



2023 SEED GUIDE

AURORA COOPERATIVE



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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

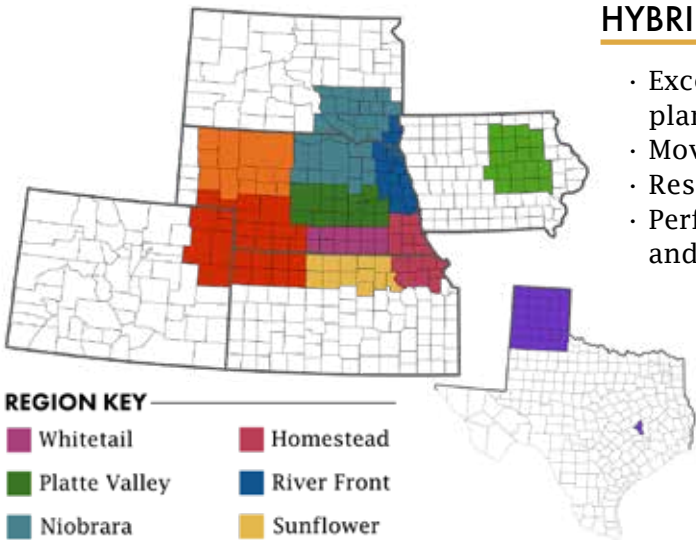
Drydown	
Root Rating	
Early Plant Vigor	
Greensnap	
Stalk Rating	
Stalk Health	
Intactness	
Staygreen	
Drought Tolerance	
pH	

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	
Overall Flex Score	
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

- Dryland and irrigated option
- Moves central and north in PV footprint
- Responds well to high management practices
- Performs well across all planting populations

HYBRID AGRONOMICS

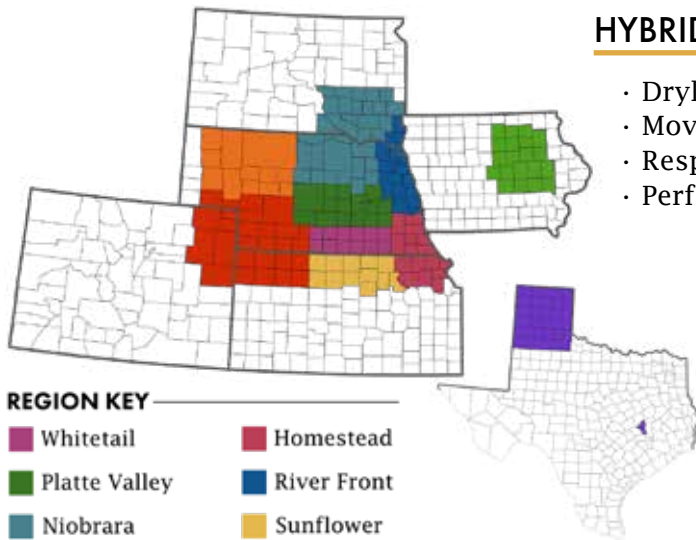
Drydown	
Root Rating	
Early Plant Vigor	
Greensnap	
Stalk Rating	
Stalk Health	
Intactness	
Staygreen	
Drought Tolerance	
pH	

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
Yield Environment Ideal, Variable

HYBRID DESCRIPTION

GDUs to Mid-pollination	1260
GDUs to Black layer	2482
Pollination for Maturity	Medium
Population Tolerance	M-MH
Ear Length Score	
Kernel Rows	16-18
Test Weight	
Overall Flex Score	
Ear Height	Medium-Low
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

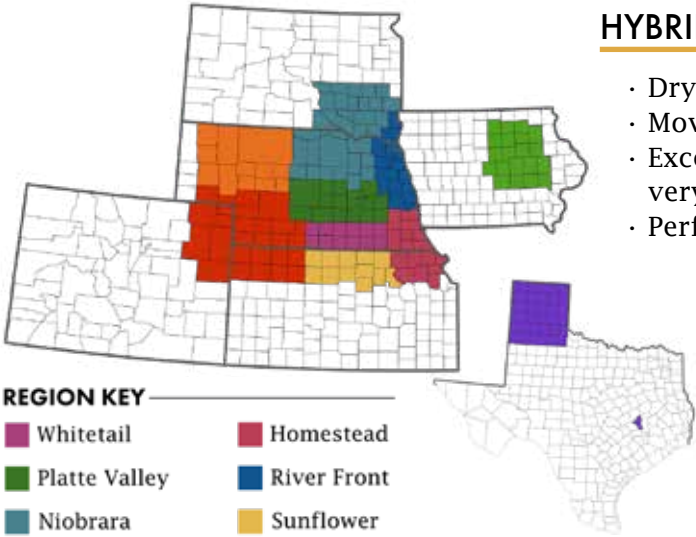
Drydown	
Root Rating	
Early Plant Vigor	
Greensnap	
Stalk Rating	
Stalk Health	
Intactness	
Staygreen	
Drought Tolerance	
pH	

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
Yield Environment 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	
Overall Flex Score	
Ear Height	Medium
Cob Color	Red
Husk Cover	Adequate
Plant Height	Medium

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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

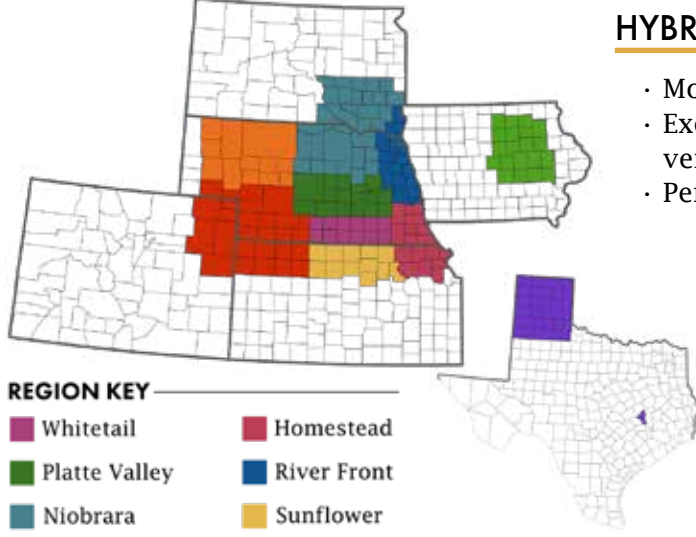
Drydown	
Root Rating	
Early Plant Vigor	
Greensnap	
Stalk Rating	
Stalk Health	
Intactness	
Staygreen	
Drought Tolerance	
pH	

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
Yield Environment 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	
Overall Flex Score	
Ear Height	Medium
Cob Color	Red
Husk Cover	Adequate
Plant Height	Medium

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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



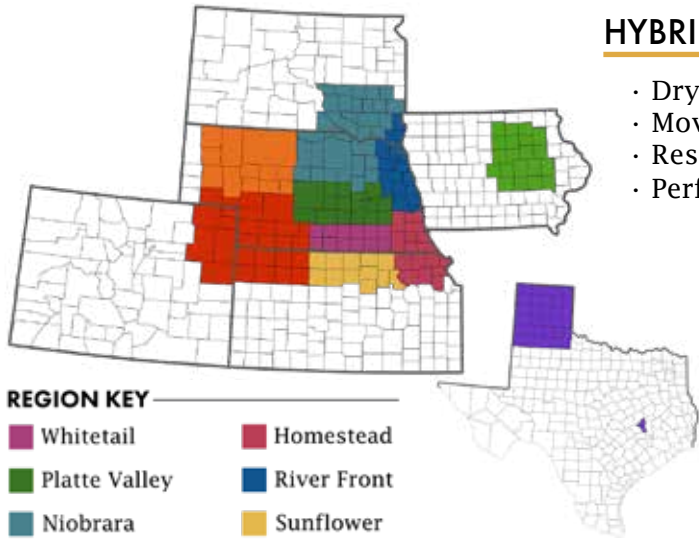
DISEASE RESISTANCE

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
 - Platte Valley
 - Niobrara
 - Cattlemen
 - Chimney Rock
 - Homestead
 - River Front
 - Sunflower
 - Iowa
 - 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
Overall Flex Score
Ear Height Low
Cob Color Red
Husk Cover Long
Plant Height Short

Rating Scale
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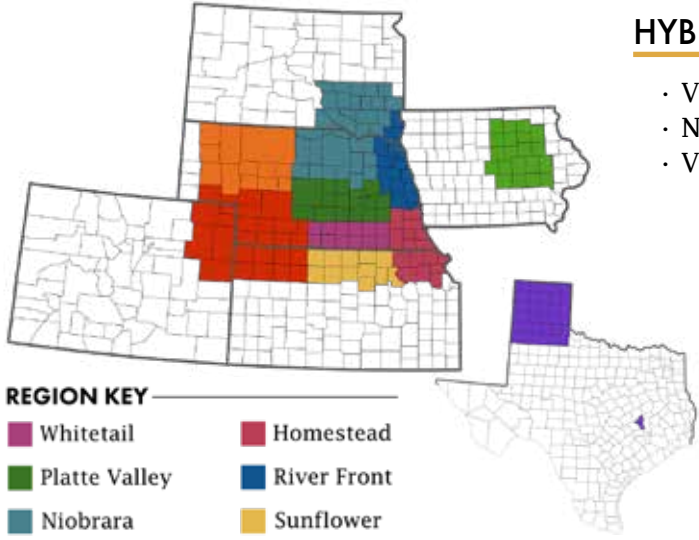


HYBRID HIGHLIGHTS

- 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



- REGION KEY
- Whitetail
 - Platte Valley
 - Niobrara
 - Cattlemen
 - Chimney Rock
 - Homestead
 - River Front
 - Sunflower
 - Iowa
 - 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
Overall Flex Score
Ear Height Medium
Cob Color Red
Husk Cover Adequate
Plant Height Medium

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PV 109-W53 VT2PRIB

NEW

109 DAY



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

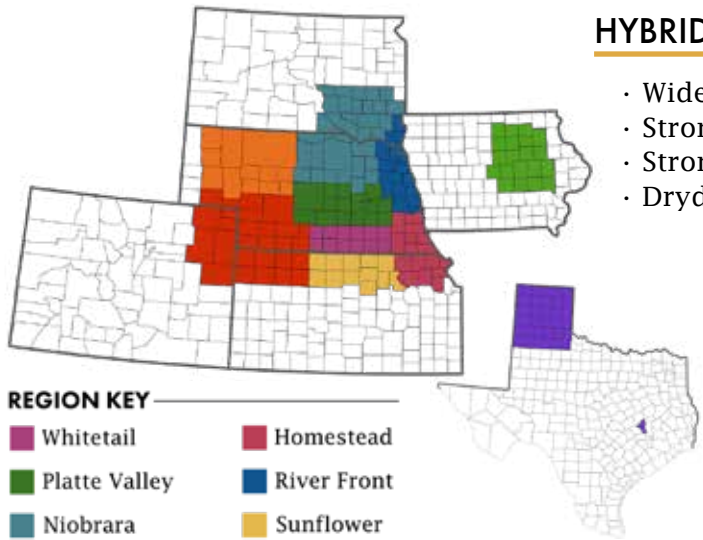
Drydown	
Root Rating	
Early Plant Vigor	
Greensnap	
Stalk Rating	
Stalk Health	
Intactness	
Staygreen	
Drought Tolerance	
pH	

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	
Overall Flex Score	
Ear Height	Medium
Cob Color	Red
Husk Cover	Adequate
Plant Height	Medium

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PV 110 - H20 VT2PRIB

110 DAY



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

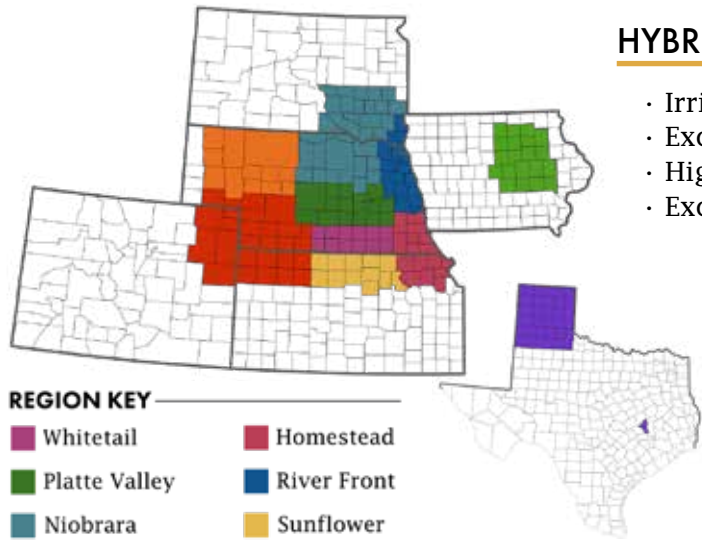
Drydown	
Root Rating	
Early Plant Vigor	
Greensnap	
Stalk Rating	
Stalk Health	
Intactness	
Staygreen	
Drought Tolerance	
pH	

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



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

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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

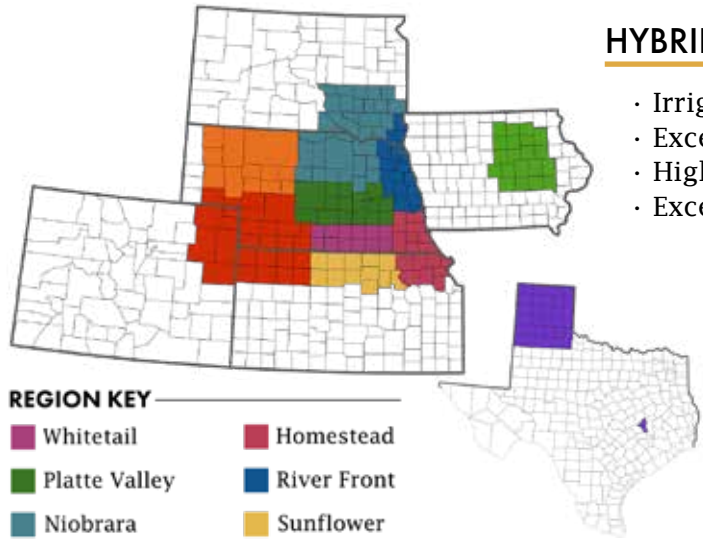
Drydown	<div><div></div><div></div><div></div><div></div><div></div></div>
Root Rating	<div><div></div><div></div><div></div><div></div><div></div></div>
Early Plant Vigor	<div><div></div><div></div><div></div><div></div><div></div></div>
Greensnap	<div><div></div><div></div><div></div><div></div><div></div></div>
Stalk Rating	<div><div></div><div></div><div></div><div></div><div></div></div>
Stalk Health	<div><div></div><div></div><div></div><div></div><div></div></div>
Intactness	<div><div></div><div></div><div></div><div></div><div></div></div>
Staygreen	<div><div></div><div></div><div></div><div></div><div></div></div>
Drought Tolerance	<div><div></div><div></div><div></div><div></div><div></div></div>
pH	<div><div></div><div></div><div></div><div></div><div></div></div>

DISEASE RESISTANCE

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

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	1333
GDUs to Black layer	2626
Pollination for Maturity	Medium
Population Tolerance	MH
Ear Length Score	<div><div></div><div></div><div></div><div></div><div></div></div>
Kernel Rows	16-18
Test Weight	<div><div></div><div></div><div></div><div></div><div></div></div>
Overall Flex Score	<div><div></div><div></div><div></div><div></div><div></div></div>
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 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

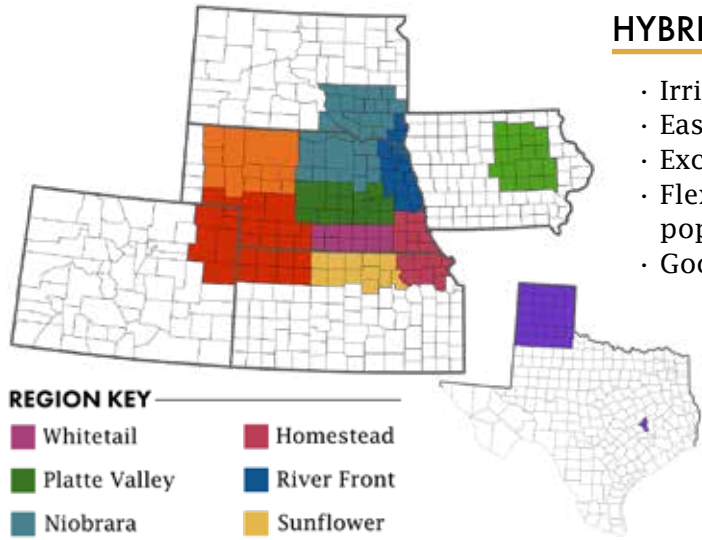
Drydown	<div><div></div><div></div><div></div><div></div><div></div></div>
Root Rating	<div><div></div><div></div><div></div><div></div><div></div></div>
Early Plant Vigor	<div><div></div><div></div><div></div><div></div><div></div></div>
Greensnap	<div><div></div><div></div><div></div><div></div><div></div></div>
Stalk Rating	<div><div></div><div></div><div></div><div></div><div></div></div>
Stalk Health	<div><div></div><div></div><div></div><div></div><div></div></div>
Intactness	<div><div></div><div></div><div></div><div></div><div></div></div>
Staygreen	<div><div></div><div></div><div></div><div></div><div></div></div>
Drought Tolerance	<div><div></div><div></div><div></div><div></div><div></div></div>
pH	<div><div></div><div></div><div></div><div></div><div></div></div>

DISEASE RESISTANCE

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

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	1320
GDUs to Black layer	2790
Pollination for Maturity	Medium
Population Tolerance	M
Ear Length Score	<div><div></div><div></div><div></div><div></div><div></div></div>
Kernel Rows	16
Test Weight	<div><div></div><div></div><div></div><div></div><div></div></div>
Overall Flex Score	<div><div></div><div></div><div></div><div></div><div></div></div>
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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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

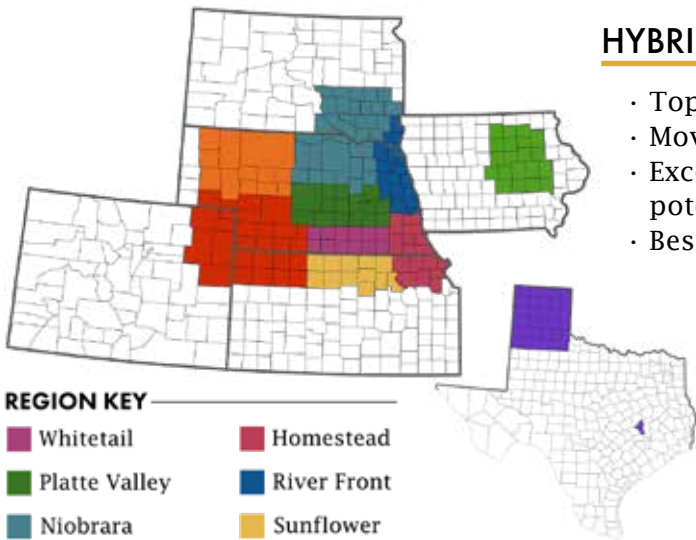
Drydown	
Root Rating	
Early Plant Vigor	
Greensnap	
Stalk Rating	
Stalk Health	
Intactness	
Staygreen	
Drought Tolerance	
pH	

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



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

Rating Scale
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Insect control technology provided by Vip3A is utilized under license from Syngenta Crop Protection AG. Agrisure Viptera® is a registered trademark of a Syngenta group company.

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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

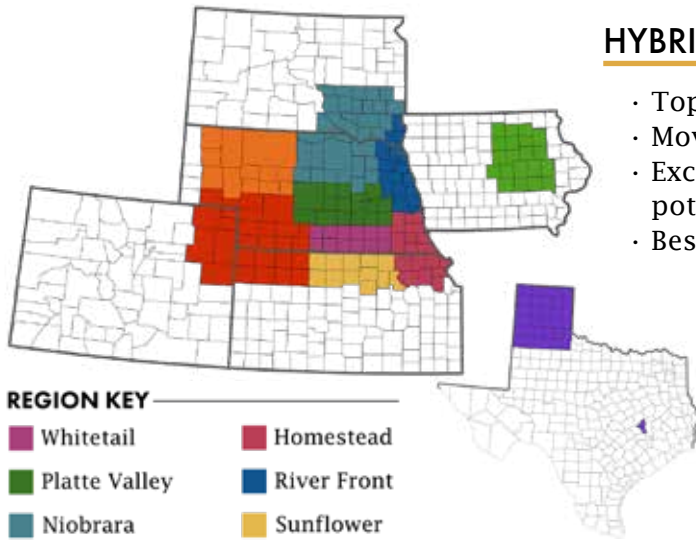
Drydown	
Root Rating	
Early Plant Vigor	
Greensnap	
Stalk Rating	
Stalk Health	
Intactness	
Staygreen	
Drought Tolerance	
pH	

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



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

Rating Scale
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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

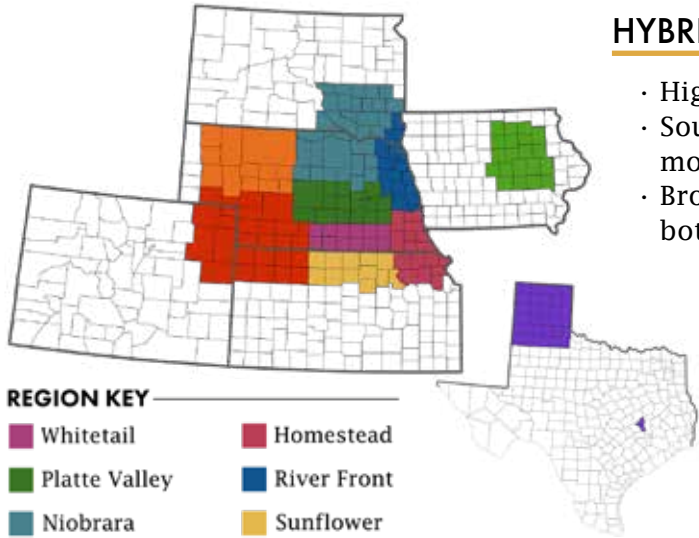
Drydown	
Root Rating	
Early Plant Vigor	
Greensnap	
Stalk Rating	
Stalk Health	
Intactness	
Staygreen	
Drought Tolerance	
pH	

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, 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	
Overall Flex Score	
Ear Height	Medium
Cob Color	Red
Husk Cover	Long
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

- Lead SmartStax option with top yields and wide area of adaptation
- Showy hybrid that hides yield, very good corn on corn
- Excellent disease package
- Solid agronomics allows higher populations for optimum performance

HYBRID AGRONOMICS

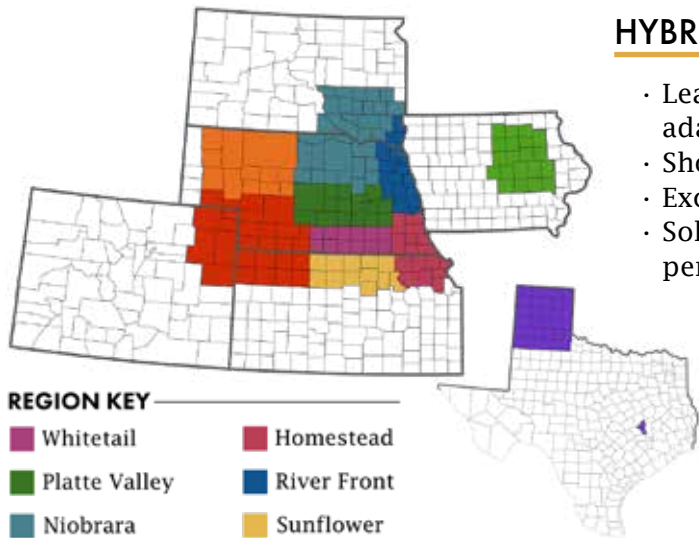
Drydown	
Root Rating	
Early Plant Vigor	
Greensnap	
Stalk Rating	
Stalk Health	
Intactness	
Staygreen	
Drought Tolerance	
pH	

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	1315
GDUs to Black layer	2785
Pollination for Maturity	Medium
Population Tolerance	MH
Ear Length Score	
Kernel Rows	16-18
Test Weight	
Overall Flex Score	
Ear Height	Medium
Cob Color	Red
Husk Cover	Good
Plant Height	Medium-Tall

Rating Scale
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VTDoublePRO[®]
RIB COMPLETE

HYBRID HIGHLIGHTS

- Dryland and irrigated
- Moves south, central, and west central in PV footprint
- Responds best on Platte Valley sand, clay, silt, and loam
- Good choice under better managed acres
- Excellent dual purpose potential
- Good silage option

HYBRID AGRONOMICS

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



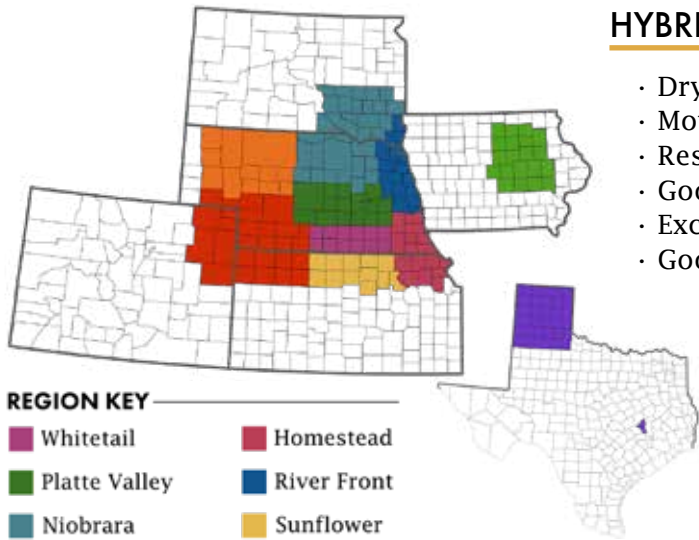
DISEASE RESISTANCE

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
Sulfonyleureas/ALS Inhibitors (Group 2) A
Pigment Inhibitors/HPPD Inhibitors (Group 27) A



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

PLACEMENT RECOMMENDATION

Seed Region
Yield Environment Ideal, Variable

HYBRID DESCRIPTION

GDUs to Mid-pollination 1321
GDUs to Black layer 2629
Pollination for Maturity Medium
Population Tolerance M-MH
Ear Length Score
Kernel Rows 16-18
Test Weight
Overall Flex Score
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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DroughtGard[®] Hybrids with RIB Complete[®] corn blend the refuge seed may not always contain DroughtGard[®] Hybrids trait.

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

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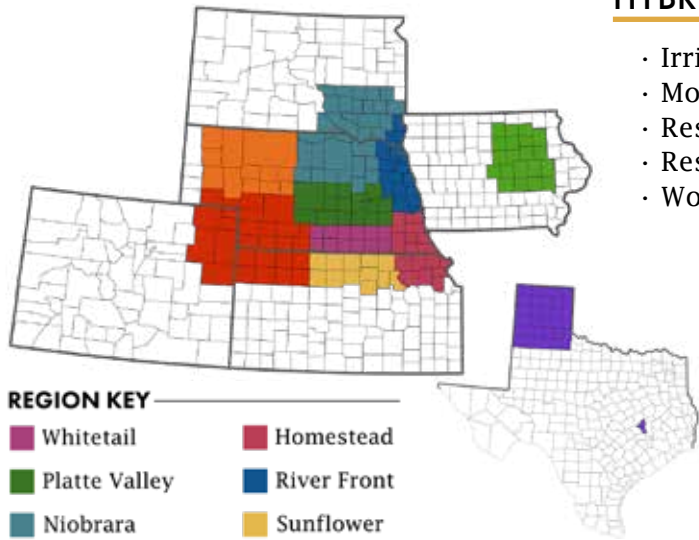


HYBRID HIGHLIGHTS

- Irrigated and dryland
- Moves east, central, and west
- Responds very well on Platte Valley sands
- Responds best on clay, loam, silt, and sand
- 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



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

PLACEMENT RECOMMENDATION

Seed Region
Yield Environment Ideal, Variable

HYBRID DESCRIPTION

GDUs to Mid-pollination 1393
GDUs to Black layer 2772
Pollination for Maturity Medium
Population Tolerance M-MH
Ear Length Score
Kernel Rows 16-18
Test Weight
Overall Flex Score
Ear Height Medium-High
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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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

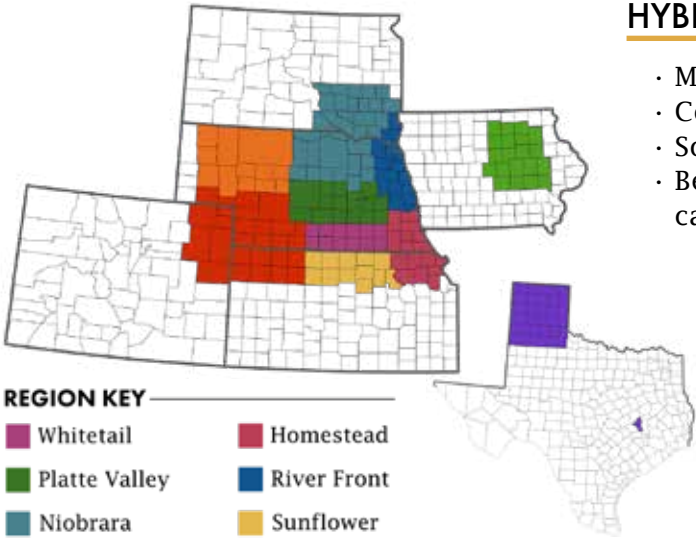
Drydown	
Root Rating	
Early Plant Vigor	
Greensnap	
Stalk Rating	
Stalk Health	
Intactness	
Staygreen	
Drought Tolerance	
pH	

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	
Overall Flex Score	
Ear Height	Medium
Cob Color	Red
Husk Cover	Adequate
Plant Height	Medium

Rating Scale
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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	



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	
Overall Flex Score	
Ear Height	Medium
Cob Color	Red
Husk Cover	Adequate
Plant Height	Medium-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

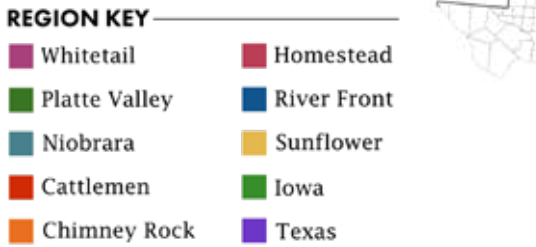
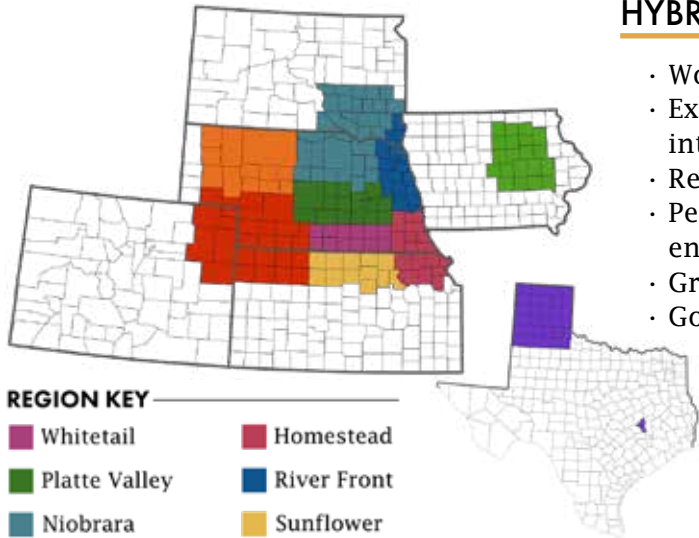
Drydown	<div><div></div><div></div><div></div><div></div><div></div></div>
Root Rating	<div><div></div><div></div><div></div><div></div><div></div></div>
Early Plant Vigor	<div><div></div><div></div><div></div><div></div><div></div></div>
Greensnap	<div><div></div><div></div><div></div><div></div><div></div></div>
Stalk Rating	<div><div></div><div></div><div></div><div></div><div></div></div>
Stalk Health	<div><div></div><div></div><div></div><div></div><div></div></div>
Intactness	<div><div></div><div></div><div></div><div></div><div></div></div>
Staygreen	<div><div></div><div></div><div></div><div></div><div></div></div>
Drought Tolerance	<div><div></div><div></div><div></div><div></div><div></div></div>
pH	<div><div></div><div></div><div></div><div></div><div></div></div>

DISEASE RESISTANCE

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

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

HYBRID DESCRIPTION

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

Rating Scale
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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

HYBRID AGRONOMICS

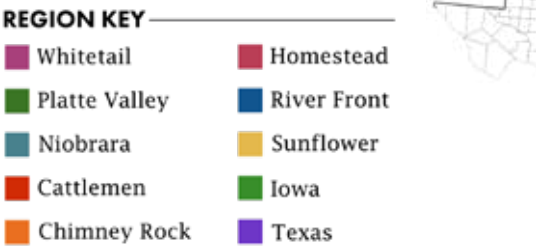
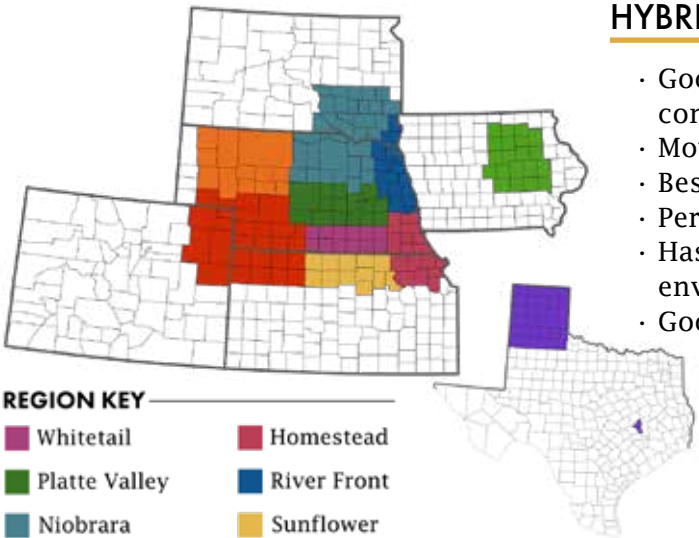
Drydown	<div><div></div><div></div><div></div><div></div><div></div></div>
Root Rating	<div><div></div><div></div><div></div><div></div><div></div></div>
Early Plant Vigor	<div><div></div><div></div><div></div><div></div><div></div></div>
Greensnap	<div><div></div><div></div><div></div><div></div><div></div></div>
Stalk Rating	<div><div></div><div></div><div></div><div></div><div></div></div>
Stalk Health	<div><div></div><div></div><div></div><div></div><div></div></div>
Intactness	<div><div></div><div></div><div></div><div></div><div></div></div>
Staygreen	<div><div></div><div></div><div></div><div></div><div></div></div>
Drought Tolerance	<div><div></div><div></div><div></div><div></div><div></div></div>
pH	<div><div></div><div></div><div></div><div></div><div></div></div>

DISEASE RESISTANCE

Goss' Wilt	<div><div></div><div></div><div></div><div></div><div></div></div>
Gray Leaf Spot	<div><div></div><div></div><div></div><div></div><div></div></div>
Northern Leaf Blight	<div><div></div><div></div><div></div><div></div><div></div></div>
Southern Leaf Blight	<div><div></div><div></div><div></div><div></div><div></div></div>
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Southern Rust	<div><div></div><div></div><div></div><div></div><div></div></div>
Common Rust	<div><div></div><div></div><div></div><div></div><div></div></div>
Diplodia Ear Rot	<div><div></div><div></div><div></div><div></div><div></div></div>
Tar Spot Complex	<div><div></div><div></div><div></div><div></div><div></div></div>

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

Rating Scale
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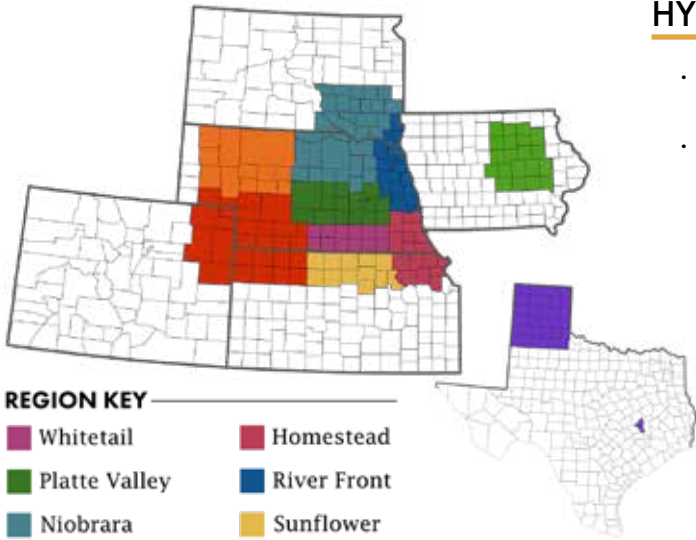
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HYBRID HIGHLIGHTS

- 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

Rating Scale
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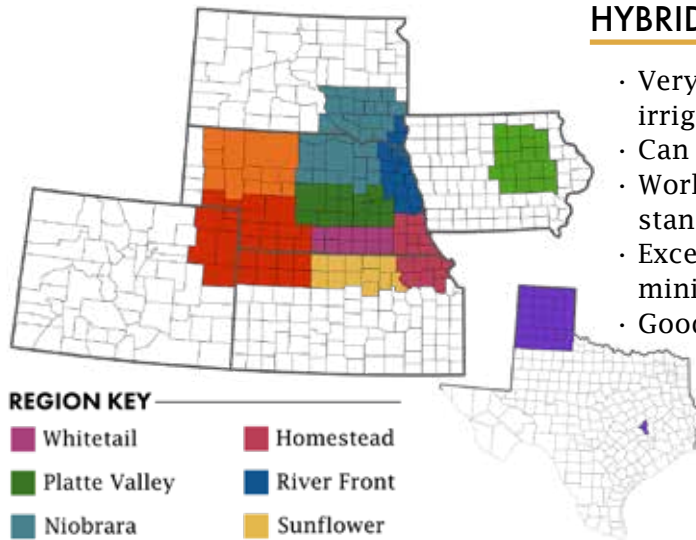
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HYBRID HIGHLIGHTS

- 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



PLACEMENT RECOMMENDATION

Seed Region
Yield Environment 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
Overall Flex Score
Ear Height Medium-High
Cob Color Red
Husk Cover Adequate
Plant Height Medium

Rating Scale
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<div>  <div>Hybrid</div> </div>	<div> <div> </div> <div> </div> </div>	<div> <div> </div> <div> </div> </div>	<div> <div> </div> <div> </div> </div>	<div> <div> </div> <div> </div> </div>	<div> <div> </div> <div> </div> </div>	<div> <div> </div> <div> </div> </div>	<div> <div> </div> <div> </div> </div>	<div> <div> </div> <div> </div> </div>	<div> <div> </div> <div> </div> </div>	<div> <div> </div> <div> </div> </div>	<div> <div> </div> <div> </div> </div>
PV101-N89 VT2PRIB	1227	2417	Medium	4	14-16	3	3	Medium	Red	Short	Med. Tall
PV102-C39 VT2PRIB	1260	2482	Medium	3	16-18	5	4	Med. Low	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 SSPRIB NEW	1281	2524	Medium	3	16-18	4	4	Medium	Red	Adequate	Medium
PV109-W53 VT2PRIB NEW	1357	2673	Medium	4	14-16	3	3.5	Medium	Red	Adequate	Medium
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 NEW	1382	2722	Medium	4	14-16	5	4	Medium	Red	Long	Med. Tall
PV112-B13 SSRIB NEW	1315	2785	Medium	3	16-18	4	4	Medium	Red	Good	Med. Tall
PV113-B40 DGVT2PRIB	1321	2629	Medium	3	16-18	3	3	Medium	Red	Adequate	Med. Tall
PV113-C51 Trecepta	1393	2772	Medium	3	16-18	4	3.5	Med. High	Red	Adequate	Med. Tall
PV113-V89 VT2PRIB	1364	2714	Medium	4	16-18	5	4.5	Medium	Red	Adequate	Medium
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
PV115-Z83 SSRIB NEW	1311	2609	Medium	4	18-20	3	4	Medium	Red	Long	Medium
PV116-H31 VT2PRIB	1360	2860	Medium	5	16-18	4	4.5	Med. High	Red	Adequate	Medium

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3	4	4	4	4	3	4	3	3	3.5	4	3	3	4	2	4	2	3	4	2.5
3	4	4	3.5	4	3.5	4	4	4	4	4	4	3	4	5	4	4	3	4	3

DROUGHTGARD® HYBRIDS CAN DO MORE WITH LESS WATER

DroughtGard®
HYBRIDS

UNIQUE SELECTION AND DUAL ADVANCEMENT PROCESS

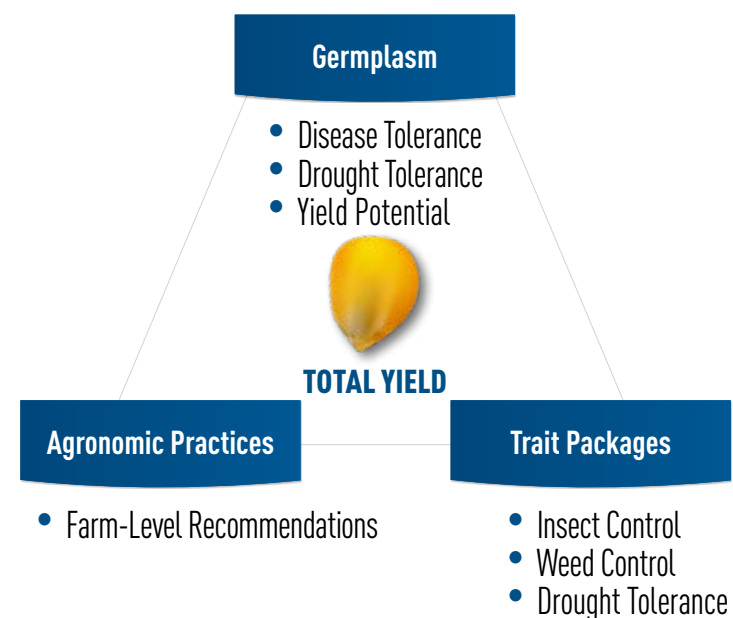
DroughtGard®
HYBRIDS

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

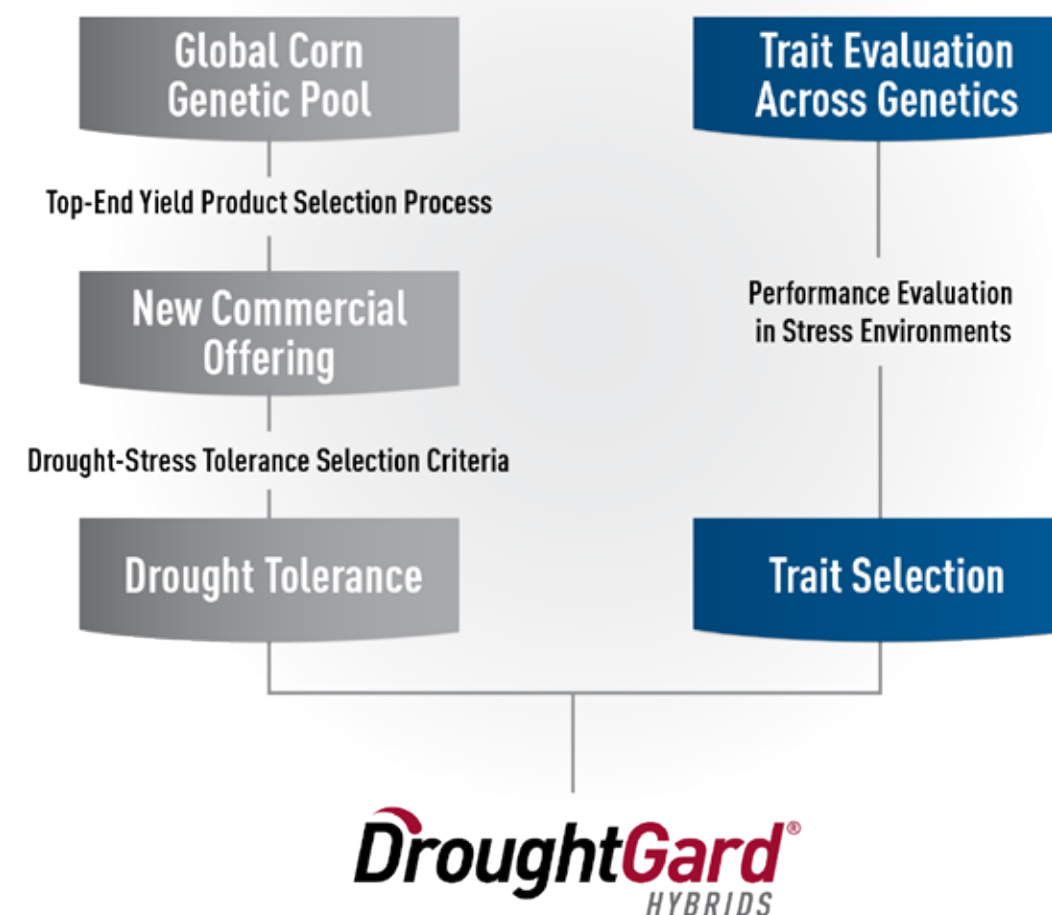


>5 bu/a ADVANTAGE*
versus drought-tolerant competitors



*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



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

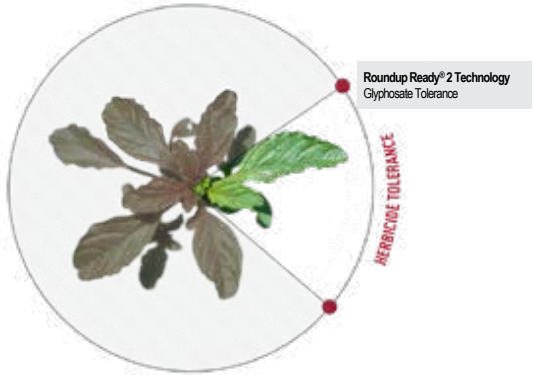
PROVEN DEFENSE AGAINST ABOVE-GROUND YIELD ROBBERS



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

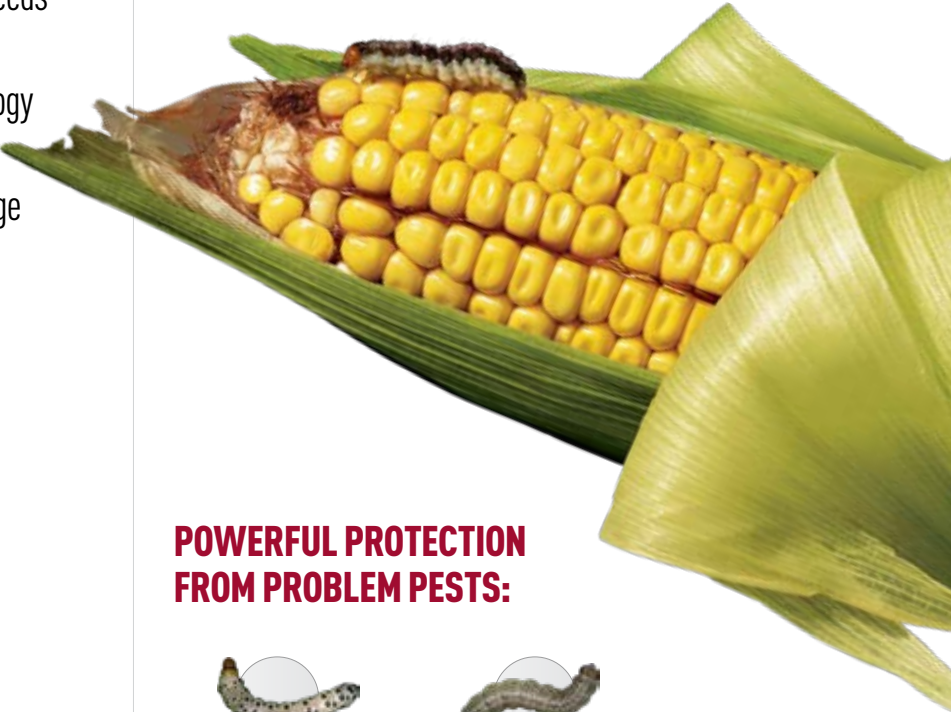


CUT DOWN ON WEEDS, NOT YIELD

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.

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:



COMPARE YOUR ABOVE-GROUND PROTECTION OPTIONS



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

Modes of action equal control of pest
****** Dual-mode activity ***** Single-mode activity

¹VT Double PRO® RIB Complete® is a corn seed blend of 95% B.T. seed and 5% non-B.T. seed.
²Optimum® AcreMax® is a RIB blend product.
³CryIA105 and Cry2Ab2 from B.T. controls or suppresses corn earworm.
⁴Pioneer claims suppression of corn earworm on the Optimum® AcreMax® and Herculex® 1 labels.



For more information visit
TRAITS.BAYER.COM

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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®, 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.

DEFEND LIKE A PRO

SmartStax® 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® PRO Technology will provide three modes of action against corn rootworm for the strongest biotech defense* available in 2022.

WHAT SETS SMARTSTAX® PRO TECHNOLOGY APART

- Will be the first product with **THREE** modes of action for corn rootworm control
- Will combine the proven benefits of **SmartStax® 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.



QUANTIFYING THE DAMAGE

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%.¹ In addition, root lodging can impede harvesting, further reducing grain yield by 15%–34%.²



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

	Three Modes-of-Action Products for Corn Rootworm		Dual Modes-of-Action Products for Corn Rootworm		
	SmartStax® PRO RIB Complete® Corn Blend	SmartStax® RIB Complete® Corn Blend	Orome® Products	Optimum® AcreMax® XTreme	Agrisure Duracade® 5222 E-Z Refuge
PRIMARY PESTS					
Corn Rootworm (Northern & Western)	***	**	**	**	**
European Corn Borer	***	***	**	**	**
Southwestern Corn Borer	***	***	**	**	***
Corn Earworm ^{1,2}	**	**			*
Fall Armyworm	***	***	*	*	**
Black Cutworm	*	*	*	*	**
HERBICIDE TOLERANCE	Roundup Ready® 2 Technology and LibertyLink® Technology	Roundup Ready® 2 Technology and LibertyLink® Technology	Roundup Ready® 2 Technology and LibertyLink® Technology	Roundup Ready® 2 Technology and LibertyLink® Technology	Glyphosate and/or LibertyLink® Technology

Modes of action equal control of pest
*** Triple-mode activity ** Dual-mode activity * Single-mode activity

¹Corteva Agriscience claims suppression of corn earworm with Herculex® II Technology
²Syngenta claims suppression of corn earworm with BT11.

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

ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. *Not all 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. Glyphosate will kill crops that are not tolerant to glyphosate. Herculex® is a registered trademark of Dow AgroSciences LLC. LibertyLink® and the Water Droplet Design® is a trademark of BASF Corporation. Respect the Refuge and Corn Design® and Respect the Refuge® are registered trademarks of National Corn Growers Association. RIB Complete®, Roundup Ready 2 Technology and Design®, Roundup Ready® and SmartStax® are trademarks of Bayer Group. ©2021 Bayer Group. All rights reserved.



CONTACT YOUR LOCAL BAYER REPRESENTATIVE TO LEARN MORE ABOUT SMARTSTAX® 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



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%.¹ In addition, root lodging can impede harvesting, further reducing grain yield by 15%-34%.²



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 ROOTWORM
(NORTHERN & WESTERN)



EUROPEAN CORN BORER



SOUTHWESTERN
CORN BORER



CORN EARWORM



FALL ARMYWORM



BLACK CUTWORM

COMPARE YOUR CORN ROOTWORM PROTECTION OPTIONS



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
PRIMARY PESTS					
Corn Rootworm (Northern & Western)	**	**	**	*	*
European Corn Borer	***	**	**	**	**
Southwestern Corn Borer	***	**	**	**	**
Corn Earworm ^{2, 4}	**			**	
Fall Armyworm	***	*	*	**	*
Black Cutworm	*	*	*		*
HERBICIDE TOLERANCE	Roundup Ready® 2 Technology/LibertyLink®	Roundup Ready® Corn 2/LibertyLink®	Roundup Ready® Corn 2/LibertyLink®	Roundup Ready® 2 Technology	Roundup Ready® Corn 2/LibertyLink®
REFUGE (Corn-Growing Area)	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
REFUGE EXAMPLE (Corn-Growing Area)					

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. ²Pioneer claims suppression of corn earworm on the Optimum® AcreMax® XTreme® and Optimum® AcreMax® Xtra labels. ³Genuity® VT Triple PRO® RIB Complete® and Optimum® AcreMax® Xtra are corn seed blends of 50% B.t. seed and 50% non-B.t. seed. ⁴Cry1A.105 and Cry2Ab2 from B.t. controls or suppresses corn earworm.



For more information visit
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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.

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®
PRIMARY PESTS				
European corn borer	**	**	**	**
Southwestern corn borer	***	**	***	***
Fall armyworm	***	**	**	**
Corn earworm ^{1,2}	***	**	*	*
Western bean cutworm	*		*	*
Black cutworm	*		**	**
HERBICIDE TECHNOLOGY	Roundup Ready® 2 Technology	Roundup Ready® 2 Technology	Glyphosate	Roundup Ready® 2 Technology / LibertyLink®
REFUGE (Corn-Growing Area)	5% Refuge-in-a-Bag	5% Refuge-in-a-Bag	5% Refuge-in-a-Bag	5% Refuge-in-a-Bag
REFUGE EXAMPLES (Corn-Growing Area)				

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

¹Pioneer claims suppression of corn earworm with Herculex I; Syngenta claims suppression of corn earworm with Bt11.
²Cry1A, 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

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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.

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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.

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



HYBRID CORN SEED



B09Z08AM™

Leader type hybrid designed 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 include 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

Very LowVery High

(Consult a Brevant seeds representative for specific recommendations on planting populations.)

SOIL ADAPTABILITY

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

CROP ROTATION

- ✎ Continuous Corn
- ★ Corn / Soybean

FUNGICIDE RESPONSE

LowHigh

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
- NA 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

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YIELD ENVIRONMENTS

- ★ Highly Productive
- ✓ Moderate
- ✓ Low

CROP MANAGEMENT

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

POPULATION

Very LowVery High

(Consult a Brevant seeds representative for specific recommendations on planting populations.)

SOIL ADAPTABILITY

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

CROP ROTATION

- ✓ Continuous Corn
- ★ Corn / Soybean

FUNGICIDE RESPONSE

LowHigh

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..... 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**

B10H24Q™

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.

YIELD ENVIRONMENTS

- ★ Highly Productive
- ✓ Moderate
- ✓ Low

CROP MANAGEMENT

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

POPULATION

Very LowVery High

(Consult a Brevant seeds representative for specific recommendations on planting populations.)

SOIL ADAPTABILITY

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

CROP ROTATION

- ✓ Continuous Corn
- ★ Corn / Soybean

FUNGICIDE RESPONSE

LowHigh

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..... 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

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B10H24AM™

Trait versions with same base



YIELD ENVIRONMENTS

- ★ Highly Productive
- ✓ Moderate
- ✓ Low

CROP MANAGEMENT

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

POPULATION

Very LowVery High

(Consult a Brevant seeds representative for specific recommendations on planting populations.)

SOIL ADAPTABILITY

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

CROP ROTATION

- ✓ Continuous Corn
- ★ Corn / Soybean

FUNGICIDE RESPONSE

LowHigh

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..... 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**



B12C01Q™

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	CROP MANAGEMENT
★ Highly Productive ★ Moderate ✓ Low	✓ Early Planting ✓ Late Planting ✓ Delayed Harvest
SOIL ADAPTABILITY	CROP ROTATION
✓ Poorly Drained Soils ★ Sandy Soils ✓ Clay Soils	✓ Continuous Corn ★ Corn / Soybean
AGRONOMICS	DISEASE TOLERANCE
✓ Stress Emergence ★ Stalks ★ Roots ★ Green Snap ✓ Stay Green ★ Drought Tolerance ★ High pH Soil Tolerance ★ Test Weight ✓ Husk Cover	⚙ 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

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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Trait versions with same base
B12C01AM™
B12C01™



POPULATION
<div><div></div><div></div><div></div><div></div><div></div></div> <div>Very LowVery High</div> <div>(Consult a Brevant seeds representative for specific recommendations on planting populations.)</div>
FUNGICIDE RESPONSE
<div><div></div><div></div><div></div></div> <div>LowHigh</div>
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**



B12M18Q™

112 RM

Widely adapted, stable product that competes well in most yield environments and stands out for overall agronomics.

An early silker with heavy test weight, solid agronomics and stability in both AM and Q versions.
Standability is a strength with above average stalks, roots and green snap.


Good gray leaf spot and northern corn leaf blight tolerance make it a good choice for fields with a history of these foliar diseases.
Excellent Goss`s wilt, drought tolerance and green snap scores for the western corn belt.
Top choice for continuous corn acres due to strong stalks, roots and gray leaf spot tolerance.

YIELD ENVIRONMENTS	CROP MANAGEMENT
★ Highly Productive ★ Moderate ✓ Low	✓ Early Planting ★ Late Planting ★ Delayed Harvest
SOIL ADAPTABILITY	CROP ROTATION
★ Poorly Drained Soils ✓ Sandy Soils ★ Clay Soils	★ Continuous Corn ★ Corn / Soybean
AGRONOMICS	DISEASE TOLERANCE
✓ Stress Emergence ✓ Stalks ★ Roots ★ Green Snap ⚙ Stay Green ✓ Drought Tolerance NA High pH Soil Tolerance ★ Test Weight ✓ Husk Cover	★ 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

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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Trait versions with same base
B12M18AM™



POPULATION
<div><div></div><div></div><div></div><div></div><div></div></div> <div>Very LowVery High</div> <div>(Consult a Brevant seeds representative for specific recommendations on planting populations.)</div>
FUNGICIDE RESPONSE
<div><div></div><div></div><div></div></div> <div>LowHigh</div>
CHARACTERISTICS
Relative Maturity Range..... 110-114 GDUs to Mid-Silk..... 1380 GDUs to Black Layer..... 2680 Plant Height.....Medium Ear Height.....Medium 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**



B13J23YHR™

NEW



113 RM

High yield potential and reliable agronomics for a wide area of adaptation.

Good stress emergence for early or high residue planting.

Very good stalk and root strength.

Full flex ear that benefits from more moderate planting populations.

Strong Goss`s wilt tolerance.

Above average tolerance to GLS and NCLB that will still benefit from a foliar fungicide in areas of high pressure.

YIELD ENVIRONMENTS	CROP MANAGEMENT
<div><div>★</div>Highly Productive</div> <div><div>★</div>Moderate</div> <div><div>✓</div>Low</div>	<div><div>★</div>Early Planting</div> <div><div>✓</div>Late Planting</div> <div><div>★</div>Delayed Harvest</div>
SOIL ADAPTABILITY	CROP ROTATION
<div><div>★</div>Poorly Drained Soils</div> <div><div>✓</div>Sandy Soils</div> <div><div>★</div>Clay Soils</div>	<div><div>⚙️</div>Continuous Corn</div> <div><div>★</div>Corn / Soybean</div>
AGRONOMICS	DISEASE TOLERANCE
<div><div>★</div>Stress Emergence</div> <div><div>★</div>Stalks</div> <div><div>✓</div>Roots</div> <div><div>✓</div>Green Snap</div> <div><div>✓</div>Stay Green</div> <div><div>✓</div>Drought Tolerance</div> <div><div>NA</div>High pH Soil Tolerance</div> <div><div>★</div>Test Weight</div> <div><div>✓</div>Husk Cover</div>	<div><div>✓</div>Gray Leaf Spot</div> <div><div>✓</div>NCLB</div> <div><div>★</div>Tar Spot</div> <div><div>✓</div>Goss's Wilt</div> <div><div>✓</div>SCLB</div> <div><div>✓</div>S. Corn Rust</div> <div><div>✓</div>Anthracnose Stalk Rot</div> <div><div>★</div>Fusarium Ear Rot</div> <div><div>✓</div>Diplodia Ear Rot</div> <div><div>NA</div>Giberella Ear Rot</div>

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Trait versions with same base
B13J23AM™



POPULATION
<div><div></div><div></div><div></div><div></div><div></div></div> <div>Very LowVery High</div> <div>(Consult a Brevant seeds representative for specific recommendations on planting populations.)</div>
FUNGICIDE RESPONSE
<div><div></div><div></div><div></div></div> <div>LowHigh</div>
CHARACTERISTICS
Relative Maturity Range..... 111-115 GDUs to Mid-Silk..... 1400 GDUs to Black Layer..... 2780 Plant Height.....Medium Ear Height..... Medium Ear Flex..... Full Cob Color..... Pink
HERBICIDE TOLERANCES



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



B13K20Q™

NEW



113 RM

Outstanding foliar health combined with exceptional yield potential make this a leader hybrid with wide adaptability.

Moderate statured hybrid with outstanding staygreen and late season eye appeal.

Very good tolerance to gray leaf spot, northern corn leaf blight, and Goss`s wilt.

Good root and stalk strength combined with good green snap tolerance.

Very strong stress emergence scores for early or high residue planting.

Semi-flex ear style supports a wide range of planting populations.

YIELD ENVIRONMENTS	CROP MANAGEMENT
<div><div>★</div>Highly Productive</div> <div><div>★</div>Moderate</div> <div><div>✓</div>Low</div>	<div><div>★</div>Early Planting</div> <div><div>★</div>Late Planting</div> <div><div>✓</div>Delayed Harvest</div>
SOIL ADAPTABILITY	CROP ROTATION
<div><div>★</div>Poorly Drained Soils</div> <div><div>✓</div>Sandy Soils</div> <div><div>★</div>Clay Soils</div>	<div><div>★</div>Continuous Corn</div> <div><div>★</div>Corn / Soybean</div>
AGRONOMICS	DISEASE TOLERANCE
<div><div>★</div>Stress Emergence</div> <div><div>✓</div>Stalks</div> <div><div>✓</div>Roots</div> <div><div>★</div>Green Snap</div> <div><div>★</div>Stay Green</div> <div><div>✓</div>Drought Tolerance</div> <div><div>NA</div>High pH Soil Tolerance</div> <div><div>★</div>Test Weight</div> <div><div>✓</div>Husk Cover</div>	<div><div>★</div>Gray Leaf Spot</div> <div><div>★</div>NCLB</div> <div><div>★</div>Tar Spot</div> <div><div>★</div>Goss's Wilt</div> <div><div>✓</div>SCLB</div> <div><div>✓</div>S. Corn Rust</div> <div><div>★</div>Anthracnose Stalk Rot</div> <div><div>⚙️</div>Fusarium Ear Rot</div> <div><div>✓</div>Diplodia Ear Rot</div> <div><div>NA</div>Giberella Ear Rot</div>

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Trait versions with same base
B13K20AM™



POPULATION
<div><div></div><div></div><div></div><div></div><div></div></div> <div>Very LowVery High</div> <div>(Consult a Brevant seeds representative for specific recommendations on planting populations.)</div>
FUNGICIDE RESPONSE
<div><div></div><div></div><div></div></div> <div>LowHigh</div>
CHARACTERISTICS
Relative Maturity Range..... 111-115 GDUs to Mid-Silk..... 1380 GDUs to Black Layer..... 2700 Plant Height.....Medium Ear Height..... Moderately High Ear Flex..... Semi-Flex Cob Color..... Salmon
HERBICIDE TOLERANCES



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



B14G14AM™
NEW 

114 RM

Industry leading hybrid for yield potential, agronomics and stability in the 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	CROP MANAGEMENT
<ul style="list-style-type: none">★ Highly Productive★ Moderate✓ Low	<ul style="list-style-type: none">★ Early Planting✓ Late Planting✓ Delayed Harvest
SOIL ADAPTABILITY	CROP ROTATION
<ul style="list-style-type: none">✓ Poorly Drained Soils✓ Sandy Soils✓ Clay Soils	<ul style="list-style-type: none">✎ Continuous Corn★ Corn / Soybean
AGRONOMICS	DISEASE TOLERANCE
<ul style="list-style-type: none">★ Stress Emergence✓ Stalks✓ Roots★ Green Snap★ Stay Green✓ Drought ToleranceNA High pH Soil Tolerance★ Test Weight✓ Husk Cover	<ul style="list-style-type: none">✓ Gray Leaf Spot✓ NCLB✓ Tar Spot✓ Goss's Wilt✓ SCLB✎ S. Corn Rust✓ Anthracnose Stalk Rot✓ Fusarium Ear Rot★ Diplodia Ear RotNA Giberella Ear Rot

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KEY

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



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 good brittle tolerance support western yield performance.

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





YIELD ENVIRONMENTS	CROP MANAGEMENT
<ul style="list-style-type: none">★ Highly Productive✓ Moderate✓ Low	<ul style="list-style-type: none">✎ Early Planting✓ Late Planting✓ Delayed Harvest
SOIL ADAPTABILITY	CROP ROTATION
<ul style="list-style-type: none">✎ Poorly Drained Soils✓ Sandy Soils✓ Clay Soils	<ul style="list-style-type: none">✎ Continuous Corn★ Corn / Soybean
AGRONOMICS	DISEASE TOLERANCE
<ul style="list-style-type: none">✎ Stress Emergence✓ Stalks✓ Roots✓ Green Snap✎ Stay Green✓ Drought ToleranceNA High pH Soil Tolerance★ Test Weight✓ Husk Cover	<ul style="list-style-type: none">✓ Gray Leaf Spot✎ NCLBNA Tar Spot✎ Goss's Wilt✓ SCLB✓ S. Corn Rust✎ Anthracnose Stalk Rot★ Fusarium Ear Rot✓ Diplodia Ear RotNA Giberella Ear Rot

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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KEY

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



HYBRID CORN SEED



CORN

NK1082



RM: 110

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

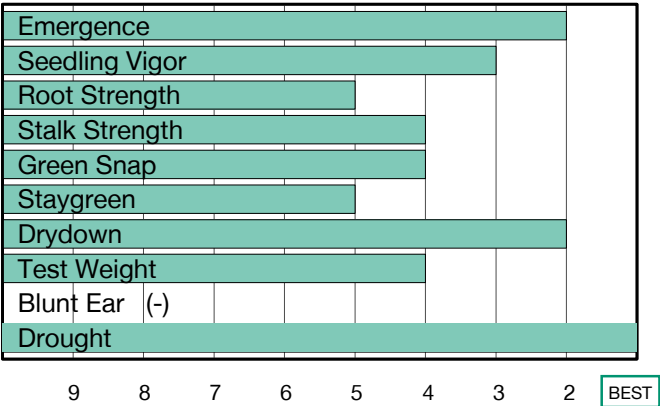
Brands Available: NK1082-5222A E-Z Refuge
NK1082-3220A E-Z Refuge

EXCELLENT YIELD POTENTIAL ACROSS THE ENTIRE CORN BELT WITH AGRISURE ARTESIAN TECHNOLOGY

- Broadly adapted hybrid for all yield environments
- Moderate plant stature with great emergence for earlier planting window
- Flexible trait offering for a step change in above- and below-ground management



Agronomic Characteristics



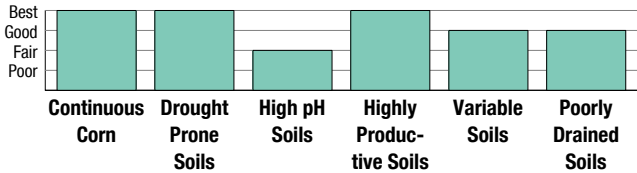
Disease Tolerance

Gray Leaf Spot	4
Northern Corn Leaf Blight	6
Goss's Wilt	3
Bacterial Leaf Streak	4
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
280 bu/Ac	34,000
240 bu/Ac	33,500
200 bu/Ac	32,000
160 bu/Ac	28,000
120 bu/Ac	23,000

For more information or to view product performance data: www.nkcorn.com www.nkfieldforged.com (800) 258-0521



syngenta.

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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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.

Published May 03, 2021. For use until April 30, 2022.

CORN

NK1188



RM: 111

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

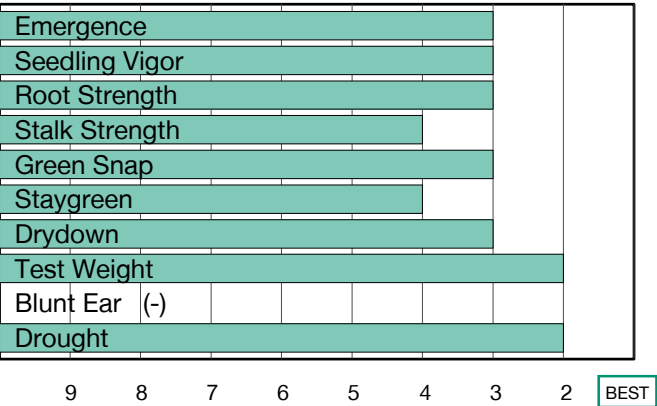
Brands Available: NK1188-5122 E-Z Refuge
NK1188-3120 E-Z Refuge

CONSISTENT YIELD POTENTIAL AND AGRONOMICS ACROSS ENVIRONMENTS

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



Agronomic Characteristics



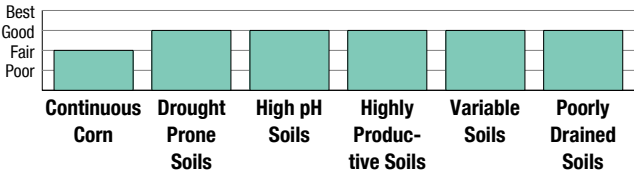
Disease Tolerance

Gray Leaf Spot	4
Northern Corn Leaf Blight	3
Goss's Wilt	6
Bacterial Leaf Streak	4
Southern Corn Leaf Blight	6
Eyespot	-
Anthracnose Stalk Rot	3
Tar Spot	4
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
280 bu/Ac	38,000
240 bu/Ac	33,500
200 bu/Ac	29,000
160 bu/Ac	24,500
120 bu/Ac	19,500

For more information or to view product performance data: www.nkcorn.com www.nkfieldforged.com (800) 258-0521



syngenta.

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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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.

Published May 03, 2021. For use until April 30, 2022.

CORN

NK1523



RM: 115

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

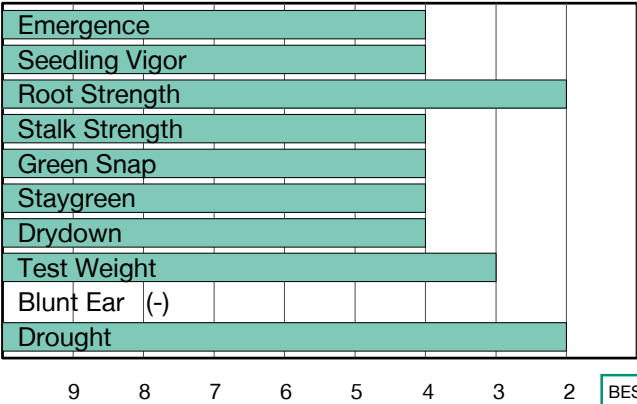


Brands Available: NK1523-3220 E-Z Refuge

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



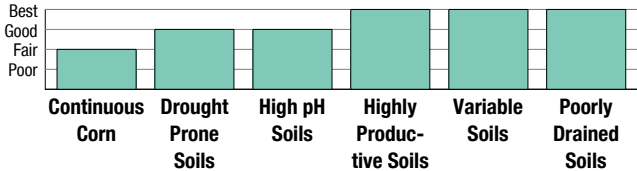
Disease Tolerance

Gray Leaf Spot	4
Northern Corn Leaf Blight	2
Goss's Wilt	4
Bacterial Leaf Streak	3
Southern Corn Leaf Blight	3
Eyespot	-
Anthracnose 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
280 bu/Ac	38,500
240 bu/Ac	35,000
200 bu/Ac	32,000
160 bu/Ac	29,000
120 bu/Ac	26,000

For more information or to view product performance data: www.nkcorn.com www.nkfieldforged.com (800) 258-0521



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



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Published May 03, 2021. For use until April 30, 2022.

CORN

NK1661



NEW

RM: 116

Silk	Black Layer
RM: 114	RM: 118
GDU: 1440	GDU: 2700



Brands Available: NK1661-5222A E-Z RefugeNEW
NK1661-3120A E-Z RefugeNEW

EXCELLENT YIELD POTENTIAL ACROSS THE ENTIRE CORN BELT WITH AGRISURE ARTESIAN TECHNOLOGY

- Strong disease package and plant health provide crop rotation flexibility
- Dependable stalks and roots allow for population flexibility across all environments
- Performs best on the medium- to fine-soil texture types

Agronomic Characteristics



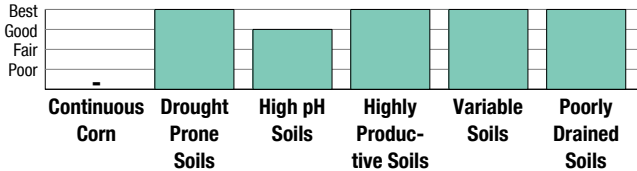
Disease Tolerance

Gray Leaf Spot	3
Northern Corn Leaf Blight	3
Goss's Wilt	3
Bacterial Leaf Streak	4
Southern Corn Leaf Blight	3
Eyespot	-
Anthracnose Stalk Rot	4
Tar Spot	4
Fusarium Crown Rot	3
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	Long	Semi-Upright	Modified

Performance In...



Seeding Rates

Yield Environment	Target Seeds/Ac
280 bu/Ac	36,500
240 bu/Ac	33,000
200 bu/Ac	29,500
160 bu/Ac	26,000
120 bu/Ac	22,000

For more information or to view product performance data: www.nkcorn.com www.nkfieldforged.com (800) 258-0521



syngenta.

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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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.

Published May 03, 2021. For use until April 30, 2022.



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

					ABOVE-GROUND					BELOW-GROUND				
	<div>• One effective mode of action</div> <div>• • Two effective modes of action</div> <div>Refer to the table on page 3 for information regarding efficacy against specific insect pests.</div>	% 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®	RNAi (No Trade Name)
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%	•			• •			•	•				

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

					ABOVE-GROUND					BELOW-GROUND				
	<ul style="list-style-type: none">• One effective mode of action• • Two effective modes of action <p>Refer to the table on page 3 for information regarding efficacy against specific insect pests.</p>	% 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®	RNAi (No Trade Name)
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® TRIsect®		•	•		•						•		
	Optimum® Intrasect® Xtra		•	•		•	•				•			
	Optimum® AcreMax® Xtra	10%	•	•		•	•				•			
	Optimum® Intrasect® TRIsect®		•	•		•	•					•		
	Optimum® AcreMax® TRIsect®	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 ^{1,2}	**			*						
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.										
¹ Pioneer claims suppression of corn earworm with Herculex I® technology. Syngenta claims suppression of corn earworm with Bt11.										
² 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



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2023 CORN SEED TREATMENT OFFERINGS

With our seed treatment offerings, we are 100% committed to improving your emergence, which increases stand establishment and ultimately provides you with the best ROI for your seed investment.

100% replant on
Prairie Valley
corn hybrids



Fungicides

Through the Acceleron platform, we provide the best protection against soil-borne and seed-borne diseases, including Fusarium, Rhizoctonia solani and Pythium.

Insecticides

A 500 rate of Poncho/VOTIVO controls over 15 corn insects and protects against damage from early season pests, such as wireworm, seedcorn maggot, white grub, grape colaspis and black cutworm.

BIOSTIMULANT



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 ratio 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 potential.



PV112-T69
Hustle, Realize,
ProLock, AgPro

Flag Test Start:
May 5th 7 pm
May 6th 35K
emerged 7 pm

All plants
emerged in
24 hours

2021
RFR
HUSTLE
DATA

Hybrid:	PV113-C51 Trecepta			PV113-C51 Trecepta			PV113-C51 Trecepta			PV111-L11 Trecepta			PV111-L11 Trecepta			PV113-C51 Trecepta			PV111-L11 Trecepta		
Location:	Atwood, KS			Byron, NE			Cuba, KS			Mitchell, SD			Traer, IA			Wilcox, NE			York, NE		
Treatment	Bu/Acre Average	Yield Rank		Bu/Acre Average	Yield Rank		Bu/Acre Average	Yield Rank		Bu/Acre Average	Yield Rank		Bu/Acre Average	Yield Rank		Bu/Acre Average	Yield Rank		Bu/Acre Average	Yield Rank	
UTC	223.59	2		249.79	2		159.64	2		111.14	2		200.52	2		265.15	2		262.88	2	
Hustle (2.4 oz/cwt) ST	237.40	1		267.74	1		170.21	1		120.45	1		207.13	1		280.88	1		273.29	1	
Bushel Advantage	+13.81			+17.95			+10.57			+9.31			+6.61			+15.73			+10.41		
				Overall Yield			Significant Wins														
Treatment				Average Yield	Yield Diff.		# Wins	Win %													
UTC				210.39																	
Hustle (2.4 oz/cwt) ST				222.44	12.05		7	100%													
				+12.05																	
				NET ROI* =			\$55.25														

*NET ROI based off of \$5 corn

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**

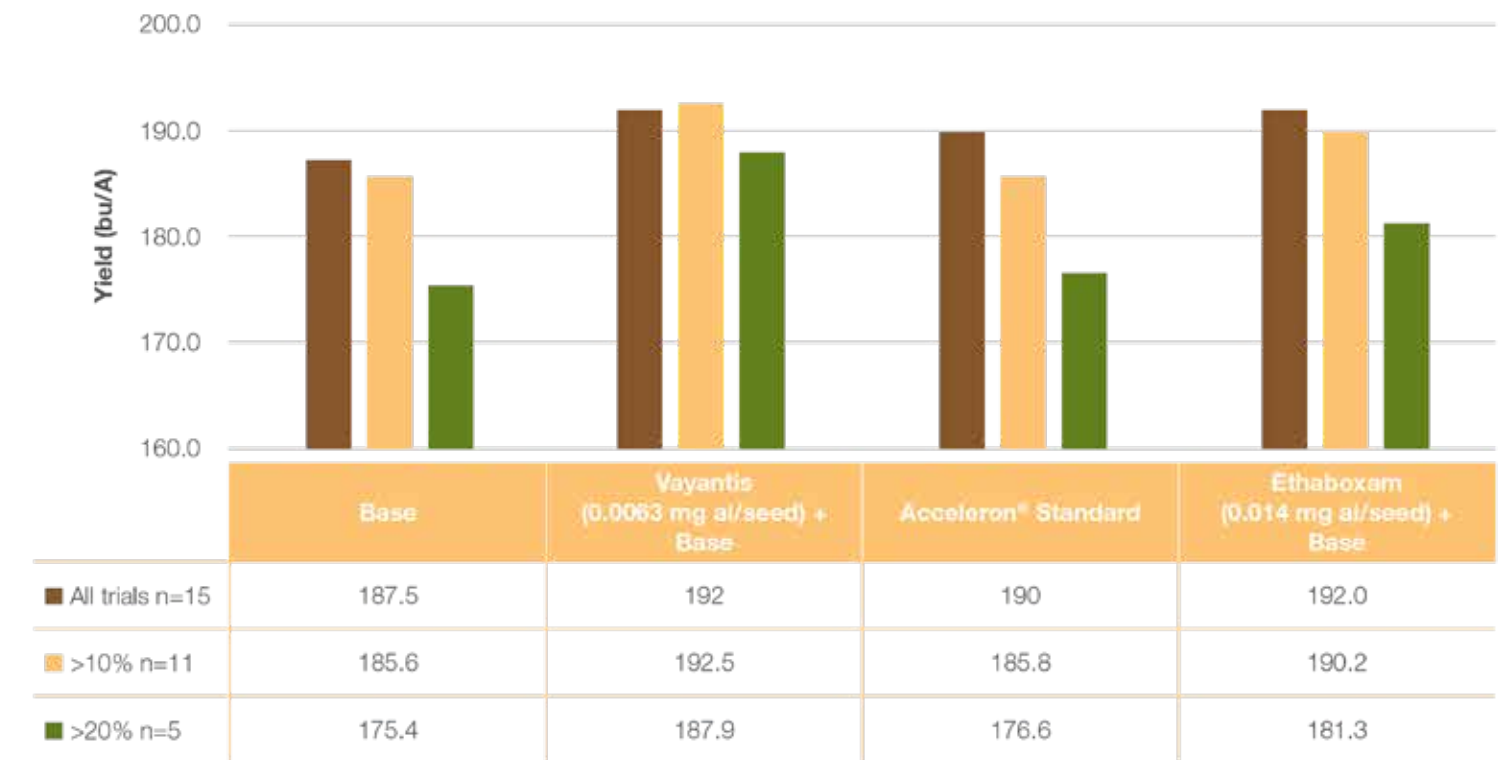


syngenta®

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.



¹ 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.

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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®



Enlist E3®



VARIETY HIGHLIGHTS

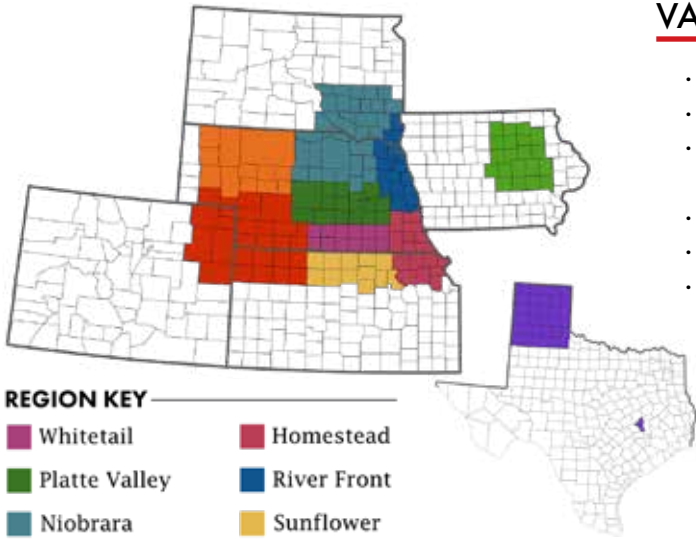
- Top yield performance across northern PV footprint
- Medium-tall plant with above average standability
- IDC tolerance is above average and also has an average white mold tolerance
- Very good on high pH soils
- Very good PRR field tolerance
- Moves south of zone well

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	Light
Hilum Color	Black
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	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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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® 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.

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

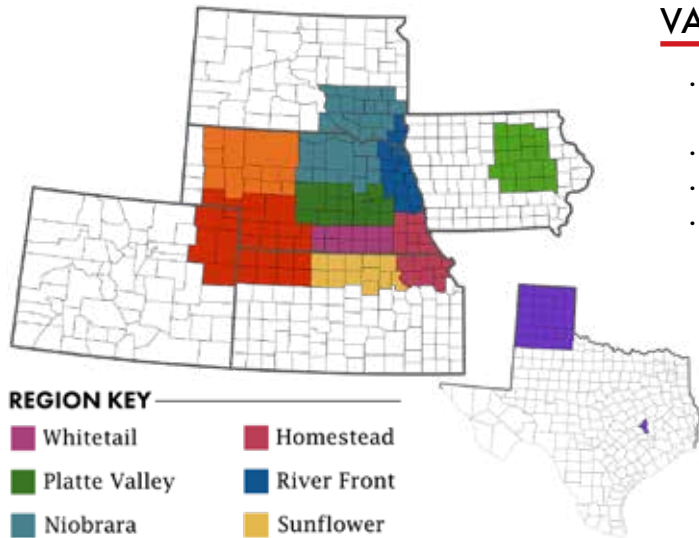
- Solid agronomic package including SDS and IDC tolerance with top end yield
- Will respond to high yield environments
- Adapted to no-till
- Good on high pH soils

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

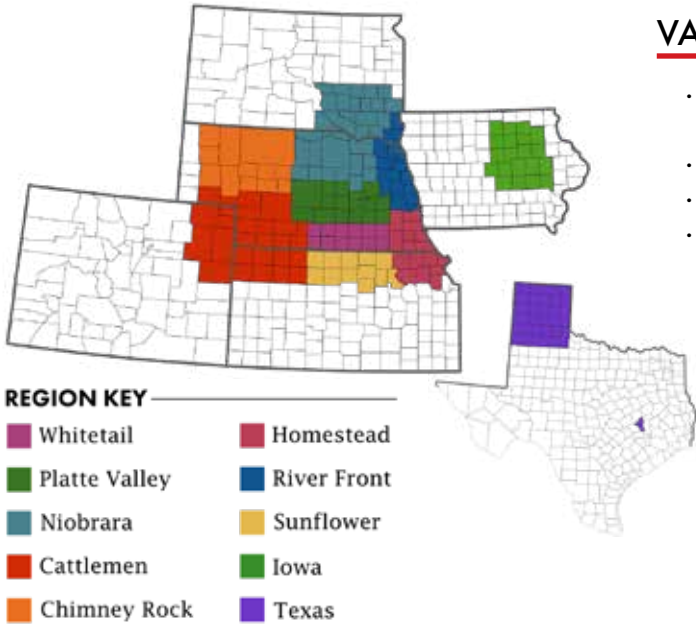
Rating Scale
5 = Excellent 3 = Good 2 = Fair
4 = Very Good 2.5 = Average 1 = Poor

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PLACEMENT RECOMMENDATION

Seed Region [Color-coded squares]

DISEASE & PEST RESISTANCE

Brown Stem Rot	R
PRR Resistance	S
PRR Field Tolerance	[5 icons]
Soybean Cyst Nematode	R
Southern Stem Canker	N/A
Sudden Death Syndrome	[5 icons]
White Mold	[5 icons]

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VARIETY HIGHLIGHTS

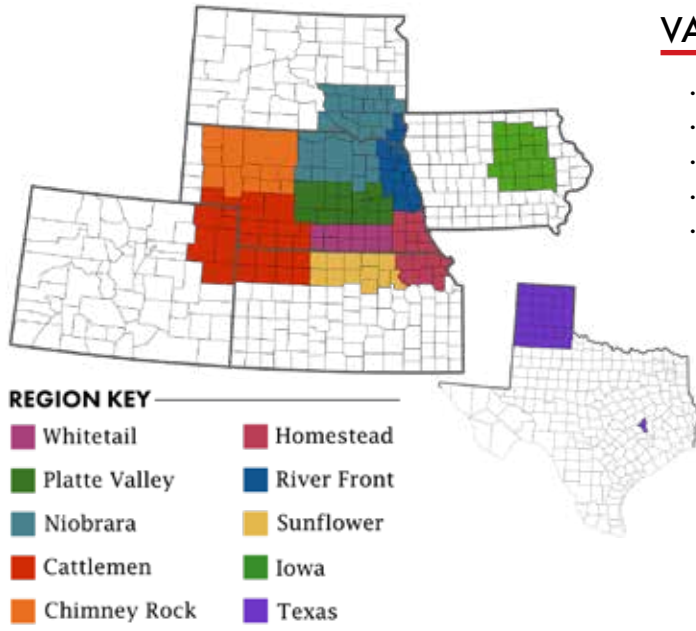
- Medium tall to tall soybean that has above average standability
- IDC and SDS tolerances are very good
- Very good to excellent on high pH soils
- White mold tolerance is average

VARIETY AGRONOMICS

Maturity	2.4
Emergence	[5 icons]
Plant Height	Medium Tall
Plant Type	Medium Bush 2.0
Growth Habit	Indeterminate
Standability	[5 icons]
Iron Deficiency Chlorosis	[5 icons]
No-till Adaptability	[5 icons]
Narrow Row	[5 icons]
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



PLACEMENT RECOMMENDATION

Seed Region [Color-coded squares]

DISEASE & PEST RESISTANCE

Brown Stem Rot	MR-MS
PRR Resistance	Rps1c
PRR Field Tolerance	[5 icons]
Soybean Cyst Nematode	R
Southern Stem Canker	R
Sudden Death Syndrome	[5 icons]
White Mold	[5 icons]

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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	[5 icons]
Plant Height	Medium Tall
Plant Type	Medium Bush 2.0
Growth Habit	Indeterminate
Standability	[5 icons]
Iron Deficiency Chlorosis	[5 icons]
No-till Adaptability	[5 icons]
Narrow Row	[5 icons]
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

HERBICIDE SENSITIVITY

Metribuzin Sensitivity	N/A
PPO Sensitivity	Sensitive



VARIETY HIGHLIGHTS

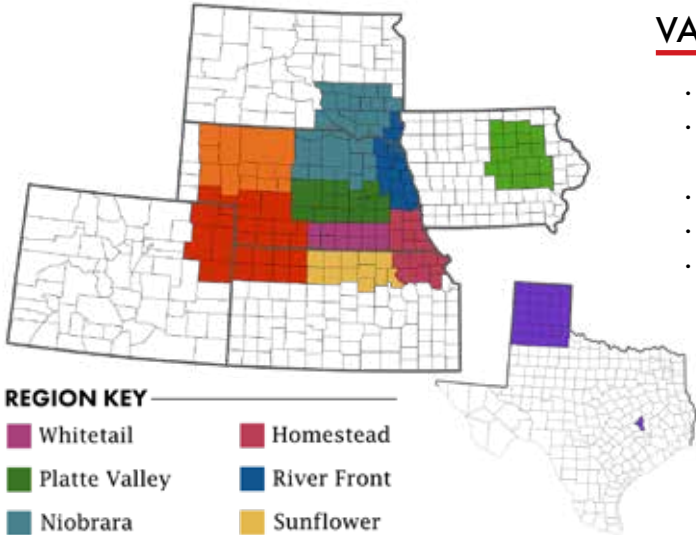
- Medium-tall variety with above average standability
- Rps1c variety with very good PRR field tolerance and white mold tolerance
- Chloride excluder
- Manage on historically high SDS fields
- Good on high pH soils

VARIETY AGRONOMICS

Maturity	2.7
Emergence	<div><div></div><div></div><div></div><div></div><div></div></div>
Plant Height	Medium Tall
Plant Type	Medium Bush 2.0
Growth Habit	Indeterminate
Standability	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Iron Deficiency Chlorosis	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
No-till Adaptability	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Narrow Row	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
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	<div><div></div><div></div><div></div><div></div><div></div></div>
Soybean Cyst Nematode	R
Southern Stem Canker	N/A
Sudden Death Syndrome	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
White Mold	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>

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VARIETY HIGHLIGHTS

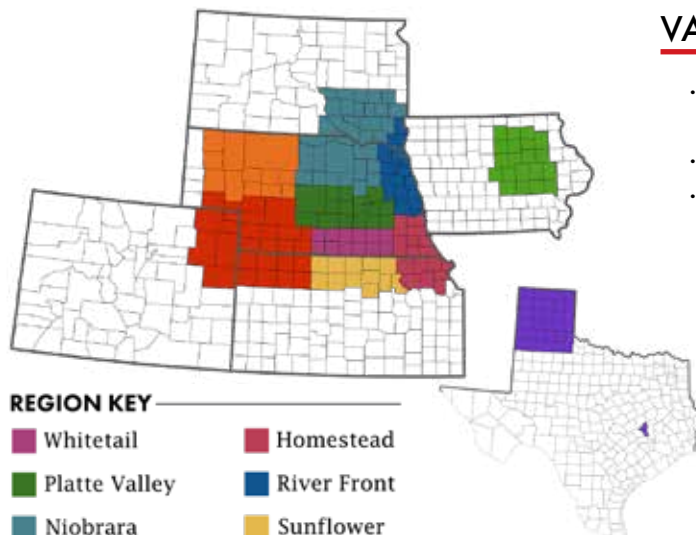
- Attractive, medium-tall variety with very good standability
- Very good PRR field tolerance
- Manage placement on high pH or historically high SDS pressure fields

VARIETY AGRONOMICS

Maturity	2.9
Emergence	<div><div></div><div></div><div></div><div></div><div></div></div>
Plant Height	Medium Tall
Plant Type	Medium Bush 2.0
Growth Habit	Indeterminate
Standability	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Iron Deficiency Chlorosis	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
No-till Adaptability	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Narrow Row	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
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	N/A
PRR Resistance	Rps1c
PRR Field Tolerance	<div><div></div><div></div><div></div><div></div><div></div></div>
Soybean Cyst Nematode	R
Southern Stem Canker	N/A
Sudden Death Syndrome	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
White Mold	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>

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VARIETY HIGHLIGHTS

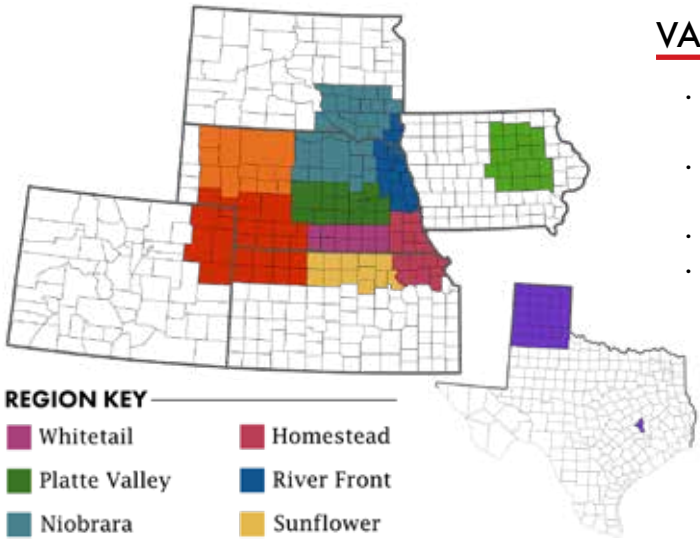
- Very good emergence and good standability with this tall plant
- Good white mold resistance and very good tolerance to SDS
- Responds well in all yield environments
- Good on high pH fields

VARIETY AGRONOMICS

Maturity	3.0
Emergence	<div><div></div><div></div><div></div><div></div><div></div></div>
Plant Height	Tall
Plant Type	Medium Bush 2.0
Growth Habit	Indeterminate
Standability	<div><div></div><div></div><div></div><div></div><div></div></div>
Iron Deficiency Chlorosis	<div><div></div><div></div><div></div><div></div><div></div></div>
No-till Adaptability	<div><div></div><div></div><div></div><div></div><div></div></div>
Narrow Row	<div><div></div><div></div><div></div><div></div><div></div></div>
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
 - Platte Valley
 - Niobrara
 - Cattlemen
 - Chimney Rock
 - Homestead
 - River Front
 - Sunflower
 - Iowa
 - Texas

PLACEMENT RECOMMENDATION

Seed Region

DISEASE & PEST RESISTANCE

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

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VARIETY HIGHLIGHTS

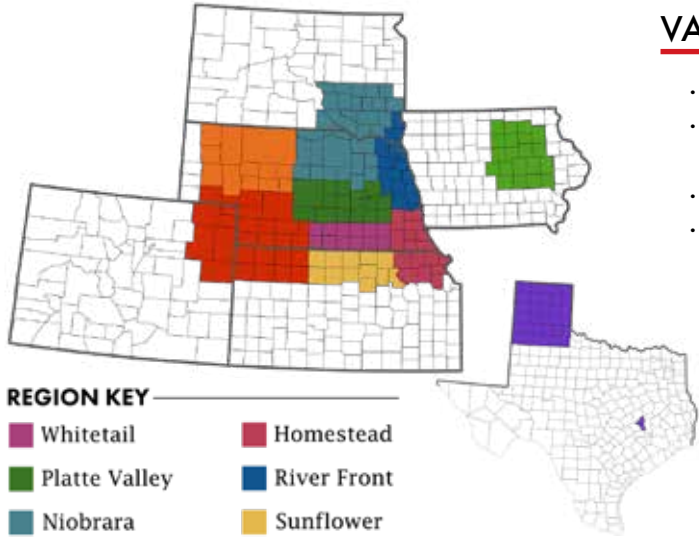
- Super strong appearance and high yield potential
- Excellent emergence and standability with a medium structured plant
- Use a seed treatment for best early performance
- Good on high pH soils

VARIETY AGRONOMICS

Maturity	3.2
Emergence	<div><div></div><div></div><div></div><div></div><div></div></div>
Plant Height	Medium
Plant Type	Medium Bush 2.0
Growth Habit	Indeterminate
Standability	<div><div></div><div></div><div></div><div></div><div></div></div>
Iron Deficiency Chlorosis	<div><div></div><div></div><div></div><div></div><div></div></div>
No-till Adaptability	<div><div></div><div></div><div></div><div></div><div></div></div>
Narrow Row	<div><div></div><div></div><div></div><div></div><div></div></div>
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

HERBICIDE SENSITIVITY

Metribuzin Sensitivity	Acceptable
PPO Sensitivity	Sensitive



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

PLACEMENT RECOMMENDATION

Seed Region

DISEASE & PEST RESISTANCE

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

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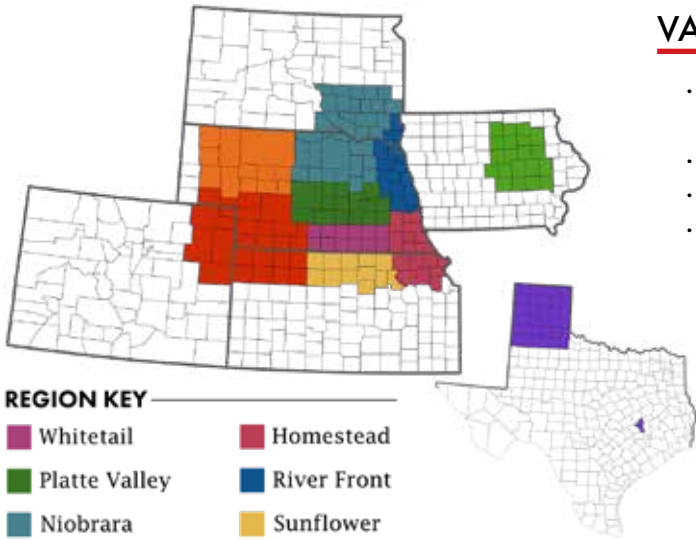
- Excellent emergence and very good standability with a medium tall plant height
- Very strong agronomic package
- Works in narrow and wide rows
- Excellent choice on high pH fields

VARIETY AGRONOMICS

Maturity	3.4
Emergence	<div><div></div><div></div><div></div><div></div><div></div></div>
Plant Height	Medium Tall
Plant Type	Medium Bush 2.0
Growth Habit	Indeterminate
Standability	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Iron Deficiency Chlorosis	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
No-till Adaptability	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Narrow Row	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
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



PLACEMENT RECOMMENDATION

Seed Region: Whitetail, Platte Valley, Niobrara, Cattlemen, Chimney Rock, Homestead, River Front, Sunflower, Iowa, Texas

DISEASE & PEST RESISTANCE

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

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VARIETY HIGHLIGHTS

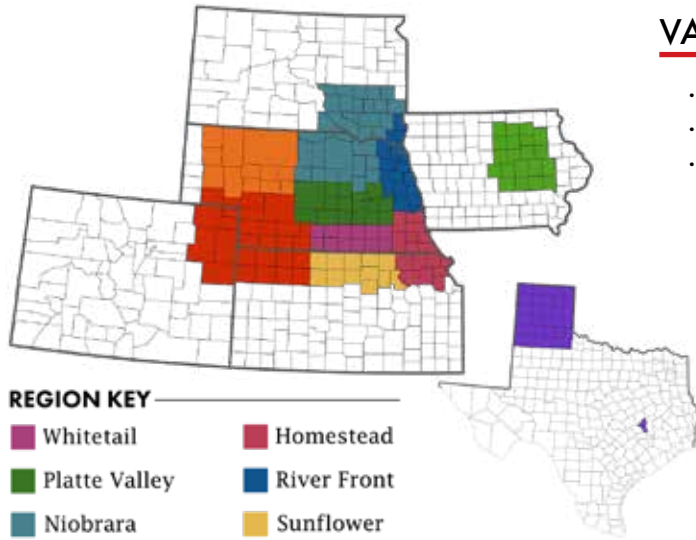
- Strong performance overall with outstanding yield
- Tall plant type with very good standability
- Good on high pH soils

VARIETY AGRONOMICS

Maturity	3.7
Emergence	<div><div></div><div></div><div></div><div></div><div></div></div>
Plant Height	Tall
Plant Type	Medium Bush 2.0
Growth Habit	Indeterminate
Standability	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Iron Deficiency Chlorosis	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
No-till Adaptability	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Narrow Row	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
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

HERBICIDE SENSITIVITY

Metribuzin Sensitivity	Acceptable
PPO Sensitivity	Sensitive



PLACEMENT RECOMMENDATION

Seed Region: Whitetail, Platte Valley, Niobrara, Cattlemen, Chimney Rock, Homestead, River Front, Sunflower, Iowa, Texas

DISEASE & PEST RESISTANCE

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

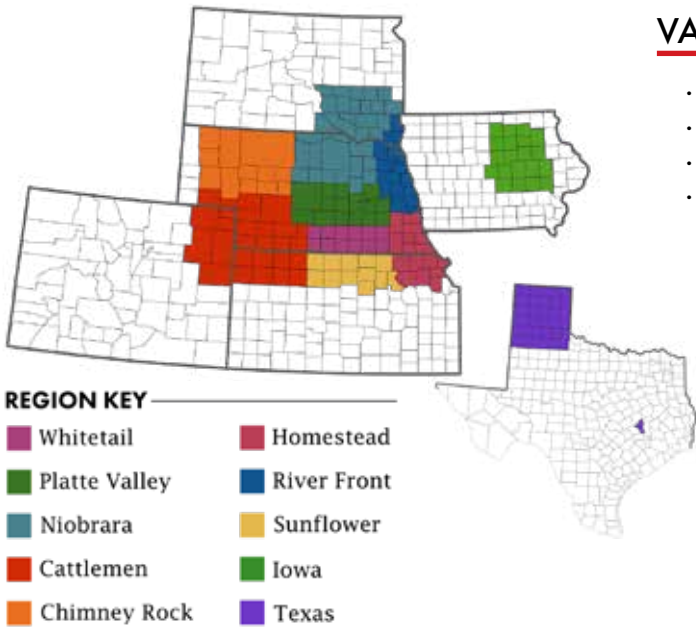
Rating Scale
5 = Excellent
4 = Very Good
3 = Good
2.5 = Average
2 = Fair
1 = Poor

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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	

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

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VARIETY HIGHLIGHTS

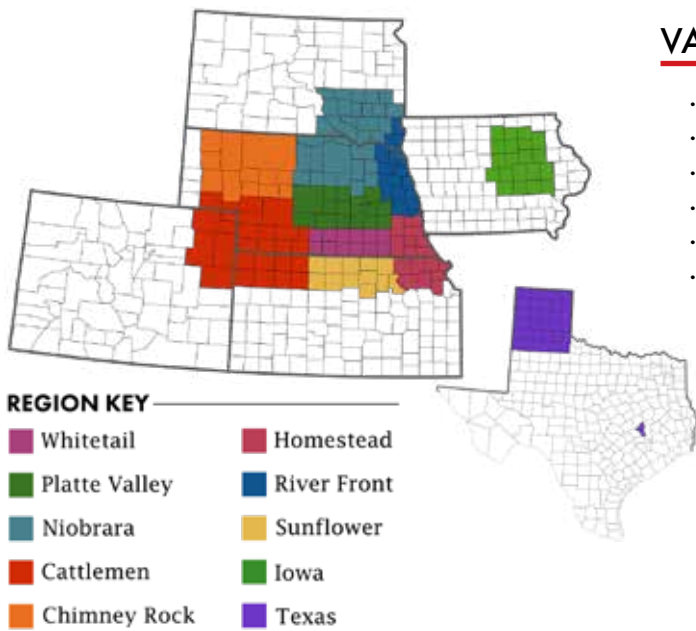
- Excellent disease package and solid agronomically
- SR tolerant
- Dryland and irrigated option in Kansas
- Manage placement on high pH or historically high SDS pressure fields

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	R
PRR Resistance	Rps1c+3a
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

- Medium-tall, semi-bush plant
- Adapted to narrow rows and wide rows
- Moves south out of maturity zone
- Dryland and irrigated option
- Will respond in high yield environments
- Good on high pH soils

VARIETY AGRONOMICS

Maturity	2.0
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	N/A
Flower Color	Purple
Pubescence Color	Gray
Hilum Color	Buff
Pod Color	Brown
Oil Content @ 13%	N/A
Protein Content @ 13%	N/A

HERBICIDE SENSITIVITY

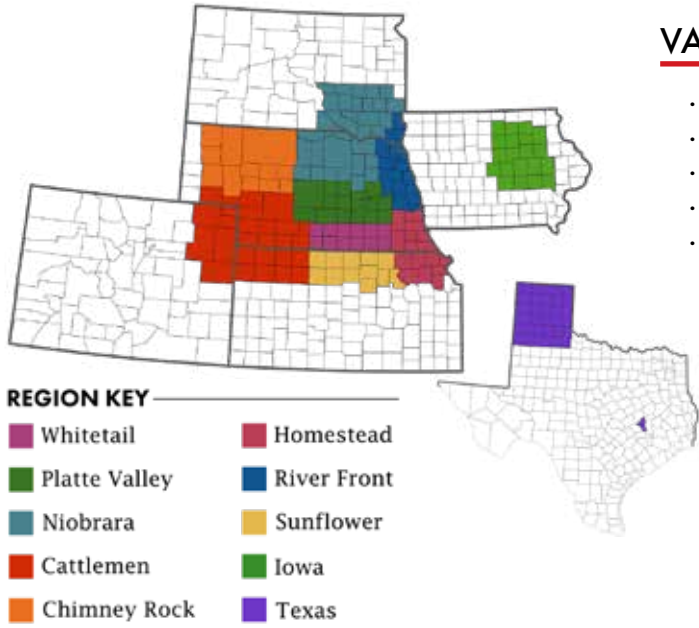
Metribuzin Sensitivity	Acceptable
PPO Sensitivity	Sensitive



2320E3



2419E3



PLACEMENT RECOMMENDATION

Seed Region

DISEASE & PEST RESISTANCE

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

VARIETY HIGHLIGHTS

- Moves south of maturity zone
- Very strong agronomics
- Responds to high yield environments
- Narrow or wide row option
- Above average on high pH soils

VARIETY AGRONOMICS

Maturity	2.3
Emergence	
Plant Height	Medium
Plant Type	Bush 2.5
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

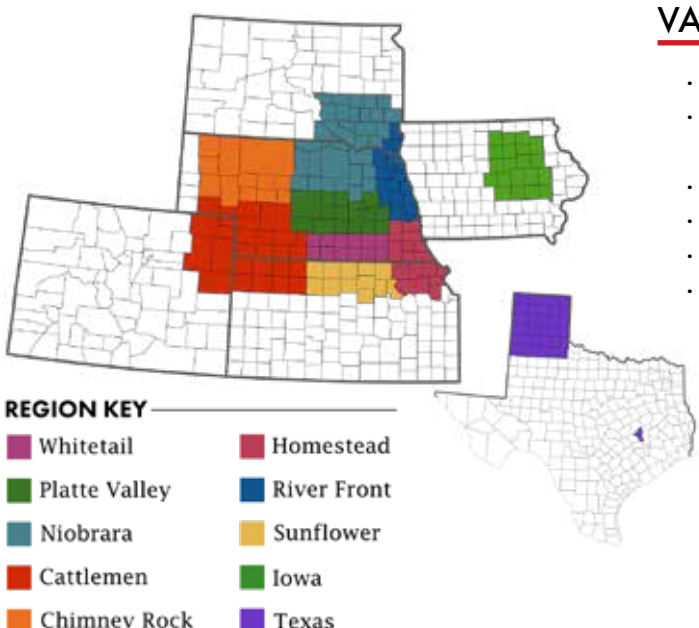
HERBICIDE SENSITIVITY

Metribuzin Sensitivity	Acceptable
PPO Sensitivity	Acceptable

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

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PLACEMENT RECOMMENDATION

Seed Region

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

- 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

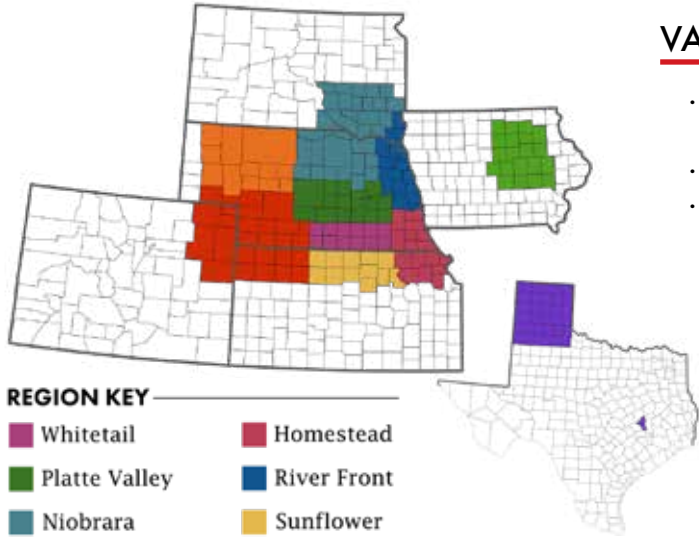


2623E3

NEW



2919E3



- REGION KEY**
- Whitetail
 - Platte Valley
 - Niobrara
 - Cattlemen
 - Chimney Rock
 - Homestead
 - River Front
 - Sunflower
 - Iowa
 - Texas

PLACEMENT RECOMMENDATION

Seed Region

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	

VARIETY HIGHLIGHTS

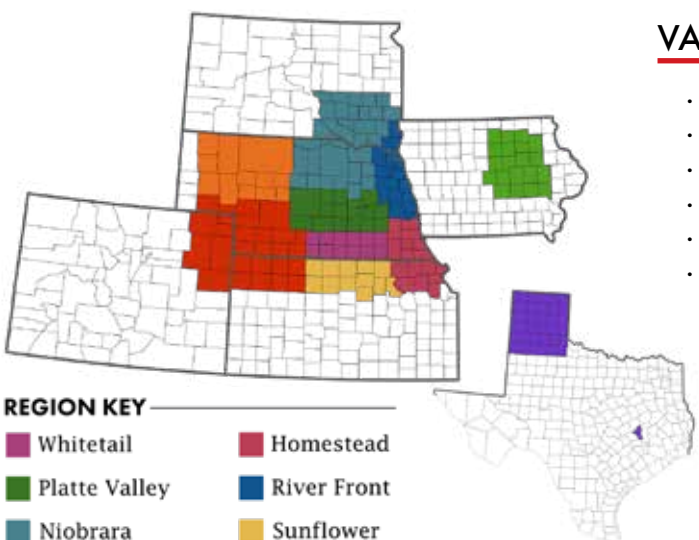
- Unique plant style that brings significant height and good standability
- Manage on high pH soils
- Above average white mold tolerance

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	
Flower Color	Includer
Pubescence Color	Purple
Hilum Color	Gray
Pod Color	Buff
Oil Content @ 13%	Brown
Protein Content @ 13%	N/A

HERBICIDE SENSITIVITY

Metribuzin Sensitivity	Sensitive
PPO Sensitivity	Acceptable



- REGION KEY**
- Whitetail
 - Platte Valley
 - Niobrara
 - Cattlemen
 - Chimney Rock
 - Homestead
 - River Front
 - Sunflower
 - Iowa
 - Texas

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	

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

Rating Scale
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Enlist E3[®] soybeans

Exceptional weed control. Ease of use. Excellent yield.

Enlist E3[®] 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[®] soybeans

Through R1 growth stage

Enlist E3[®] soybeans have no plant-back restrictions after using an Enlist[®] herbicide for burndown.

Adding the Enlist[®] weed control system to your operation is simple.

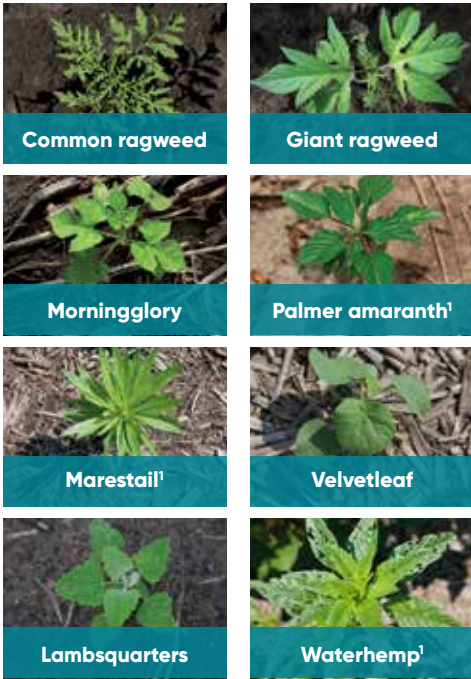
- Enlist E3 soybeans are compatible with nearby crops, such as **soybeans without the Enlist[®] trait, alfalfa, corn, peanuts, sorghum, rice and wheat**. You can apply Enlist herbicides on Enlist E3 soybeans planted right next to these compatible crops with no wind directional restrictions.
- A wide 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:



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

SOYBEAN HERBICIDE RECOMMENDATIONS NON-DICAMBA



JANUARY 2021

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 ingredients¹** at full labeled use rates from Group 2², 3, 5², 14 or 15³

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 APPLICATION⁴ within 4 weeks of planting and when weeds are less than 3-4 inches tall⁵ (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

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

²Please refer to product labels for specific soil pH restrictions.

³When considering Warrant[®] Ultra herbicide, substitute with Warrant[®] herbicide where Warrant[®] 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.

⁴Wide row planted soybean may require another POST application.

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



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



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.

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<div>  XtendFlex Variety </div>	Relative Maturity	Flower Color	Pubescence Color	Pod Color	Hilum Color	Plant Height	Plant Structure	Emergence	Standability
PV2123XF <i>NEW</i>	2.1	Purple	Light	Tan	Black	Medium-Tall	2.0	5	3
PV2220XF	2.2	Purple	Gray	Brown	Imperfect Black	Tall	2.0	5	4
PV2423XF <i>NEW</i>	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 <i>NEW</i>	2.7	Purple	Gray	Tan	Gray	Medium-Tall	2.0	5	4
PV2923XF <i>NEW</i>	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 <i>NEW</i>	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 <i>NEW</i>	3.7	Purple	Light	Brown	Black	Tall	2.0	5	4
PV3920XF	3.9	Purple	Gray	Tan	Imperfect Black	Tall	2.0	5	4
<div>  Enlist Variety </div>									
PV2019E3	2.0	Purple	Gray	Brown	Buff	Medium-Tall	2.0	5	4
PV2320E3	2.3	Purple	Gray	Tan	Buff	Medium	2.5	5	4
PV2419E3	2.4	Purple	Gray	Tan	Buff	Medium+	2.0	4	5
PV2623E3 <i>NEW</i>	2.6	Purple	Gray	Brown	Buff	Medium-Tall	2.0	4	3.5
PV2919E3	2.9	Purple	Gray	Tan	Imperfect Black	Medium+	2.0	5	4

Iron Deficiency Chlorosis (IDC)	No-Till Adaptability	Narrow Row	Chloride Sensitivity	Oil Content @ 13%	Protein Content @ 13%	Brown Stem Rot	PRR Resistance	PRR Field Tolerance	Soybean Cyst Nematode (SCN)	Stem Canker	Sudden Death Syndrome (SDS)	White Mold (SWM)
4	5	5	Inc	NA	NA	R	S	4	R	NA	3	2.5
3.5	4	5	Inc	22.8	38.3	S	Rps1c	3.5	R	NA	3.5	3
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
3	4	3	NA	NA	NA	R	Rps1c+3a	4	R	NA	4	3
3	4	4	NA	NA	NA	R	Rps1k	4	R	R	4	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
3.5	4	4	NA	NA	NA	S	RpsH1k	3.5	R	NA	3	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 SEED



SOYBEANS



S28-E3_{BRAND}

RM:
2.8



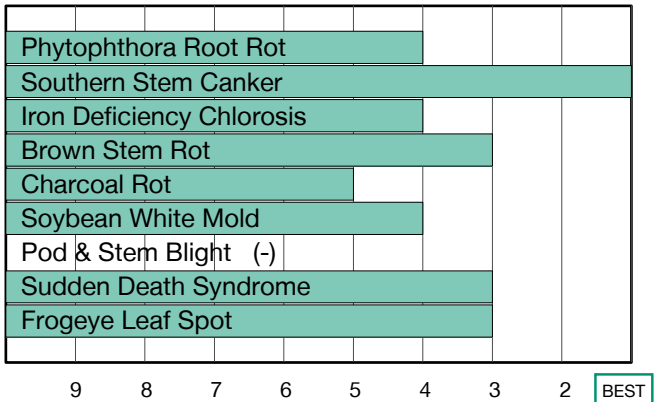
High Yield Potential, Go-almost-anywhere Genetics

- Broadly adapted with flexibility to move north or south
- Brings together Sudden Death Syndrome, Soybean Cyst Nematode and Soybean White Mold protection
- Easy-to-manage plant type supports all row spacings

Plant Characteristics

Plant Height	Medium
Canopy/Plant Type	Medium
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	3
Shatter Tolerance	3
Green Stem	2
Estimated Seed Size	Medium
% Protein at 13% mst.	33.4
% Oil at 13% mst.	19.7
Narrow Rows	1
Wide Rows	1
Metribuzin Response	Best
Sulfentrazone Response	Good

Adaptation to Soil Types

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

Diseases and Pests

Phytophthora Root Rot (PRR) Source	Rps1k
Soybean Cyst Nematode (SCN) Races	MR3
(SCN) Source	PI88788
Root Knot Nematode (RKN) Incognita	-

For more information or to view product performance data: nksoybeans.com 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

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SOYBEANS



NK29-Z4E3_{BRAND}



NEW

RM:
2.9



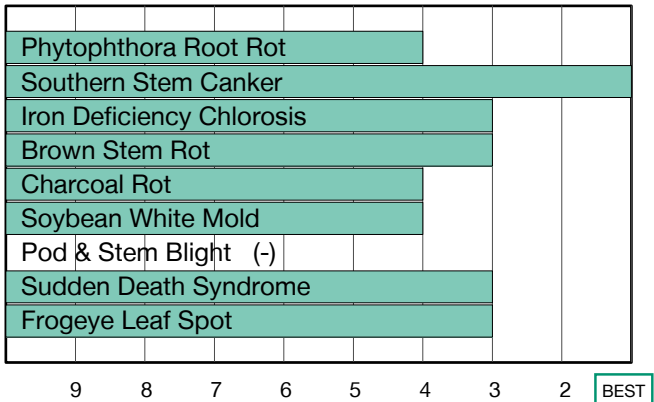
Great Yield Potential, Stability and Complete Disease Package

- 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.	34.5
% Oil at 13% mst.	18.4
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	-

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SOYBEANS



NK30-B2E3^{BRAND}

NEW

RM:
3.0



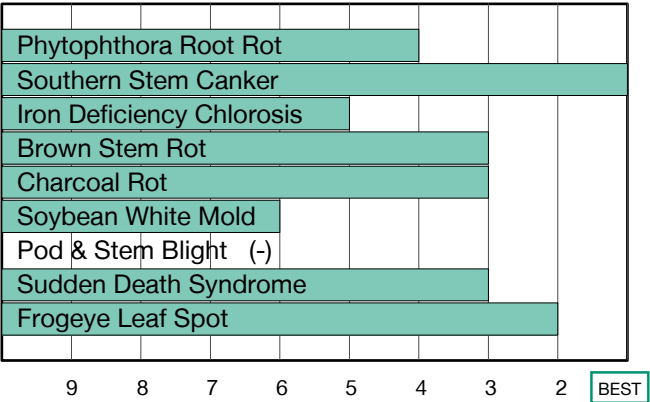
Awesome Yield Potential with Superb Standability

- Best performance in high-yield environments
- Ability to handle any soil type
- Soybean White Mold should be considered during placement

Plant Characteristics

Plant Height	Medium-Short
Canopy/Plant Type	Medium-Bush
Branching	Moderate
Growth Habit	Indeterminate
Flower Color	Purple
Pubescence Color	Gray
Pod Color	Tan
Hilum Color	Imperfect Black
Chloride Sensitivity	Excluder

Disease Ratings



Agronomic Traits

Emergence	2
Standability	2
Shatter Tolerance	2
Green Stem	2
Estimated Seed Size	Medium
% Protein at 13% mst.	33.4
% Oil at 13% mst.	19.3
Narrow Rows	1
Wide Rows	1
Metribuzin Response	-
Sulfentrazone Response	-

Adaptation to Soil Types

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

Diseases and Pests

Phytophthora Root Rot (PRR) Source	Rps3a
Soybean Cyst Nematode (SCN) Races	MR3, MR14
(SCN) Source	PI88788
Root Knot Nematode (RKN) Incognita	-

SOYBEANS



NK33-W2E3S^{BRAND}



NEW

RM:
3.3



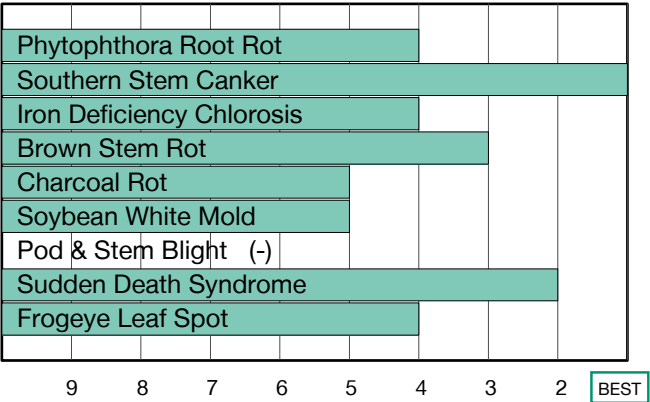
Stable Yield Potential Across Environments

- Good choice for fine-textured and poorly drained soils
- Outstanding tolerance to Sudden Death Syndrome allows for early planting
- STS tolerance for added placement options

Plant Characteristics

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

Disease Ratings



Agronomic Traits

Emergence	2
Standability	3
Shatter Tolerance	2
Green Stem	1
Estimated Seed Size	Small
% Protein at 13% mst.	33.1
% Oil at 13% mst.	18.8
Narrow Rows	1
Wide Rows	1
Metribuzin Response	-
Sulfentrazone Response	-

Adaptation to Soil Types

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

Diseases and Pests

Phytophthora Root Rot (PRR) Source	Rps1c
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](#) [nkfieldforged.com](#) [@NKSeeds](#) (800) 258-0521

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SOYBEANS



NK25-C9XF_{BRAND}



RM:
2.5

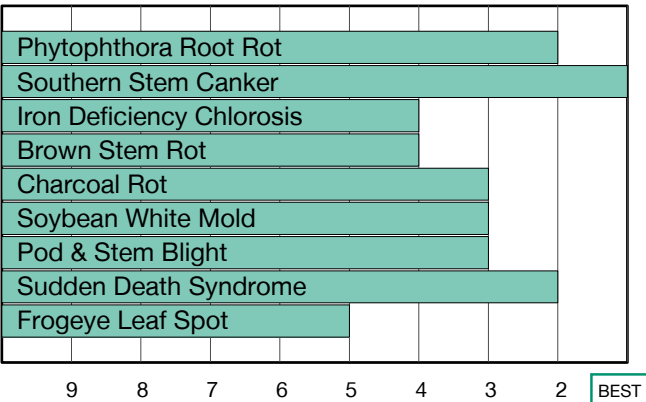
Excellent Performance with Great Sudden Death Syndrome Protection

- Very versatile, performing well north and south of zone
- Superb Sudden Death Syndrome tolerance paired with strong Cyst Nematode resistance
- Sound option for Soybean Cyst Nematode/Iron Deficiency Chlorosis acres

Plant Characteristics

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

Disease Ratings



Agronomic Traits

Emergence	2
Standability	3
Shatter Tolerance	2
Green Stem	3
Estimated Seed Size	Large
% Protein at 13% mst.	32.4
% Oil at 13% mst.	20.4
Narrow Rows	2
Wide Rows	1
Metribuzin Response	Best
Sulfentrazone Response	Fair

Adaptation to Soil Types

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

Diseases and Pests

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

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SOYBEANS



NK27-A7XF_{BRAND}



RM:
2.7

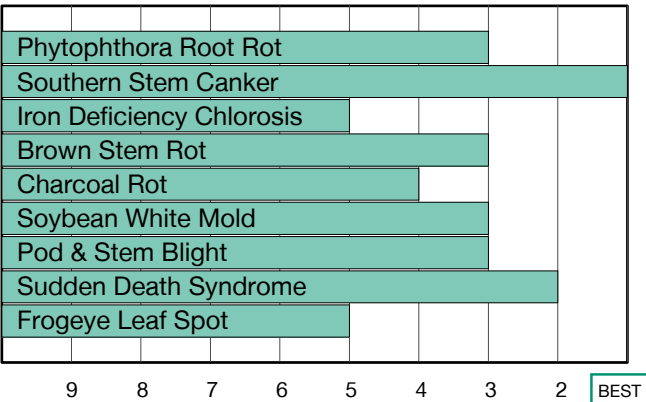
Exciting Genetics with Top-end Yield Potential

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

Disease Ratings



Agronomic Traits

Emergence	2
Standability	3
Shatter Tolerance	2
Green Stem	3
Estimated Seed Size	Medium
% Protein at 13% mst.	34.1
% Oil at 13% mst.	19.3
Narrow Rows	2
Wide Rows	1
Metribuzin Response	Good
Sulfentrazone Response	Good

Adaptation to Soil Types

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

Diseases and Pests

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

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SOYBEANS



NK28-T3XF_{BRAND}

RM:
2.8

Very Good Top-end Yield Potential

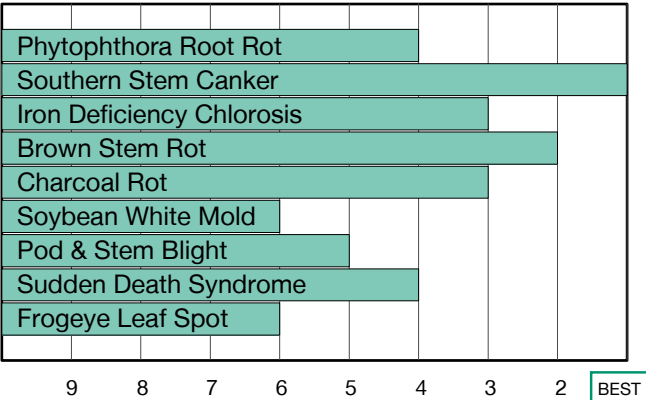


- Excels on medium-texture soils and productive acres
- Medium-bush plant type that allows for placement on variable soils
- Solid standability for highly managed acres

Plant Characteristics

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

Disease Ratings



Agronomic Traits

Emergence	2
Standability	3
Shatter Tolerance	3
Green Stem	2
Estimated Seed Size	Medium
% Protein at 13% mst.	32.1
% Oil at 13% mst.	19.5
Narrow Rows	2
Wide Rows	1
Metribuzin Response	Best
Sulfentrazone Response	Fair

Adaptation to Soil Types

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

Diseases and Pests

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

SOYBEANS



NK30-U4XF_{BRAND}



NEW

RM:
3.0

Spectacular Bulk Tank Bean

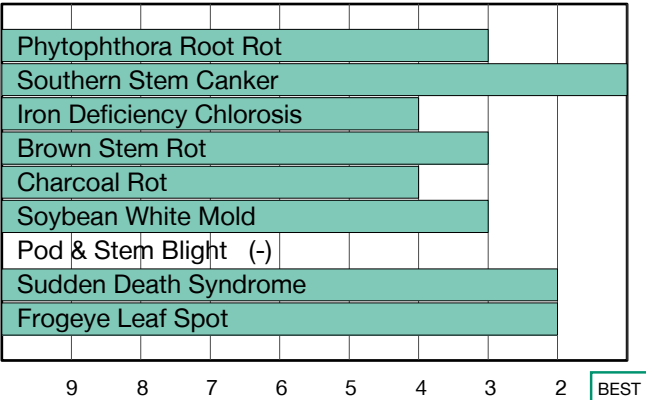


- Provides strong standability with excellent top-end yield potential
- Excels in highly productive environments
- Steadfast agronomics and solid disease traits enable easy placement

Plant Characteristics

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

Disease Ratings



Agronomic Traits

Emergence	2
Standability	3
Shatter Tolerance	2
Green Stem	2
Estimated Seed Size	Medium
% Protein at 13% mst.	34.3
% Oil at 13% mst.	18.5
Narrow Rows	1
Wide Rows	1
Metribuzin Response	-
Sulfentrazone Response	-

Adaptation to Soil Types

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

Diseases and Pests

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

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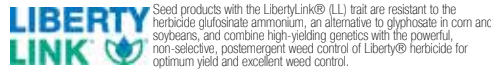
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Adaptation and Responses: Best > Good > Fair > Poor.




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

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

©2022 Syngenta. Important: Always read and follow label and bag tag instructions; only those labeled as tolerant to glufosinate may be sprayed with glufosinate ammonium-based herbicides. NK® soybean varieties are protected under granted or pending U.S. variety patents and other intellectual property rights, regardless of the trait(s) within the seed. The LibertyLink® and XtendFlex® traits may be protected under numerous United States patents. It is unlawful to save soybeans containing these traits for planting or transfer to others for use as a planting seed. Under federal and local laws, only dicamba-containing herbicides registered for use on dicamba-tolerant varieties may be applied. See product labels for details and tank mix partners. Only dicamba formulations that employ VaporGrip® Technology are approved for use with XtendFlex® soybeans. The trademarks or service marks displayed or otherwise used herein are the property of a Syngenta Group Company. LibertyLink®, Liberty® and the Water Droplet logo are registered trademarks of BASF. VaporGrip® and XtendFlex® are registered trademarks used under license from the Bayer Group. All other trademarks are the property of their respective owners.



2023 SOYBEAN SEED TREATMENT OFFERINGS







UPSURGE STS IS AURORA'S EXCLUSIVE SEED TREATMENT

Basic Offering

UpSurgeSTS



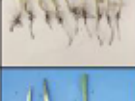
Four unique modes of action for early season protection of insects and diseases

What is It?	What Does It Do?	Results
Mefenoxam (Fungicide #1)	Controls Phytophthora & Pythium	
Fludioxonil (Fungicide #2)	Controls Fusarium	
Sedaxane (Fungicide #3)	Controls Rhizoctonia	
Thiamethoxam (Insecticide)	Controls Bean Leaf Beetles	

Advanced Offering

UpSurgeSTS

Hustle's unique design provides essential nutrients and biostimulant additives to maximize uniform emergence and early crop development

What is It?	What Does It Do?	Results
Macro-Micro Nutrients Plus Extracts	Stimulates Seed Germination & Early Crop Development	
Biostimulant Package	Uniform Emergence & Increased Nutrient Uptake	
	Stress Reduction In Cold Soils	

2021 RFR UPSURGE STS & HUSTLE DATA

Variety:	PV2620XF		PV2620XF		PV3620XF		PV2220XF		PV2620XF		PV2620XF		PV2620XF		PV2920XF	
Location:	Atwood, KS		Byron, NE		Cuba, KS		Neligh, NE		Traer, IA		Wilcox, NE		Wray, CO		York, NE	
Treatment	Bu/Acre Average	Yield Rank	Bu/Acre Average	Yield Rank	Bu/Acre Average	Yield Rank	Bu/Acre Average	Yield Rank	Bu/Acre Average	Yield Rank	Bu/Acre Average	Yield Rank	Bu/Acre Average	Yield Rank	Bu/Acre Average	Yield Rank
UTC	59.52	2	68.03	2	33.33	2	60.15	2	76.92	2	58.93	2	26.35	2	77.18	2
Hustle (1.2 oz/cwt), Upsurge STS (3 oz/cwt)	64.34	1	73.69	1	37.11	1	65.34	1	81.98	1	66.51	1	30.64	1	89.06	1
Bushel Advantage	+4.82		+5.66		+3.78		+5.19		+5.06		+7.58		+4.29		+11.88	

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

CruiserMaxx® Vibrance® 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%¹. *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® 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® APX Untreated Acceleron® 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.

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2022 PROJECTED PRODUCT SOYBEAN ROI GUIDE

NET Return based off of \$14 soybeans.

AURORA BEAN STARTER ROI - SOYBEANS				
BUSHEL GAIN	INVESTMENT	RETURN	NET RETURN	ROI
2.5	\$12.00	\$35.00	\$23.00	192%
5	\$12.00	\$70.00	\$58.00	483%
7.5	\$12.00	\$105.00	\$93.00	775%
10	\$12.00	\$140.00	\$128.00	1,067%

ACCRUE ROI - SOYBEANS				
BUSHEL GAIN	INVESTMENT	RETURN	NET RETURN	ROI
2.5	\$6.00	\$35.00	\$29.00	483%
5	\$6.00	\$70.00	\$64.00	1,067%
7.5	\$6.00	\$105.00	\$99.00	1,650%
10	\$6.00	\$140.00	\$134.00	2,233%

HEIGHTEN ROI - SOYBEANS				
BUSHEL GAIN	INVESTMENT	RETURN	NET RETURN	ROI
2.5	\$6.25	\$35.00	\$28.75	460%
5	\$6.25	\$70.00	\$63.75	1,020%
7.5	\$6.25	\$105.00	\$98.75	1,580%
10	\$6.25	\$140.00	\$133.75	2,140%

UPSURGE STS & HUSTLE ROI - SOYBEANS				
BUSHEL GAIN	INVESTMENT	RETURN	NET RETURN	ROI
2.5	\$20.00	\$35.00	\$15.00	75%
5	\$20.00	\$70.00	\$50.00	250%
7.5	\$20.00	\$105.00	\$85.00	425%
10	\$20.00	\$140.00	\$120.00	600%

HUSTLE ROI - SOYBEANS				
BUSHEL GAIN	INVESTMENT	RETURN	NET RETURN	ROI
2.5	\$7.00	\$35.00	\$28.00	400%
5	\$7.00	\$70.00	\$63.00	900%
7.5	\$7.00	\$105.00	\$98.00	1,400%
10	\$7.00	\$140.00	\$133.00	1,900%

REALIZE ROI - SOYBEANS				
BUSHEL GAIN	INVESTMENT	RETURN	NET RETURN	ROI
2.5	\$9.06	\$35.00	\$25.94	286%
5	\$9.06	\$70.00	\$60.94	673%
7.5	\$9.06	\$105.00	\$95.94	1,059%
10	\$9.06	\$140.00	\$130.94	1,445%

CONSTRAIN XLT PLUS ROI - SOYBEANS				
BUSHEL GAIN	INVESTMENT	RETURN	NET RETURN	ROI
2.5	\$8.00	\$35.00	\$27.00	338%
5	\$8.00	\$70.00	\$62.00	775%
7.5	\$8.00	\$105.00	\$97.00	1,213%
10	\$8.00	\$140.00	\$132.00	1,650%

RANSOM ROI - SOYBEANS				
BUSHEL GAIN	INVESTMENT	RETURN	NET RETURN	ROI
2.5	\$8.15	\$35.00	\$26.85	329%
5	\$8.15	\$70.00	\$61.85	759%
7.5	\$8.15	\$105.00	\$96.85	1,188%
10	\$8.15	\$140.00	\$131.85	1,618%



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

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 or scan the QR code



Bayer is a member of the Seed Innovation and Protection Alliance. Visit www.seedipalliance.com to learn more. SIPA™ 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 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.

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.

Bayer, Bayer Cross, Roundup Ready 2 Xtend®, Roundup Ready 2 Yield®, Roundup Ready® and XtendFlex® are registered trademarks of Bayer Group. LibertyLink® and the Water Droplet Design® is a trademark of BASF Corporation. ©2022 Bayer Group. All rights reserved.

Rev 01/2022

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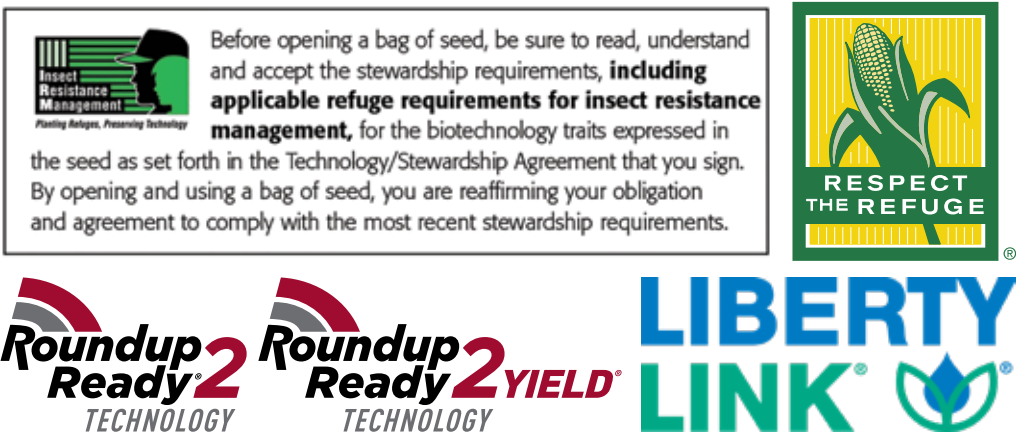
ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. It is a violation of federal and state law to use any pesticide product other than in accordance with its labeling. NOT ALL formulations of dicamba or glyphosate are approved for in-crop use with Roundup Ready 2 Xtend® soybeans. NOT ALL formulations 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.



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. U.S. patents for Bayer technologies can be found at the following webpage: 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.

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. 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

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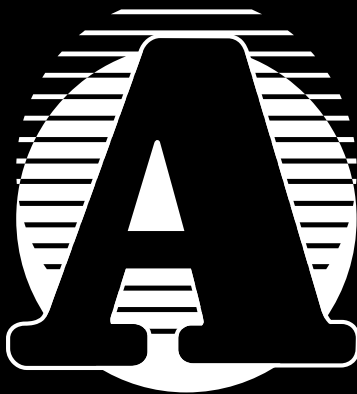
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www.auroracoop.com