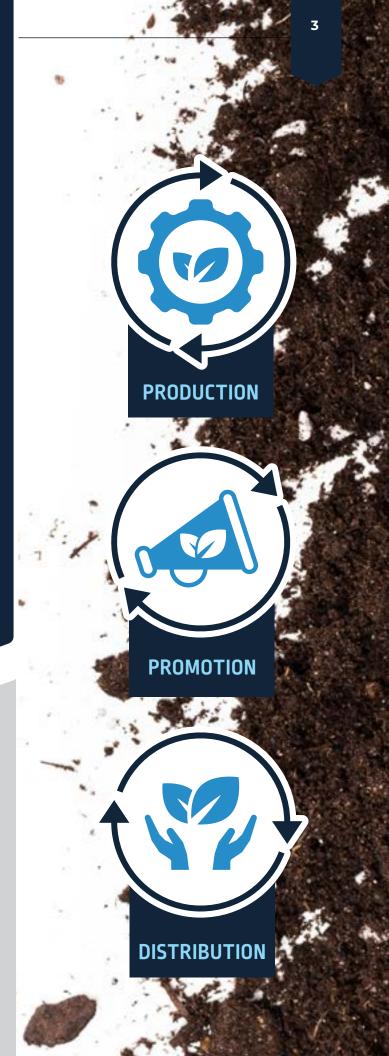
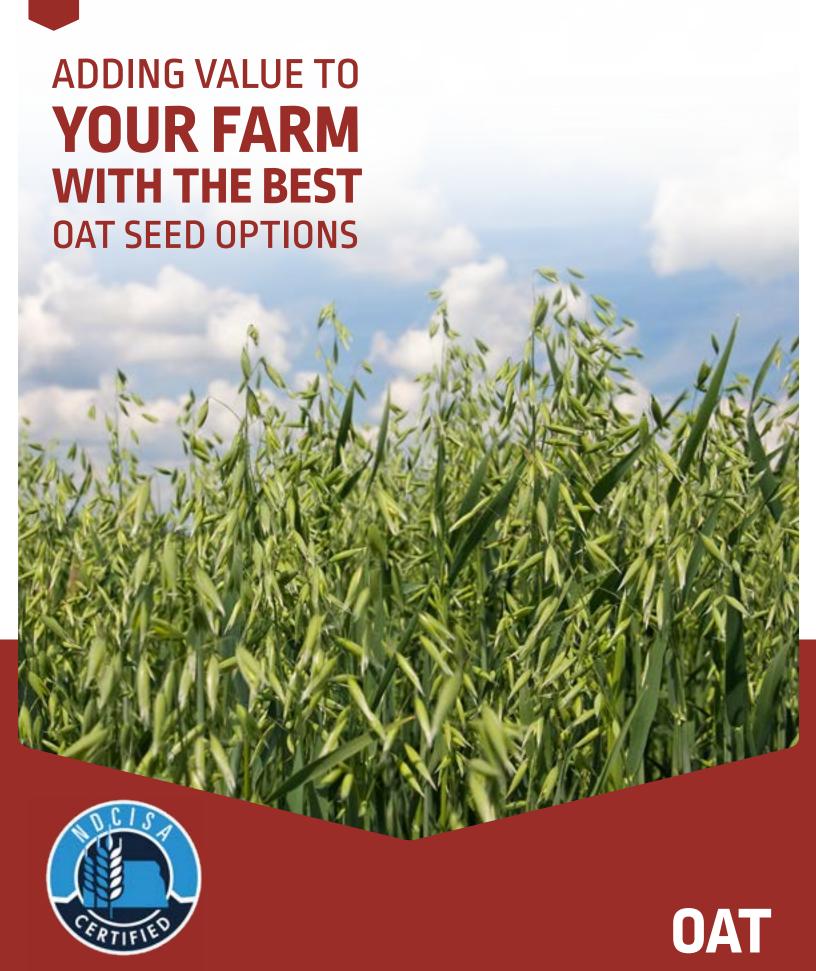


Established in 1929, North Dakota Crop Improvement and Seed Association (NDCISA) is a non-profit organization supported by county dues, certified seed grower membership, check-offs, and royalties from the seed increase program. NDCISA works closely with the Experiment Stations, State Seed Department, the Extension Service, and seed growers to promote general crop improvement practices and increase varieties best adapted to the state, and to make seed easily available to farmers.

We actively support research, extension, and educational programs. We encourage the development and implementation of practical and scientific crop production practices and serve as a communication link for North Dakota crop producers in legislative matters.

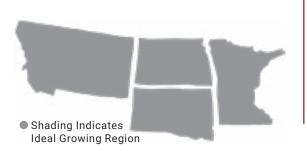
NDCISA is a non-profit organization striving to improve crop practices to make seed readily available for farmers. We are researching and educating to advance crop production practices. We help crop producers with legislative matters. North Dakota Crop Improvement & Seed Association is focused on uniting the agricultural community.





JURY

- Grain or Forage Type
- Excellent Test Weight



CHARACTERISTICS

Yield: **High**Straw Strength: **Medium**Maturity: **Medium**Height: **Tall**

NDSU NORTH DAKOTA

NEWBURG

- Grain or Forage Type
- Disease Resistance



CHARACTERISTICS

Yield: High
Straw Strength: Strong
Maturity: Late
Height: Medium



SOURIS

- Grain Type
- Excellent Test Weight



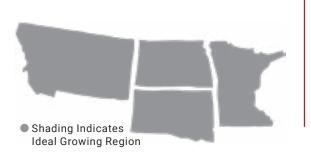
CHARACTERISTICS

Yield: High Straw Strength: Strong Maturity: Medium Height: Short



ROCKFORD

- Grain or Forage Type
- · High Test Weight



CHARACTERISTICS

Yield: **High**Straw Strength: **Strong**Maturity: **Late**Height: **Tall**

NDSU STATE UNIVERSITY

CDC HAYMAKER

- Good Forage Quality
- Forage Type
- Large Plump Seed



CHARACTERISTICS

Yield: High
Straw Strength: Strong
Maturity: Late
Height: Tall

Developed by Crop Development Centre, University of Saskatchewan

ORE3541M

- High Test Weight
- Resistant to Crown Rust and Smut
- Grain or Forage Type



CHARACTERISTICS

NEW

Yield: High Straw Strength: Strong Maturity: Average

Height: Medium



AAC DOUGLAS

Grain Oat

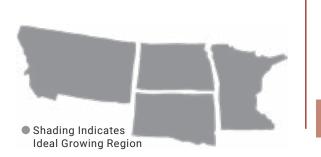


CHARACTERISTICS

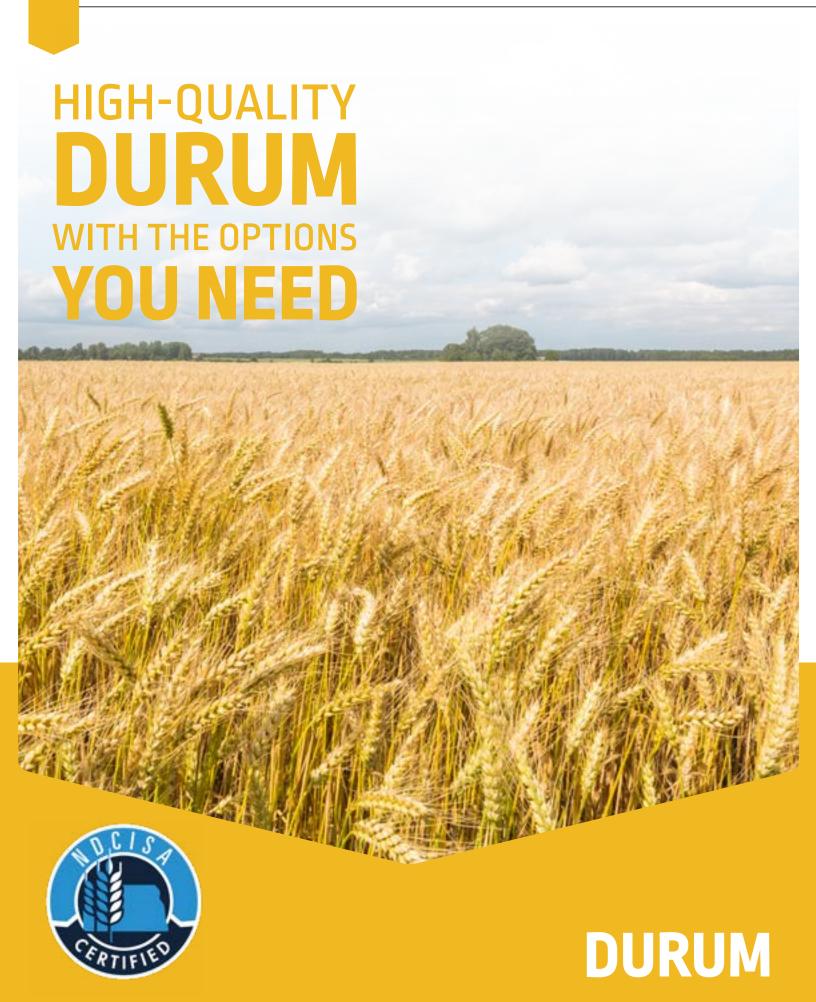
Yield: Very High Test Weight: Very High Disease: MR for Crown Rust

Height: Medium

Developed by Agriculture & Agri-Food Canada, Swift Current



NOTES	



AAC STRONGHOLD

AAC Stronghold durum was developed at Semiarid Prairie Agricultural Research Centre in Swift Current, Saskatchewan. It is a solid stem durum with excellent yield potential and short strong straw. The solid stem of AAC Stronghold provides excellent wheat stem sawfly tolerance. AAC Stronghold has a good overall disease package, high test weight, good gluten strength and low grain Cadmium.



ARIET

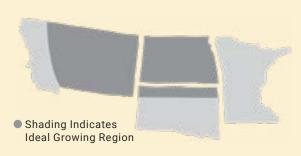
CHARACTERISTICS

Yield: High

Straw Strength: Strong (Solid Stem)

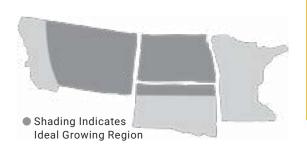
Maturity: **Medium** Height: **Medium**

Developed by Agriculture & Agri-Food Canada, Swift Current



ND GRANO

- · Low Grain Cadmium
- Good Quality



CHARACTERISTICS

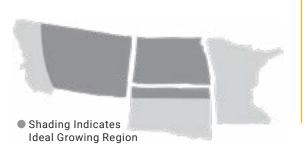
Yield: High Potential Stem Rust: Resistant Leaf Rust: Resistant Test Weight: High



DURUM

ND RIVELAND

- Low Grain Cadmium
- Good Quality



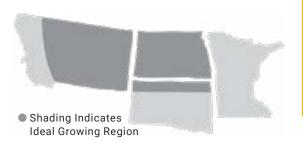
CHARACTERISTICS

Yield: High Potential Stem Rust: Resistant Leaf Rust: Resistant Test Weight: High



AAC SPITFIRE

- Resistant to common bunt as well as stem, leaf and stripe rust
- Low Grain Cadmium



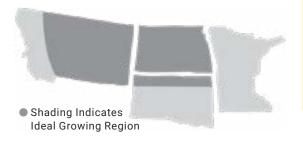
CHARACTERISTICS

Yield: High
Straw Strength: Strong
Maturity: Medium
Height: Medium

Developed by Agriculture & Agri-Food Canada, Swift Current

AAC CABRI

- Solid Stem
- Resistant to common bunt as well as stem, leaf and stripe rust
- Low Grain Cadmium



CHARACTERISTICS

Yield: High
Straw Strength: Strong
Maturity: Long
Height: Medium

Developed by Agriculture & Agri-Food Canada, Swift Current DURUM

CDC DEFY

Available In 2023



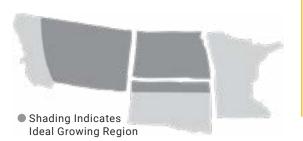
CHARACTERISTICS

Yield: High

Disease: MS for FHB
Maturity: Medium
Height: Tall

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Developed by Crop Development Centre, University of Saskatchewan



N	U	Ш	Ξ.)



HRSW

HARD RED SPRING WHEAT

ND FROHBERG



- · Good Straw Strength
- Excellent Disease Package
- Strong End-Use Quality



CHARACTERISTICS

Yield: High Potential

Stem Rust: MR
Leaf Rust: MS
Head Scab: MR
Test Weigh: High

NDSU NORTH DAKOTA

ND VITPRO

- Improved Straw Strength
- High Protein and Test Weight
- Outstanding Vitreous Kernel

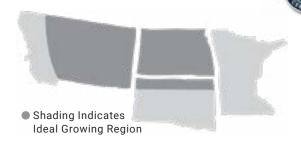


CHARACTERISTICS

Yield: High Potential
Straw Strength: Medium-Strong
Maturity: Medium Early
Height: Medium

NDSU STATE UNIVERSITY

AAC BRANDON



CHARACTERISTICS

Height: Short
Yield: High Potential
Stem Rust: MR
Leaf Rust: MS
Head Scab: MR
Test Weight: High

Developed by Agriculture & Agri-Food Canada, Swift Current



NOTES	













BARLEY

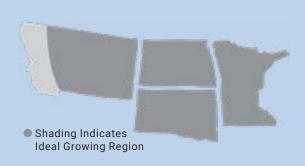
ABI CARDINAL

ABI Cardinal barley was developed by the Anheuser-Busch breeding program. ABI Cardinal is a midseason maturing two-row spring malting barley widely adapted to midwestern US. It has good yield potential, moderate straw length, moderate straw strength, good plumpness, and good foliar disease resistance. ABI Cardinal has lower DON and protein accumulation in the kernel.

• 2- Row Malt

VARIET

- Good Plumpness
- Good Foliar Disease Resistance



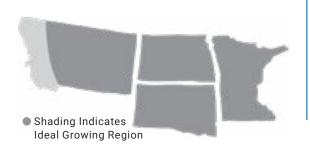
CHARACTERISTICS

Yield: Higher Potential Straw Strength: Moderate Height: Medium



TRADITION

- 6-Row Malt
- Excellent Agronomic Performance
- · Very Strong Straw Strength



CHARACTERISTICS

Yield: High

Stem Strength: Very Strong

Maturity: Medium Height: Medium-Short

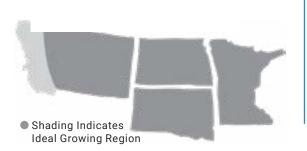




BARLEY

RAWSON

- 2-Row Feed
- Very Large Kernel



CHARACTERISTICS

Yield: Excellent
Straw Strength: Strong
Maturity: Medium
Height: Medium



CDC AUSTENSON

- · 2-Row Feed
- · Large Kernels With High Test Weight
- Resistant to Stem Rust



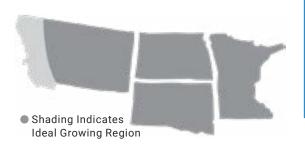
CHARACTERISTICS

Yield: High Straw Strength: Strong Maturity: Long Height: Medium

Developed by Crop Development Centre, University of Saskatchewan

CDC BOW

- 2-Row Malt
- · High Test Weight and Kernel Weight
- Resistant to Stem Rust



CHARACTERISTICS

Yield: High Straw Strength: Strong Maturity: Medium

Height: Short

Developed by Crop Development Centre, University of Saskatchewan

CDC MAVERICK

- · 2-Row Forage
- Smooth Awned for Improved Palatability
- · Large, Plum Grain
- High Test Weight, Kernel Weight and Protein
- Medium Resistant to Stem Rust
- Intermediate Resistance to Fhb and Don Accumulation

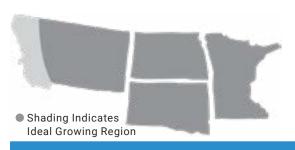
CHARACTERISTICS

Yield: High

Stem Strength: Strong

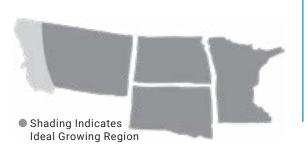
Maturity: Medium
Height: Tall

Developed by Crop Development Centre, University of Saskatchewan



CDC FRASER

- 2 -Row Malt
- Good Malting Characteristics
- Low Protein



CHARACTERISTICS

Yield: **High Potential** Stem Strength: **Strong** Kernels: **Large Plump**

Developed by Crop Development Centre, University of Saskatchewan



This unique system, NDCISA, a non-profit organization, allows for the highest quality and affordable seed for generations to come. Having foresight and vision for the future of farming, our board has made valuable decisions to help advance pure seed production and promotion. We are deeply rooted in the preservation of farming and the future it holds.

TROY COONS: NDCISA PRESIDENT



SOYBEAN PRODUCTS BRED FOR YOUR FILED

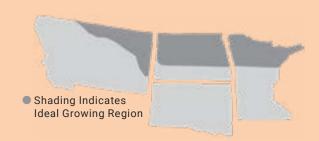


SOYBEAN

SOYBEAN

ND21008GT20

Tested as (ND14-6120), ND21008GT20 is a 00.8 maturity glyphosate tolerant (GT) soybean with a high yield potential similar to 'ND17009GT', but has a muchimproved tolerance to IDC with a score of 1.8. ND21008GT20 has a competitive yield package similar to many company RR2 types. ND21008GT20 is resistant to Race 4 of phytophthora root rot. It should be noted that ND21008GT20 is susceptible to Soybean Cyst Nematode. ND21008GT20 has purple flower color, tawny pubescence, brown pod with gray hila and dull seed coat luster.



Glyphosate Tolerate (GT)

Resistant to Lodging

ARIET

Excellent IDC Rating

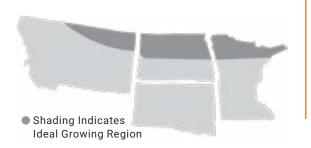
CHARACTERISTICS

Yield: High Potential
Relative Maturity: Early
Height: Medium
Maturity Group: 00.8

NDSU STATE UNIVERSITY

ND18008GT

- Glyphosate Resistance (GT)
- Aphid Tolerance
- Early Maturity



CHARACTERISTICS

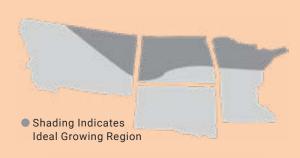
Yield: High Potential
Relative Maturity: Early
Height: Medium
Maturity Group: 00.8





ND17009GT

The appearance of ND17009GT includes a white flower, brown pod color, tawny pubescence, and black hila with a shiny seed coat luster. It has a high yield potential, is resistant to glyphosate, and is moderately tolerant to iron-deficiency chlorosis. This variety is a good fit for the northern areas of North Dakota because of its relative maturity of 00.9.





- Glyphosate Tolerant(GT), Moderately Tolerant to IDC
- Smooth Awned for Improved Palatability
- · Large, Plum Grain
- High Test Weight, Kernel Weight and Protein
- Medium Resistant to Stem Rust
- Intermediate Resistance to Fhb and Don Accumulation

CHARACTERISTICS

Yield: High Potential
Relative Maturity: Early
Height: Medium
Maturity Group: 00.9

ND ROLETTE

- Purple Flower Color
- Gray Pubescence
- Tan Pod Color, Buff Hila With A Dull Seedcoat
- Good IDC Tolerance



CHARACTERISTICS

Yield: High Potential
Relative Maturity: Early
Height: Medium
Maturity Group: 00.7



ND2108GT73

ND2108GT73 is the first NDSU GT soybean released that has a maturity suitable for central and southern North Dakota. ND2108GT73 has moderate tolerance to IDC with a score of 2.7 and is resistant to lodging. It should be noted that ND2108GT73 is susceptible to Soybean Cyst Nematode. ND2108GT73 has a white flower, tawny pubescence, brown pod color, dull seed coat, and yellow hila color. ND2108GT73 is a genetically modified organism with an off patent RR1 gene.



Glyphosate Tolerate (GT)

Resistant to Lodging

ARIET

Excellent IDC Rating

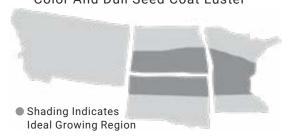
CHARACTERISTICS

Yield: High Relative Maturity: Late Height: Tall Maturity Group: 0.8

VDSU NORTH DAKOTA

ND DICKEY

- Medium IDC
- Purple Flower Color
- · Gray Pubescence Color
- · Tan Pods With Yellow Hila Color And Dull Seed Coat Luster



CHARACTERISTICS

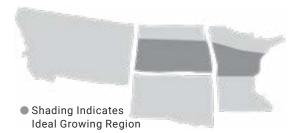
Yield: High Potential Relative Maturity: Early Height: Medium Maturity Group: 0.7



SOYBEAN

ND BENSON

- SCN Resistance
- Conventional Type
- White Flower Color
- Gray Pubescence
- Tan Pod Color And Buff Hila With Dull Seed Coat Luster



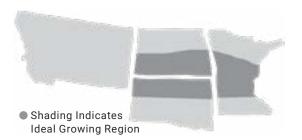
CHARACTERISTICS

Yield: High Potential
Relative Maturity: Medium
Height: Medium
Maturity Group: 0.4



ND STUTSMAN

- Purple Flower Color
- Gray Pubescence
- Brown Pod Color And Yellow Hila With Dull Seed Coat Luster
- · Resistant to Lodging



CHARACTERISTICS

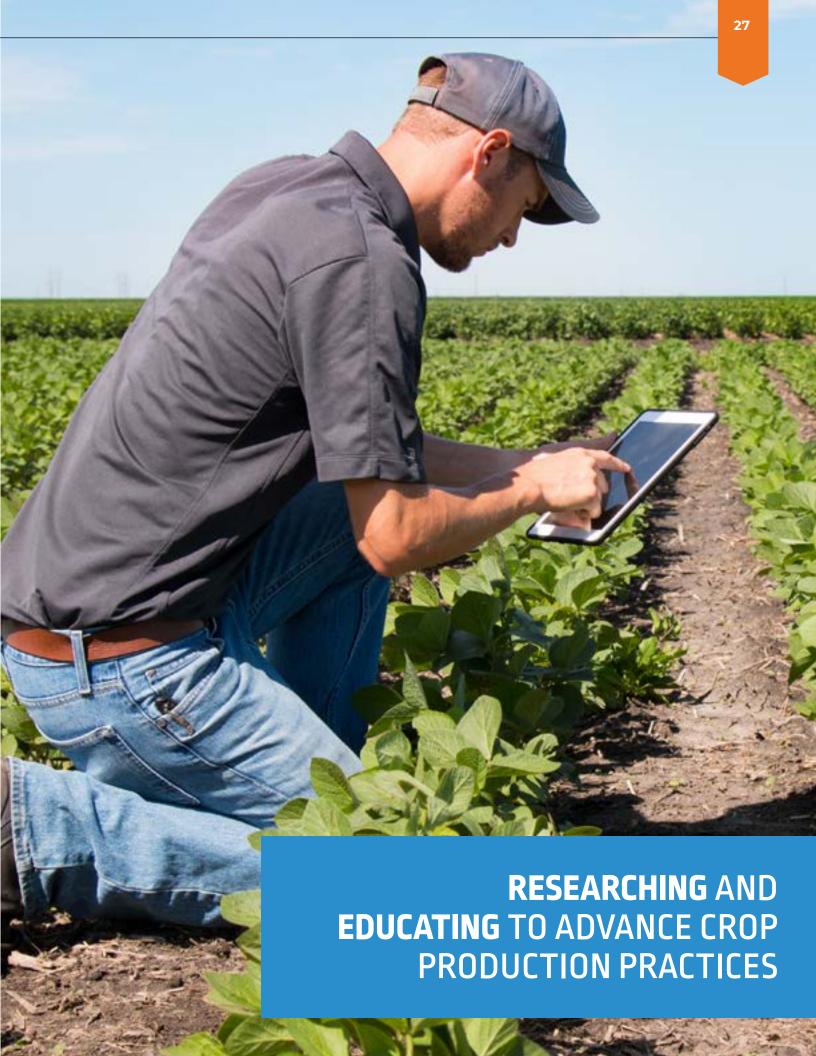
Yield: High Potential
Relative Maturity: Medium-Late
Height: Medium
Maturity Group: 0.7

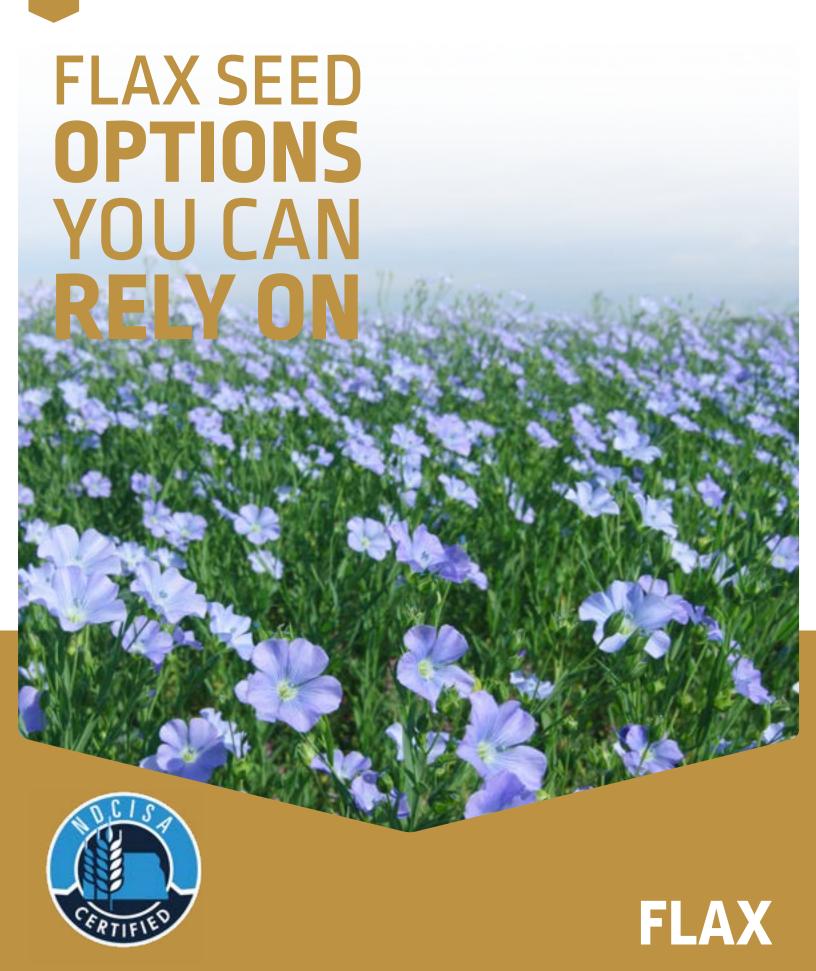




For a business to survive, it needs to adjust and change to remain relevant. Recently NDCISA has expanded its presence within the seed industry. Currently, NDCISA offers varieties not only from NDSU but from various states and Canada.

MARK SEASTRAND: NDCISA NE DISTRICT DIRECTOR





FLAX

CDC ROWLAND

CDC Rowland flax was developed at the Crop Development Centre of University of Saskatchewan in Saskatoon, Saskatchewan. CDC Rowland is a large, high yielding brown seeded flax variety with very good lodging resistance and later maturity.



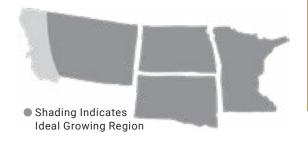
CHARACTERISTICS

Yield: High Potential Maturity: Late Seed Color: Brown Seed Size: Large

Developed by Crop Development Centre, University of Saskatchewan

GOLD ND

- Excellent Yield
- Good Oil Content and Oil Quality
- Good Tolerance to Flax Wilt
- Resistant to Flax Rust



CHARACTERISTICS

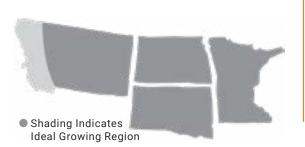
Yield: High Seed Color: Yellow Maturity: Medium Height: Medium Tall





ND HAMMOND

- · Resistant to Flax Rust.
- Good Oil Quality
- Resistant to Flax Wilt



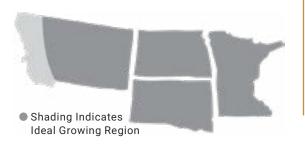
CHARACTERISTICS

Yield: High Potential Seed Color: Brown Maturity: Medium Height: Medium



AAC BRIGHT

- Moderately Resistant to Flax Wilt
- Good Lodging Resistance
- Resistance to Flax Rust



Yield: High

Straw Strength: Strong

Maturity: Long
Height: Tall

Seed Color: Yellow

Developed by Agriculture & Agri-Food Canada, Swift Current

CDC GLAS

- · Moderately Resistant to Fusarium Wilt
- Resistance to Flax Rust
- Good Lodging Resistance



CHARACTERISTICS

Yield: High

Straw Strength: Strong

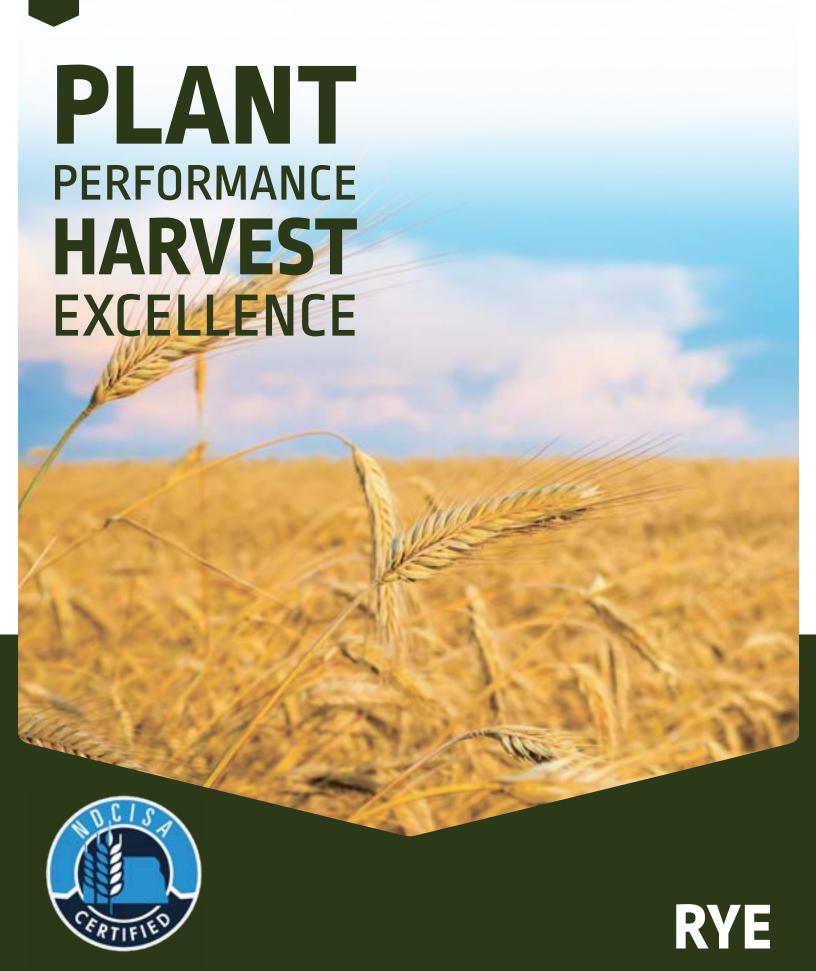
Maturity: Long

Height: Tall
Seed Color: Brown

Developed by Crop Development Centre, University of Saskatchewan

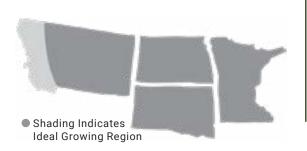


NOTES	



ND DYLAN

- Improved Grain Production Over All Current Varieties
- Excellent Winter Hardness



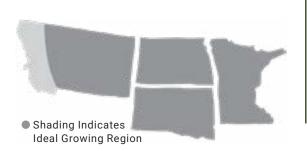
CHARACTERISTICS

Yield: **High**Straw Strength: **Strong**Maturity: **Medium-Late**Height: **Tall**

NDSU STATE UNIVERSITY

ND GARDNER

- Forage/Cover Crop Type
- Fast Canopy Establishment



CHARACTERISTICS

Yield: Good
Straw Strength: Strong
Maturity: Very Early
Height: Tall

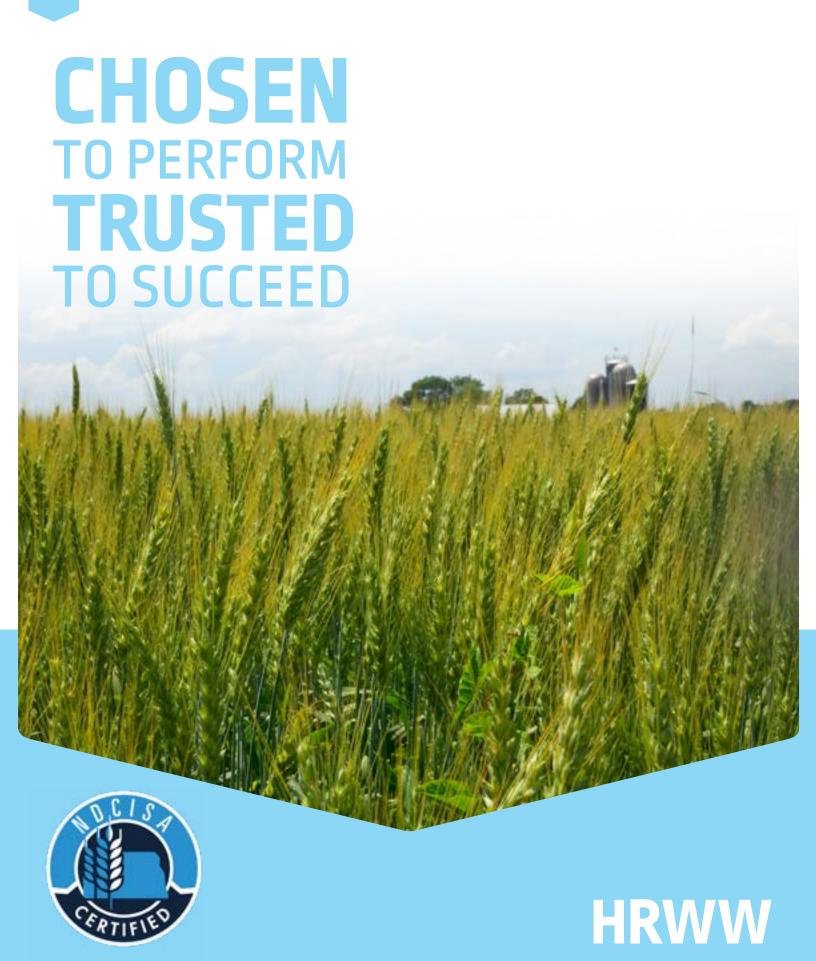
Winter Hardiness: Very Good





NDCISA is for the farmer/producer from start to finish. Our main goal is to provide and promote varieties that will give the farmer the best chance for success. NDCISA makes decisions to provide the best financial opportunity for the farmer, not the private industry or shareholders. Their success is with the farmer's success. The board consists of, the average farmer looking out for one another.

CAMERON WAHLSTROM: NDCISA SW DISTRICT DIRECTOR

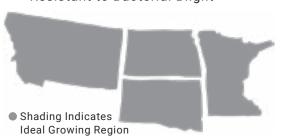


IRWW

HARD RED WINTER WHEAT

ND NOREEN

- Very High Test Weight
- High Protein
- Stem Resistance
- Excellent Winter Hardiness
- Resistant to Bacterial Blight



Yield: High Potential Straw Strength: Excellent Maturity: Medium

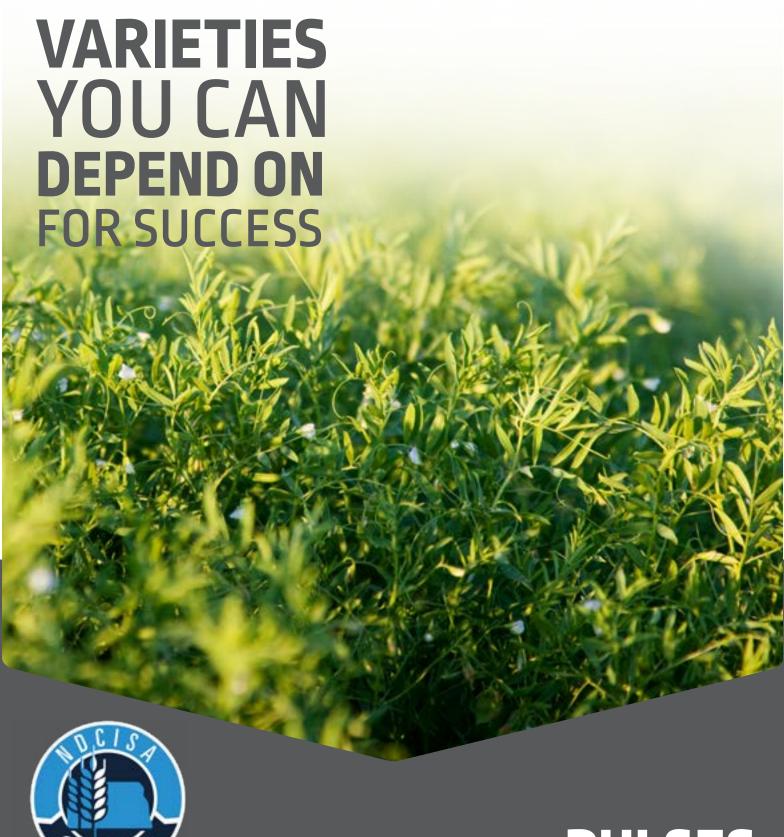
Height: Tall



NOTES



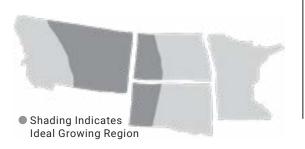




PULSES

ND EAGLE LENTIL

- Excellent Agronomic Performance
- High Seed Quality
- Excellent Standability



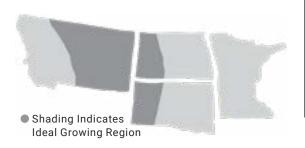
CHARACTERISTICS

Yield: High Potential
Type: Small Green
Maturity: Medium
Height: Medium



AVONDALE LENTIL

- Excellent Agronomic Performance
- High Seed Quality
- Excellent Standability



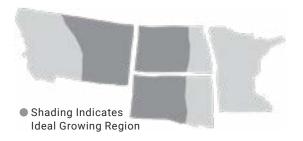
CHARACTERISTICS

Yield: High Potential
Type: Medium Green
Maturity: Medium
Height: Medium

Developed by USDA Pulse Program
Pullman WA

ND DAWN FIELD PEA

- Smooth Seed Coat
- Large Seed
- Average Protein
- · Seed Type, Yellow Cotelydon



CHARACTERISTICS

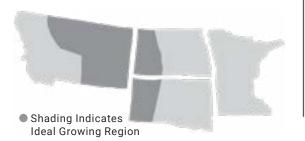
Yield: High Potential Standability: Strong Maturity: Medium Height: Medium



PULSE

HAMPTON FIELD PEA

- · Good Resistance to Lodging
- Resistant to Fusarium Wilt
- Semi Dwarf
- Semi Leafless



CHARACTERISTICS

Yield: High Potential
Seed Color: Green Cotelydon

Developed by USDA Pulse Program Pullman WA



NDCISA encourages anyone interested in the certified seed industry to become a member. NDCISA's mission is to access the latest in cutting edge genetics best suited for your farm while actively supporting public breeding programs in the region with financial support. Your membership will allow access to new varieties, various advertising items to sell your seed, quarterly newsletters and reports generated for our members.

MEMBERSHIP

For more information about the organization and how to become a member visit our website at ndcropimprovement.com.



LEARN MORE ABOUT OUR VARIETIES

CONTACT YOUR LOCAL DEALER OR SCAN THE QR CODE TO FIND A DEALER NEAR YOU Website: ndcropimprovement.com





ndcropimprovement.com

