

| | | | L DORMANCY | FORAGE YIELD | FORAGE QUALITY | EARLY SEEDLING GROWTH | SPRING VIGOR | REGROWTH AFTER CUTTING | DROUGHT STRESS | TRAFFIC TOLERANCE | APHANOMYCES ROOT ROT RACE 1 | APHANOMYCES ROOT ROT RACE 2 | ANTHRACNOSE | PHYTOPHTHORA ROOT ROT | FUSARIUM WILT | VERTICILLIUM WILT | BACTERIAL WILT | STEM NEMATODE | NORTHERN ROOT KNOT NEMATODE | SOUTHERN ROOT KNOT NEMATODE |
|----------------------------------|-------------------|--------------|------------|--------------|----------------|-----------------------|--------------|------------------------|----------------|-------------------|-----------------------------|-----------------------------|-------------|-----------------------|---------------|-------------------|----------------|---------------|-----------------------------|-----------------------------|
| PRODUCT | BREEDING CLASS | ROOT Type | FALL | | CH | IARA | CTER | ISTIC | CS . | | | | | | DISE | ASES | | | | |
| HybriForce-4400™ | Gen-4 Hybrid | Тар | 4 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | HR | R | HR | HR | HR | HR | HR | HR | MR | - |
| HybriForce-4420/WET™ | Gen-4 Hybrid | Branch | 4 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | HR | HR | HR | HR | HR | HR | HR | - | - | - |
| HybriForce-3400™ | Gen-3 Hybrid | Тар | 4 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | HR | MR | HR | HR | HR | HR | HR | HR | HR | R |
| HybriForce-3420/WET™ | Gen-3 Hybrid | Branch | 4 | 2 | 2 | 1 | 1 | 2 | 1 | 1 | HR | HR | HR | HR | HR | HR | HR | R | R | - |
| HybriForce-3430™ | Gen-3 Hybrid | Тар | 4 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | HR | R | HR | HR | HR | HR | HR | HR | R | - |
| Magnum 8™ | Non-Hybrid | Тар | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | HR | R | HR | HR | HR | HR | HR | R | R | - |
| Magnum 8-WET™ | Non-Hybrid | Branch | 4 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | HR | HR | HR | HR | HR | HR | HR | MR | - | - |
| Magnum 7™ | Non-Hybrid | Тар | 4 | 3 | 2 | 2 | 2 | 2 | 2 | 1 | HR | R | HR | HR | HR | HR | HR | HR | HR | R |
| Magnum Salt™ | Salt Tolerant | Branch | 4 | 5 | 2 | 3 | 4 | 3 | 2 | 2 | R | - | R | HR | HR | HR | HR | HR | HR | R |
| Multi-Strain ^{™*} Brand | Blend | Тар | 4 | 5 | 3 | 4 | 5 | 4 | 4 | 4 | MR | - | R | HR | HR | R | HR | - | - | - |
| Magna 100RR™* Brand | Roundup Ready® | Тар | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | HR | HR | HR | HR | HR | HR | HR | - | - | - |

* Multi-Strain and Magna 100RR are Dairyland Seed's brand names and varieties are not stated.

RATING SCALE

Rated 1 to 9, 1 = Excellent; - = Not rated

NOTE: Ratings are based on replications of data generated by Dairyland Seed and Corteva Agriscience. These ratings serve as a guide for selection and management of products. Individual product responses may vary depending on growing environment.

CODES

HR = High Resistance R = Resistance MR = Moderate Resistance

ALFALFA NUMBERING SYSTEM

HybriForce- 4 4 00[™] **HYBRID ALFALFA**

Generation

Fall Dormancy

High Yield 20/Wet Branch Root Hi-Gest® Alfalfa Technology

Trait Series

00

30

Magnum 8 - Wet[™]

Generation

CONVENTIONAL ALFALFA

Branch Root



*In 2017 - 2021 HybriForce-4400TH was grown in 977 Dairyland Seed on-farm HAY (Hybrid Alfalfa Yield) plot comparisons across ND, SD, MN, IA, WI, IL, IN and MI with a yield advantage of 5.9% across all cuts at all locations against competitive alfalfas. Hybrid responses are variable and subject to any number of environmental, disease and pest pressures.

**In over 5 years of research testing, our combined data from internal and 3rd party trials show HybriForce-4400™ with more than a 5% yield advantage when compared to HybriForce-3400.™

HybriForce-4400

GEN-4 HYBRID ALFALFA

OUR HIGHEST-YIELD POTENTIAL TAP-ROOT HYBRID ALFALFA

| FORAGE | FORAGE | EARLY SEEDLING | SPRING | REGROWTH | DROUGHT | TRAFFIC |
|----------|----------|----------------|----------|---------------|----------|-----------|
| YIELD | QUALITY | GROWTH | VIGOR | AFTER CUTTING | STRESS | Tolerance |
| 1 | 2 | 1 | 1 | 1 | 1 | 1 |

 Gen-4 hybrid alfalfa using msSunstra[®] Hybrid Alfalfa Technology



- 5.9% yield advantage* against competitors in 977 head-to-head, side-by-side comparisons
- 5% higher yielding** than HybriForce-3400™ in over 5 years of research testing
- Outstanding yield potential in the establishment year
- Racehorse-style of hybrid alfalfa with excellent disease protection
- Broadly adaptive alfalfa that excels in a wide range of environments
- Tall, dense, leafy hybrid alfalfa with fine stems
- Resistance to Aphanomyces race 2

HybriForce-4420/WET

GEN-4 BRANCH-ROOTED HYBRID ALFALFA

OUR NEWEST RELEASE THAT RAISES THE YIELD POTENTIAL FOR WET SOILS

| FORAGE | FORAGE | EARLY SEEDLING | SPRING | REGROWTH | DROUGHT | TRAFFIC |
|--------|---------|----------------|--------|---------------|---------|-----------|
| YIELD | QUALITY | GROWTH | VIGOR | AFTER CUTTING | STRESS | TOLERANCE |
| 1 | 2 | 1 | 1 | 1 | 1 | 1 |

 Gen-4 hybrid alfalfa using msSunstra® Hybrid Alfalfa Technology



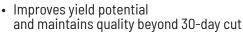
- Our best branch-root alfalfa for tough establishment
- Excellent 35/35 disease resistance rating
- · Outstanding yield potential in the seeding year
- Tall, dense, leafy hybrid alfalfa with fine stems
- Highly resistant to Aphanomyces root rot race 1 & 2
- Exhibits unique ability to modify root structure to match conditions

HYBRIFORCE 3400

| FORAGE YIELD | 2 |
|------------------------|---|
| FORAGE QUALITY | 1 |
| EARLY SEEDLING GROWTH | 1 |
| SPRING VIGOR | 1 |
| REGROWTH AFTER CUTTING | 2 |
| DROUGHT STRESS | 1 |
| TRAFFIC TOLERANCE | 1 |

GREAT BALANCE OF YIELD AND QUALITY

 Gen-3 hybrid alfalfa using msSunstra[®] Hybrid Alfalfa Technology



- Shows exceptional yield potential in good years and in drought years
- Provides a dense, uniform stand of high quality forage
- Very fine stemmed and palatable
- Awesome leaf retention in good conditions and under stress

HYBRIFORCE 3420/WET

BRANCH-ROOTED

| FORAGE YIELD | 2 |
|------------------------|---|
| FORAGE QUALITY | 2 |
| EARLY SEEDLING GROWTH | 1 |
| SPRING VIGOR | 1 |
| REGROWTH AFTER CUTTING | 2 |
| DROUGHT STRESS | 1 |
| TRAFFIC TOLERANCE | 1 |
| | |

HIGH-YIELDING BRANCH-ROOTED ALFALFA FOR WET CONDITIONS

 Gen-3 hybrid alfalfa using msSunstra® Hybrid Alfalfa Technology



FUNSTRA®

- Exhibits unique ability to modify root structure to match conditions
- Awesome yield potential in the establishment year
- Outstanding persistence and winter survival
- Excellent leaf-to-stem ratio for high quality forage
- Designed and bred to handle high stress environments

HYBRIFORCE 3430 GEN-3 HYBRID ALFALFA

| FORAGE YIELD | 2 |
|------------------------|---|
| FORAGE QUALITY | 1 |
| EARLY SEEDLING GROWTH | 1 |
| SPRING VIGOR | 1 |
| REGROWTH AFTER CUTTING | 2 |
| DROUGHT STRESS | 1 |
| TRAFFIC TOLERANCE | 1 |

HI-GEST® HYBRID ALFALFA FOR IMPROVED FORAGE QUALITY

- Gen-3 hybrid alfalfa using msSunstra® Hybrid and Hi-Gest® Alfalfa Technology
- Our best alfalfa for high quality forage
- High milk per acre in delayed cutting situations
- Exceptional yield potential while maintaining quality
- Produces fine-stemmed palatable forage
- Excellent disease resistance





ALL THE PRODUCTS. ALL THE DATA. DAIRYLANDSEED.COM

OUR WET ALFALFAS

HybriForce-4420/WET

GEN-4 BRANCH-ROOTED HYBRID ALFALFA

HYBRIFORCE 3420/WET



Dairyland Seed's branch root technology allows the alfalfa plant to modify its root structure based on stress factors present in the soil. This allows products like HybriForce-4420/Wet™ and our other "WET" varieties to be more productive and establish faster in heavy or wet soils, and also offers greater persistence in fields challenged by disease and stress.

MAGNUM 8

IMPRESSIVE YIELD POTENTIAL IN THE MAGNUM LINEUP

- Unique ability to produce high yields across multiple environments
- Exhibits high levels of resistance to most alfalfa diseases
- Highly digestible forage resulting in high RFQ scores
- Offers consistency in both yield and forage quality
- Resistance to Aphanomyces root rot race 2

| FORAGE YIELD | 2 |
|---------------------------|---|
| FORAGE QUALITY | 2 |
| EARLY SEEDLING GROWTH | 2 |
| SPRING VIGOR | 2 |
| REGROWTH AFTER CUTTING | 2 |
| DROUGHT STRESS | 2 |
| TRAFFIC TOLERANCE | 1 |

MAGNUM 8-WET

BRANCH-ROOTED NON-HYBRID GENETICS

- Outstanding disease resistance rating of 35/35
- Highly resistant to Aphanomyces root rot race 1 & 2
- Grows very aggressively in the seeding year with great yields
- Excellent yield potential and stand persistency
- Very good establishment in challenging wet conditions

| FORAGE YIELD | 2 |
|---------------------------|---|
| FORAGE QUALITY | 2 |
| EARLY SEEDLING GROWTH | 1 |
| SPRING VIGOR | 2 |
| REGROWTH AFTER CUTTING | 2 |
| DROUGHT STRESS | 2 |
| TRAFFIC TOLERANCE | 1 |

MAGNUM 7

HIGH YIELDING NON-HYBRID GENETICS

- Great forage quality potential with a wide harvest window
- Consistent performance
- Excellent disease resistance
- Scores very well for winter survival and persistence
- Resistance to Aphanomyces root rot race 2

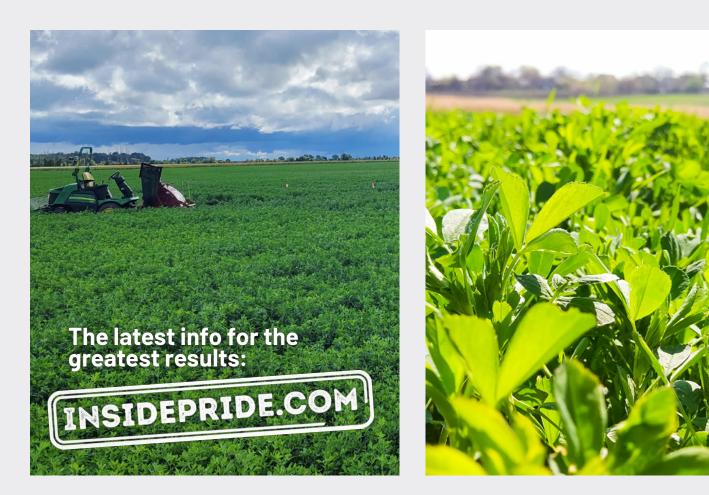
| FORAGE YIELD | 3 |
|---------------------------|---|
| FORAGE QUALITY | 2 |
| EARLY SEEDLING GROWTH | 2 |
| SPRING VIGOR | 2 |
| REGROWTH AFTER CUTTING | 2 |
| DROUGHT STRESS | 2 |
| TRAFFIC TOLERANCE | 1 |



SALT TOLERANT ALFALFA

- Selected and bred from saline soils in North Dakota
- Very good forage yield potential
- Exhibits high level of the branch-rooted trait
- · Able to thrive in wet soils

| FORAGE YIELD | 5 |
|---------------------------|---|
| FORAGE QUALITY | 2 |
| EARLY SEEDLING GROWTH | 3 |
| SPRING VIGOR | 4 |
| REGROWTH AFTER CUTTING | 3 |
| DROUGHT STRESS | 2 |
| TRAFFIC TOLERANCE | 2 |



MULTI-STRAIN

RELIABLE BLEND

| FORAGE YIELD | 5 |
|--|---|
| FORAGE QUALITY | 3 |
| EARLY SEEDLING GROWTH | 4 |
| SPRING VIGOR | 5 |
| REGROWTH AFTER CUTTING | 4 |
| DROUGHT STRESS | 4 |
| TRAFFIC TOLERANCE | 4 |
| Great genetics at a reasonable price Excellent seed quality | |

- Excellent seed quality
- Best choice for good performance at an economical price

DURASTAN^{TM*}

VALUE PRICED

| FORAGE YIELD | 6 |
|------------------------|---|
| FORAGE QUALITY | 5 |
| EARLY SEEDLING GROWTH | 5 |
| SPRING VIGOR | 5 |
| REGROWTH AFTER CUTTING | 5 |
| DROUGHT STRESS | 5 |
| TRAFFIC TOLERANCE | 5 |

- Economically priced for your marginal soils
- Backed by our quality assurance program
- Very good value for an alfalfa blend

MAGNA 100RR^{™*} BRAND

ROUNDUP READY° ALFALFA

| FORAGE YIELD | 3 |
|------------------------|---|
| FORAGE QUALITY | 3 |
| EARLY SEEDLING GROWTH | 3 |
| SPRING VIGOR | 3 |
| REGROWTH AFTER CUTTING | 3 |
| DROUGHT STRESS | 3 |
| TRAFFIC TOLERANCE | 3 |

 Good disease resistance



- Very winterhardy
- High resistance to Aphanomyces root rot race 1 & 2
- Early season weed control with glyphosate herbicides helps improve establishment success

ALFALFA

HiDF 501-SL^{™†} **BRAND TALL FESCUE**

SOFT-LEAF WITH HIGH RFV FOR A FESCUE

- · Endophyte-free
- Fast establishment
- · Very-late maturity matches well with alfalfa
- Seeding with alfalfa: 3 5 lbs/a
- Interseeding: 10 15 lbs/a
- Pure stand seeding: Drill 25 - 30 lbs/a Broadcast 30 - 35 lbs/a

HiDF 201^{™†} **BRAND ITALIAN RYEGRASS**

EXCELLENT NURSE CROP FOR ALFALFA

- Cool-season biennial with fast establishment
- High yield potential with high quality
- Seeding with alfalfa: 2 3 lbs/a
- Interseeding: 15 20 lbs/a
- Pure stand seeding: Drill 15 - 20 lbs/a Broadcast 35 - 40 lbs/a

CLOVERHAY^{™†} BRAND RED CLOVER

HIGH YIELDING MEDIUM RED CLOVER

- Excellent root and crown health
- Resistant to northern anthracnose and powdery mildew
- Tolerant to Fusarium root rot
- Pure stand seeding: 8 12 lbs/a

HiDF 401-LM^{™†} BRAND ORCHARDGRASS

LATE MATURING FOR IMPROVED FORAGE OUALITY

- Dense stand without clumping
- · Delayed maturity matches well with alfalfa
- Seeding with alfalfa: 3 5 lbs/a
- Interseeding: 10 lbs/a
- Pure stand seeding: Drill 20 - 25 lbs/a Broadcast 25 - 30 lbs/a

NU-TIM^{™†} BRAND TIMOTHY

HIGHER YIELD POTENTIAL

- Later maturity than common timothy
- Dark green and soft for high palatability
- Very good disease resistance
- · Ideal for hay or pasture mixtures
- Pure stand seeding: 6 8 lbs/a

SWEET-DAN^{™†} BRAND SORGHUM SUDANGRASS*

LATE-MATURING SORGHUM-SUDANGRASS

- Reaches forage maturity at 75 80 days
- · Maintains quality later in season for delayed cutting situations
- High crude protein and fiber digestibility potential
- Multi-purpose forage with excellent drought tolerance
- Plant 15 lbs/a in rows or 30lbs/a broadcast

* All Sorghum Sudangrass crops can develop "Prussic Acid" (HCN) under certain growing conditions, such as young plants recovering from drought and in plants subjected to killing frosts. It is best to graze or greenchop plants that are at least 12 - 18 inches.

[†] Dairyland Seed's brand names and varieties are not stated



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TOP-QUALITY PRODUCTS FOR FORAGE, SET-ASIDE AND CONSERVATION RESERVE

GB-130^{™†} BRAND

100% GRASS MIXTURE FOR HAY OR PASTURE

| ORCHARDGRASS | 30 % |
|--------------------|-------------|
| TALL FESCUE | 30% |
| PERENNIAL RYEGRASS | 15% |
| ITALIAN RYEGRASS | 15% |
| FESTULOLIUM | 10% |
| | |

- · Endophyte-free
- Cool-season vigor with lateseason drought tolerance
- Quick establishment from Italian ryegrass and festulolium
- Summer productivity from orchardgrass and tall fescue
- Direct seeding: 30 40 lbs/a
- Interseeding: 15 20 lbs/a

GB-150^{™†} BRAND

GRASS MIXTURE FOR YEAR-LONG PRODUCTION

| ORCHARDGRASS | 20 % |
|--------------------|-------------|
| PERENNIAL RYEGRASS | 20% |
| TIMOTHY | 20% |
| TALL FESCUE | 20 % |
| BROMEGRASS | 10% |
| FESTULOLIUM | 10% |
| | |

- Versatile soil conservation blend that is endophyte-free
- Very quick to establish with bromegrass and festulolium
- Rapid regrowth provided by orchardgrass and perennial ryegrass
- Superior winter hardiness from timothy and tall fescue
- Direct seeding: 30 40 lbs/a
- Interseeding: 15 20 lbs/a

GB-170^{™†} BRAND

GRASS MIXTURE FOR Equine productivity

| ORCHARDGRASS | 30 % |
|--------------------|-------------|
| BLUEGRASS | 15% |
| TIMOTHY | 15% |
| ITALIAN RYEGRASS | 15% |
| FESTULOLIUM | 15% |
| PERENNIAL RYEGRASS | 10% |

- High-traffic tolerance for pasture applications
- Great forage quality from orchardgrass and perennial ryegrass
- Great grazing persistence from bluegrass
- Quick establishment from timothy, Italian ryegrass and festulolium
- Direct seeding: 30 40 lbs/a
- Interseeding: 12 18 lbs/a

FOR MORE INFORMATION, VISIT DAIRYLANDSEED.COM

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

IMPORTANT:

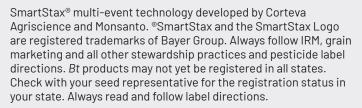
Characteristic scores provide key information useful in selecting and managing products in your area. Information and ratings are based on comparisons with other products sold by Dairyland Seed. Information and scores are assigned by Dairyland Seed and are based on period-of-years testing through 2021 harvest and were the latest available at time of printing. Some scores may change after 2022 harvest. Scores represent an average of performance data across areas of adaptation, multiple growing conditions, and a wide range of both climate and soil types and may not predict future results. Individual product responses are variable and subject to a variety of environmental, disease and pest pressures. Please use this information as only one component of your product positioning decision.

TRADEMARK OWNERSHIP:

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Qrome[®] products are approved for cultivation in the U.S. and Canada. They have also received approval in a number of importing countries, most recently China. For additional information about the status of regulatory authorizations, visit http://www.biotradestatus.com/

AM - Optimum[®] AcreMax[®] Insect Protection system with YGCB, HX1, LL, RR2. Contains a single-bag integrated refuge solution for above-ground insects. **AMXT** (Optimum[®] AcreMax[®] XTreme) - Contains a single-bag integrated refuge solution for aboveand below-ground insects. The major component contains the Agrisure[®] RW trait, a Bt trait, and the Herculex[®] XTRA genes. In EPA-designated cotton growing counties, a 20% separate corn borer refuge must be planted with Optimum AcreMax and Optimum AcreMax XTreme products.



Roundup Ready[®] is a registered trademark used under license from Monsanto Company. ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. Roundup Ready[®] crops contain genes that confer tolerance to glyphosate, the active ingredient in Roundup[®] brand agricultural herbicides. Roundup[®] brand agricultural herbicides will kill crops that are not tolerant to glyphosate.

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

Enlist Duo® and Enlist One® herbicides are not registered for sale or use in all states or counties. Contact your state pesticide regulatory agency to determine if a product is registered for sale or use in your area. Enlist Duo and Enlist One are the only 2,4-D products authorized for use with Enlist crops. Consult Enlist herbicide labels for weed species controlled. Always read and follow label directions.

Do not export brand alfalfa seed or crops containing Roundup Ready[®] alfalfa technology including hay or hay products, to China pending import approval. In addition, due to the unique cropping practices, do not plant this product in Imperial County, California.

Always read and follow pesticide label directions. Alfalfa with the Roundup Ready[®] alfalfa technology, provides crop safety for overthe-top applications of labeled glyphosate herbicides when applied according to label directions. Glyphosate agricultural herbicides will kill crops that are not tolerant to glyphosate. ACCIDENTAL APPLICATION OF INCOMPATIBLE HERBICIDES TO THIS VARIETY COULD RESULT IN TOTAL CROP LOSS.

All products are trademarks of their manufacturers.







Designed, verified and proven on our genetics

- Corteva Agriscience[™] seed treatments provide superior protection against diseases, insects and nematodes.
- Treatments are designed to work specifically with Corteva Agriscience genetics, drawn from more than 30,000 plot evaluations each year.
- We bring a century of seed knowledge to development of seed treatments, and conduct comprehensive trials to ensure treatments work with our seed.
- Seed treatments are tested extensively in real-world, on-farm conditions and in more than 60,000 plot evaluations annually.

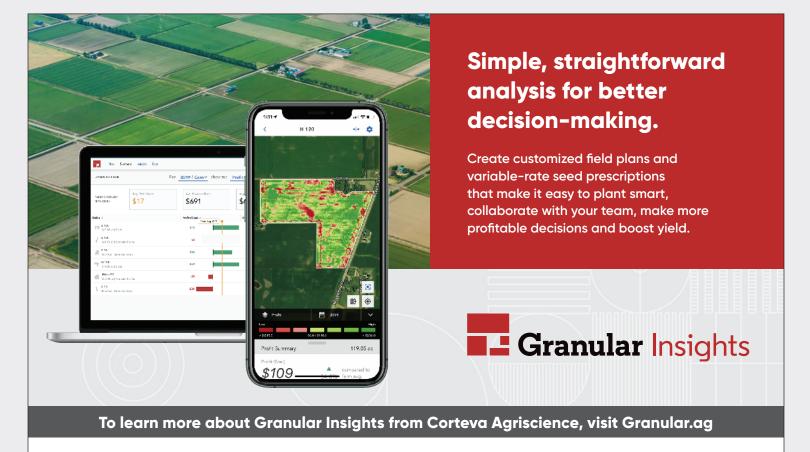
Exclusive seed treatment recipes

- LumiGEN® seed treatment recipes are available only to Corteva Agriscience seed brands.
- Recipes are formulated to work against specific pressures where you farm.
- LumiGEN seed treatments protect against some of the most damaging field pressures, including phytophthora, the #1 early-season disease in soybeans.

To learn more about LumiGEN Seed Treatments, visit DairylandSeed.com



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