

# 2024 SEED GUIDE

*AURORA COOPERATIVE*



# CONTENTS

Prairie Valley Hybrid Corn Seed	3
Hustle Corn and Soybean Seed Treatment	29
Acceleron® Corn Seed Treatment	31
DroughtGard® Hybrids	33
Trecepta® RIB Complete® Corn Blend	35
VT Double PRO® RIB Complete® Corn Blend	37
SmartStax PRO® Corn Blend	39
SmartStax® RIB Complete® Corn Blend	41
Brevant Hybrid Corn Seed	45
NK Hybrid Corn Seed	55
Corn Insect B.t. Trait Reference Table	62
Vayantis® Fungicide Seed Treatment	65
Prairie Valley XtendFlex® Soybean Seed	69
Prairie Valley Enlist E3® Soybean Seed	81
Enlist E3® Soybeans	93
Soybean Herbicide Recommendations	94
NK Soybean Seed	97
Acceleron® Soybean Seed Treatment	107
Ilevo® Soybean Seed Treatment	109
CruiserMaxx® APX Soybean Seed Treatment	110
Saltro® Soybean Seed Treatment	111



# HYBRID CORN SEED

**PRAIRIE  
VALLEY**

**GROW  
WITHOUT  
LIMITS**



**HYBRID HIGHLIGHTS**

- Excellent emergence for minimum tillage and early planting
- Moves south and west in PV footprint
- Responds best on clay, clay loam soils
- Performs well across all planting populations - dryland and irrigated

**HYBRID AGRONOMICS**

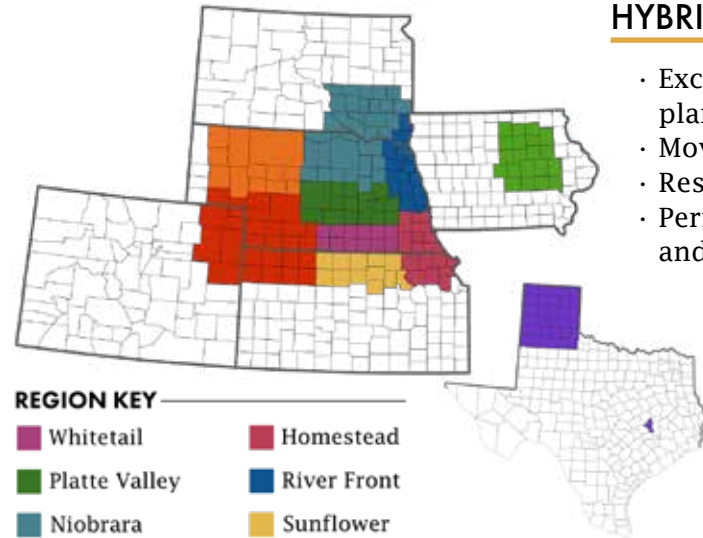
Drydown	👍👍👍👍
Root Rating	👍👍👍👍
Early Plant Vigor	👍👍👍👍
Greensnap	👍👍👍👍
Stalk Rating	👍👍👍👍
Stalk Health	👍👍👍👍
Intactness	👍👍👍👍
Staygreen	👍👍👍👍
Drought Tolerance	👍👍👍👍
pH	👍👍👍👍

**DISEASE RESISTANCE**

Goss' Wilt	👍👍👍👍
Gray Leaf Spot	👍👍👍👍
Northern Leaf Blight	👍👍👍👍
Southern Leaf Blight	👍👍👍👍
Physoderma Node Breakage	👍👍👍👍
Stalk Anthracnose	👍👍👍👍
Southern Rust	👍👍👍👍
Common Rust	👍👍👍👍
Diplodia Ear Rot	👍👍👍👍
Tar Spot Complex	👍👍👍👍

**HERBICIDE SENSITIVITY**

Growth Regulators (Group 4)	A
Sulfonylureas/ALS Inhibitors (Group 2)	C
Pigment Inhibitors/HPPD Inhibitors (Group 27)	A



**REGION KEY**

Whitetail	Homestead
Platte Valley	River Front
Niobrara	Sunflower
Cattlemen	Iowa
Chimney Rock	Texas

**PLACEMENT RECOMMENDATION**

Seed Region   
 Yield Environment **Ideal, Variable**

**HYBRID DESCRIPTION**

GDUs to Mid-pollination	1227
GDUs to Black layer	2417
Pollination for Maturity	Medium
Population Tolerance	M-MH
Ear Length Score	👍👍👍👍
Kernel Rows	14-16
Test Weight	👍👍👍👍
<b>Overall Flex Score</b>	👍👍👍👍
Ear Height	Medium
Cob Color	Red
Husk Cover	Short
Plant Height	Medium-Tall

*Rating Scale*  
5 = Excellent    3 = Good    2 = Fair  
4 = Very Good    2.5 = Average    1 = Poor

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**HYBRID HIGHLIGHTS**

- Widely adapted, dominant hybrid that works across all soils
- Excellent Goss' Wilt and very good GLS tolerance with a lower greensnap risk
- Ability to yield through disease pressure with good late season intactness
- Longer ears with excellent tip fill
- Works well in low-medium populations when needed

**HYBRID AGRONOMICS**

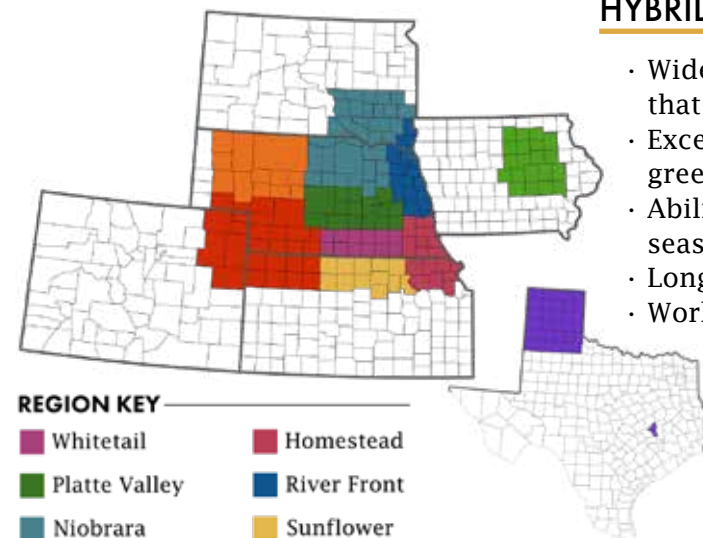
Drydown	👍👍👍👍
Root Rating	👍👍👍👍
Early Plant Vigor	👍👍👍👍
Greensnap	👍👍👍👍
Stalk Rating	👍👍👍👍
Stalk Health	👍👍👍👍
Intactness	👍👍👍👍
Staygreen	👍👍👍👍
Drought Tolerance	👍👍👍👍
pH	👍👍👍👍

**DISEASE RESISTANCE**

Goss' Wilt	👍👍👍👍
Gray Leaf Spot	👍👍👍👍
Northern Leaf Blight	👍👍👍👍
Southern Leaf Blight	👍👍👍👍
Physoderma Node Breakage	👍👍👍👍
Stalk Anthracnose	👍👍👍👍
Southern Rust	👍👍👍👍
Common Rust	👍👍👍👍
Diplodia Ear Rot	👍👍👍👍
Tar Spot Complex	👍👍👍👍

**HERBICIDE SENSITIVITY**

Growth Regulators (Group 4)	A
Sulfonylureas/ALS Inhibitors (Group 2)	A
Pigment Inhibitors/HPPD Inhibitors (Group 27)	A



**REGION KEY**

Whitetail	Homestead
Platte Valley	River Front
Niobrara	Sunflower
Cattlemen	Iowa
Chimney Rock	Texas

**PLACEMENT RECOMMENDATION**

Seed Region   
 Yield Environment **Tough, Ideal, Variable**

**HYBRID DESCRIPTION**

GDUs to Mid-pollination	1290
GDUs to Black layer	2605
Pollination for Maturity	Medium-Late
Population Tolerance	L-M
Ear Length Score	👍👍👍👍
Kernel Rows	16-18
Test Weight	👍👍👍👍
<b>Overall Flex Score</b>	👍👍👍👍
Ear Height	Medium
Cob Color	Red
Husk Cover	Adequate
Plant Height	Medium

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HYBRID HIGHLIGHTS

- Dryland and irrigated option
- Moves central, south, and west in PV footprint
- Excellent emergence and early plant vigor coupled with very good drought tolerance
- Performs well across all planting populations

HYBRID AGRONOMICS

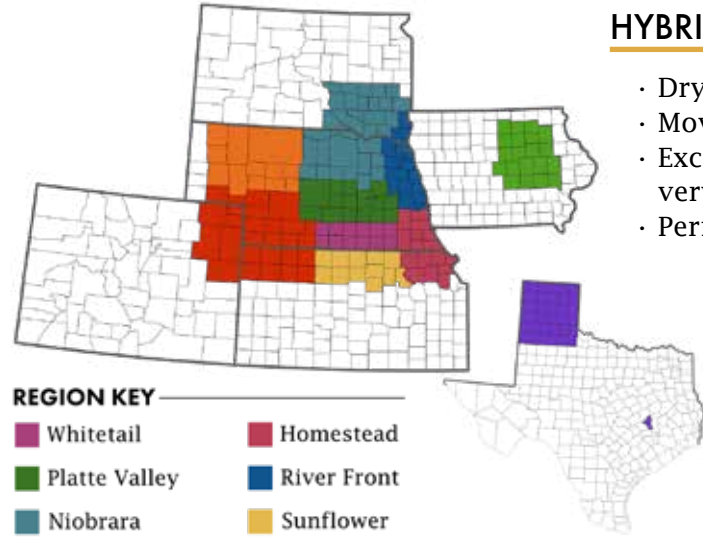
Drydown	👍👍👍👍👍
Root Rating	👍👍👍👍👍
Early Plant Vigor	👍👍👍👍👍
Greensnap	👍👍👍👍👍
Stalk Rating	👍👍👍👍👍
Stalk Health	👍👍👍👍👍
Intactness	👍👍👍👍👍
Staygreen	👍👍👍👍👍
Drought Tolerance	👍👍👍👍👍
pH	👍👍👍👍👍

DISEASE RESISTANCE

Goss' Wilt	👍👍👍👍👍
Gray Leaf Spot	👍👍👍👍👍
Northern Leaf Blight	👍👍👍👍👍
Southern Leaf Blight	👍👍👍👍👍
Physoderma Node Breakage	👍👍👍👍👍
Stalk Anthracnose	👍👍👍👍👍
Southern Rust	👍👍👍👍👍
Common Rust	👍👍👍👍👍
Diplodia Ear Rot	👍👍👍👍👍
Tar Spot Complex	👍👍👍👍👍

HERBICIDE SENSITIVITY

Growth Regulators (Group 4)	A
Sulfonylureas/ALS Inhibitors (Group 2)	A
Pigment Inhibitors/HPPD Inhibitors (Group 27)	A



REGION KEY

Whitetail	Homestead
Platte Valley	River Front
Niobrara	Sunflower
Cattlemen	Iowa
Chimney Rock	Texas

PLACEMENT RECOMMENDATION

Seed Region Tough, Ideal, Variable

HYBRID DESCRIPTION

GDUs to Mid-pollination	1336
GDUs to Black layer	2632
Pollination for Maturity	Medium-Late
Population Tolerance	L-M
Ear Length Score	👍👍👍👍👍
Kernel Rows	16-18
Test Weight	👍👍👍👍👍
<b>Overall Flex Score</b>	👍👍👍👍👍
Ear Height	Medium
Cob Color	Red
Husk Cover	Adequate
Plant Height	Medium

Rating Scale  
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HYBRID HIGHLIGHTS

- Moves central, south, and west in PV footprint
- Excellent emergence and early plant vigor coupled with very good drought tolerance
- Performs well across all planting populations

HYBRID AGRONOMICS

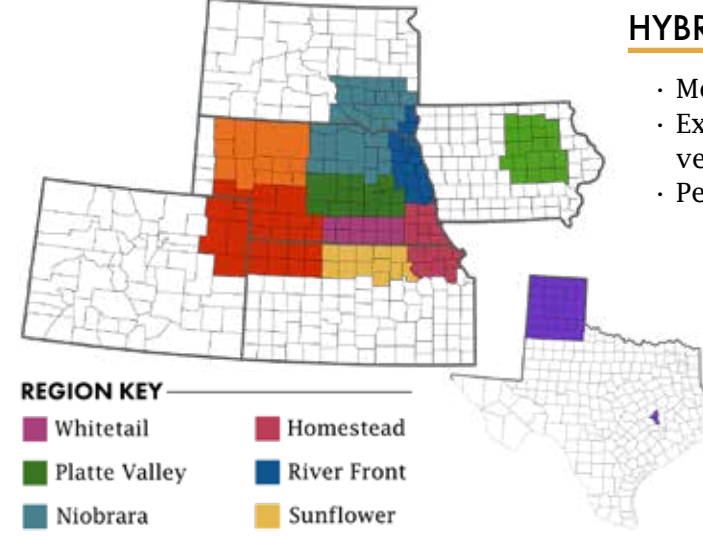
Drydown	👍👍👍👍👍
Root Rating	👍👍👍👍👍
Early Plant Vigor	👍👍👍👍👍
Greensnap	👍👍👍👍👍
Stalk Rating	👍👍👍👍👍
Stalk Health	👍👍👍👍👍
Intactness	👍👍👍👍👍
Staygreen	👍👍👍👍👍
Drought Tolerance	👍👍👍👍👍
pH	👍👍👍👍👍

DISEASE RESISTANCE

Goss' Wilt	👍👍👍👍👍
Gray Leaf Spot	👍👍👍👍👍
Northern Leaf Blight	👍👍👍👍👍
Southern Leaf Blight	👍👍👍👍👍
Physoderma Node Breakage	👍👍👍👍👍
Stalk Anthracnose	👍👍👍👍👍
Southern Rust	👍👍👍👍👍
Common Rust	👍👍👍👍👍
Diplodia Ear Rot	👍👍👍👍👍
Tar Spot Complex	👍👍👍👍👍

HERBICIDE SENSITIVITY

Growth Regulators (Group 4)	A
Sulfonylureas/ALS Inhibitors (Group 2)	A
Pigment Inhibitors/HPPD Inhibitors (Group 27)	A



REGION KEY

Whitetail	Homestead
Platte Valley	River Front
Niobrara	Sunflower
Cattlemen	Iowa
Chimney Rock	Texas

PLACEMENT RECOMMENDATION

Seed Region Tough, Ideal, Variable

HYBRID DESCRIPTION

GDUs to Mid-pollination	1336
GDUs to Black layer	2632
Pollination for Maturity	Medium-Late
Population Tolerance	L-M
Ear Length Score	👍👍👍👍👍
Kernel Rows	16-18
Test Weight	👍👍👍👍👍
<b>Overall Flex Score</b>	👍👍👍👍👍
Ear Height	Medium
Cob Color	Red
Husk Cover	Adequate
Plant Height	Medium

Rating Scale  
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LibertyLink® and the Water Droplet Design® are registered trademarks of BASF Corporation. Herculex® is a registered trademark of Dow AgroSciences LLC.





**HYBRID HIGHLIGHTS**

- Dryland and irrigated option with good ear flex
- Moves central, south, and north in PV footprint
- Responds best on Platte Valley sands, clay, silt, and loam
- Performs well across all planting populations

**HYBRID AGRONOMICS**

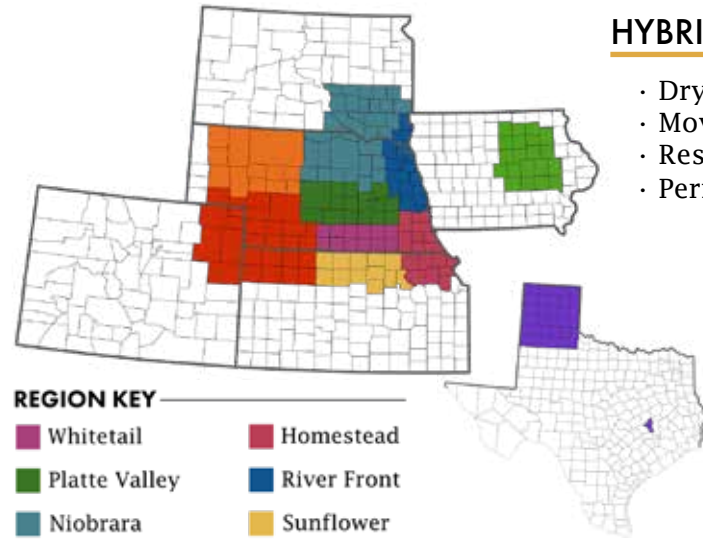
Drydown	👍👍👍👍
Root Rating	👍👍👍👍
Early Plant Vigor	👍👍👍👍
Greensnap	👍👍👍👍
Stalk Rating	👍👍👍👍
Stalk Health	👍👍👍👍
Intactness	👍👍👍👍
Staygreen	👍👍👍👍
Drought Tolerance	👍👍👍👍
pH	👍👍👍👍

**DISEASE RESISTANCE**

Goss' Wilt	👍👍👍👍
Gray Leaf Spot	👍👍👍👍
Northern Leaf Blight	👍👍👍👍
Southern Leaf Blight	👍👍👍👍
Physoderma Node Breakage	👍👍👍👍
Stalk Anthracnose	👍👍👍👍
Southern Rust	👍👍👍👍
Common Rust	👍👍👍👍
Diplodia Ear Rot	👍👍👍👍
Tar Spot Complex	👍👍👍👍

**HERBICIDE SENSITIVITY**

Growth Regulators (Group 4)	C
Sulfonylureas/ALS Inhibitors (Group 2)	A
Pigment Inhibitors/HPPD Inhibitors (Group 27)	A



**REGION KEY**

Whitetail	Homestead
Platte Valley	River Front
Niobrara	Sunflower
Cattlemen	Iowa
Chimney Rock	Texas

**PLACEMENT RECOMMENDATION**

Seed Region

Yield Environment

Ideal, Variable

**HYBRID DESCRIPTION**

GDUs to Mid-pollination	1301
GDUs to Black layer	2563
Pollination for Maturity	Medium
Population Tolerance	M
Ear Length Score	👍👍👍👍
Kernel Rows	16-18
Test Weight	👍👍👍👍
<b>Overall Flex Score</b>	👍👍👍👍
Ear Height	Low
Cob Color	Red
Husk Cover	Long
Plant Height	Short

Rating Scale  
 5 = Excellent    3 = Good    2 = Fair  
 4 = Very Good    2.5 = Average    1 = Poor

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**HYBRID HIGHLIGHTS**

- Very solid agronomic ratings overall
- Nice plant stature with very good overall flex score
- Versatile east to west adaptability

**HYBRID AGRONOMICS**

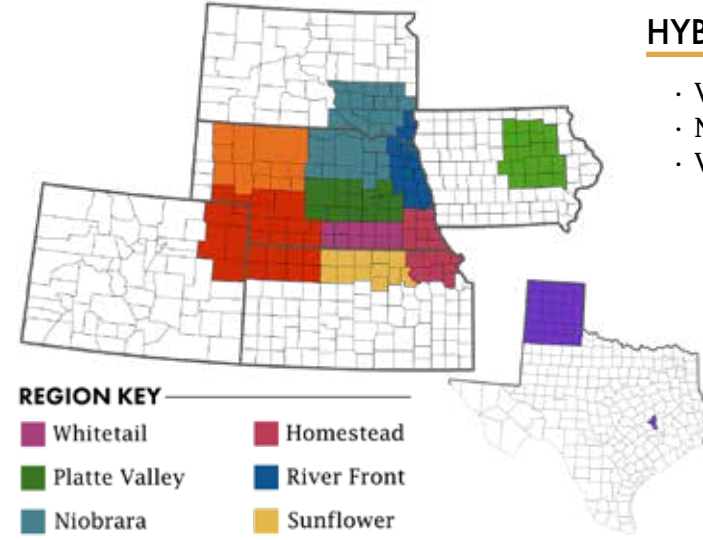
Drydown	👍👍👍👍
Root Rating	👍👍👍👍
Early Plant Vigor	👍👍👍👍
Greensnap	👍👍👍👍
Stalk Rating	👍👍👍👍
Stalk Health	👍👍👍👍
Intactness	👍👍👍👍
Staygreen	👍👍👍👍
Drought Tolerance	👍👍👍👍
pH	👍👍👍👍

**DISEASE RESISTANCE**

Goss' Wilt	👍👍👍👍
Gray Leaf Spot	👍👍👍👍
Northern Leaf Blight	👍👍👍👍
Southern Leaf Blight	👍👍👍👍
Physoderma Node Breakage	👍👍👍👍
Stalk Anthracnose	👍👍👍👍
Southern Rust	👍👍👍👍
Common Rust	👍👍👍👍
Diplodia Ear Rot	👍👍👍👍
Tar Spot Complex	👍👍👍👍

**HERBICIDE SENSITIVITY**

Growth Regulators (Group 4)	N/A
Sulfonylureas/ALS Inhibitors (Group 2)	N/A
Pigment Inhibitors/HPPD Inhibitors (Group 27)	N/A



**REGION KEY**

Whitetail	Homestead
Platte Valley	River Front
Niobrara	Sunflower
Cattlemen	Iowa
Chimney Rock	Texas

**PLACEMENT RECOMMENDATION**

Seed Region

Yield Environment

Variable, Ideal

**HYBRID DESCRIPTION**

GDUs to Mid-pollination	1281
GDUs to Black layer	2524
Pollination for Maturity	Medium
Population Tolerance	M-MH
Ear Length Score	👍👍👍👍
Kernel Rows	16-18
Test Weight	👍👍👍👍
<b>Overall Flex Score</b>	👍👍👍👍
Ear Height	Medium
Cob Color	Red
Husk Cover	Adequate
Plant Height	Medium

Rating Scale  
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**HYBRID HIGHLIGHTS**

- Widely adopted across the Prairie Valley footprint
- Strong stalk rating with a reduced greensnap risk
- Strong roots and top end yield
- Drydown makes for a very good early season hybrid

**HYBRID AGRONOMICS**

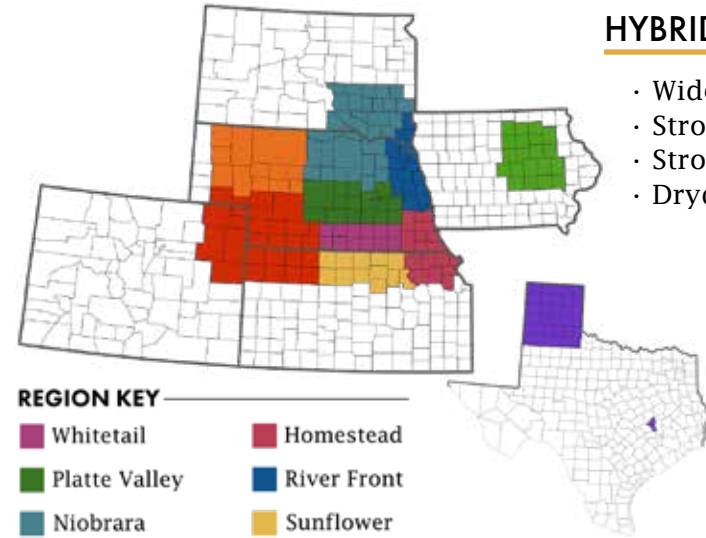
Drydown	👍👍👍👍👍
Root Rating	👍👍👍👍👍
Early Plant Vigor	👍👍👍👍👍
Greensnap	👍👍👍👍👍
Stalk Rating	👍👍👍👍👍
Stalk Health	👍👍👍👍👍
Intactness	👍👍👍👍👍
Staygreen	👍👍👍👍👍
Drought Tolerance	👍👍👍👍👍
pH	👍👍👍👍👍

**DISEASE RESISTANCE**

Goss' Wilt	👍👍👍👍👍
Gray Leaf Spot	👍👍👍👍👍
Northern Leaf Blight	👍👍👍👍👍
Southern Leaf Blight	👍👍👍👍👍
Physoderma Node Breakage	👍👍👍👍👍
Stalk Anthracnose	👍👍👍👍👍
Southern Rust	👍👍👍👍👍
Common Rust	👍👍👍👍👍
Diplodia Ear Rot	👍👍👍👍👍
Tar Spot Complex	👍👍👍👍👍

**HERBICIDE SENSITIVITY**

Growth Regulators (Group 4)	A
Sulfonylureas/ALS Inhibitors (Group 2)	A
Pigment Inhibitors/HPPD Inhibitors (Group 27)	A



**REGION KEY**

Whitetail	Homestead
Platte Valley	River Front
Niobrara	Sunflower
Cattlemen	Iowa
Chimney Rock	Texas

**PLACEMENT RECOMMENDATION**

Seed Region        
 Yield Environment Variable, Ideal

**HYBRID DESCRIPTION**

GDUs to Mid-pollination	1357
GDUs to Black layer	2673
Pollination for Maturity	Medium
Population Tolerance	M-MH
Ear Length Score	👍👍👍👍👍
Kernel Rows	14-16
Test Weight	👍👍👍👍👍
<b>Overall Flex Score</b>	👍👍👍👍👍
Ear Height	Medium
Cob Color	Red
Husk Cover	Adequate
Plant Height	Medium

*Rating Scale*  
 5 = Excellent    3 = Good    2 = Fair  
 4 = Very Good    2.5 = Average    1 = Poor

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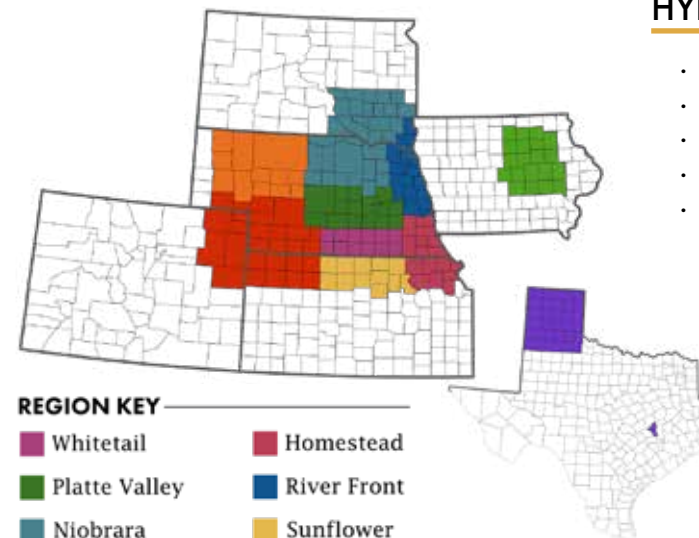


**HYBRID HIGHLIGHTS**

- Irrigated option that handles stress
- Moves east and south central in PV footprint
- Responds best in clay and clay loam soils
- Option for limited irrigation
- Works best in medium to high planting populations

**HYBRID AGRONOMICS**

Drydown	👍👍👍👍👍
Root Rating	👍👍👍👍👍
Early Plant Vigor	👍👍👍👍👍
Greensnap	👍👍👍👍👍
Stalk Rating	👍👍👍👍👍
Stalk Health	👍👍👍👍👍
Intactness	👍👍👍👍👍
Staygreen	👍👍👍👍👍
Drought Tolerance	👍👍👍👍👍
pH	N/A



**REGION KEY**

Whitetail	Homestead
Platte Valley	River Front
Niobrara	Sunflower
Cattlemen	Iowa
Chimney Rock	Texas

**PLACEMENT RECOMMENDATION**

Seed Region        
 Yield Environment Ideal, Variable

**HYBRID DESCRIPTION**

GDUs to Mid-pollination	1368
GDUs to Black layer	2695
Pollination for Maturity	Medium
Population Tolerance	M-MH
Ear Length Score	👍👍👍👍👍
Kernel Rows	14-16
Test Weight	👍👍👍👍👍
<b>Overall Flex Score</b>	👍👍👍👍👍
Ear Height	Medium
Cob Color	Red
Husk Cover	Long
Plant Height	Medium

**DISEASE RESISTANCE**

Goss' Wilt	👍👍👍👍👍
Gray Leaf Spot	👍👍👍👍👍
Northern Leaf Blight	👍👍👍👍👍
Southern Leaf Blight	👍👍👍👍👍
Physoderma Node Breakage	👍👍👍👍👍
Stalk Anthracnose	👍👍👍👍👍
Southern Rust	👍👍👍👍👍
Common Rust	N/A
Diplodia Ear Rot	N/A
Tar Spot Complex	👍👍👍👍👍

**HERBICIDE SENSITIVITY**

Growth Regulators (Group 4)	N/A
Sulfonylureas/ALS Inhibitors (Group 2)	N/A
Pigment Inhibitors/HPPD Inhibitors (Group 27)	N/A

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**HYBRID HIGHLIGHTS**

- Elite hybrid with excellent top end yield and a wide area of adaptation
- Great for high management, productive acres
- Consistent ear length under density with good tip fill
- Moves South well for maturity with low greensnap risk

**HYBRID AGRONOMICS**

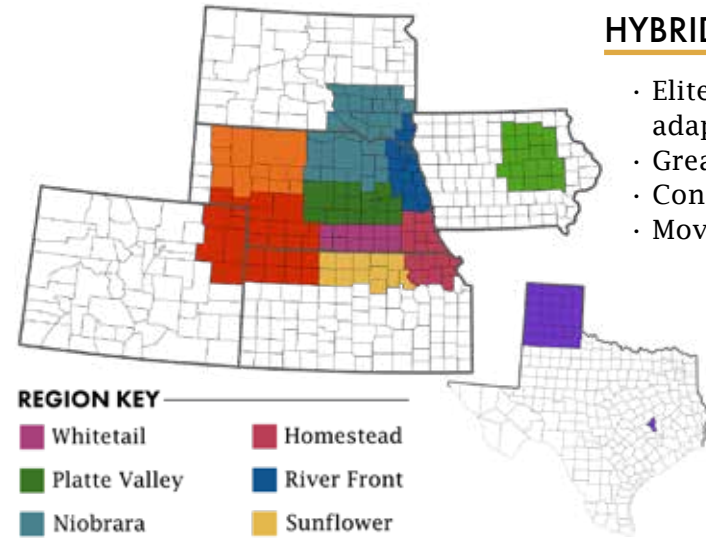
Drydown	👍👍👍👍
Root Rating	👍👍👍👍
Early Plant Vigor	👍👍👍👍
Greensnap	👍👍👍👍
Stalk Rating	👍👍👍👍
Stalk Health	👍👍👍👍
Intactness	👍👍👍👍
Staygreen	👍👍👍👍
Drought Tolerance	👍👍👍👍
pH	👍👍👍👍

**DISEASE RESISTANCE**

Goss' Wilt	👍👍👍👍
Gray Leaf Spot	👍👍👍👍
Northern Leaf Blight	👍👍👍👍
Southern Leaf Blight	👍👍👍👍
Physoderma Node Breakage	👍👍👍👍
Stalk Anthracnose	👍👍👍👍
Southern Rust	👍👍👍👍
Common Rust	👍👍👍👍
Diplodia Ear Rot	👍👍👍👍
Tar Spot Complex	👍👍👍👍

**HERBICIDE SENSITIVITY**

Growth Regulators (Group 4)	A
Sulfonylureas/ALS Inhibitors (Group 2)	A
Pigment Inhibitors/HPPD Inhibitors (Group 27)	A



**REGION KEY**

Whitetail	Homestead
Platte Valley	River Front
Niobrara	Sunflower
Cattlemen	Iowa
Chimney Rock	Texas

**PLACEMENT RECOMMENDATION**

Seed Region Variable, Ideal

**HYBRID DESCRIPTION**

GDUs to Mid-pollination	1330
GDUs to Black layer	2750
Pollination for Maturity	Medium
Population Tolerance	M-MH
Ear Length Score	👍👍👍👍
Kernel Rows	14-16
Test Weight	👍👍👍👍
<b>Overall Flex Score</b>	👍👍👍👍
Ear Height	Medium
Cob Color	Red
Husk Cover	Adequate
Plant Height	Medium-Tall

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**HYBRID HIGHLIGHTS**

- Very good greensnap and Goss' Wilt tolerance
- Mr. Versatility and a true workhorse hybrid with good stalks and roots
- Excellent anthracnose stalk rot tolerance
- Works across all yield environments, but excels in tough and variable situations

**HYBRID AGRONOMICS**

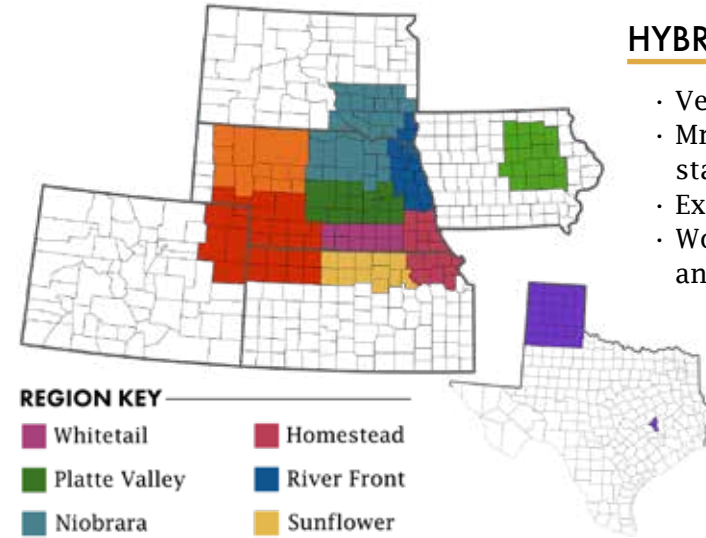
Drydown	👍👍👍👍
Root Rating	👍👍👍👍
Early Plant Vigor	👍👍👍👍
Greensnap	👍👍👍👍
Stalk Rating	👍👍👍👍
Stalk Health	👍👍👍👍
Intactness	👍👍👍👍
Staygreen	👍👍👍👍
Drought Tolerance	👍👍👍👍
pH	👍👍👍👍

**DISEASE RESISTANCE**

Goss' Wilt	👍👍👍👍
Gray Leaf Spot	👍👍👍👍
Northern Leaf Blight	👍👍👍👍
Southern Leaf Blight	👍👍👍👍
Physoderma Node Breakage	👍👍👍👍
Stalk Anthracnose	👍👍👍👍
Southern Rust	👍👍👍👍
Common Rust	👍👍👍👍
Diplodia Ear Rot	👍👍👍👍
Tar Spot Complex	👍👍👍👍

**HERBICIDE SENSITIVITY**

Growth Regulators (Group 4)	A
Sulfonylureas/ALS Inhibitors (Group 2)	A
Pigment Inhibitors/HPPD Inhibitors (Group 27)	A



**REGION KEY**

Whitetail	Homestead
Platte Valley	River Front
Niobrara	Sunflower
Cattlemen	Iowa
Chimney Rock	Texas

**PLACEMENT RECOMMENDATION**

Seed Region Ideal, Variable, Tough

**HYBRID DESCRIPTION**

GDUs to Mid-pollination	1345
GDUs to Black layer	2675
Pollination for Maturity	Medium-Early
Population Tolerance	MH
Ear Length Score	👍👍👍👍
Kernel Rows	16-18
Test Weight	👍👍👍👍
<b>Overall Flex Score</b>	👍👍👍👍
Ear Height	Medium-High
Cob Color	Red
Husk Cover	Adequate
Plant Height	Medium-Tall

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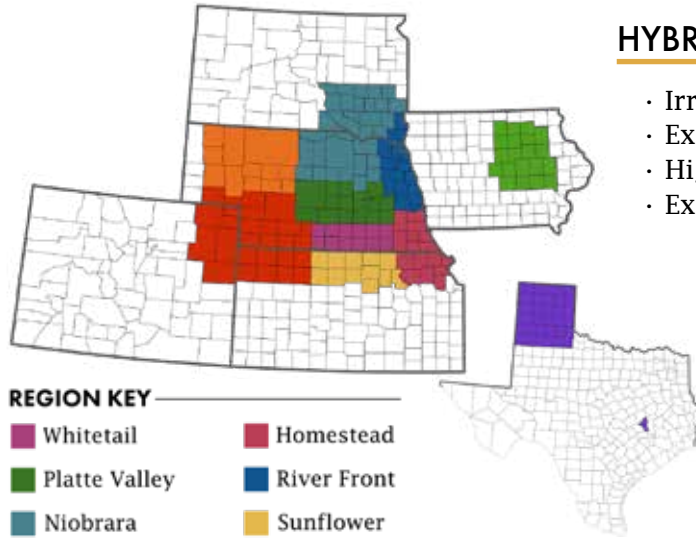
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**REGION KEY**

Whitetail	Homestead
Platte Valley	River Front
Niobrara	Sunflower
Cattlemen	Iowa
Chimney Rock	Texas

**HYBRID HIGHLIGHTS**

- Irrigated and more productive dryland
- Excellent greensnap and goss' wilt tolerance
- High yields on high management fields
- Excellent choice for variable planting populations

**HYBRID AGRONOMICS**

Drydown	👍👍👍👍
Root Rating	👍👍👍👍
Early Plant Vigor	👍👍👍👍
Greensnap	👍👍👍👍
Stalk Rating	👍👍👍👍
Stalk Health	👍👍👍👍
Intactness	👍👍👍👍
Staygreen	👍👍👍👍
Drought Tolerance	👍👍👍👍
pH	👍👍👍👍

**DISEASE RESISTANCE**

Goss' Wilt	👍👍👍👍
Gray Leaf Spot	👍👍👍👍
Northern Leaf Blight	👍👍👍👍
Southern Leaf Blight	👍👍👍👍
Physoderma Node Breakage	👍👍👍👍
Stalk Anthracnose	👍👍👍👍
Southern Rust	👍👍👍👍
Common Rust	👍👍👍👍
Diplodia Ear Rot	👍👍👍👍
Tar Spot Complex	👍👍👍👍

**HERBICIDE SENSITIVITY**

Growth Regulators (Group 4)	A
Sulfonylureas/ALS Inhibitors (Group 2)	A
Pigment Inhibitors/HPPD Inhibitors (Group 27)	A

**PLACEMENT RECOMMENDATION**

Seed Region Yield Environment Ideal, Variable

**HYBRID DESCRIPTION**

GDUs to Mid-pollination	1333
GDUs to Black layer	2626
Pollination for Maturity	Medium
Population Tolerance	MH
Ear Length Score	👍👍👍👍
Kernel Rows	16-18
Test Weight	👍👍👍👍
<b>Overall Flex Score</b>	👍👍👍👍
Ear Height	Medium
Cob Color	Red
Husk Cover	Adequate
Plant Height	Medium

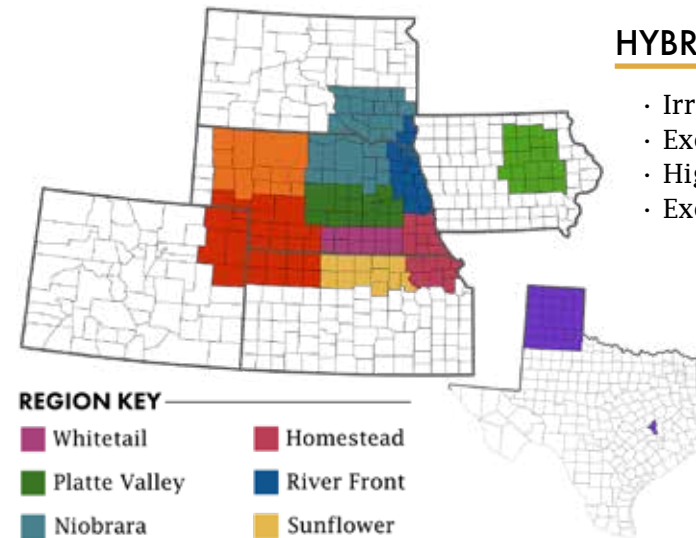
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**REGION KEY**

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**HYBRID HIGHLIGHTS**

- Irrigated and more productive dryland
- Excellent greensnap and goss' wilt tolerance
- High yields on high management fields
- Excellent choice for variable planting populations

**HYBRID AGRONOMICS**

Drydown	👍👍👍👍
Root Rating	👍👍👍👍
Early Plant Vigor	👍👍👍👍
Greensnap	👍👍👍👍
Stalk Rating	👍👍👍👍
Stalk Health	👍👍👍👍
Intactness	👍👍👍👍
Staygreen	👍👍👍👍
Drought Tolerance	👍👍👍👍
pH	👍👍👍👍

**DISEASE RESISTANCE**

Goss' Wilt	👍👍👍👍
Gray Leaf Spot	👍👍👍👍
Northern Leaf Blight	👍👍👍👍
Southern Leaf Blight	👍👍👍👍
Physoderma Node Breakage	👍👍👍👍
Stalk Anthracnose	👍👍👍👍
Southern Rust	👍👍👍👍
Common Rust	👍👍👍👍
Diplodia Ear Rot	👍👍👍👍
Tar Spot Complex	👍👍👍👍

**HERBICIDE SENSITIVITY**

Growth Regulators (Group 4)	A
Sulfonylureas/ALS Inhibitors (Group 2)	A
Pigment Inhibitors/HPPD Inhibitors (Group 27)	A

**PLACEMENT RECOMMENDATION**

Seed Region Yield Environment Ideal, Variable

**HYBRID DESCRIPTION**

GDUs to Mid-pollination	1333
GDUs to Black layer	2626
Pollination for Maturity	Medium
Population Tolerance	MH
Ear Length Score	👍👍👍👍
Kernel Rows	16-18
Test Weight	👍👍👍👍
<b>Overall Flex Score</b>	👍👍👍👍
Ear Height	Medium
Cob Color	Red
Husk Cover	Adequate
Plant Height	Medium

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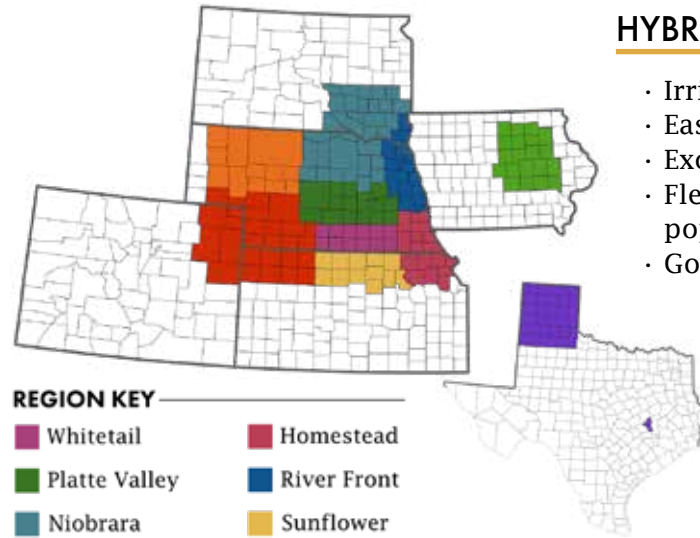
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**REGION KEY**

Whitetail	Homestead
Platte Valley	River Front
Niobrara	Sunflower
Cattlemen	Iowa
Chimney Rock	Texas

**HYBRID HIGHLIGHTS**

- Irrigated and works well in all dryland scenarios
- East, south central, and west movement in PV footprint
- Excellent tough acre choice with top end yield
- Flex score allows this hybrid to be used in lower planting populations
- Good silage option

**HYBRID AGRONOMICS**

Drydown	👍👍👍👍
Root Rating	👍👍👍👍
Early Plant Vigor	👍👍👍👍
Greensnap	👍👍👍👍
Stalk Rating	👍👍👍👍
Stalk Health	👍👍👍👍
Intactness	👍👍👍👍
Staygreen	👍👍👍👍
Drought Tolerance	👍👍👍👍
pH	👍👍👍👍

**DISEASE RESISTANCE**

Goss' Wilt	👍👍👍👍
Gray Leaf Spot	👍👍👍👍
Northern Leaf Blight	👍👍👍👍
Southern Leaf Blight	👍👍👍👍
Physoderma Node Breakage	👍👍👍👍
Stalk Anthracnose	👍👍👍👍
Southern Rust	👍👍👍👍
Common Rust	👍👍👍👍
Diplodia Ear Rot	👍👍👍👍
Tar Spot Complex	👍👍👍👍

**HERBICIDE SENSITIVITY**

Growth Regulators (Group 4)	A
Sulfonylureas/ALS Inhibitors (Group 2)	A
Pigment Inhibitors/HPPD Inhibitors (Group 27)	A

**PLACEMENT RECOMMENDATION**

Seed Region Tough, Ideal, Variable

**HYBRID DESCRIPTION**

GDUs to Mid-pollination	1320
GDUs to Black layer	2790
Pollination for Maturity	Medium
Population Tolerance	M
Ear Length Score	👍👍👍👍
Kernel Rows	16
Test Weight	👍👍👍👍
<b>Overall Flex Score</b>	👍👍👍👍
Ear Height	Medium
Cob Color	Red
Husk Cover	Adequate
Plant Height	Medium-Tall

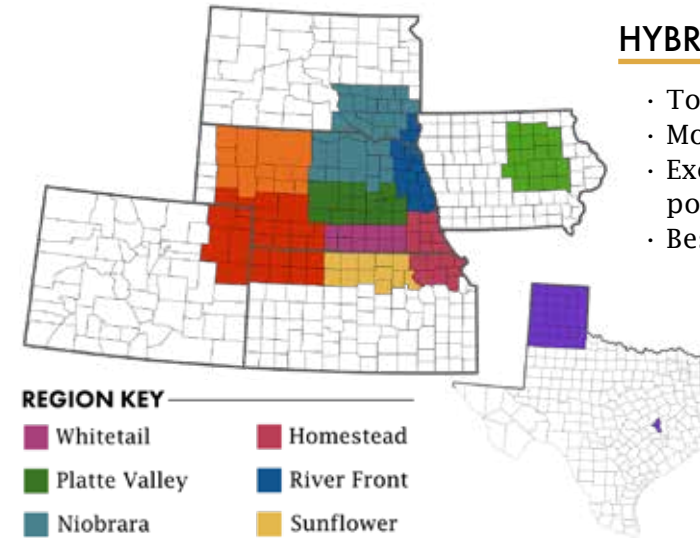
*Rating Scale*  
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 4 = Very Good    2.5 = Average    1 = Poor

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**REGION KEY**

Whitetail	Homestead
Platte Valley	River Front
Niobrara	Sunflower
Cattlemen	Iowa
Chimney Rock	Texas

**HYBRID HIGHLIGHTS**

- Top end yield choice with medium to high populations
- Moves east, south, west, and north in PV footprint
- Excellent Goss' Wilt tolerance and low greensnap potential
- Best performance will be on highly productive acres

**HYBRID AGRONOMICS**

Drydown	👍👍👍👍
Root Rating	👍👍👍👍
Early Plant Vigor	👍👍👍👍
Greensnap	👍👍👍👍
Stalk Rating	👍👍👍👍
Stalk Health	👍👍👍👍
Intactness	👍👍👍👍
Staygreen	👍👍👍👍
Drought Tolerance	👍👍👍👍
pH	👍👍👍👍

**PLACEMENT RECOMMENDATION**

Seed Region Ideal, Variable

**HYBRID DESCRIPTION**

GDUs to Mid-pollination	1389
GDUs to Black layer	2736
Pollination for Maturity	Medium
Population Tolerance	MH-H
Ear Length Score	👍👍👍👍
Kernel Rows	16-18
Test Weight	👍👍👍👍
<b>Overall Flex Score</b>	👍👍👍👍
Ear Height	Medium-High
Cob Color	Red
Husk Cover	Adequate
Plant Height	Medium

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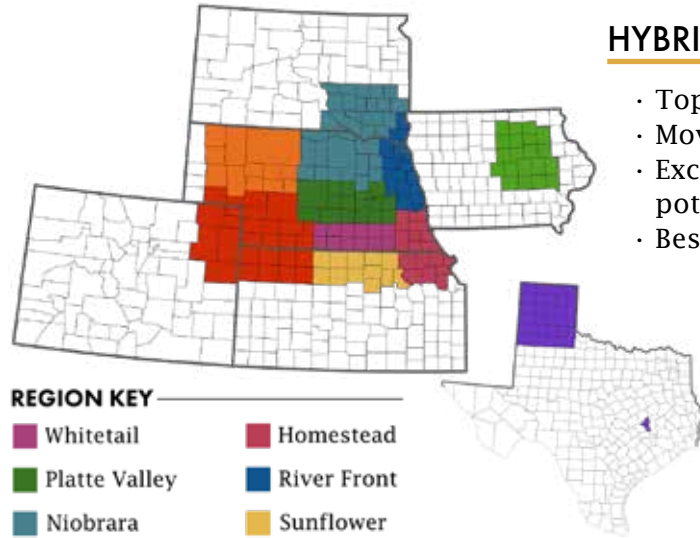
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**REGION KEY**

<span style="color: purple;">■</span> Whitetail	<span style="color: red;">■</span> Homestead
<span style="color: green;">■</span> Platte Valley	<span style="color: blue;">■</span> River Front
<span style="color: teal;">■</span> Niobrara	<span style="color: orange;">■</span> Sunflower
<span style="color: red;">■</span> Cattlemen	<span style="color: green;">■</span> Iowa
<span style="color: orange;">■</span> Chimney Rock	<span style="color: purple;">■</span> Texas

**HYBRID HIGHLIGHTS**

- Top end yield choice with medium to high populations
- Moves east, south, west, and north in PV footprint
- Excellent Goss' Wilt tolerance and low greensnap potential
- Best performance will be on highly productive acres

**HYBRID AGRONOMICS**

Drydown	👍👍👍👍
Root Rating	👍👍👍👍
Early Plant Vigor	👍👍👍👍
Greensnap	👍👍👍👍
Stalk Rating	👍👍👍👍
Stalk Health	👍👍👍👍
Intactness	👍👍👍👍
Staygreen	👍👍👍👍
Drought Tolerance	👍👍👍👍
pH	👍👍👍👍

**DISEASE RESISTANCE**

Goss' Wilt	👍👍👍👍
Gray Leaf Spot	👍👍👍👍
Northern Leaf Blight	👍👍👍👍
Southern Leaf Blight	👍👍👍👍
Physoderma Node Breakage	👍👍👍👍
Stalk Anthracnose	👍👍👍👍
Southern Rust	👍👍👍👍
Common Rust	👍👍👍👍
Diplodia Ear Rot	👍👍👍👍
Tar Spot Complex	👍👍👍👍

**HERBICIDE SENSITIVITY**

Growth Regulators (Group 4)	A
Sulfonylureas/ALS Inhibitors (Group 2)	A
Pigment Inhibitors/HPPD Inhibitors (Group 27)	A

**PLACEMENT RECOMMENDATION**

Seed Region ■ ■ ■ ■ ■ ■ ■  
 Yield Environment Ideal, Variable

**HYBRID DESCRIPTION**

GDUs to Mid-pollination	1389
GDUs to Black layer	2736
Pollination for Maturity	Medium
Population Tolerance	MH-H
Ear Length Score	👍👍👍👍
Kernel Rows	16-18
Test Weight	👍👍👍👍
<b>Overall Flex Score</b>	👍👍👍👍
Ear Height	Medium-High
Cob Color	Red
Husk Cover	Adequate
Plant Height	Medium

*Rating Scale*  
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 4 = Very Good    2.5 = Average    1 = Poor

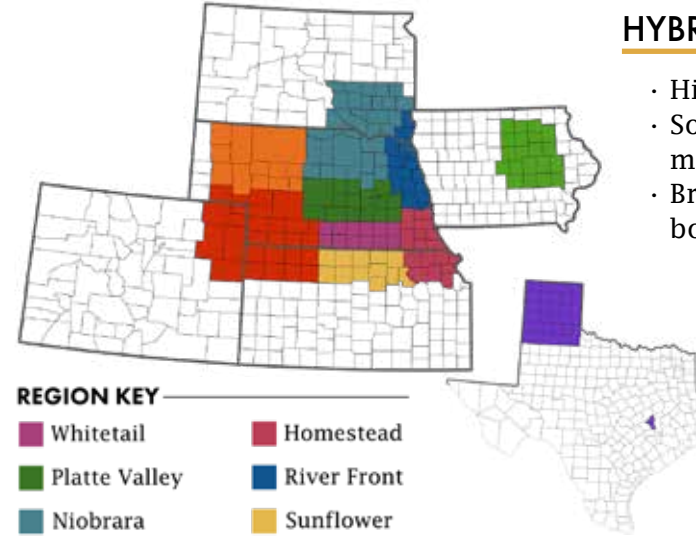
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**REGION KEY**

<span style="color: purple;">■</span> Whitetail	<span style="color: red;">■</span> Homestead
<span style="color: green;">■</span> Platte Valley	<span style="color: blue;">■</span> River Front
<span style="color: teal;">■</span> Niobrara	<span style="color: orange;">■</span> Sunflower
<span style="color: red;">■</span> Cattlemen	<span style="color: green;">■</span> Iowa
<span style="color: orange;">■</span> Chimney Rock	<span style="color: purple;">■</span> Texas

**HYBRID HIGHLIGHTS**

- High yielding with medium plant population
- Southern rust tolerance allows for good southern movement
- Broad adaptability and ear flex allows this hybrid to go both dryland and irrigated

**HYBRID AGRONOMICS**

Drydown	👍👍👍👍
Root Rating	👍👍👍👍
Early Plant Vigor	👍👍👍👍
Greensnap	👍👍👍👍
Stalk Rating	👍👍👍👍
Stalk Health	👍👍👍👍
Intactness	👍👍👍👍
Staygreen	👍👍👍👍
Drought Tolerance	👍👍👍👍
pH	👍👍👍👍

**PLACEMENT RECOMMENDATION**

Seed Region ■ ■ ■ ■ ■ ■  
 Yield Environment Tough, Variable, Ideal

**HYBRID DESCRIPTION**

GDUs to Mid-pollination	1382
GDUs to Black layer	2722
Pollination for Maturity	Medium
Population Tolerance	M
Ear Length Score	👍👍👍👍
Kernel Rows	14-16
Test Weight	👍👍👍👍
<b>Overall Flex Score</b>	👍👍👍👍
Ear Height	Medium
Cob Color	Red
Husk Cover	Long
Plant Height	Medium-Tall

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**HYBRID HIGHLIGHTS**

- Most versatile product in PV line-up with top end yield
- Covers all of PV footprint
- Solid performance across all cropping practices
- Best in class emergence with large leaf type for early canopy

**HYBRID AGRONOMICS**

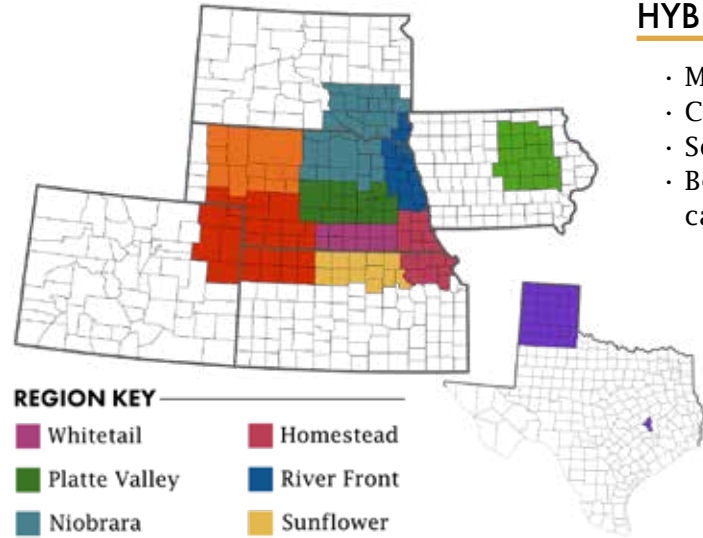
Drydown	👍👍👍👍👍
Root Rating	👍👍👍👍👍
Early Plant Vigor	👍👍👍👍👍
Greensnap	👍👍👍👍👍
Stalk Rating	👍👍👍👍👍
Stalk Health	👍👍👍👍👍
Intactness	👍👍👍👍👍
Staygreen	👍👍👍👍👍
Drought Tolerance	👍👍👍👍👍
pH	👍👍👍👍👍

**DISEASE RESISTANCE**

Goss' Wilt	👍👍👍👍👍
Gray Leaf Spot	👍👍👍👍👍
Northern Leaf Blight	👍👍👍👍👍
Southern Leaf Blight	👍👍👍👍👍
Physoderma Node Breakage	👍👍👍👍👍
Stalk Anthracnose	👍👍👍👍👍
Southern Rust	👍👍👍👍👍
Common Rust	👍👍👍👍👍
Diplodia Ear Rot	👍👍👍👍👍
Tar Spot Complex	👍👍👍👍👍

**HERBICIDE SENSITIVITY**

Growth Regulators (Group 4)	A
Sulfonylureas/ALS Inhibitors (Group 2)	A
Pigment Inhibitors/HPPD Inhibitors (Group 27)	A



**REGION KEY**

Whitetail	Homestead
Platte Valley	River Front
Niobrara	Sunflower
Cattlemen	Iowa
Chimney Rock	Texas

**PLACEMENT RECOMMENDATION**

Seed Region   
 Yield Environment Ideal, Variable

**HYBRID DESCRIPTION**

GDUs to Mid-pollination	1364
GDUs to Black layer	2714
Pollination for Maturity	Medium
Population Tolerance	M-MH
Ear Length Score	👍👍👍👍👍
Kernel Rows	16-18
Test Weight	👍👍👍👍👍
<b>Overall Flex Score</b>	👍👍👍👍👍
Ear Height	Medium
Cob Color	Red
Husk Cover	Adequate
Plant Height	Medium

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**HYBRID HIGHLIGHTS**

- Strong yield performance and responds favorably to fungicide
- Medium statured product with very good stalks and roots to aid in late season standability

**HYBRID AGRONOMICS**

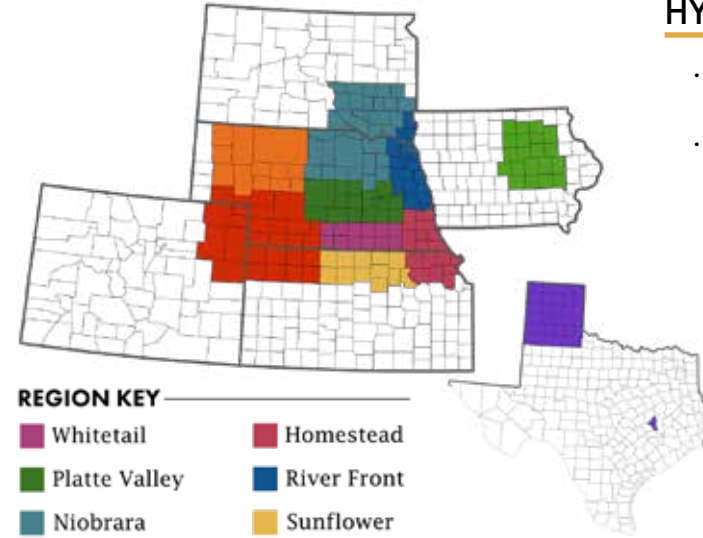
Drydown	👍👍👍👍👍
Root Rating	👍👍👍👍👍
Early Plant Vigor	👍👍👍👍👍
Greensnap	👍👍👍👍👍
Stalk Rating	👍👍👍👍👍
Stalk Health	👍👍👍👍👍
Intactness	👍👍👍👍👍
Staygreen	👍👍👍👍👍
Drought Tolerance	👍👍👍👍👍
pH	👍👍👍👍👍

**DISEASE RESISTANCE**

Goss' Wilt	👍👍👍👍👍
Gray Leaf Spot	👍👍👍👍👍
Northern Leaf Blight	👍👍👍👍👍
Southern Leaf Blight	👍👍👍👍👍
Physoderma Node Breakage	👍👍👍👍👍
Stalk Anthracnose	👍👍👍👍👍
Southern Rust	👍👍👍👍👍
Common Rust	👍👍👍👍👍
Diplodia Ear Rot	👍👍👍👍👍
Tar Spot Complex	👍👍👍👍👍

**HERBICIDE SENSITIVITY**

Growth Regulators (Group 4)	A
Sulfonylureas/ALS Inhibitors (Group 2)	A
Pigment Inhibitors/HPPD Inhibitors (Group 27)	A



**REGION KEY**

Whitetail	Homestead
Platte Valley	River Front
Niobrara	Sunflower
Cattlemen	Iowa
Chimney Rock	Texas

**PLACEMENT RECOMMENDATION**

Seed Region   
 Yield Environment Variable, Ideal

**HYBRID DESCRIPTION**

GDUs to Mid-pollination	1311
GDUs to Black layer	2609
Pollination for Maturity	Medium
Population Tolerance	M-MH
Ear Length Score	👍👍👍👍👍
Kernel Rows	18-20
Test Weight	👍👍👍👍👍
<b>Overall Flex Score</b>	👍👍👍👍👍
Ear Height	Medium
Cob Color	Red
Husk Cover	Long
Plant Height	Medium

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**HYBRID HIGHLIGHTS**

- Stable performance under heat and drought stress
- Hybrid can handle diverse soil types
- Mr. Flexibility can be used in low to high population situations.

**HYBRID AGRONOMICS**

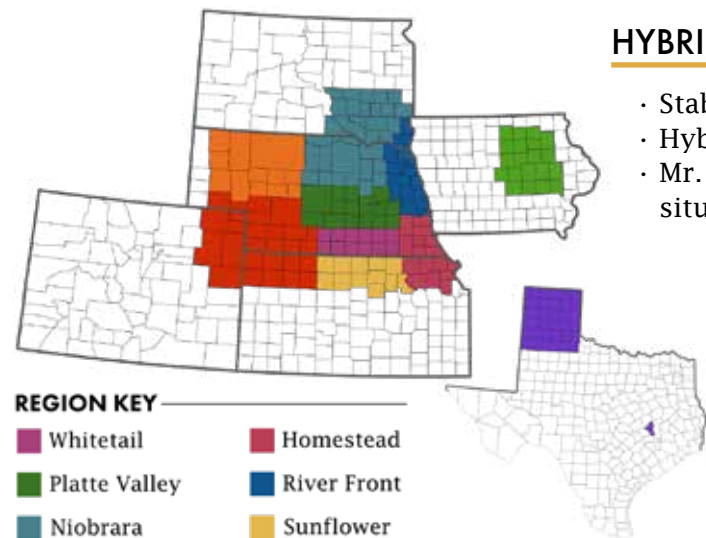
Drydown	👍👍👍👍👍
Root Rating	👍👍👍👍👍
Early Plant Vigor	👍👍👍👍👍
Greensnap	👍👍👍👍👍
Stalk Rating	👍👍👍👍👍
Stalk Health	👍👍👍👍👍
Intactness	👍👍👍👍👍
Staygreen	👍👍👍👍👍
Drought Tolerance	👍👍👍👍👍
pH	👍👍👍👍👍

**DISEASE RESISTANCE**

Goss' Wilt	👍👍👍👍👍
Gray Leaf Spot	👍👍👍👍👍
Northern Leaf Blight	👍👍👍👍👍
Southern Leaf Blight	👍👍👍👍👍
Physoderma Node Breakage	👍👍👍👍👍
Stalk Anthracnose	👍👍👍👍👍
Southern Rust	👍👍👍👍👍
Common Rust	👍👍👍👍👍
Diplodia Ear Rot	👍👍👍👍👍
Tar Spot Complex	👍👍👍👍👍

**HERBICIDE SENSITIVITY**

Growth Regulators (Group 4)	A
Sulfonylureas/ALS Inhibitors (Group 2)	A
Pigment Inhibitors/HPPD Inhibitors (Group 27)	A



**REGION KEY**

Whitetail	Homestead
Platte Valley	River Front
Niobrara	Sunflower
Cattlemen	Iowa
Chimney Rock	Texas

**PLACEMENT RECOMMENDATION**

Seed Region	👍👍👍👍👍
Yield Environment	Ideal, Variable

**HYBRID DESCRIPTION**

GDUs to Mid-pollination	1310
GDUs to Black layer	2610
Pollination for Maturity	Medium-Late
Population Tolerance	MH-H
Ear Length Score	👍👍👍👍👍
Kernel Rows	18-20
Test Weight	👍👍👍👍👍
<b>Overall Flex Score</b>	👍👍👍👍👍
Ear Height	Medium
Cob Color	Red
Husk Cover	Adequate
Plant Height	Tall

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**HYBRID HIGHLIGHTS**

- Works well in irrigated and more productive dryland
- Excellent stalks and roots for late season standability & intactness
- Responds well on clay, clay loam, silt, and sand
- Performs best in medium to higher planting population environments
- Great yield on productive soil types
- Good silage option

**HYBRID AGRONOMICS**

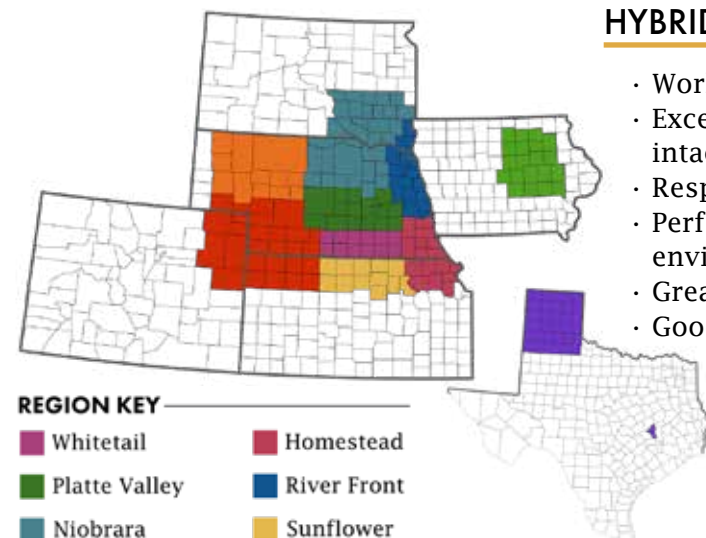
Drydown	👍👍👍👍👍
Root Rating	👍👍👍👍👍
Early Plant Vigor	👍👍👍👍👍
Greensnap	👍👍👍👍👍
Stalk Rating	👍👍👍👍👍
Stalk Health	👍👍👍👍👍
Intactness	👍👍👍👍👍
Staygreen	👍👍👍👍👍
Drought Tolerance	👍👍👍👍👍
pH	👍👍👍👍👍

**DISEASE RESISTANCE**

Goss' Wilt	👍👍👍👍👍
Gray Leaf Spot	👍👍👍👍👍
Northern Leaf Blight	👍👍👍👍👍
Southern Leaf Blight	👍👍👍👍👍
Physoderma Node Breakage	👍👍👍👍👍
Stalk Anthracnose	👍👍👍👍👍
Southern Rust	👍👍👍👍👍
Common Rust	👍👍👍👍👍
Diplodia Ear Rot	👍👍👍👍👍
Tar Spot Complex	👍👍👍👍👍

**HERBICIDE SENSITIVITY**

Growth Regulators (Group 4)	A
Sulfonylureas/ALS Inhibitors (Group 2)	A
Pigment Inhibitors/HPPD Inhibitors (Group 27)	A



**REGION KEY**

Whitetail	Homestead
Platte Valley	River Front
Niobrara	Sunflower
Cattlemen	Iowa
Chimney Rock	Texas

**PLACEMENT RECOMMENDATION**

Seed Region	👍👍👍👍👍
Yield Environment	Ideal

**HYBRID DESCRIPTION**

GDUs to Mid-pollination	1336
GDUs to Black layer	2659
Pollination for Maturity	Medium
Population Tolerance	MH
Ear Length Score	👍👍👍👍👍
Kernel Rows	16-18
Test Weight	👍👍👍👍👍
<b>Overall Flex Score</b>	👍👍👍👍👍
Ear Height	Medium
Cob Color	Red
Husk Cover	Adequate
Plant Height	Medium-Tall

*Rating Scale*  
 5 = Excellent    3 = Good    2 = Fair  
 4 = Very Good    2.5 = Average    1 = Poor

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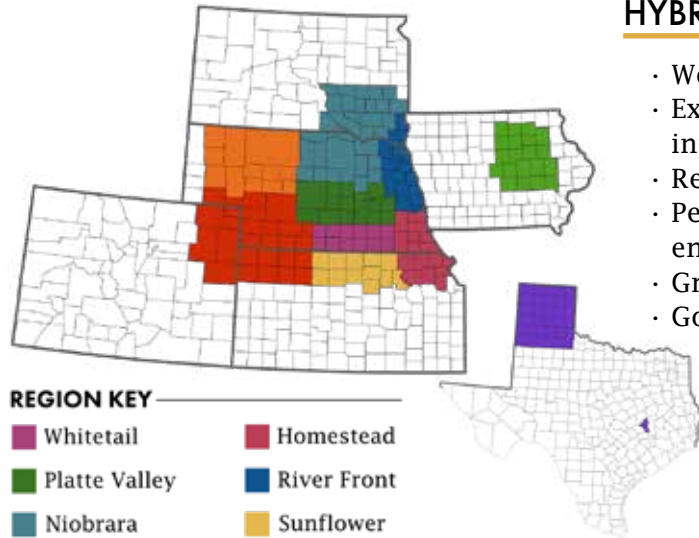
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HYBRID HIGHLIGHTS

- Works well in irrigated and more productive dryland
- Excellent stalks and roots for late season standability & intactness
- Responds well on clay, clay loam, silt, and sand
- Performs best in medium to higher planting population environments
- Great yield on productive soil types
- Good silage option



**REGION KEY**

Whitetail	Homestead
Platte Valley	River Front
Niobrara	Sunflower
Cattlemen	Iowa
Chimney Rock	Texas

PLACEMENT RECOMMENDATION

Seed Region Yield Environment Ideal

HYBRID DESCRIPTION

GDUs to Mid-pollination	1361
GDUs to Black layer	2708
Pollination for Maturity	Medium
Population Tolerance	MH
Ear Length Score	
Kernel Rows	16-18
Test Weight	
<b>Overall Flex Score</b>	
Ear Height	Medium
Cob Color	Red
Husk Cover	Adequate
Plant Height	Medium-Tall

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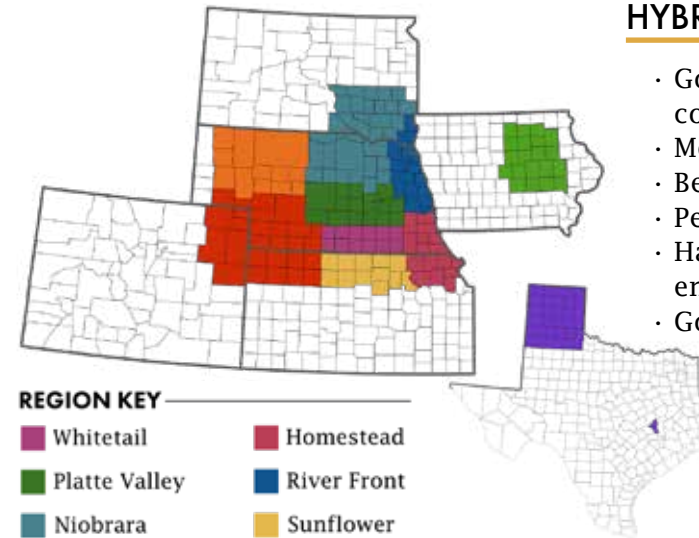
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HYBRID HIGHLIGHTS

- Good irrigated and dryland choice allows for planting convenience
- Moves south, west, and central in PV footprint
- Best in line-up on high pH
- Performs well across all planting populations
- Has good top end yield across a wide range of environments
- Good silage option



**REGION KEY**

Whitetail	Homestead
Platte Valley	River Front
Niobrara	Sunflower
Cattlemen	Iowa
Chimney Rock	Texas

PLACEMENT RECOMMENDATION

Seed Region Yield Environment Ideal, Variable

HYBRID DESCRIPTION

GDUs to Mid-pollination	1357
GDUs to Black layer	2692
Pollination for Maturity	Medium
Population Tolerance	M-MH
Ear Length Score	
Kernel Rows	16-18
Test Weight	
<b>Overall Flex Score</b>	
Ear Height	Medium-High
Cob Color	Red
Husk Cover	Adequate
Plant Height	Medium-Tall

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**HYBRID HIGHLIGHTS**

- Very good stalks and test weight with good roots
- Very good greensnap with excellent early vigor
- Fungicide recommended to manage Southern Rust
- Works across multiple yield environments
- Will reward growers with increased populations in high management situations

**HYBRID AGRONOMICS**

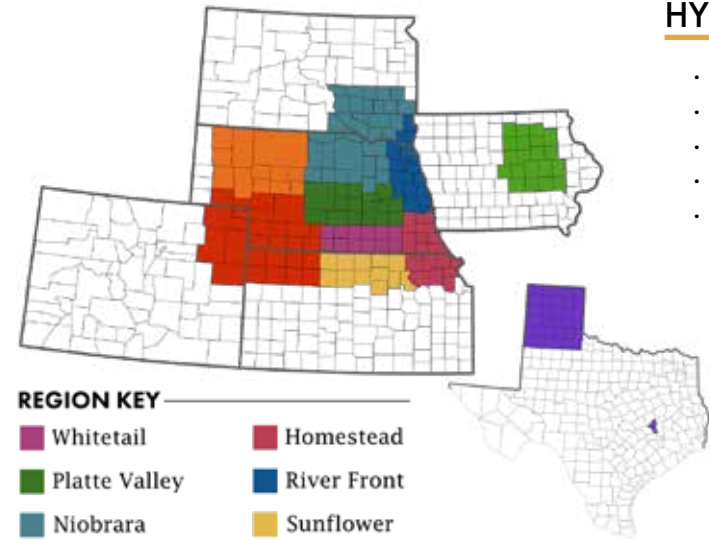
Drydown	👍👍👍👍👍
Root Rating	👍👍👍👍👍
Early Plant Vigor	👍👍👍👍👍
Greensnap	👍👍👍👍👍
Stalk Rating	👍👍👍👍👍
Stalk Health	👍👍👍👍👍
Intactness	👍👍👍👍👍
Staygreen	👍👍👍👍👍
Drought Tolerance	👍👍👍👍👍
pH	👍👍👍👍👍

**DISEASE RESISTANCE**

Goss' Wilt	👍👍👍👍👍
Gray Leaf Spot	👍👍👍👍👍
Northern Leaf Blight	👍👍👍👍👍
Southern Leaf Blight	👍👍👍👍👍
Physoderma Node Breakage	👍👍👍👍👍
Stalk Anthracnose	👍👍👍👍👍
Southern Rust	👍👍👍👍👍
Common Rust	👍👍👍👍👍
Diplodia Ear Rot	👍👍👍👍👍
Tar Spot Complex	👍👍👍👍👍

**HERBICIDE SENSITIVITY**

Growth Regulators (Group 4)	A
Sulfonylureas/ALS Inhibitors (Group 2)	A
Pigment Inhibitors/HPPD Inhibitors (Group 27)	A



**REGION KEY**

Whitetail	Homestead
Platte Valley	River Front
Niobrara	Sunflower
Cattlemen	Iowa
Chimney Rock	Texas

**PLACEMENT RECOMMENDATION**

Seed Region Variable, Ideal, Tough

**HYBRID DESCRIPTION**

GDUs to Mid-pollination	1379
GDUs to Black layer	2744
Pollination for Maturity	Medium-Late
Population Tolerance	M-MH
Ear Length Score	👍👍👍👍👍
Kernel Rows	16-18
Test Weight	👍👍👍👍👍
<b>Overall Flex Score</b>	👍👍👍👍👍
Ear Height	Medium
Cob Color	Red
Husk Cover	Long
Plant Height	Medium-Tall

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**HYBRID HIGHLIGHTS**

- Very versatile hybrid that works on both dryland and irrigated
- Can go almost anywhere hybrid
- Works best in low to medium planting populations but can stand a higher population with proper placement
- Excellent emergence and vigor for early planting and minimal tillage
- Good silage option

**HYBRID AGRONOMICS**

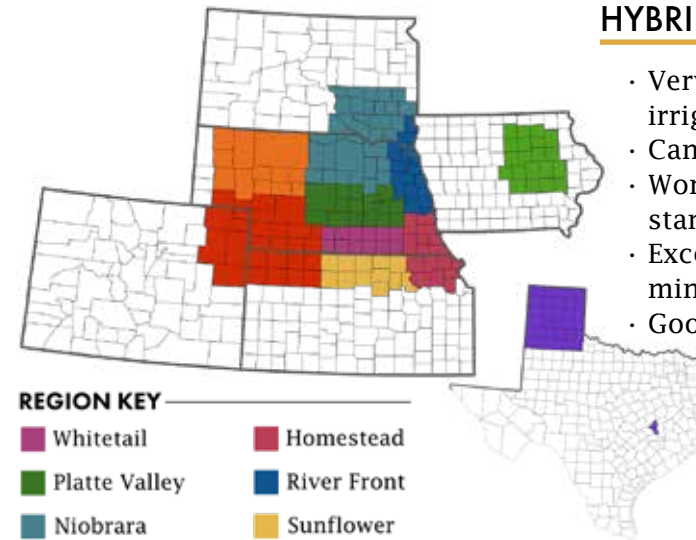
Drydown	👍👍👍👍👍
Root Rating	👍👍👍👍👍
Early Plant Vigor	👍👍👍👍👍
Greensnap	👍👍👍👍👍
Stalk Rating	👍👍👍👍👍
Stalk Health	👍👍👍👍👍
Intactness	👍👍👍👍👍
Staygreen	👍👍👍👍👍
Drought Tolerance	👍👍👍👍👍
pH	👍👍👍👍👍

**DISEASE RESISTANCE**

Goss' Wilt	👍👍👍👍👍
Gray Leaf Spot	👍👍👍👍👍
Northern Leaf Blight	👍👍👍👍👍
Southern Leaf Blight	👍👍👍👍👍
Physoderma Node Breakage	👍👍👍👍👍
Stalk Anthracnose	👍👍👍👍👍
Southern Rust	👍👍👍👍👍
Common Rust	👍👍👍👍👍
Diplodia Ear Rot	👍👍👍👍👍
Tar Spot Complex	👍👍👍👍👍

**HERBICIDE SENSITIVITY**

Growth Regulators (Group 4)	A
Sulfonylureas/ALS Inhibitors (Group 2)	A
Pigment Inhibitors/HPPD Inhibitors (Group 27)	C



**REGION KEY**

Whitetail	Homestead
Platte Valley	River Front
Niobrara	Sunflower
Cattlemen	Iowa
Chimney Rock	Texas

**PLACEMENT RECOMMENDATION**

Seed Region Tough, Ideal, Variable

**HYBRID DESCRIPTION**

GDUs to Mid-pollination	1360
GDUs to Black layer	2860
Pollination for Maturity	Medium
Population Tolerance	M
Ear Length Score	👍👍👍👍👍
Kernel Rows	16-18
Test Weight	👍👍👍👍👍
<b>Overall Flex Score</b>	👍👍👍👍👍
Ear Height	Medium-High
Cob Color	Red
Husk Cover	Adequate
Plant Height	Medium

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 <b>Hybrid</b>	GDU's to Mid-pollination	GDU's to Black Layer	Pollination for Maturity	Ear Length Score	Kernel Rows	Test Weight	Overall Flex Score	Ear Height	Cob Color	Husk Cover	Plant Height
	PV101-N89 VT2PRIB	1227	2417	Medium	4	14-16	3	3	Medium	Red	Short
PV103-Y24 DGVT2PRIB	1290	2605	Med. Late	5	16-18	2.5	4	Medium	Red	Adequate	Medium
PV105-A21 VT2PRIB	1336	2632	Med. Late	4	16-18	3	4	Medium	Red	Adequate	Medium
PV105-A21 SSRIB	1336	2632	Med. Late	4	16-18	3	4	Medium	Red	Adequate	Medium
PV106-K51 Trecepta	1301	2563	Medium	4	16-18	3	4	Low	Red	Long	Short
PV107-T43 SSRIB	1281	2524	Medium	3	16-18	4	4	Medium	Red	Adequate	Medium
PV107-W53 VT2PRIB	1357	2673	Medium	4	14-16	3	3.5	Medium	Red	Adequate	Medium
PV108-D61 VT2PRIB	1368	2695	Medium	3	14-16	4	3	Medium	Red	Long	Medium
PV109-C34 VT2PRIB NEW	1330	2750	Medium	4	14-16	4	4	Medium	Red	Adequate	Med. Tall
PV110-E54 VT2PRIB NEW	1345	2675	Med. Early	3	16-18	4	4	Med. High	Red	Adequate	Med. Tall
PV110-H20 VT2PRIB	1333	2626	Medium	3	16-18	3	3.5	Medium	Red	Adequate	Medium
PV110-H20 SSRIB	1333	2626	Medium	3	16-18	3	3.5	Medium	Red	Adequate	Medium
PV111-J21 VT2PRIB	1320	2790	Medium	5	16	4	4.5	Medium	Red	Adequate	Med. Tall
PV111-L11 Trecepta	1389	2736	Medium	3	16-18	3	3.5	Med. High	Red	Adequate	Medium
PV111-L11 SSRIB	1389	2736	Medium	3	16-18	3	3.5	Med. High	Red	Adequate	Medium
PV112-X63 VT2PRIB	1382	2722	Medium	4	14-16	5	4	Medium	Red	Long	Med. Tall
PV113-V89 VT2PRIB	1364	2714	Medium	4	16-18	5	4.5	Medium	Red	Adequate	Medium
PV113-Z83 SSRIB	1311	2609	Medium	4	18-20	3	4	Medium	Red	Long	Medium
PV114-D44 Trecepta NEW	1310	2610	Med. Late	4	18-20	3	4.5	Medium	Red	Adequate	Med. Tall
PV114-R50 VT2PRIB	1336	2659	Medium	4	16-18	4	4	Medium	Red	Adequate	Med. Tall
PV114-R50 SSRIB	1361	2708	Medium	4	16-18	4	4	Medium	Red	Adequate	Med. Tall
PV115-D59 VT2PRIB	1357	2692	Medium	4	16-18	3	3.5	Med. High	Red	Adequate	Med. Tall
PV116-G64 SSRIB NEW	1379	2744	Med. Late	4	16-18	4	4	Medium	Red	Long	Med. Tall
PV116-H31 VT2PRIB	1360	2860	Medium	5	16-18	4	4.5	Med. High	Red	Adequate	Medium

Rating Scale  
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4 = Very Good  
3 = Good  
2.5 = Average  
2 = Fair  
1 = Poor

Drydown	Root Rating	Early Plant Vigor	Greensnap	Stalk Rating	Stalk Health	Intactness	Staygreen	Drought Tolerance	pH	Goss' Wilt	Gray Leaf Spot	Northern Leaf Blight	Southern Leaf Blight	Physoderma Node Breakage	Stalk Anthracnose	Southern Rust	Common Rust	Diplodia Ear Rot	Tar Spot Complex
3	4	3	4	4	4	4	4	3	3.5	4	2.5	3	4	2	2.5	2.5	3	4	2.5
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4	4	4	5	5	4	4	3	3	5	5	3	4	4	2	3	2	3	3	2.5
4	4	5	4	4	3	3	3	3	3	2.5	3	3	4	5	5	3	4	3	2.5
3	4	4	3.5	4	3.5	4	4	4	4	4	4	3	4	5	4	4	3	4	3

Rating Scale  
5 = Excellent  
4 = Very Good  
3 = Good  
2.5 = Average  
2 = Fair  
1 = Poor





Hustle is a unique blend combining essential macro and micro nutrients and a proprietary blend of plant extracts to stimulate seed germination and to maximize early seedling growth and vigor. Hustle also includes a balanced ration of three hormones designed to work together to enhance seed germination and seedling establishment, provide stress reduction in cold soils, enhance cell elongation, and increase nutrient uptake for higher yield potentials.



Application Method:

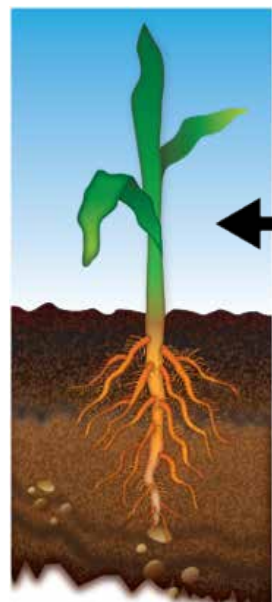
**Use Rate:** Corn - 2.4 oz/cwt  
Soybeans - 1.2 oz/cwt



Unbalanced Ratio of high Auxin to Cytokinin



Balanced Ratio of 3 Key Hormones = Accelerated, Uniform Emergence



Unbalanced Ratio of high Cytokinin to Auxin



## Why Hustle?

- Unique seed treatment offering multiple modes of action giving you a consistent emergence advantage
- Combined performance of proven components formulated into a convenient seed treatment
- Compatible with most other seed treatments and inoculants
- Every seed receives the same chemical message and same amount of food at the exact same time; producing the most even emergence possible

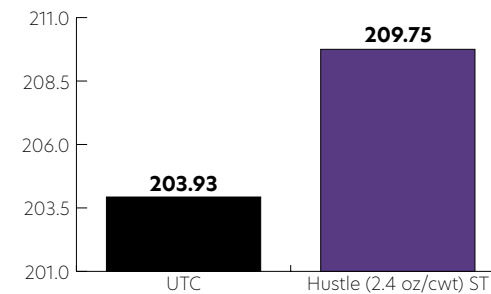
**BIOSTIMULANT**



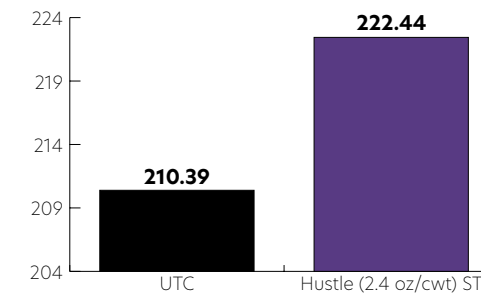
## DATA & ROI by

**RFR**

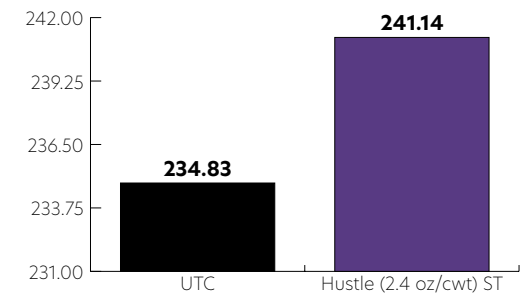
2022 RFR 10 SITES X 4 REPS



2021 RFR 7 SITES X 4 REPS



2020 RFR 6 SITES X 4 REPS

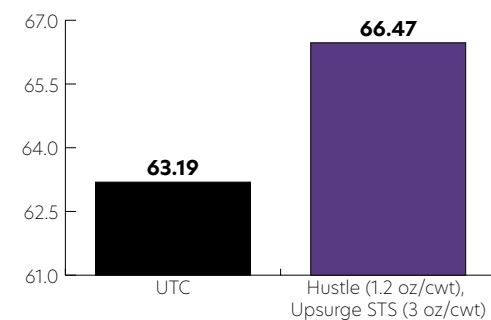


**8.06**

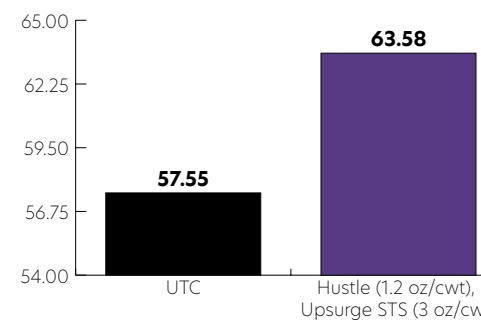
3-Year Average Bushel Advantage

	Yield	Commodity	Cost	Return	Net ROI
<b>Hustle (2.4 oz/cwt)</b>	<b>+8.06</b> bushel advantage	\$5.25	\$8.50	\$42.32	<b>\$33.82</b>

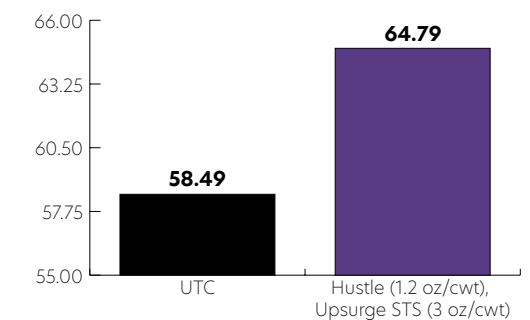
2022 RFR 10 SITES X 4 REPS



2021 RFR 8 SITES X 4 REPS



2020 RFR 7 SITES X 4 REPS



**5.2**

3-Year Average Bushel Advantage

	Yield	Commodity	Cost	Return	Net ROI
<b>Hustle (1.2 oz/cwt)</b>	<b>+5.2</b> bushel advantage	\$12.50	\$10.00	\$65.00	<b>\$55.00</b>

**BIOSTIMULANT**

\*Upsurge STS was CruiserMaxx Vibrance



## ACCELERON<sup>®</sup> BASIC SEED APPLIED SOLUTIONS

### FUNGICIDES

Two modes of action providing enhanced protection against soilborne and seedborne diseases, including *Fusarium*, *Rhizoctonia solani* and *Pythium*.

### INSECTICIDES <sup>[1]</sup>

Controls over 15 corn insect pests and protects against damage from early season pests, such as wireworm, seedcorn maggot, white grub, grape colaspis and black cutworm. Standard insecticide rate of 0.50 mg a.i./seed for products containing Clothianidin.

### NEMATOCIDES <sup>[1]</sup>

Protection against damage from a wide range of nematode species. Refer to your 2024 seed price card for availability and pricing.

### BIO-ENHANCERS

+ BioRise<sup>®</sup> Corn Offering <sup>[2]</sup>

Designed to increase functional root volume, as well as water and nutrient uptake through enhanced mycorrhizal colonization.

## ACCELERON<sup>®</sup> ELITE SEED APPLIED SOLUTIONS

### FUNGICIDES

Protection against soilborne and seedborne diseases, including *Fusarium*, *Rhizoctonia solani* and *Pythium*.

### + ENHANCED DISEASE CONTROL OFFERING

Offers a 3.7 bu/A advantage on average<sup>[3]</sup> with enhanced early- to mid-season disease control due to the reduction of infections caused by *Fusarium*, *Rhizoctonia solani* and *Colletotrichum graminicola*.

### INSECTICIDES <sup>[1]</sup>

Controls over 15 corn insect pests and protects against damage from early season pests, such as wireworm, seedcorn maggot, white grub, grape colaspis and black cutworm. Standard insecticide rate of 0.50 mg a.i./seed for products containing Clothianidin.

### NEW MY24 ACCELERON N-314 SEED TREATMENT NEMATOCIDE OFFERING

on VT4PRO<sup>™</sup> with RNAi Technology and SmartStax<sup>®</sup> PRO with RNAi Technology

### NEMATOCIDES <sup>[1]</sup>

Protection against damage from a wide range of nematode species. Refer to your 2024 seed price card for availability and pricing.

### BIO-ENHANCERS

+ BioRise<sup>®</sup> Corn Offering <sup>[2]</sup>

Designed to increase functional root volume, as well as water and nutrient uptake through enhanced mycorrhizal colonization.

## Corn Benefits

- Comprehensive fungicide package that will provide optimal protection against major yield robbing early season diseases
- Insecticide that is specially formulated to control secondary pests such as wireworm, white grub and other detrimental insects
- New dual MOA nematicide that will protect and systematically control nematodes from robbing your yield
- Poncho<sup>®</sup> Votivo<sup>®</sup> and B-360 biological enhances root growth and nutrient and water uptake efficiency to provide the plant with the optimum opportunity for plant health

<sup>[1]</sup> Insecticide and nematicide offerings will vary by trait and class. Refer to price card, bag tag or bag flap for details. Clothianidin at the 1.25 mg a.i./seed rate available on select products.

<sup>[2]</sup> Class of 2016 and newer base genetics are treated with BioRise<sup>®</sup> 360 ST.

<sup>[3]</sup> Results from seven years of internal trials comparing hybrids treated with and without Enhanced Disease Control Offering + Poncho<sup>®</sup> Votivo<sup>®</sup> Seed Treatment. N=598.

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VT4PRO<sup>™</sup> with RNAi Technology corn products are expected to be commercially available for the 2024 growing season.

ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. FOR CORN: EACH ACCELERON<sup>®</sup> SEED APPLIED SOLUTIONS OFFERING is a combination of separate individually registered products containing the active ingredients: BASIC plus Poncho<sup>®</sup>/VOTIVO<sup>®</sup> Offering for corn: metalaxyl, etribosoxam, prothioconazole, fluoxastrobin, clothianidin, Bacillus thuringiensis I-1582; ELITE plus Poncho<sup>®</sup>/VOTIVO<sup>®</sup> Offering for corn: metalaxyl, etribosoxam, clothianidin, and Bacillus thuringiensis I-1582; prothioconazole and fluoxastrobin at rates that suppress additional diseases; BASIC Offering for corn: metalaxyl, prothioconazole, fluoxastrobin, etribosoxam, and clothianidin; ELITE Offering for corn: metalaxyl, etribosoxam, and clothianidin; and prothioconazole and fluoxastrobin at rates that suppress additional diseases. BioRise<sup>®</sup> Corn Offering is the on-seed application of BioRise<sup>®</sup> 360 ST. BioRise<sup>®</sup> Corn Offering is included seamlessly across offerings on all class of 2017 and newer products.

The distribution, sale, or use of an unregistered pesticide is a violation of federal and/or state law and is strictly prohibited. Not all products are approved in all states.

BioRise<sup>®</sup> Corn Offering is the on-seed application of BioRise<sup>®</sup> 360 ST.

IMPORTANT IRM INFORMATION: Certain products are sold as RB Complete<sup>®</sup> corn blend products, and do not require the planting of a structured refuge except in the Cotton-Growing Area where corn earworm is a significant pest. Products sold without refuge in the bag (non-RB Complete) require the planting of a structured refuge. See the IRM/Grower Guide for additional information. Always read and follow IRM requirements.

Roundup Ready<sup>®</sup> 2 Technology contains genes that confer tolerance to glyphosate. Glyphosate will kill crops that are not tolerant to glyphosate. Insect control technology provided by Vip3A is utilized under license from Syngenta Crop Protection AG. Herculex<sup>®</sup> is a registered trademark of Dow AgroSciences LLC. Agrisure Viptera<sup>®</sup> is a registered trademark of a Syngenta group company. LibertyLink<sup>®</sup>, LibertyLink<sup>®</sup>, Poncho<sup>®</sup>, Poncho<sup>®</sup>/Votivo<sup>®</sup> and Votivo<sup>®</sup> are trademarks of BASF Corporation. Respect the Refuge and Corn Design<sup>®</sup> and Respect the Refuge<sup>®</sup> are registered trademarks of National Corn Growers Association. Acceleron<sup>®</sup>, BioRise<sup>®</sup>, RB Complete<sup>®</sup>, Roundup Ready 2 Technology and Design<sup>®</sup>, Roundup Ready<sup>®</sup>, SmartStax<sup>®</sup> and VT4PRO<sup>™</sup> are trademarks of Bayer Group. ©2023 Bayer Group. All rights reserved.

# DROUGHTGARD® HYBRIDS CAN DO MORE WITH LESS WATER



## UNIQUE SELECTION AND DUAL ADVANCEMENT PROCESS

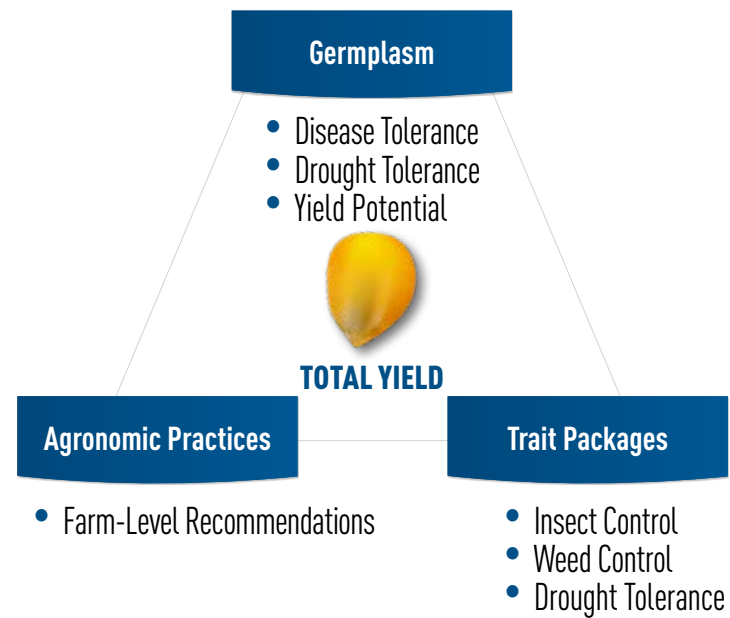


DroughtGard® Hybrids corn products are part of a systems approach to help farmers manage risk by mitigating yield loss caused by drought. The system offers farmers improved genetics, agronomic practice recommendations and the industry's first and only drought-tolerant biotech trait to help corn do more with less water, which can result in increased kernel numbers and reduced frequency of barren plants, providing the opportunity to reduce yield loss in certain drought conditions.

### YIELDS IN EVERY GROWING CONDITION

- The only corn product with a biotech trait for drought tolerance
- Minimizes risk and helps maximize yield potential with the water you have
- Protects when there is drought stress
- Proven to yield in:
  - Dryland conditions
  - Limited irrigation
  - Well-watered conditions

### A SYSTEMS APPROACH HELPING FARMERS MANAGE RISK

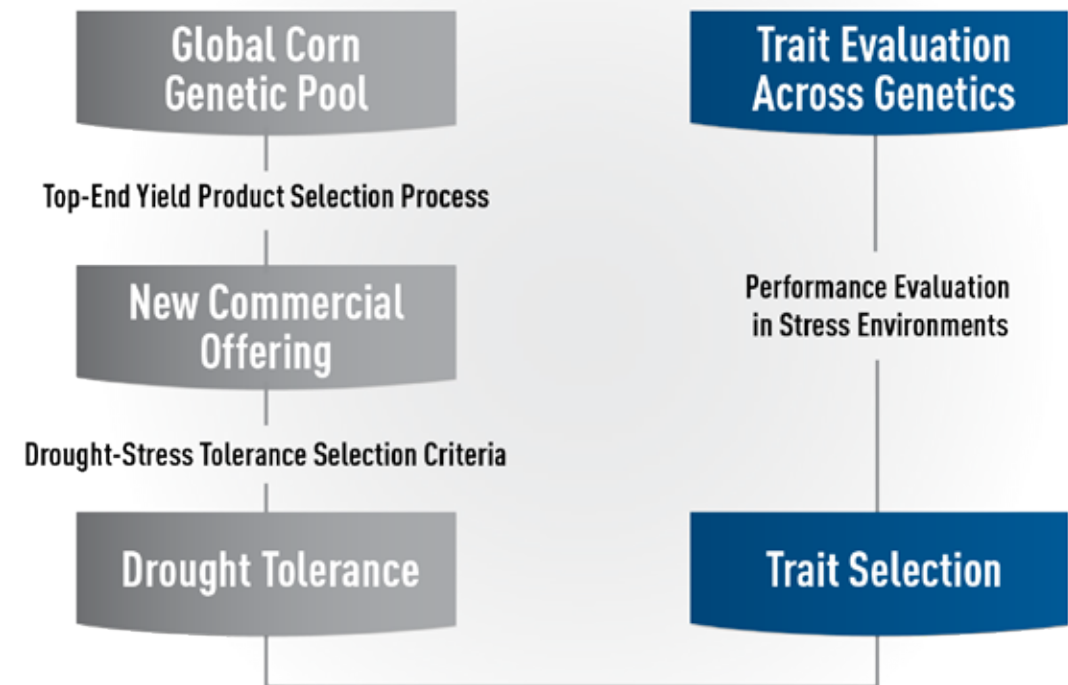


**>5 bu/a ADVANTAGE\***  
versus drought-tolerant competitors



\*2013-2015 Monsanto Trials across the Western Great Plains and Corn Belt. All trials are head-to-head comparisons using +/- 2 RMs and calculated using 15 percent moisture. Data represents weighted average results of leading DroughtGard® Hybrids products vs. drought-tolerant competitors.

A unique Dual Advancement Process ensures the selection of the best genetics by combining our focused drought-breeding program with the first and only drought-tolerant biotech trait to provide a valuable risk management tool — DroughtGard® Hybrids corn products.



For more information, go to [Genuity.com/DroughtGard](http://Genuity.com/DroughtGard)



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DroughtGard® is a trademark of the Bayer Group. ©2019 Bayer Group All Rights Reserved.

For more information, go to [Genuity.com/DroughtGard](http://Genuity.com/DroughtGard)

# CHOOSE THE MOST COMPLETE ABOVE-GROUND PEST PROTECTION FOR CLEANER EARS



## COMPARE YOUR ABOVE-GROUND PROTECTION OPTIONS



With broad spectrum control of above-ground pests, Trecepta® technology can deliver maximum protection from insect damage.

### WHY PLANT TRECEPTA® TECHNOLOGY:

- **PROVEN PERFORMANCE**  
Built on the proven performance of VT Double PRO® technology.
- **CLEANER EARS**  
Promotes healthy stalks and cleaner ears that can help improve grain quality.
- **BROAD PEST SPECTRUM**  
Broad spectrum control of above-ground pests, including corn borer, corn earworm, fall armyworm, black cutworm and western bean cutworm.

### CUT DOWN ON WEEDS, NOT YIELD

Trecepta contains Roundup Ready® 2 Technology, which allows the corn plant to withstand glyphosate herbicide applications. By reducing weed pressure, plants have access to the nutrients and water they need.

### EXCEPTIONAL ABOVE-GROUND PROTECTION

Trecepta® technology reduces yield loss by protecting your corn crop from a wide range of pests. Different modes of action give you more complete control against above-ground insects that can inflict serious crop damage.



SOUTHWESTERN CORN BORER



EUROPEAN CORN BORER



CORN EARWORM



FALL ARMYWORM



BLACK CUTWORM

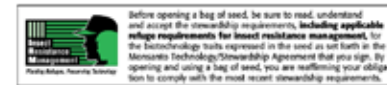


WESTERN BEAN CUTWORM

CORN-GROWING AREA	Trecepta® RIB Complete® Corn Blend	VT Double PRO® RIB Complete® Corn Blend	Agrisure Viptera® 3220 E-Z Refuge® Corn	Optimum® AcreMax Leptra®
<b>PRIMARY PESTS</b>				
European corn borer	**	**	**	**
Southwestern corn borer	***	**	***	***
Fall armyworm	***	**	**	**
Corn earworm <sup>1</sup>	***	**	*	*
Western bean cutworm	*		*	*
Black cutworm	*		**	**
<b>HERBICIDE TECHNOLOGY</b>	Roundup Ready® 2 Technology	Roundup Ready® 2 Technology	Glyphosate	Roundup Ready® 2 Technology / LibertyLink®
<b>REFUGE (Corn-Growing Area)</b>	5% Refuge-in-a-Bag	5% Refuge-in-a-Bag	5% Refuge-in-a-Bag	5% Refuge-in-a-Bag
<b>REFUGE EXAMPLES (Corn-Growing Area)</b>				

**MODES OF ACTION EQUAL CONTROL OF PEST \*\*\* TRIPLE-MODE ACTIVITY \*\* DUAL-MODE ACTIVITY \* SINGLE-MODE ACTIVITY**

<sup>1</sup>Pioneer claims suppression of corn earworm with Herculex I; Syngenta claims suppression of corn earworm with Bt11.  
<sup>2</sup>Cry1A.105 and Cry2Ab2 from Bt controls or suppresses corn earworm



Find more information that can help you maximize clean ears and yield potential at [Genuity.com/CompareTrecepta](http://Genuity.com/CompareTrecepta)

Monsanto Company is a member of Excellence Through Stewardship® (ETS). Monsanto products are commercialized in accordance with ETS Product Launch Stewardship Guidance, and in compliance with Monsanto's Policy for Commercialization of Biotechnology-Derived Plant Products in Commodity Crops. This product has 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.

**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.

**B.t. products** may not yet be registered in all states. Check with your Monsanto representative for the registration status in your state.

**Performance may vary** from location to location and from year to year, as local growing, soil and weather conditions may vary. Growers should evaluate data from multiple locations and years whenever possible and should consider the impacts of these conditions on the grower's fields.

**ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS.** Roundup Ready technology contains genes that confer tolerance to glyphosate, an active ingredient in Roundup® brand agricultural herbicides. Agricultural herbicides containing glyphosate will kill crops that are not tolerant to glyphosate. RIB Complete and Design®, RIB Complete®, Roundup Ready®, Roundup®, VT Double PRO®, and Trecepta® are trademarks of the Bayer Group. LibertyLink® is a registered trademark of BASF. Agrisure Viptera® is a registered trademark of a Syngenta Group Company. Optimum® Acremax and Leptra® are registered trademarks of Dupont Pioneer. Respect the Refuge and Corn Design® is a registered trademark of National Corn Growers Association. All other trademarks are the property of their respective owners.

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Find more information that can help you maximize clean ears and yield potential at [Genuity.com/CompareTrecepta](http://Genuity.com/CompareTrecepta)

# PROVEN DEFENSE AGAINST ABOVE-GROUND YIELD ROBBERS



## COMPARE YOUR ABOVE-GROUND PROTECTION OPTIONS



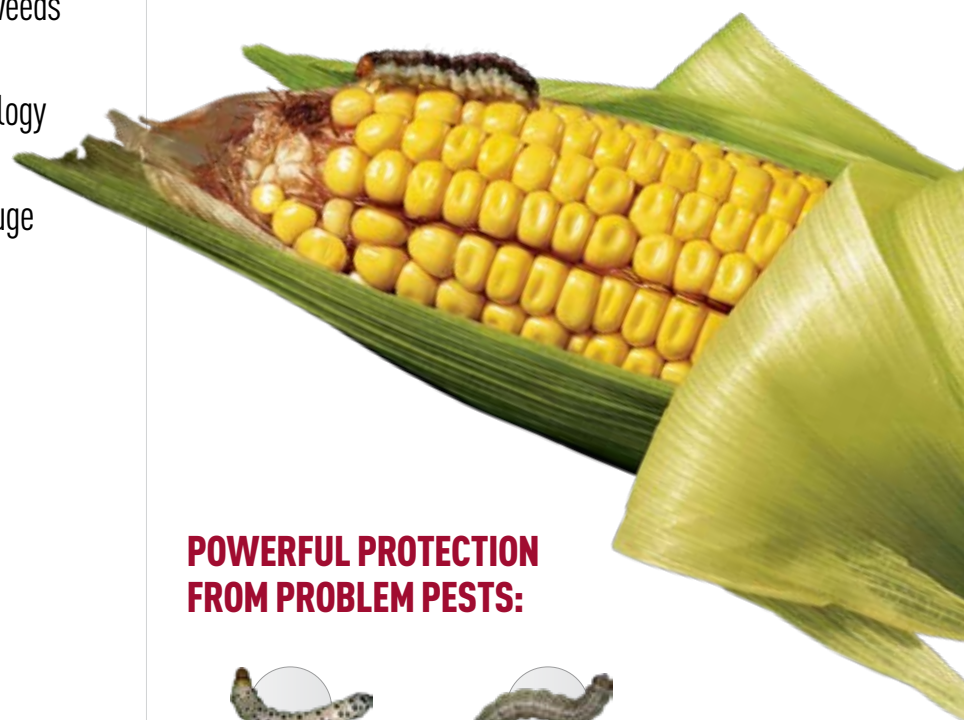
VT Double PRO® RIB Complete® corn blend products protect yield potential and grain quality with dual modes of action proven **effective against above-ground pests**, including southwestern corn borer and European corn borer, fall armyworm, and corn earworm.

### WHAT SETS VT DOUBLE PRO® RIB COMPLETE® CORN BLEND ABOVE THE REST:

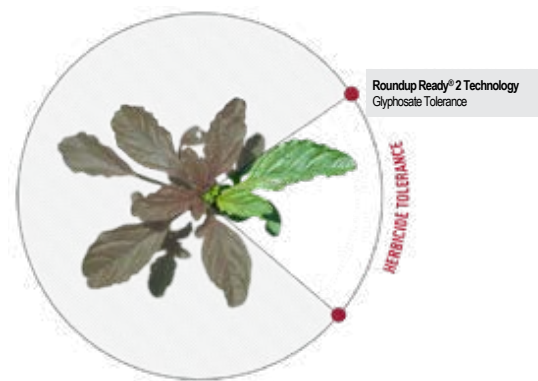
- The first double-stacked corn trait with two ways to control above-ground insects
- Helps plants withstand herbicides, preventing weeds from competing for crucial nutrients and water
- Developed by the industry leader in trait technology and germplasm integration
- Plant-and-go convenience with no separate refuge required in the Corn-Growing Area

### EXCEPTIONAL ABOVE-GROUND PROTECTION

Two individual modes of action give corn plants the above-ground protection they need against major pests that can inflict serious crop damage.



### POWERFUL PROTECTION FROM PROBLEM PESTS:



### CUT DOWN ON WEEDS, NOT YIELD

Roundup Ready® 2 Technology helps the corn plant withstand glyphosate herbicide applications. This helps to prevent susceptible weeds from robbing plants of the nutrients and water they need.

CORN-GROWING AREA	VT Double PRO® RIB Complete® Corn Blend	Herculex® 1	Optimum® AcreMax®
<b>PRIMARY PESTS</b>			
European corn borer	**	*	**
Southwestern corn borer	**	*	**
Fall armyworm	**	*	*
Corn earworm†	**		
Black cutworm		*	*
<b>HERBICIDE TECHNOLOGY</b>	Roundup Ready® 2 Technology	Roundup Ready® Corn 2/LibertyLink®	Roundup Ready® Corn 2/LibertyLink®
<b>REFUGE (Corn-Growing Area)</b>	5% Refuge-in-a-Bag	20% Structured	5% Refuge-in-a-Bag
<b>REFUGE EXAMPLES (Corn-Growing Area)</b>			

Modes of action equal control of pest

\*\* Dual-mode activity \* Single-mode activity

VT Double PRO® RIB Complete® is a corn seed blend of 95% B.T. seed and 5% non-B.T. seed. Optimum® AcreMax® is a RIB blend product. CryIA,105 and Cry2Ab2 from B.T. controls or suppresses corn earworm. †Pioneer claims suppression of corn earworm on the Optimum® AcreMax® and Herculex® 1 labels.



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Performance may vary, from location to location and from year to year, as local growing, soil and weather conditions may vary. Growers should evaluate data from multiple locations and years whenever possible and should consider the impacts of these conditions on the grower's fields.

Roundup Ready® 2 Technology contains genes that confer tolerance to glyphosate. Glyphosate will kill crops that are not tolerant to glyphosate. Herculex® is a registered trademark of Dow AgroSciences LLC. LibertyLink® and LibertyLink® and the Water Droplet Design® are trademarks of BASF Corporation. Respect the Refuge and Corn Design® and Respect the Refuge® are registered trademarks of National Corn Growers Association. RIB Complete®, Roundup Ready 2 Technology and Design™, Roundup Ready®, and VT Triple PRO® are trademarks of Bayer Group. All other trademarks are the property of their respective owners. ©2021 Bayer Group. All rights reserved.

For more information visit [TRAITS.BAYER.COM](http://TRAITS.BAYER.COM)

# DEFEND LIKE A PRO

SmartStax<sup>®</sup> PRO is the next generation of corn rootworm control



## COMPARE YOUR CORN ROOTWORM PROTECTION OPTIONS



The best way to minimize the risk of devastating crop damage is to help maximize control of corn rootworm below ground while protecting against above-ground pests. SmartStax<sup>®</sup> PRO Technology will provide three modes of action against corn rootworm for the strongest biotech defense\* available in 2022.

### WHAT SETS SMARTSTAX<sup>®</sup> PRO TECHNOLOGY APART

- Will be the first product with **THREE** modes of action for corn rootworm control
- Will combine the proven benefits of **SmartStax<sup>®</sup> Technology** with an additional, RNAi-based mode of action
- SmartStax PRO Technology will provide broad-spectrum control for **above- and below-ground pests as well as tolerance to glyphosate and glufosinate herbicides**

### PROVEN PROTECTION FOR ABOVE- AND BELOW-GROUND PROTECTION

Multiple modes of action give corn plants the protection they need against major pests that can inflict serious crop damage.



CORN ROOTWORM (NORTHERN & WESTERN)



EUROPEAN CORN BORER



SOUTHWESTERN CORN BORER



CORN EARWORM



FALL ARMYWORM



BLACK CUTWORM

### QUANTIFYING THE DAMAGE

HEALTHY ROOT



DAMAGED ROOT  
15%-34% Yield Loss  
Root Damage by corn rootworm

Root damage is primarily caused by corn rootworm larval feeding. Every root node nibbled by larvae can result in a yield loss of approximately 15%.<sup>1</sup> In addition, root lodging can impede harvesting, further reducing grain yield by 15%–34%.<sup>2</sup>

	Three Modes-of-Action Products for Corn Rootworm		Dual Modes-of-Action Products for Corn Rootworm		
	SmartStax <sup>®</sup> PRO RIB Complete <sup>®</sup> Corn Blend	SmartStax <sup>®</sup> RIB Complete <sup>®</sup> Corn Blend	Drome <sup>®</sup> Products	Optimum <sup>®</sup> AcreMax <sup>®</sup> XTreme	Agrisure Duracade <sup>®</sup> 5222 E-Z Refuge

### PRIMARY PESTS

Corn Rootworm (Northern & Western)	***	**	**	**	**
European Corn Borer	***	***	**	**	**
Southwestern Corn Borer	***	***	**	**	***
Corn Earworm <sup>1,2</sup>	**	**			*
Fall Armyworm	***	***	*	*	**
Black Cutworm	*	*	*	*	**
<b>HERBICIDE TOLERANCE</b>	Roundup Ready <sup>®</sup> 2 Technology and LibertyLink <sup>®</sup> Technology	Roundup Ready <sup>®</sup> 2 Technology and LibertyLink <sup>®</sup> Technology	Roundup Ready <sup>®</sup> 2 Technology and LibertyLink <sup>®</sup> Technology	Roundup Ready <sup>®</sup> 2 Technology and LibertyLink <sup>®</sup> Technology	Glyphosate and/or LibertyLink <sup>®</sup> Technology

Modes of action equal control of pest

\*\*\* Triple-mode activity \*\* Dual-mode activity \* Single-mode activity

<sup>1</sup>Corvea Agriscience claims suppression of corn earworm with Herculex<sup>®</sup> I Technology  
<sup>2</sup>Syngenta claims suppression of corn earworm with Bt11.

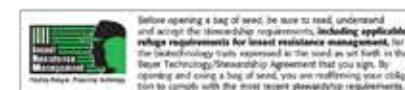
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SmartStax<sup>®</sup> PRO RIB Complete<sup>®</sup> corn blend will be commercially available for the 2022 growing season.

ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. *B.T. products* may not yet be registered in all states. Check with your seed brand representative for the registration status in your state.

IMPORTANT IRM INFORMATION: RIB Complete<sup>®</sup> corn blend products do not require the planting of a structured refuge **except** in the Cotton-Growing Area where corn earworm is a significant pest. See the IRM/Grower Guide for additional information. Always read and follow IRM requirements.

Roundup Ready<sup>®</sup> 2 Technology contains genes that confer tolerance to glyphosate. Glyphosate will kill crops that are not tolerant to glyphosate. Herculex<sup>®</sup> is a registered trademark of Dow AgroSciences LLC. LibertyLink<sup>®</sup> and the Water Droplet Design<sup>®</sup> is a trademark of BASF Corporation. Respect the Refuge and Corn Design<sup>®</sup> and Respect the Refuge<sup>®</sup> are registered trademarks of National Corn Growers Association. RIB Complete<sup>®</sup>, Roundup Ready 2 Technology and Design<sup>®</sup>, Roundup Ready<sup>®</sup> and SmartStax<sup>®</sup> are trademarks of Bayer Group. ©2021 Bayer Group. All rights reserved.



CONTACT YOUR LOCAL BAYER REPRESENTATIVE TO LEARN MORE ABOUT SMARTSTAX<sup>®</sup> PRO TECHNOLOGY

1. Journal of Applied Entomology 137 (2103): Validation of a nested error component model to estimate damage caused by corn rootworm larvae. N.A.Tinsley, R.E.Estes & M.E.Gray.  
2. Spike BP, Tolleson JJ, 1991. Yield response of corn subjected to western corn rootworm (Coleoptera:Chrysomelidae) infestation and lodging. J. econ Entomol. 84, 1585-1590.

\* Based upon 2019-2020 Bayer internal trials comparing leading corn rootworm technologies in fields with moderate to heavy corn rootworm pressure.

# PROVEN IN THE FIELD. REFLECTED IN THE YIELD.

Stay true to your roots with SmartStax®  
RIB Complete® corn blend



## COMPARE YOUR CORN ROOTWORM PROTECTION OPTIONS



The best way to minimize the risk of devastating crop damage is to maximize control of corn rootworm below ground, while protecting against above-ground pests. SmartStax® RIB Complete® corn blend delivers two modes of action for corn rootworm proven to provide the broadest spectrum of defense in your field and the most complete protection for your yield.

### WHAT SETS SMARTSTAX® RIB COMPLETE® CORN BLEND APART:

- **Broad spectrum of insect control** with two, proven highly effective modes of action against corn rootworm and the technology provides above- and below-ground insect control
- Maximize control of corn rootworm, the pest that can cost farmers more than \$1 billion annually in loss of yield potential and cost of control
- Built-in herbicide resistance technologies can help the plant withstand glyphosate and glufosinate herbicide applications to prevent weeds from robbing plants of the nutrients and water they need

### QUANTIFYING THE DAMAGE

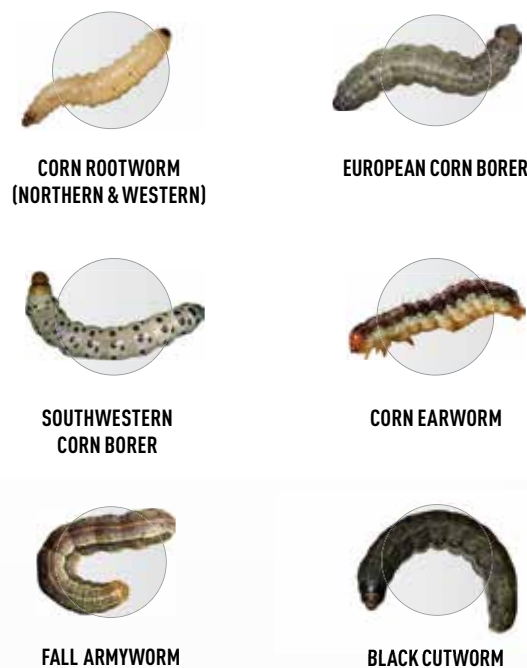
Root damage is primarily caused by CRW larval feeding. Every root node nibbled by larvae results in a yield loss of approximately 15%.<sup>1</sup> In addition, root lodging can impede harvesting, further reducing grain yield by 15%-34%.<sup>2</sup>



**DAMAGED ROOT**  
15%-34% Yield Loss  
Root Damage by CRW

### EXCEPTIONAL ABOVE- AND BELOW-GROUND PROTECTION

Unique modes of action give corn plants the protection they need against major pests that can inflict serious crop damage.

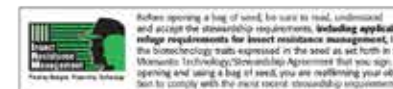


CORN-GROWING AREA	Dual Modes-of-Action products for corn rootworm			Single Mode-of-Action products for corn rootworm	
	SmartStax® RIB Complete® Corn Blend¹	Grome®	Optimum® AcreMax® XTreme®	VT Triple PRO® RIB Complete® Corn Blend¹	Optimum® AcreMax® Xtra¹
<b>PRIMARY PESTS</b>					
Corn Rootworm (Northern & Western)	**	**	**	*	*
European Corn Borer	***	**	**	**	**
Southwestern Corn Borer	***	**	**	**	**
Corn Earworm <sup>2, 4</sup>	**			**	
Fall Armyworm	***	*	*	**	*
Black Cutworm	*	*	*		*
<b>HERBICIDE TOLERANCE</b>	Roundup Ready® 2 Technology/LibertyLink®	Roundup Ready® Corn 2/LibertyLink®	Roundup Ready® Corn 2/LibertyLink®	Roundup Ready® 2 Technology	Roundup Ready® Corn 2/LibertyLink®
<b>REFUGE (Corn-Growing Area)</b>	5% Refuge-in-a-Bag	5% Refuge-in-a-Bag	5% Refuge-in-a-Bag	10% Refuge-in-a-Bag	10% Refuge-in-a-Bag
<b>REFUGE EXAMPLE (Corn-Growing Area)</b>					

Modes of action equal control of pest

\*\*\* Triple-mode activity \*\* Dual-mode activity \* Single-mode activity

¹SmartStax® RIB Complete®, Grome® and Optimum® AcreMax® XTreme® are corn seed blends of 95% B.T. seed and 5% non-B.T. seed. Pioneer claims suppression of corn earworm on the Optimum® AcreMax® XTreme® and Optimum® AcreMax® Xtra labels. ²Genuity® VT Triple PRO® RIB Complete® and Optimum® AcreMax® Xtra are corn seed blends of 50% B.T. seed and 10% non-B.T. seed. ³CryIA,105 and Cry2Ab2 from B.T. controls or suppresses corn earworm.



For more information visit  
[TRAITS.BAYER.COM](http://TRAITS.BAYER.COM)

Bayer is a member of Excellence Through Stewardship® (ETS). Bayer products are commercialized in accordance with ETS Product Launch Stewardship Guidance, and in compliance with Bayer's Policy for Commercialization of Biotechnology-Derived Plant Products in Commodity Crops. Commercialized products have been approved for import into key export markets with functioning regulatory systems. Any crop or material produced from this product can only be exported to, or used, processed or sold in countries where all necessary regulatory approvals have been granted. It is a violation of national and international law to move material containing biotech traits across boundaries into nations where import is not permitted. Growers should talk to their grain handler or product purchaser to confirm their buying position for this product. Excellence Through Stewardship® is a registered trademark of Excellence Through Stewardship.

ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. B.T. products may not yet be registered in all states. Check with your seed brand representative for the registration status in your state.

IMPORTANT IRM INFORMATION: RIB Complete® corn blend products do not require the planting of a structured refuge except in the Cotton-Growing Area where corn earworm is a significant pest. See the IRM/Grower Guide for additional information. Always read and follow IRM requirements.

Performance may vary, from location to location and from year to year, as local growing, soil and weather conditions may vary. Growers should evaluate data from multiple locations and years whenever possible and should consider the impacts of these conditions on the grower's fields.

Roundup Ready® 2 Technology contains genes that confer tolerance to glyphosate. Glyphosate will kill crops that are not tolerant to glyphosate. Herculex® is a registered trademark of Dow AgroSciences LLC. LibertyLink® and LibertyLink® and the Water Droplet Design® are trademarks of BASF Corporation. Respect the Refuge and Corn Design® and Respect the Refuge® are registered trademarks of National Corn Growers Association. RIB Complete®, Roundup Ready 2 Technology and Design™, Roundup Ready®, SmartStax® and VT Triple PRO® are trademarks of Bayer Group. All other trademarks are the property of their respective owners. ©2021 Bayer Group. All rights reserved.

1. Journal of Applied Entomology 137 (2103). Validation of a nested error component model to estimate damage cause by corn rootworm larvae. N.A.Tinsley, R.E.Estes & M.E.Gray  
2. Spike BP, Tollefson JJ, 1991. Yield response of corn subjected to western corn rootworm (Coleoptera:Chrysomelidae) infestation and lodging. J. con. Entomol. 84, 1585-1590.  
3. Commodity Price \$3.25/ac, Source: Kynetec TraitTrak Data, 2016

For more information visit  
[TRAITS.BAYER.COM](http://TRAITS.BAYER.COM)



# HYBRID CORN SEED







# B08G23AM™



108 RM

Leader hybrid with top-end yield potential, solid agronomic package for moderate to high yield environments.

Moderate-tall statured hybrid with solid stalks and late season health.

Excellent root strength for poorly drained soils and heavy soil types.

Maintain moderate to moderate-high plant densities to support semi-flex ear type

Good disease package supports adaptation across the Corn Belt.

For optimal performance, position in moderate to high yield environments. Avoid drought prone soil types.

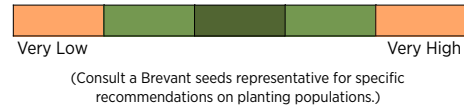
## YIELD ENVIRONMENTS

- ★ Highly Productive
- ✓ Moderate
- ⦿ Low

## CROP MANAGEMENT

- ⦿ Early Planting
- ✓ Late Planting
- ✓ Delayed Harvest

## POPULATION



## SOIL ADAPTABILITY

- ★ Poorly Drained Soils
- ⦿ Sandy Soils
- ✓ Clay Soils

## CROP ROTATION

- ⦿ Continuous Corn
- ★ Corn / Soybean

## FUNGICIDE RESPONSE



## AGRONOMICS

- ⦿ Stress Emergence
- ✓ Stalks
- ★ Roots
- ✓ Green Snap
- ✓ Stay Green
- ⦿ Drought Tolerance
- NA High pH Soil Tolerance
- ✓ Test Weight
- ✓ Husk Cover

## DISEASE TOLERANCE

- ✓ Gray Leaf Spot
- ✓ NCLB
- ✓ Tar Spot
- ✓ Goss's Wilt
- ⦿ SCLB
- ✓ S. Corn Rust
- ✓ Anthracnose Stalk Rot
- ✓ Fusarium Ear Rot
- ✓ Diplodia Ear Rot
- NA Giberella Ear Rot

## CHARACTERISTICS

Relative Maturity Range.....106-110  
 GDUs to Mid-Silk..... 1360  
 GDUs to Black Layer..... 2730  
 Plant Height..... Medium-Tall  
 Ear Height..... Medium  
 Ear Flex..... Semi-Flex  
 Cob Color..... Pink-Orange

## HERBICIDE TOLERANCES



- KEY**
- ★ Highly Suitable - Key Strength
  - ✓ Suitable - Meets Standards
  - ⦿ Manage Appropriately
  - ✗ Strong Caution - Limitation
  - NA Rating Not Available



# B09Z08AM™



109 RM

Leader hybrid for the central Corn Belt with sound agronomics.

Good stress emergence suitable for early planting and no-till.

Excellent root strength for poorly drained soils and heavy soil types.

Solid overall agronomic package includes good stalks and tolerance to green snap.

Average Goss's wilt tolerance may limit western adaptation.

May require fungicide application in high-risk gray leaf spot environments.

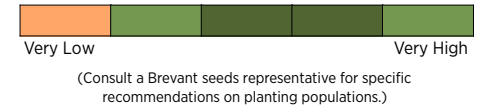
## YIELD ENVIRONMENTS

- ★ Highly Productive
- ★ Moderate
- ✓ Low

## CROP MANAGEMENT

- ✓ Early Planting
- ✓ Late Planting
- ✓ Delayed Harvest

## POPULATION



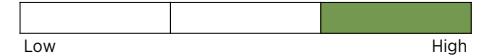
## SOIL ADAPTABILITY

- ★ Poorly Drained Soils
- ✓ Sandy Soils
- ★ Clay Soils

## CROP ROTATION

- ⦿ Continuous Corn
- ★ Corn / Soybean

## FUNGICIDE RESPONSE



## AGRONOMICS

- ✓ Stress Emergence
- ✓ Stalks
- ★ Roots
- ✓ Green Snap
- ⦿ Stay Green
- ✓ Drought Tolerance
- ★ High pH Soil Tolerance
- ★ Test Weight
- ✓ Husk Cover

## DISEASE TOLERANCE

- ⦿ Gray Leaf Spot
- ✓ NCLB
- ★ Tar Spot
- ⦿ Goss's Wilt
- ✓ SCLB
- ⦿ S. Corn Rust
- ⦿ Anthracnose Stalk Rot
- ★ Fusarium Ear Rot
- ⦿ Diplodia Ear Rot
- ⦿ Giberella Ear Rot

## CHARACTERISTICS

Relative Maturity Range..... 107-111  
 GDUs to Mid-Silk..... 1310  
 GDUs to Black Layer..... 2630  
 Plant Height..... Medium-Short  
 Ear Height..... Medium  
 Ear Flex..... Semi-Flex  
 Cob Color..... White

## HERBICIDE TOLERANCES



- KEY**
- ★ Highly Suitable - Key Strength
  - ✓ Suitable - Meets Standards
  - ⦿ Manage Appropriately
  - ✗ Strong Caution - Limitation
  - NA Rating Not Available



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 Brevant seeds. Ratings denoted with an asterisk (\*) reflect preliminary data subject to change when additional data becomes available.

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**B10H24Q™**  
NEW QROME  
**110 RM**  
Broadly adapted leader built for the Corn Belt.

Top-end yield performance across the corn belt.

Excellent plant stature and root strength for prairie soils.

Great test weight and grain quality.

Good drought, Goss's wilt and green snap tolerances makes this a great choice for western acres.

A fungicide is recommended in areas with heavy northern corn leaf blight.



**BREVANT**  
seeds  
Trait versions with same base  
**B10H24AM™**




**B11C37AM™**  
NEW Optimum AcreMax ABOVE  
**111 RM**  
Exciting combination of yield performance and agronomics to perform across the corn belt.

Early silking, agronomically sound hybrid with excellent drought tolerance.

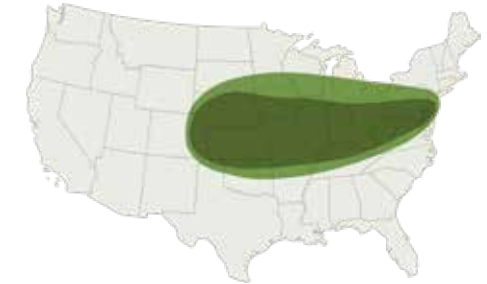
Great stalks, sound roots and strong green snap tolerance.

Strong disease package across the board.

Very good staygreen and appearance at harvest.



**BREVANT**  
seeds



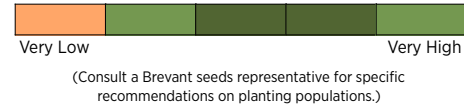
### YIELD ENVIRONMENTS

- ★ Highly Productive
- ✓ Moderate
- ✓ Low

### CROP MANAGEMENT

- ✓ Early Planting
- ✓ Late Planting
- ✓ Delayed Harvest

### POPULATION



### SOIL ADAPTABILITY

- ✓ Poorly Drained Soils
- ✓ Sandy Soils
- ✓ Clay Soils

### CROP ROTATION

- ✓ Continuous Corn
- ★ Corn / Soybean

### FUNGICIDE RESPONSE



### AGRONOMICS

- ✓ Stress Emergence
- ✓ Stalks
- ★ Roots
- ✓ Green Snap
- ✓ Stay Green
- ✓ Drought Tolerance
- ✓ High pH Soil Tolerance
- ★ Test Weight
- ✓ Husk Cover

### DISEASE TOLERANCE

- ★ Gray Leaf Spot
- ⦿ NCLB
- ★ Tar Spot
- ★ Goss's Wilt
- ✓ SCLB
- ✓ S. Corn Rust
- ⦿ Anthracnose Stalk Rot
- ✗ Fusarium Ear Rot
- ⦿ Diplodia Ear Rot
- ✓ Giberella Ear Rot

### CHARACTERISTICS

Relative Maturity Range..... 108-112  
GDUs to Mid-Silk..... 1380  
GDUs to Black Layer..... 2650  
Plant Height..... Medium  
Ear Height..... Medium  
Ear Flex..... Semi-Flex  
Cob Color..... Pink-Orange

### HERBICIDE TOLERANCES



#### KEY

- ★ Highly Suitable - Key Strength
- ✓ Suitable - Meets Standards
- ⦿ Manage Appropriately
- ✗ Strong Caution - Limitation
- NA Rating Not Available

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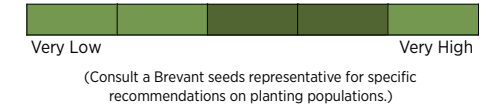
### YIELD ENVIRONMENTS

- ✓ Highly Productive
- ★ Moderate
- ★ Low

### CROP MANAGEMENT

- ★ Early Planting
- ✓ Late Planting
- ★ Delayed Harvest

### POPULATION



### SOIL ADAPTABILITY

- ★ Poorly Drained Soils
- ★ Sandy Soils
- ★ Clay Soils

### CROP ROTATION

- ✓ Continuous Corn
- ★ Corn / Soybean

### FUNGICIDE RESPONSE



### AGRONOMICS

- ★ Stress Emergence
- ★ Stalks
- ✓ Roots
- ✓ Green Snap
- ★ Stay Green
- ★ Drought Tolerance
- NA High pH Soil Tolerance
- ★ Test Weight
- ✓ Husk Cover

### DISEASE TOLERANCE

- ✓ Gray Leaf Spot
- ★ NCLB
- NA Tar Spot
- ✓ Goss's Wilt
- ✓ SCLB
- ✓ S. Corn Rust
- ★ Anthracnose Stalk Rot
- ⦿ Fusarium Ear Rot
- ✓ Diplodia Ear Rot
- ★ Giberella Ear Rot

### CHARACTERISTICS

Relative Maturity Range..... 108-114  
GDUs to Mid-Silk..... 1340  
GDUs to Black Layer..... 2760  
Plant Height..... Medium-Tall  
Ear Height..... Medium  
Ear Flex..... Semi-Flex  
Cob Color..... Pink-Orange

### HERBICIDE TOLERANCES



#### KEY

- ★ Highly Suitable - Key Strength
- ✓ Suitable - Meets Standards
- ⦿ Manage Appropriately
- ✗ Strong Caution - Limitation
- NA Rating Not Available

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# B12C01Q™



# BREVANT seeds

Trait versions with same base  
**B12C01AM™**  
**B12C01™**  
**B12C01CYFR™**

**112 RM**

Exciting combination of high yield potential, strong agronomics and versatility to perform on a wide variety of acres.

Broadly adapted across most soil types, and yield environments.

Good ear flex allows adaptability across planting populations.

Optimum® AQUAmax® hybrid for drought-prone geographies.

Excellent stalks and roots combined with strong green snap and Goss`'s wilt tolerance.

May require fungicide application in high-risk northern corn leaf blight or gray leaf spot environments.



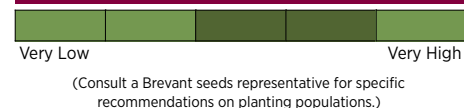
## YIELD ENVIRONMENTS

- ★ Highly Productive
- ★ Moderate
- ✓ Low

## CROP MANAGEMENT

- ✓ Early Planting
- ✓ Late Planting
- ✓ Delayed Harvest

## POPULATION



## SOIL ADAPTABILITY

- ✓ Poorly Drained Soils
- ★ Sandy Soils
- ✓ Clay Soils

## CROP ROTATION

- ✓ Continuous Corn
- ★ Corn / Soybean

## FUNGICIDE RESPONSE



## AGRONOMICS

- ✓ Stress Emergence
- ★ Stalks
- ★ Roots
- ★ Green Snap
- ✓ Stay Green
- ★ Drought Tolerance
- ★ High pH Soil Tolerance
- ★ Test Weight
- ✓ Husk Cover

## DISEASE TOLERANCE

- ⦿ Gray Leaf Spot
- ✓ NCLB
- ✓ Tar Spot
- ✓ Goss's Wilt
- ✗ SCLB
- ⦿ S. Corn Rust
- ✓ Anthracnose Stalk Rot
- ⦿ Fusarium Ear Rot
- ⦿ Diplodia Ear Rot
- ⦿ Giberella Ear Rot

## CHARACTERISTICS

Relative Maturity Range..... 110-114  
 GDUs to Mid-Silk..... 1340  
 GDUs to Black Layer..... 2630  
 Plant Height..... Medium  
 Ear Height..... Moderately High  
 Ear Flex..... Semi-Flex  
 Cob Color..... Pink

## HERBICIDE TOLERANCES



### KEY

- ★ **Highly Suitable - Key Strength**
- ✓ **Suitable - Meets Standards**
- ⦿ **Manage Appropriately**
- ✗ **Strong Caution - Limitation**
- NA **Rating Not Available**

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# B14G14AM™



# BREVANT seeds

**114 RM**

Industry leading hybrid for yield potential, agronomics and stability in the central and western central corn belt.

Excellent stress emergence in this hybrid make it a great choice for early planting.

Standability is a strength with above average stalks, roots and green snap.

Excellent eye appeal and staygreen.

Consider a fungicide application for fields with a high risk of northern corn leaf blight.



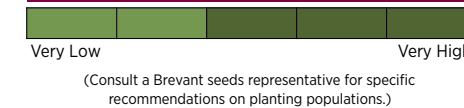
## YIELD ENVIRONMENTS

- ★ Highly Productive
- ★ Moderate
- ✓ Low

## CROP MANAGEMENT

- ★ Early Planting
- ✓ Late Planting
- ✓ Delayed Harvest

## POPULATION



## SOIL ADAPTABILITY

- ✓ Poorly Drained Soils
- ✓ Sandy Soils
- ✓ Clay Soils

## CROP ROTATION

- ⦿ Continuous Corn
- ★ Corn / Soybean

## FUNGICIDE RESPONSE



## AGRONOMICS

- ★ Stress Emergence
- ✓ Stalks
- ✓ Roots
- ★ Green Snap
- ★ Stay Green
- ✓ Drought Tolerance
- ✓ High pH Soil Tolerance
- ★ Test Weight
- ✓ Husk Cover

## DISEASE TOLERANCE

- ✓ Gray Leaf Spot
- ✓ NCLB
- ✓ Tar Spot
- ✓ Goss's Wilt
- ✓ SCLB
- ✓ S. Corn Rust
- ✓ Anthracnose Stalk Rot
- ✓ Fusarium Ear Rot
- ★ Diplodia Ear Rot
- ★ Giberella Ear Rot

## CHARACTERISTICS

Relative Maturity Range..... 111-115  
 GDUs to Mid-Silk..... 1430  
 GDUs to Black Layer..... 2680  
 Plant Height..... Tall  
 Ear Height..... Moderately High  
 Ear Flex..... Semi-Flex  
 Cob Color..... Red

## HERBICIDE TOLERANCES



### KEY

- ★ **Highly Suitable - Key Strength**
- ✓ **Suitable - Meets Standards**
- ⦿ **Manage Appropriately**
- ✗ **Strong Caution - Limitation**
- NA **Rating Not Available**

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# B14H38Q™

NEW



114 RM

High performing hybrid that thrives across a wide geographic area.

Nice disease package to work coast to coast.

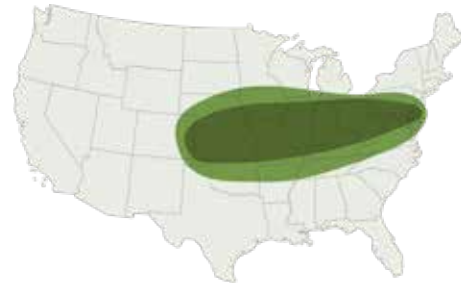
Good stalk, root and green snap tolerances for this high yield play.

Above average drought tolerance matched with an early silk for its maturity.

Stable performance across high and low yielding environments.



Trait versions with same base B14H38AM™



# B14R22Q™

NEW



114 RM

Dominating top-end yield potential with good stability at lower yield levels.

Best performance in traditional 113 RM zone and south.

Good roots and high yield potential make this hybrid well suited for prairie soils.

High test weight and above average drought tolerance supports western yield performance.

Consider a fungicide application for fields with a high risk of northern corn leaf blight.



Trait versions with same base B14R22AML™



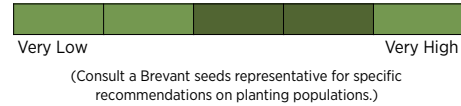
## YIELD ENVIRONMENTS

- ★ Highly Productive
- ★ Moderate
- ✓ Low

## CROP MANAGEMENT

- ✓ Early Planting
- ✓ Late Planting
- ✓ Delayed Harvest

## POPULATION



## SOIL ADAPTABILITY

- ✓ Poorly Drained Soils
- ✓ Sandy Soils
- ✓ Clay Soils

## CROP ROTATION

- ✓ Continuous Corn
- ★ Corn / Soybean

## FUNGICIDE RESPONSE



## AGRONOMICS

- ✓ Stress Emergence
- ✓ Stalks
- ✓ Roots
- ✓ Green Snap
- ✓ Stay Green
- ✓ Drought Tolerance
- NA High pH Soil Tolerance
- ★ Test Weight
- ✓ Husk Cover

## DISEASE TOLERANCE

- ✓ Gray Leaf Spot
- ✓ NCLB
- NA Tar Spot
- ✓ Goss's Wilt
- ✓ SCLB
- ◇ S. Corn Rust
- ◇ Anthracnose Stalk Rot
- ✓ Fusarium Ear Rot
- ✓ Diplodia Ear Rot
- ★ Giberella Ear Rot

## CHARACTERISTICS

Relative Maturity Range..... 111-115  
 GDUs to Mid-Silk..... 1390  
 GDUs to Black Layer..... 2860  
 Plant Height..... Medium  
 Ear Height..... Moderately High  
 Ear Flex..... Semi-Flex  
 Cob Color..... Red

## HERBICIDE TOLERANCES



- KEY**
- ★ Highly Suitable - Key Strength
  - ✓ Suitable - Meets Standards
  - ◇ Manage Appropriately
  - ✗ Strong Caution - Limitation
  - NA Rating Not Available

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 Brevant seeds. Ratings denoted with an asterisk (\*) reflect preliminary data subject to change when additional data becomes available.

Information and scores are assigned by Brevant Seeds and are based on period-of-years testing through 2022 harvest and were the latest available at time of printing. Some scores may change after 2023 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.



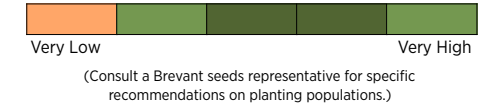
## YIELD ENVIRONMENTS

- ★ Highly Productive
- ✓ Moderate
- ✓ Low

## CROP MANAGEMENT

- ✓ Early Planting
- ✓ Late Planting
- ✓ Delayed Harvest

## POPULATION



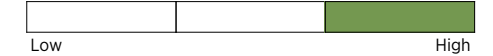
## SOIL ADAPTABILITY

- ◇ Poorly Drained Soils
- ✓ Sandy Soils
- ✓ Clay Soils

## CROP ROTATION

- ✓ Continuous Corn
- ★ Corn / Soybean

## FUNGICIDE RESPONSE



## AGRONOMICS

- ✓ Stress Emergence
- ✓ Stalks
- ★ Roots
- ✓ Green Snap
- ◇ Stay Green
- ✓ Drought Tolerance
- ✓ High pH Soil Tolerance
- ★ Test Weight
- ✓ Husk Cover

## DISEASE TOLERANCE

- ✓ Gray Leaf Spot
- ✓ NCLB
- NA Tar Spot
- ✓ Goss's Wilt
- ✓ SCLB
- ◇ S. Corn Rust
- ◇ Anthracnose Stalk Rot
- ★ Fusarium Ear Rot
- ✓ Diplodia Ear Rot
- ◇ Giberella Ear Rot

## CHARACTERISTICS

Relative Maturity Range..... 112-115  
 GDUs to Mid-Silk..... 1420  
 GDUs to Black Layer..... 2810  
 Plant Height..... Medium-Tall  
 Ear Height..... Moderately High  
 Ear Flex..... Semi-Flex  
 Cob Color..... Pink-Orange

## HERBICIDE TOLERANCES



- KEY**
- ★ Highly Suitable - Key Strength
  - ✓ Suitable - Meets Standards
  - ◇ Manage Appropriately
  - ✗ Strong Caution - Limitation
  - NA Rating Not Available

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 Brevant seeds. Ratings denoted with an asterisk (\*) reflect preliminary data subject to change when additional data becomes available.

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# HYBRID CORN SEED



# CORN



## NK0798

**NEW** RM: 107

Silk	Black Layer
RM: 106	RM: 108
GDU: 1380	GDU: 2550

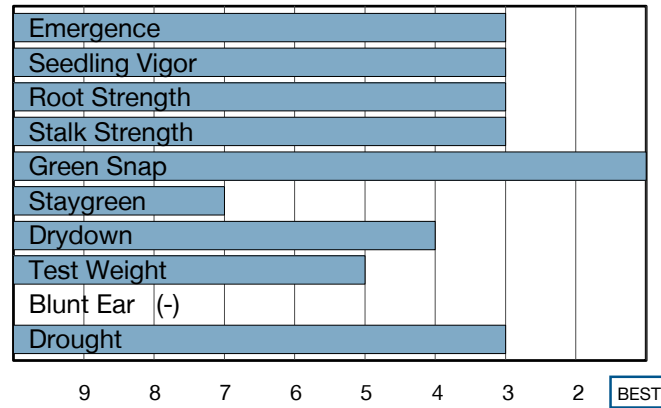


Brands Available: NK0798-DV **NEW**

### Outstanding Yield Potential in the Western Corn Belt

- Superior greensnap tolerance
- Tremendous hybrid for corn-on-corn acres
- Strong roots and stalks for season-long standability

### Agronomic Characteristics



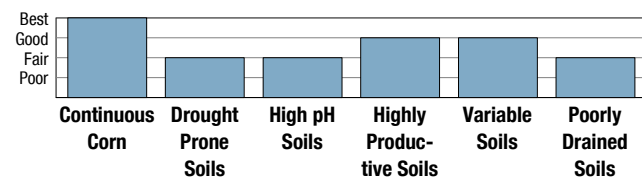
### Disease Tolerance

Gray Leaf Spot	4
Northern Corn Leaf Blight	3
Goss's Wilt	4
Bacterial Leaf Streak	4
Southern Corn Leaf Blight	-
Eyespot	-
Anthracnose Stalk Rot	4
Tar Spot	4
Fusarium Crown Rot	5
Common Rust	-
Southern Rust	-

### Plant & Ear Characteristics

Plant Height	Ear Height	Ear Flex	Cob Color	Husk Cover	Leaf Type	Root Type
4	4	Semi-Determinate	Red	Long	Semi-Upright	Modified

### Performance In...



### Seeding Rates

Yield Environment	Target Seeds/Ac
300 bu/Ac	42,500
260 bu/Ac	39,500
220 bu/Ac	36,500
190 bu/Ac	34,000
150 bu/Ac	31,000

More info:



For more information or to view product performance data: [nkcorn.com](http://nkcorn.com) [nkfieldforged.com](http://nkfieldforged.com) @NKSeeds (800) 258-0521

1-9 Scale: 1 = Best, Tallest or Highest; 9 = Worst, Shortest or Lowest; (-) = Not Available.



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

Ratings are based on interpretation of data gathered by Syngenta and/or observations across areas of adaptation and may change as additional data are gathered. Product performance assumes disease presence.  
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# CORN



## NK0922

**NEW** RM: 109

Silk	Black Layer
RM: 108	RM: 111
GDU: 1380	GDU: 2590

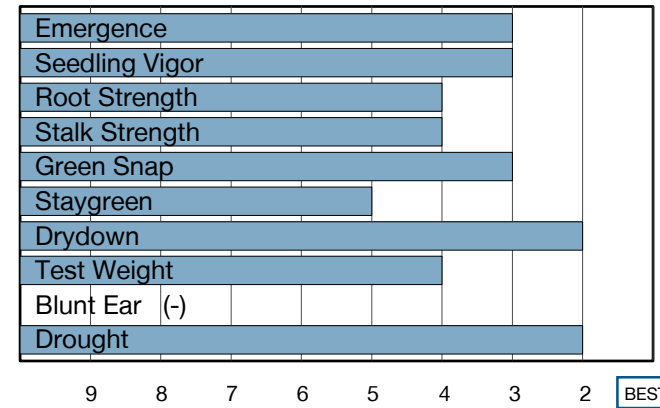


Brands Available: NK0922-V **NEW**

### Broadly Adapted Hybrid for the Central and Western Corn Belt

- Rapid drydown for a timely harvest
- Strong green snap tolerance for western geographies
- Excellent drought tolerance for placement on variable and drought-prone acres

### Agronomic Characteristics



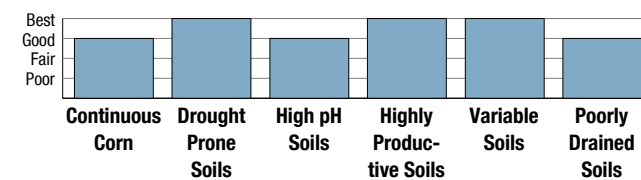
### Disease Tolerance

Gray Leaf Spot	2
Northern Corn Leaf Blight	5
Goss's Wilt	5
Bacterial Leaf Streak	4
Southern Corn Leaf Blight	-
Eyespot	-
Anthracnose Stalk Rot	5
Tar Spot	5
Fusarium Crown Rot	6
Common Rust	-
Southern Rust	-

### Plant & Ear Characteristics

Plant Height	Ear Height	Ear Flex	Cob Color	Husk Cover	Leaf Type	Root Type
4	4	Semi-Flex	Red	Medium	Semi-Upright	Penetrating

### Performance In...



### Seeding Rates

Yield Environment	Target Seeds/Ac
300 bu/Ac	36,000
260 bu/Ac	34,000
220 bu/Ac	32,000
190 bu/Ac	31,000
150 bu/Ac	29,000

More info:



For more information or to view product performance data: [nkcorn.com](http://nkcorn.com) [nkfieldforged.com](http://nkfieldforged.com) @NKSeeds (800) 258-0521

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# CORN



## NK1040



**NEW**

RM: 110

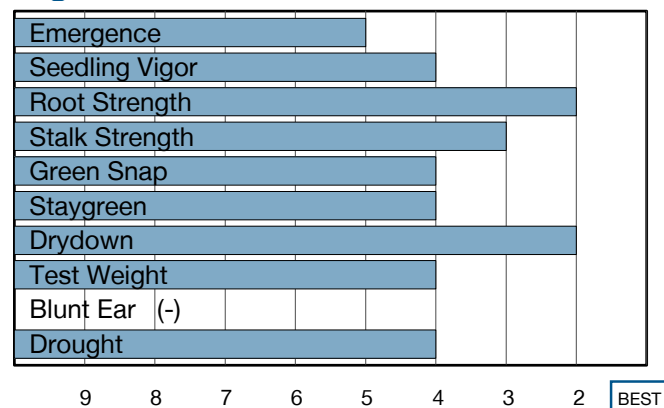
Silk	Black Layer
RM: 112	RM: 116
GDU: 1420	GDU: 2660

Brands Available: NK1040-AA<sup>NEW</sup>

### Broadly Adapted Hybrid with Tremendous Performance on Highly Productive Soils

- Excellent roots with dependable stalks for season-long standability
- Proven tolerance against Tar Spot, Gray Leaf Spot, and Bacterial Leaf Streak
- Rapid drydown for a timely harvest

#### Agronomic Characteristics



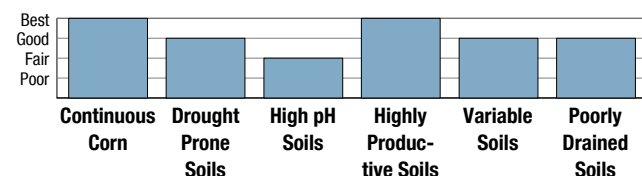
#### Disease Tolerance

Gray Leaf Spot	3
Northern Corn Leaf Blight	4
Goss's Wilt	6
Bacterial Leaf Streak	3
Southern Corn Leaf Blight	-
Eyespot	-
Anthracnose Stalk Rot	4
Tar Spot	3
Fusarium Crown Rot	5
Common Rust	-
Southern Rust	3

#### Plant & Ear Characteristics

Plant Height	Ear Height	Ear Flex	Cob Color	Husk Cover	Leaf Type	Root Type
4	4	Semi-Flex	Red	Medium	Semi-Upright	Fibrous

#### Performance In...



#### Seeding Rates

Yield Environment	Target Seeds/Ac
300 bu/Ac	36,000
260 bu/Ac	34,500
220 bu/Ac	33,500
190 bu/Ac	32,500
150 bu/Ac	31,000

More info:



For more information or to view product performance data: [nk.com](http://nk.com) [nkfieldforged.com](http://nkfieldforged.com) @NKSeeds (800) 258-0521

1-9 Scale: 1 = Best, Tallest or Highest; 9 = Worst, Shortest or Lowest; (-) = Not Available.



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

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# CORN



## NK1082



RM: 110

Silk	Black Layer
RM: 109	RM: 113
GDU: 1395	GDU: 2620

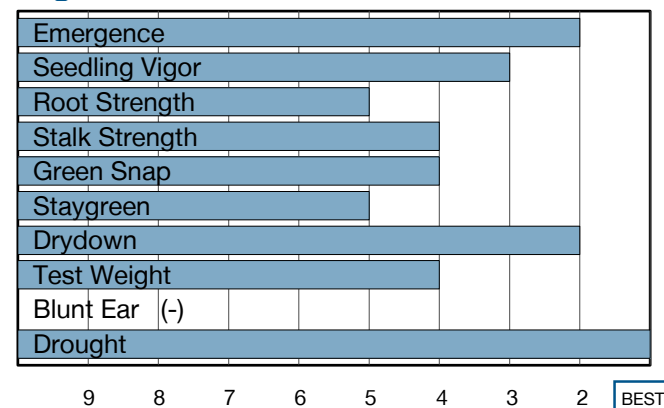
Brands Available: NK1082-DV  
NK1082-V

### Excellent Yield Potential Across the Entire Corn Belt with Artesian Technology

- Broadly adapted hybrid for all yield environments
- Moderate plant stature with great emergence for earlier planting window
- Semi-flex ear type enables population flexibility



#### Agronomic Characteristics



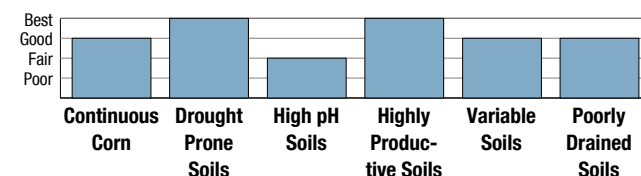
#### Disease Tolerance

Gray Leaf Spot	4
Northern Corn Leaf Blight	6
Goss's Wilt	3
Bacterial Leaf Streak	3
Southern Corn Leaf Blight	4
Eyespot	3
Anthracnose Stalk Rot	-
Tar Spot	4
Fusarium Crown Rot	5
Common Rust	7
Southern Rust	4

#### Plant & Ear Characteristics

Plant Height	Ear Height	Ear Flex	Cob Color	Husk Cover	Leaf Type	Root Type
5	6	Semi-Flex	Red	Medium	Semi-Upright	Modified

#### Performance In...



#### Seeding Rates

Yield Environment	Target Seeds/Ac
300 bu/Ac	34,500
260 bu/Ac	33,000
220 bu/Ac	32,000
190 bu/Ac	30,500
150 bu/Ac	25,500

More info:



For more information or to view product performance data: [nk.com](http://nk.com) [nkfieldforged.com](http://nkfieldforged.com) @NKSeeds (800) 258-0521

1-9 Scale: 1 = Best, Tallest or Highest; 9 = Worst, Shortest or Lowest; (-) = Not Available.



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

Ratings are based on interpretation of statistically analyzed results of studies conducted by Syngenta and may change as additional data are gathered.  
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# CORN



## NK1188



RM: 111

Silk	Black Layer
RM: 112	RM: 112
GDU: 1430	GDU: 2600

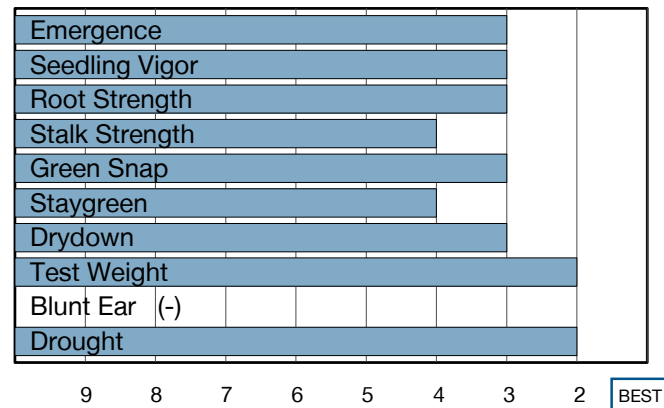


Brands Available: NK1188-D  
NK1188-AA

### Exciting Yield Potential and Agronomics Across Environments

- Attractive plant height and ear placement
- Improved test weight and grain quality
- Dependable drought tolerance

#### Agronomic Characteristics



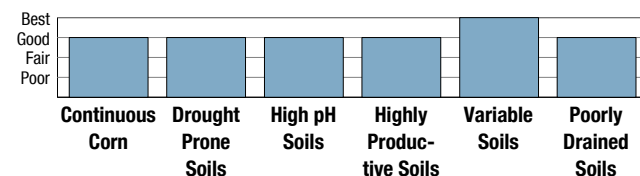
#### Disease Tolerance

Gray Leaf Spot	4
Northern Corn Leaf Blight	3
Goss's Wilt	6
Bacterial Leaf Streak	4
Southern Corn Leaf Blight	6
Eyespot	-
Anthraxnose Stalk Rot	3
Tar Spot	3
Fusarium Crown Rot	3
Common Rust	7
Southern Rust	4

#### Plant & Ear Characteristics

Plant Height	Ear Height	Ear Flex	Cob Color	Husk Cover	Leaf Type	Root Type
4	6	Semi-Flex	Pink	Long	Upright	Fibrous

#### Performance In...



#### Seeding Rates

Yield Environment	Target Seeds/Ac
300 bu/Ac	35,500
260 bu/Ac	33,500
220 bu/Ac	31,000
190 bu/Ac	29,000
150 bu/Ac	26,500

More info:



For more information or to view product performance data: [nkcorn.com](http://nkcorn.com) [nkfieldforged.com](http://nkfieldforged.com) @NKSeeds (800) 258-0521

1-9 Scale: 1 = Best, Tallest or Highest; 9 = Worst, Shortest or Lowest; (-) = Not Available.



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

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# CORN



## NK1333



RM: 113

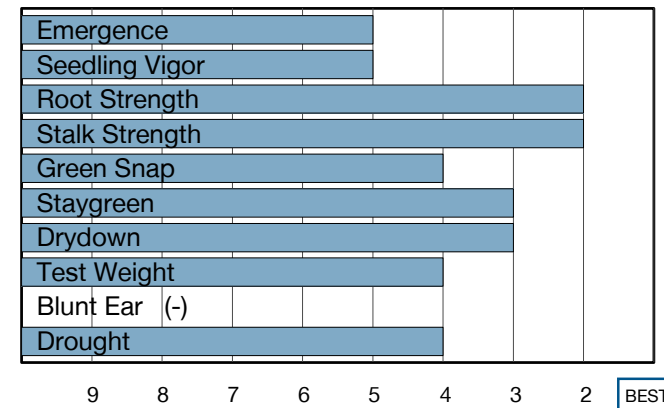
Silk	Black Layer
RM: 115	RM: 112
GDU: 1460	GDU: 2620

Brands Available: NK1333-AA<sup>NEW</sup>

### Broadly Adapted Hybrid with Outstanding Performance on Highly Productive Soils

- Excellent roots and stalks for season-long standability
- Very strong performance on variable to highly productive soils
- Solid disease tolerance against Tar Spot, Northern Corn Leaf Blight and Bacterial Leaf Streak

#### Agronomic Characteristics



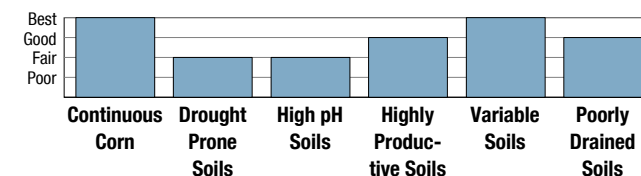
#### Disease Tolerance

Gray Leaf Spot	4
Northern Corn Leaf Blight	3
Goss's Wilt	5
Bacterial Leaf Streak	3
Southern Corn Leaf Blight	-
Eyespot	-
Anthraxnose Stalk Rot	4
Tar Spot	3
Fusarium Crown Rot	6
Common Rust	-
Southern Rust	3

#### Plant & Ear Characteristics

Plant Height	Ear Height	Ear Flex	Cob Color	Husk Cover	Leaf Type	Root Type
3	3	Semi-Flex	Red	Medium	Semi-Upright	Modified

#### Performance In...



#### Seeding Rates

Yield Environment	Target Seeds/Ac
300 bu/Ac	36,500
260 bu/Ac	35,000
220 bu/Ac	33,500
190 bu/Ac	32,000
150 bu/Ac	30,500

More info:



For more information or to view product performance data: [nkcorn.com](http://nkcorn.com) [nkfieldforged.com](http://nkfieldforged.com) @NKSeeds (800) 258-0521

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

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# CORN



## NK1523



Silk	Black Layer
RM: 114	RM: 116
GDU: 1455	GDU: 2665

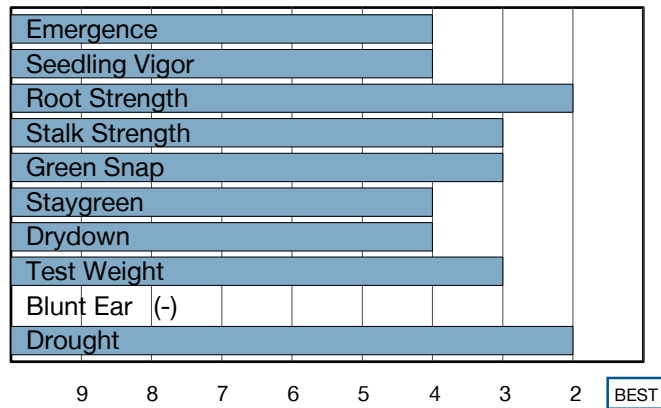
Brands Available: NK1523-V

### High-end Yield Potential with Agronomic Stability

- Consistent yield potential in a broadly adapted hybrid
- Strong and robust root structure
- Excellent yield potential with increased management



### Agronomic Characteristics



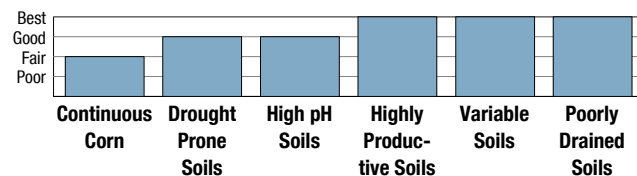
### Disease Tolerance

Gray Leaf Spot	4
Northern Corn Leaf Blight	2
Goss's Wilt	4
Bacterial Leaf Streak	3
Southern Corn Leaf Blight	3
Eyespot	-
Anthraxnose Stalk Rot	2
Tar Spot	2
Fusarium Crown Rot	4
Common Rust	7
Southern Rust	4

### Plant & Ear Characteristics

Plant Height	Ear Height	Ear Flex	Cob Color	Husk Cover	Leaf Type	Root Type
3	5	Semi-Flex	White	Long	Upright	Modified

### Performance In...



### Seeding Rates

Yield Environment	Target Seeds/Ac
300 bu/Ac	38,000
260 bu/Ac	35,000
220 bu/Ac	32,000
190 bu/Ac	29,000
150 bu/Ac	25,500

More info:



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1-9 Scale: 1 = Best, Tallest or Highest; 9 = Worst, Shortest or Lowest; (-) = Not Available.



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## Agronomy Spotlight



## Corn Insect B.t. Trait Reference Table - Above Ground Protection

				ABOVE-GROUND				BELOW-GROUND							
				% Refuge in Bag	Glyphosate Tolerant	Glufosinate Tolerant	VT Double PRO®	Herculex® I	YieldGard® Corn Borer	Agrisure Viptera®	Agrisure® CB	YieldGard VT Rootworm/RR2™	Herculex® RW	Agrisure® RW	Agrisure Duracade®
	• One effective mode of action														
	• • Two effective modes of action														
	Refer to the table on page 3 for information regarding efficacy against specific insect pests.														
BAYER CROP SCIENCE	VT Double PRO® corn		•		••										
	VT Double PRO® RIB Complete® corn blend	5%	•		••										
	Trecepta® corn		•		••			•							
	Trecepta® RIB Complete® corn blend	5%	•		••			•							
CORTEVA AGRI-SCIENCE	Herculex® I		•	•		•									
	Optimum® Intrasect®		•	•		•	•								
	Optimum® AcreMax®	5%	•	•		•	•								
	Optimum® Leptra®		•	•		•	•	•							
	Optimum® AcreMax® Leptra®	5%	•	•		•	•	•							
	PowerCore®		•	•	••	•									
PowerCore® Refuge Advanced	5%	•	•	••	•										
SYNGENTA	Agrisure® 3010		•	•					•						
	Agrisure® 3120 E-Z Refuge®	5%	•			•			•						
	Agrisure Viptera® 3110 or 3110A		•	•				•	•						
	Agrisure Viptera® 3220 E-Z Refuge®	5%	•			•		•	•						
	Agrisure Viptera® 3220A E-Z Refuge®	5%	•			•		•	•						
	Agrisure Viptera® 3330 E-Z Refuge®	5%	•			••			•	•					

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# Corn Insect B.t. Trait Reference Table - Above and Below Ground Protection

		ABOVE-GROUND							BELOW-GROUND				
		% Refuge in Bag	Glyphosate Tolerant	Glufosinate Tolerant	VT Double PRO®	Herculex® I	YieldGard® Corn Borer	Agrisure Viptera®	Agrisure® CB	YieldGard VT Rootworm/RR2™	Herculex® RW	Agrisure® RW	Agrisure Duracade®
BAYER CROP SCIENCE	VT Triple PRO® corn		•		••				•				
	VT Triple PRO® RIB Complete® corn blend	10%	•		••				•				
	SmartStax® corn		•	•	••	•			•	•			
	SmartStax® RIB Complete® corn blend	5%	•	•	••	•			•	•			
	SmartStax® PRO corn blend		•	•	••	•			•	•			•
	SmartStax® PRO RIB Complete brand blend	5%	•	•	••	•			•	•			•
CORTEVA AGRISCIENCE	Optimum® IntraSect® XTreme		•	•		•	•			•	•		
	Optimum® AcreMax® XTreme	5%	•	•		•	•			•	•		
	Qrome®*	5%	•	•		•	•			•	•		
	SmartStax®		•	•	••	•			•	•			
	SmartStax® Refuge Advanced	5%	•	•	••	•			•	•			
	Herculex® XTRA		•	•		•				•			
	Optimum® TRIssect®		•	•		•					•		
	Optimum® IntraSect® Xtra		•	•		•	•			•			
	Optimum® AcreMax® Xtra	10%	•	•		•	•			•			
	Optimum® IntraSect® TRIssect®		•	•		•	•				•		
	Optimum® AcreMax® TRIssect®	10%	•	•		•	•				•		
SYNGENTA	Agrisure® 3000 GT		•	•				•			•		
	Agrisure® 3122 E-Z Refuge®	5%	•			•				•	•		
	Agrisure Viptera® 3111 or 3111A		•	•			•	•			•		
	Agrisure Duracade® 5122 E-Z Refuge®	5%	•			•				•	•		
	Agrisure Duracade® 5122A E-Z Refuge®	5%	•			•				•	•		
	Agrisure Duracade® 5222 E-Z Refuge®	5%	•			•		•	•		•	•	
	Agrisure Duracade® 5222A E-Z Refuge®	5%	•			•		•	•		•	•	

\*Qrome contains event DP4114 which is a molecular stack of the insect protection genes in Herculex® I and Herculex® RW.

# Corn Insect B.t. Trait Reference Table

	ABOVE-GROUND					BELOW-GROUND				
	VT Double PRO® corn	Herculex® I	YieldGard® Corn Borer	Agrisure Viptera®	Agrisure® CB	YieldGard VT Rootworm/RR2™	Herculex® RW	Agrisure® RW	Agrisure Duracade®	RNAi (No Trade Name)
European corn borer	**	*	*		*					
Southwestern corn borer	**	*	*	*	*					
Fall armyworm	**	*		*						
Corn earworm <sup>1,2</sup>	**			*						
Western bean cutworm				*						
Black cutworm		*		*						
Western corn rootworm						*	*	*	*	*
Northern corn rootworm						*	*	*	*	*
Mexican corn rootworm						*	*	*	*	*

\*\*Dual-mode activity \*Single-mode activity Mode of action equals control of pest.

<sup>1</sup>Pioneer claims suppression of corn earworm with Herculex I® technology. Syngenta claims suppression of corn earworm with Bt11.

<sup>2</sup>Cry1A.105 and Cry2Ab2 from B.t. controls or suppresses corn earworm.

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SmartStax® PRO corn products will be commercially available for the 2022 growing season.

ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. B.t. products may not yet be registered in all states. Check with your seed brand representative for the registration status in your state.

IMPORTANT IRM INFORMATION: RIB Complete® corn blend products do not require the planting of a structured refuge except in the Cotton-Growing Area where corn earworm is a significant pest. See the IRM/Grower Guide for additional information. Always read and follow IRM requirements.

Performance may vary, from location to location and from year to year, as local growing, soil and weather conditions may vary. Growers should evaluate data from multiple locations and years whenever possible and should consider the impacts of these conditions on the grower's fields.

Roundup Ready® 2 Technology contains genes that confer tolerance to glyphosate. Glyphosate will kill crops that are not tolerant to glyphosate. Insect control technology provided by Vip3A is utilized under license from Syngenta Crop Protection AG. Herculex® is a registered trademark of Dow AgroSciences LLC. Agrisure Viptera® is a registered trademark of a Syngenta group company. LibertyLink® and the Water Droplet Design® is a trademark of BASF Corporation. Respect the Refuge and Corn Design® and Respect the Refuge® are registered trademarks of National Corn Growers Association. Bayer, Bayer Cross, RIB Complete®, Roundup Ready 2 Technology and Design™, Roundup Ready®, SmartStax®, Trecepta®, VT Double PRO® and VT Triple PRO® are trademarks of Bayer Group. All other trademarks are the property of their respective owners. ©2021 Bayer Group. All rights reserved. 1014\_S1





# Your Genetics, Protected from *Pythium*.

## A New Standard: Vayantis

*Pythium* poses a huge threat for corn growers, causing more damage than *Fusarium* and *Rhizoctonia* seedling diseases combined. **Vayantis® fungicide seed treatment**, a novel mode of action that has no cross resistance with existing *Pythium* chemistries, represents the most powerful compound ever developed to protect corn seedlings from *Pythium*, allowing your genetics to shine. It provides substantially better protection than older technologies and offers a highly effective overlapping mode of action (MOA) to combat all known U.S. *Pythium* species.

### Vayantis provides:

- The most robust *Pythium* protection ever provided by a seed treatment, compared to existing protection molecules metalaxyl or ethaboxam
- Increased seed germination, emergence and improved plant stand uniformity across variable soil types and environmental conditions
- Reliable resistance management due to overlapping effective MOAs
- Long-lasting activity for efficient seedling protection
- Outstanding seed safety and compatibility with other products
- Excellent bolt on protection to your corn genetics, allowing more yield potential to be realized

## No Amount of *Pythium* is Safe

You know that *Pythium* poses a great risk for your customers. More than 50 known *Pythium* species commonly infect U.S. soil, and the problem is fueled by growing trends such as planting earlier into cool wet soil, reduced and no-till situations, and increased use of cover crops. *Pythium* can also be unpredictable, as environmental conditions drive which *Pythium* species are troublesome in any given year.

You can't prevent *Pythium*, but you can plan for it. Vayantis provides the added security of knowing your genetics are protected, and that means better returns and more yield potential for your customers.

### *Pythium* causes:

- Reduced plant stands
- Stunting
- Under-developed roots
- Damping-off
- Lower plant populations
- **And ultimately, reduced yield potential**



## Higher Potential Yield through Superior Disease Protection

By protecting seedlings from costly *Pythium* damage, field trials show that Vayantis can increase your customers' potential yield by an average of 2 bu/A on the broad acre and 4 to 6 bu/A in moderate to high pressure situations. Protect what you've invested in helping build the best seed genetics with a yield difference that has the potential to put money back in your customers' pockets.

### Average Yield Difference



>10% & >20% stand loss data series (dark brown & light brown bars) describe Check Trt stand loss associated with increasing *Pythium* spp. Pressure. PCBX trts on top of Base; ETBO trt = ETBO 0.0141 + MLX 0.005 + SDX 0.0125 + FDL 0.0063 + CYNT 0.25 + TMX 0.25. Base = SDX 0.0125 mg ai/seed + AZ 0.0025 + TBZ 0.05 + MFX 0.005 + FDL 0.0063 + CYNT 0.25 + TMX 0.25. Syngenta field trials in IA, IL, IN, KY, MI, MN, NE, OH and WI; 2015-2017

For more information about Vayantis, visit [SyngentaUS.com/Vayantis](http://SyngentaUS.com/Vayantis).

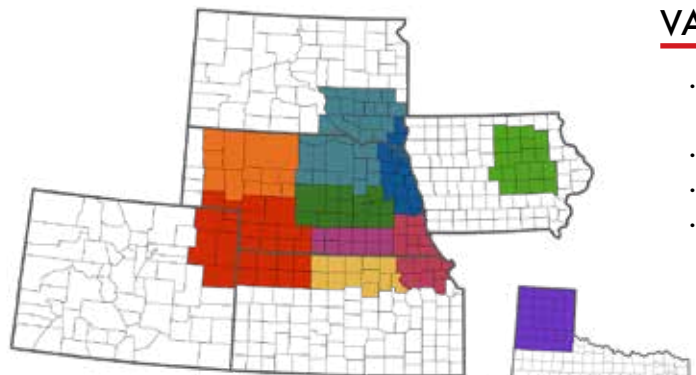


<sup>1</sup> Mueller, D.S. et al., 2016. Corn yield loss estimates due to diseases in the United States and Ontario, Canada from 2012 to 2015. Plant Health Progress 17:211-222. <https://doi.org/10.1094/PHP-RS-16-0030>. Harvested corn acres from USDA and OMAFRA.  
 Syngenta hereby disclaims any liability for Third Party websites referenced herein.  
 All photos are either the property of Syngenta or are used with permission. Trials reflect treatment rates and mixing partners commonly recommended in the marketplace. Performance assessments are based upon results or analysis of public information, field observations and/or internal Syngenta evaluations. Product performance assumes disease presence.  
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 GS 6184\_5\_1 SLC 13069A 11-2020

# SOYBEAN SEED



XtendFlex<sup>®</sup> and Enlist E3<sup>®</sup>



**REGION KEY**

Whitetail	Homestead
Platte Valley	River Front
Niobrara	Sunflower
Cattlemen	Iowa
Chimney Rock	Texas

**PLACEMENT RECOMMENDATION**

Seed Region

**DISEASE & PEST RESISTANCE**

Brown Stem Rot	S
PRR Resistance	Rps1c
PRR Field Tolerance	
Soybean Cyst Nematode	R
Southern Stem Canker	N/A
Sudden Death Syndrome	
White Mold	

*Rating Scale*  
 5 = Excellent    3 = Good    2 = Fair  
 4 = Very Good    2.5 = Average    1 = Poor

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**VARIETY HIGHLIGHTS**

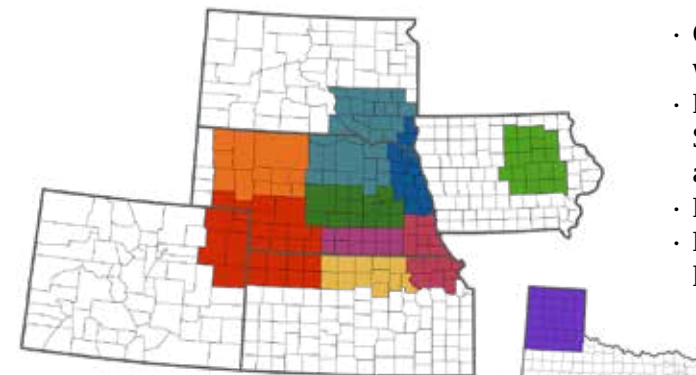
- Solid agronomic package including SDS and IDC tolerance with top end yield
- Will respond to high yield environments
- Adapted to no-till
- Good on high pH soils

**VARIETY AGRONOMICS**

Maturity	2.2
Emergence	
Plant Height	Tall
Plant Type	Medium Bush 2.0
Growth Habit	Indeterminate
Standability	
Iron Deficiency Chlorosis	
No-till Adaptability	
Narrow Row	
Chloride Sensitivity	Includer
Flower Color	Purple
Pubescence Color	Gray
Hilum Color	Imperfect Black
Pod Color	Brown
Oil Content @ 13%	22.8
Protein Content @ 13%	38.3

**HERBICIDE SENSITIVITY**

Metribuzin Sensitivity	Acceptable
PPO Sensitivity	Acceptable



**REGION KEY**

Whitetail	Homestead
Platte Valley	River Front
Niobrara	Sunflower
Cattlemen	Iowa
Chimney Rock	Texas

**PLACEMENT RECOMMENDATION**

Seed Region

**DISEASE & PEST RESISTANCE**

Brown Stem Rot	R
PRR Resistance	S
PRR Field Tolerance	
Soybean Cyst Nematode	R
Southern Stem Canker	N/A
Sudden Death Syndrome	
White Mold	

*Rating Scale*  
 5 = Excellent    3 = Good    2 = Fair  
 4 = Very Good    2.5 = Average    1 = Poor

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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 Bayer Technology Use Guide for recommended weed control programs.

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**VARIETY HIGHLIGHTS**

- Outstanding yield potential across product segments west to east
- Medium to medium-tall variety that will branch. Standability and PRR field tolerance are both above average
- Is an excluder with IDC rating of 5
- Manage placement around historic white mold or SDS high pressure fields

**VARIETY AGRONOMICS**

Maturity	2.2
Emergence	
Plant Height	Medium
Plant Type	Medium Bush 2.0
Growth Habit	Indeterminate
Standability	
Iron Deficiency Chlorosis	
No-till Adaptability	
Narrow Row	
Chloride Sensitivity	Excluder
Flower Color	Purple
Pubescence Color	Light
Hilum Color	Black
Pod Color	Tan
Oil Content @ 13%	N/A
Protein Content @ 13%	N/A

**HERBICIDE SENSITIVITY**

Metribuzin Sensitivity	N/A
PPO Sensitivity	Caution



**VARIETY HIGHLIGHTS**

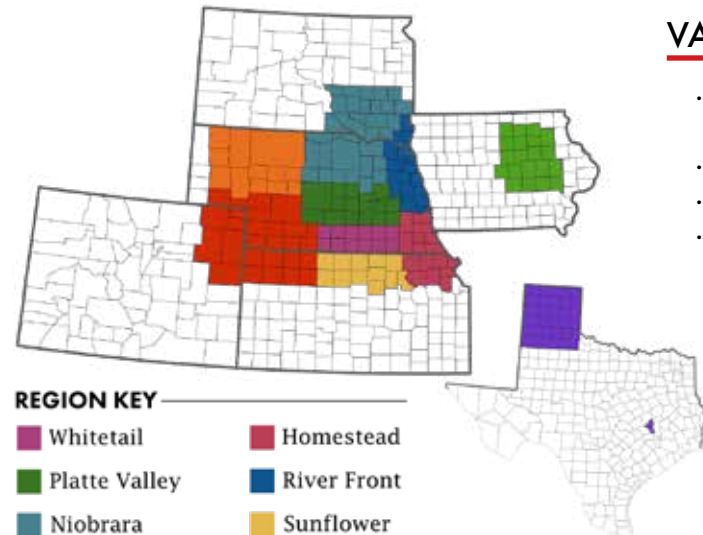
- Medium tall to tall soybean that has above average standability
- IDC and SDS tolerances are very good
- Very good to excellent on high pH soils
- White mold tolerance is average

**VARIETY AGRONOMICS**

Maturity	2.4
Emergence	🍷🍷🍷🍷🍷
Plant Height	Medium Tall
Plant Type	Medium Bush 2.0
Growth Habit	Indeterminate
Standability	🍷🍷🍷🍷🍷
Iron Deficiency Chlorosis	🍷🍷🍷🍷🍷
No-till Adaptability	🍷🍷🍷🍷🍷
Narrow Row	🍷🍷🍷🍷🍷
Chloride Sensitivity	Includer
Flower Color	Purple
Pubescence Color	Gray
Hilum Color	Buff
Pod Color	Brown
Oil Content @ 13%	21.63
Protein Content @ 13%	41.75

**HERBICIDE SENSITIVITY**

Metribuzin Sensitivity	Acceptable
PPO Sensitivity	Acceptable



**REGION KEY**

Whitetail	Homestead
Platte Valley	River Front
Niobrara	Sunflower
Cattlemen	Iowa
Chimney Rock	Texas

**PLACEMENT RECOMMENDATION**



**DISEASE & PEST RESISTANCE**

Brown Stem Rot	R
PRR Resistance	S
PRR Field Tolerance	🍷🍷🍷🍷🍷
Soybean Cyst Nematode	R
Southern Stem Canker	N/A
Sudden Death Syndrome	🍷🍷🍷🍷🍷
White Mold	🍷🍷🍷🍷🍷

*Rating Scale*  
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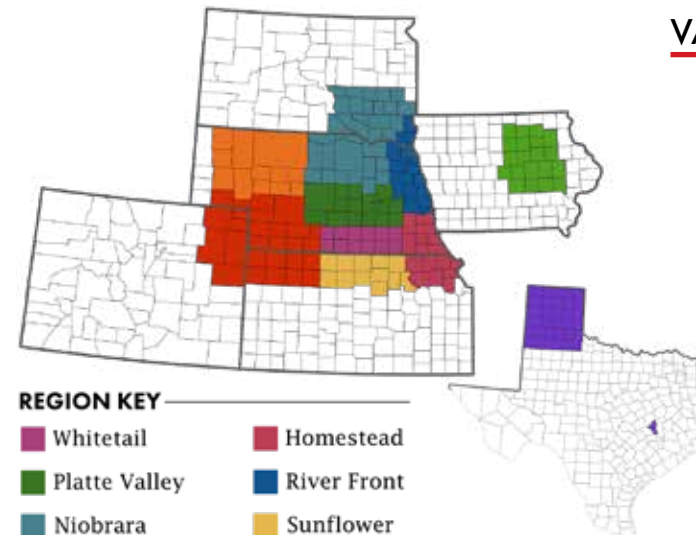


**VARIETY HIGHLIGHTS**

- Solid performance across yield environments
- Narrow and wide row option
- Irrigated and dryland option
- Has very good standability
- Above average on high pH soils

**VARIETY AGRONOMICS**

Maturity	2.6
Emergence	🍷🍷🍷🍷🍷
Plant Height	Medium Tall
Plant Type	Medium Bush 2.0
Growth Habit	Indeterminate
Standability	🍷🍷🍷🍷🍷
Iron Deficiency Chlorosis	🍷🍷🍷🍷🍷
No-till Adaptability	🍷🍷🍷🍷🍷
Narrow Row	🍷🍷🍷🍷🍷
Chloride Sensitivity	N/A
Flower Color	Purple
Pubescence Color	Gray
Hilum Color	Gray
Pod Color	Tan
Oil Content @ 13%	N/A
Protein Content @ 13%	N/A



**REGION KEY**

Whitetail	Homestead
Platte Valley	River Front
Niobrara	Sunflower
Cattlemen	Iowa
Chimney Rock	Texas

**PLACEMENT RECOMMENDATION**



**DISEASE & PEST RESISTANCE**

Brown Stem Rot	MR-MS
PRR Resistance	Rps1c
PRR Field Tolerance	🍷🍷🍷🍷🍷
Soybean Cyst Nematode	R
Southern Stem Canker	R
Sudden Death Syndrome	🍷🍷🍷🍷🍷
White Mold	🍷🍷🍷🍷🍷

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**VARIETY HIGHLIGHTS**

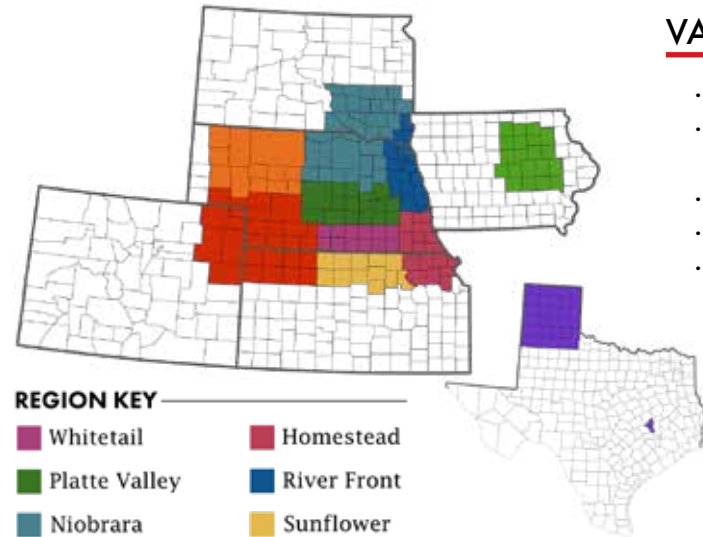
- Medium-tall variety with above average standability
- Rps1c variety with very good PRR field tolerance and white mold tolerance
- Chloride excluder
- Manage on historically high SDS fields
- Good on high pH soils

**VARIETY AGRONOMICS**

Maturity	2.7
Emergence	🌱🌱🌱🌱🌱
Plant Height	Medium Tall
Plant Type	Medium Bush 2.0
Growth Habit	Indeterminate
Standability	🌾🌾🌾🌾🌾
Iron Deficiency Chlorosis	🌱🌱🌱🌱🌱
No-till Adaptability	🌱🌱🌱🌱🌱
Narrow Row	🌱🌱🌱🌱🌱
Chloride Sensitivity	Excluder
Flower Color	Purple
Pubescence Color	Gray
Hilum Color	Gray
Pod Color	Tan
Oil Content @ 13%	N/A
Protein Content @ 13%	N/A

**HERBICIDE SENSITIVITY**

Metribuzin Sensitivity	Acceptable
PPO Sensitivity	Acceptable



**REGION KEY**

Whitetail	Homestead
Platte Valley	River Front
Niobrara	Sunflower
Cattlemen	Iowa
Chimney Rock	Texas

**PLACEMENT RECOMMENDATION**

Seed Region

**DISEASE & PEST RESISTANCE**

Brown Stem Rot	R
PRR Resistance	Rps1c
PRR Field Tolerance	🌱🌱🌱🌱🌱
Soybean Cyst Nematode	R
Southern Stem Canker	N/A
Sudden Death Syndrome	🌱🌱🌱🌱🌱
White Mold	🌱🌱🌱🌱🌱

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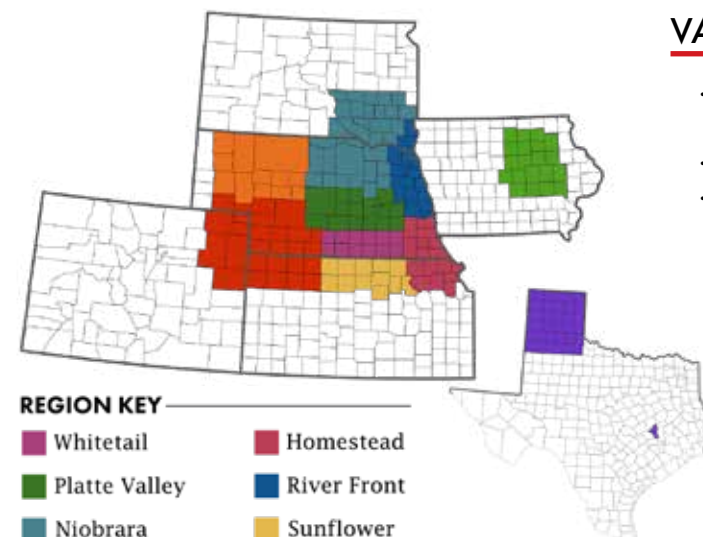


**VARIETY HIGHLIGHTS**

- Attractive, medium-tall variety with very good standability
- Very good PRR field tolerance
- Manage placement on high pH or historically high SDS pressure fields

**VARIETY AGRONOMICS**

Maturity	2.9
Emergence	🌱🌱🌱🌱🌱
Plant Height	Medium Tall
Plant Type	Medium Bush 2.0
Growth Habit	Indeterminate
Standability	🌾🌾🌾🌾🌾
Iron Deficiency Chlorosis	🌱🌱🌱🌱🌱
No-till Adaptability	🌱🌱🌱🌱🌱
Narrow Row	🌱🌱🌱🌱🌱
Chloride Sensitivity	Includer
Flower Color	Purple
Pubescence Color	Gray
Hilum Color	Imperfect Black
Pod Color	Buff
Oil Content @ 13%	22.10
Protein Content @ 13%	39.48



**REGION KEY**

Whitetail	Homestead
Platte Valley	River Front
Niobrara	Sunflower
Cattlemen	Iowa
Chimney Rock	Texas

**PLACEMENT RECOMMENDATION**

Seed Region

**DISEASE & PEST RESISTANCE**

Brown Stem Rot	N/A
PRR Resistance	Rps1c
PRR Field Tolerance	🌱🌱🌱🌱🌱
Soybean Cyst Nematode	R
Southern Stem Canker	N/A
Sudden Death Syndrome	🌱🌱🌱🌱🌱
White Mold	🌱🌱🌱🌱🌱

*Rating Scale*  
 5 = Excellent    3 = Good    2 = Fair  
 4 = Very Good    2.5 = Average    1 = Poor

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**VARIETY HIGHLIGHTS**

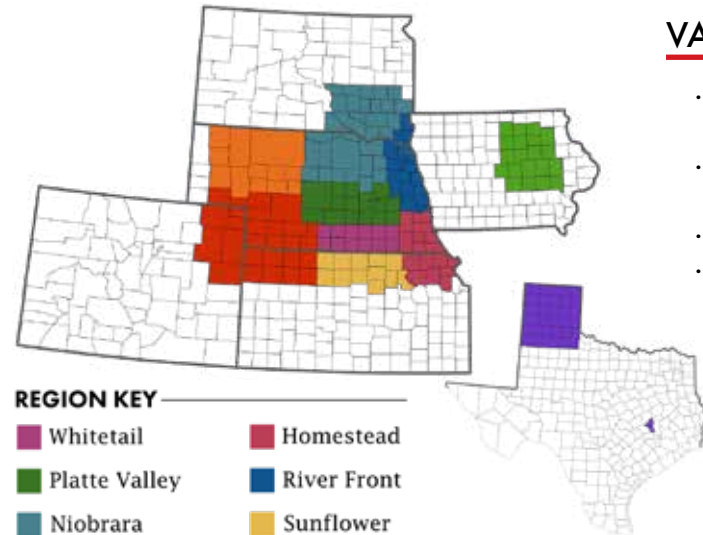
- Very good emergence and good standability with this tall plant
- Good white mold resistance and very good tolerance to SDS
- Responds well in all yield environments
- Good on high pH fields

**VARIETY AGRONOMICS**

Maturity	3.0
Emergence	🌱🌱🌱🌱🌱
Plant Height	Tall
Plant Type	Medium Bush 2.0
Growth Habit	Indeterminate
Standability	🌾🌾🌾🌾🌾
Iron Deficiency Chlorosis	🌱🌱🌱🌱🌱
No-till Adaptability	🌱🌱🌱🌱🌱
Narrow Row	🌱🌱🌱🌱🌱
Chloride Sensitivity	Includer
Flower Color	Purple
Pubescence Color	Gray
Hilum Color	Imperfect Black
Pod Color	Buff
Oil Content @ 13%	22.10
Protein Content @ 13%	39.48

**HERBICIDE SENSITIVITY**

Metribuzin Sensitivity	Acceptable
PPO Sensitivity	Acceptable



**REGION KEY**

Whitetail	Homestead
Platte Valley	River Front
Niobrara	Sunflower
Cattlemen	Iowa
Chimney Rock	Texas

**PLACEMENT RECOMMENDATION**

Seed Region

**DISEASE & PEST RESISTANCE**

Brown Stem Rot	R
PRR Resistance	Rps1c
PRR Field Tolerance	🌱🌱🌱🌱🌱
Soybean Cyst Nematode	R
Southern Stem Canker	R
Sudden Death Syndrome	🌱🌱🌱🌱🌱
White Mold	🌱🌱🌱🌱🌱

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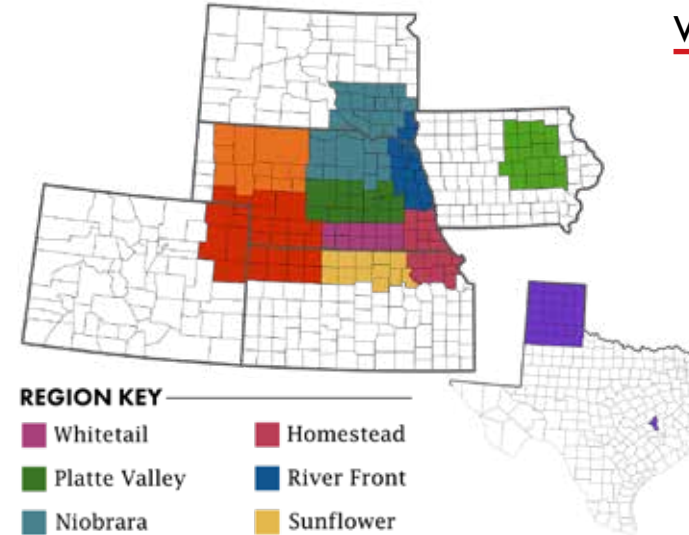


**VARIETY HIGHLIGHTS**

- Super strong appearance and high yield potential
- Excellent emergence and standability with a medium structured plant
- Use a seed treatment for best early performance
- Good on high pH soils

**VARIETY AGRONOMICS**

Maturity	3.2
Emergence	🌱🌱🌱🌱🌱
Plant Height	Medium
Plant Type	Medium Bush 2.0
Growth Habit	Indeterminate
Standability	🌾🌾🌾🌾🌾
Iron Deficiency Chlorosis	🌱🌱🌱🌱🌱
No-till Adaptability	🌱🌱🌱🌱🌱
Narrow Row	🌱🌱🌱🌱🌱
Chloride Sensitivity	Includer
Flower Color	Purple
Pubescence Color	Gray
Hilum Color	Imperfect Black
Pod Color	Tan
Oil Content @ 13%	22
Protein Content @ 13%	38.3



**REGION KEY**

Whitetail	Homestead
Platte Valley	River Front
Niobrara	Sunflower
Cattlemen	Iowa
Chimney Rock	Texas

**PLACEMENT RECOMMENDATION**

Seed Region

**DISEASE & PEST RESISTANCE**

Brown Stem Rot	R
PRR Resistance	S
PRR Field Tolerance	🌱🌱🌱🌱🌱
Soybean Cyst Nematode	R
Southern Stem Canker	R
Sudden Death Syndrome	🌱🌱🌱🌱🌱
White Mold	🌱🌱🌱🌱🌱

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**VARIETY HIGHLIGHTS**

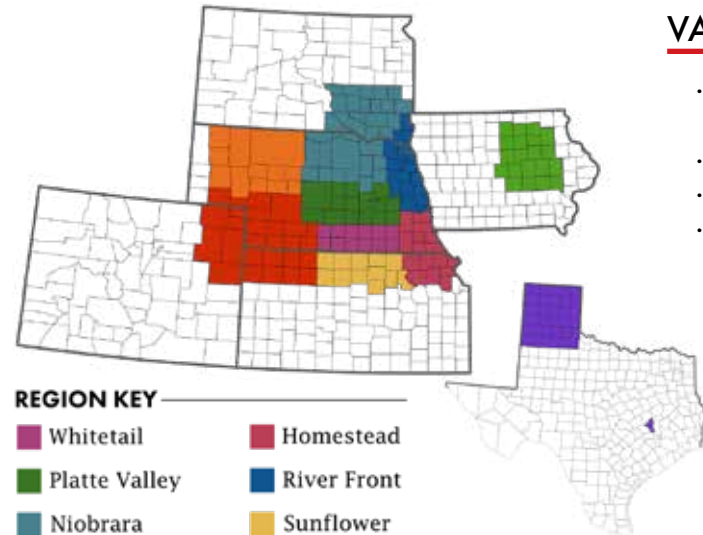
- Excellent emergence and very good standability with a medium tall plant height
- Very strong agronomic package
- Works in narrow and wide rows
- Excellent choice on high pH fields

**VARIETY AGRONOMICS**

Maturity	3.4
Emergence	🌱🌱🌱🌱🌱
Plant Height	Medium Tall
Plant Type	Medium Bush 2.0
Growth Habit	Indeterminate
Standability	🌾🌾🌾🌾🌾
Iron Deficiency Chlorosis	🌱🌱🌱🌱🌱
No-till Adaptability	🌱🌱🌱🌱🌱
Narrow Row	🌱🌱🌱🌱🌱
Chloride Sensitivity	Includer
Flower Color	Purple
Pubescence Color	Gray
Hilum Color	Imperfect Black
Pod Color	Brown
Oil Content @ 13%	21.4
Protein Content @ 13%	39.2

**HERBICIDE SENSITIVITY**

Metribuzin Sensitivity	Acceptable
PPO Sensitivity	Sensitive



**REGION KEY**

Whitetail	Homestead
Platte Valley	River Front
Niobrara	Sunflower
Cattlemen	Iowa
Chimney Rock	Texas

**PLACEMENT RECOMMENDATION**

Seed Region

**DISEASE & PEST RESISTANCE**

Brown Stem Rot	R
PRR Resistance	Rps1c
PRR Field Tolerance	🌱🌱🌱🌱🌱
Soybean Cyst Nematode	R
Southern Stem Canker	R
Sudden Death Syndrome	🌱🌱🌱🌱🌱
White Mold	🌱🌱🌱🌱🌱

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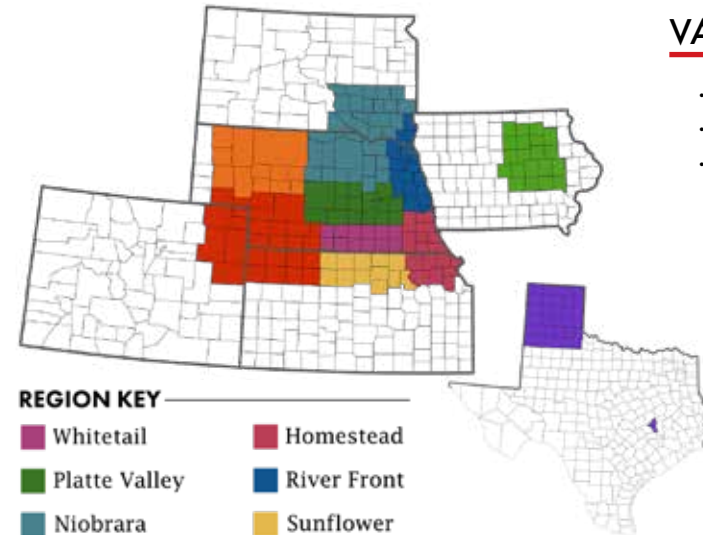


**VARIETY HIGHLIGHTS**

- Strong performance overall with outstanding yield
- Tall plant type with very good standability
- Good on high pH soils

**VARIETY AGRONOMICS**

Maturity	3.7
Emergence	🌱🌱🌱🌱🌱
Plant Height	Tall
Plant Type	Medium Bush 2.0
Growth Habit	Indeterminate
Standability	🌾🌾🌾🌾🌾
Iron Deficiency Chlorosis	🌱🌱🌱🌱🌱
No-till Adaptability	🌱🌱🌱🌱🌱
Narrow Row	🌱🌱🌱🌱🌱
Chloride Sensitivity	Includer
Flower Color	Purple
Pubescence Color	Light
Hilum Color	Black
Pod Color	Brown
Oil Content @ 13%	21.86
Protein Content @ 13%	41.21



**REGION KEY**

Whitetail	Homestead
Platte Valley	River Front
Niobrara	Sunflower
Cattlemen	Iowa
Chimney Rock	Texas

**PLACEMENT RECOMMENDATION**

Seed Region

**DISEASE & PEST RESISTANCE**

Brown Stem Rot	N/A
PRR Resistance	Rps1c
PRR Field Tolerance	🌱🌱🌱🌱🌱
Soybean Cyst Nematode	R
Southern Stem Canker	R
Sudden Death Syndrome	🌱🌱🌱🌱🌱
White Mold	🌱🌱🌱🌱🌱

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**VARIETY HIGHLIGHTS**

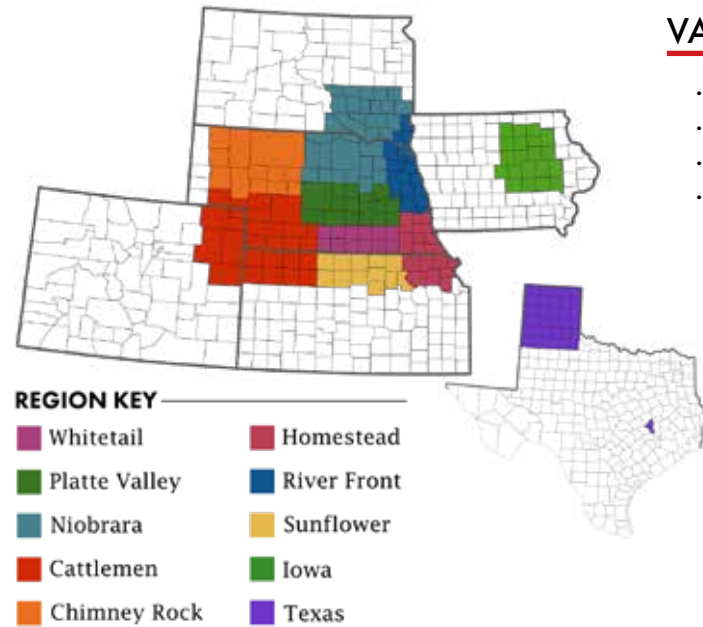
- Excellent disease package and solid agronomically
- SR tolerant
- Dryland and irrigated option in Kansas
- Manage placement on high pH or historically high SDS pressure fields

**VARIETY AGRONOMICS**

Maturity	3.9
Emergence	
Plant Height	Tall
Plant Type	Medium Bush 2.0
Growth Habit	Indeterminate
Standability	
Iron Deficiency Chlorosis	
No-till Adaptability	
Narrow Row	
Chloride Sensitivity	Includer
Flower Color	Purple
Pubescence Color	Gray
Hilum Color	Imperfect Black
Pod Color	Tan
Oil Content @ 13%	N/A
Protein Content @ 13%	N/A

**HERBICIDE SENSITIVITY**

Metribuzin Sensitivity	Caution
PPO Sensitivity	Sensitive



**REGION KEY**

Whitetail	Homestead
Platte Valley	River Front
Niobrara	Sunflower
Cattlemen	Iowa
Chimney Rock	Texas

**PLACEMENT RECOMMENDATION**

Seed Region

**DISEASE & PEST RESISTANCE**

Brown Stem Rot	N/A
PRR Resistance	Rps1c
PRR Field Tolerance	
Soybean Cyst Nematode	R
Southern Stem Canker	R
Sudden Death Syndrome	
White Mold	

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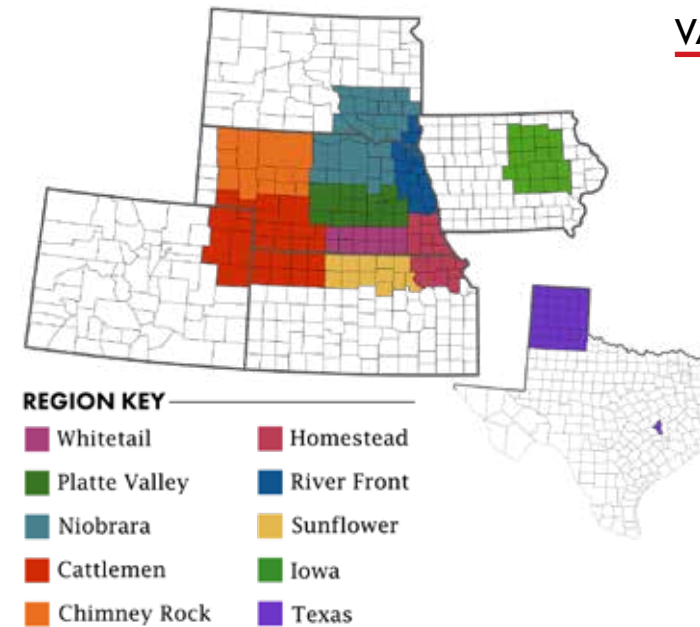


**VARIETY HIGHLIGHTS**

- Strong performance in Kansas, southern Nebraska, and Southern Iowa
- Tall plant type with solid pod load up and down the plant
- Great phenotypic scores
- Above average SDS tolerance

**VARIETY AGRONOMICS**

Maturity	4.0
Emergence	
Plant Height	Medium-Tall
Plant Type	Medium Bush 2.0
Growth Habit	Indeterminate
Standability	
Iron Deficiency Chlorosis	
No-till Adaptability	
Narrow Row	
Chloride Sensitivity	Excluder
Flower Color	Purple
Pubescence Color	Gray
Hilum Color	Imperfect Black
Pod Color	Brown
Oil Content @ 13%	22.19
Protein Content @ 13%	39.42



**REGION KEY**

Whitetail	Homestead
Platte Valley	River Front
Niobrara	Sunflower
Cattlemen	Iowa
Chimney Rock	Texas

**PLACEMENT RECOMMENDATION**

Seed Region

**DISEASE & PEST RESISTANCE**

Brown Stem Rot	N/A
PRR Resistance	Rps1c
PRR Field Tolerance	
Soybean Cyst Nematode	R
Southern Stem Canker	R
Sudden Death Syndrome	
White Mold	

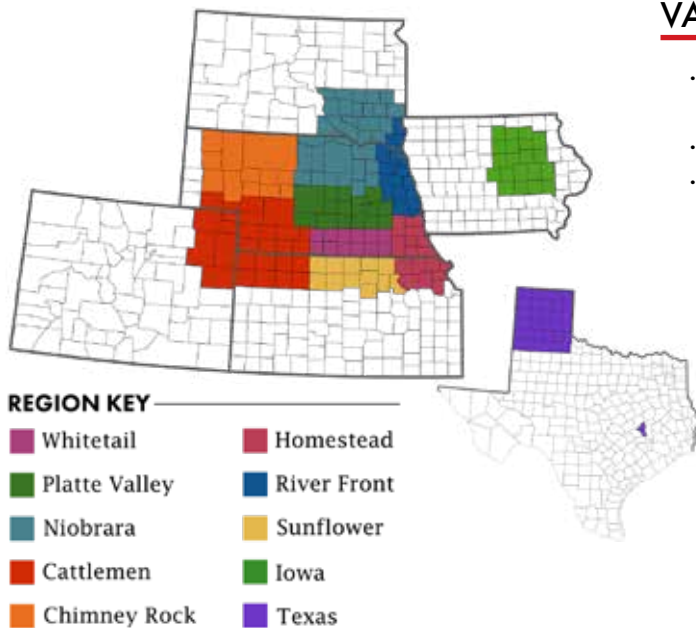
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**PLACEMENT RECOMMENDATION**

Seed Region

**DISEASE & PEST RESISTANCE**

Brown Stem Rot	R
PRR Resistance	Rps1a3a
PRR Field Tolerance	
Soybean Cyst Nematode	Pi 88.788
Southern Stem Canker	R
Sudden Death Syndrome	
White Mold	

**VARIETY HIGHLIGHTS**

- Medium-Tall to Tall plant height brings very good standability
- Great package with very good IDC and white mold
- Strong performance in all yield environments and management practices

**VARIETY AGRONOMICS**

Maturity	2.1
Emergence	
Plant Height	Medium-Tall
Plant Type	Medium Bush 2.0
Growth Habit	Indeterminate
Standability	
Iron Deficiency Chlorosis	
No-till Adaptability	
Narrow Row	
Chloride Sensitivity	Includer
Flower Color	Purple
Pubescence Color	Gray
Hilum Color	Buff
Pod Color	Brown
Oil Content @ 13%	N/A
Protein Content @ 13%	N/A

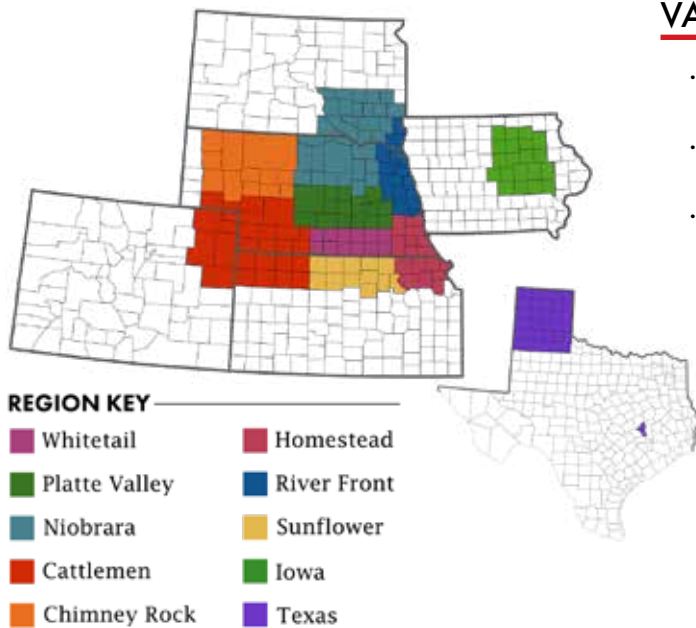
**HERBICIDE SENSITIVITY**

Metribuzin Sensitivity	Acceptable
PPO Sensitivity	Acceptable

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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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**PLACEMENT RECOMMENDATION**

Seed Region

**DISEASE & PEST RESISTANCE**

Brown Stem Rot	NG
PRR Resistance	Rps1cH3a
PRR Field Tolerance	
Soybean Cyst Nematode	Pi 88.788
Southern Stem Canker	R
Sudden Death Syndrome	
White Mold	

**VARIETY HIGHLIGHTS**

- Great plant style that lends itself to all soil types and geographies
- Good PRR package, SDS, IDS, and white mold tolerance
- Yield leader in this RM

**VARIETY AGRONOMICS**

Maturity	2.2
Emergence	
Plant Height	Medium+
Plant Type	Medium Bush 2.0
Growth Habit	Indeterminate
Standability	
Iron Deficiency Chlorosis	
No-till Adaptability	
Narrow Row	
Chloride Sensitivity	Includer
Flower Color	White
Pubescence Color	Gray
Hilum Color	Buff
Pod Color	Tan
Oil Content @ 13%	N/A
Protein Content @ 13%	N/A

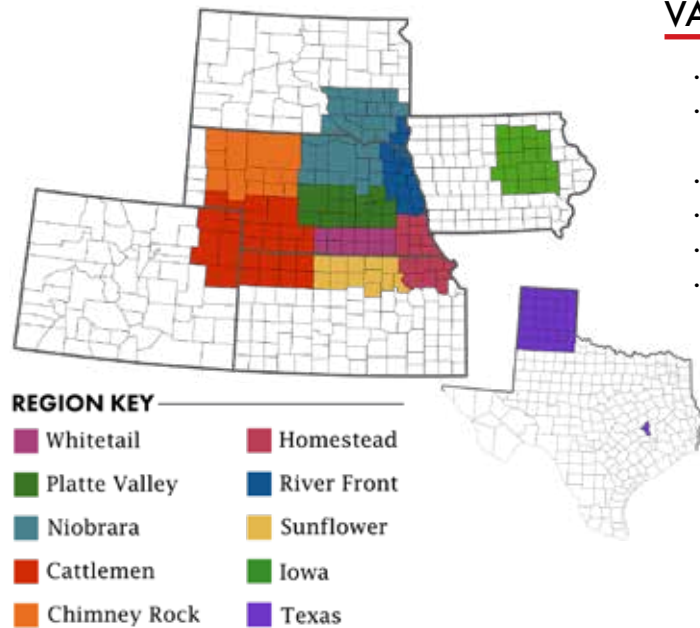
**HERBICIDE SENSITIVITY**

Metribuzin Sensitivity	Acceptable
PPO Sensitivity	Acceptable

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**VARIETY HIGHLIGHTS**

- Medium, semi-bush plant
- A great defensive package and plant style support a broad use
- Moves north of maturity zone
- Dryland and irrigated option
- Narrow or wide row option
- Excellent on high pH soils

**VARIETY AGRONOMICS**

Maturity	2.4
Emergence	🍷🍷🍷🍷🍷
Plant Height	Medium+
Plant Type	Medium Bush 2.0
Growth Habit	Indeterminate
Standability	🍷🍷🍷🍷🍷
Iron Deficiency Chlorosis	🍷🍷🍷🍷🍷
No-till Adaptability	🍷🍷🍷🍷🍷
Narrow Row	🍷🍷🍷🍷🍷
Chloride Sensitivity	N/A
Flower Color	Purple
Pubescence Color	Gray
Hilum Color	Buff
Pod Color	Tan
Oil Content @ 13%	N/A
Protein Content @ 13%	N/A

**HERBICIDE SENSITIVITY**

Metribuzin Sensitivity	Acceptable
PPO Sensitivity	Acceptable

**PLACEMENT RECOMMENDATION**



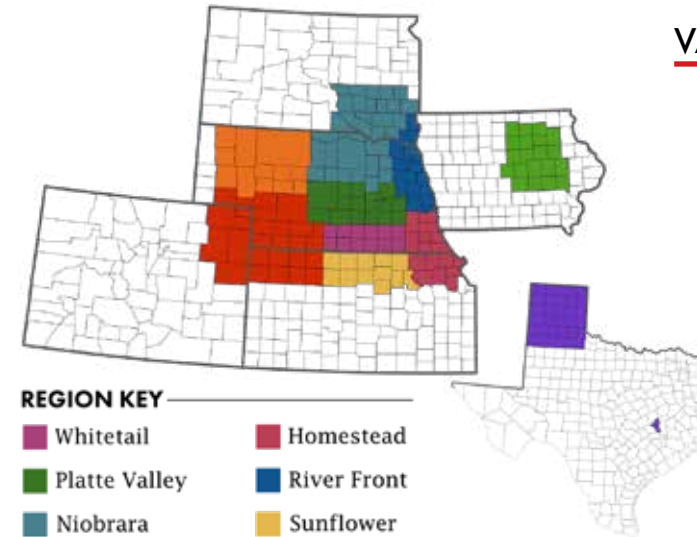
**DISEASE & PEST RESISTANCE**

Brown Stem Rot	R
PRR Resistance	Rps1k
PRR Field Tolerance	🍷🍷🍷🍷🍷
Soybean Cyst Nematode	R
Southern Stem Canker	N/A
Sudden Death Syndrome	🍷🍷🍷🍷🍷
White Mold	🍷🍷🍷🍷🍷

*Rating Scale*  
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**VARIETY HIGHLIGHTS**

- Unique plant style that brings significant height and good standability
- Manage on high pH soils
- Above average white mold tolerance

**VARIETY AGRONOMICS**

Maturity	2.6
Emergence	🍷🍷🍷🍷🍷
Plant Height	Medium Tall
Plant Type	Medium Bush 2.0
Growth Habit	Indeterminate
Standability	🍷🍷🍷🍷🍷
Iron Deficiency Chlorosis	🍷🍷🍷🍷🍷
No-till Adaptability	🍷🍷🍷🍷🍷
Narrow Row	🍷🍷🍷🍷🍷
Chloride Sensitivity	Includer
Flower Color	Purple
Pubescence Color	Gray
Hilum Color	Buff
Pod Color	Brown
Oil Content @ 13%	N/A
Protein Content @ 13%	N/A

**PLACEMENT RECOMMENDATION**



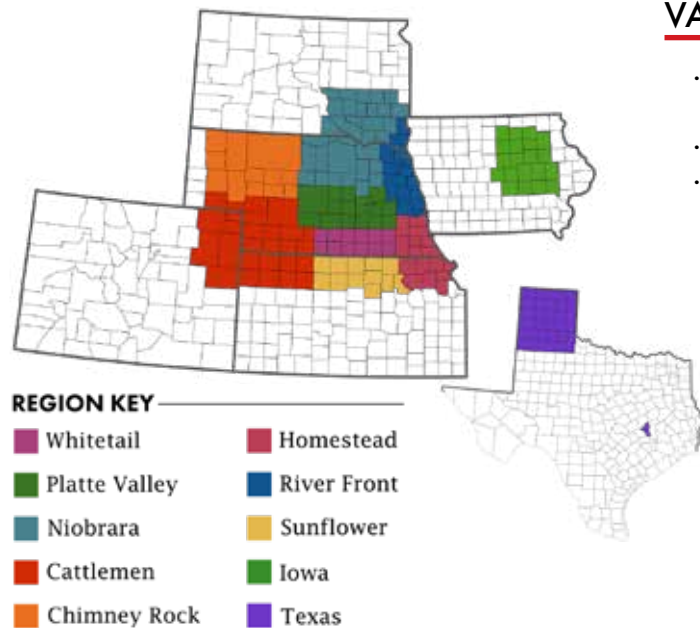
**DISEASE & PEST RESISTANCE**

Brown Stem Rot	NG
PRR Resistance	Rps1a
PRR Field Tolerance	🍷🍷🍷🍷🍷
Soybean Cyst Nematode	R
Southern Stem Canker	R
Sudden Death Syndrome	🍷🍷🍷🍷🍷
White Mold	🍷🍷🍷🍷🍷

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**PLACEMENT RECOMMENDATION**

Seed Region

**DISEASE & PEST RESISTANCE**

Brown Stem Rot	R
PRR Resistance	Rps1k
PRR Field Tolerance	
Soybean Cyst Nematode	Pi 88.788
Southern Stem Canker	R
Sudden Death Syndrome	
White Mold	

*Rating Scale*  
 5 = Excellent    3 = Good    2 = Fair  
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**VARIETY HIGHLIGHTS**

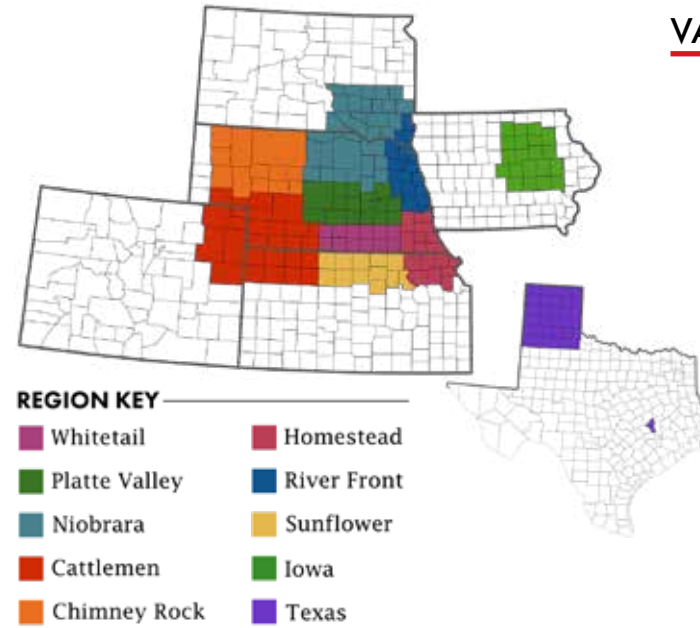
- #1 performing Enlist product in trials the last two years
- Excellent standability with awesome disease package
- Works in all soils and management practices

**VARIETY AGRONOMICS**

Maturity	2.7
Emergence	
Plant Height	Medium+
Plant Type	Medium Bush 2.5
Growth Habit	Indeterminate
Standability	
Iron Deficiency Chlorosis	
No-till Adaptability	
Narrow Row	
Chloride Sensitivity	Includer
Flower Color	Purple
Pubescence Color	Gray
Hilum Color	Imperfect Black
Pod Color	Tan
Oil Content @ 13%	N/A
Protein Content @ 13%	N/A

**HERBICIDE SENSITIVITY**

Metribuzin Sensitivity	Acceptable
PPO Sensitivity	Acceptable



**PLACEMENT RECOMMENDATION**

Seed Region

**DISEASE & PEST RESISTANCE**

Brown Stem Rot	S
PRR Resistance	Rps H1k
PRR Field Tolerance	
Soybean Cyst Nematode	R
Southern Stem Canker	N/A
Sudden Death Syndrome	
White Mold	

*Rating Scale*  
 5 = Excellent    3 = Good    2 = Fair  
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**VARIETY HIGHLIGHTS**

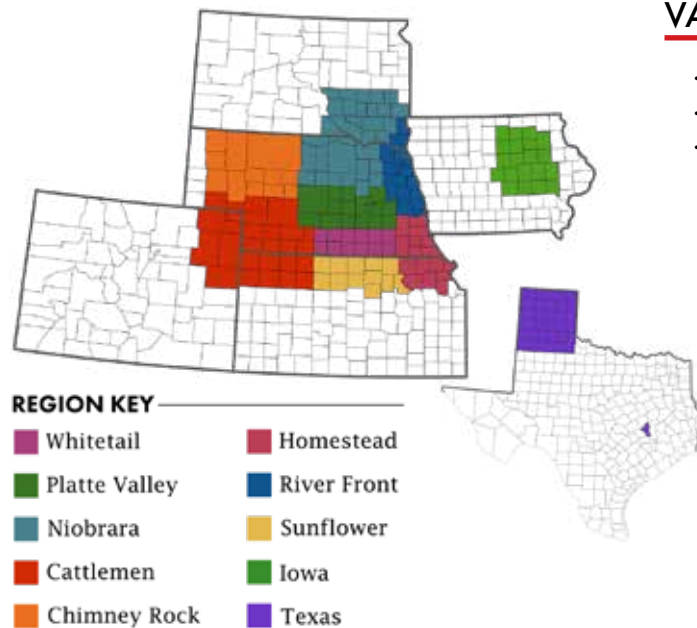
- Very good plant structure and standability
- Very good stress tolerance
- Consistent variety across yield environments
- Performs well across broad acres
- Plant in narrow or wide rows
- Good on high pH soils

**VARIETY AGRONOMICS**

Maturity	2.9
Emergence	
Plant Height	Medium+
Plant Type	Medium Bush 2.0
Growth Habit	Indeterminate
Standability	
Iron Deficiency Chlorosis	
No-till Adaptability	
Narrow Row	
Chloride Sensitivity	N/A
Flower Color	Purple
Pubescence Color	Gray
Hilum Color	Imperfect Black
Pod Color	Tan
Oil Content @ 13%	N/A
Protein Content @ 13%	N/A

**HERBICIDE SENSITIVITY**

Metribuzin Sensitivity	Acceptable
PPO Sensitivity	Acceptable



**PLACEMENT RECOMMENDATION**

Seed Region

**DISEASE & PEST RESISTANCE**

Brown Stem Rot	NG
PRR Resistance	NG
PRR Field Tolerance	
Soybean Cyst Nematode	Pi 88.788
Southern Stem Canker	R
Sudden Death Syndrome	
White Mold	

**VARIETY HIGHLIGHTS**

- Medium-Tall with good standability
- PRR field, SDS, and white mold tolerance is excellent
- New yield leader for 3.0 maturity in Enlist family

**VARIETY AGRONOMICS**

Maturity	3.0
Emergence	
Plant Height	Medium-Tall
Plant Type	Medium Bush 2.0
Growth Habit	Indeterminate
Standability	
Iron Deficiency Chlorosis	
No-till Adaptability	
Narrow Row	
Chloride Sensitivity	Includer
Flower Color	Purple
Pubescence Color	Gray
Hilum Color	Imperfect Black
Pod Color	Brown
Oil Content @ 13%	N/A
Protein Content @ 13%	N/A

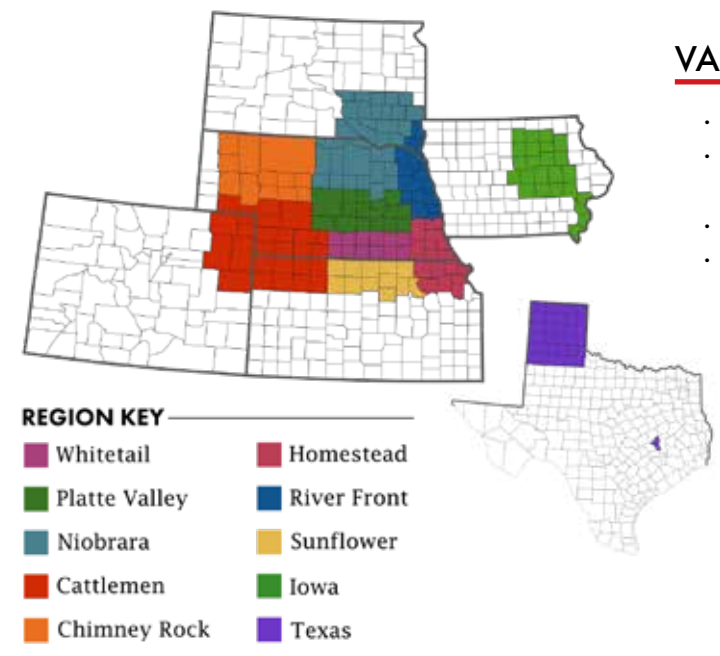
**HERBICIDE SENSITIVITY**

Metribuzin Sensitivity	Acceptable
PPO Sensitivity	Acceptable

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**PLACEMENT RECOMMENDATION**

Seed Region

**DISEASE & PEST RESISTANCE**

Brown Stem Rot	R
PRR Resistance	NG
PRR Field Tolerance	
Soybean Cyst Nematode	R
Southern Stem Canker	R
Sudden Death Syndrome	
White Mold	N/A

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**VARIETY HIGHLIGHTS**

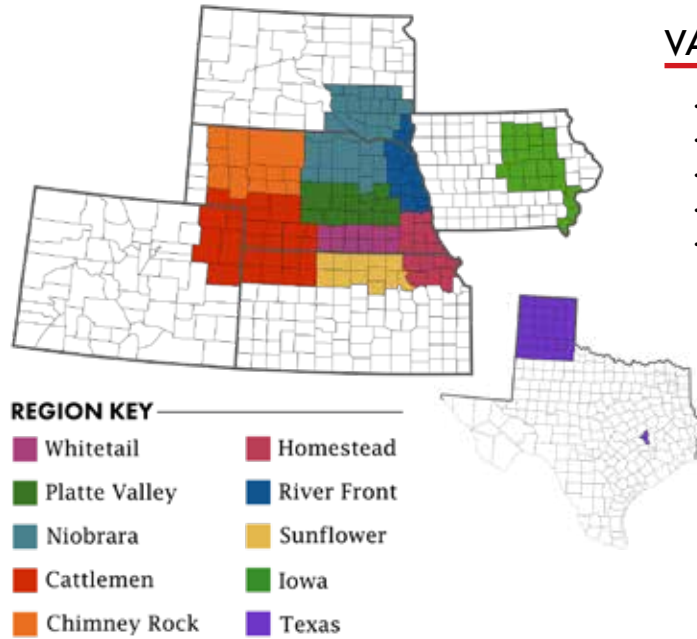
- High performance across all zones
- Wide, bushier plant style with very good lodging notes
- Defensive package includes SCN, BSR, and IDC
- Excellent dryland and irrigated option

**VARIETY AGRONOMICS**

Maturity	3.1
Emergence	
Plant Height	Medium+
Plant Type	Medium Bush 3.0
Growth Habit	Indeterminate
Standability	
Iron Deficiency Chlorosis	
No-till Adaptability	
Narrow Row	
Chloride Sensitivity	Includer
Flower Color	Purple
Pubescence Color	Gray
Hilum Color	Buff
Pod Color	Tan
Oil Content @ 13%	N/A
Protein Content @ 13%	N/A

**HERBICIDE SENSITIVITY**

Metribuzin Sensitivity	Acceptable
PPO Sensitivity	Acceptable



**PLACEMENT RECOMMENDATION**

Seed Region

**DISEASE & PEST RESISTANCE**

Brown Stem Rot	R
PRR Resistance	Rps 1k
PRR Field Tolerance	
Soybean Cyst Nematode	R
Southern Stem Canker	R
Sudden Death Syndrome	
White Mold	

**VARIETY HIGHLIGHTS**

- Yield King, two years running
- Two year observations show excellent SDS tolerance
- Stunning late season plant health
- Dryland and irrigated option
- Works in wide and narrow rows

**VARIETY AGRONOMICS**

Maturity	3.6
Emergence	
Plant Height	Medium-Tall
Plant Type	Medium Bush 2.0
Growth Habit	Indeterminate
Standability	
Iron Deficiency Chlorosis	
No-till Adaptability	
Narrow Row	
Chloride Sensitivity	Includer
Flower Color	Purple
Pubescence Color	Light Tawny
Hilum Color	Black
Pod Color	Brown
Oil Content @ 13%	N/A
Protein Content @ 13%	N/A

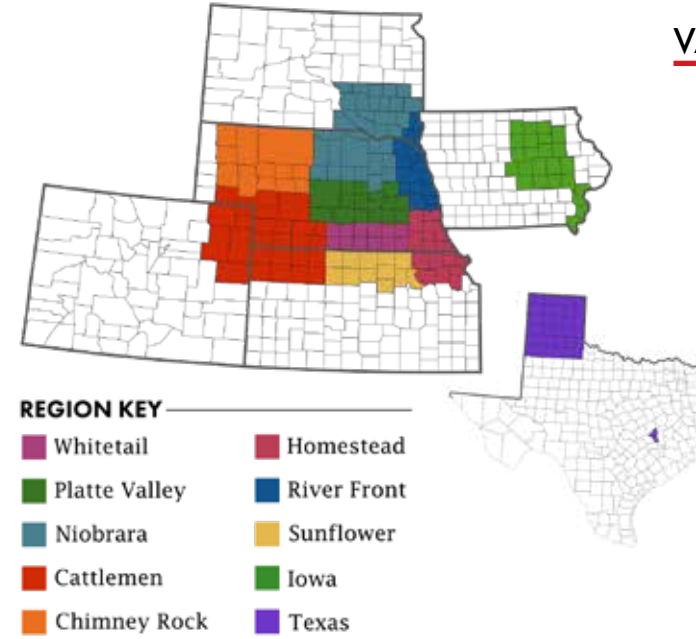
**HERBICIDE SENSITIVITY**

Metribuzin Sensitivity	Acceptable
PPO Sensitivity	Acceptable

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**PLACEMENT RECOMMENDATION**

Seed Region

**DISEASE & PEST RESISTANCE**

Brown Stem Rot	NG
PRR Resistance	Rps 1k
PRR Field Tolerance	
Soybean Cyst Nematode	R
Southern Stem Canker	R
Sudden Death Syndrome	
White Mold	

**VARIETY HIGHLIGHTS**

- Works great in high yield environments
- Excellent lodging and late season plant health
- Great dryland and irrigated option
- Excellent standability and emergence

**VARIETY AGRONOMICS**

Maturity	3.9
Emergence	
Plant Height	Medium+
Plant Type	Medium Bush 2.0
Growth Habit	Indeterminate
Standability	
Iron Deficiency Chlorosis	
No-till Adaptability	
Narrow Row	
Chloride Sensitivity	Includer
Flower Color	White
Pubescence Color	Light Tawny
Hilum Color	Brown
Pod Color	Tan
Oil Content @ 13%	N/A
Protein Content @ 13%	N/A

**HERBICIDE SENSITIVITY**

Metribuzin Sensitivity	Acceptable
PPO Sensitivity	Acceptable

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	Relative Maturity	Flower Color	Pubescence Color	Pod Color	Hilum Color	Plant Height	Plant Structure	Emergence	Standability
	PV2220XF	2.2	Purple	Gray	Brown	Imperfect Black	Tall	2.0	5
PV2224XF <i>NEW</i>	2.2	Purple	Light	Tan	Black	Medium	2.0	4	3
PV2423XF	2.4	Purple	Gray	Brown	Buff	Medium Tall	2.0	5	4
PV2620XF	2.6	Purple	Gray	Tan	Gray	Medium-Tall	2.0	4	4
PV2723XF	2.7	Purple	Gray	Tan	Gray	Medium-Tall	2.0	5	4
PV2923XF	2.9	Purple	Gray	Buff	Imperfect Black	Medium-Tall	2.0	5	4
PV3022XF	3.0	Purple	Gray	Buff	Imperfect Black	Tall	2.0	5	3
PV3223XF	3.2	Purple	Gray	Tan	Imperfect Black	Medium	2.0	5	5
PV3422XF	3.4	Purple	Gray	Brown	Imperfect Black	Medium-Tall	2.0	5	4
PV3723XF	3.7	Purple	Light	Brown	Black	Tall	2.0	5	4
PV3920XF	3.9	Purple	Gray	Tan	Imperfect Black	Tall	2.0	5	4
PV4024XF <i>NEW</i>	4.0	Purple	Gray	Brown	Imperfect Black	Medium-Tall	2.0	4	3
<b>Enlist Variety</b>									
PV2124E3 <i>NEW</i>	2.1	Purple	Gray	Brown	Buff	Medium-Tall	2.0	4	4
PV2324E3 <i>NEW</i>	2.2	White	Gray	Tan	Buff	Medium+	2.0	4	4
PV2419E3	2.4	Purple	Gray	Tan	Buff	Medium+	2.0	4	5
PV2623E3	2.6	Purple	Gray	Brown	Buff	Medium-Tall	2.0	4	3.5
PV2724E3 <i>NEW</i>	2.7	Purple	Gray	Tan	Imperfect Black	Medium+	2.5	4	4
PV2919E3	2.9	Purple	Gray	Tan	Imperfect Black	Medium+	2.0	5	4
PV3024E3 <i>NEW</i>	3.0	Purple	Gray	Brown	Imperfect Black	Medium-Tall	2.0	5	3
PV3123E3	3.1	Purple	Gray	Tan	Buff	Medium+	3.0	4	4
PV3623E3	3.6	Purple	Light	Brown	Black	Medium-Tall	2.0	4	3.5
PV3923E3	3.9	White	Light	Tan	Brown	Medium+	2.0	5	5

IDC	No-Till Adaptability	Narrow Row	Chloride Sensitivity	Oil Content @ 13%	Protein Content @ 13%	Brown Stem Rot	PRR Resistance	PRR Field Tolerance	SCN	Stem Canker	SDS	White Mold (SWM)
3.5	4	5	Inc.	22.8	38.3	S	Rps1c	3.5	R	NA	3.5	3
2.5	4	4	Exc.	NA	NA	R	S	3	R	NA	2.5	2.5
4	5	5	Inc.	21.63	41.75	R	S	3	R	NA	4	2.5
3	4	5	NA	NA	NA	MR-MS	Rps1c	3.5	R	R	3	4
3	5	5	Exc.	NA	NA	R	Rps1c	4	R	NA	3	4
3	5	5	Inc.	22.10	39.48	NA	Rps1c	4	R	NA	3	3.5
3.5	5	5	Inc.	22.10	39.48	R	Rps1c	3.5	R	R	4	3
3.5	5	5	Inc.	22	38.3	R	S	3	R	R	4	3.5
4	5	5	Inc.	21.4	39.2	R	Rps1c	3	R	R	3.5	4
3.5	5	5	Inc.	21.86	41.21	NA	Rps1c	3	R	R	3.5	3
3	4	5	Inc.	NA	NA	NA	Rps1c	3.5	R	R	3.5	3.5
2.5	4	4	Exc.	22.19	39.42	NA	Rps1c	3	R	R	3.5	3.5
<b>Enlist Variety</b>												
4	4	3	Inc.	NA	NA	R	Rps1c3a	4	Pi 88.788	R	3	4
3	4	4	Inc.	NA	NA	NG	Rps1cH3a	4	Pi 88.788	R	3	4
4	5	4	NA	NA	NA	R	Rps1k	3	R	NA	5	4
2.5	4	4	Inc	NA	NA	NG	Rps1a	4	R	R	3	3
3	4	4	Inc.	NA	NA	R	Rps1k	4	R	R	3	3
3.5	4	4	NA	NA	NA	S	RpsH1k	3.5	R	NA	3	3
3	4	4	Inc.	NA	NA	NG	NG	5	Pi 88.788	R	3	3
3.5	4	4	Inc.	NA	NA	R	NG	4	R	R	3.5	NA
3.5	4	4	Inc.	NA	NA	R	Rps1k	4	R	R	4	3
4	4	4	Inc.	NA	NA	NG	Rps1k	4	R	R	4	3

**Rating Scale**  
5 = Excellent  
4 = Very Good  
3 = Good  
2.5 = Average  
2 = Fair  
1 = Poor

**Plant Structure:** 1-1.5 = narrow profile with little to no branching (upright); 2-2.5 = intermediate branching (medium bush-bush); 3 plus = very bushy with many extended branches (full bush)





# SOYBEAN HERBICIDE RECOMMENDATIONS NON-DICAMBA



JANUARY 2021

## Enlist E3<sup>®</sup> soybeans

### Exceptional weed control. Ease of use. Excellent yield.

Enlist E3<sup>®</sup> soybeans offer the most advanced trait technology available in soybeans, providing a new standard for weed control and yield performance. Get access to more herbicides featuring effective sites of action for better weed control this year and in future years.

One system stands alone - get the weed control that you deserve.

#### Wide application window

##### Enlist E3<sup>®</sup> soybeans

Through R1 growth stage

Enlist E3<sup>®</sup> soybeans have no plant-back restrictions after using an Enlist<sup>®</sup> herbicide for burndown.

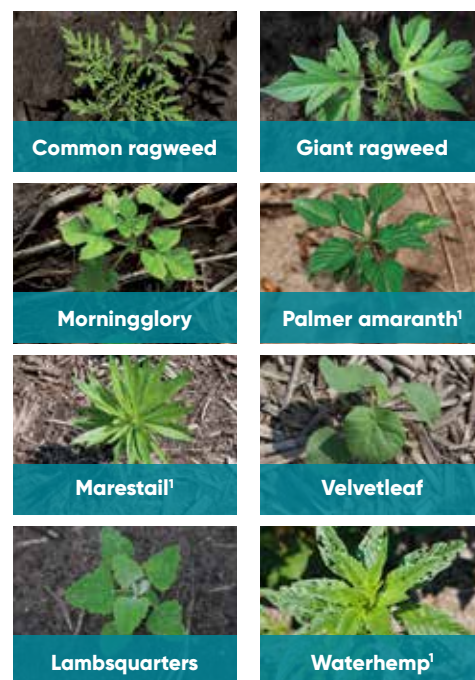
### Adding the Enlist<sup>®</sup> weed control system to your operation is simple.

- Enlist E3 soybeans are compatible with nearby crops, such as **soybeans without the Enlist<sup>®</sup> trait, alfalfa, corn, peanuts, sorghum, rice and wheat**. You can apply Enlist herbicides on Enlist E3 soybeans planted right next to these compatible crops with no wind directional restrictions.
- A wide application window and the versatility of Enlist herbicides make them easy to incorporate into your weed management plan.

*"The genetics were top-notch. The Enlist beans yielded really good and met my expectations."*  
Kevin Miller | Ohio soybean farmer

*"After application, I could see no evidence at all on the beans. There was no burn or wrinkling of leaves at all. The crop tolerance is a big value."*  
Josh Turner | Missouri soybean farmer

Apply with confidence to take down the toughest weeds, including:



<sup>1</sup> May require a broader management plan including timely application and use of a soil residual herbicide.

#### START CLEAN

use appropriate burndown herbicide at labeled rate or tillage

#### PRE/AT PLANTING APPLICATION

within five days of planting but prior to soybean emergence

**CHOOSE** a premix or a tank mix with at least **three active ingredients<sup>1</sup>** at full labeled use rates from Group 2<sup>2</sup>, 3, 5<sup>2</sup>, 14 or 15<sup>3</sup>

When choosing active ingredients from 2, 3, or 5, then a group 14 or 15 has to be included

*Recommend adding a Group 2 active ingredient in places where there are dense populations of large-seeded broadleaf weeds*

#### POST-EMERGENCE APPLICATION<sup>4</sup>

within 4 weeks of planting and when weeds are less than 3-4 inches tall<sup>5</sup>  
(recommend 20-30 days after planting)

	PLUS		OR		AND/OR		PLUS	
32 FL OZ/A		50 FL OZ/A Add an adjuvant per local needs		32 FL OZ/A Add labeled AMS		32 FL OZ/A		48 FL OZ/A

<sup>1</sup>Active ingredients include: Group 2 (Imazethapyr, chlorimuron-ethyl, clorasulam-methyl); Group 3 (pendimethalin); Group 5 (metribuzin); Group 14 (fomesafen, flumioxazin, sulfentrazone or saflufenacil); Group 15 (acetochlor, pyroxasulfone, s-metolachlor or dimethenamid-P).

<sup>2</sup>Please refer to product labels for specific soil pH restrictions.

<sup>3</sup>When considering Warrant<sup>®</sup> Ultra herbicide, substitute with Warrant<sup>®</sup> herbicide where Warrant<sup>®</sup> Ultra herbicide is not labeled or where carry-over is a concern. Refer to product label for special precautions on use rates by area and rotational restrictions and work with your local Bayer representative. When substituting Warrant Ultra herbicide with Warrant herbicide a labeled PPO-inhibiting herbicide may be added to the tank.

<sup>4</sup>Wide row planted soybean may require another POST application.

<sup>5</sup>Acres with glyphosate and PPO-resistant weeds, full labeled applications should be utilized and POST residual herbicide applications to be made before weed emergence.

<sup>6</sup>Alternatively, apply other Roundup<sup>®</sup> brand herbicides at the following rate: Roundup WeatherMAX<sup>®</sup> (32 FL OZ/A) or Roundup PowerMAX<sup>®</sup> 3 herbicide (30 FL OZ/A).



See program terms & conditions for full details.



**IMPORTANT:** This bulletin is not intended to provide adequate information for use of these products. Read the label before using these products. Observe all label directions and precautions while using these products.

**Bayer is a member of Excellence Through Stewardship<sup>®</sup> (ETS).** Bayer products are commercialized in accordance with ETS Product Launch Stewardship Guidance, and in compliance with Bayer's Policy for Commercialization of Biotechnology-Derived Plant Products in Commodity Crops. Commercialized products have been approved for import into key export markets with functioning regulatory systems. Any crop or material produced from this product can only be exported to, or used, processed or sold in countries where all necessary regulatory approvals have been granted. It is a violation of national and international law to move material containing biotech traits across boundaries into nations where import is not permitted. Growers should talk to their grain handler or product purchaser to confirm their buying position for this product. Excellence Through Stewardship<sup>®</sup> is a registered trademark of Excellence Through Stewardship. **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, glyphosate or glufosinate are approved for in-crop use with products with XtendFlex<sup>®</sup> 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<sup>®</sup> soybeans or products with XtendFlex<sup>®</sup> Technology. Roundup Technology<sup>®</sup> includes glyphosate-based herbicide technologies. Performance may vary, from location to location and from year to year, as local growing, soil and weather conditions may vary. Growers should evaluate data from multiple locations and years whenever possible and should consider the impacts of these conditions on the grower's fields. Roundup Ready<sup>®</sup> 2 Technology contains genes that confer tolerance to glyphosate. **Products with XtendFlex<sup>®</sup> 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 Bayer Technology Use Guide for recommended weed control programs. Not all products are registered in all states and may be subject to use restrictions. The distribution, sale, or use of an unregistered pesticide is a violation of federal and/or state law and is strictly prohibited. Check with your local dealer or representative for the product registration status in your state. Bayer, Bayer Cross, Roundup PowerMAX<sup>®</sup>, Roundup Ready 2 Yield<sup>®</sup>, Roundup Ready<sup>®</sup>, Roundup Technology<sup>®</sup>, Roundup WeatherMAX<sup>®</sup>, Warrant<sup>®</sup> and XtendFlex<sup>®</sup> are registered trademarks of Bayer Group. LibertyLink<sup>®</sup> and the Water Droplet Design<sup>®</sup> is a trademark of BASF Corporation. All other trademarks are the property of their respective owners. For additional product information call toll-free 1-866-99-BAYER (1-866-992-2937) or visit our website at www.BayerCropScience.us. Bayer CropScience LP, 800 North Lindbergh Boulevard, St. Louis, MO 63167. ©2021 Bayer Group. All rights reserved.





# SOYBEAN SEED



# SOYBEANS



**NK20-K2XF** BRAND



**NEW**

RM:  
2.0



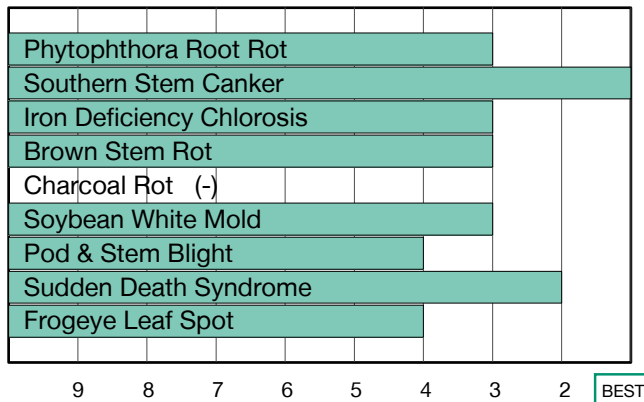
## Proven High-performing Genetics with IDC Tolerance

- Broadly adapted with best performance in high-yielding environments
- Solid defensive package with very good PRR tolerance for use on poorly drained acres
- Excellent drought stress tolerance and very good standability

### Plant Characteristics

Plant Height	<b>Medium-Tall</b>
Canopy/Plant Type	<b>Medium</b>
Branching	<b>Moderate</b>
Growth Habit	<b>Indeterminate</b>
Flower Color	<b>White</b>
Pubescence Color	<b>Light Tawny</b>
Pod Color	<b>Brown</b>
Hilum Color	<b>Black</b>
Chloride Sensitivity	<b>Includer</b>

### Disease Ratings



### Agronomic Traits

Emergence	<b>3</b>
Standability	<b>3</b>
Shatter Tolerance	<b>2</b>
Green Stem	<b>4</b>
Estimated Seed Size	<b>Large</b>
% Protein at 13% mst.	<b>33.1</b>
% Oil at 13% mst.	<b>20.2</b>
Narrow Rows	<b>3</b>
Wide Rows	<b>1</b>
Metribuzin Response	<b>-</b>
Sulfentrazone Response	<b>-</b>

### Adaptation to Soil Types

Drought Prone	<b>Best</b>
High pH*	<b>Good</b>
Highly Productive	<b>Best</b>
Moderate/Variable Environments	<b>Best</b>
Poorly Drained	<b>Best</b>

### Diseases and Pests

Phytophthora Root Rot (PRR) Source	<b>Rps1c</b>
Soybean Cyst Nematode (SCN) Races	<b>MR3</b>
(SCN) Source	<b>PI88788</b>
Root Knot Nematode (RKN) Incognita	<b>-</b>

For more information or to view product performance data: [nksoybeans.com](http://nksoybeans.com) [nkfieldforged.com](http://nkfieldforged.com) @NKSeeds (800) 258-0521

1-9 Scale: 1 = Best, 9 = Worst, (-) = Not Available.

Adaptation and Responses: Best > Good > Fair > Poor.

\* Represents an assessment of stand establishment, chlorosis severity and yield performance

Ratings are based on interpretation of data gathered by Syngenta and/or observations across areas of adaptation and may change as additional data are gathered. Product performance assumes disease presence.

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# SOYBEANS



**NK27-A7XF** BRAND

RM:  
2.7



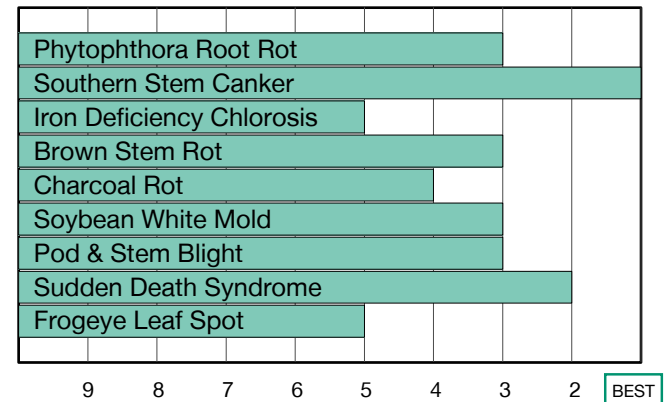
## Exciting Genetics with Top-End Yield Potential

- Widely adapted with outstanding Sudden Death Syndrome tolerance
- Strong Phytophthora Root Rot field tolerance with Rps1c gene
- Very good standability for productive acres

### Plant Characteristics

Plant Height	<b>Medium-Tall</b>
Canopy/Plant Type	<b>Medium</b>
Branching	<b>Moderate</b>
Growth Habit	<b>Indeterminate</b>
Flower Color	<b>Purple</b>
Pubescence Color	<b>Light Tawny</b>
Pod Color	<b>Brown</b>
Hilum Color	<b>Black</b>
Chloride Sensitivity	<b>Includer</b>

### Disease Ratings



### Agronomic Traits

Emergence	<b>2</b>
Standability	<b>3</b>
Shatter Tolerance	<b>2</b>
Green Stem	<b>3</b>
Estimated Seed Size	<b>Large</b>
% Protein at 13% mst.	<b>34.5</b>
% Oil at 13% mst.	<b>19.7</b>
Narrow Rows	<b>2</b>
Wide Rows	<b>1</b>
Metribuzin Response	<b>Good</b>
Sulfentrazone Response	<b>Good</b>

### Adaptation to Soil Types

Drought Prone	<b>Best</b>
High pH*	<b>Poor</b>
Highly Productive	<b>Good</b>
Moderate/Variable Environments	<b>Best</b>
Poorly Drained	<b>Best</b>

### Diseases and Pests

Phytophthora Root Rot (PRR) Source	<b>Rps1c</b>
Soybean Cyst Nematode (SCN) Races	<b>MR3</b>
(SCN) Source	<b>PI88788</b>
Root Knot Nematode (RKN) Incognita	<b>-</b>

For more information or to view product performance data: [nksoybeans.com](http://nksoybeans.com) [nkfieldforged.com](http://nkfieldforged.com) @NKSeeds (800) 258-0521

1-9 Scale: 1 = Best, 9 = Worst, (-) = Not Available.

Adaptation and Responses: Best > Good > Fair > Poor.

\* Represents an assessment of stand establishment, chlorosis severity and yield performance

Ratings are based on interpretation of statistically analyzed results of studies conducted by Syngenta and may change as additional data are gathered.

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# SOYBEANS



**NK28-P6XF** BRAND

**NEW** RM: 2.8



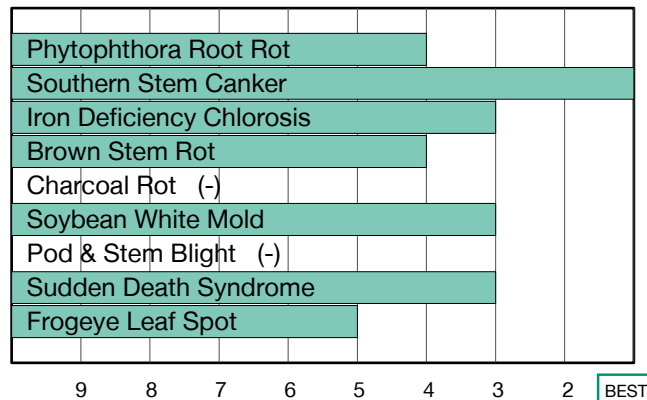
## Exciting Tank Bean for Any MG 2 Acre

- Broadly adapted with strong top-end yield potential
- Excels in fine-textured and poorly drained soils
- Sweet choice for fields with a history of SDS, SWM or IDC

### Plant Characteristics

Plant Height	<b>Medium-Tall</b>
Canopy/Plant Type	<b>Medium</b>
Branching	<b>Moderate</b>
Growth Habit	<b>Indeterminate</b>
Flower Color	<b>Purple</b>
Pubescence Color	<b>Light Tawny</b>
Pod Color	<b>Tan</b>
Hilum Color	<b>Black</b>
Chloride Sensitivity	<b>Includer</b>

### Disease Ratings



### Agronomic Traits

Emergence	<b>2</b>
Standability	<b>3</b>
Shatter Tolerance	<b>2</b>
Green Stem	<b>3</b>
Estimated Seed Size	<b>Large</b>
% Protein at 13% mst.	<b>34.7</b>
% Oil at 13% mst.	<b>20.0</b>
Narrow Rows	<b>2</b>
Wide Rows	<b>1</b>
Metribuzin Response	<b>-</b>
Sulfentrazone Response	<b>-</b>

### Adaptation to Soil Types

Drought Prone	<b>Best</b>
High pH*	<b>Good</b>
Highly Productive	<b>Best</b>
Moderate/Variable Environments	<b>Best</b>
Poorly Drained	<b>Good</b>

### Diseases and Pests

Phytophthora Root Rot (PRR) Source	<b>Rps1c</b>
Soybean Cyst Nematode (SCN) Races	<b>MR3</b>
(SCN) Source	<b>PI88788</b>
Root Knot Nematode (RKN) Incognita	<b>-</b>

For more information or to view product performance data: [nksoybeans.com](http://nksoybeans.com) [nkfieldforged.com](http://nkfieldforged.com) @NKSeeds (800) 258-0521

1-9 Scale: 1 = Best, 9 = Worst, (-) = Not Available.  
Adaptation and Responses: Best > Good > Fair > Poor.

\* Represents an assessment of stand establishment, chlorosis severity and yield performance

Ratings are based on interpretation of data gathered by Syngenta and/or observations across areas of adaptation and may change as additional data are gathered. Product performance assumes disease presence.

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# SOYBEANS



**NK30-U4XF** BRAND

RM: 3.0



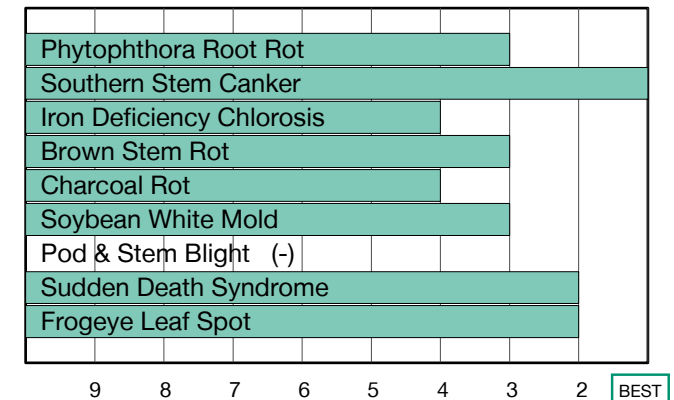
## Spectacular Bulk Tank Bean with Broad Adaptation

- Excellent standability and top-end yield punch
- Excels in highly productive soils
- Dependable agronomics enable easy placement

### Plant Characteristics

Plant Height	<b>Medium</b>
Canopy/Plant Type	<b>Medium</b>
Branching	<b>Moderate</b>
Growth Habit	<b>Indeterminate</b>
Flower Color	<b>White</b>
Pubescence Color	<b>Light Tawny</b>
Pod Color	<b>Brown</b>
Hilum Color	<b>Black</b>
Chloride Sensitivity	<b>Includer</b>

### Disease Ratings



### Agronomic Traits

Emergence	<b>2</b>
Standability	<b>2</b>
Shatter Tolerance	<b>2</b>
Green Stem	<b>3</b>
Estimated Seed Size	<b>Medium</b>
% Protein at 13% mst.	<b>34.5</b>
% Oil at 13% mst.	<b>19.2</b>
Narrow Rows	<b>1</b>
Wide Rows	<b>1</b>
Metribuzin Response	<b>-</b>
Sulfentrazone Response	<b>-</b>

### Adaptation to Soil Types

Drought Prone	<b>Best</b>
High pH*	<b>Fair</b>
Highly Productive	<b>Best</b>
Moderate/Variable Environments	<b>Best</b>
Poorly Drained	<b>Best</b>

### Diseases and Pests

Phytophthora Root Rot (PRR) Source	<b>Rps1c</b>
Soybean Cyst Nematode (SCN) Races	<b>R3</b>
(SCN) Source	<b>PI88788</b>
Root Knot Nematode (RKN) Incognita	<b>-</b>

For more information or to view product performance data: [nksoybeans.com](http://nksoybeans.com) [nkfieldforged.com](http://nkfieldforged.com) @NKSeeds (800) 258-0521

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# SOYBEANS



**NK37-B7XFS** BRAND

**NEW** RM: 3.7



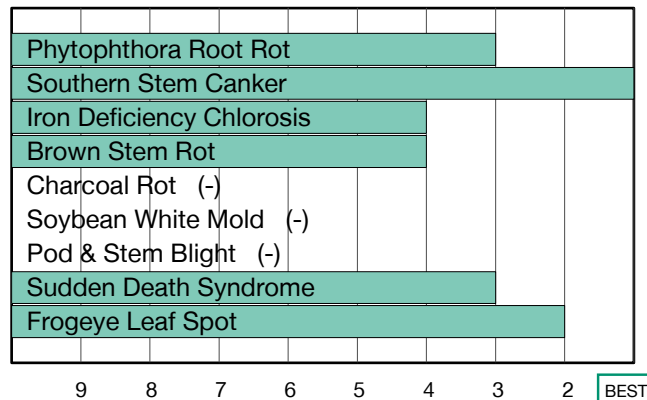
## Excellent Performance in Broadly Adapted Genetics

- Top-end yield potential with rugged stress tolerance
- Ability to handle fine-textured and poorly drained soils
- Versatile product suited for any management style

### Plant Characteristics

Plant Height	<b>Medium-Tall</b>
Canopy/Plant Type	<b>Medium-Bush</b>
Branching	<b>Moderate</b>
Growth Habit	<b>Indeterminate</b>
Flower Color	<b>Purple</b>
Pubescence Color	<b>Light Tawny</b>
Pod Color	<b>Brown</b>
Hilum Color	<b>Black</b>
Chloride Sensitivity	<b>Includer</b>

### Disease Ratings



### Agronomic Traits

Emergence	<b>2</b>
Standability	<b>3</b>
Shatter Tolerance	<b>-</b>
Green Stem	<b>-</b>
Estimated Seed Size	<b>Large</b>
% Protein at 13% mst.	<b>34.6</b>
% Oil at 13% mst.	<b>20.2</b>
Narrow Rows	<b>2</b>
Wide Rows	<b>1</b>
Metribuzin Response	<b>-</b>
Sulfentrazone Response	<b>-</b>

### Adaptation to Soil Types

Drought Prone	<b>Best</b>
High pH*	<b>Fair</b>
Highly Productive	<b>Best</b>
Moderate/Variable Environments	<b>Good</b>
Poorly Drained	<b>Best</b>

### Diseases and Pests

Phytophthora Root Rot (PRR) Source	<b>Rps1c</b>
Soybean Cyst Nematode (SCN) Races	<b>MR3</b>
(SCN) Source	<b>PI88788</b>
Root Knot Nematode (RKN) Incognita	<b>-</b>

For more information or to view product performance data: [nksoybeans.com](http://nksoybeans.com) [nkfieldforged.com](http://nkfieldforged.com) @NKSeeds (800) 258-0521

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Adaptation and Responses: Best > Good > Fair > Poor.

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# SOYBEANS



**NK21-C2E3** BRAND

**NEW** RM: 2.1



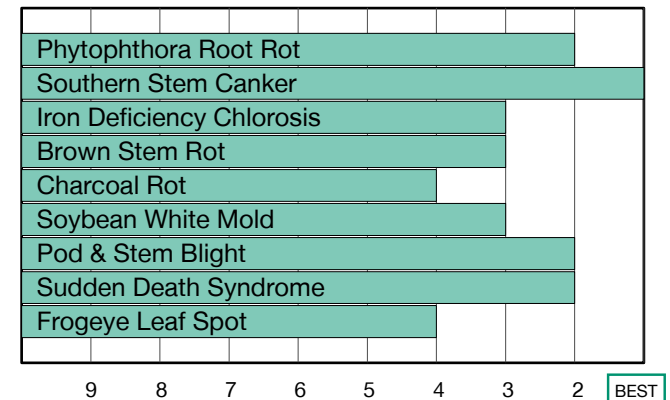
## Reliable Genetics with Great Yield Potential and Solid Agronomics

- Broadly adapted for production on all soil types
- Brings great SDS and PRR field tolerance
- Strong standability and SWM tolerance for use on highly productive acres

### Plant Characteristics

Plant Height	<b>Medium</b>
Canopy/Plant Type	<b>Medium</b>
Branching	<b>Moderate</b>
Growth Habit	<b>Indeterminate</b>
Flower Color	<b>Purple</b>
Pubescence Color	<b>Gray</b>
Pod Color	<b>Brown</b>
Hilum Color	<b>Imperfect Black</b>
Chloride Sensitivity	<b>Includer</b>

### Disease Ratings



### Agronomic Traits

Emergence	<b>3</b>
Standability	<b>2</b>
Shatter Tolerance	<b>2</b>
Green Stem	<b>3</b>
Estimated Seed Size	<b>Large</b>
% Protein at 13% mst.	<b>34.0</b>
% Oil at 13% mst.	<b>19.2</b>
Narrow Rows	<b>1</b>
Wide Rows	<b>1</b>
Metribuzin Response	<b>Best</b>
Sulfentrazone Response	<b>Best</b>

### Adaptation to Soil Types

Drought Prone	<b>Good</b>
High pH*	<b>Good</b>
Highly Productive	<b>Best</b>
Moderate/Variable Environments	<b>Best</b>
Poorly Drained	<b>Best</b>

### Diseases and Pests

Phytophthora Root Rot (PRR) Source	<b>Rps1c</b>
Soybean Cyst Nematode (SCN) Races	<b>MR3</b>
(SCN) Source	<b>PI88788</b>
Root Knot Nematode (RKN) Incognita	<b>-</b>

For more information or to view product performance data: [nksoybeans.com](http://nksoybeans.com) [nkfieldforged.com](http://nkfieldforged.com) @NKSeeds (800) 258-0521

1-9 Scale: 1 = Best, 9 = Worst, (-) = Not Available.  
Adaptation and Responses: Best > Good > Fair > Poor.

\* Represents an assessment of stand establishment, chlorosis severity and yield performance

Ratings are based on interpretation of data gathered by Syngenta and/or observations across areas of adaptation and may change as additional data are gathered. Product performance assumes disease presence.

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# SOYBEANS



**NK26-M6E3** BRAND



**NEW**

RM:  
2.6



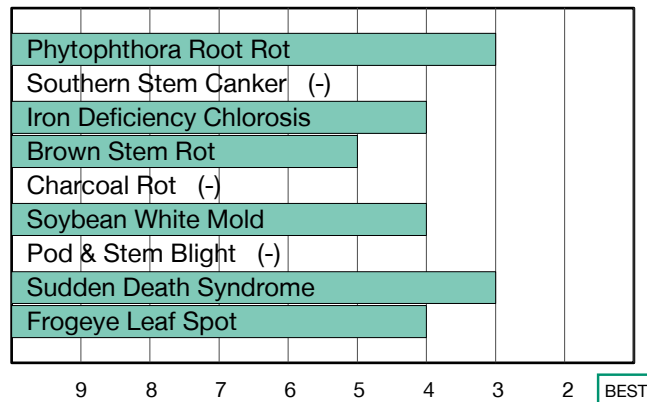
## Broadly Adapted with Great Yield Potential on any Acre

- Handles variable and poorly drained soils with solid Phytophthora field tolerance
- Maintains performance North and South of zone
- Outstanding performance on drought-stressed and highly productive acres

### Plant Characteristics

Plant Height	<b>Medium</b>
Canopy/Plant Type	<b>Medium</b>
Branching	<b>Moderate</b>
Growth Habit	<b>Indeterminate</b>
Flower Color	<b>White</b>
Pubescence Color	<b>Gray</b>
Pod Color	<b>Tan</b>
Hilum Color	<b>Buff</b>
Chloride Sensitivity	<b>Includer</b>

### Disease Ratings



### Agronomic Traits

Emergence	<b>3</b>
Standability	<b>2</b>
Shatter Tolerance	<b>2</b>
Green Stem	<b>2</b>
Estimated Seed Size	<b>Small</b>
% Protein at 13% mst.	<b>33.2</b>
% Oil at 13% mst.	<b>20.7</b>
Narrow Rows	<b>1</b>
Wide Rows	<b>1</b>
Metribuzin Response	<b>-</b>
Sulfentrazone Response	<b>-</b>

### Adaptation to Soil Types

Drought Prone	<b>Best</b>
High pH*	<b>Fair</b>
Highly Productive	<b>Good</b>
Moderate/Variable Environments	<b>Best</b>
Poorly Drained	<b>Best</b>

### Diseases and Pests

Phytophthora Root Rot (PRR) Source	<b>Rps1c</b>
Soybean Cyst Nematode (SCN) Races	<b>MR3</b>
(SCN) Source	<b>PI88788</b>
Root Knot Nematode (RKN) Incognita	<b>-</b>

For more information or to view product performance data: [nksoybeans.com](http://nksoybeans.com) [nkfieldforged.com](http://nkfieldforged.com) @NKSeeds (800) 258-0521

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Published February 16, 2023. For use until April 30, 2023.

# SOYBEANS



**NK28-B9E3S** BRAND

**NEW**

RM:  
2.8



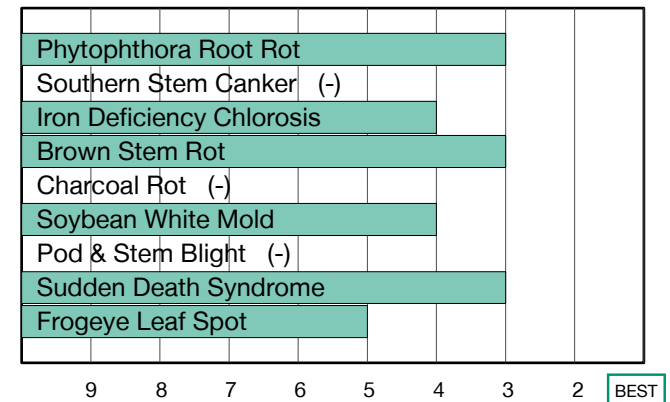
## Breakout Genetics Providing Stability and Performance

- Well suited to variable soils including fine-textured and poorly drained
- Consistent across all yield levels; performs best in the East
- Maintains height in drought-prone conditions

### Plant Characteristics

Plant Height	<b>Medium</b>
Canopy/Plant Type	<b>Medium-Bush</b>
Branching	<b>Moderate</b>
Growth Habit	<b>Indeterminate</b>
Flower Color	<b>Purple</b>
Pubescence Color	<b>Gray</b>
Pod Color	<b>Brown</b>
Hilum Color	<b>Imperfect Black</b>
Chloride Sensitivity	<b>Includer</b>

### Disease Ratings



### Agronomic Traits

Emergence	<b>2</b>
Standability	<b>4</b>
Shatter Tolerance	<b>2</b>
Green Stem	<b>2</b>
Estimated Seed Size	<b>Large</b>
% Protein at 13% mst.	<b>34.8</b>
% Oil at 13% mst.	<b>19.9</b>
Narrow Rows	<b>3</b>
Wide Rows	<b>1</b>
Metribuzin Response	<b>-</b>
Sulfentrazone Response	<b>-</b>

### Adaptation to Soil Types

Drought Prone	<b>Good</b>
High pH*	<b>Fair</b>
Highly Productive	<b>Good</b>
Moderate/Variable Environments	<b>Best</b>
Poorly Drained	<b>Best</b>

### Diseases and Pests

Phytophthora Root Rot (PRR) Source	<b>Rps1c</b>
Soybean Cyst Nematode (SCN) Races	<b>MR3</b>
(SCN) Source	<b>PI88788</b>
Root Knot Nematode (RKN) Incognita	<b>-</b>

For more information or to view product performance data: [nksoybeans.com](http://nksoybeans.com) [nkfieldforged.com](http://nkfieldforged.com) @NKSeeds (800) 258-0521

1-9 Scale: 1 = Best, 9 = Worst, (-) = Not Available.  
Adaptation and Responses: Best > Good > Fair > Poor.

\* Represents an assessment of stand establishment, chlorosis severity and yield performance

Ratings are based on interpretation of data gathered by Syngenta and/or observations across areas of adaptation and may change as additional data are gathered. Product performance assumes disease presence.

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Published February 08, 2023. For use until April 30, 2023.

# SOYBEANS



**NK29-Z4E3** BRAND

RM:  
2.9



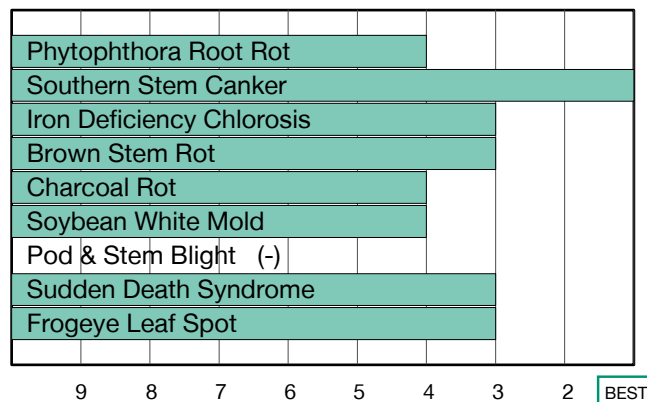
## Great Yield Potential, Stability and Complete Disease Package

- Performs equally well across group 2; excels in soils with high water holding capacity
- Features stacked Rps genes and proven Sudden Death Syndrome, Iron Deficiency Chlorosis, and Frogeye Leaf Spot tolerance
- Recommended for high pH soils

### Plant Characteristics

Plant Height	Medium
Canopy/Plant Type	Medium-Bush
Branching	Moderate
Growth Habit	Indeterminate
Flower Color	White
Pubescence Color	Gray
Pod Color	Tan
Hilum Color	Buff
Chloride Sensitivity	Includer

### Disease Ratings



### Agronomic Traits

Emergence	2
Standability	2
Shatter Tolerance	3
Green Stem	3
Estimated Seed Size	Small
% Protein at 13% mst.	34.7
% Oil at 13% mst.	19.4
Narrow Rows	1
Wide Rows	1
Metribuzin Response	Best
Sulfentrazone Response	Good

### Adaptation to Soil Types

Drought Prone	Best
High pH*	Good
Highly Productive	Good
Moderate/Variable Environments	Good
Poorly Drained	Best

### Diseases and Pests

Phytophthora Root Rot (PRR) Source	Rps1k, Rps3a
Soybean Cyst Nematode (SCN) Races	R3
(SCN) Source	PI88788
Root Knot Nematode (RKN) Incognita	-

For more information or to view product performance data: [nksoybeans.com](http://nksoybeans.com) [nkfieldforged.com](http://nkfieldforged.com) @NKSeeds (800) 258-0521

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Adaptation and Responses: Best > Good > Fair > Poor.

\* Represents an assessment of stand establishment, chlorosis severity and yield performance

Ratings are based on interpretation of statistically analyzed results of studies conducted by Syngenta and may change as additional data are gathered.

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Seed products with the LibertyLink® (LL) trait are resistant to the herbicide glufosinate ammonium, an alternative to glyphosate in corn and soybeans, and combine high-yielding genetics with the powerful, non-selective, post-emergent weed control of Liberty® herbicide for optimum yield and excellent weed control.

# SOYBEANS



**NK37-C1E3** BRAND

NEW

RM:  
3.7



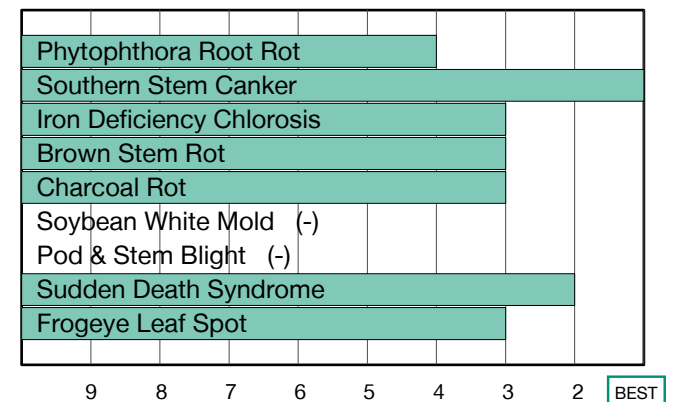
## Excellent Standability with Top-End Yield Potential

- Superb SDS tolerance with proven IDC protection
- Versatile to plant on any soil or drainage type
- Great choice for highly productive acres

### Plant Characteristics

Plant Height	Medium-Tall
Canopy/Plant Type	Medium
Branching	Prolific
Growth Habit	Indeterminate
Flower Color	White
Pubescence Color	Gray
Pod Color	Brown
Hilum Color	Buff
Chloride Sensitivity	Includer

### Disease Ratings



### Agronomic Traits

Emergence	2
Standability	2
Shatter Tolerance	2
Green Stem	4
Estimated Seed Size	Medium
% Protein at 13% mst.	33.8
% Oil at 13% mst.	19.5
Narrow Rows	1
Wide Rows	1
Metribuzin Response	-
Sulfentrazone Response	-

### Adaptation to Soil Types

Drought Prone	Good
High pH*	Good
Highly Productive	Best
Moderate/Variable Environments	Best
Poorly Drained	Best

### Diseases and Pests

Phytophthora Root Rot (PRR) Source	Rps1c, Rps3a
Soybean Cyst Nematode (SCN) Races	R3, MR14
(SCN) Source	PI88788
Root Knot Nematode (RKN) Incognita	-

For more information or to view product performance data: [nksoybeans.com](http://nksoybeans.com) [nkfieldforged.com](http://nkfieldforged.com) @NKSeeds (800) 258-0521

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Seed products with the LibertyLink® (LL) trait are resistant to the herbicide glufosinate ammonium, an alternative to glyphosate in corn and soybeans, and combine high-yielding genetics with the powerful, non-selective, post-emergent weed control of Liberty® herbicide for optimum yield and excellent weed control.



### FUNGICIDES

Protection against *Pythium*, early-season *Phytophthora*, *Rhizoctonia solani* and *Fusarium* with an exclusive combination of fungicides and more rapid and increased emergence of seedlings under certain conditions.



### FUNGICIDES

Protection against *Pythium*, early-season *Phytophthora*, *Rhizoctonia solani* and *Fusarium* with an exclusive combination of fungicides and more rapid and increased emergence of seedlings under certain cold conditions.

### INSECTICIDES

Protection from pests including bean leaf beetles, early-season soybean aphids and seed corn maggots.

## Acceleron® Seed Applied Solution Blend

Active(s)	Use Rate (oz/cwt)	Pythium	Phytophthora	Rhizoctonia	Fusarium	Phomopsis	Nematodes	SDS	Early Soy Aphids	Wireworm	Bean Leaf Beetle	Leafhoppers
Imidacloprid	2*	NA	NA	NA	NA	NA	NA	NA	E	VG	E	G
Prothioconazole, Penflufen, Metalaxyl	1.5	E	E	E	E	G	NA	NA	NA	NA	NA	NA
Fluopyram	1.8** - 2.36*	NA	NA	NA	NA	NA	VG	E	NA	NA	NA	NA

ACCELERON STANDARD + ILEVO® Seed Treatment	E	E	E	E	G	VG	E	E	VG	E	G
--	---	---	---	---	---	----	---	---	----	---	---

P=P=Poor 
 F=F=Fair 
 G=G=Good 
 VG=VG=Very Good 
 E=E=Excellent 
 NA=NA=Not Labeled

\*Higher rate IMD recommendations for heavy corn seed maggot pressure

\*\*Nematode rate

\*Nematicide/SDS rate

References: University of Wisconsin 2017 Efficacy table; University of Mississippi Insect Control Guide; Internal Bayer Research

## Additional Offerings

### ILEVO® SEED TREATMENT

ILEVO® Seed Treatment offers protection against Sudden Death Syndrome and damage caused by plant parasitic nematodes, including Soybean Cyst Nematodes (SCN).



## Upstream

### Acceleron® Seed Applied Solutions Seed Brand Offering

- ASGROW®
- Alloy™ (Enlist offering)
- Channel®
- Connect™(Enlist offering)
- Fontanelle Hybrids®
- Gold Country Seed®
- Hubner Seed & Design®
- Jung Seed Genetics™
- Kruger Seeds™
- Lewis Hybrids™
- REA Hybrids™
- Specialty Hybrids™
- Stewart Seeds™
- Stone Seed™

## IMPROVED

## Downstream

### Acceleron® Seed Applied Solutions Offering

- Excellent broad spectrum seedling disease control
- Improved product stability and flowability
- Reduced treater buildup
- Protection against *Pythium* & *Phytophthora* with the highest application rate in the industry for metalaxyl
- New Bayer active ingredients that are compatible

ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS.

FOR SOYBEAN SEED TREATMENT PRODUCTS APPLIED DOWNSTREAM, EACH ACCELERON® SEED APPLIED SOLUTIONS OFFERING is a combination of separate individually registered products containing the active ingredients: BASIC Offering: metalaxyl, penflufen, and prothioconazole. STANDARD Offering: metalaxyl, penflufen, prothioconazole and imidacloprid.

FOR SOYBEANS SEED TREATMENT PRODUCTS APPLIED DOWNSTREAM, EACH ACCELERON® SEED APPLIED SOLUTIONS OFFERING is a combination of separate individually registered products containing the active ingredients: BASIC Offering: metalaxyl, penflufen and prothioconazole. STANDARD Offering: metalaxyl, penflufen, prothioconazole and imidacloprid. FOR UPSTREAM TREATED SOYBEANS, EACH ACCELERON® SEED APPLIED SOLUTIONS OFFERING is a combination of separate individually registered products containing the active ingredients: BASIC Offering: metalaxyl, flupyrroxad, and pyraclostrobin. STANDARD Offering: metalaxyl, flupyrroxad, pyraclostrobin and imidacloprid.

FOR UPSTREAM TREATED SOYBEANS, EACH ACCELERON® SEED APPLIED SOLUTIONS OFFERING is a combination of separate individually registered products containing the active ingredients: BASIC Offering: metalaxyl, flupyrroxad, and pyraclostrobin. STANDARD Offering: metalaxyl, flupyrroxad, pyraclostrobin and imidacloprid.

Not all products are registered in all states and may be subject to use restrictions. The distribution, sale, or use of an unregistered pesticide is a violation of federal and/or state law and is strictly prohibited.

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# Beat SDS and SCN with ILEVO<sup>®</sup> Seed Treatment in Nebraska

It's not complicated — ILEVO seed treatment is the solution regardless of weather conditions. When it's hot and dry, nematode damage increases, and when it's cool and wet, SDS thrives. **Don't let weather threaten up to 30 percent of yields.** Go with the proven winner against both SCN and SDS.

## Soybean Cyst Nematode Sample Results in Nebraska

**55%**

Percent of sampled fields with SCN detected

**1,192**

Average Egg Count (Eggs/100 cc soil)

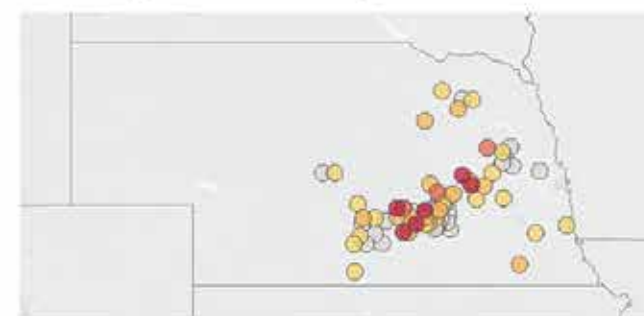
**31%**

Percent of fields with SCN found at damaging levels (>500/100 cc soil)

BASF SCN Sampling Projects, 2021-2022. (748 total samples. Jan 24, 2023)

## SCN is a Widespread Pest in Nebraska

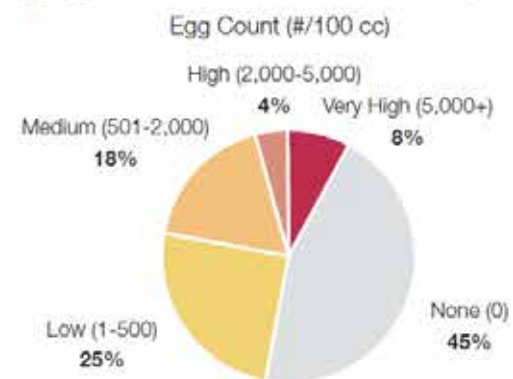
### SCN Population Density Across Nebraska



SCN Egg Count (#/100 cc soil)  
 ● None (0) ● Low (1-500) ● Medium (501-2,000)  
 ● High (2,001-5,000) ● Very High (5,000+)

BASF SCN Sampling Projects, 2021-2022. (748 total samples. Jan 24, 2023)

### Damaging Levels of SCN are Widespread



## CRUISERMAXX APX SEED TREATMENT: Supercharged Protection. From Day One.

CruiserMaxx<sup>®</sup> Vibrance<sup>®</sup> has earned the reputation for being the best seed treatment to protect soybeans against early-season disease and insects. Now, with the addition of the most powerful *Pythium* and *Phytophthora*-fighting molecule, picarbutrazox (PCBX), soybean growers can experience unmatched early-season protection, more vigor, better plant stands, faster canopy closure and maximum ROI potential with CruiserMaxx APX seed treatment.

**Two of the top yield-robbing disease threats in soybeans infect early in the season.**

*Pythium* causes reduced plant stands, stunting, damping off and reduced yield potential by up to 30%<sup>1</sup>.

*Phytophthora* causes damping off, stem and root rot, seedling blight and can kill soybean plants.



**30%**

REDUCED YIELD POTENTIAL

Pythium

Phytophthora

### NOTHING ELSE LIKE IT

**Delivers Early-Season Protection with Unmatched Power**

In addition to *Pythium* and *Phytophthora*, CruiserMaxx APX protects against *Fusarium*, *Rhizoctonia*, all common seed-borne diseases and early season insect pests.

**Allows Freedom to Plant Whenever Growers Choose**

CruiserMaxx APX is specifically designed for today's soybean-growing reality. Whether your growers plant early in cool, wet soil or later in warmer conditions, you can trust CruiserMaxx APX to protect your growers' soybeans, ensuring early stand establishment uniformity.

**Builds on the Proven ROI Potential of CruiserMaxx Vibrance**

CruiserMaxx APX still provides the proven Cruiser<sup>®</sup> Vigor Effect and RootingPower that growers have come to expect from CruiserMaxx Vibrance. These trusted above- and below-ground benefits help preserve genetic yield potential by enabling faster, more uniform emergence, stronger plants and roots, and quicker speed-to-canopy.

**Contains A Novel Mode of Action**

CruiserMaxx APX provides the most robust *Pythium* and *Phytophthora* protection available in soybeans with the power of picarbutrazox.

### UNMATCHED PYTHIUM DEFENSE



CruiserMaxx<sup>®</sup> APX

Untreated

Acceleron<sup>®</sup> Standard F/I

Inoculated with three common *Pythium* species: *Pythium irregulare*, *Pythium torulosum* and *Pythium ultimum*. Syngenta trials at The Seedcare Institute™; Stanton, MN; 2021.



syngenta.

# FROM THE FIELD: SEEING SDS IN YOUR SALTRO-TREATED SOYBEANS?

Saltro® fungicide seed treatment is the latest SDHI fungicide offered by Syngenta Seedcare. It contains ADEPIDYN® technology, which provides the most intrinsic activity against *Fusarium virguliforme*, the causal organism of Sudden Death Syndrome (SDS), of any seed treatment available in the U.S.

## DID YOU TREAT YOUR SOYBEANS WITH SALTRO THIS SEASON AND STILL SEE SIGNS OF SDS IN YOUR FIELD? HERE'S WHY:



**Environmental conditions heavily influence whether SDS exhibits foliar symptoms, with cooler, wetter conditions early in the growing season favoring SDS infection.**

- Under cooler, wetter conditions, SDS will continue to infect and grow within the root system without above-ground symptoms, often until early to mid-August.
- In the foliar phase, toxins from the root infection are transported up from the root system into the leaf canopy.
- Toxins cause small yellow/chlorotic flecks or spots that enlarge, eventually destroying large amounts of the leaf canopy.



**Saltro works by limiting the early-season root infection phase of SDS and by protecting developing roots from Soybean Cyst Nematode (SCN) feeding.**

- Early-season protection also allows the plant to establish a robust root system and quick development above-ground.
- However, there is no chemical or genetic solution for SDS that will entirely prevent the disease from showing up under the right environmental conditions.



**No seed, soil-applied or over-the-crop solution provides 100% control of weeds, nematodes, disease or insect pests.**

- When used according to label directions, Saltro provides market-leading protection from SDS, but not immunity.
- Saltro is NOT an eradicant; you will still see some SDS in the canopy, but predictably less and later than if you did not use it.
- Any yield loss from SDS should not be as severe as it may have been without Saltro.



**When evaluating chemical controls, a side-by-side comparison in the same field on the same soybean variety is the best way of determining differences in product efficacy.**

- A check strip of soybeans with no SDS treatment in a field is the only way to confirm how much worse a particular field that's been treated by Saltro could have fared without the SDS treatment.

Although you may still see signs of SDS in your Saltro-treated fields this season, the effects of the disease will be less than if you hadn't used the treatment due to the higher intrinsic protection it provides and the elimination of early-season plant stress.



Left: Typical SDS leaf symptoms. Middle: Unique blue-colored structures of *Fusarium virguliforme*, the causal organism of SDS, on a mature soybean root. Right: On the left are SDS-infected plants protected by Saltro compared to an untreated row, where SDS symptoms are developing.



# 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 if so, the policy for saving seed of that variety.

**Higher Seeding Rate** A higher seeding rate may be required for bin-run Roundup Ready® soybeans compared to new branded seed.

**Yield Loss** Roundup Ready 2 Yield® soybean, Roundup Ready 2 Xtend® soybean, and XtendFlex® soybean varieties typically have a higher yield opportunity than Roundup Ready® soybean varieties.

**Cleanout Loss** Loss of seed and/or shrink occurs during the seed cleaning and handling processes for bin-run seed.

**Seed Treatment Costs** Treating your seed will add costs—both the cost of the treatment and the application of that treatment.

**Lost Income** Every bushel of saved seed you plant is a bushel you're not selling as commodity grain.

**Increased Seed Management** If you plan to save and bin-run Roundup Ready® soybeans for planting, you will have to manage your harvest operations and grain storage so that the seed isn't co-mingled with other seed that's covered by intellectual property rights.

## High Value of New Branded Seed

### Latest Technology

- // High-yielding soybean technologies
- // Better variety options
- // Leading seed treatment options

### Customer Service

- // Dealer agronomic support before and after the sale
- // Replant policy support
- // Convenient packaging and delivery

### Reliable Germination and Quality

- // Rigorously tested and meets U.S. Federal Seed Act requirements
- // Free of seed-borne diseases
- // Properly stored and conditioned

For a list of Bayer's trait patents go to [cs.bayerpatents.bayer.com](https://cs.bayerpatents.bayer.com)

For questions regarding seed intellectual property, or to anonymously report a saved seed tip, you can contact Bayer in the following ways:

1. Call 1-866-99-BAYER
2. Send a letter: Trait Stewardship, 622 Emerson Rd., Suite 150, Creve Coeur, MO 63141
3. Submit a contact request at [cropscience.bayer.us/contact](https://cropscience.bayer.us/contact) or scan the QR code



Bayer is a member of the Seed Innovation and Protection Alliance. Visit [www.seedpalliance.com](http://www.seedpalliance.com) to learn more. SIFA™ is a trademark of the Seed Innovation and Protection Alliance.

Bayer is a member of Excellence Through Stewardship® (ETS). Bayer products are commercialized in accordance with ETS Product Launch Stewardship Guidance, and in compliance with Bayer's Policy for Commercialization of Biotechnology-Derived Plant Products in Commodity Crops. Commercialized products have been approved for import into key export markets with functioning regulatory systems. Any crop or material produced from this product can only be exported to, or used, processed or sold in countries where all necessary regulatory approvals have been granted. It is a violation of national and international law to move material containing biotech traits across boundaries into nations where import is not permitted. Growers should talk to their grain handler or product purchaser to confirm their buying position for this product. Excellence Through Stewardship® is a registered trademark of Excellence Through Stewardship.

**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 XtendFlex® Technology. ONLY USE FORMULATIONS THAT ARE SPECIFICALLY LABELED FOR SUCH USES AND APPROVED FOR SUCH USE IN THE STATE OF APPLICATION. Contact the U.S. EPA and your state pesticide regulatory agency with any questions about the approval status of dicamba herbicide products for in-crop use with Roundup Ready 2 Xtend® soybeans or products with XtendFlex® Technology.

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

Contact your Bayer retailer, refer to the Bayer Technology Use Guide, or call the technical support line at 1-888-283-6847 for recommended Roundup Ready® Xtend Crop System weed control programs.

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

B.t. products may not yet be registered in all states. Check with your seed brand representative for the registration status in your state.

IMPORTANT IRM INFORMATION: RIB Complete® corn blend products do not require the planting of a structured refuge except in the Cotton-Growing Area where corn earworm is a significant pest. See the IRM/Grower Guide for additional information. Always read and follow IRM requirements.

Roundup Ready® 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 Bayer Technology Use Guide for recommended weed control programs.

Insect control technology provided by Vip3A is utilized under license from Syngenta Crop Protection AG. Herculex® is a registered trademark of Dow AgroSciences LLC. Agrisure Viptera® is a registered trademark of a Syngenta group company. LibertyLink® and the Water Droplet Design® is a trademark of BASF Corporation. Respect the Refuge and Corn Design® and Respect the Refuge® are registered trademarks of National Corn Growers Association. Acceleron®, DroughtGard®, RIB Complete®, Roundup Ready 2 Technology and Design™, Roundup Ready 2 Xtend®, Roundup Ready 2 Yield®, Roundup Ready®, SmartStax®, Trecepta®, VT Double PRO® and XtendFlex® are trademarks of Bayer Group.



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



Seed containing the XtendFlex® traits can only be used to plant a single commercial crop. It is unlawful to save and replant XtendFlex® soybeans. Additional information and limitations on the use of this product are provided in the Technology Stewardship Agreement and the Bayer Technology Use Guide: [tug.bayer.com](http://tug.bayer.com). U.S. patents for Bayer technologies can be found at the following webpage: [cs.bayerpatents.bayer.com](http://cs.bayerpatents.bayer.com)

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 end users 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](http://www.biotradestatus.com).

Seeds containing the Enlist, Herculex and PowerCore traits are protected under one or more U.S. patents which can be found at: [www.traitstewardship.com](http://www.traitstewardship.com). The purchase of these seed traits include a limited license to produce a single crop in the United States. The use of seed from such a crop or the progeny thereof for propagation or seed multiplication or for production or development of a hybrid or different variety of seed is strictly prohibited. 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 Corteva Agriscience Technology Use Agreement and (ii) the Product Use Guides for all technologies in this seed, including the Herbicide Resistance Management (HRM), and Use requirements. 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.

The transgenic soybean event in Enlist E3® soybeans is jointly developed and owned by Corteva Agriscience and M.S. Technologies, L.L.C.™ \* Enlist, Enlist E3, the Enlist E3 logo, and Colex-D are trademarks of Corteva Agriscience and its affiliated companies. Excellence Through Stewardship® is a registered trademark of Excellence Through Stewardship.

Enlist E3® soybean seeds containing the Enlist® trait can only be used to plant a single commercial crop. It is unlawful to save and replant Enlist E3® soybeans. Additional information and limitations on the use of these products are provided in the Corteva Agriscience Technology Use Agreement and Enlist® Soybean Product Use Guide. U.S. patents for Dow AgroSciences technologies can be found at the following webpage: [www.corteva.us/Resources/trait-stewardship.html](http://www.corteva.us/Resources/trait-stewardship.html). Enlist Duo® 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.

## ENLIST® WEED CONTROL SYSTEM—

### PROVEN CONTROL OF TOUGH WEEDS



Enlist Duo® and Enlist One® herbicides with Colex-D® technology are the only herbicides containing 2,4-D that are authorized for preemergence and postemergence use with Enlist E3® soybean crops.

2,4-D choline | Glyphosate | Glufosinate

**Enlist Duo®**  
COLEX-D® technology  
HERBICIDE

- Convenient proprietary blend of 2,4-D choline and glyphosate
- The two sites of action work together to deliver control of yield-robbing weeds and help prevent resistance

**Enlist One®**  
COLEX-D® technology  
HERBICIDE

- Straight-goods 2,4-D choline with additional tank-mix flexibility
- Provides additional tank-mix flexibility with Durango® DMA® herbicide, Liberty® herbicide and other qualified tank-mix products, allowing for a customized weed control program to fit each farm

**On-Target Application**

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

100% 100% 100%	100% 100% 100%	100% 100% 100%
100% 100% 100%	100% 100% 100%	100% 100% 100%
100% 100% 100%	100% 100% 100%	100% 100% 100%

Field Name:

Field Characteristics:

Hybrid/Variety:

Population:

# of Units:

Notes:

100% 100% 100%	100% 100% 100%	100% 100% 100%
100% 100% 100%	100% 100% 100%	100% 100% 100%
100% 100% 100%	100% 100% 100%	100% 100% 100%

Field Name:

Field Characteristics:

Hybrid/Variety:

Population:

# of Units:

Notes:

100% 100% 100%	100% 100% 100%	100% 100% 100%
100% 100% 100%	100% 100% 100%	100% 100% 100%
100% 100% 100%	100% 100% 100%	100% 100% 100%

Field Name:

Field Characteristics:

Hybrid/Variety:

Population:

# of Units:

Notes:

100% 100% 100%	100% 100% 100%	100% 100% 100%
100% 100% 100%	100% 100% 100%	100% 100% 100%
100% 100% 100%	100% 100% 100%	100% 100% 100%

Field Name:

Field Characteristics:

Hybrid/Variety:

Population:

# of Units:

Notes:

1000 1/8 1000 1/8	1000 1/8 1000 1/8	1000 1/8 1000 1/8
	1000 1/8 1000 1/8	1000 1/8 1000 1/8
1000 1/8 1000 1/8	1000 1/8 1000 1/8	1000 1/8 1000 1/8
1000 1/8 1000 1/8	1000 1/8 1000 1/8	1000 1/8 1000 1/8

Field Name:

Field Characteristics:

1000 1/8 1000 1/8	1000 1/8 1000 1/8	1000 1/8 1000 1/8
	1000 1/8 1000 1/8	1000 1/8 1000 1/8
1000 1/8 1000 1/8	1000 1/8 1000 1/8	1000 1/8 1000 1/8
1000 1/8 1000 1/8	1000 1/8 1000 1/8	1000 1/8 1000 1/8

Field Name:

Field Characteristics:

Hybrid/Variety:	Hybrid/Variety:	Hybrid/Variety:	Hybrid/Variety:	Hybrid/Variety:	Hybrid/Variety:
Population:	Population:	Population:	Population:	Population:	Population:
# of Units:	# of Units:	# of Units:	# of Units:	# of Units:	# of Units:

Notes:

Notes:

1000 1/8 1000 1/8	1000 1/8 1000 1/8	1000 1/8 1000 1/8
	1000 1/8 1000 1/8	1000 1/8 1000 1/8
1000 1/8 1000 1/8	1000 1/8 1000 1/8	1000 1/8 1000 1/8
1000 1/8 1000 1/8	1000 1/8 1000 1/8	1000 1/8 1000 1/8

Field Name:

Field Characteristics:

1000 1/8 1000 1/8	1000 1/8 1000 1/8	1000 1/8 1000 1/8
	1000 1/8 1000 1/8	1000 1/8 1000 1/8
1000 1/8 1000 1/8	1000 1/8 1000 1/8	1000 1/8 1000 1/8
1000 1/8 1000 1/8	1000 1/8 1000 1/8	1000 1/8 1000 1/8

Field Name:

Field Characteristics:

Hybrid/Variety:	Hybrid/Variety:	Hybrid/Variety:	Hybrid/Variety:	Hybrid/Variety:	Hybrid/Variety:
Population:	Population:	Population:	Population:	Population:	Population:
# of Units:	# of Units:	# of Units:	# of Units:	# of Units:	# of Units:

Notes:

Notes:



[www.auroracoop.com](http://www.auroracoop.com)