



**Xitavo**<sup>™</sup>  
Soybean Seed

**2024 Catalog**

Distributed by BASF



Dear Soybean Grower,

Thank you for considering Xitavo™ soybean seed as part of your 2024 season.

BASF is proud to partner with MS Technologies to offer this foundational soybean seed, made with best-in-class innovation for proven performance.

We're excited to let you know that this top-performing seed has expanded its portfolio with the addition of 11 high-yielding varieties, for a total of 44 different varieties covering relative maturities from 0.0 to 4.8. All new varieties feature the Enlist E3® triple-stack, herbicide-tolerant trait providing tolerance to Liberty® herbicide, glyphosate, and the new 2,4-D choline salt – allowing multiple modes of action to help fight herbicide resistance while tackling the most difficult weeds.

Our BASF team of soybean specialists is focused on your success. BASF agronomists meticulously test and evaluate each Xitavo soybean seed variety, employing rigorous quality standards – and it shows. Xitavo soybean seed is getting the attention of soybean farmers across the Midwest because of its consistent, high-yielding varietal performance. In 2022, Xitavo soybean varieties had 14 first-place finishes and 155 top 10 finishes in the Farmers' Independent Research of Seed Technologies (FIRST) yield tests. What's more, Xitavo soybean varieties showed outstanding performance in the WinField® United Answer Plot® in 2022 with seven National Performers, 20 top 10 national finishes and 26 top 5 regional finishes.

We take pride in doing our part to help you grow the most successful soybean crop possible. As your partner from seed to bin, we truly appreciate your business. Together, let's have a great 2024 season.

Sincerely,

A handwritten signature in black ink that reads "Doug Little".

**Doug Little**  
Soybean Seed Marketing Manager

A handwritten signature in black ink that reads "Bryan Perry".

**Bryan Perry**  
U.S. Head of Seeds and Traits

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# Who We Are





# Xitavo™ Soybean Seed. Seed Done Right.



Farming done right starts with seed done right.

That's why BASF is proud to partner with MS Technologies to offer Xitavo™ soybean seed – a foundational soybean seed that's made with best-in-class innovation for proven performance. A seed that's bred to be tougher, with triple-stacked Enlist E3® technology for weed control flexibility. And, finally, a seed that's protected by BASF's versatile seed treatment and crop protection portfolio.

Seed done right? It's here.

To find your Xitavo soybean seed retailer, visit [retailerfinder.basf.us](http://retailerfinder.basf.us)

# Agronomic Expertise

**1** Teams of BASF Agronomic Solutions Advisors, Agronomists and Authorized Retailers

**2** In-depth insights on seed, traits, seed treatment and crop protection

**3** Local support and on-farm planning utilizing the latest digital tools and information



**Find Your Rep**

## Continuous Innovation

- Industry-leading soybean trait pipeline, including stacked herbicide traits and novel nematode resistance trait
- Stacked herbicide traits designed to deliver varieties that fit your needs
- Robust crop protection pipeline to combat weeds and pests to maximize yield potential from seed to harvest

## Trusted Partnership

- Best-in-class quality practices beyond industry standards
- Meticulous testing and assessment at every stage, from harvest to shipping
- A team of experts to support you throughout the entire growing season
- Liberty<sup>®</sup> Herbicide Weed Control Guarantee program\*

## Proven Performance

- A lineup of high-performing soybean seed varieties to maximize ROI
- Leading seed treatment options that enhance emergence and early vigor
- Complete selection of top-of-the-line crop protection solutions

# We're Your Partners From Seed to Bin



**No one knows more about your soybean field than you. And no one knows more about the science of soybeans than BASF.**

Behind every great soybean farmer is a team of BASF soybean experts focused on helping you take your farm to the next level with Xitavo™ soybean seed. BASF Seed Agronomists and Agronomic Solutions Advisors don't work alone. They consult with BASF Business Reps, Tech Service Reps and Seed Treatment Tech Reps, and collaborate with consultants, university extension specialists and others to capture, evaluate and summarize variety information.

Our skilled and seasoned Agronomic Solutions Advisors provide you with customized advice and recommendations on the right seed variety, seed treatments and crop protection products for your fields.



# BASF Agronomic Services Team



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**Marshall Beatty**

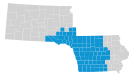
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**Throughout the growing season, you can tap into agronomic insights and customized recommendations from our expert agronomists to deal with your toughest challenges, so your soybean fields can reach their full potential.**



**William Backhaus**

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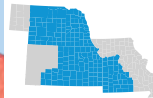
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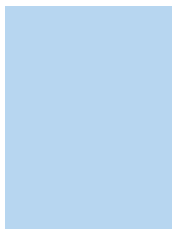
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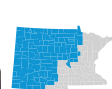
**Open**

Seed Agronomist



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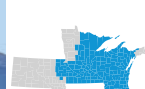
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# BASF Testing Program

We do everything possible to make Xitavo™ soybean seed your best choice before you put it in your field. From planting date to population, SDS to SCN, white mold to weed management, and row spacing to R3 fungicide, we know Xitavo soybean seed.

## Product Deployment

- The BASF Variety Development team has full control of portfolio construct and determines which products are worthy of being in a Xitavo soybean seed bag.
- New additions to the portfolio must meet stringent requirements in order to maintain the highest quality standards.
- We aggressively manage product life cycle to ensure capitalization of genetic yield gains by soybean breeders.

## Seed Quality

- The BASF Production Team only uses multipliers with state-of-the-art equipment like air-screen cleaners and color sorters.
- In addition to the industry-standard required quality tests, we go above and beyond with tests that meet our rigorous standards.
- We're a reliable supplier because of best-in-class production planning and risk mitigation.

## Variety Placement

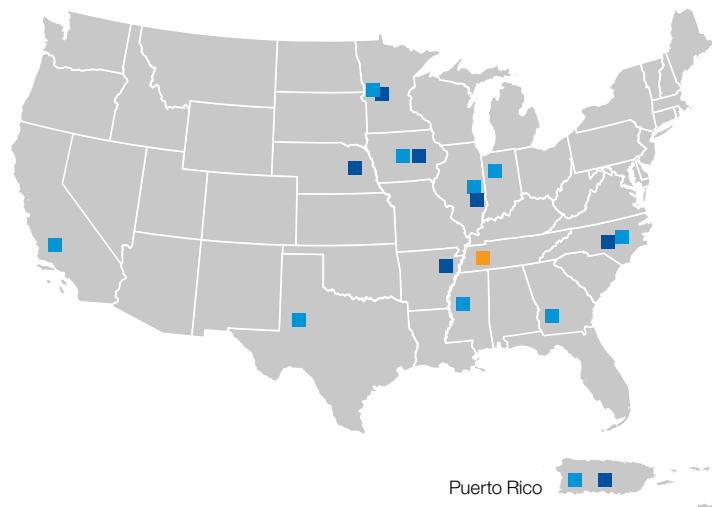
- BASF Seed Agronomists extensively test Xitavo soybean seed varieties in hundreds of locations across the Midwest to help refine local placement recommendations.
- The BASF Pathology Lab fully characterizes each variety, so we can confidently place and position varieties against specific biotic stresses.
- We refine placement of new varieties BEFORE they are sold – we don't ever want your field to be a test plot.

### Trait Development

- |             |                            |
|-------------|----------------------------|
| Shafter, CA | Leland, MS                 |
| Lubbock, TX | Albany, GA                 |
| Sabin, MN   | Pine Level & Pikeville, NC |
| Nevada, IA  | Fowler, IN                 |
| Seymour, IL | Guanica, Puerto Rico       |

### Breeding & Pathology

- |  |   |
|--|---|
| Marion, AR<br>Late MG3 through early MG5               | Beaver Crossing, NE<br>Early MG2 through late MG3 |
| Nevada, IA<br>Mid MG1 through mid MG3                  | Seymour, IL<br>Mid MG2 through early MG4          |
| Pikeville, NC<br>Discovery breeding only               | Sabin, MN<br>Late MG00 through mid MG1            |
| Memphis, TN<br>Soybean Pathology<br>Greenhouse and Lab | Sabana Grande, Puerto Rico<br>Trait Introgression |



# BASF Breeding Program

We leverage a variety of innovative research and development techniques to build better soybeans for better outcomes.

## Trait Development

- Delivering GM and native trait solutions to meet evolving farmer needs globally
- Deriving quality data utilizing screening technologies from different genetic backgrounds and environments to enable timely commercialization

## Breeding Stations

- Five state-of-the-art soybean breeding facilities and a testing network across North America, ensuring varietal adaptability locally
- Developing new breeding approaches and technologies to increase genetic gain more rapidly
- Developing superior varieties with top yield potential, defensive characteristics, improved agronomics and valuable traits

## Pathology

- Greenhouse assays and field disease trials evaluating all the major soybean pathogens to ensure complete characterization of commercial lines, increasing variety positioning and placement confidence
- Breeding support for molecular marker development and resistance mapping

## BASF Variety Development Team



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# 2024 Xitavo™ Soybean Seed Varieties





# Performance You Can Count On

In 2022, Xitavo™ soybean seed once again took home top honors in multiple independent field trials, including WinField® United's Answer Plot® testing program and the Farmers' Independent Research of Seed Technologies (FIRST) trials.

## 2022 Xitavo Soybean WinField United Answer Plot Highlights

RM Test	Xitavo Variety	National	East	East Central	West	West Central	North
0.0	XO 0311E	#3	out of range	out of range	out of range	not tested	#3
0.4	XO 0602E	#4	out of range	#1	out of range	#5	#9
0.8	XO 0731E	#5	out of range	#7	out of range	#7	#4
0.8	XO 0993E	#3	out of range	#17	out of range	#1	#3
0.8	XO 1041E	#8	out of range	#12	out of range	#11	#5
1.2	XO 1372E	#1	out of range	#2	out of range	#1	#1
1.6	XO 1632E	#4	#14	#2	out of range	#7	out of range
2.0	XO 2181E	#7	#17	#8	#11	#9	out of range
2.0	XO 2282E	#8	#13	#7	#7	#14	out of range
2.4	XO 2472E	#10	#6	#14	#15	#9	out of range
2.4	XO 2501E	#4	#12	#3	#5	#4	out of range
2.8	XO 2832E	#4	#12	#1	#2	#13	out of range
3.2	XO 3131E	#7	#14	#12	#10	#6	out of range
3.2	XO 3341E	#2	#5	#2	#3	#2	out of range
3.2	XO 3402E	#4	#4	#6	#2	#10	out of range
3.6	XO 3861E	#2	#19	#2	out of range	#2	out of range
4.0	XO 3922E	#4	#17	#3	out of range	#6	out of range
4.0	XO 4132E	#8	#16	#4	out of range	#3	out of range
4.4	XO 4522E	#3	out of range	#3	out of range	#9	out of range
4.4	XO 4772E	#10	out of range	#6	out of range	#10	out of range

 National Performer

 Regional Winner

**7**  
National Performers

**20**  
Top 10 National Finishes

**5**  
Regional Winners

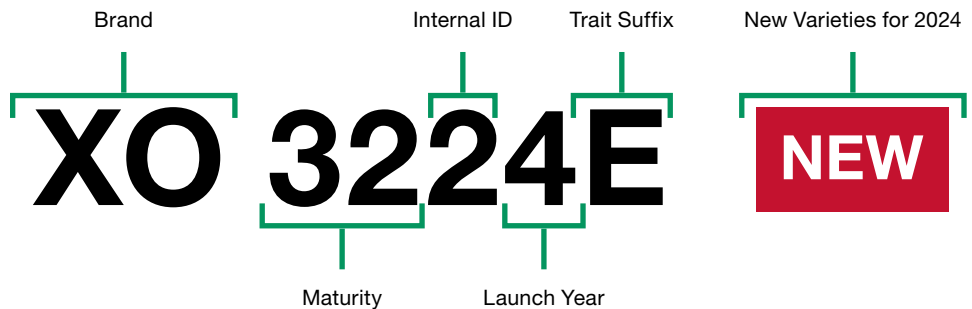
**26**  
Top 5 Regional Finishes

Five varieties were designated National Performers in the 2022 WinField® United Answer Plot® testing program. In total, Xitavo™ soybean seed had 11 varieties place in the top five nationally in RM tests 0.0-4.4. Tests are replicated in dozens of locations and have a high degree of integrity. In order to be a National Performer, a variety must achieve greater than 105% of the national aggregated mean. At the 2022 FIRST trials, Xitavo soybean seeds captured 12 first place finishes, 118 top 10 finishes and 240 top 30 finishes.

**Highlights of the class of 2024:**

- 11 new varieties from a 0.0-4.8 relative maturity
- 2 new “Peking” varieties (XO 2074E and XO 3224E)
- 3 new MG 4s with STS tolerance (XO 4084E, XO 4364E, XO 4894E)
- Class of 2024 offers an average yield improvement of 1.9 bu/A, with many options for outstanding protection against iron deficiency chlorosis (IDC), soybean cyst nematode (SCN), sclerotinia white mold (SWN) and phytophthora root rot (PRR)
- 44 total Xitavo soybean seed varieties available to Midwest growers in 2024

**Xitavo soybean seed variety naming structure**



Plant Characteristics

BRAND NAME	Relative Maturity	Flower Color	Pubescence	Pod Color	Hilum Color	Plant Height	Canopy Type	Emergence	Standability
<b>NEW</b> XO 0094E	0.0	Purple	Gray	Tan	Buff	Med/Avg	Bushy	3	3
XO 0213E	0.2	Purple	Gray	Brown	Buff	Med/Tall	Bushy	3	4
<b>NEW</b> XO 0234E	0.2	Purple	Gray	Tan	Imp Black	Med/Tall	Semi-Bush	3	2
XO 0311E	0.3	White	Gray	Tan	Buff	Medium	Med-Bush	2	3
<b>NEW</b> XO 0554E	0.5	Purple	Gray	Tan	Imp Black	Medium	Semi-Bush	3	3
XO 0602E	0.6	Purple	Gray	Tan	Buff	Medium	Med-Bush	4	2
XO 0731E	0.7	Purple	Gray	Brown	Imp Black	Med/Avg	Med-Bush	2	3
XO 0993E	0.9	Purple	Gray	Tan	Buff	Medium	Bushy	3	4
XO 1041E	1.0	Purple	Gray	Brown	Gray	Medium	Semi-Bush	3	4
XO 1133E	1.1	Purple	Gray	Tan	Imp Black	Medium	Semi-Bush	2	3
XO 1212E	1.2	Purple	Gray	Tan	Imp Black	Med/Tall	Semi-Bush	3	3
XO 1372E	1.3	Purple	Gray	Brown	Imp Black	Medium	Med-Bush	4	3
<b>NEW</b> XO 1404E	1.4	Purple	Gray	Tan	Imp Black	Med/Avg	Semi-Bush	3	3
XO 1632E	1.6	Purple	Gray	Tan	Buff	Medium	Med-Bush	2	3
XO 1761E	1.7	Purple	Gray	Brown	Imp Black	Med/Avg	Medium	2	3
XO 1822E	1.8	Purple	Gray	Tan	Buff	Med/Avg	Bushy	3	4
XO 1971E	1.9	Purple	Gray	Brown	Imp Black	Med/Tall	Med-Bush	2	3
<b>NEW</b> XO 2074E	2.0	Purple	Gray	Tan	Buff	Med/Avg	Semi-Bush	3	2
XO 2181E	2.1	Purple	Gray	Brown	Imp Black	Med/Tall	Medium	3	3
XO 2282E	2.2	White	Gray	Tan	Buff	Med/Avg	Medium	3	3
XO 2323E	2.3	Purple	Lt Tawny	Tan	Black	Med/Tall	Med-Bush	3	4
<b>NEW</b> XO 2444E	2.4	Purple	Gray	Brown	Buff	Med/Tall	Semi-Bush	3	4
XO 2501E	2.5	Purple	Gray	Brown	Imp Black	Med/Tall	Bushy	3	5
XO 2613E	2.6	Purple	Gray	Tan	Buff	Med/Tall	Med-Bush	3	3
XO 2832E	2.8	Purple	Gray	Brown	Imp Black	Med/Avg	Medium	3	3
XO 2921E	2.9	Purple	Gray	Tan	Imp Black	Med/Tall	Medium	3	1
XO 2963E	2.9	Purple	Gray	Tan	Imp Black	Medium	Med-Bush	3	4
<b>NEW</b> XO 3014E	3.0	Purple	Gray	Brown	Imp Black	Med/Tall	Semi-Bush	3	4
XO 3131E	3.1	White	Gray	Brown	Buff	Med/Tall	Med-Bush	2	3
<b>NEW</b> XO 3224E	3.2	Purple	Gray	Tan	Imp Black	Med/Avg	Bushy	3	3
XO 3341E	3.3	Purple	Lt Tawny	Brown	Brown	Med/Tall	Med-Bush	2	4
XO 3483E	3.4	Purple	Lt Tawny	Brown	Black	Med/Tall	Med-Bush	3	4
XO 3651E	3.6	Purple	Gray	Tan	Imp Black	Med/Tall	Med-Bush	3	3
XO 3752E	3.7	Purple	Lt Tawny	Brown	Black	Med/Avg	Med-Bush	3	3
XO 3803E	3.8	White	Lt Tawny	Tan	Brown	Med/Tall	Med-Bush	3	4
XO 3861E	3.8	White	Lt Tawny	Brown	Brown	Medium	Med-Bush	3	2
XO 3922E	3.9	White	Lt Tawny	Tan	Brown	Med/Avg	Bushy	2	2
<b>NEW</b> XO 4084E	4.0	White	Lt Tawny	Tan	Brown	Med/Tall	Semi-Bush	3	4
XO 4132E	4.1	White	Lt Tawny	Brown	Brown	Med/Tall	Med-Bush	2	4
<b>NEW</b> XO 4364E	4.3	White	Lt Tawny	Tan	Brown	Med/Tall	Semi-Bush	3	3
XO 4522E	4.5	White	Gray	Brown	Buff	Med/Avg	Semi-Bush	3	3
XO 4653E	4.6	White	Tawny	Brown	Brown	Med/Avg	Semi-Bush	2	2
XO 4772E	4.7	White	Gray	Brown	Buff	Med/Tall	Semi-Bush	2	4
<b>NEW</b> XO 4894E	4.8	White	Gray	Brown	Buff	Med/Tall	Bushy	3	3

Rating Scale: 1 = Excellent    9 = Poor    - = Not observed    NG = No gene detected



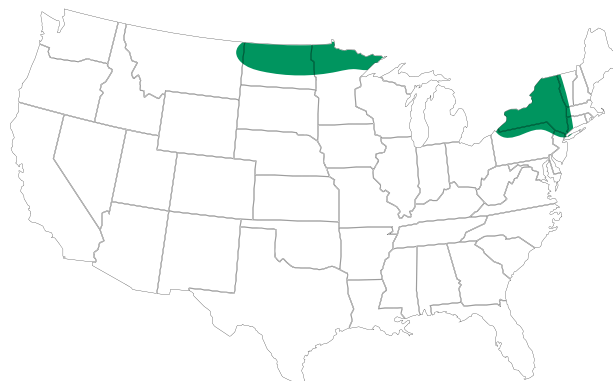
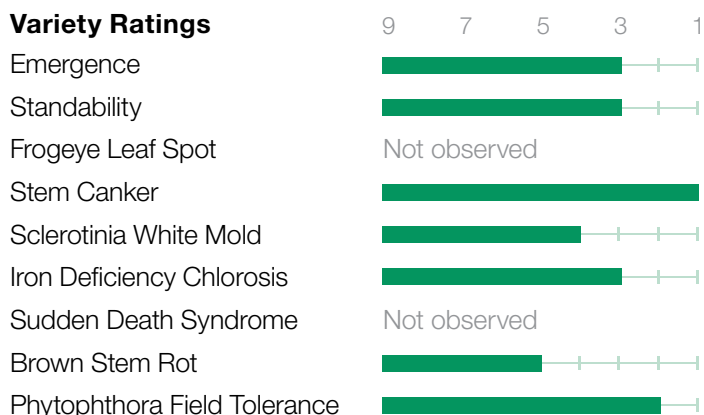


## Explore Seed Varieties

Pest/Disease Resistance											
Soybean Cyst Nematode	Phytophthora Source	Phytophthora Field Tolerance	Sudden Death Syndrome	Brown Stem Rot	Frogeye Leaf Spot	Stem Canker	Sclerotinia White Mold	Iron Deficiency Chlorosis	Sulfonylurea Tolerance	BRAND NAME	
PI88788	Rps3a	2	-	5	-	1	4	3	No	XO 0094E	
-	Rps3a	2	7	2	-	1	4	3	No	XO 0213E	
PI88788	Rps3a	2	-	1	-	1	3	3	No	XO 0234E	
PI88788	NG	4	-	-	-	1	5	3	No	XO 0311E	
PI88788	Rps1k/H3a	2	3	1	-	1	4	3	No	XO 0554E	
PI88788	NG	4	6	3	-	1	4	5	No	XO 0602E	
PI88788	Rps1c/3a	2	-	-	-	1	3	3	No	XO 0731E	
Peking	Rps3a	3	5	2	-	1	4	4	No	XO 0993E	
PI88788	NG	3	5	1	-	1	3	4	No	XO 1041E	
PI88788	NG	5	4	1	-	1	6	3	No	XO 1133E	
PI88788	Rps1c	3	3	3	-	1	4	3	No	XO 1212E	
PI88788	NG	4	4	5	-	1	4	4	Yes	XO 1372E	
PI88788	Rps1c	2	4	1	-	1	4	2	No	XO 1404E	
PI88788	Rps3a	2	3	1	-	1	5	3	No	XO 1632E	
PI88788	Rps1k	3	4	-	4	1	2	4	No	XO 1761E	
PI88788	Rps3a	2	3	3	-	1	6	7	No	XO 1822E	
PI88788	NG	3	3	3	4	1	3	4	No	XO 1971E	
Peking	Rps1k	2	3	5	-	1	3	3	No	XO 2074E	
PI88788	Rps1k	3	4	1	4	1	4	5	No	XO 2181E	
PI88788	NG	3	3	1	-	1	5	3	No	XO 2282E	
PI88788	Rps 1c	3	4	1	-	1	4	3	No	XO 2323E	
PI88788	Rps1a	3	4	5	-	1	4	5	Yes	XO 2444E	
PI88788	NG	3	3	1	2	1	6	2	No	XO 2501E	
PI88788	Rps1c	4	2	1	4	1	4	4	No	XO 2613E	
PI88788	Rps1k	3	3	3	5	1	4	3	No	XO 2832E	
PI88788	NG	2	4	1	3	1	3	7	No	XO 2921E	
Peking	Rps1k	6	2	1	4	1	5	4	No	XO 2963E	
PI88788	-	2	4	1	4	1	4	4	Yes	XO 3014E	
PI88788	Rps1c	2	5	3	2	1	5	6	No	XO 3131E	
Peking	-	2	3	1	4	1	-	4	No	XO 3224E	
PI88788	NG	3	5	3	4	1	5	3	No	XO 3341E	
PI88788	Rps1k	3	2	3	4	1	4	5	No	XO 3483E	
PI88788	Rps1k	3	3	1	4	1	5	6	No	XO 3651E	
PI88788	Rps1k	4	2	1	4	1	4	6	Yes	XO 3752E	
PI88788	Rps1c	4	5	4	3	1	5	3	Yes	XO 3803E	
PI88788	Rps1k	4	5	5	2	1	-	5	Yes	XO 3861E	
PI88788	Rps1k	3	4	3	2	1	5	5	No	XO 3922E	
PI88788	Rps1c	3	5	5	3	1	-	-	Yes	XO 4084E	
PI88788	NG	4	4	-	3	1	-	3	No	XO 4132E	
PI88788	Rps1k	3	3	1	3	1	-	-	Yes	XO 4364E	
PI88788	NG	4	4	-	3	1	-	-	No	XO 4522E	
PI88788	NG	4	4	-	2	1	-	-	Yes	XO 4653E	
PI88788	NG	5	4	-	3	1	-	-	No	XO 4772E	
PI88788	RpsH1c	4	-	1	3	1	-	-	Yes	XO 4894E	

# XO 0094E NEW

### Variety Ratings

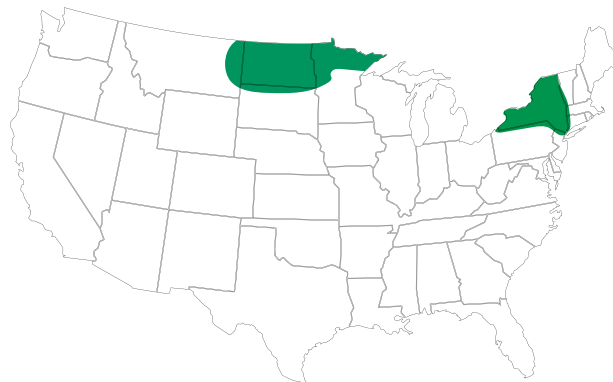
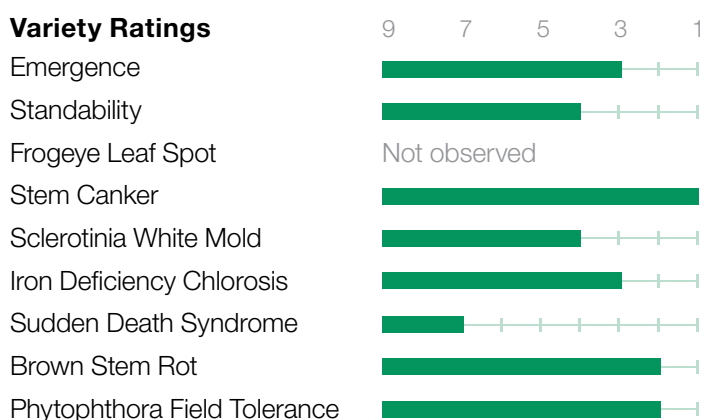


### Plant Characteristics

Relative Maturity _____	<b>0.0</b>	Canopy Type _____	<b>Bushy</b>
Pubescence _____	<b>Gray</b>	Soybean Cyst Nematode _____	<b>PI88788</b>
Pod Color _____	<b>Tan</b>	Phytophthora Source _____	<b>Rps3a</b>
Plant Height _____	<b>Med/Avg</b>	Sulfonylurea Tolerance _____	<b>No</b>

# XO 0213E

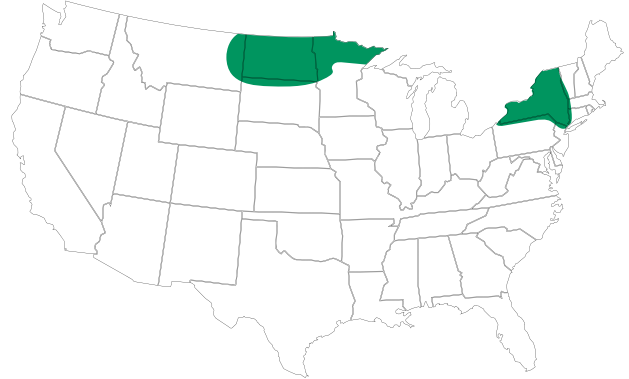
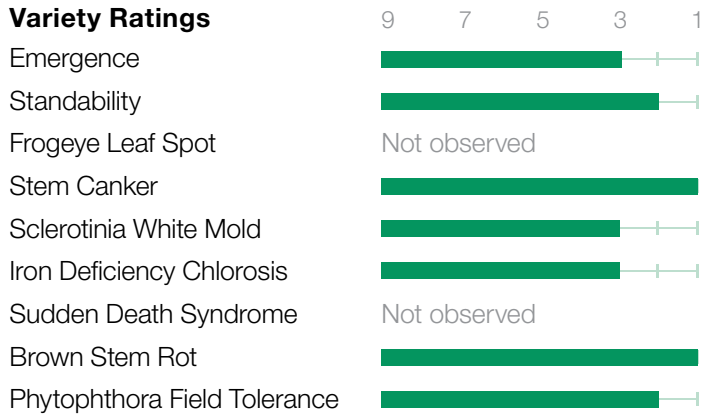
### Variety Ratings



### Plant Characteristics

Relative Maturity _____	<b>0.2</b>	Canopy Type _____	<b>Bushy</b>
Pubescence _____	<b>Gray</b>	Soybean Cyst Nematode _____	<b>No</b>
Pod Color _____	<b>Brown</b>	Phytophthora Source _____	<b>Rps3a</b>
Plant Height _____	<b>Med/Tall</b>	Sulfonylurea Tolerance _____	<b>No</b>

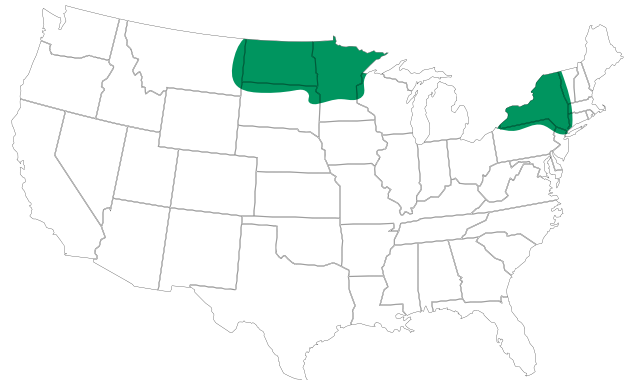
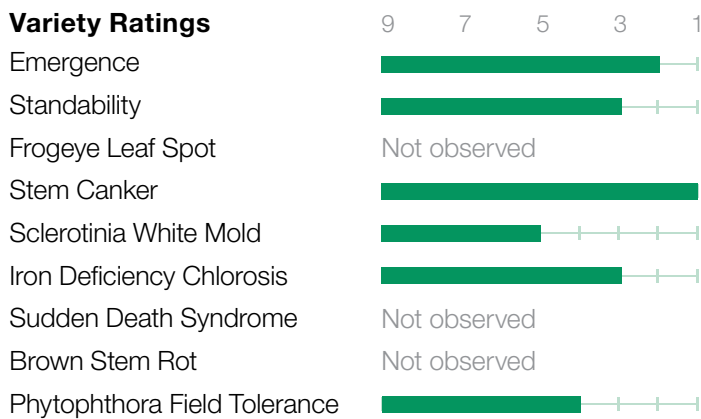
# XO 0234E NEW



**Plant Characteristics**

Relative Maturity _____	<b>0.2</b>	Canopy Type _____	<b>Semi-Bush</b>
Pubescence _____	<b>Gray</b>	Soybean Cyst Nematode _____	<b>PI88788</b>
Pod Color _____	<b>Tan</b>	Phytophthora Source _____	<b>Rps3a</b>
Plant Height _____	<b>Med/Tall</b>	Sulfonylurea Tolerance _____	<b>No</b>

# XO 0311E

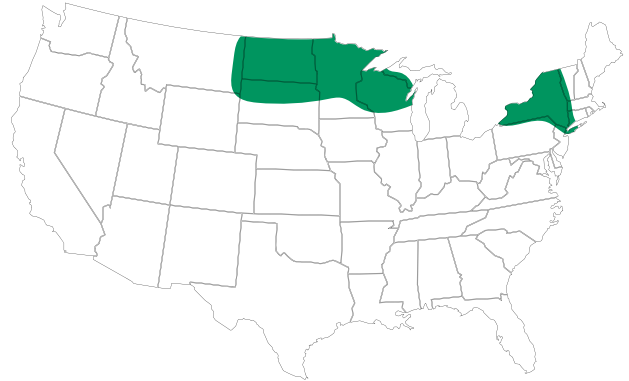
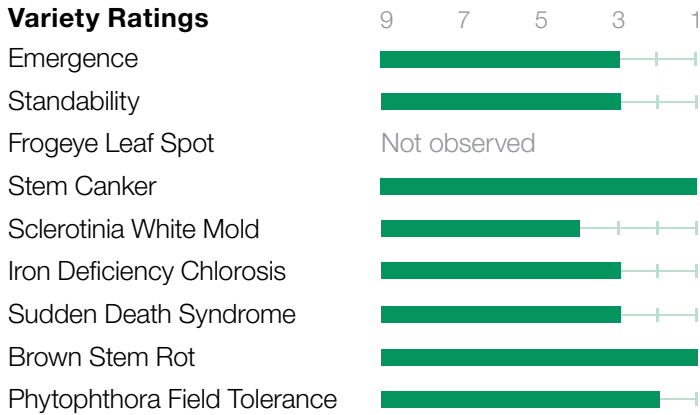


**Plant Characteristics**

Relative Maturity _____	<b>0.3</b>	Canopy Type _____	<b>Med-Bush</b>
Pubescence _____	<b>Gray</b>	Soybean Cyst Nematode _____	<b>PI88788</b>
Pod Color _____	<b>Tan</b>	Phytophthora Source _____	<b>NG</b>
Plant Height _____	<b>Medium</b>	Sulfonylurea Tolerance _____	<b>No</b>

# XO 0554E NEW

### Variety Ratings

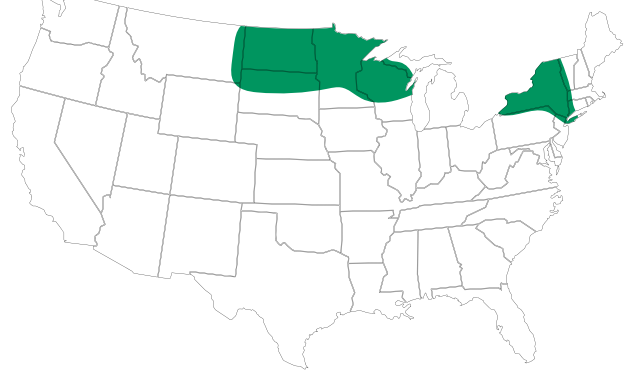
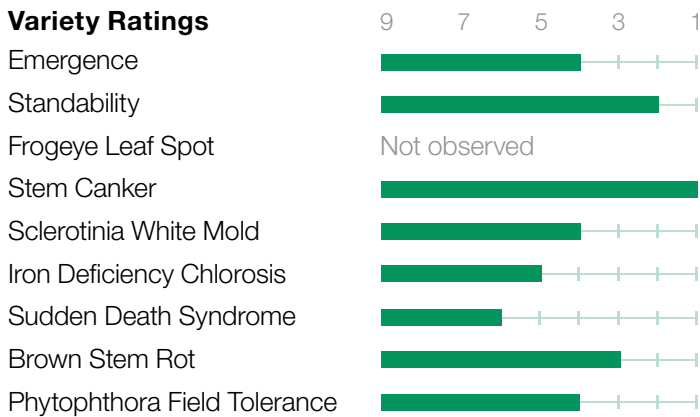


### Plant Characteristics

Relative Maturity _____	<b>0.5</b>	Canopy Type _____	<b>Semi-Bush</b>
Pubescence _____	<b>Gray</b>	Soybean Cyst Nematode _____	<b>PI88788</b>
Pod Color _____	<b>Tan</b>	Phytophthora Source _____	<b>Rps1k/H3a</b>
Plant Height _____	<b>Medium</b>	Sulfonylurea Tolerance _____	<b>No</b>

# XO 0602E

### Variety Ratings

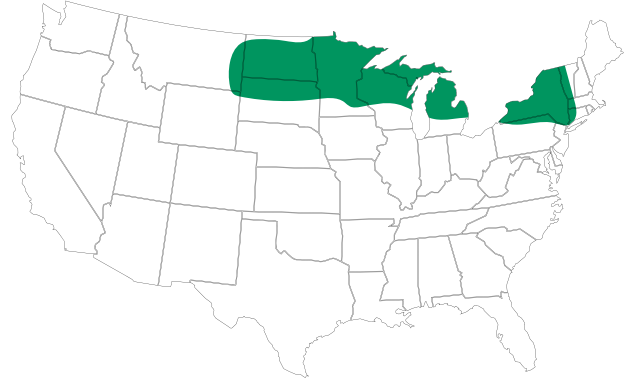
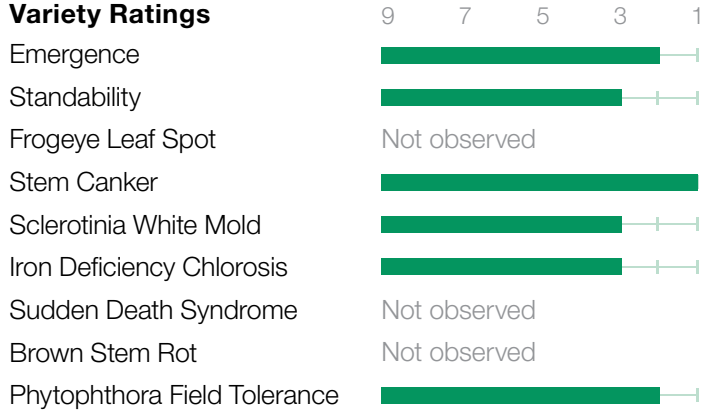


### Plant Characteristics

Relative Maturity _____	<b>0.6</b>	Canopy Type _____	<b>Med-Bush</b>
Pubescence _____	<b>Gray</b>	Soybean Cyst Nematode _____	<b>PI88788</b>
Pod Color _____	<b>Tan</b>	Phytophthora Source _____	<b>NG</b>
Plant Height _____	<b>Medium</b>	Sulfonylurea Tolerance _____	<b>No</b>

# XO 0731E

## Variety Ratings

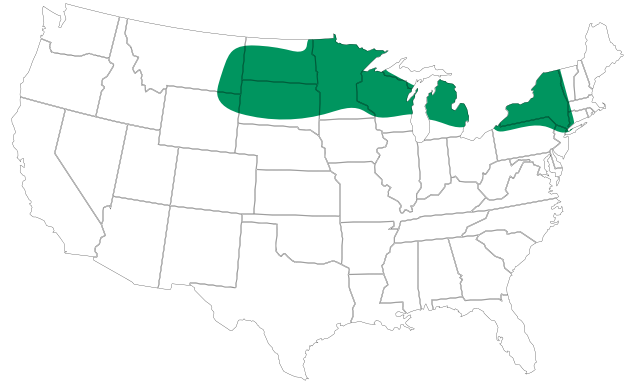
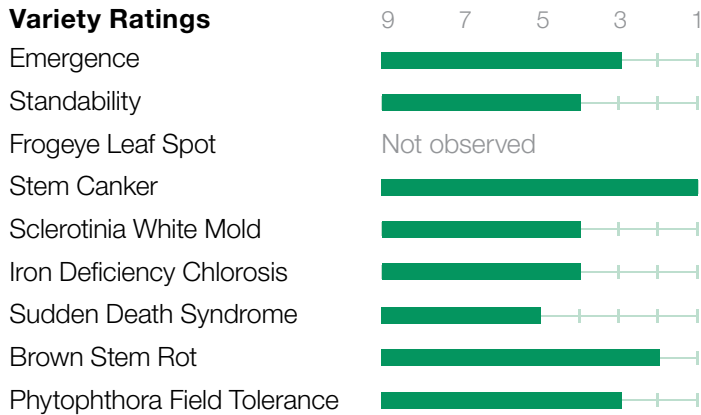


## Plant Characteristics

Relative Maturity _____	<b>0.7</b>	Canopy Type _____	<b>Med-Bush</b>
Pubescence _____	<b>Gray</b>	Soybean Cyst Nematode _____	<b>PI88788</b>
Pod Color _____	<b>Brown</b>	Phytophthora Source _____	<b>Rps1c/3a</b>
Plant Height _____	<b>Med/Avg</b>	Sulfonylurea Tolerance _____	<b>No</b>

# XO 0993E

## Variety Ratings



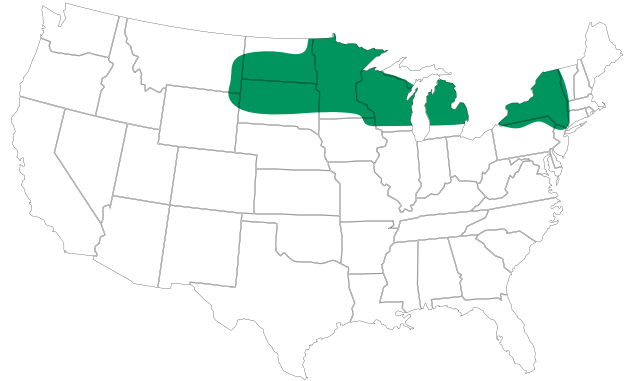
## Plant Characteristics

Relative Maturity _____	<b>0.9</b>	Canopy Type _____	<b>Bushy</b>
Pubescence _____	<b>Gray</b>	Soybean Cyst Nematode _____	<b>Peking</b>
Pod Color _____	<b>Tan</b>	Phytophthora Source _____	<b>Rps3a</b>
Plant Height _____	<b>Medium</b>	Sulfonylurea Tolerance _____	<b>No</b>

# XO 1041E

## Variety Ratings

	9	7	5	3	1
Emergence	[Progress bar from 9 to 3]				
Standability	[Progress bar from 9 to 5]				
Frogeye Leaf Spot	Not observed				
Stem Canker	[Progress bar from 9 to 1]				
Sclerotinia White Mold	[Progress bar from 9 to 3]				
Iron Deficiency Chlorosis	[Progress bar from 9 to 5]				
Sudden Death Syndrome	[Progress bar from 9 to 4]				
Brown Stem Rot	[Progress bar from 9 to 1]				
Phytophthora Field Tolerance	[Progress bar from 9 to 3]				



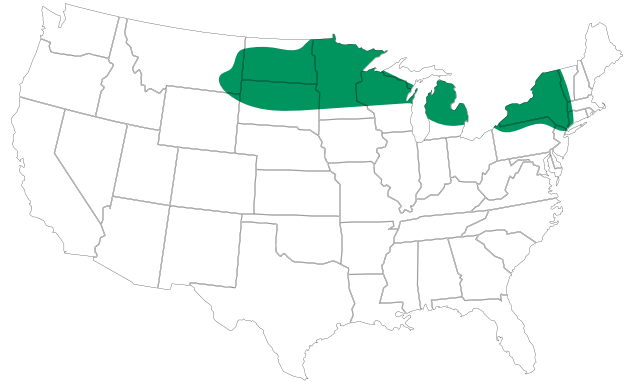
## Plant Characteristics

Relative Maturity _____	<b>1.0</b>	Canopy Type _____	<b>Semi-Bush</b>
Pubescence _____	<b>Gray</b>	Soybean Cyst Nematode _____	<b>PI88788</b>
Pod Color _____	<b>Brown</b>	Phytophthora Source _____	<b>NG</b>
Plant Height _____	<b>Medium</b>	Sulfonylurea Tolerance _____	<b>No</b>

# XO 1133E

## Variety Ratings

	9	7	5	3	1
Emergence	[Progress bar from 9 to 3]				
Standability	[Progress bar from 9 to 5]				
Frogeye Leaf Spot	Not observed				
Stem Canker	[Progress bar from 9 to 1]				
Sclerotinia White Mold	[Progress bar from 9 to 4]				
Iron Deficiency Chlorosis	[Progress bar from 9 to 5]				
Sudden Death Syndrome	[Progress bar from 9 to 4]				
Brown Stem Rot	[Progress bar from 9 to 1]				
Phytophthora Field Tolerance	[Progress bar from 9 to 4]				

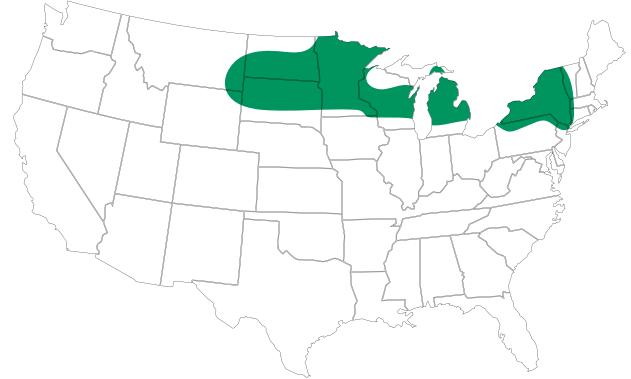
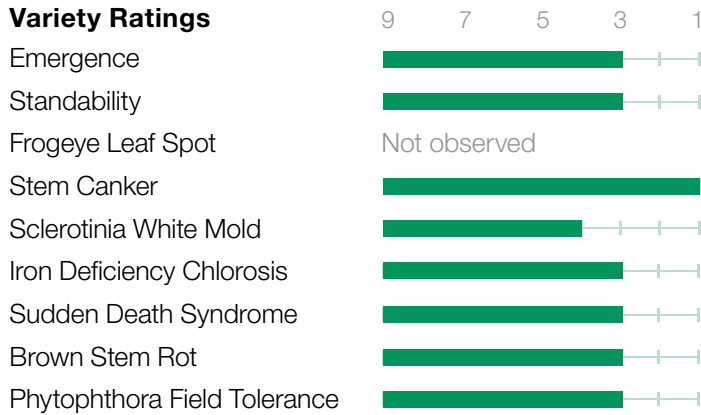


## Plant Characteristics

Relative Maturity _____	<b>1.1</b>	Canopy Type _____	<b>Semi-Bush</b>
Pubescence _____	<b>Gray</b>	Soybean Cyst Nematode _____	<b>PI88788</b>
Pod Color _____	<b>Tan</b>	Phytophthora Source _____	<b>NG</b>
Plant Height _____	<b>Medium</b>	Sulfonylurea Tolerance _____	<b>No</b>

# XO 1212E

## Variety Ratings

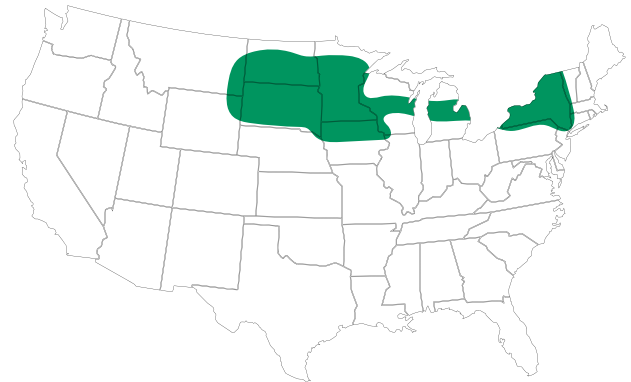
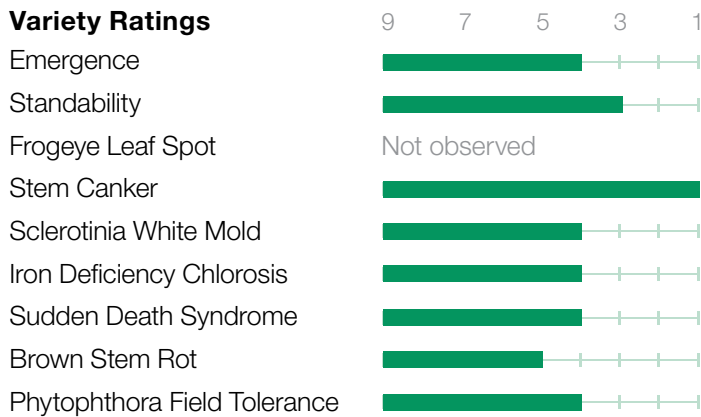


## Plant Characteristics

Relative Maturity _____	<b>1.2</b>	Canopy Type _____	<b>Semi-Bush</b>
Pubescence _____	<b>Gray</b>	Soybean Cyst Nematode _____	<b>PI88788</b>
Pod Color _____	<b>Tan</b>	Phytophthora Source _____	<b>Rps1c</b>
Plant Height _____	<b>Med/Tall</b>	Sulfonylurea Tolerance _____	<b>No</b>

# XO 1372E

## Variety Ratings



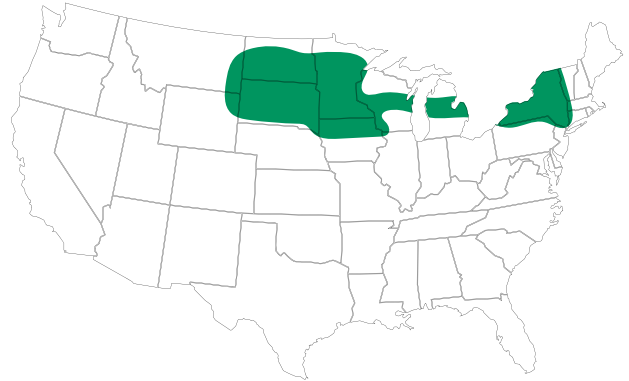
## Plant Characteristics

Relative Maturity _____	<b>1.3</b>	Canopy Type _____	<b>Med-Bush</b>
Pubescence _____	<b>Gray</b>	Soybean Cyst Nematode _____	<b>PI88788</b>
Pod Color _____	<b>Brown</b>	Phytophthora Source _____	<b>NG</b>
Plant Height _____	<b>Medium</b>	Sulfonylurea Tolerance _____	<b>Yes</b>

# XO 1404E NEW

### Variety Ratings

	9	7	5	3	1
Emergence	██████████				
Standability	██████████				
Frogeye Leaf Spot	Not observed				
Stem Canker	██████████				
Sclerotinia White Mold	██████████				
Iron Deficiency Chlorosis	██████████				
Sudden Death Syndrome	██████████				
Brown Stem Rot	██████████				
Phytophthora Field Tolerance	██████████				



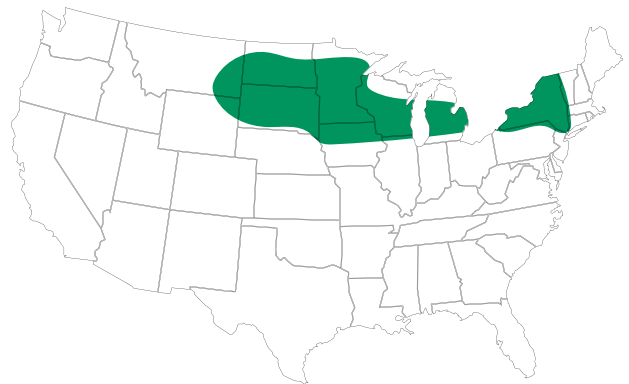
### Plant Characteristics

Relative Maturity _____	<b>1.4</b>	Canopy Type _____	<b>Semi-Bush</b>
Pubescence _____	<b>Gray</b>	Soybean Cyst Nematode _____	<b>PI88788</b>
Pod Color _____	<b>Tan</b>	Phytophthora Source _____	<b>Rps1c</b>
Plant Height _____	<b>Med/Avg</b>	Sulfonyleurea Tolerance _____	<b>No</b>

# XO 1632E

### Variety Ratings

	9	7	5	3	1
Emergence	██████████				
Standability	██████████				
Frogeye Leaf Spot	Not observed				
Stem Canker	██████████				
Sclerotinia White Mold	██████████				
Iron Deficiency Chlorosis	██████████				
Sudden Death Syndrome	██████████				
Brown Stem Rot	██████████				
Phytophthora Field Tolerance	██████████				



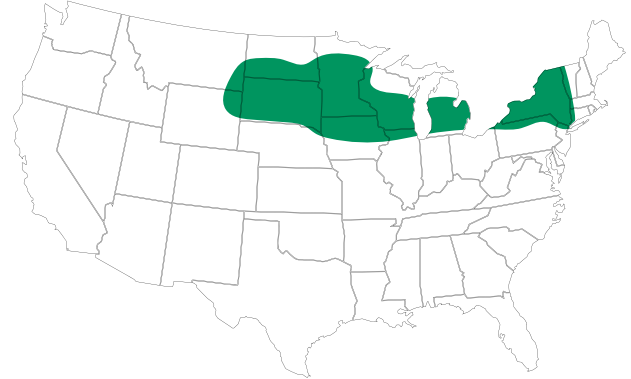
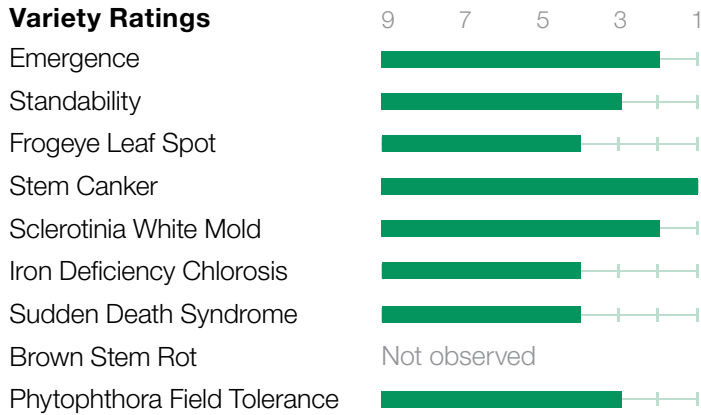
### Plant Characteristics

Relative Maturity _____	<b>1.6</b>	Canopy Type _____	<b>Med-Bush</b>
Pubescence _____	<b>Gray</b>	Soybean Cyst Nematode _____	<b>PI88788</b>
Pod Color _____	<b>Tan</b>	Phytophthora Source _____	<b>Rps3a</b>
Plant Height _____	<b>Medium</b>	Sulfonyleurea Tolerance _____	<b>No</b>



# XO 1761E

## Variety Ratings

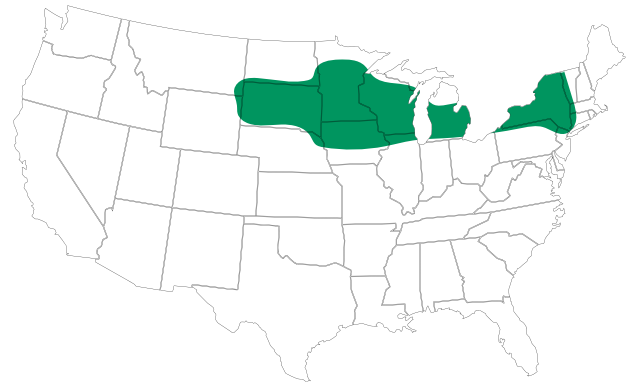
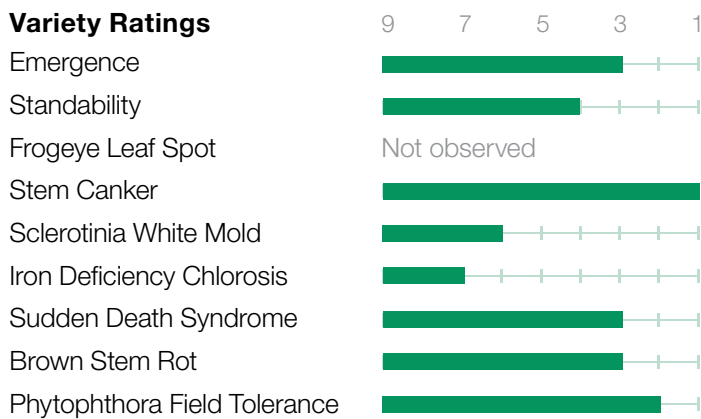


## Plant Characteristics

Relative Maturity _____	<b>1.7</b>	Canopy Type _____	<b>Medium</b>
Pubescence _____	<b>Gray</b>	Soybean Cyst Nematode _____	<b>PI88788</b>
Pod Color _____	<b>Brown</b>	Phytophthora Source _____	<b>Rps1k</b>
Plant Height _____	<b>Med/Avg</b>	Sulfonylurea Tolerance _____	<b>No</b>

# XO 1822E

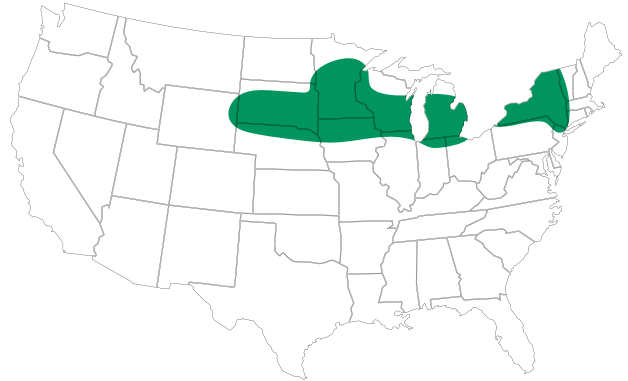
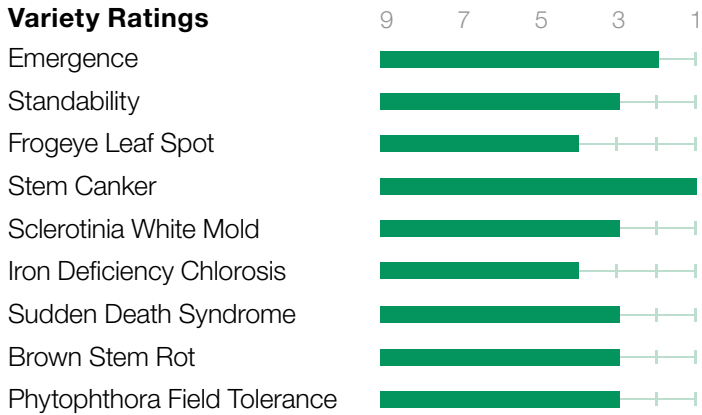
## Variety Ratings



## Plant Characteristics

Relative Maturity _____	<b>1.8</b>	Canopy Type _____	<b>Bushy</b>
Pubescence _____	<b>Gray</b>	Soybean Cyst Nematode _____	<b>PI88788</b>
Pod Color _____	<b>Tan</b>	Phytophthora Source _____	<b>Rps3a</b>
Plant Height _____	<b>Med/Avg</b>	Sulfonylurea Tolerance _____	<b>No</b>

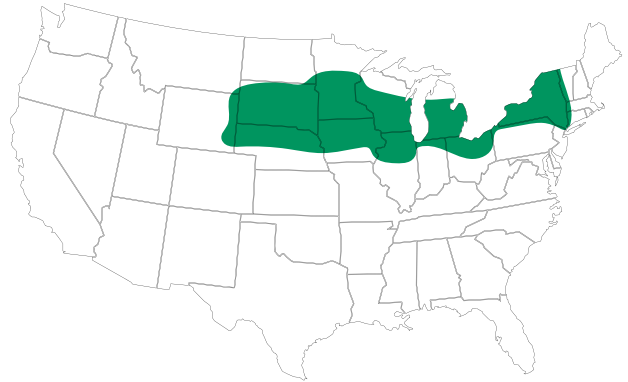
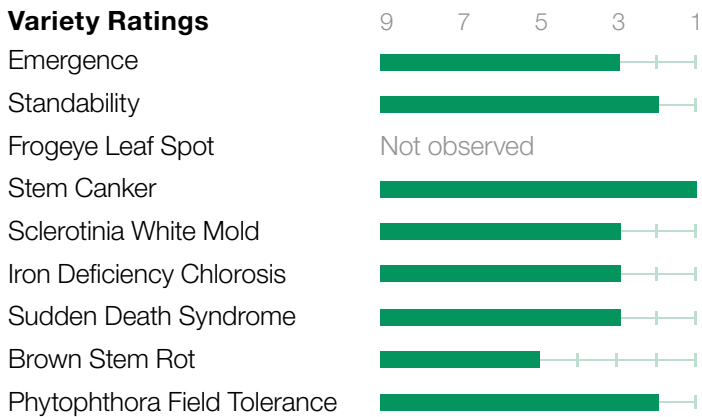
# XO 1971E



**Plant Characteristics**

Relative Maturity _____	<b>1.9</b>	Canopy Type _____	<b>Med-Bush</b>
Pubescence _____	<b>Gray</b>	Soybean Cyst Nematode _____	<b>PI88788</b>
Pod Color _____	<b>Brown</b>	Phytophthora Source _____	<b>NG</b>
Plant Height _____	<b>Med/Tall</b>	Sulfonylurea Tolerance _____	<b>No</b>

# XO 2074E NEW

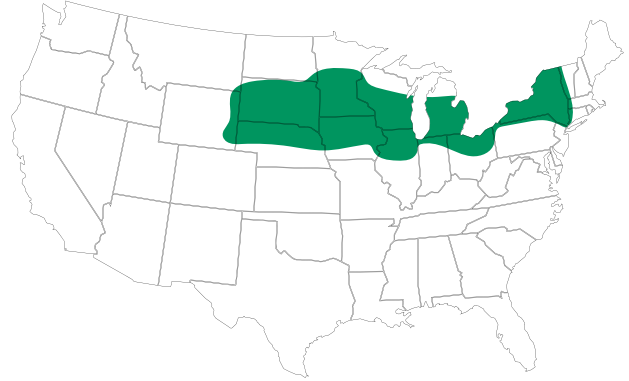
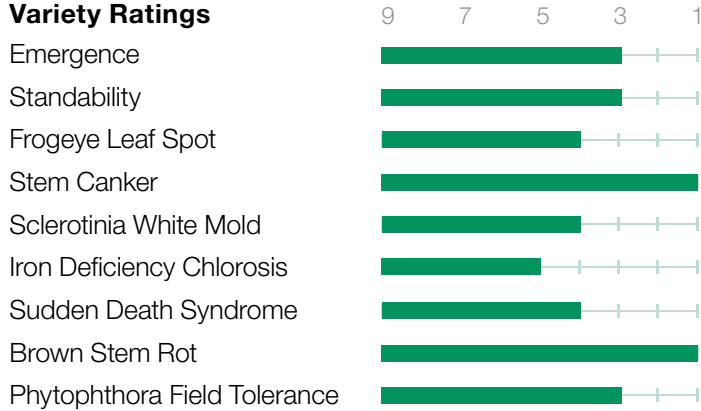


**Plant Characteristics**

Relative Maturity _____	<b>2.0</b>	Canopy Type _____	<b>Semi-Bush</b>
Pubescence _____	<b>Gray</b>	Soybean Cyst Nematode _____	<b>Peking</b>
Pod Color _____	<b>Tan</b>	Phytophthora Source _____	<b>Rps1k</b>
Plant Height _____	<b>Med/Avg</b>	Sulfonylurea Tolerance _____	<b>No</b>

# XO 2181E

## Variety Ratings



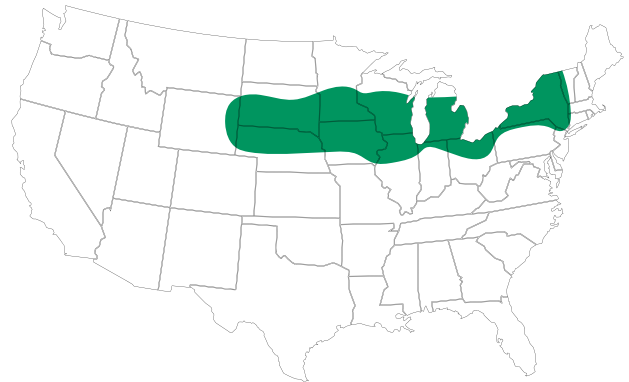
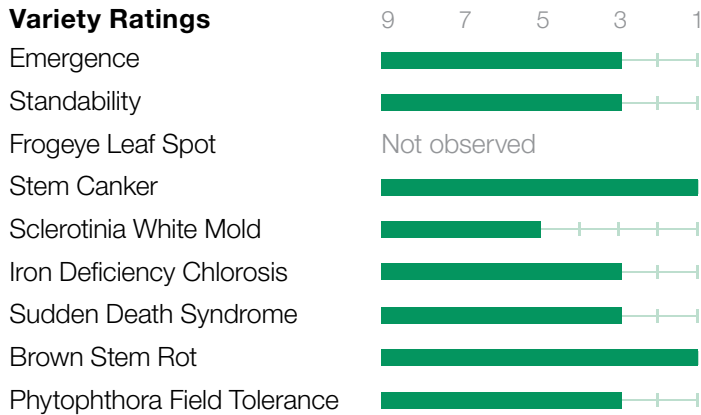
## Plant Characteristics

Relative Maturity \_\_\_\_\_ **2.1**  
 Pubescence \_\_\_\_\_ **Gray**  
 Pod Color \_\_\_\_\_ **Brown**  
 Plant Height \_\_\_\_\_ **Med/Tall**

Canopy Type \_\_\_\_\_ **Medium**  
 Soybean Cyst Nematode \_\_\_\_\_ **PI88788**  
 Phytophthora Source \_\_\_\_\_ **Rps1k**  
 Sulfonylurea Tolerance \_\_\_\_\_ **No**

# XO 2282E

## Variety Ratings



## Plant Characteristics

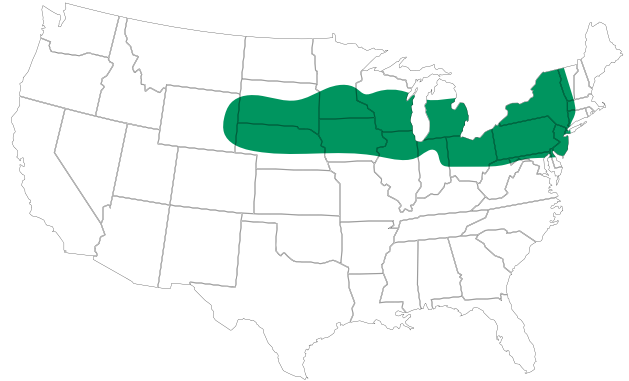
Relative Maturity \_\_\_\_\_ **2.2**  
 Pubescence \_\_\_\_\_ **Gray**  
 Pod Color \_\_\_\_\_ **Tan**  
 Plant Height \_\_\_\_\_ **Med/Avg**

Canopy Type \_\_\_\_\_ **Medium**  
 Soybean Cyst Nematode \_\_\_\_\_ **PI88788**  
 Phytophthora Source \_\_\_\_\_ **NG**  
 Sulfonylurea Tolerance \_\_\_\_\_ **No**

# XO 2323E

## Variety Ratings

	9	7	5	3	1
Emergence	██████████				
Standability	██████████				
Frogeye Leaf Spot	Not observed				
Stem Canker	██████████				
Sclerotinia White Mold	██████████				
Iron Deficiency Chlorosis	██████████				
Sudden Death Syndrome	██████████				
Brown Stem Rot	██████████				
Phytophthora Field Tolerance	██████████				



## Plant Characteristics

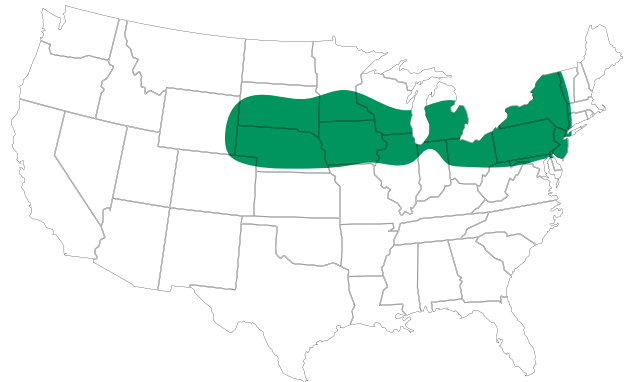
Relative Maturity _____	<b>2.3</b>	Canopy Type _____	<b>Med-Bush</b>
Pubescence _____	<b>Lt Tawny</b>	Soybean Cyst Nematode _____	<b>PI88788</b>
Pod Color _____	<b>Tan</b>	Phytophthora Source _____	<b>Rps1c</b>
Plant Height _____	<b>Med/Tall</b>	Sulfonylurea Tolerance _____	<b>No</b>

# XO 2444E

**NEW**

## Variety Ratings

	9	7	5	3	1
Emergence	██████████				
Standability	██████████				
Frogeye Leaf Spot	Not observed				
Stem Canker	██████████				
Sclerotinia White Mold	██████████				
Iron Deficiency Chlorosis	██████████				
Sudden Death Syndrome	██████████				
Brown Stem Rot	██████████				
Phytophthora Field Tolerance	██████████				

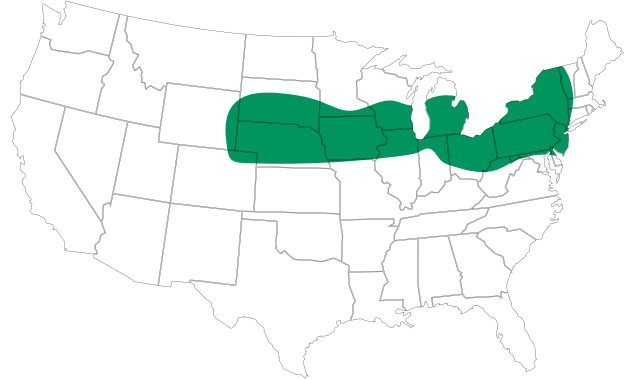
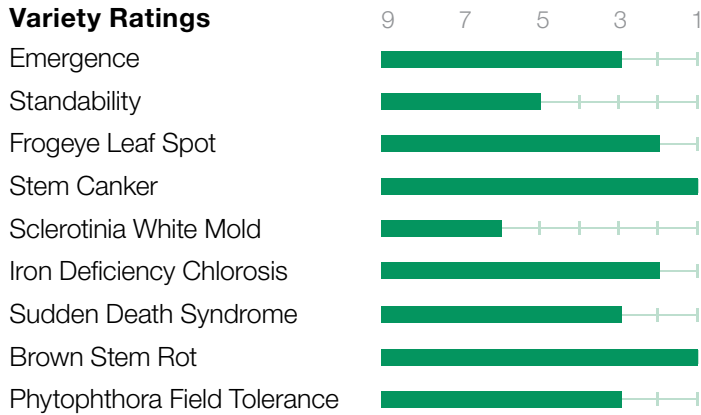


## Plant Characteristics

Relative Maturity _____	<b>2.4</b>	Canopy Type _____	<b>Semi-Bush</b>
Pubescence _____	<b>Gray</b>	Soybean Cyst Nematode _____	<b>PI88788</b>
Pod Color _____	<b>Brown</b>	Phytophthora Source _____	<b>Rps1a</b>
Plant Height _____	<b>Med/Tall</b>	Sulfonylurea Tolerance _____	<b>Yes</b>

# XO 2501E

## Variety Ratings

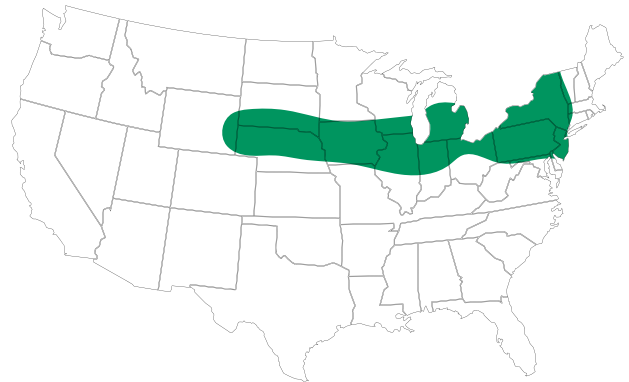
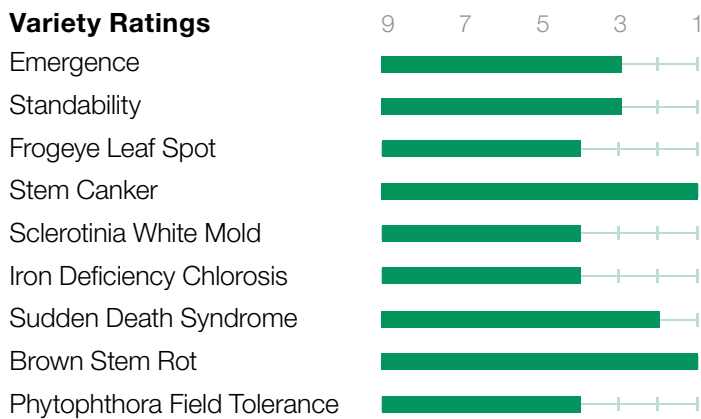


## Plant Characteristics

Relative Maturity _____	<b>2.5</b>	Canopy Type _____	<b>Bushy</b>
Pubescence _____	<b>Gray</b>	Soybean Cyst Nematode _____	<b>PI88788</b>
Pod Color _____	<b>Brown</b>	Phytophthora Source _____	<b>NG</b>
Plant Height _____	<b>Med/Tall</b>	Sulfonylurea Tolerance _____	<b>No</b>

# XO 2613E

## Variety Ratings

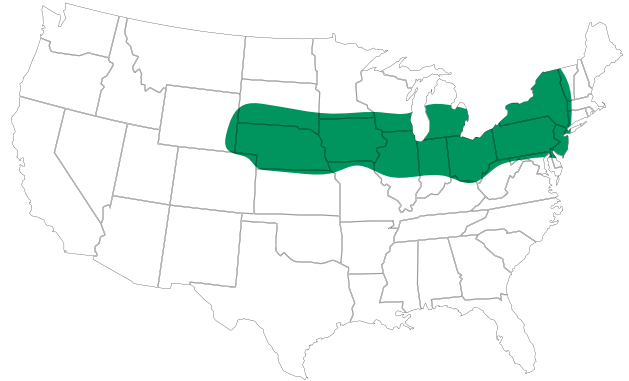
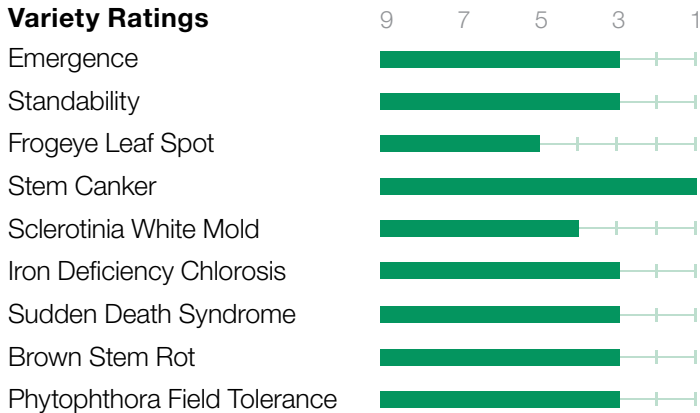


## Plant Characteristics

Relative Maturity _____	<b>2.6</b>	Canopy Type _____	<b>Med-Bush</b>
Pubescence _____	<b>Gray</b>	Soybean Cyst Nematode _____	<b>PI88788</b>
Pod Color _____	<b>Tan</b>	Phytophthora Source _____	<b>Rps1c</b>
Plant Height _____	<b>Med/Tall</b>	Sulfonylurea Tolerance _____	<b>No</b>

# XO 2832E

## Variety Ratings

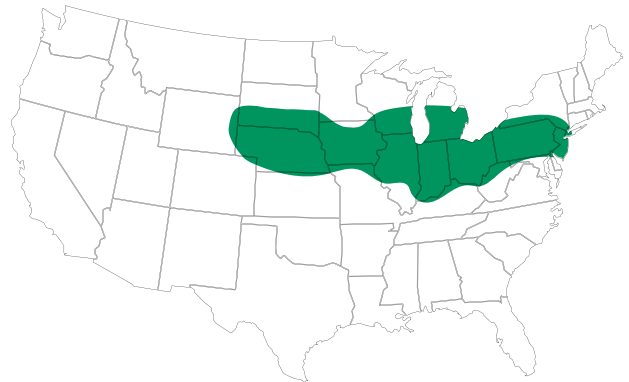
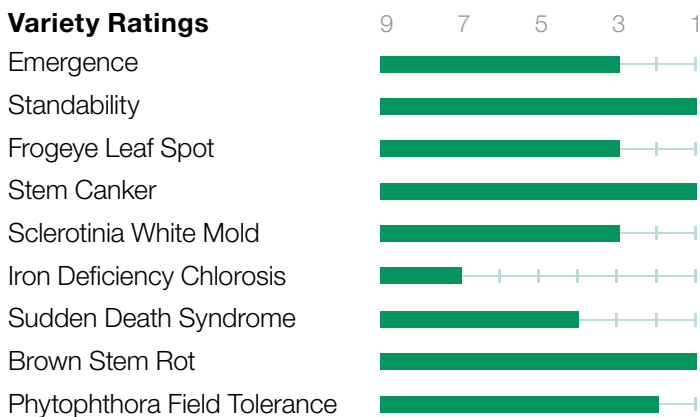


## Plant Characteristics

Relative Maturity _____	<b>2.8</b>	Canopy Type _____	<b>Medium</b>
Pubescence _____	<b>Gray</b>	Soybean Cyst Nematode _____	<b>PI88788</b>
Pod Color _____	<b>Brown</b>	Phytophthora Source _____	<b>Rps1k</b>
Plant Height _____	<b>Med/Avg</b>	Sulfonylurea Tolerance _____	<b>No</b>

# XO 2921E

## Variety Ratings

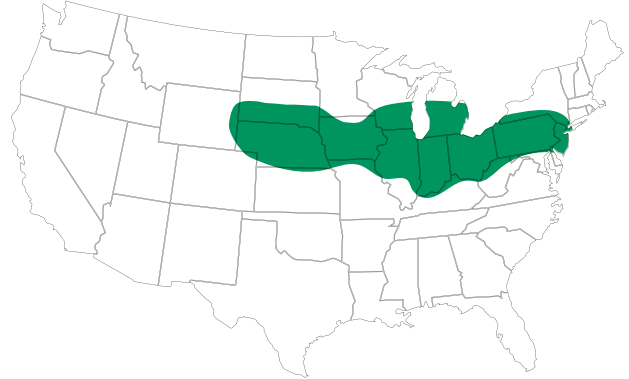
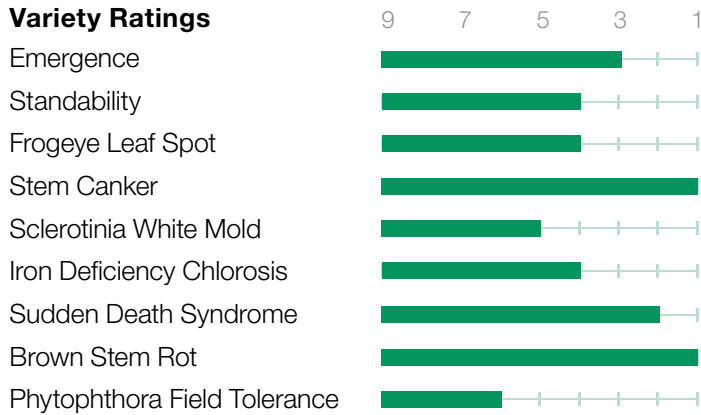


## Plant Characteristics

Relative Maturity _____	<b>2.9</b>	Canopy Type _____	<b>Medium</b>
Pubescence _____	<b>Gray</b>	Soybean Cyst Nematode _____	<b>PI88788</b>
Pod Color _____	<b>Tan</b>	Phytophthora Source _____	<b>NG</b>
Plant Height _____	<b>Med/Tall</b>	Sulfonylurea Tolerance _____	<b>No</b>

# XO 2963E

## Variety Ratings

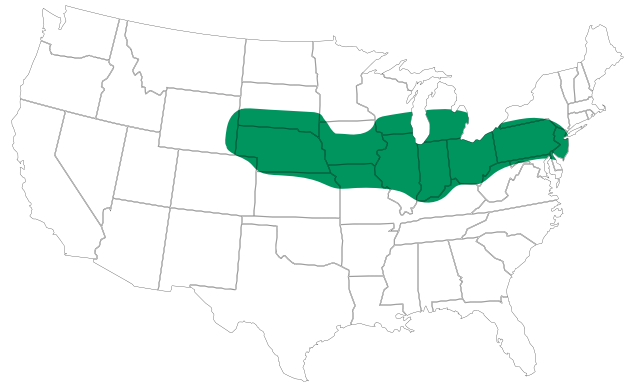
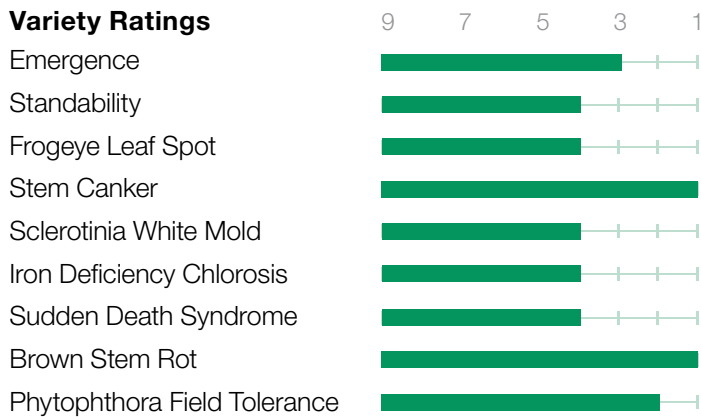


## Plant Characteristics

Relative Maturity _____	<b>2.9</b>	Canopy Type _____	<b>Med-Bush</b>
Pubescence _____	<b>Gray</b>	Soybean Cyst Nematode _____	<b>Peking</b>
Pod Color _____	<b>Tan</b>	Phytophthora Source _____	<b>Rps1k</b>
Plant Height _____	<b>Medium</b>	Sulfonylurea Tolerance _____	<b>No</b>

# XO 3014E NEW

## Variety Ratings

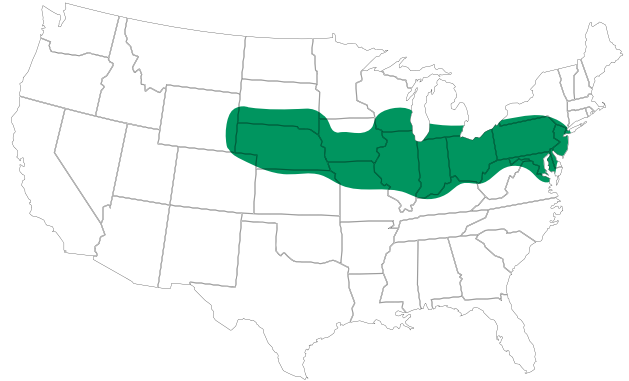
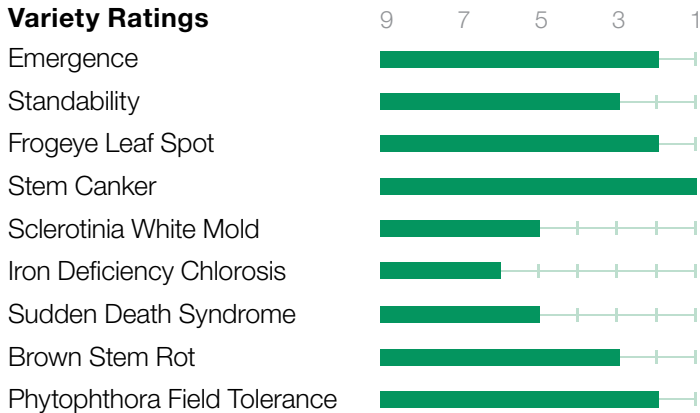


## Plant Characteristics

Relative Maturity _____	<b>3.0</b>	Canopy Type _____	<b>Semi-Bush</b>
Pubescence _____	<b>Gray</b>	Soybean Cyst Nematode _____	<b>PI88788</b>
Pod Color _____	<b>Brown</b>	Phytophthora Source _____	<b>No</b>
Plant Height _____	<b>Med/Tall</b>	Sulfonylurea Tolerance _____	<b>Yes</b>

# XO 3131E

## Variety Ratings



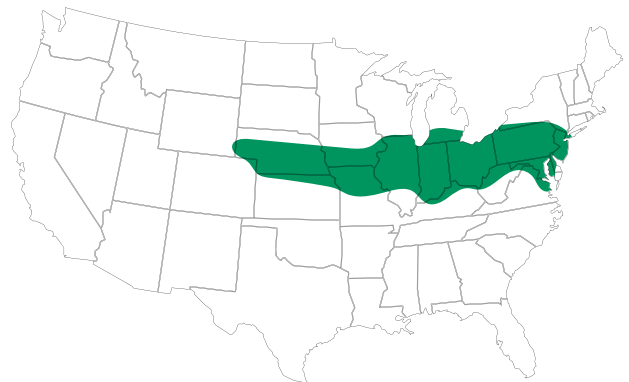
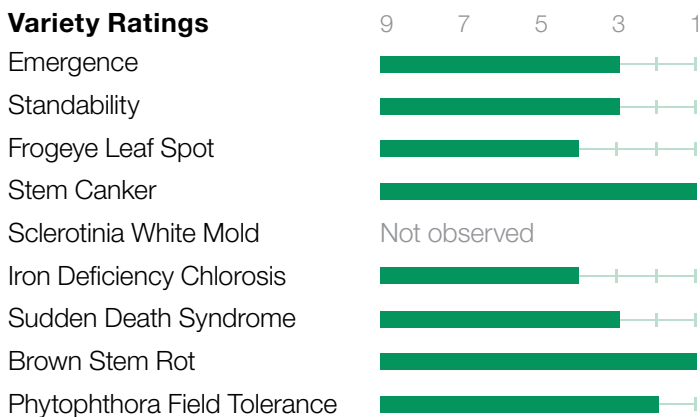
## Plant Characteristics

Relative Maturity _____	<b>3.1</b>	Canopy Type _____	<b>Med-Bush</b>
Pubescence _____	<b>Gray</b>	Soybean Cyst Nematode _____	<b>PI88788</b>
Pod Color _____	<b>Brown</b>	Phytophthora Source _____	<b>Rps1c</b>
Plant Height _____	<b>Med/Tall</b>	Sulfonyleurea Tolerance _____	<b>No</b>

# XO 3224E

**NEW**

## Variety Ratings



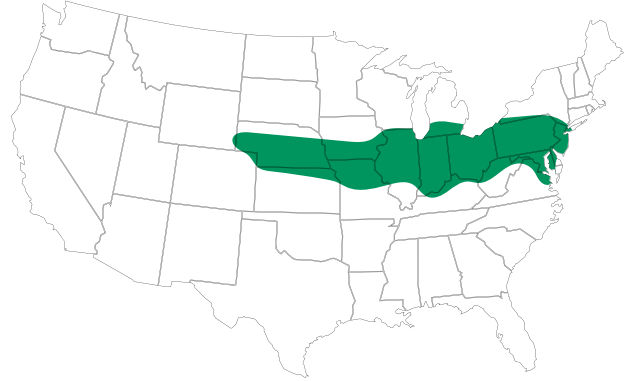
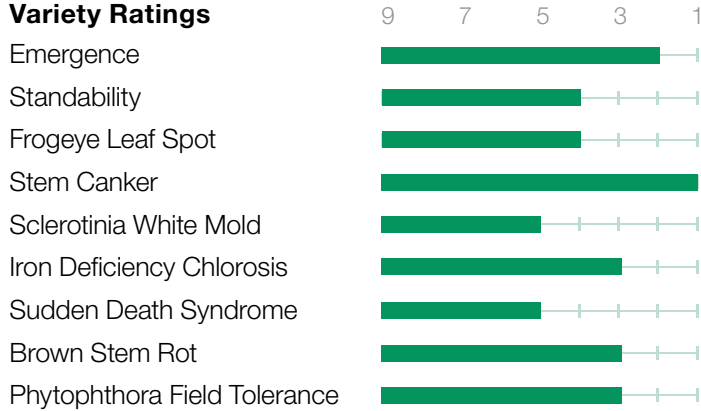
## Plant Characteristics

Relative Maturity _____	<b>3.2</b>	Canopy Type _____	<b>Bushy</b>
Pubescence _____	<b>Gray</b>	Soybean Cyst Nematode _____	<b>Peking</b>
Pod Color _____	<b>Tan</b>	Phytophthora Source _____	<b>No</b>
Plant Height _____	<b>Med/Avg</b>	Sulfonyleurea Tolerance _____	<b>No</b>



# XO 3341E

## Variety Ratings

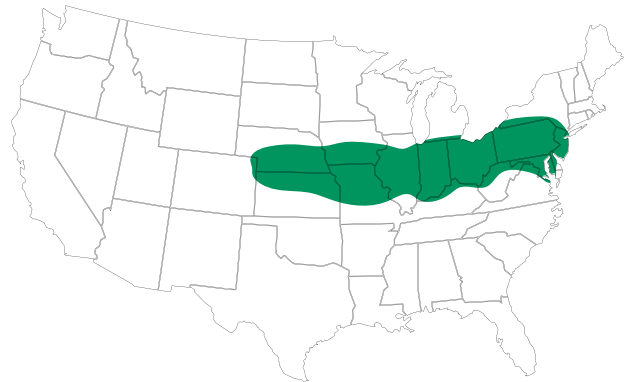
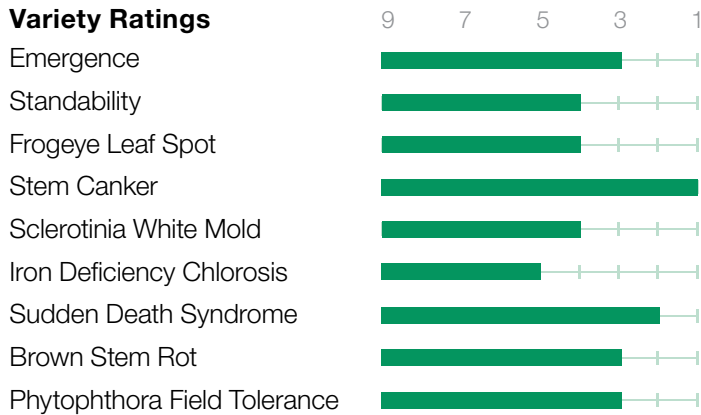


## Plant Characteristics

Relative Maturity _____	<b>3.3</b>	Canopy Type _____	<b>Med-Bush</b>
Pubescence _____	<b>Lt Tawny</b>	Soybean Cyst Nematode _____	<b>PI88788</b>
Pod Color _____	<b>Brown</b>	Phytophthora Source _____	<b>NG</b>
Plant Height _____	<b>Med/Tall</b>	Sulfonylurea Tolerance _____	<b>No</b>

# XO 3483E

## Variety Ratings

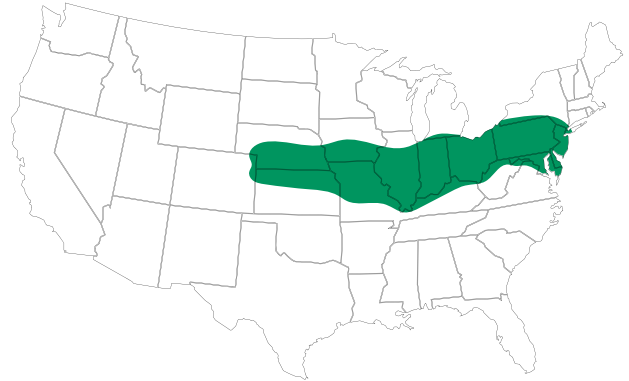
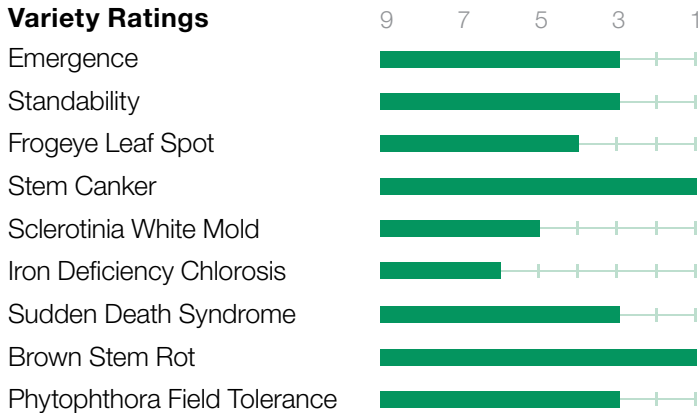


## Plant Characteristics

Relative Maturity _____	<b>3.4</b>	Canopy Type _____	<b>Med-Bush</b>
Pubescence _____	<b>Lt Tawny</b>	Soybean Cyst Nematode _____	<b>PI88788</b>
Pod Color _____	<b>Brown</b>	Phytophthora Source _____	<b>Rps1k</b>
Plant Height _____	<b>Med/Tall</b>	Sulfonylurea Tolerance _____	<b>No</b>

# XO 3651E

## Variety Ratings

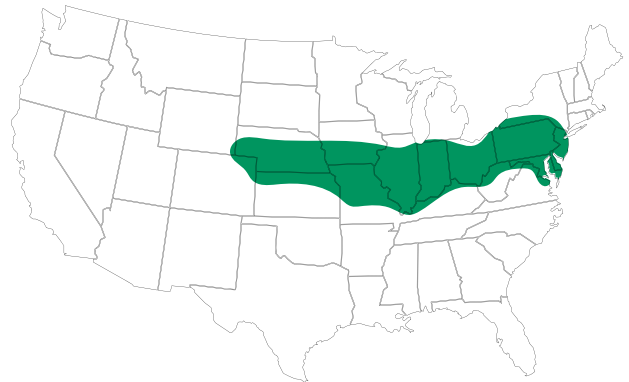
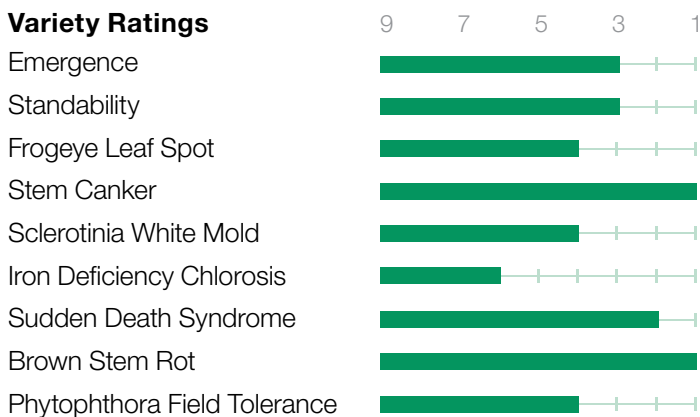


## Plant Characteristics

Relative Maturity _____	<b>3.6</b>	Canopy Type _____	<b>Med-Bush</b>
Pubescence _____	<b>Gray</b>	Soybean Cyst Nematode _____	<b>PI88788</b>
Pod Color _____	<b>Tan</b>	Phytophthora Source _____	<b>Rps1k</b>
Plant Height _____	<b>Med/Tall</b>	Sulfonylurea Tolerance _____	<b>No</b>

# XO 3752E

## Variety Ratings

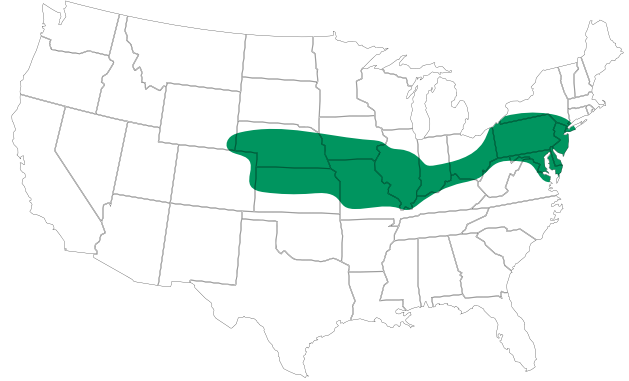
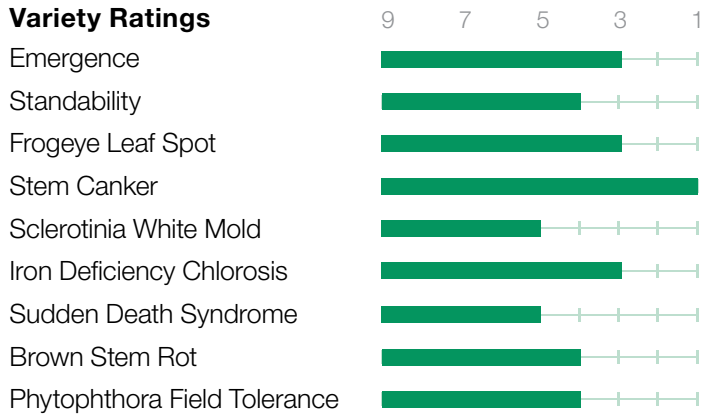


## Plant Characteristics

Relative Maturity _____	<b>3.7</b>	Canopy Type _____	<b>Med-Bush</b>
Pubescence _____	<b>Lt Tawny</b>	Soybean Cyst Nematode _____	<b>PI88788</b>
Pod Color _____	<b>Brown</b>	Phytophthora Source _____	<b>Rps1k</b>
Plant Height _____	<b>Med/Avg</b>	Sulfonylurea Tolerance _____	<b>Yes</b>

# XO 3803E

## Variety Ratings

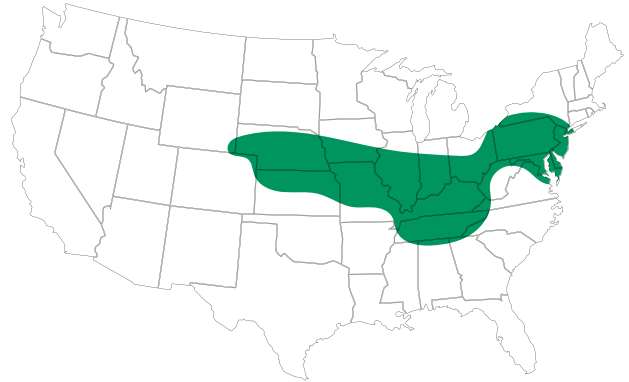
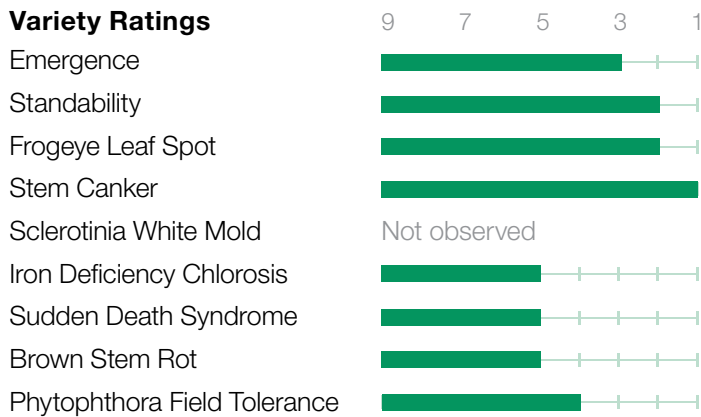


## Plant Characteristics

Relative Maturity _____	<b>3.8</b>	Canopy Type _____	<b>Med-Bush</b>
Pubescence _____	<b>Lt Tawny</b>	Soybean Cyst Nematode _____	<b>PI88788</b>
Pod Color _____	<b>Tan</b>	Phytophthora Source _____	<b>Rps1c</b>
Plant Height _____	<b>Med/Tall</b>	Sulfonylurea Tolerance _____	<b>Yes</b>

# XO 3861E

## Variety Ratings

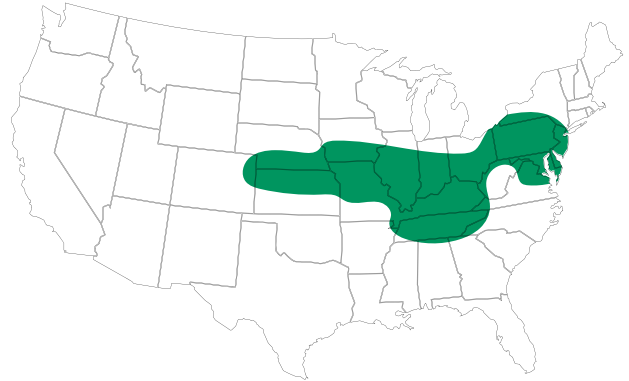
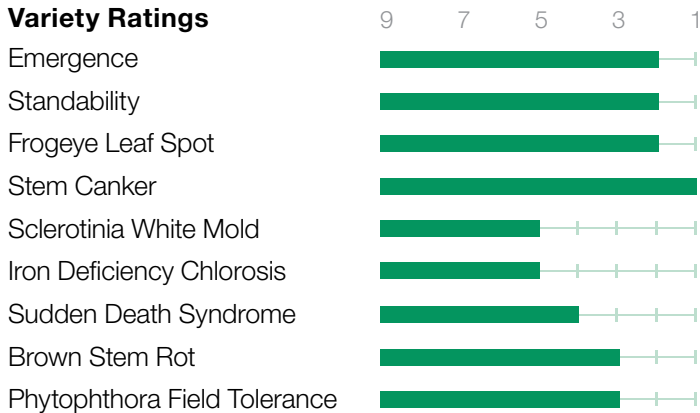


## Plant Characteristics

Relative Maturity _____	<b>3.8</b>	Canopy Type _____	<b>Med-Bush</b>
Pubescence _____	<b>Lt Tawny</b>	Soybean Cyst Nematode _____	<b>PI88788</b>
Pod Color _____	<b>Brown</b>	Phytophthora Source _____	<b>Rps1k</b>
Plant Height _____	<b>Medium</b>	Sulfonylurea Tolerance _____	<b>Yes</b>

# XO 3922E

### Variety Ratings



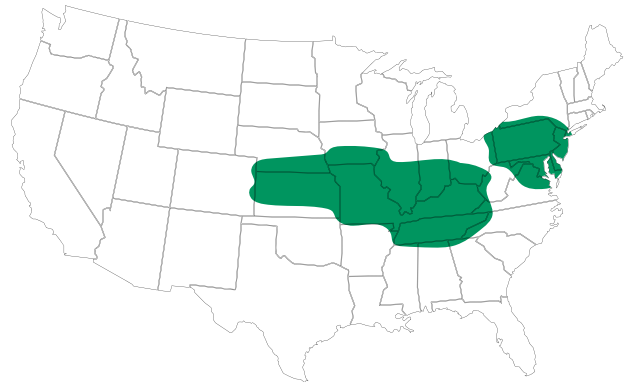
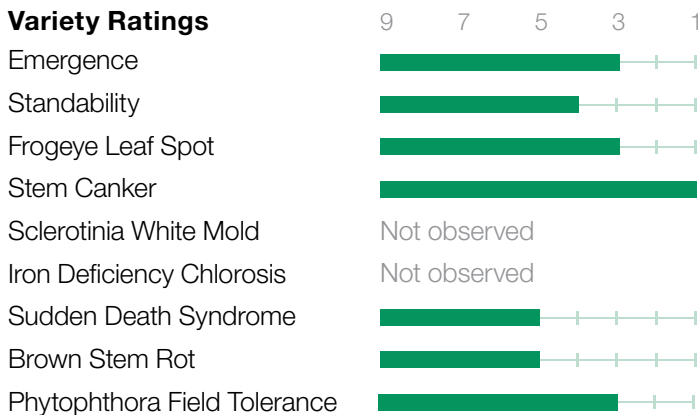
### Plant Characteristics

Relative Maturity _____	<b>3.9</b>	Canopy Type _____	<b>Bushy</b>
Pubescence _____	<b>Lt Tawny</b>	Soybean Cyst Nematode _____	<b>PI88788</b>
Pod Color _____	<b>Tan</b>	Phytophthora Source _____	<b>Rps1k</b>
Plant Height _____	<b>Med/Avg</b>	Sulfonylurea Tolerance _____	<b>No</b>

# XO 4084E

**NEW**

### Variety Ratings



### Plant Characteristics

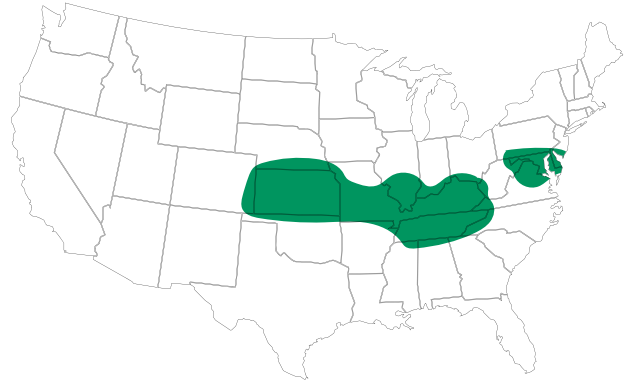
Relative Maturity _____	<b>4.0</b>	Canopy Type _____	<b>Semi-Bush</b>
Pubescence _____	<b>Lt Tawny</b>	Soybean Cyst Nematode _____	<b>PI88788</b>
Pod Color _____	<b>Tan</b>	Phytophthora Source _____	<b>Rps1c</b>
Plant Height _____	<b>Med/Tall</b>	Sulfonylurea Tolerance _____	<b>Yes</b>



# XO 4522E

## Variety Ratings

	9	7	5	3	1
Emergence	██████████				
Standability	██████████				
Frogeye Leaf Spot	██████████				
Stem Canker	██████████				
Sclerotinia White Mold	Not observed				
Iron Deficiency Chlorosis	Not observed				
Sudden Death Syndrome	██████████				
Brown Stem Rot	Not observed				
Phytophthora Field Tolerance	██████████				



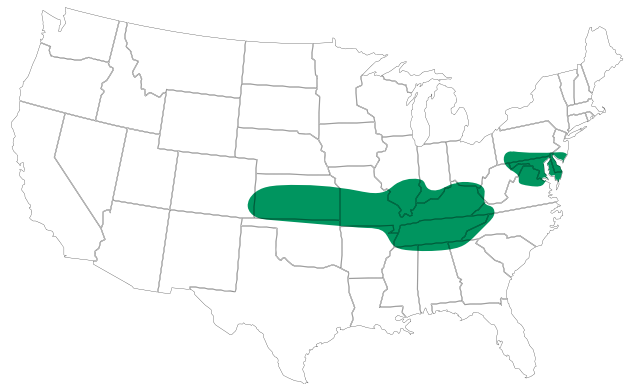
## Plant Characteristics

Relative Maturity _____	<b>4.5</b>	Canopy Type _____	<b>Semi-Bush</b>
Pubescence _____	<b>Gray</b>	Soybean Cyst Nematode _____	<b>PI88788</b>
Pod Color _____	<b>Brown</b>	Phytophthora Source _____	<b>NG</b>
Plant Height _____	<b>Med/Avg</b>	Sulfonyleurea Tolerance _____	<b>No</b>

# XO 4653E

## Variety Ratings

	9	7	5	3	1
Emergence	██████████				
Standability	██████████				
Frogeye Leaf Spot	██████████				
Stem Canker	██████████				
Sclerotinia White Mold	Not observed				
Iron Deficiency Chlorosis	Not observed				
Sudden Death Syndrome	██████████				
Brown Stem Rot	Not observed				
Phytophthora Field Tolerance	██████████				

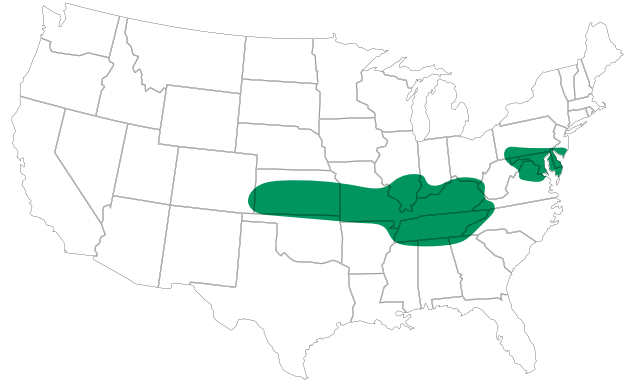
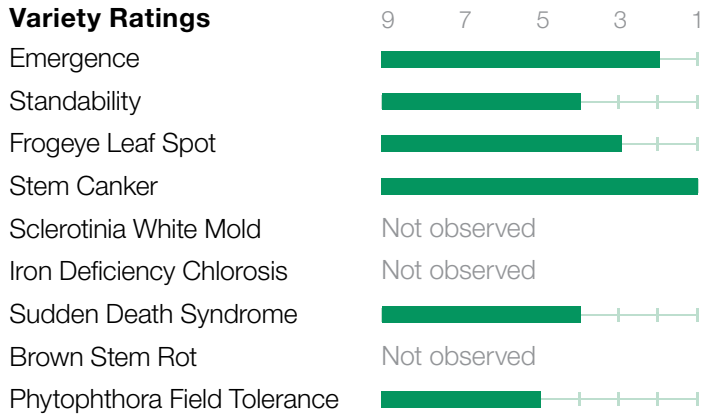


## Plant Characteristics

Relative Maturity _____	<b>4.6</b>	Canopy Type _____	<b>Semi-Bush</b>
Pubescence _____	<b>Tawny</b>	Soybean Cyst Nematode _____	<b>PI88788</b>
Pod Color _____	<b>Brown</b>	Phytophthora Source _____	<b>NG</b>
Plant Height _____	<b>Med/Avg</b>	Sulfonyleurea Tolerance _____	<b>Yes</b>

# XO 4772E

## Variety Ratings



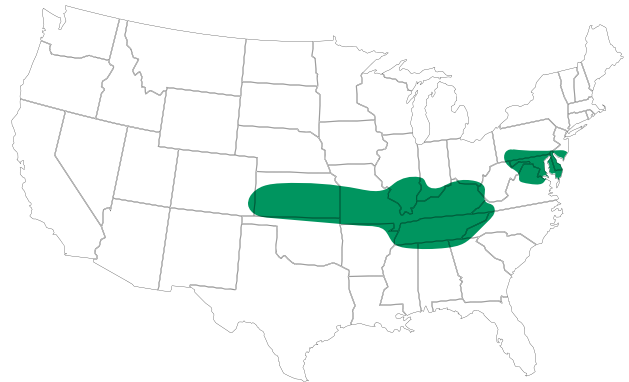
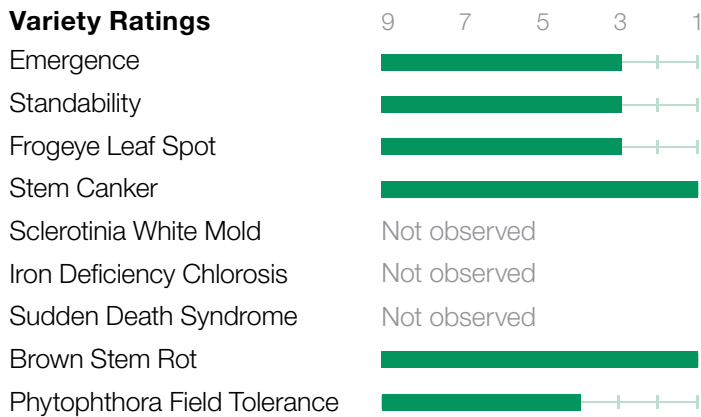
## Plant Characteristics

Relative Maturity _____	<b>4.7</b>	Canopy Type _____	<b>Semi-Bush</b>
Pubescence _____	<b>Gray</b>	Soybean Cyst Nematode _____	<b>PI88788</b>
Pod Color _____	<b>Brown</b>	Phytophthora Source _____	<b>NG</b>
Plant Height _____	<b>Med/Tall</b>	Sulfonylurea Tolerance _____	<b>No</b>

# XO 4894E

**NEW**

## Variety Ratings



## Plant Characteristics

Relative Maturity _____	<b>4.8</b>	Canopy Type _____	<b>Bushy</b>
Pubescence _____	<b>Gray</b>	Soybean Cyst Nematode _____	<b>PI88788</b>
Pod Color _____	<b>Brown</b>	Phytophthora Source _____	<b>RpsH1c</b>
Plant Height _____	<b>Med/Tall</b>	Sulfonylurea Tolerance _____	<b>Yes</b>

# **BASF** **Soybean Acre** **Solutions**







# BASF Soybean Solutions

**BASF is committed to supporting farmers with agronomic solutions to sustainably build your legacy and your farm.**

We provide continuously high-performing soybean innovations and recommendations that are grounded in agronomic principles and tailored to fit the needs of each farm, from seed to bin.

As your soybean specialists, everything we do is to help you achieve a successful season. It begins with Xitavo™ soybean seed. With triple-stacked, herbicide-tolerant and trait technology, it's a strong seed and trait package that is geographically tailored to provide the yield and quality you need to increase ROI. It's part of a portfolio that offers groundbreaking chemistry, powerful innovations and tools, trials you can trust, and BASF team members that are with you every step of the way.



# Enlist E3<sup>®</sup> Soybeans



Enlist E3<sup>®</sup> soybeans offer advanced herbicide-tolerant trait technology with maximum flexibility and convenience, along with unique modes of action for exceptional weed control. Tolerant to Liberty<sup>®</sup> herbicide, Enlist E3 soybeans set a new standard for weed control, resistance management and yield performance in soybeans.

## Features & Benefits

---

- High-yielding, elite genetics for powerful performance
- Multiple herbicide tolerances, including glyphosate, Liberty<sup>®</sup> herbicide, and the new 2,4-D choline salt
- Exceptional weed control
- Versatile variety portfolio to match the right variety to the right field
- Ease of use with maximum application flexibility
- Multiple modes of action for resistance management on grasses and broadleaves

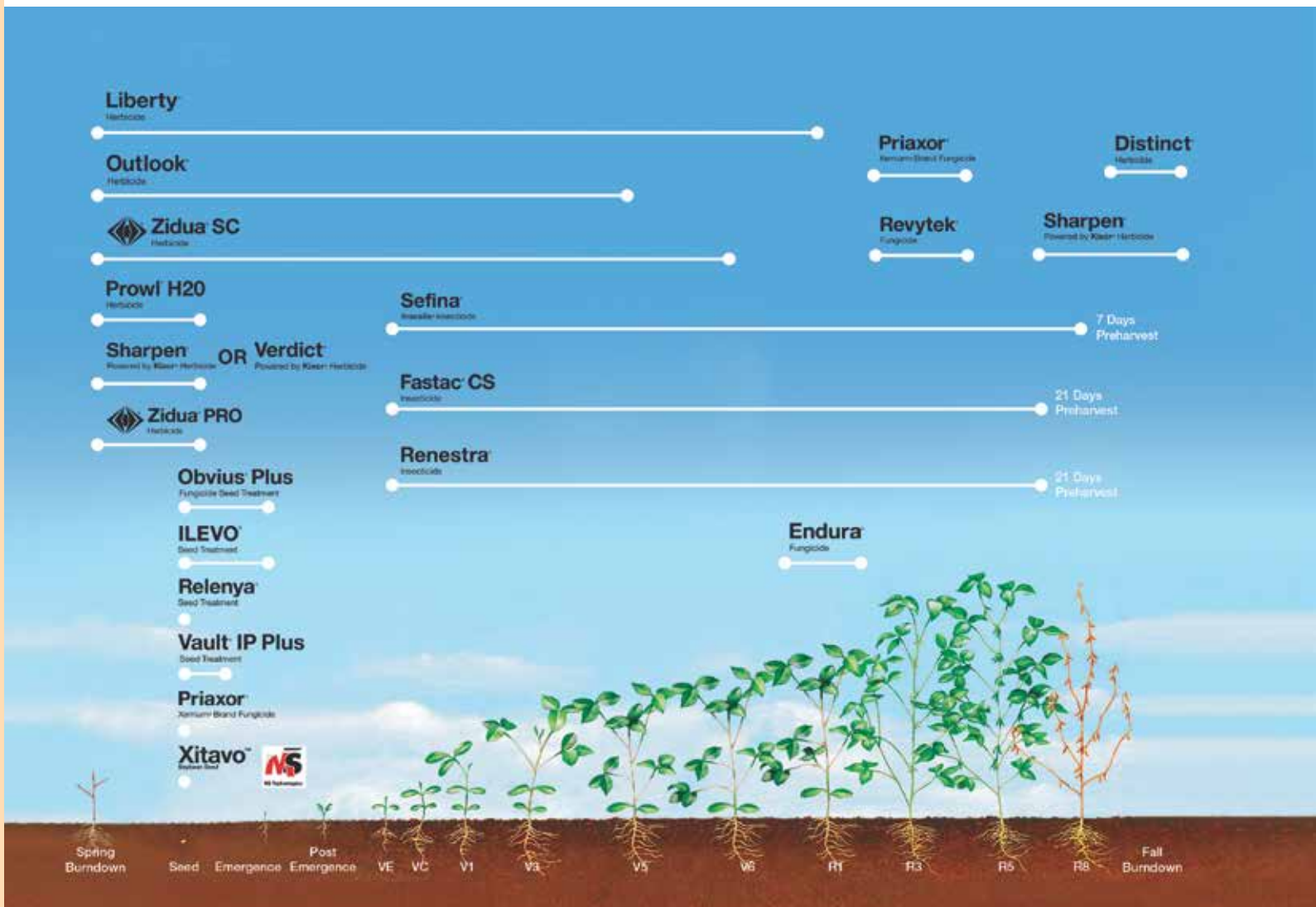
## Program Best-Use Practices

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- Use multiple, effective modes of action to prevent weed resistance
- Target small weeds – less than three inches in height – with timely applications
- Use a pre-emergence residual herbicide like Zidua<sup>®</sup> PRO followed by a post-residual herbicide like Zidua<sup>®</sup> SC herbicide or Outlook<sup>®</sup> herbicide for layered residual control through canopy

# Enlist E3<sup>®</sup> Soybean Seeds

## BASF Soybean Portfolio for Xitavo<sup>™</sup> Soybean Seeds



Find Your Soybean  
Specialist

# Recommended Herbicide Program for Enlist E3<sup>®</sup> Soybean Seeds

## Base

**Recomendation:  
Layered Residuals**

**Heavy In-Season  
Broadleaf Pressure**

**Enhanced  
Burndown**

### Focus

- |   |   |  |
|---|---|--|
| <ul style="list-style-type: none"> <li>■ Pigweed, including Palmer amaranth and waterhemp</li> <li>■ Resistant, small-seeded broadleaves</li> </ul> | <ul style="list-style-type: none"> <li>■ Heavy emerged weed pressure in-season (i.e., if missed a pre, delayed post)</li> </ul> | <ul style="list-style-type: none"> <li>■ Heavy resistant marestail or winter annual pressure</li> <li>■ No-till, conservation tillage acres</li> </ul> |
|---|---|--|

### Pre

**Zidua<sup>®</sup> PRO** herbicide\*  
4.5-6.0 fl oz/A

**Zidua PRO** herbicide  
4.5-6.0 fl oz/A

**Zidua PRO** herbicide  
6.0 fl oz/A  
+  
**Enlist One<sup>®</sup>** herbicide  
32 fl oz/A

### Post

**Liberty<sup>®</sup>** herbicide  
32 fl oz/A  
+  
**Outlook<sup>®</sup>** herbicide  
12 fl oz/A  
**OR**  
**Zidua<sup>®</sup> SC** herbicide  
2.5 fl oz/A

**Liberty** herbicide  
32 fl oz/A  
+  
**Enlist One** herbicide  
32 fl oz/A  
+  
**Zidua SC** herbicide  
2.5 fl oz/A

**Liberty** herbicide  
32 fl oz/A  
+  
**Outlook** herbicide  
12 fl oz/A  
**OR**  
**Zidua SC** herbicide  
2.5 fl oz/A

\* Substitute Zidua SC Herbicide at 2.5-3.25 fl oz/A + metribuzin in geographies with soil restrictions or rotational restrictions to Zidua PRO Herbicide.

# Seed Treatment

## Get Early- Season Soybean Protection

At BASF, we give seed treatment everything we've got, so it gives you every possible advantage. A critical piece of soybean pest management, the right seed treatment can help your soybeans with protection from key early-season insects, nematodes and diseases. BASF seed treatments protect and prepare your seeds for strong early-season growth, enhance their emergence and lead to a healthier, more vigorous crop. Leading the way to see how high a seed can grow, we empower your seed, your farm and your business to reach their full potential.

Seeds that have been treated with pesticides need to be handled with special care to protect wildlife, pollinators, human health and the environment. Leftover treated seed should be disposed of in accordance with local and state guidelines.



## ILEVO®

Seed Treatment

ILEVO® seed treatment is the only proven winner against both SCN and sudden death syndrome (SDS).

Nematodes, including SCN, are unseen pests that severely damage soybean fields, causing up to 30 percent yield loss without any above-ground symptoms. SDS attacks young soybean plants below-ground and above-ground later in the season. For both SDS and SCN, there are no corrective measures once the seed is planted.

In 10 years of testing with 381 comparisons, ILEVO seed treatment provided an average yield increase of 4.6 bu/A versus a fungicide/insecticide base with a positive yield response 84 percent of the time. The yield advantage can vary depending on nematode pressure and SDS incidence or severity, ranging from 2 to as much as 10 bu/A.



## Poncho® Votivo®

Seed Treatment

Poncho® Votivo® seed treatment protects young plants from some of the most damaging insect and nematode pests during critical early development stages. Poncho® seed treatment provides broad-spectrum insect protection against early-season soybean aphids, overwintering bean leaf beetles, seedcorn maggots and wireworms. The bacteria in Votivo® seed treatment creates a living barrier around the seed, which lives and grows with the roots, protecting against multiple generations of nematodes.

In 561 soybean field trials conducted between 2010 and 2016 across a wide geography, Poncho Votivo seed treatment resulted in an average yield advantage of 1.3 bu/A when compared with Gaucho® seed treatment. From seed germination to plant establishment, Poncho Votivo seed treatment helps secure a foundation for better yields.

# Seed Treatment

## Vault® IP Plus

Seed Treatment

Biologicals are a natural partner for you to protect and nurture your crops. With Vault® IP Plus seed treatment, soybean growers have access to two complementary biofungicides together with a proven nitrogen-fixing rhizobial inoculant.

- Two unique EPA-registered biofungicides that create a living and protective biofilm
- Best-in-class nitrogen fixation from at least 10 billion living rhizobial cells per mL to help maximize yields
- The lowest application rate in its class, leaving more room on the seed

With an average yield increase of more than 2 bu/A over fields that have been treated with a base fungicide alone, you can inoculate and protect with Vault IP Plus seed treatment for higher yield potential.

## Obvius® Plus

Fungicide Seed Treatment

Obvius® Plus fungicide seed treatment brings a unique four-way protection package to deliver disease control throughout critical early plant development stages, helping soybean crops get successfully established earlier in the season.

The four active ingredients in Obvius Plus fungicide seed treatment work together to provide powerful disease control and early-season stress tolerance, ensuring your crop has the protection it needs during early planting conditions and beyond. The package contains:

- Xemium® fungicide for long-lasting, systemic disease protection
- F500® fungicide for early-season stress tolerance and disease control
- Metalaxyl for protection from critical diseases in cool, damp soils
- Thiophanate-methyl for defense against seed decay

## Relenya®

Seed Treatment

Relenya® seed treatment delivers cutting-edge technology to boost protection, performance and yield potentials to your crop. Powered by Revysol® fungicide, Relenya protects seed and roots early in the developmental growth stages from seedling diseases, such as *Fusarium* and *Rhizoctonia* to increase yield potential.

- Cutting-edge protection built on new Revysol technology
- Boosts disease protection under *Fusarium* and *Rhizoctonia* pressure
- Partners with a base package to boost yield potential under varied levels of disease pressure



# Crop Protection

## Staying Ahead of Weeds, Insects and Diseases

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Managing weeds with known resistance to certain technologies is one of the most difficult challenges you face. Soybean performance relies upon a well-rounded protection plan.

BASF soybean specialists can help make sure you get the most out of every acre, from seed to bin. No matter what the season, you can tap into field-tested crop protection solutions, agronomic insight and customized recommendations to deal with your toughest challenges, so your soybean fields can reach their full potential.



# Herbicides



## Pre-Emergence Herbicide

For a faster and complete burndown with long-lasting, broad-spectrum residual control, send in Zidua<sup>®</sup> PRO herbicide. A convenient premixed formulation, Zidua PRO herbicide has no planting restrictions on most soils.

The three sites of action in Zidua PRO herbicide work in concert to provide overlapping weed protection. Delivering up to three- to five-times faster burndown than its competitors,\* Zidua PRO herbicide provides long-lasting residual control for some of the toughest weeds – including Palmer amaranth and waterhemp.

With no soybean planting interval in most soils, you can even plant your beans and spray Zidua PRO herbicide the same day.



## Pre- and Post-Emergence Herbicide

Liberty<sup>®</sup> herbicide provides excellent weed control for soybeans. With a unique mode of action, it allows you to control weeds before they jeopardize your yield.

### Liberty herbicide delivers:

- Broad-spectrum control of broadleaf weeds and grasses
- Excellent management of key weeds like Palmer amaranth, waterhemp, kochia, ragweed and marehail, including weeds that have become resistant to other herbicides
- Application flexibility and fewer restrictions for more convenience
- Unique patented formulation that delivers more performance and more consistency

\*Internal BASF burndown trials

## Outlook®

Herbicide

### Pre- and Post-Emergence Herbicide

Small weeds can pose a big threat to your crop. Outlook® herbicide will help protect your crop with powerful, consistent control of grasses and small-seeded broadleaf weeds such as waterhemp, pigweed, and nightshade. With excellent crop safety and application flexibility, Outlook herbicide is a preferred residual herbicide that delivers consistent results for farmer looking for an herbicide that performs all season long.

#### Benefits of Outlook herbicide for soybean crops include:

- Broad-spectrum residual weed control of annual grasses and small-seed broadleaf weeds
- Flexible use for operational efficiency
- Wide application window – pre-plant, pre-emergence and/or post-emergence
- Provides increased efficiency with a low use rate
- Consistent performance
- Reliable activation with as little as ¼ inch of rainfall
- Readily washes off crop residue to where weeds germinate

## Zidua® SC

Herbicide

### Pre- and Post-Emergence Herbicide

Zidua® SC herbicide provides extended residual control of grasses and small-seeded broadleaf weeds. As the only solo product of its kind in a low use-rate liquid formulation, Zidua SC herbicide's residual control lasts up to two weeks longer than many competitive products.

#### Benefits of Zidua SC herbicide for soybean crops include:

- Contains a shoot growth inhibitor that controls susceptible germinating seedlings before or soon after they emerge
- Excellent residual control of glyphosate- and PPO-resistant Palmer amaranth and waterhemp – up to 10 percent better and up to two weeks longer\* than other pre-emergence herbicides
- Pre- and post-emergent flexibility for use on soybeans, corn, wheat and other labeled crops

\*Based on 10 trials in IL, IN, DE, GA, KS, SC, NE and TN comparing Zidua herbicide to Dual II Magnum. Data from coarse, medium and fine soil side-by-side locations. Zidua herbicide applied at 2 oz/A. Dual II Magnum applied at 1-1.3 pts/A.

# Insecticides



## Sefina®

Inscalis® Insecticide

Sefina® insecticide is a unique mode-of-action class that is strong on aphids yet gentle on pollinators. Stop the damaging aphids with no restrictions.

### Benefits of Sefina insecticide:

- Gentle on bees with no pollinator restrictions
- Strong on aphids, even those resistant to other modes of action
- Not a Restricted Use Pesticide

## Renestra™

Insecticide

BASF's new dual mode-of-action insecticide, Renestra™ insecticide, offers broad-spectrum control of piercing, sucking and chewing pests with long-lasting residual control.

### Benefits of Renestra insecticide:

- Dual mode of action
- Soybean aphid control powered by the unique mode-of-action class for Sefina insecticide
- Faster knockdown
- Excellent fixability with fungicides

## Fastac® CS

Insecticide

Fastac® CS insecticide offers excellent knockdown and residual control on numerous worms, beetles and stink bugs with an enhanced handling experience.

### Benefits of Fastac CS insecticide:

- Only pyrethroid labeled "caution"
- Formulated for enhanced user experience
- Proven track record of chewing-insect control on diverse mix of crops

# Fungicides

## Priaxor®

Xemium® Brand Fungicide

Every season has its challenges – periods of hot and dry, cool and wet, or even hail and wind. BASF Plant Health products like Priaxor® Xemium® fungicide help ensure your crops are equipped to withstand the elements so they can focus on growing more efficiently. Every other fungicide stops at disease control, but BASF Plant Health products help minimize the stress caused by the most uncontrollable factors in your operation.

Priaxor fungicide is designed to provide the ultimate in trusted and proven disease protection and Plant Health benefits for higher potential yields.

### Benefits of Priaxor fungicide:

- Delivers a consistent positive response to help with a higher ROI
- Increases stress tolerance and photosynthesis to help produce higher yields
- Protects your investment with strong disease control and prevention

## Revytek®

Fungicide

Revytek® fungicide is the ultimate fungicide for growers who want to be confident they're getting the best performance to move their operation forward. By providing unmatched disease protection and BASF Plant Health benefits to help keep every acre of your soybeans performing at their peak, it's a true game-changer.

### Benefits of Revytek fungicide:

- A five- to six-bushel yield increase 94 percent of the time over the untreated check\*
- Ability to visibly see the Plant Health benefits and control the diseases that matter most like frogeye leaf spot, Septoria brown spot, target spot and Asian soybean rust
- Strong preventive and curative disease control and BASF Plant Health benefits for unmatched protection for your soybeans

\*Summary of 233 2019-2020 on-farm trials. Revytek fungicide applied at 8 fl oz/A to R2-R4 soybeans.

# **BASF Whole Acre Support**





# The Biggest Job on Earth

**As a farmer, you know that having a successful season takes teamwork – a team BASF is proud to be part of. After all, we aren't just reps. We're your neighbors, your Little League coaches and regulars at your local diner. And whenever you need us, we're just down the road and ready to help you meet your goals. We go beyond products, with partnership programs, performance solutions and powerful innovations – all designed to help you do the biggest job on Earth. Because your job is our job. Your town is our town. And your success is our success.**





# BASF Whole Acre Support

## Operation Weed Eradication

Resistant pigweed is persistent, resilient, aggressive and one of the most difficult challenges farmers face when it comes to managing weeds. A BASF-led, cross-industry coalition, Operation Weed Eradication is a new approach to pigweed control that helps you navigate your journey to Palmer amaranth and waterhemp eradication on-farm. The last weed standing is the most important, most capable and most genetically resistant weed on the farm. An eradication mindset means going the extra mile to take out the last weed standing before it produces seed. To learn more, scan the QR Code.



**Taking a balanced approach will help us move in the right direction toward a weed-free future, including:**

- Cultural and mechanical practices
- Chemical control
- Eradication diligence

## Plant Health

BASF Plant Health means more because it does more. Competitors tout plant health benefits, but only BASF Plant Health products are labeled and proven to protect against disease control and environmental stress. BASF Plant Health is about strengthening the overall health of your soybeans. Without the distraction of disease and environmental stress, your crops can focus fully on producing yield.

**How BASF Plant Health works:**

- When crops experience stress (from environment or disease), ethylene is produced
- BASF Plant Health products reduce ethylene levels in the plant and keep stomata functioning normally, essentially allowing the plant to “breathe” and “sweat”
- This results in a cooler crop canopy and healthier fields
- Bottom line: You see the BASF difference with higher yields and better return



**Plant Health Tool**



**RevX Field**

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## Grow Smart™ Live

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We believe your field is the future. So we created an easy-to-use tool to help you invest in it: the Grow Smart Advantage tool. This customizable platform provides an innovative way to find greater return on investment at harvest in terms of dollars. Visit [growsmartlive.com](http://growsmartlive.com) or scan the QR Code to learn more.



### It's designed to:

- Allow you to input custom information about a field (crop types, acres, crop protection products, etc.)
- Allow you to adjust how you value different elements of crop protection
- Show the estimated results of BASF products versus competitors' products in performance and terms of dollars versus rebates
- Help you understand the hidden costs and realities of competitor rebate programs
- Provide transparency into our sources (all data is derived from independent third parties)

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## Showcase Plots

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There's no better way to see the latest research, technologies and products in action than by seeing the results in-field. And there's no better way to do that than the BASF Showcase Plots. From Texas to North Carolina, North Dakota, the Eastern Corn Belt and the Western Corn Belt, we're seeing exciting results, and we want to share them with you. Join us for a virtual tour by scanning the QR Code.



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## Liberty® Herbicide Weed Control Guarantee

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Liberty herbicide is proven to effectively control even the toughest weeds. But we need to be steadfast as an industry to eliminate the last weed in the field, which takes a balanced approach starting with following label instructions and best management practices. With the Liberty Herbicide Weed Control Guarantee, when you apply Liberty herbicide according to label instructions and follow the S.T.O.P. Application Guidelines, we guarantee commercially acceptable weed control.\* To learn more, scan the QR Code.



### Liberty Herbicide S.T.O.P. Application Guidelines:

- **S:** Start with a clean field prior to planting
- **T:** Target weeds smaller than three inches at the time of application
- **O:** Optimize coverage
- **P:** Pair with residuals

\*To see full program terms and conditions, scan the QR Code.

Product Use Statement: Enlist E3<sup>®</sup> soybeans contain the Enlist E3 trait that provides crop safety for use of labeled over-the-top applications of glyphosate, glufosinate and 2,4-D herbicides featuring Colex-D<sup>®</sup> 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 E3 soybeans.

Warning: Enlist E3 soybeans are tolerant of over-the-top applications of glyphosate, glufosinate and 2,4-D. Accidental application of incompatible herbicides to this variety could result in total crop loss. When using 2,4-D herbicides, grower agrees to only use 2,4-D products that contain Colex-D technology authorized for use in conjunction with Enlist E3 soybeans. Always read and follow herbicide label directions prior to use.

YOU MUST SIGN A TECHNOLOGY AGREEMENT, READ THE PRODUCT USE GUIDE PRIOR TO PLANTING AND FOLLOW HERBICIDE RESISTANCE MANAGEMENT (HRM) REQUIREMENTS.

The transgenic event in the Enlist E3 soybean is protected under Corteva Agriscience and MS Technologies, L.L.C. Patent Rights which can be found at: [www.corteva.us/Resources/trait-stewardship.html](http://www.corteva.us/Resources/trait-stewardship.html).

The transgenic event in the Enlist E3 soybean event in Enlist E3 soybeans is jointly developed and owned by Corteva Agriscience and MS Technologies, L.L.C. Enlist, Enlist E3, the Enlist E3 logo and Colex-D are registered trademarks of Corteva Agriscience.

XITAVO IS A TRADEMARK OF MS TECHNOLOGIES, L.L.C., West Point, IA.

#### SEED USE RESTRICTION AGREEMENT

This Seed Use Restriction Agreement (the "Agreement") applies to all users ("User(s)") of the seed ("Seed") contained in this package. If you purchase the Seed, you agree that you and any person or entity, including employees, representatives, contractors and agents thereof, who plant, grow, cultivate or otherwise use the Seed, will abide by these use restrictions. If you open or cause any person or entity to open a package of Seed, you agree that you accept the terms of this Agreement, and you, your employees, representatives, contractors and agents will abide by these use restrictions.

#### SEED USE AGREEMENT

MS Technologies, L.L.C. ("MS TECH") and its suppliers are engaged in the business of developing and supplying for sale various varieties and/or hybrids of Seed. MS TECH and its suppliers have a substantial investment and expended substantial effort in the development and production of this seed, and in the use of subsequent production of Seed. MS TECH and its suppliers have existing contractual relationships.

User agrees and acknowledges that any use of the Seed which is forbidden by this Agreement will constitute a misappropriation of the property of MS TECH and its suppliers and will therefore result in a breach of this Agreement. User agrees that MS TECH and/or its suppliers may bring an action to recover damages as a result of the breach of this Agreement, along with reasonable attorney fees and costs associated with any action commenced in regard thereto. User further agrees that the exclusive venue for any dispute arising under this Agreement or in connection to any breach thereof shall be in the federal or state courts for Dallas County, Iowa, and hereby irrevocably consents to the personal jurisdiction of such courts. This Agreement shall be governed under the laws of the State of Iowa.

User agrees and acknowledges that any use of the Seed that is forbidden by this Agreement will damage MS TECH and its suppliers' legitimate expectation of future sales of seed, and any use of Seed in violation of this Agreement will constitute an attempt to intentionally injure or destroy MS TECH and its suppliers' prospective business expectations in future sales of seed.

User agrees and acknowledges that any use of Seed from MS TECH in violation of this Agreement will cause substantial damage to MS TECH and/or its suppliers, and that if subsequent production of the Seed is used to create a seed variety or seed product, substantial damage to MS TECH and/or its suppliers for all seed varieties or seed products thereby created will be caused. This Agreement shall not limit any other rights, legal or equitable, that MS TECH and its suppliers have but shall be accumulative.

User agrees to only use agricultural herbicide that are expressly labeled for use in conjunction with the Seed and have received government approvals as specified in a product use guide.

#### NOTICE OF REQUIRED ARBITRATION

Under the seed laws of several states' arbitration, mediation or conciliation is required as a prerequisite to maintaining a legal action based upon the failure of seed to produce as represented. The consumer shall file a complaint along with the required filing fee (where applicable) with the Commissioner/Director/Secretary of Agriculture, Seed Commissioner, or Chief Agricultural Officer within such time as to permit inspection of the crops, plants or trees by the designated agency and the seller from whom the seed was purchased. A copy of the complaint shall be sent to the seller by certified or registered mail or as otherwise provided by state statute.

#### OTHER TERMS & CONDITIONS

For sale in the U.S. only. MS TECH assumes no responsibility for MS TECH's suppliers', distributors' or dealers' verbal and/or written claims, promises, warranties or actions which are contrary to MS TECH's normal operating policies. USER must notify MS TECH within fourteen (14) days of becoming aware of alleged issues regarding the quality or performance of the Seed.

#### LIMITATION OF WARRANTIES & DAMAGES

MS TECH warrants, to the extent of the purchase price and to the extent that the packaging and label have not been compromised, that the Seed is as described on the package and on the tag attached thereto within recognized tolerances. MS TECH gives no other WARRANTY, expressed or implied, of MERCHANTABILITY or FITNESS of the Seed for any particular purpose, nor any warranty against loss due to any cause, including environmental conditions, soil conditions, chemicals or farming practices, or the response of the Seed to any such conditions. MS TECH shall not be liable for incidental or consequential damages, including loss of profits. MS TECH'S LIABILITY for damages for any cause, including breach of contract, breach of warranty, and negligence, with respect to the sale of seed, is LIMITED to the purchase price of the Seed. THIS REMEDY IS EXCLUSIVE. BY ACCEPTANCE OF THIS SEED OR OPENING THIS PACKAGE, USER ACCEPTS THE TERMS HEREIN. IF USER DOES NOT AGREE WITH THESE TERMS AND CONDITIONS, USER MUST RETURN THE ORIGINAL UNOPENED SEED PACKAGE TO MS TECH WITHIN TWENTY DAYS OF RECEIPT AND USER'S SOLE REMEDY SHALL BE FOR REFUND OF THE USER'S ORIGINAL PURCHASE PRICE. MS TECH may modify and amend the terms and conditions of this Agreement without notice and in its sole discretion.

MS TECH has utilized standard industry isolation and purity procedures in the production of seed products. Because of contamination factors beyond MS TECH's control, MS TECH cannot warrant or represent that MS TECH seed products are free of other transgenic corn traits or transgenic soybean traits. Words and phrases herein shall be construed as in the singular or plural number, according to the context.

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# Xitavo™

Soybean Seed

Distributed by BASF

XITAVO SOYBEAN SEED DISTRIBUTED BY BASF CORPORATION.

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Research Triangle Park, North Carolina 27709

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