance across varied soils
- Very good stalks and roots
- Late season plant health widens harvest window

**ROOT STRENGTH**

**PLANT HEALTH**

**CORN ON CORN**

**PROVEN**

**6860**  
**GT**  
**108 DAY**

- High yielding hybrid with broad adaptation
- Excellent root strength and late season intactness
- Manage fields with history of heavy CRW pressure

**ROOT STRENGTH**

**PLANT HEALTH**

**CORN ON CORN**

**PROVEN**

**6893**  
**5222A EZ, 3220A EZ**  
**108 DAY**

- High performing Agrisure Artesian® hybrid
- Excels in Central and Western corn belt
- Good ear flex allows for moderate seeding rates

**ROOT STRENGTH**

**PLANT HEALTH**

**CORN ON CORN**

**PROVEN**

**78P60**  
**VT2PRIB**  
**108 DAY**

- Exceptional yields East to West
- Late flowering hybrid with very fast dry down
- Balanced disease package, girthy ears, deep kernels

**NEW**

**ROOT STRENGTH**

**PLANT HEALTH**

**CORN ON CORN**

**79P72**  
**3330 EZ**  
**109 DAY**

- Exciting new genetics
- Excels from DesMoines to the East
- Semi-determinate ear takes higher populations

**NEW**

**ROOT STRENGTH**

**PLANT HEALTH**

**CORN ON CORN**

**8015**  
**SSRIB, VT2PRIB, RR2, CONV**  
**110 DAY**

- Very good stalks and excellent roots
- Very good test weight grain on a semi-flex ear
- Average GLS and Goss’s Wilt tolerance

**PROVEN**

**ROOT STRENGTH**

**PLANT HEALTH**

**CORN ON CORN**

**8147**  
**SSRIB, VT2PRIB**  
**111 DAY**

- High-yielding hybrid with wide area of adaptation
- Produces semi-flex ears with deep kernels
- Avoid fields with history of Goss’s Wilt

**PROVEN**

**ROOT STRENGTH**

**PLANT HEALTH**

**CORN ON CORN**

**KEY PRODUCT**

“8015 is the best 110 day hybrid for your farm!”  
- Keith Knapp

proharvestseeds.com • 866-807-7015
81P88  SSRIB, TreRIB  111 DAY
- Widely adapted North to South and East to West
- Best performance on highly productive acres
- Use a fungicide to help maximize yield potential

“Highest yield product in the mid-maturity lineup!”

8251  5222 EZ, 3220 EZ  112 DAY
- Exceptional yield potential in a new set of genetics
- Ideally suited for Central Corn Belt and West
- Has potential for use as dual purpose hybrid

8277  SSRIB, VT2PRIB, RR2, CONV  112 DAY
- Provides consistent yields across environments
- Attractive fall appearance and intactness
- Requires high plant densities to maximize yield

8324  SSRIB, VT2PRIB, CONV  113 DAY
- Widely adapted hybrid with outstanding yield
- Very good Green Snap tolerance
- Yields well at moderate populations

8360  SSRIB, VT2PRIB  113 DAY
- Top-end yield potential in high yield environments
- Moves north well for full season hybrid
- Best performance at medium to med-high populations

“B360 shows very strong yield performance in the Central Corn Belt with great agronomics.”

8404  VT2PRIB, CONV  114 DAY
- Excellent test weight and grain quality
- Very good drought stress tolerance
- Closely manage fields prone to GLS or NCLB

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NEW KEY PRODUCT

84P93  SSRIB, DGVT2PRIB  114 DAY

- Very good stalks and roots aid in late season standability
- Suited to handle many different soil types
- DGVT2PRIB version runs slightly earlier maturity

“Elite new genetics bringing a powerful yield punch!”
- Eric Yoder

VALUE HYBRIDS: Value Hybrids are hybrids in excess supply that we have discounted so we can make room for newer genetics in our line-up. These products have proven themselves over time. They have a place on your farm as a solid performer and come at a great savings to you! They are a Win-Win!

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<td>111</td>
<td>CONV</td>
<td>MEDIUM</td>
<td>UPRIGHT</td>
<td>MEDIUM</td>
<td>SEMI-FLEX</td>
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<td>G</td>
<td>VG</td>
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<td>8312</td>
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<td>MEDIUM</td>
<td>SEMI-UPRIGHT</td>
<td>MEDIUM</td>
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<td>VG</td>
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TW = Test Weight, E = Emergence, SS = Stalk Strength, RS = Root Strength, SG = Stay Green, DT = Drought Tolerance
EX = Excellent, VG = Very Good, G = Good, F = Fair, P = Poor

CORN HERBICIDE OPTIONS BY TRAIT

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<thead>
<tr>
<th>CORN TRAIT NAME</th>
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<th>Bayer</th>
<th>Bayer</th>
<th>Bayer</th>
<th>Bayer</th>
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<td>Yes</td>
<td>Yes</td>
<td>Agrisure Duracade® 5222 E-Z Refuge®</td>
<td>Agrisure Viptera® 3330 E-Z Refuge®</td>
<td>Agrisure Viptera® 3220 E-Z Refuge®</td>
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<td>TRECTA</td>
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GLYPHOSATE: Yes
GLUFOSINATE: No
RECOMMENDED CORN SILAGE SELECTIONS

If high quality corn silage is your game, then take note of the hybrids highlighted below. These hybrids have been carefully selected from our lineup for yield and quality to give you the best of both worlds. High performing corn silage is another piece of the forage program we can put together for you here at ProHarvest.

<table>
<thead>
<tr>
<th>ProHarvest Hybrid</th>
<th>Relative Maturity</th>
<th>Yield (Ton/Ac.)</th>
<th>Crude Protein</th>
<th>Starch</th>
<th>Fat</th>
<th>NDFD 30 Rating</th>
<th>Milk Rating</th>
<th>Beef Rating</th>
<th>Whole Plant Digestibility</th>
<th>Kernel Texture</th>
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Visit proharvestseeds.com to view full tech sheets on every product
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.roundupreadyxtend.com/xtendimaxupdates.

Please know that, despite the challenges, Bayer stands fully behind XtendiMax® herbicide and will continue working with the EPA, growers, academics, and others to provide long-term access to this important herbicide.

However, no dicamba may be used in-crop with seed in the Roundup Ready® Xtend Crop System, unless and until approved or specifically permitted by the U.S. EPA and the appropriate state agency for such use. As of July 13, 2020, no dicamba formulations are currently registered by the U.S. EPA for in-crop use with seed in the Roundup Ready® Xtend Crop System in the 2021 season. Current stocks of low-volatility dicamba herbicides XtendiMax® herbicide, Engenia® herbicide, and FeXapan® herbicide previously approved for in-crop use with seed in the Roundup Ready® Xtend Crop System may not be used after July 31, 2020. Dicamba may harm crops that are not tolerant to dicamba. Contact the U.S. EPA and your state pesticide regulatory agency with any questions about the approval status of dicamba herbicide products for in-crop use with seed in the Roundup Ready® Xtend Crop System.

NOTICE: DO NOT APPLY ANY HERBICIDE TO SEED IN THE ROUNDUP READY® XTEND CROP SYSTEM UNLESS IT HAS A PRODUCT LABEL SPECIFICALLY AUTHORIZING THAT USE. TO USE A HERBICIDE IN ANY MANNER INCONSISTENT WITH ITS LABELING IS A VIOLATION OF FEDERAL LAW. REFER TO THE BAYER TECHNOLOGY USE GUIDE FOR DETAILS AND RECOMMENDATIONS ON USING APPROVED HERBICIDES ON SEED IN THE ROUNDUP READY® XTEND CROP SYSTEM.
Every bag of ProHarvest-brand soybeans is selected with you in mind. That’s because it is our job to bring you the best products for your farm. Our 2021 soybean lineup is more comprehensive and diverse than ever.

You will notice that we have chosen products with strong agronomic traits, pest resistance, disease tolerance, excellent emergence and standability. Our expertise on specific tillage systems and agronomic practices will enhance product performance.

Although the demand for conventional soybeans varies from year to year, there is a consistent request for this segment of the soybean market. Unlike traited soybeans, which are largely dominated by large corporations, the introduction of new conventional soybean genetics comes from companies large and small.

Visit proharvestseeds.com to view full tech sheets on every product.
As an independent seed company, we source our seed from multiple suppliers. Selecting our products from the industry’s most advanced seed genetics, trait innovations, and seed treatments creates a lineup that gives you high powered results that are fine-tuned for smaller geographical areas.

At ProHarvest, we review thousands of products each year seeking the ones with optimal performance and desirable agronomic characteristics. We combine our extensive research and testing programs with our experience and knowledge to determine what makes it into a ProHarvest Seeds bag.

The research isn’t limited to just corn and beans. ProHarvest invests in programs to test wheat, alfalfa, forage and cover crop varieties as well.

At the end of the day, no matter what you plant, with ProHarvest you can count on getting the choices, exceptional performance, and the buying power you need to maximize your profit potential.

**SOYBEAN HERBICIDE TOLERANCE BY TRAIT**

<table>
<thead>
<tr>
<th>SOYBEAN</th>
<th>TRAIT BRAND</th>
<th>Corteva</th>
<th>Bayer</th>
<th>Bayer</th>
<th>BASF</th>
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<tr>
<td></td>
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<td>Enlist E3</td>
<td>Xtend</td>
<td>Xtend Flex</td>
<td>GTLL</td>
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<td>E</td>
<td>X</td>
<td>XF</td>
<td>GL</td>
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<tr>
<td></td>
<td>GLYPHOSATE</td>
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<td>Yes</td>
<td>Yes</td>
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<tr>
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<td>GLUFOSINATE</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td></td>
<td>DICAMBA</td>
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<td>Pending EPA approval of a herbicide for in-crop use</td>
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<td></td>
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<tr>
<td></td>
<td>2,4-D</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
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<td></td>
<td>SULFONYLUREA (STS)</td>
<td>Select Products by Variety</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

proharvestseeds.com • 866-807-7015
ProHarvest Variety | Trait | Relative Maturity | Plant Height | Canopy/ Plant Type | Emergence | Standability | Stress Tolerance | PRR Resistance | Brown Stem Rot | SDS Tolerance | No Till Adapt.
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---
2059E | ENLIST E3 | 2.0 | MEDIUM | MEDIUM | E | VG | E | 1C & 3A | E | VG | E
25E18 | ENLIST E3 | 2.5 | MED-TALL | MEDIUM | E | VG | VG | NONE | E | G | E
2848E | ENLIST E3 | 2.7 | MED-TALL | MEDIUM | VG | VG | VG | E | VG | VG
30E11 | ENLIST E3 | 3.0 | MED-TALL | MED-BUSH | E | E | E | NONE | E | VG | E
3259E | ENLIST E3 | 3.2 | MED-TALL | MEDIUM | VG | VG | VG | E | VG | VG
3548E | ENLIST E3 | 3.5 | MED-TALL | MEDIUM | VG | VG | VG | E | VG | VG
35E12 | ENLIST E3 | 3.5 | MED-TALL | BUSH | VG | VG | E | 1K | E | VG | VG
3748E | ENLIST E3 | 3.7 | MEDIUM | MEDIUM | VG | VG | VG | 1K | E | VG | VG
3948E | ENLIST E3 | 3.9 | MEDIUM | MEDIUM | VG | VG | VG | NONE | G | VG | VG

EX = EXCELLENT • VG = VERY GOOD • G = GOOD • F = FAIR • S = SUSCEPTIBLE • P = POOR

Enlist E3® soybeans offer growers herbicide tolerance to Glyphosate, Glufosinate and 2,4-D, and limited set back restrictions. Enlist E3® soybeans will allow unprecedented herbicide options pairing up elite genetics with either the pre-packaged Enlist Duo, or Enlist One which can be paired with other approved herbicides.

Enlist E3 - Enlist E3® soybean

Visit proharvestseeds.com to view full tech sheets on every product
The Enlist™ System - Get Control of Tough Weeds

Following burndown, Enlist Duo® and Enlist One® with Colex-D® technology are the only herbicides containing 2,4-D that are labeled for preemergence and postemergence use with Enlist E3™ soybeans.

**Enlist Duo®**
- Convenient blend of 2,4-D choline and glyphosate
- Two modes of action to deliver control and help prevent resistance in your fields

**Enlist One®**
- Straight-goods 2,4-D choline with additional tank-mix flexibility
- Ability to tank-mix with Liberty® herbicide and other qualified herbicides, customizing the ratio of herbicides to match each farm’s needs

**Enlist E3™ Soybeans**
- New 2,4-D Choline
- Glyphosate
- Glufosinate

On-Target Applications
- 90% less drift than traditional 2,4-D
- 96% less volatile than 2,4-D ester

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No dicamba may be used in-crop with seed in the Roundup Ready® Xtend Crop System unless and until approved by the U.S. EPA and the appropriate state agency for such use. As of 7/13/2020, 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.*

### Table: ProHarvest Variety

<table>
<thead>
<tr>
<th>Variety</th>
<th>Trait</th>
<th>Relative Maturity</th>
<th>Plant Height</th>
<th>Canopy/Plant Type</th>
<th>Emergence</th>
<th>Standability</th>
<th>Stress Tolerance</th>
<th>PRR Resistance</th>
<th>Brown Stem Rot</th>
<th>SDS Tolerance</th>
<th>No Till Adapt.</th>
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<td>XTEND</td>
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</tbody>
</table>

**EX = EXCELLENT • VG = VERY GOOD • G = GOOD • F = FAIR • S = SUSCEPTIBLE • P = POOR**

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**Roundup Ready 2 Xtend **

Xtend – Roundup Ready 2

Roundup Ready 2 Xtend ® Soybeans continue to develop, bringing high yielding genetics from multiple breeding programs.
ProHarvest’s custom-blended proTect™ soybean-seed treatments are your prescription for maximum yield potential. They’re specially formulated for your growing conditions and proven to guard young seedlings against yield robbing disease and insect pressure.

All versions of proTect are applied at the recommended labeled rate to provide the highest level of protection possible. Add in the best polymers to ensure outstanding plantability and proTect becomes the Elite Soybean Seed Treatment in the industry.

**proTect D**: The most basic version, D provides protection against many seedling blight diseases.

**proTect DI**: Our most popular seed treatment, DI brings protection for Pythium, Phytophthora, Rhizoctonia, and many other seedling blights. Also included is an insecticide that provides activity against many early season soybean pests.

**proTect Ultra**: The ultimate in protection including proTect DI, plus Saltro, which is effective for Sudden Death Syndrome and Soybean Cyst Nematode plus a soybean inoculant.

No dicamba may be used in-crop with seed in the Roundup Ready® Xtend Crop System unless and until approved by the U.S. EPA and the appropriate state agency for such use. As of 7/13/2020, 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.*
LibertyLink® GT27™ soybeans have tolerance to both glyphosate and glufosinate. Growers will have flexibility in choosing which post applied herbicide will maximize their productivity.

<table>
<thead>
<tr>
<th>ProHarvest Variety</th>
<th>Trait</th>
<th>Relative Maturity</th>
<th>Plant Height</th>
<th>Canopy/Plant Type</th>
<th>Emergence</th>
<th>Standability</th>
<th>Stress Tolerance</th>
<th>PRR Resistance</th>
<th>Brown Stem Rot</th>
<th>SDS Tolerance</th>
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</table>

LLGT27 – LibertyLink® GT27™ soybeans

EX = EXCELLENT • VG = VERY GOOD • G = GOOD • F = FAIR • S = SUSCEPTIBLE • P = POOR

Visit proharvestseeds.com to view full tech sheets on every product
XtendFlex® soybeans will be the industry’s first triple-stacked soybean trait with tolerance to dicamba, glyphosate and now glufosinate herbicides.**

**Herbicide formulations approved for in-crop use.

---

<table>
<thead>
<tr>
<th>Variety</th>
<th>ProHarvest Variety</th>
<th>Relative Maturity</th>
<th>Plant Height</th>
<th>Canopy Type</th>
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</tr>
</tbody>
</table>

EX = EXCELLENT • VG = VERY GOOD • G = GOOD • F = FAIR • S= SUSCEPTIBLE • P = POOR

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No dicamba may be used in-crop with seed in the Roundup Ready® Xtend Crop System unless and until approved by the U.S. EPA and the appropriate state agency for such use. As of 7/13/2020, 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.*
### Features & Benefits

- **Effectively Treat Fusarium**
- **Common Root Rot**
- **Smuts and Bunts**
- **Rhizoctonia**
- **Wireworms**
- **White Grubs**

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<table>
<thead>
<tr>
<th>Product</th>
<th>Fall Dormancy</th>
<th>Winter Hardiness</th>
<th>ReGrowth</th>
<th>Wisconsin Disease Rating</th>
<th>Grazing Tolerance</th>
<th>Traffic Tolerance</th>
<th>Branch Root</th>
<th>Yield</th>
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<td>VF</td>
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<td>EX</td>
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</tr>
</tbody>
</table>

EX = EXCELLENT - VG = VERY GOOD - G = GOOD - F = FAIR - P = POOR

**Eldora II**
- High resistance to multiple isolates of Aphanomyces Race 2
- Branch rooted, for adaptation to most soil types
- Unmatched new genetics for high yield and forage quality

**Entree RL**
- Reduced lignin, high digestability with excellent yields
- Solid disease resistance package w/ high leaf-to-stem ratio
- Longer harvest window for long & short term rotations

**Hoppernot**
- Leafhopper resistant variety
- High quality, low maintenance; higher yield vs. other LH alfalfas
- Adapted to 3 or 4 cut systems. Performs well with grasses.

**L-446RR**
- High yielding, very fast recovery
- Roundup Ready® trait; great for problem fields
- Excellent winter hardiness

**HYBRIFORCE-2420/WET**
- Branch rooted hybrid Alfalfa
- Excellent disease package to Aphanomyces root rot race I & II
- Large root mass offers incredible persistence and traffic tolerance

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ProHarvest Seeds utilizes forage genetics that provide a balance of high quality with excellent tonnage. Our improved grasses and forages are selected from around the world and are chosen for quality, yield, persistence, disease resistance, and maturities that make it easier to manage hayfields and pastures.

### PASTURE & FORAGE POSITIONING CHART

<table>
<thead>
<tr>
<th>Rate for Pure Stand</th>
<th>Alfalfa</th>
<th>Red Clover</th>
<th>Orchard Grass</th>
<th>Tall Fescue</th>
<th>Timothy</th>
<th>Perennial Ryegrass</th>
<th>Festulolium</th>
<th>Smooth Brome</th>
<th>Italian Ryegrass</th>
<th>White Clover</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rate in a Mix</td>
<td>8-16</td>
<td>5-15</td>
<td>4-8</td>
<td>8-15</td>
<td>3-6</td>
<td>6-12</td>
<td>6-12</td>
<td>8-18</td>
<td>6-12</td>
<td>1-4</td>
</tr>
</tbody>
</table>

| Persistence | EX | VG | VG | EX | G | G | VG | EX | EX | EX |
| Drought Tolerance | EX | EX | VG | EX | P | P | VG | VG | VG | G |
| Winter Hardiness | EX | EX | VG | EX | VG | EX | VG | EX | EX | EX |
| Palatability | EX | EX | EX | VG | EX | EX | EX | EX | EX | EX |
| Yield Potential | VG | EX | VG | EX | G | VG | EX | EX | VG | EX |
| Grazing Tolerance | VG | EX | VG | EX | VG | EX | VG | EX | EX | EX |
| Disease Resistance | VG | EX | VG | EX | VG | EX | VG | EX | EX | EX |
| Management Level | High | Medium | Low | Medium | Low | Low | Low | Low | Low | Medium |

EX = EXCELLENT - VG = VERY GOOD - G = GOOD - F = FAIR - P = POOR

### HAYMASTER

**HAY MIX**

- Haymaster is an ideal grass-only mixture with high quality and tonnage
- Haymaster reaches peak production in late spring and early summer.
- Barenbrug’s elite soft-leaved tall fescues maintain high forage quality through the summer months.
- Combining this mix with a properly selected alfalfa can result in even more excellent hay quality and tonnage.

![5% Timothy](20% Orchard Grass) 75% Tall Fescue

### PRO MIX

**HAY MIX**

- The premium varieties in this mix are selected for a superior yielding, high quality, dry hay field or for haylage production.
- Ready to Seed Mix
- ProMix makes excellent horse and dairy quality hay.
- The late maturing varieties in this mix have been selected to match the growth patterns of alfalfa.

![10% Timothy](25% Orchard Grass) 65% Alfalfa

### ALL GRASS MIX

**HAY MIX**

- This hay mix is designed for high yields and high-quality hay production.
- A high-quality legume, such as alfalfa or a multi-year red clover, will increase tonnage and quality.
- This provides good yields and quality the first year of production.
- This is also an excellent mix for inter-seeding into thin alfalfa stands.

![55% Festulolium](40% Orchard Grass) 5% Timothy

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## Forage 

<table>
<thead>
<tr>
<th></th>
<th>Sorghum Sudan Grass</th>
<th>Hybrid Sudan Grass</th>
<th>Hybrid Pearl Millet</th>
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<tbody>
<tr>
<td>10</td>
<td>40-50</td>
<td>25-30</td>
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<td>VG</td>
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<tr>
<td>Low</td>
<td>Medium</td>
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<td>Low</td>
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### Rate for Pure Stand 
- 18-22 for 10-15
- 30-40 for 25-35

### Rate in a Mix 
- 8-16 for 10
- 6-12 for 25-35

### Persistence 
- EX for 5%
- VG for 10%

### Drought Tolerance 
- EX for 2%
- VG for 4%

### Winter Hardiness 
- EX for 3%
- VG for 5%

### Palatability 
- EX for 5%
- VG for 10%

### Yield Potential 
- EX for 5%
- VG for 10%

### Grazing Tolerance 
- VG for 5%
- EX for 10%

### Disease Resistance 
- VG for 5%
- EX for 10%

### Management Level 
- High for 5%
- Medium for 10%
- Low for 15%

---

### BEEFMASTER PASTURE MIX

- Ideal pasture mix for stocker cattle, cow calf pairs, sheep, and goats.
- The premium varieties make it an easy-to-manage rotational grazing opportunity as well as continuous graze.
- This blend’s dry matter production and quality makes it suitable for haylage/baleage and dry hay production.
- Beefmaster can also be an excellent product to over-seed in an existing stand.

- 10% White Clover
- 20% Perennial Ryegrass
- 50% Tall Fescue
- 20% Orchard Grass

---

### STOCKMASTER PASTURE MIX

- This multi-purpose mix is ideal for cattle, sheep, goat, llama, alpaca, and horse pastures.
- This mix can be used to improve stand density of existing pastures.
- Can also be used for high moisture cutting and chopping.
- Not recommended for droughty soils.

- 25% Orchard Grass
- 40% Perennial Ryegrass
- 35% Tall Fescue
- 15% Italian Ryegrass

---

### QUICK TO GROW PASTURE MIX

- Quick-to-Grow is a five-ingredient blend designed for a fast, easy start that can be planted later into the spring.
- This mix can be used to overseed underperforming pastures.
- Can be useful when a three or four year pasture is needed between haying and grazing.
- Fields that need some regenerative management will really respond well to this mix.

- 5% White Clover
- 5% Red Clover
- 15% Italian Ryegrass
- 25% Perennial Ryegrass
- 50% Festulolium

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As growers, we know that we cannot control weather or prices. However, we can be proactive with a cover crop plan. Over time, a well-developed strategy can erase the stubborn yield limitations of our land. In combination with new seed genetics and technology innovations, cover crop usage will begin to break through that yield barrier.

COVER CROP POSITIONING CHART

| Drill Seeding Rate | 35 | 50 | 13 | 30 | 15 | 30 | 5 | 8 | 15 |
| Drill Seeding Rate | 45 | 70 | 17 | 35 | 18 | N/A | 10 | 10 | 20 |
| Increase O.M. | EX | EX | F | G | EX | EX | F | F | EX |
| Fall Weed Suppression | EX | EX | VG | VG | VG | EX | VG | VG | VG |
| Spring Weed Suppression | EX | EX | G | VG | EX | EX | F | P | EX |
| Scavenge Nutrients | EX | EX | EX | EX | EX | EX | EX | EX | EX |
| Alleviate Compaction | EX | EX | VG | EX | EX | EX | VG | EX | EX |
| Improve Soil Tilth | EX | EX | VG | EX | EX | EX | VG | VG | EX |
| Improve Soil Structure | EX | EX | F | G | EX | VG | P | P | EX |
| Management Level | Medium | Medium | Medium | Low | High | High | Low | Low | High |

EX = EXCELLENT - VG = VERY GOOD - G = GOOD - F = FAIR - P = POOR

BONUS BLEND

This 4-way mix has a large planting window and low seeding rate compared to winter rye. The planting window is August 15th to September 30th. The mix contains reSTORE winter rye, barley, rapeseed and reCLAIM radish. The 4-way blend gives excellent fall weed suppression. It also provides multiple ways to scavenge nutrients. The lower seeding rate and chance that the barley may not over winter will make it easier to terminate in the spring.

LAND & LIVESTOCK BLEND

An easy to manage blend of reCLAIM radish and reSTORE winter rye. The deep rooting radish will scavenge nutrients and alleviate compaction. Cereal rye is one of the most aggressive nitrogen scavengers and helps to suppress tough to manage weeds, including winter annuals like marcastail. Can be used as a forage in both spring and fall.

N - FIX BLEND

N-Fix is a combination of the nutrient scavenging reCLAIM radish, crimson clover, and Fixation balansa clover. The reCLAIM radish breaks up compaction while absorbing key nutrients with its deep taproot. Both crimson and balansa clovers fix atmospheric nitrogen into plant-available nitrogen, helping reduce fertilizer input, while improving soil health by adding organic matter. Maximum nitrogen production is achieved at first flower of clovers.

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Hybrids are preferred when utilizing a Cover Crop System because of their physical and agronomic characteristics.

**A simple, easy way to get started into cover crops**, the Quick Cover Blend is a combination of the proven reCLAIM radish and VNS oats. This mix will establish fast, prevent fall erosion, and scavenge nutrients, including N, P, and K. The reCLAIM radish roots grow deep into the soil profile and will pull nitrogen and other leached nutrients back into the cash crop root zone, making them readily available for the next season. Oats are outstanding for weed suppression and erosion control.

**Quick Cover Blend**

- **80% Annual Ryegrass**
- **15% Radish**
- **5% Oats**

**Secure is a blend of Centurion annual ryegrass and reCLAIM radish.** This blend will break up compaction with both the deep taproot of a radish and the fibrous root system of annual ryegrass. Secure scavenges nitrogen and other nutrients for the next cash crop. Additionally, Secure does an excellent job with weed suppression and increasing soil health.

**Secure Blend**

- **20% Radish**
- **80% Annual Ryegrass**
- **15% Buckwheat**
- **3% Fixation**
- **13% Pearl Millet**

**This 8-way blend is designed for improving soil health.** The combination of multiple grasses, legumes and brassicas will “AwakeN” the soil biology. The very diverse blend will help to improve mineralization, soil structure, and active organic matter. It is primarily designed for taking advantage of soils that are fallow from June through August. This can also provide an excellent livestock feed while improving soil health.

**AwakeN Blend**

- **28% Cowpeas**
- **12% Crimson Clover**
- **2% Rape Seed**
- **3% Radish**
- **24% Oats**

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XtendFlex® soybeans have received full approval for planting in the United States but are pending approval in certain export markets. For 2020, XtendFlex® soybeans will be available as part of a stewarded introduction only to growers who have signed a 2020 XtendFlex® Stewardship Agreement and agree to follow the stewardship requirements.

ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. It is a violation of federal and state law to use any pesticide product other than in accordance with its labeling. NOT ALL formulations of dicamba or glyphosate are approved for in-crop use with Roundup Ready 2 Xtend® soybeans. NOT ALL formulations of dicamba, glyphosate or glufosinate are approved for in-crop use with products with XtendFlex® Technology. ONLY USE FORMULATIONS THAT ARE SPECIFICALLY LABELED FOR SUCH USES AND APPROVED FOR SUCH USE IN THE STATE OF APPLICATION. Contact the U.S. EPA and your state pesticide regulatory agency with any questions about the approval status of dicamba herbicide products for in-crop use with Roundup Ready 2 Xtend® soybeans or products with XtendFlex® Technology.

B.t. products may not yet be registered in all states. Check with your seed brand representative for the registration status in your state. DroughtGard® Hybrids with RIB Complete® corn blend the refuge seed may not always contain DroughtGard® Hybrids trait.

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. Products with XtendFlex® Technology contain genes that confer tolerance to glyphosate and dicamba. Products with XtendFlex® Technology contains genes that confer tolerance to glyphosate, glufosinate and dicamba. Glyphosate will kill crops that are not tolerant to glyphosate.Dicamba will kill crops that are not tolerant to dicamba. Glufosinate will kill crops that are not tolerant to glufosinate. Contact your seed brand dealer or refer to the Monsanto Technology Use Guide for recommended weed control programs.

Roundup Ready® 2 Technology contains genes that confer tolerance to glyphosate. Roundup Ready 2 Xtend® soybeans contain genes that confer tolerance to glyphosate and dicamba. Products with XtendFlex® Technology contains genes that confer tolerance to glyphosate, glufosinate and dicamba. Glyphosate will kill crops that are not tolerant to glyphosate. Dicamba will kill crops that are not tolerant to dicamba. Glufosinate will kill crops that are not tolerant to glufosinate. Contact your seed brand dealer or refer to the Monsanto Technology Use Guide for recommended weed control programs.

Bayer and Bayer Cross, DroughtGard®, RIB Complete®, Roundup Ready 2 Technology and Design®, Roundup Ready 2 Xtend®, Roundup Ready 2 Yield®, Roundup Ready®, SmartStax®, VT Double PRO® and XtendFlex® are trademarks of Bayer Group. Herculex® is a registered trademark of Dow AgroSciences LLC. LibertyLink® and the Water Droplet Design® is a trademark of BASF Corporation. Respect the Refuge and Corn Design® and Respect the Refuge® are registered trademarks of National Corn Growers Association.

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 and Roundup Ready 2 Xtend® soybeans. 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: http://www.monsantotechnology.com

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Seeds containing the Enlist, Herculex and PowerCore traits are protected under numerous US patents. Seeds containing patented traits can only be used to plant a single commercial crop and cannot be saved or replanted. You acknowledge and agree to be bound by the terms and conditions of the following documents in effect at the time of planting of this seed: (i) the Technology Use Agreement and (ii) the Product Use Guides for all technologies in this seed, including the Herbicide Resistance Management (HRM), and Use requirements detailed therein (www.corteva.us/Resources/trait-stewardship.html). To plant Enlist, Herculex and PowerCore seed, you must have a limited license from Corteva Agriscience (or other appropriate affiliates). In consideration of the foregoing, Corteva Agriscience grants to the Grower the limited license to use its technology to produce only a single commercial crop in the United States under the terms and conditions set forth in the Technology Use Agreement in effect at the time of planting of this seed. Always read and follow herbicide label directions prior to use: Enlist® products contain the Enlist trait that provides crop safety for use of labeled over-the-top applications of glyphosate, glufosinate and 2,4-D herbicides featuring Colex-D® technology when applied according to label directions. Following burndown, the only 2,4-D containing herbicide products that may be used with Enlist® crops are products that feature Colex-D technology and are expressly labeled for use on Enlist crops. 2,4-D products that do not contain Colex-D technology are not authorized for use in conjunction with Enlist products.

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Examples of seed containing a patented trait include but are not limited to Roundup Ready 2 Yield® soybeans and Roundup Ready 2 Xtend® soybeans. 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: http://www.monsantotechnology.com.
Due to the unique cropping practices do not plant Roundup Ready® Alfalfa in Imperial County, California, pending import approvals and until Forage Genetics International, LLC (FGI) grants express permission for such planting.

Forage Genetics International, LLC (“FGI”) is a member of Excellence Through Stewardship® (ETS). FGI products are commercialized in accordance with ETS Product Launch Stewardship Guidance, and in compliance with FGI’s Policy for Commercialization of Biotechnology-Derived Plant Products in Commodity Crops. Roundup Ready® Alfalfa has pending import approvals. 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. Growers should refer to http://www.biotradestatus.com/ for any updated information on import country approvals. Excellence Through Stewardship® is a registered trademark of Excellence Through Stewardship.

ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. Roundup Ready® crops contain genes that confer tolerance to glyphosate. Glyphosate herbicides will kill crops that are not tolerant to glyphosate. Roundup Ready® is registered trademarks of Bayer Group used under license by Forage Genetics International, LLC.

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 trademarks of Dow AgroSciences LLC.


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.

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

Before opening a bag of seed, be sure to read and understand the stewardship requirements, including applicable refuge requirements for insect resistance management, for the biotechnology traits expressed in the seed set forth in the technology agreement that you sign. By opening and using a bag of seed, you are reaffirming your obligation to comply with those stewardship requirements.

Respect the Rotation™ is an initiative to elevate the importance and grower adoption of herbicide diversity to prevent or manage weed resistance. Glyphosate weed resistance is a dominating threat throughout the United States that affects land values, rental agreements, conservation tillage and can greatly reduce yields. The use of Integrated Weed Management practices, such as use of residuals, preemergence herbicides and rotation of crops, traits and herbicides, is critical as no one method is likely to be completely successful.

Seeds containing the LibertyLink® trait may be protected under one or more U.S. patents and may be planted only to produce one (1) 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 seeds.

LibertyLink® GT27™ soybeans offer triple stack tolerance to Liberty, glyphosate, and, in select counties specified on the label, the first HPPD based herbicide for soybeans—Alite 27. Other HPPD herbicides not labeled for use with LibertyLink GT27 or isoxaflutole-resistant soybeans may cause significant crop injury. Alite 27 herbicide is only available for use in labeled counties.

Always read and follow label directions. Alite 27 is a restricted use herbicide. Alite, Liberty, and LibertyLink are registered trademarks of BASF. GT27 is a trademark of M.S. Technologies, L.L.C. and BASF. MS Technologies is a trademark of M.S. Technologies, L.L.C. ©2020 BASF Corporation / M.S. Technologies, L.L.C. All Rights Reserved. APN 20-INT-0014

Think Before You Bin-Run

Verification Required The last patent on the original Roundup Ready® soybean trait expired a few years ago and U.S. farmers may legally plant saved seed from some varieties of soybean containing the Roundup Ready® soybean trait. However, it is important that you check with your seed supplier to determine if a specific Roundup Ready® soybean variety is covered by other intellectual property rights, and 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 GenetiX® 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 co-mingled with other seed that’s covered by intellectual property rights.

High Value of New Branded Seed

Latest Technology
- High-yielding soybean technologies
- Better variety options
- Leading seed treatment options

Customer Service
- Deal agronomic support before and after the sale
- Replant policy support
- Convenience packaging and delivery

Reliable Germination and Quality
- Rigorously tested and meets U.S. Federal Seed Act requirements
- Free of seed borne diseases
- Properly dried and conditioned

LibertyLink GT27 soybeans receive calls and letters each year about potential seed compliance matters. Anyone with a concern or question can anonymously call 1-800-768-6387.
Make Every Harvest a ProHarvest.