



2023 PRODUCT GUIDE

Fall Seeding 2022 - Spring Planting 2023 Edition

RESEARCHED, SELECTED & PRODUCED
IN THE USA





Our MISSION:

To provide the best possible seed products and services for our customers.

Our VISION:

Serve. Innovate. Grow.

Welcome to the 2023 Phillips Seed Farms Product Guide. In this edition, we are celebrating our “Seed Family”, which includes all of our employees, dealers, customers, and contract growers. We are blessed to serve this family. In the middle of this guide, you’ll see a few of those family “members” pictured. It’s fun to share those great memories with you, too. Enjoy!

As you are flipping through this guide, you’ll quickly note that we are a full-service seed solutions company. Please check out our products for 2022 (fall planting) and 2023 (spring planting). We are always ready to lend a hand in selecting the best seed solutions available for the whole farm. It is indeed our mission!

We are grateful for your business, and very much appreciate the many relationships we’ve grown with you over the years. As always, we continue to look forward to serving you. Please see your PSF rep, and let’s plan for our best harvest yet!



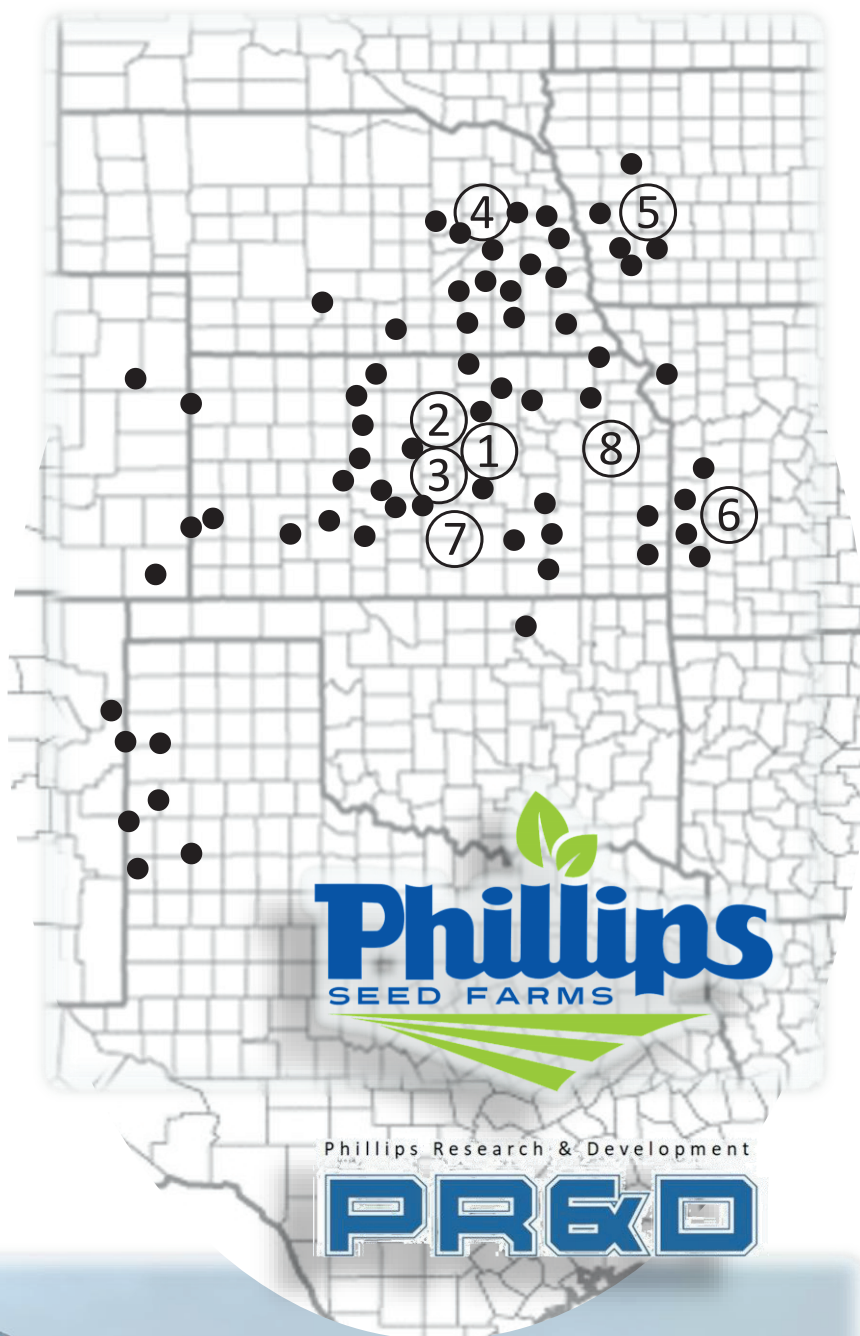
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- ② **Tescott KS** - Processing Facility & Sales Office
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(785) 283-4734
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- ③ **Assaria KS** - Processing Facility & Sales Office
205 E Main, Assaria KS 67416
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(800) 255-1021
- ④ **NE & E Cent. NE** - Sales Office
- ⑤ **West Central IA** - Sales Office
- ⑥ **Western MO** - Sales Office
- ⑦ **South Central KS** - Sales Office
- ⑧ **Eastern KS** - Sales Office

- PR&D Testing Site



Phillips Seed Farms Corn Hybrid Lineup & Trait Information

PSF Trait Code	Phillips Seed Farms Corn Hybrids			TRAIT INFORMATION		INSECTS CONTROLLED OR SUPPRESSED		HERBICIDE TOLERANCE		REFUGE REQUIREMENTS	
	Up to 108 RM	109 - 112 RM	113 RM +	Trait Logos	PSF Code - Full Trait Name	ABOVE Ground	BELOW Ground	RR or GT	LL	CORN Area	Cotton Area
VPR	PS0134 VPR PS0770 VPR PSF082 VPR	PSF098 VPR PS1063 VPR PS1199 VPR PSF128 VPR	PS1366 VPR PSF138 VPR PSF148 VPR PS1652 VPR		VPR - VT Double PRO® RIB Complete®	CEW, ECB, FAW, SB, SWCB	No GMO Trait Resistance	Y	N	5% RIB*	20%
DGR			PSF133 DGR		DGR - DroughtGard® + VT Double PRO® RIB Complete®	CEW, ECB, FAW, SB, SWCB	No GMO Trait Resistance	Y	N	5% RIB*	20%
SSR	PSF068 SSR	PS1199 SSR	PSF138 SSR		SSR - SmartStax® RIB Complete®	BCW, CEW, ECB, FAW, SB, SWCB	CRW	Y	Y	5% RIB*	20%
TRE			PS1372 TRE		TRE - Built on VT Double PRO® Technology	BCW, CEW, ECB, ECB, FAW, SB, SWCB, TAW, WBC	No GMO Trait Resistance	Y	N	5% RIB*	20%
GT	PS0850 GT				GT - Agrisure® GT or Agrisure® GTA	No GMO Trait Resistance	No GMO Trait Resistance	Y	N	N/R	N/R
V32	PS0535 V32 PS0844 V32 PS0897 V32	PS0943 V32 PS1091 V32 PS1260 V32			V32 - Viptera™ + E-Z Refuge™	BCW, CEW, ECB, FAW, SB, SWCB, TAW, WBC	No GMO Trait Resistance	Y	Y	5% RIB*	20%
GBL		PS1177 GBL			GBL - Agrisure® 3010 or Agrisure Artesian® 3010A	ECB, SWCB, CEW, FAW, SB	No GMO Trait Resistance	Y	Y	20%	50%
D51	PS0711 D51				D51 - Duracade™ + E-Z Refuge™ + LibertyLink®	BCW, CEW, ECB, FAW, SB, SWCB, WBC	CRW	Y	Y	5% RIB*	20%
CNG¹	PS0479 CNG PS0770 CNG PS0881 CNG	PS1091 CNG			CNG - Conventional / Non-GMO	No GMO Trait Resistance	No GMO Trait Resistance	N	N	N/R	N/R

CNG¹ hybrids are conventional / Non-GMO, so there are no traits included. Do NOT apply glufosinate or glyphosate - based herbicides to CNG hybrids or severe damage will occur. **Important: Always read and follow label, bag & tag instructions - only those labeled tolerant to glufosinate can be sprayed with glufosinate ammonium based herbicides.** Insect Resistance Key: CEW=Corn Ear Worm; ECB=European Corn Borer; FAW=Fall Armyworm; SB=Stalk Borer; BCW=Black Cutworm SWCB=Southwestern Corn Borer; WBC=Western Bean Cutworm; TAW=True Armyworm; CRW=Corn Rootworm. Refuge Requirements: **RIB**=Refuge In Bag, 5% refuge is included in the bag, and no further refuge is required; **E-Z** = 5% Refuge included in the bag - no additional refuge is required; **20%** = a 20% refuge is required, in or adjacent to field; **50%** = means a 50% refuge within field, or adjacent to field is required. For more information on 20% & 50% structured refuge requirements, you may access the NCGA.com website. Herbicide Tolerance: "RR - GT" = glyphosate herbicide tolerant. Liberty "or LL" are tolerant to glufosinate-based herbicides.

Hybrids in blue color denotes a NEW HYBRID for 2023 Planting

Corn Relative Maturity Zones

PSF Corn Hybrid Naming System

Example: **PS0897 V32**

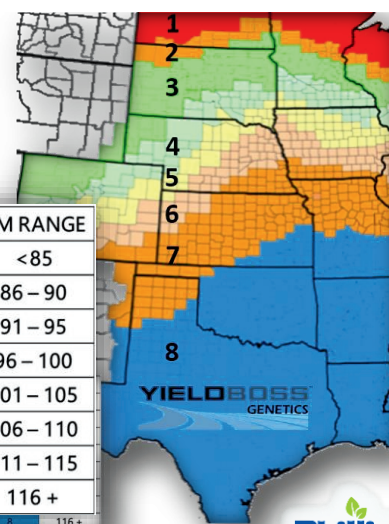
First 2 to 3 characters denote a Phillips Seed Farms Corn Hybrid

First 2 digits denote Relative Maturity

Next 1 or 2 digits are Hybrid differentiators

Hybrid Suffix string denotes trait type - See PSF Trait Code Reference

RM ZONE	RM RANGE
1	<85
2	86 - 90
3	91 - 95
4	96 - 100
5	101 - 105
6	106 - 110
7	111 - 115
8	116 +



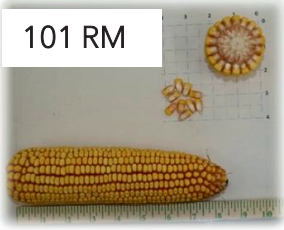


PS0134 VPR

101 RM; Zones: 3/4/5/6; GDUs to BL: 2520



101 RM



Impressive ear girth & flex
Solid yields for 101 RM
Flex ears offer PPA flexibility
Good response to fungicide
Good late season intactness

Plt Ht: M; Ear Ht: M; Ear Type: Flex - Girth

Ratings: 5 - Poor; 1 - Excellent	5	4	3	2	1
Stalk Strength				2	
Root Strength				2	
Vigor			3		
Drydown			3	2	
Test Weight			3		
Drought Tolerance			3		
Staygreen			3		
Fungicide Response					1
Silage Utility			3		
High PPA Tolerance			3		
Highly Productive Fields					1
Less Productive Fields					1
Corn on Corn			3		
Goss's Wilt			3		
Gray Leaf Spot			3		
Common Rust				2	
NCLB			3		



PS0479 CNG

104 RM; Zones:3/4/5/6; GDUs to BL: 2600



104 RM



Tall plants w/ dark green leaves
Excellent roots
Good test wt. & grain quality
Widely adaptable
Good non-GMO silage or D.P.

Plt Ht: MT; Ear Ht: M; Ear Type: SF - Avg Girth

Ratings: 5 - Poor; 1 - Excellent	5	4	3	2	1
Stalk Strength			3		
Root Strength					1
Vigor			3		
Drydown				2	
Test Weight			3		
Drought Tolerance				2	
Staygreen			3		
Fungicide Response				2	
Silage Utility				2	
High PPA Tolerance				2	
Highly Productive Fields					1
Less Productive Fields				2	
Corn on Corn			3		
Goss's Wilt			3		
Gray Leaf Spot			3		
Common Rust				2	
NCLB				2	



PS0535 V32

105 RM; Zones: 4/5/6; GDUs to BL: 2620



105 RM



Attractive plants & ear line
Very good roots
Best results at higher PPAs
Good reponse to fungicide
Best in-zone; goes N & W well

Plt Ht: MT; Ear Ht: M; Ear Type: SFlex - Avg G

Ratings: 5 - Poor; 1 - Excellent	5	4	3	2	1
Stalk Strength			3		
Root Strength				2	
Vigor				2	
Drydown			3		
Test Weight			3		
Drought Tolerance			3		
Staygreen					1
Fungicide Response				2	
Silage Utility			3		
High PPA Tolerance				2	
Highly Productive Fields					1
Less Productive Fields				2	
Corn on Corn			3		
Goss's Wilt					1
Gray Leaf Spot			3		
Common Rust			3		
NCLB				2	



PSF068 SSR

106 RM; Zones: 4/5/6; GDUs to BL: 2645



106 RM



Flex ears with average girth
Strong stalks & roots
Lower greensnap risk
Good disease resistance
Widely adapted; moves S well

Plt Ht: MT; Ear Ht: MH; Ear Type: Flex - Avg G

Ratings: 5 - Poor; 1 - Excellent	5	4	3	2	1
Stalk Strength			3		
Root Strength				2	
Vigor				2	
Drydown				2	
Test Weight			3		
Drought Tolerance			3		
Staygreen				2	
Fungicide Response				2	
Silage Utility				2	
High PPA Tolerance				2	
Highly Productive Fields					1
Less Productive Fields				2	
Corn on Corn			3		
Goss's Wilt				2	
Gray Leaf Spot				2	
Common Rust			3		
NCLB				2	



PS0711 D51

107 RM; Zones: 4/5/6/7; GDUs to BL: 2685



Good yields for RM
 Good for no-till & cooler soils
 Best in-zone; moves N & W well
 Excellent CRW resistance
 Artesian™ Technology

Plt Ht: M; Ear Ht: M; Ear Type: Flex - Girth

Ratings: 5 - Poor; 1 - Excellent	5	4	3	2	1
Stalk Strength			3		
Root Strength			3		
Vigor					1
Drydown			3		
Test Weight			3		
Drought Tolerance					1
Staygreen			3		
Fungicide Response				2	
Silage Utility			3		
High PPA Tolerance					1
Highly Productive Fields					1
Less Productive Fields					1
Corn on Corn					1
Goss's Wilt					1
Gray Leaf Spot			3		
Common Rust			3		
NCLB			3		



PS0770 VPR

107 RM; Zones: 4/5/6/7; GDUs to BL: 2690



Good yields of grain or silage
 Position on good soils
 Flowers late, but dries down
 Very good test weight
 Also available as a CNG vers.

Plt Ht: MT; Ear Ht: M; Ear Type: SFlex - Girth

Ratings: 5 - Poor; 1 - Excellent	5	4	3	2	1
Stalk Strength			3		
Root Strength				2	
Vigor				2	
Drydown					1
Test Weight				2	
Drought Tolerance			3		
Staygreen				2	
Fungicide Response				2	
Silage Utility				2	
High PPA Tolerance				2	
Highly Productive Fields					1
Less Productive Fields				2	
Corn on Corn				2	
Goss's Wilt				2	
Gray Leaf Spot				2	
Common Rust			3		
NCLB				2	



PSF082 VPR

108 RM; Zones: 5/6/7; GDUs to BL: 2700



Good stress ground hybrid
 Very good roots & stalks
 Maintains consistent ear size
 Good test wt. & grain quality
 Minimal greensnap risk

Plt Ht: M; Ear Ht: M; Ear Type: SFlex - Girth

Ratings: 5 - Poor; 1 - Excellent	5	4	3	2	1
Stalk Strength				2	
Root Strength					1
Vigor			3		
Drydown			3		
Test Weight			3		
Drought Tolerance			3		
Staygreen				2	
Fungicide Response				2	
Silage Utility				2	
High PPA Tolerance			3		
Highly Productive Fields				2	
Less Productive Fields					1
Corn on Corn			3		
Goss's Wilt			3		
Gray Leaf Spot			3		
Common Rust				2	
NCLB			3		



PSF0844 V32

108 RM; Zones: 5/6/7; GDUs to BL: 2705



Big yields; 106%+ plot mean
 Excellent emergence & vigor
 Adaptable; Moves N to S well
 Artesian™ Technology
 Strong Goss's Wilt resistance

Plt Ht: M; Ear Ht: M; Ear Type: SFlex - Girth

Ratings: 5 - Poor; 1 - Excellent	5	4	3	2	1
Stalk Strength				2	
Root Strength				2	
Vigor					1
Drydown					1
Test Weight			3		
Drought Tolerance					1
Staygreen				2	
Fungicide Response			3		
Silage Utility			3		
High PPA Tolerance				2	
Highly Productive Fields					1
Less Productive Fields					1
Corn on Corn				2	
Goss's Wilt					1
Gray Leaf Spot			3		
Common Rust			3		
NCLB			3		



PS0850 GT

108 RM; Zones: 5/6/7; GDUs to BL: 2705



Excellent roots & stalks
Adapted to 108 RM zone & S
Good late season health
Glyphosate Tolerant only
20% refuge for PS1177 GBL

Plt Ht: MT; Ear Ht: M; Ear Type: SFlex - Avg Girth

Ratings: 5 - Poor; 1 - Excellent	5	4	3	2	1
Stalk Strength				2	
Root Strength					1
Vigor			3		
Drydown			3		
Test Weight			3		
Drought Tolerance				2	
Staygreen					1
Fungicide Response				2	
Silage Utility				2	
High PPA Tolerance				2	
Highly Productive Fields					1
Less Productive Fields					1
Corn on Corn			3		
Goss's Wilt					1
Gray Leaf Spot			3		
Common Rust			3		
NCLB				2	



PS0881 CNG

108 RM; Zones: 5/6/7; GDUs to BL: 2710



Widely adaptable from N to S
Conventional/Non-GMO
Semi-flex ears w/ avg girth
VG stalks & roots; DP/Silage
Solid Goss's Wilt & GLS scores

Plt Ht: MT; Ear Ht: M; Ear Type: SFlex - Avg Girth

Ratings: 5 - Poor; 1 - Excellent	5	4	3	2	1
Stalk Strength				2	
Root Strength				2	
Vigor			3		
Drydown				2	
Test Weight				2	
Drought Tolerance			3		
Staygreen				2	
Fungicide Response				2	
Silage Utility					1
High PPA Tolerance				2	
Highly Productive Fields					1
Less Productive Fields					1
Corn on Corn			3		
Goss's Wilt					1
Gray Leaf Spot				2	
Common Rust			3		
NCLB			3		



PS0897 V32

108 RM; Zones: 5/6/7; GDUs to BL: 2710



Big yielder N to S; 108% of Mn.
Works in all environments
Very good disease protection
Solid Goss's Wilt & GLS scores
Artesian™ Technology

Plt Ht: MT; Ear Ht: M; Ear Type: SFlex - Avg Girth

Ratings: 5 - Poor; 1 - Excellent	5	4	3	2	1
Stalk Strength				2	
Root Strength			3		
Vigor			3		
Drydown					1
Test Weight			3		
Drought Tolerance					1
Staygreen				2	
Fungicide Response				2	
Silage Utility				2	
High PPA Tolerance				2	
Highly Productive Fields					1
Less Productive Fields					1
Corn on Corn				2	
Goss's Wilt					1
Gray Leaf Spot					1
Common Rust			3		
NCLB					1



PS0943 V32

109 RM; Zones: 5/6/7; GDUs to BL: 2715



Strong yielder: High win %
Best in zone, but good S & W
Strong seedling vigor
Excellent staygreen
Strong Goss's Wilt resistance

Plt Ht: M; Ear Ht: M; Ear Type: SFlex - Girth

Ratings: 5 - Poor; 1 - Excellent	5	4	3	2	1
Stalk Strength				2	
Root Strength			3		
Vigor					1
Drydown			3		
Test Weight			3		
Drought Tolerance				2	
Staygreen					1
Fungicide Response				2	
Silage Utility				2	
High PPA Tolerance				2	
Highly Productive Fields					1
Less Productive Fields				2	
Corn on Corn			3		
Goss's Wilt					1
Gray Leaf Spot			3		
Common Rust			3		
NCLB				2	



PSF098 VPR

109 RM; Zones: 5/6/7; GDUs to BL: 2735



Good performance history
 Good dual purpose value
 Uniform ears w/ deep kernels
 Good staygreen & intactness
 Widely adaptable

Plt Ht: MT; Ear Ht: MH; Ear Type: SFlex - Girth

Ratings: 5 - Poor; 1 - Excellent	5	4	3	2	1
Stalk Strength			3		
Root Strength				2	
Vigor				2	
Drydown			3		
Test Weight			3		
Drought Tolerance			3		
Staygreen				2	
Fungicide Response				2	
Silage Utility					1
High PPA Tolerance				2	
Highly Productive Fields					1
Less Productive Fields				2	
Corn on Corn			3		
Goss's Wilt				2	
Gray Leaf Spot				2	
Common Rust				2	
NCLB		4			



PS1063 VPR

110 RM; Zones: 5/6/7; GDUs to BL: 2720



Excellent yields in all areas
 Fast growth hybrid
 Big yields - harvest on time
 Excellent drydown for RM
 Very good Goss's Wilt score

Plt Ht: M; Ear Ht: M; Ear Type: SFlex - Avg Girth

Ratings: 5 - Poor; 1 - Excellent	5	4	3	2	1
Stalk Strength				2	
Root Strength			3		
Vigor			3		
Drydown					1
Test Weight			3		
Drought Tolerance				2	
Staygreen			3		
Fungicide Response				2	
Silage Utility				2	
High PPA Tolerance				2	
Highly Productive Fields					1
Less Productive Fields					1
Corn on Corn				2	
Goss's Wilt				2	
Gray Leaf Spot			3		
Common Rust			3		
NCLB			3		



PS1091 V32

110 RM; Zones: 5/6/7; GDUs to BL: 2745



Good yield track record
 Known for girthy flex ears
 Good response to fungicide
 Widely adapted from N to S
 Ear flex offers PPA flexibility

Plt Ht: M; Ear Ht: M; Ear Type: Flex w/ Girth

Ratings: 5 - Poor; 1 - Excellent	5	4	3	2	1
Stalk Strength				2	
Root Strength			3		
Vigor			3		
Drydown			3		
Test Weight			3		
Drought Tolerance				2	
Staygreen			3		
Fungicide Response			3		
Silage Utility				2	
High PPA Tolerance				2	
Highly Productive Fields					1
Less Productive Fields					1
Corn on Corn			3		
Goss's Wilt					1
Gray Leaf Spot					1
Common Rust		4			
NCLB				2	



PS1177 GBL

111 RM; Zones: 5/6/7/8; GDUs to BL: 2760



Top end yields on strong stalks
 Excellent dual purpose utility
 Flex ears helps w/ PPA levels
 Good against foliar disease
 Artesian™ Technology

Plt Ht: MT; Ear Ht: MH; Ear Type: Flex w/ Girth

Ratings: 5 - Poor; 1 - Excellent	5	4	3	2	1
Stalk Strength					1
Root Strength				2	
Vigor				2	
Drydown					1
Test Weight			3		
Drought Tolerance					1
Staygreen				2	
Fungicide Response				2	
Silage Utility					1
High PPA Tolerance			3		
Highly Productive Fields					1
Less Productive Fields				2	
Corn on Corn			3		
Goss's Wilt					1
Gray Leaf Spot					1
Common Rust			3		
NCLB					1



PS1199 VPR

111 RM; Zones: 5/6/7/8; GDUs to BL: 2770



Consistently high yields
Great range from N to S
Widely adaptable to all soils
Good against greensnap
Also available as an SSR version

Plt Ht: M; Ear Ht: M; Ear Type: SFlex - Girth

Ratings: 5 - Poor; 1 - Excellent	5	4	3	2	1
Stalk Strength				2	
Root Strength				2	
Vigor			3		
Drydown				2	
Test Weight			3		
Drought Tolerance			3		
Staygreen			3		
Fungicide Response				2	
Silage Utility			3		
High PPA Tolerance				2	
Highly Productive Fields					1
Less Productive Fields					1
Corn on Corn			3		
Goss's Wilt					1
Gray Leaf Spot					1
Common Rust			3		
NCLB				2	



PS1260 V32

112 RM; Zones: 6/7/8; GDUs to BL: 2775



Works for grain or silage
Very good emergence/vigor
Responds to high management
Excellent root strength
Average to good stalks

Plt Ht: MT; Ear Ht: M; Ear Type: SFlex - Girth

Ratings: 5 - Poor; 1 - Excellent	5	4	3	2	1
Stalk Strength			3		
Root Strength					1
Vigor					1
Drydown				2	
Test Weight			3		
Drought Tolerance				2	
Staygreen				2	
Fungicide Response				2	
Silage Utility				2	
High PPA Tolerance				2	
Highly Productive Fields					1
Less Productive Fields				2	
Corn on Corn			3		
Goss's Wilt					1
Gray Leaf Spot			3		
Common Rust			3		
NCLB				2	



PSF128 VPR

112 RM; Zones: 6/7/8; GDUs to BL: 2780



Good, economical performer
Flex ears allow PPA flexibility
Good on dryland or irrigation
Good in zone and S of zone
5% RIB for easy refuge mgmt.

Plt Ht: MT; Ear Ht: M; Ear Type: Flex - Avg Girth

Ratings: 5 - Poor; 1 - Excellent	5	4	3	2	1
Stalk Strength			3		
Root Strength			3		
Vigor			3		
Drydown			3		
Test Weight			3		
Drought Tolerance				2	
Staygreen			3		
Fungicide Response				2	
Silage Utility				2	
High PPA Tolerance				2	
Highly Productive Fields					1
Less Productive Fields				2	
Corn on Corn			3		
Goss's Wilt				2	
Gray Leaf Spot			3		
Common Rust			3		
NCLB				2	



PSF133 DGR

113 RM; Zones: 6/7/8; GDUs to BL: 2800



Impressive yield record
Tall, rugged dual purpose
Minimal greensnap risk
DroughtGard® technology
Widely adaptable for 113 RM

Plt Ht: MT-T; Ear Ht: MH; Ear Type: SFlex - Girth

Ratings: 5 - Poor; 1 - Excellent	5	4	3	2	1
Stalk Strength			3		
Root Strength			3		
Vigor			3		
Drydown			3		
Test Weight			3		
Drought Tolerance				2	
Staygreen			3		
Fungicide Response				2	
Silage Utility					1
High PPA Tolerance			3		
Highly Productive Fields					1
Less Productive Fields					1
Corn on Corn				2	
Goss's Wilt					1
Gray Leaf Spot			3		
Common Rust			3		
NCLB			3		



PS1366 VPR

113 RM; Zones: 6/7/8; GDUs to BL: 2810



Very consistent yielder
 Very good roots and stalks
 Widely adaptable from N to S
 Good tip fill, T.W. & quality
 Very good late season health

Plt Ht: MT; Ear Ht: M; Ear Type: Flex - Girth

Ratings: 5 - Poor; 1 - Excellent	5	4	3	2	1
Stalk Strength				2	
Root Strength				2	
Vigor			3		
Drydown			3		
Test Weight			3		
Drought Tolerance				2	
Staygreen				2	
Fungicide Response				2	
Silage Utility					1
High PPA Tolerance				2	
Highly Productive Fields					1
Less Productive Fields					1
Corn on Corn					1
Goss's Wilt			3		
Gray Leaf Spot				2	
Common Rust			3		
NCLB				2	



PS1372 TRE

113 RM; Zones: 6/7/8; GDUs to BL: 2800



Top yielder; 110%+ plot mn.
 Attractive, robust plants
 Very good on all soils & mgmt.
 Very adaptable; moves S well
 5% RIB for refuge convenience

Plt Ht: MT; Ear Ht: M; Ear Type: SFlex - Girth

Ratings: 5 - Poor; 1 - Excellent	5	4	3	2	1
Stalk Strength			3		
Root Strength				2	
Vigor			3		
Drydown					1
Test Weight				2	
Drought Tolerance				2	
Staygreen			3		
Fungicide Response				2	
Silage Utility				2	
High PPA Tolerance				2	
Highly Productive Fields					1
Less Productive Fields					1
Corn on Corn			3		
Goss's Wilt			3		
Gray Leaf Spot			3		
Common Rust			3		
NCLB				2	



PSF138 SSR

113 RM; Zones: 6/7/8; GDUs to BL: 2820



Yields best with management
 Semi-flex ears produce well
 Excellent test weight & quality
 Good dual purpose potential
 Good CRW protection option

Plt Ht: MT; Ear Ht: M; Ear Type: Flex - Avg Girth

Ratings: 5 - Poor; 1 - Excellent	5	4	3	2	1
Stalk Strength				2	
Root Strength				2	
Vigor				2	
Drydown			3		
Test Weight			3		
Drought Tolerance				2	
Staygreen			3		
Fungicide Response				2	
Silage Utility				2	
High PPA Tolerance			3		
Highly Productive Fields					1
Less Productive Fields					1
Corn on Corn			3		
Goss's Wilt			3		
Gray Leaf Spot			3		
Common Rust			3		
NCLB				2	



PSF148 VPR

114 RM; Zones: 6/7/8; GDUs to BL: 2830



Proven yield track record
 Lengthy, flex ears fill tips well
 Handles heat & drought stress
 Good dual purpose utility
 Best performance in rotation

Plt Ht: MT; Ear Ht: M; Ear Type: Flex - Avg Girth

Ratings: 5 - Poor; 1 - Excellent	5	4	3	2	1
Stalk Strength			3		
Root Strength			3		
Vigor			3		
Drydown				2	
Test Weight				2	
Drought Tolerance					1
Staygreen			3		
Fungicide Response				2	
Silage Utility				2	
High PPA Tolerance				2	
Highly Productive Fields					1
Less Productive Fields					1
Corn on Corn		4			
Goss's Wilt			3		
Gray Leaf Spot			3		
Common Rust				2	
NCLB				2	



PS1652 VPR

116 RM; Zones: 6/7/8; GDUs to BL: 2860



- Best for high quality silage
- Good drydown for maturity
- Good canopy and husk cover
- Good against Goss's & NCLB
- Excellent feed values for silage

Plt Ht: MT; Ear Ht: M; Ear Type: SFlex - Girth

Ratings: 5 - Poor; 1 - Excellent	5	4	3	2	1
Stalk Strength				2	
Root Strength				2	
Vigor			3		
Drydown				2	
Test Weight				2	
Drought Tolerance				2	
Staygreen				2	
Fungicide Response				2	
Silage Utility					1
High PPA Tolerance				2	
Highly Productive Fields					1
Less Productive Fields					1
Corn on Corn				2	
Goss's Wilt				2	
Gray Leaf Spot			3		
Common Rust			3		
NCLB				2	



PS1652 VPR @ 31,500 ppa dryland



Phillips Seed Farms Corn Hybrid Characteristic Chart

BRAND / HYBRID	PS0134 VPR	PS0479 CNG	PS0535 V32	PSF068 SSR	PS0711 D51	PS0770 VPR	PSF082 VPR	PS0844 V32	PS0850 GT	PS0881 CNG	PS0897 V32	PS0943 V32	PSF098 VPR	PS1063 VPR	PS1091 V32	PS1177 GBL	PS1199 VPR	PS1260 V32	PSF128 VPR	PSF133 DGR	PS1366 VPR	PS1372 TRE	PSF138 SSR	PSF148 VPR	PS1652 VPR
Trait Vers.	VPR	CNG	V32	SSR	D51	VPR	VPR	V32	GT	CNG	V32	V32	VPR	VPR	V32	GBL	VPR	V32	VPR	DGR	VPR	TRE	SSR	VPR	VPR
Add'l Vers.						CNG									CNG		SSR						VPR		
RM	101	104	105	106	107	107	108	108	108	108	108	109	109	110	110	111	111	112	112	113	113	113	113	114	116
GDU to Black Layer	2520	2600	2620	2645	2685	2690	2700	2705	2705	2710	2710	2715	2735	2720	2745	2760	2770	2775	2780	2800	2810	2800	2820	2830	2860
Plant Ht.	M	MT	MT	MT	M	MT	M	M	MT	MT	MT	M	MT	M	M	MT	M	MT	MT	T	MT	MT	MT	MT	MT
Ear Ht.	M	M	M	MH	M	M	M	M	MT	M	M	M	MH	M	M	MH	M	M	M	MH	M	M	M	M	M
Ear Flex	F	SF	SF	F	F	SF	SF	SF	SF	SF	SF	SF	SF	SF	F	F	SF	SF	F	SF	F	SF	F	F	SF
Stalk Strength	2	3	3	3	3	3	2	2	2	2	2	2	3	2	2	1	2	3	3	3	2	3	2	3	2
Root Strength	2	1	2	2	3	2	1	2	1	2	3	3	2	3	3	2	2	1	3	3	2	2	2	3	2
Vigor	3	3	2	2	1	2	3	1	3	3	3	1	2	3	3	2	3	1	3	3	3	3	2	3	3
Drydown	2	2	3	2	3	1	3	1	3	2	1	3	3	1	3	1	2	2	3	3	3	1	3	2	2
Test Weight	3	3	3	3	3	2	3	3	3	2	3	3	3	3	3	3	3	3	3	3	3	2	3	2	2
Drought Tolerance	3	2	3	3	1	3	3	1	2	3	1	2	3	2	2	1	3	2	2	2	2	2	2	1	2
Staygreen	3	3	1	2	3	2	2	2	1	2	2	1	2	3	3	2	3	2	3	3	2	3	3	3	2
Fungicide Response	1	2	2	2	2	2	2	3	2	2	2	2	2	2	3	2	2	2	2	2	2	2	2	2	2
Silage Use	3	2	3	2	3	2	2	3	2	1	2	2	1	2	2	1	3	2	2	1	1	2	2	2	1
High PPA Tolerance	3	2	2	2	1	2	3	2	2	2	2	2	2	2	2	3	2	2	2	3	2	2	3	2	2
Highly Prod. Fields	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Moderately Prod. Fields	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Less Prod. Fields	1	2	2	2	1	2	1	1	1	1	1	1	2	1	1	1	1	2	2	1	1	1	1	1	1
Corn on Corn	3	3	3	3	1	2	3	2	3	3	2	3	3	2	3	3	3	3	3	2	1	3	3	4	1
Goss's Wilt	3	3	1	2	1	2	3	1	1	1	1	1	2	2	1	1	1	1	2	1	3	3	3	3	2
Gray Leaf Spot	3	3	3	2	3	2	3	3	3	2	1	3	2	3	1	1	1	3	3	3	2	3	3	3	3
Common Rust	2	2	3	3	3	3	2	3	3	3	3	3	2	3	4	3	3	3	3	3	3	3	2	3	3
NCLB	3	2	2	2	3	2	3	3	2	3	1	2	4	3	2	1	2	2	2	3	2	2	2	2	2
Yield for Maturity Rating: 10 = Best	9.60	9.10	9.00	8.95	9.35	9.30	9.10	9.90	9.70	9.45	9.95	9.95	9.20	10.00	9.55	9.80	9.90	9.45	9.30	9.80	9.85	10.00	9.55	9.45	9.40

Key: 1 = Excellent; 2 = Very Good; 3 = Good/Avg.; 4 = Fair/Below Avg.; 5 = Poor


M = Medium; MT = Medium Tall; T = Tall; MH = Medium High; MS = Medium Short

N/A = Not Available; N/T = Not Tested. Ear Flex: F=Flex; SF=Semi-Flex



Phillips Seed Farms Soybean Variety Information



Trait > Maturity Group	X TENDFLEX SOYBEANS	ROUNDUP READY 2 X TEND SOYBEANS	 Enlist E3 SOYBEANS
II	2833XF 2903XF		240E3 2763E3
III	3313XF 3863XFE		322E3 3483E3S 361E3
IV	4003XFSE 442XFS 461XFS 4623XFSE 492XFSE	408NR2XS 430NR2XSE	402E3 420E3S 460E3SE 482E3S

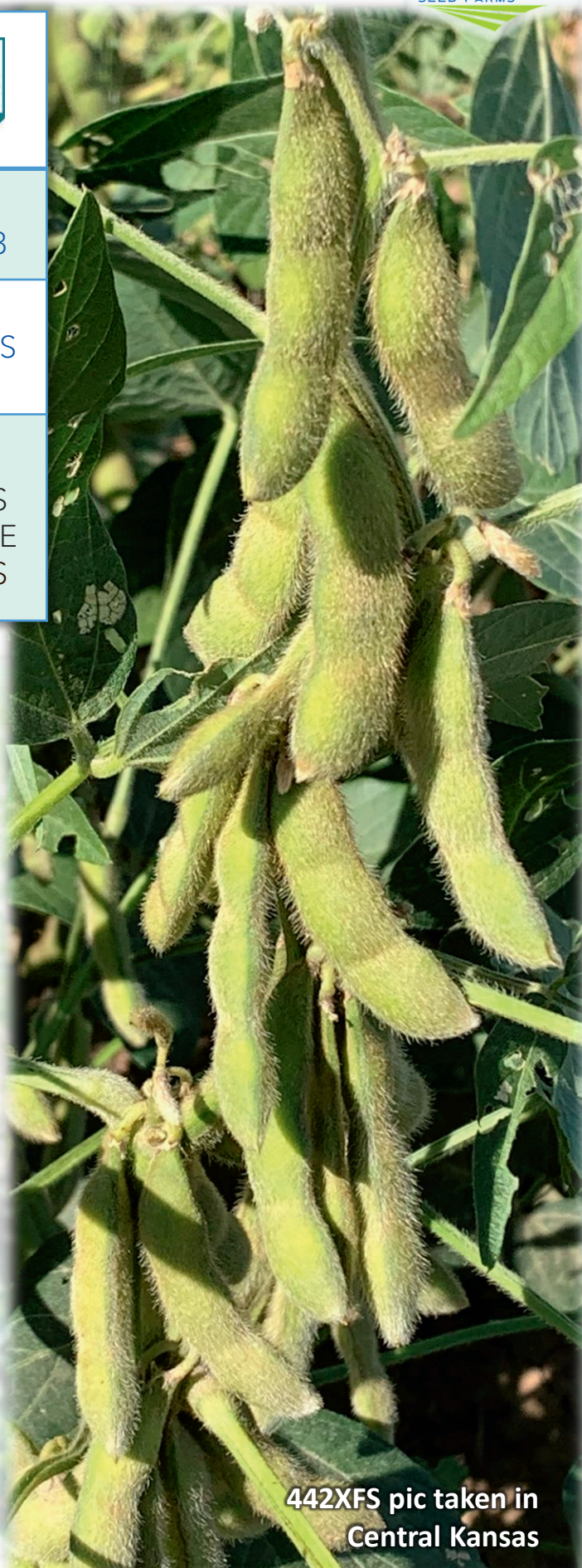
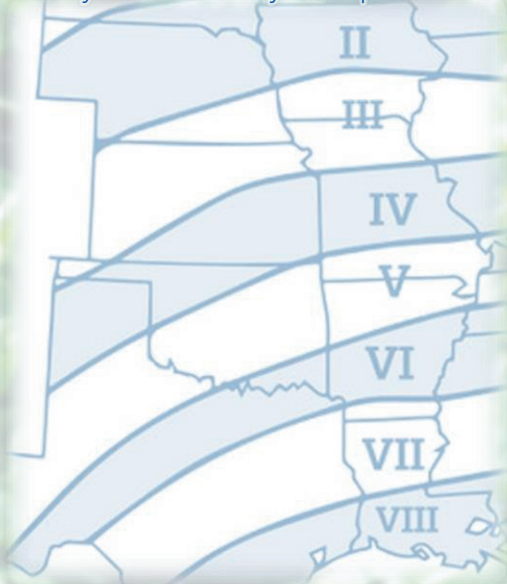
Varieties in BLUE are new for 2023 planting

SOYBEAN VARIETY NAMING SYSTEM

Example: 4003XFSE

- ❑ 1st two numbers denote maturity
- ❑ 3rd and 4th numbers differentiate the variety
- ❑ Remaining character string indicates trait type, and additional tolerances or gene presence:
 - "S" designation denotes STS tolerance
 - "E" at the end of the character string denotes the salt "Excluder" gene is present

Soybean Maturity Group Zones



442XFS pic taken in Central Kansas

240E3

Very good yields & standability. Good disease package. Good choice for northern NE & western IA.



Maturity	Plant Type	Plant Height	Flower Color	Pub.	Pod Color	Hilum Color
2.4	Intermed.	MT	Purple	Gray	Tan	Buff
1=Exc/High; 5=Poor/Low		5	4	3	2	1

Characteristics

Standability	2.5
Emergence	2.0
Stress Tolerance	2.5

Disease Ratings

Iron Def. Chlorosis		3.5	1.0
Phytophthora Root Rot	Rps 1c	2.0	
Sudden Death Syndrome		2.0	
White Mold		2.0	
Stem Canker			

Brown Stem Rot	-- No Rating --
Frogeye Leaf Spot	-- No Rating --
Soybean Cyst Nematode	2.5
Root Knot	-- No Rating --

Herbicide Tolerance & Additional Gene Presence

Sulfonyleurea	NO	Dicamba	NO
Glyphosate (RR)	YES	2-4D	YES
Glufosinate (LL)	YES	Salt Excluder Gene	NO

2763E3

Very good for all areas where a 2.7 bean can be grown. Very good yields. Clean look. Stands well.



Maturity	Plant Type	Plant Height	Flower Color	Pub.	Pod Color	Hilum Color
2.7	Intermed.	MT	Purple	Gray	BR	Buff
1=Exc/High; 5=Poor/Low		5	4	3	2	1

Characteristics

Standability	2.5
Emergence	2.0
Stress Tolerance	2.5

Disease Ratings

Iron Def. Chlorosis			3.0	
Phytophthora Root Rot	Rps 1c			2.5
Sudden Death Syndrome			3.5	
White Mold			3.5	
Stem Canker				2.0

Brown Stem Rot	-- No Rating --
Frogeye Leaf Spot	-- No Rating --
Soybean Cyst Nematode	2.5
Charcoal Rot	2.5

Herbicide Tolerance & Additional Gene Presence

Sulfonyleurea	NO	Dicamba	NO
Glyphosate (RR)	YES	2-4D	YES
Glufosinate (LL)	YES	Salt Excluder Gene	NO

2833XF

Very good yield & standability. Good against SDS. Good on most soils, but manage use on high pH soils.



Maturity	Plant Type	Plant Height	Flower Color	Pub.	Pod Color	Hilum Color
2.8	Med Bush	MT	Purple	Gray	BL	IB
1=Exc/High; 5=Poor/Low		5	4	3	2	1

Characteristics

Standability	2.5
Emergence	1.0
Stress Tolerance	2.0

Disease Ratings

Iron Def. Chlorosis		4.0	
Phytophthora Root Rot	Rps 1c		3.5
Sudden Death Syndrome			2.0
White Mold			3.5
Stem Canker	-- No Rating --		

Brown Stem Rot	2.0
Frogeye Leaf Spot	-- No Rating --
Soybean Cyst Nematode	2.0
Root Knot	-- No Rating --

Herbicide Tolerance & Additional Gene Presence

Sulfonyleurea	NO	Dicamba	YES
Glyphosate (RR)	YES	2-4D	NO
Glufosinate (LL)	YES	Salt Excluder Gene	NO

2903XF

Best in eastern NE & western IA. Above average PRR tolerance. Manage use on high pH & SDS acres.



Maturity	Plant Type	Plant Height	Flower Color	Pub.	Pod Color	Hilum Color
2.9	Med Bush	MT	Purple	Gray	BL	IB
1=Exc/High; 5=Poor/Low		5	4	3	2	1

Characteristics

Standability	2.0
Emergence	1.5
Stress Tolerance	1.5

Disease Ratings

Iron Def. Chlorosis	3.0
Phytophthora Root Rot	2.5
Sudden Death Syndrome	3.5
White Mold	3.0

Stem Canker	-- No Rating --
Brown Stem Rot	-- No Rating --
Frogeye Leaf Spot	-- No Rating --
Soybean Cyst Nematode	-- No Rating --
Root Knot	-- No Rating --

Herbicide Tolerance & Additional Gene Presence

Sulfonyleurea	NO	Dicamba	YES
Glyphosate (RR)	YES	2-4D	NO
Glufosinate (LL)	YES	Salt Excluder Gene	NO

322E3

Consistent high yielding early MG3 bean with solid disease package, including SDS, PRR & SCN.



Maturity	Plant Type	Plant Height	Flower Color	Pub.	Pod Color	Hilum Color
3.2	Intermed.	M-MT	Purple	Gray	Tan	IB
1=Exc/High; 5=Poor/Low		5	4	3	2	1

Characteristics

Standability					2.5	
Emergence						1.5
Stress Tolerance						1.5

Disease Ratings

Iron Def. Chlorosis					2.5	
Phytophthora Root Rot					2.0	
Sudden Death Syndrome					2.5	
White Mold		-- No Rating --				
Stem Canker					2.0	
Brown Stem Rot		-- No Rating --				
Frogeye Leaf Spot					2.5	
Soybean Cyst Nematode					2.0	
Root Knot		-- No Rating --				

Herbicide Tolerance & Additional Gene Presence

Sulfonylurea	NO	Dicamba	NO
Glyphosate (RR)	YES	2-4D	YES
Glufosinate (LL)	YES	Salt Excluder Gene	NO

3313XF

New early MG3 variety emerges strong and stands well. Good yielder. Good against IDC, BSR & SCN.



Maturity	Plant Type	Plant Height	Flower Color	Pub.	Pod Color	Hilum Color
3.3	Med Bush	MT	Purple	Gray	BR	IB
1=Exc/High; 5=Poor/Low		5	4	3	2	1

Characteristics

Standability					2.0	
Emergence						1.5
Stress Tolerance						1.5

Disease Ratings

Iron Def. Chlorosis					2.0	
Phytophthora Root Rot	Rps 1c			3.0		
Sudden Death Syndrome				3.5		
White Mold		-- No Rating --			2.5	
Stem Canker					2.0	
Brown Stem Rot					2.0	
Frogeye Leaf Spot		-- No Rating --				
Soybean Cyst Nematode					2.0	
Root Knot		-- No Rating --				

Herbicide Tolerance & Additional Gene Presence

Sulfonylurea	NO	Dicamba	YES
Glyphosate (RR)	YES	2-4D	NO
Glufosinate (LL)	YES	Salt Excluder Gene	NO

3483E3S

Consistent yields with solid disease package, including PRR, SDS, BSR & SCN. Very good agronomics, too.



Maturity	Plant Type	Plant Height	Flower Color	Pub.	Pod Color	Hilum Color
3.4	Intermed.	MT	Purple	Gray	Tan	Buff
1=Exc/High; 5=Poor/Low		5	4	3	2	1

Characteristics

Standability					2.0	
Emergence						1.5
Stress Tolerance					2.0	

Disease Ratings

Iron Def. Chlorosis					2.5	
Phytophthora Root Rot	Rps 1k				2.0	
Sudden Death Syndrome					2.0	
White Mold		-- No Rating --				
Stem Canker					2.0	
Brown Stem Rot					2.0	
Frogeye Leaf Spot					2.5	
Soybean Cyst Nematode					2.0	
Root Knot		-- No Rating --				

Herbicide Tolerance & Additional Gene Presence

Sulfonylurea	YES	Dicamba	NO
Glyphosate (RR)	YES	2-4D	YES
Glufosinate (LL)	YES	Salt Excluder Gene	NO

361E3

Good all-around mid-group III bean. Excellent on stress. Good disease package, including SCN, BSR & PRR.



Maturity	Plant Type	Plant Height	Flower Color	Pub.	Pod Color	Hilum Color
3.6	Med Bush	MT	Purple	Gray	Tan	IB
1=Exc/High; 5=Poor/Low		5	4	3	2	1

Characteristics

Standability					2.5	
Emergence					2.0	
Stress Tolerance						1.0

Disease Ratings

Iron Def. Chlorosis		-- No Rating --				
Phytophthora Root Rot	Rps 1k				2.0	
Sudden Death Syndrome					2.5	
White Mold		-- No Rating --				
Stem Canker						1.0
Brown Stem Rot		-- No Rating --				1.0
Frogeye Leaf Spot				3.5		
Soybean Cyst Nematode					2.0	
Root Knot		-- No Rating --				

Herbicide Tolerance & Additional Gene Presence

Sulfonylurea	NO	Dicamba	NO
Glyphosate (RR)	YES	2-4D	YES
Glufosinate (LL)	YES	Salt Excluder Gene	NO

3863XFE



Above average standability for a taller plant. Good for narrow rows. Has the excluder for chloride sensitivity.

Maturity	Plant Type	Plant Height	Flower Color	Pub.	Pod Color	Hilum Color
3.9	Med Bush	T	White	Gray	BR	Buff
1=Exc/High; 5=Poor/Low		5	4	3	2	1

Characteristics

Standability					2.5	
Emergence						1.5
Stress Tolerance					2.0	

Disease Ratings

Iron Def. Chlorosis				3.5		
Phytophthora Root Rot	Rps 1c			3.5		
Sudden Death Syndrome				3.5		
White Mold				4.0		
Stem Canker				4.5		
Brown Stem Rot			-- No Rating --			
Frogeye Leaf Spot				4.5		
Soybean Cyst Nematode					2.0	
Root Knot				4.0		

Herbicide Tolerance & Additional Gene Presence

Sulfonyleurea	NO	Dicamba	YES
Glyphosate (RR)	YES	2-4D	NO
Glufosinate (LL)	YES	Salt Excluder Gene	YES

402E3



Attractive variety well adapted to soils and environments. Works on tough soils and clay. Nice yields!

Maturity	Plant Type	Plant Height	Flower Color	Pub.	Pod Color	Hilum Color
4.0	Med Bush	MT	White	LT	BR	BR
1=Exc/High; 5=Poor/Low		5	4	3	2	1

Characteristics

Standability					2.5	
Emergence						1.0
Stress Tolerance					2.0	

Disease Ratings

Iron Def. Chlorosis		-- No Rating --				
Phytophthora Root Rot					2.5	
Sudden Death Syndrome					2.5	
Cerospora						1.5
Stem Canker					2.0	
Brown Stem Rot		-- No Rating --				
Frogeye Leaf Spot						1.5
Soybean Cyst Nematode					2.0	
Root Knot		-- No Rating --				

Herbicide Tolerance & Additional Gene Presence

Sulfonyleurea	NO	Dicamba	NO
Glyphosate (RR)	YES	2-4D	YES
Glufosinate (LL)	YES	Salt Excluder Gene	NO

4003XFSE



Strong performer loads the pods! Sold against SDS and Frogeye Leaf Spot. Contains the excluder gene.

Maturity	Plant Type	Plant Height	Flower Color	Pub.	Pod Color	Hilum Color
4.0	Med Bush	MT	Purple	Gray	BR	IB
1=Exc/High; 5=Poor/Low		5	4	3	2	1

Characteristics

Standability					2.5	
Emergence						1.5
Stress Tolerance					2.5	

Disease Ratings

Iron Def. Chlorosis				3.0		
Phytophthora Root Rot				3.0		
Sudden Death Syndrome					2.5	
White Mold				3.5		
Stem Canker					2.0	
Brown Stem Rot			-- No Rating --			
Frogeye Leaf Spot				3.5		
Soybean Cyst Nematode					2.0	
Root Knot			-- No Rating --			

Herbicide Tolerance & Additional Gene Presence

Sulfonyleurea	YES	Dicamba	YES
Glyphosate (RR)	YES	2-4D	NO
Glufosinate (LL)	YES	Salt Excluder Gene	YES

408NR2XS



Works well in the western environments. Good yields with good standability. Known performer.

Maturity	Plant Type	Plant Height	Flower Color	Pub.	Pod Color	Hilum Color
4.0	Intermed.	MT	Purple	LT	Tan	BL
1=Exc/High; 5=Poor/Low		5	4	3	2	1

Characteristics

Standability						1.5
Emergence						1.5
Stress Tolerance					2.0	

Disease Ratings

Iron Def. Chlorosis		-- No Rating --				
Phytophthora Root Rot					2.0	
Sudden Death Syndrome					2.0	
White Mold		-- No Rating --				
Stem Canker			4.0			
Brown Stem Rot		-- No Rating --				
Frogeye Leaf Spot					3.0	
Soybean Cyst Nematode		-- No Rating --				
Root Knot			4.0			

Herbicide Tolerance & Additional Gene Presence

Sulfonyleurea	YES	Dicamba	YES
Glyphosate (RR)	YES	2-4D	NO
Glufosinate (LL)	NO	Salt Excluder Gene	NO

420E3S

Consistent performer with Sulfonylea tolerance. Good fit for lighter loam soils. Plants emerge and stand well.



Maturity	Plant Type	Plant Height	Flower Color	Pub.	Pod Color	Hilum Color
4.2	Intermed.	M	White	Gray	BR	Buff
1=Exc/High; 5=Poor/Low		5	4	3	2	1

Characteristics

Standability						1.5
Emergence						1.5
Stress Tolerance					2.0	

Disease Ratings

Iron Def. Chlorosis			3.0			
Phytophthora Root Rot		-- No Rating --				
Sudden Death Syndrome		-- No Rating --				
White Mold		-- No Rating --				
Stem Canker						1.0
Brown Stem Rot		-- No Rating --				
Frogeye Leaf Spot					2.0	
Soybean Cyst Nematode					2.0	
Root Knot		-- No Rating --				

Herbicide Tolerance & Additional Gene Presence

Sulfonylea	YES	Dicamba	NO
Glyphosate (RR)	YES	2-4D	YES
Glufosinate (LL)	YES	Salt Excluder Gene	NO

430NR2XSE

Outstanding yield history. Strong emergence and standability. Good against SSC, SDS and SCN scores.



Maturity	Plant Type	Plant Height	Flower Color	Pub.	Pod Color	Hilum Color
4.3	Intermed.	MT	Purple	LT	BR	BL
1=Exc/High; 5=Poor/Low		5	4	3	2	1

Characteristics

Standability						1.5
Emergence						1.0
Stress Tolerance					2.0	

Disease Ratings

Iron Def. Chlorosis		-- No Rating --				
Phytophthora Root Rot					2.5	
Sudden Death Syndrome					2.0	
White Mold		-- No Rating --				
Stem Canker						1.5
Brown Stem Rot		-- No Rating --				
Frogeye Leaf Spot					2.0	
Soybean Cyst Nematode						1.5
Root Knot			4.0			

Herbicide Tolerance & Additional Gene Presence

Sulfonylea	YES	Dicamba	YES
Glyphosate (RR)	YES	2-4D	NO
Glufosinate (LL)	NO	Salt Excluder Gene	YES

442XFS

Likes KS and MO regions. Strong yields. Good SDS & FELS scores. SR variety offers rotation flexibility.



Maturity	Plant Type	Plant Height	Flower Color	Pub.	Pod Color	Hilum Color
4.4	Med Bush	T	Purple	Gray	Tan	Buff
1=Exc/High; 5=Poor/Low		5	4	3	2	1

Characteristics

Standability					2.0	
Emergence						1.5
Stress Tolerance					2.0	

Disease Ratings

Iron Def. Chlorosis			4.0			
Phytophthora Root Rot			4.5			
Sudden Death Syndrome					2.0	
White Mold		-- No Rating --				
Stem Canker						1.5
Brown Stem Rot						
Frogeye Leaf Spot					2.5	
Soybean Cyst Nematode						1.5
Root Knot			4.0			

Herbicide Tolerance & Additional Gene Presence

Sulfonylea	YES	Dicamba	YES
Glyphosate (RR)	YES	2-4D	NO
Glufosinate (LL)	YES	Salt Excluder Gene	NO

460E3SE

Good yielding medium-bush plants. Works well on clay soils. Nice SR & STS bean with the excluder gene.



Maturity	Plant Type	Plant Height	Flower Color	Pub.	Pod Color	Hilum Color
4.6	Intermed.	MT	Purple	Gray	BR	IB
1=Exc/High; 5=Poor/Low		5	4	3	2	1

Characteristics

Standability					2.5	
Emergence						1.5
Stress Tolerance					2.5	

Disease Ratings

Iron Def. Chlorosis		-- No Rating --				
Phytophthora Root Rot				3.0		
Sudden Death Syndrome					2.0	
White Mold		-- No Rating --				
Stem Canker						1.5
Brown Stem Rot		-- No Rating --				
Frogeye Leaf Spot					2.5	
Soybean Cyst Nematode					2.0	
Root Knot			4.0			

Herbicide Tolerance & Additional Gene Presence

Sulfonylea	YES	Dicamba	NO
Glyphosate (RR)	YES	2-4D	YES
Glufosinate (LL)	YES	Salt Excluder Gene	YES

461XFS



High yielding bean with good southern movement. Works on mixed or heavy soils, no-till & narrow rows.

Maturity	Plant Type	Plant Height	Flower Color	Pub.	Pod Color	Hilum Color
4.6	Med Bush	T	Purple	LT	BR	BL
1=Exc/High; 5=Poor/Low		5	4	3	2	1
Characteristics						
Standability				3.5		
Emergence						1.5
Stress Tolerance					2.0	
Disease Ratings						
Iron Def. Chlorosis		-- No Rating --				
Phytophthora Root Rot		Rps 1c		3.5		
Sudden Death Syndrome				3.0		
White Mold		-- No Rating --				
Stem Canker						1.5
Brown Stem Rot		-- No Rating --				
Frogeye Leaf Spot		-- No Rating --				
Soybean Cyst Nematode					2.0	
Root Knot			4.0			

Herbicide Tolerance & Additional Gene Presence

Sulfonyleurea	YES	Dicamba	YES
Glyphosate (RR)	YES	2-4D	NO
Glufosinate (LL)	YES	Salt Excluder Gene	NO

4623XFSE



Very good in central/southern KS & southern MO. Good PRR, SCN & STC scores. SR bean with the excluder.



Maturity	Plant Type	Plant Height	Flower Color	Pub.	Pod Color	Hilum Color
4.6	Med Bush	T	Purple	Gray	BR	IB
1=Exc/High; 5=Poor/Low		5	4	3	2	1
Characteristics						
Standability					2.5	
Emergence						1.0
Stress Tolerance					2.0	
Disease Ratings						
Iron Def. Chlorosis		-- No Rating --				
Phytophthora Root Rot		Rps 1c			2.5	
Sudden Death Syndrome				3.5		
White Mold		-- No Rating --				
Stem Canker						1.5
Brown Stem Rot		-- No Rating --				
Frogeye Leaf Spot			4.0			
Soybean Cyst Nematode						1.5
Root Knot			4.5			

Herbicide Tolerance & Additional Gene Presence

Sulfonyleurea	YES	Dicamba	YES
Glyphosate (RR)	YES	2-4D	NO
Glufosinate (LL)	YES	Salt Excluder Gene	YES

482E3S



Uniform plants produce high yields on all soil types. Good defensive bean. Narrow rows & no-till works.

Maturity	Plant Type	Plant Height	Flower Color	Pub.	Pod Color	Hilum Color
4.8	Intermed.	MT	Purple	Gray	Tan	Buff
1=Exc/High; 5=Poor/Low		5	4	3	2	1
Characteristics						
Standability					2.5	
Emergence						1.0
Stress Tolerance					2.0	
Disease Ratings						
Iron Def. Chlorosis		-- No Rating --				
Phytophthora Root Rot		Rps 1k			2.5	
Sudden Death Syndrome				3.5		
White Mold		-- No Rating --				
Stem Canker						1.5
Brown Stem Rot		-- No Rating --				
Frogeye Leaf Spot			4.0			
Soybean Cyst Nematode						1.5
Root Knot		-- No Rating --				

Herbicide Tolerance & Additional Gene Presence

Sulfonyleurea	YES	Dicamba	NO
Glyphosate (RR)	YES	2-4D	YES
Glufosinate (LL)	YES	Salt Excluder Gene	NO

492XFS



Great southern bean comes stacked with very good SDS, SCN, SRK, STS scores. Nice w/ no-till & narrow rows.


Maturity	Plant Type	Plant Height	Flower Color	Pub.	Pod Color	Hilum Color
4.9	Med Bush	T	Purple	LT	Tan	BL
1=Exc/High; 5=Poor/Low		5	4	3	2	1
Characteristics						
Standability					2.0	
Emergence						1.0
Stress Tolerance					2.0	
Disease Ratings						
Iron Def. Chlorosis				3.5		
Phytophthora Root Rot				3.0		
Sudden Death Syndrome					2.5	
White Mold		-- No Rating --				
Stem Canker						1.5
Brown Stem Rot		-- No Rating --				
Frogeye Leaf Spot				3.5		
Soybean Cyst Nematode						1.5
Root Knot			4.0			

Herbicide Tolerance & Additional Gene Presence

Sulfonyleurea	YES	Dicamba	YES
Glyphosate (RR)	YES	2-4D	NO
Glufosinate (LL)	YES	Salt Excluder Gene	NO

Phillips Seed Farms Soybean Variety Ratings



			NEW	NEW	NEW		NEW	NEW	NEW		NEW						NEW				
Soybean Variety Ratings		240E3	2763E3	2833XF	2903XF	322E3	3313XF	3483E3S	361E3	3863XFE	402E3	4003XFSE	408NR2XS	420E3S	430NR2XSE	442XFS	460E3SE	461XFS	4623XFSE	482E3S	492XFS
Characteristics	Trait Type	E3	E3	XF	XF	E3	XF	E3	E3	XF	E3	XF	R2X	E3	R2X	XF	E3	XF	XF	E3	XF
	Maturity	2.4	2.7	2.8	2.9	3.2	3.3	3.4	3.6	3.8	4.0	4.0	4.0	4.2	4.3	4.4	4.6	4.6	4.6	4.8	4.9
	Flower Color	P	P	P	P	P	P	P	P	W	W	P	P	W	P	P	P	P	P	P	P
	Pubescence	G	G	G	G	G	G	G	G	G	LT	G	LT	G	LT	G	G	LT	G	G	LT
	Pod Color	T	BR	BL	BL	T	BR	T	T	BR	BR	BR	T	BR	BR	T	BR	BR	BR	T	T
	Hilum Color	BF	BF	IB	IB	IB	IB	BF	IB	BF	BR	IB	BL	BF	BL	BF	IB	BL	IB	BF	BL
	Plant Type	M	M	MB	MB	M	MB	M	MB	MB	MB	MB	M	M	M	MB	M	MB	MB	M	MB
	Plant Height	MT	MT	MT	MT	M+	MT	MT	MT	T	MT	MT	MT	M	MT	T	MT	T	T	MT	T
	Standability	2.5	2.5	2.5	2.0	2.5	2.0	2.0	2.5	2.5	2.5	2.5	1.5	1.5	1.5	2.0	2.5	3.5	2.5	2.5	2.0
	Emergence	2.0	2.0	1.0	1.5	1.5	1.5	1.5	2.0	1.5	1.0	1.5	1.5	1.5	1.0	1.5	1.5	1.5	1.0	1.0	1.0
	Stress Tolerance	2.5	2.5	2.0	1.5	1.5	1.5	2.0	1.0	2.0	2.0	2.5	2.0	2.0	2.0	2.0	2.5	2.0	2.0	2.0	2.0
Disease Ratings	Iron Def. Chlor.	3.5	3.0	4.0	3.0	2.5	2.0	2.5	2.0	3.5	2.5	3.0	NR	3.0	NR	4.0	NR	NR	NR	NR	3.5
	PRR Tolerance	2.0	2.5	3.5	2.5	2.0	3.0	2.0	2.0	3.5	2.5	3.0	2.0	NR	2.5	4.5	3.0	3.5	2.5	2.5	3.0
	SDS	2.0	3.5	2.0	3.5	2.5	3.5	2.0	2.5	3.5	2.5	2.5	2.0	NR	2.0	2.0	2.0	3.0	3.5	3.5	2.5
	White Mold	2.0	3.5	3.5	3.0	NR	2.5	NR	NR	4.0	NR	3.5	NR	NR	NR	NR	NR	NR	NR	NR	NR
	Stem Canker	1.0	2.0	NR	NR	2.0	2.0	2.0	1.0	4.5	2.0	2.0	4.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	Brown Stem Rot	NR	NR	2.0	NR	NR	2.0	2.0	1.0	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	Frogeye Leaf Spot	NR	NR	NR	NR	2.5	NR	2.5	3.5	4.5	1.5	3.5	3.0	2.0	2.0	2.5	2.5	NR	4.0	4.0	3.5
	SCN Tolerance	2.5	2.5	2.0	NR	2.0	2.0	2.0	2.0	2.0	2.0	2.0	NR	2.0	1.5	1.5	2.0	2.0	1.5	1.5	1.5
	Root Knot	NR	NR	NR	NR	NR	NR	NR	NR	4.0	NR	NR	4.0	NR	4.0	4.0	4.0	4.0	4.5	NR	4.0
	Cerespora	NR	NR	NR	NR	NR	NR	NR	NR	NR	1.5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	Charcoal Rot	NR	2.5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Herbicide Ratings	Sulfonylurea	N	N	N	N	N	N	Y	N	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Glyphosate (RR)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Glufosinate (LL)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Dicamba	N	N	Y	Y	N	Y	N	N	Y	N	Y	Y	N	Y	Y	N	Y	Y	N	Y
	2-4D	Y	Y	N	N	Y	N	Y	Y	N	Y	N	N	Y	N	N	Y	N	N	Y	N
+ Salt Excluder Gene		N	N	N	N	N	N	N	N	Y	N	Y	N	N	Y	N	Y	N	N	N	N

408NR2XS pic taken in Southeast Nebraska



442XFS pic taken in Central Kansas



Phillips Seed Farms High Yielding, SCA Tolerant Grain Sorghum Hybrids



◀ 530

- 53 days to mid-bloom
- Excellent double crop or late season planting option



5883C ▶

- 58 days to mid-bloom
- Good double crop or late season planting option
- Cream grain color



◀ 6033B

- 60 days to mid-bloom
- Excellent late season planting option
- Potential for double crop

637 ▶

- 63 days to mid-bloom
- Good all-purpose option
- Best on moderate to good soils



◀ 6423B



- 64 days to mid-bloom
- Good all-around hybrid
- Works on dryland, tough ground, and better soils

6711R ▶

- 66-67 days to mid-bloom
- Excellent top end yields
- Best on irrigated or top soils



530

Good yields for early hybrid. Excellent double crop or late season planting option.

Days to Mid-Bloom	Maturity Class.	Phys. Maturity	Grain Color	Plant Height	Head Type
53	Early	95-99	Red	36-42	SO
1=Exc/High; 5=Poor/Low	5	4	3	2	1
<i>Characteristics</i>					
Yield For Maturity					1
Highly Productive Fields					1
Moderate/Variable Fields					1
Low Prod./Stress Fields				2	
Stress Tolerance				2	
Threshability					1
Standability				2	
Seedling Vigor				2	
Head Exertion					1
Uniformity				2	
<i>Disease Ratings</i>					
Anthraco					1
Charcoal Rot		-- No Rating --			
Downey Mildew		-- No Rating --			
Head Smut			3		
MDMV			3		
Fusarium			3		
Sugarcane Aphid				2	

6033B

Widely adaptable. Works on dryland or irrigation. Double crop option in the south.

Days to Mid-Bloom	Maturity Class.	Phys. Maturity	Grain Color	Plant Height	Head Type
60	Med-Early	100-105	Bronze	40-46	Open
1=Exc/High; 5=Poor/Low	5	4	3	2	1
<i>Characteristics</i>					
Yield For Maturity					1
Highly Productive Fields					1
Moderate/Variable Fields					1
Low Prod./Stress Fields					1
Stress Tolerance					1
Threshability				2	
Standability					1
Seedling Vigor				2	
Head Exertion					1
Uniformity					1
<i>Disease Ratings</i>					
Anthraco				2	
Charcoal Rot				2	
Downey Mildew				2	
Head Smut				2	
MDMV		-- No Rating --			
Fusarium				2	
Sugarcane Aphid				2	

5883C

Very good on dryland and high pH soils. Okay on full irrigation. Potential for food grade.



Days to Mid-Bloom	Maturity Class.	Phys. Maturity	Grain Color	Plant Height	Head Type
58	Early	98-102	Cream	38-44	SO
1=Exc/High; 5=Poor/Low	5	4	3	2	1
<i>Characteristics</i>					
Yield For Maturity					1
Highly Productive Fields				2	
Moderate/Variable Fields					1
Low Prod./Stress Fields					1
Stress Tolerance					1
Threshability					1
Standability					1
Seedling Vigor				2	
Head Exertion					1
Uniformity					1
<i>Disease Ratings</i>					
Anthraco				2	
Charcoal Rot		-- No Rating --			
Downey Mildew			3		
Head Smut			3		
MDMV		-- No Rating --			
Fusarium		-- No Rating --			
Sugarcane Aphid					1

637

Good multi-year yield history. Very good in most situations, but avoid extreme stress/drought fields.

Days to Mid-Bloom	Maturity Class.	Phys. Maturity	Grain Color	Plant Height	Head Type
63	Medium	105-108	Bronze	38-44	SO
1=Exc/High; 5=Poor/Low	5	4	3	2	1
<i>Characteristics</i>					
Yield For Maturity					1
Highly Productive Fields					1
Moderate/Variable Fields					1
Low Prod./Stress Fields				2	
Stress Tolerance				2	
Threshability					1
Standability					1
Seedling Vigor					1
Head Exertion				2	
Uniformity					1
<i>Disease Ratings</i>					
Anthraco		-- No Rating --			
Charcoal Rot			3		
Downey Mildew			4		
Head Smut				3	
MDMV				3	
Fusarium		-- No Rating --			
Sugarcane Aphid					1

**6423B**

Very good all-around adaptability. Yields well on tough dryland acres, but good under irrigation too.



Days to Mid-Bloom	Maturity Class.	Phys. Maturity	Grain Color	Plant Height	Head Type	
64	Medium	107-111	Bronze	42-48	SO	
1=Exc/High; 5=Poor/Low		5	4	3	2	1
<i>Characteristics</i>						
Yield For Maturity						1
Highly Productive Fields						1
Moderate/Variable Fields						1
Low Prod./Stress Fields						1
Stress Tolerance					2	
Threshability					2	
Standability					2	
Seedling Vigor				3		
Head Exertion					2	
Uniformity					2	
<i>Disease Ratings</i>						
Anthracnose				3		
Charcoal Rot		-- No Rating --				
Downey Mildew						1
Head Smut				3		
MDMV		-- No Rating --				
Fusarium		-- No Rating --				
Sugarcane Aphid					2	

**6711R**

Best performance on top soils and irrigation. Has top end yield and excellent SCA tolerance.

Days to Mid-Bloom	Maturity Class.	Phys. Maturity	Grain Color	Plant Height	Head Type	
67	Med-Late	110-114	Red	46-54	SC	
1=Exc/High; 5=Poor/Low		5	4	3	2	1
<i>Characteristics</i>						
Yield For Maturity						1
Highly Productive Fields						1
Moderate/Variable Fields					2	
Low Prod./Stress Fields					2	
Stress Tolerance				3		
Threshability					2	
Standability					2	
Seedling Vigor				3		
Head Exertion				3		
Uniformity					2	
<i>Disease Ratings</i>						
Anthracnose		-- No Rating --				
Charcoal Rot		-- No Rating --				
Downey Mildew				3		
Head Smut						1
MDMV						1
Fusarium		-- No Rating --				
Sugarcane Aphid						1



530 picture taken at a Central Kansas dryland field in SEP 2021









We remember our good friend and dealer, Philip Nelson. You are missed by many.

Phillips Seed Farms Wheat Varieties & Blends



Phillips Seed Farms is your quality, full-service wheat resource.

For those of you within a reasonable distance to a Phillips Seed Farms facility, we have KCIA-approved, custom wheat cleaning and treating. If these services are of interest to you, be sure to set an appointment to get on the list.

Source \ Maturity	Medium - Early	Medium	Medium - Late
	AG ICON	TAM205 AG RADICAL	
	WB4269	WB4401 WB4422 WB4523	WB4699 WB-GRAINFIELD
	AP BIGFOOT AP EVERROCK SY WOLVERINE	AP18 AX BOB DOLE AP PROLIFIC	SY MONUMENT
	ZENDA		KS AHEARN
	<p>Note: DOUBLESTOP CL Plus is a two-gene Clearfield® variety that allows for better control of feral rye and jointed goat grass. This system is not to be confused with the CoAXium wheat system. Please read these labels carefully. Misapplication of the incorrect herbicide can cause severe crop damage or loss.</p>		DOUBLESTOP CL Plus
	LCS ATOMIC AX	<p>Note: LCS ATOMIC AX and AP18AX are CoAXium® varieties, which allows for direct application of Aggressor® brand herbicide, a better system for control of Bromus species, feral rye, jointed goat grass, wild oats and other volunteer cereals. Aggressor herbicide cannot be applied to Clearfield varieties, nor can Clearfield (Imi-based herbicide) be applied to CoAXium varieties.</p>	

Note: Varieties in **BLUE** are **CSO (Certified Seed Only)**. The two CSO symbols used in following pages are:



Harvesting WB4401 in Central Kansas



Wrapping up another successful wheat harvest

Phillips Seed Farms Wheat Varieties: AP18AX, Bob Dole, SY Wolverine & SY Monument

AP18AX

Maturity: Medium

CoAXium® Technology

Aggressor® herbicide tolerant

AgriPro



Ratings Key: 1 = Exc; 5 = Poor

Agronomics	5	4	3	2	1
Drought Tolerance				2	
Yield Potential					1
Straw Strength			3		
Test Weight				2	
Fall Grazing Potential				2	
Winter Hardiness				2	
Tillering				2	
Shattering Reputation					1
Acid Soil Tolerance		4			
Disease & Pest Ratings					
Leaf Rust			3		
Stripe Rust					1
Stem Rust				2	
Scab (FHB)			3		
Barley Yellow Dwarf			3		
Hessian Fly			3		
Tan Spot				2	
Wheat Streak Mosaic				2	
Soil Borne Mosaic		-- No Rating --			

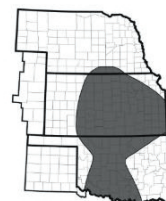
Bob Dole

Maturity: Medium

Good in Central Corridor

Good end use qualities

AgriPro



Ratings Key: 1 = Exc; 5 = Poor

Agronomics	5	4	3	2	1
Drought Tolerance			3		
Yield Potential				2	
Straw Strength				2	
Test Weight					1
Fall Grazing Potential			3		
Winter Hardiness				2	
Tillering		4			
Shattering Reputation					1
Acid Soil Tolerance					1
Disease & Pest Ratings					
Leaf Rust					1
Stripe Rust					1
Stem Rust				2	
Scab (FHB)			3		
Barley Yellow Dwarf			3		
Hessian Fly		4			
Tan Spot				2	
Wheat Streak Mosaic			3		
Soil Borne Mosaic					1

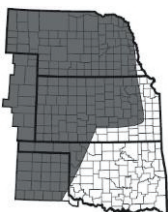
SY Wolverine

Maturity: Medium-Early

Very good yields & straw strength

Good wheat streak tolerance

AgriPro



Ratings Key: 1 = Exc; 5 = Poor

Agronomics	5	4	3	2	1
Drought Tolerance			3		
Yield Potential					1
Straw Strength					1
Test Weight					1
Fall Grazing Potential			3		
Winter Hardiness				2	
Tillering			3		
Shattering Reputation					1
Acid Soil Tolerance		4			
Disease & Pest Ratings					
Leaf Rust					1
Stripe Rust			3		
Stem Rust					1
Scab (FHB)		4			
Barley Yellow Dwarf				2	
Hessian Fly		4			
Tan Spot				2	
Wheat Streak Mosaic				2	
Soil Borne Mosaic					1

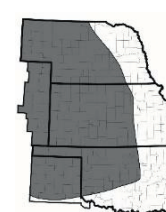
SY Monument

Maturity: Medium-Late

Widely used, all-around choice

Very good following soybeans

AgriPro

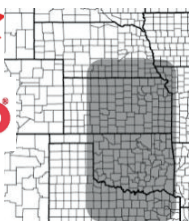


Ratings Key: 1 = Exc; 5 = Poor

Agronomics	5	4	3	2	1
Drought Tolerance				2	
Yield Potential					1
Straw Strength			3		
Test Weight				2	
Fall Grazing Potential			3		
Winter Hardiness					1
Tillering				2	
Shattering Reputation					1
Acid Soil Tolerance					1
Disease & Pest Ratings					
Leaf Rust					1
Stripe Rust				2	
Stem Rust					1
Scab (FHB)			3		
Barley Yellow Dwarf				2	
Hessian Fly		4			
Tan Spot				2	
Wheat Streak Mosaic		4			
Soil Borne Mosaic					1

Phillips Seed Farms Wheat Varieties: AP Prolific, AP Bigfoot, AP EverRock & DoubleStop CL Plus

AP Prolific



Maturity: Medium

Very good for Central Corridor

High tillering & FHB tolerance

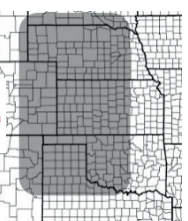
Ratings Key: 1 = Exc; 5 = Poor

Agronomics	5	4	3	2	1
Drought Tolerance				2	
Yield Potential					1
Straw Strength			3		
Test Weight					1
Fall Grazing Potential				2	
Winter Hardiness			3		
Tillering					1
Shattering Reputation				2	
Acid Soil Tolerance				2	

Disease & Pest Ratings

Leaf Rust					1
Stripe Rust					1
Stem Rust			3		
Scab (FHB)				2	
Barley Yellow Dwarf				2	
Hessian Fly			3		
Tan Spot			3		
Wheat Streak Mosaic			3		
Soil Borne Mosaic					1

AP Bigfoot



Maturity: Medium-Early

Solid yields & test weight

Low pH & Stripe Rust tolerance

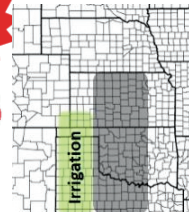
Ratings Key: 1 = Exc; 5 = Poor

Agronomics	5	4	3	2	1
Drought Tolerance					1
Yield Potential					1
Straw Strength				2	
Test Weight					1
Fall Grazing Potential				2	
Winter Hardiness				2	
Tillering				2	
Shattering Reputation				2	
Acid Soil Tolerance			3		

Disease & Pest Ratings

Leaf Rust				2	
Stripe Rust				2	
Stem Rust				2	
Scab (FHB)			3		
Barley Yellow Dwarf			3		
Hessian Fly		4			
Tan Spot				2	
Wheat Streak Mosaic			3		
Soil Borne Mosaic			3		

AP EverRock



Maturity: Medium-Early

Good in Central region trials

Great forage potential

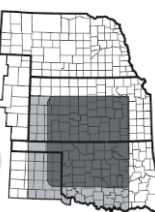
Ratings Key: 1 = Exc; 5 = Poor

Agronomics	5	4	3	2	1
Drought Tolerance				2	
Yield Potential					1
Straw Strength					1
Test Weight				2	
Fall Grazing Potential					1
Winter Hardiness				2	
Tillering					1
Shattering Reputation				2	
Acid Soil Tolerance				2	

Disease & Pest Ratings

Leaf Rust					1
Stripe Rust				2	
Stem Rust				2	
Scab (FHB)			3		
Barley Yellow Dwarf			3		
Hessian Fly		4			
Tan Spot		4			
Wheat Streak Mosaic			3		
Soil Borne Mosaic					1

DOUBLESTOP CL



Maturity: Medium-Early

Excellent test weight & protein

Two-gene Clearfield® Technology

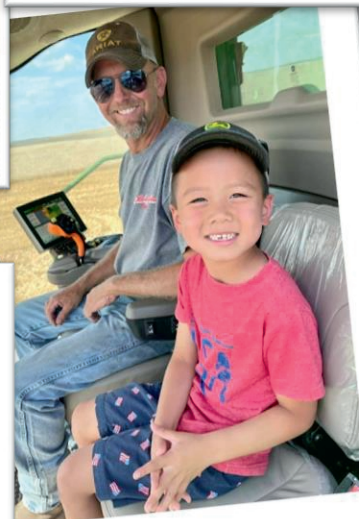
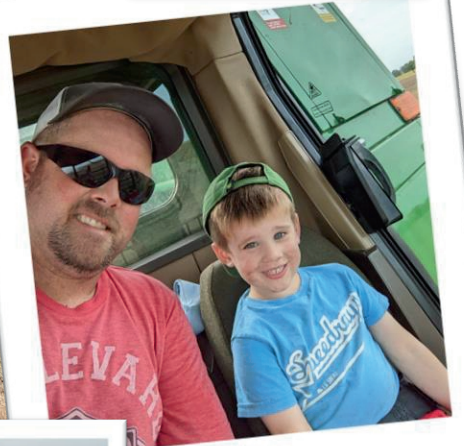
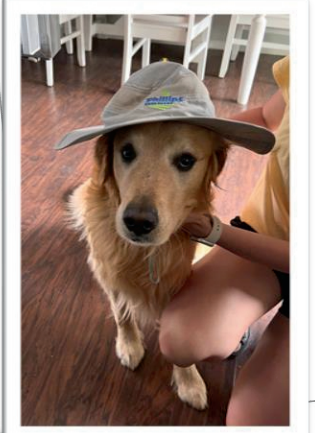
Ratings Key: 1 = Exc; 5 = Poor

Agronomics	5	4	3	2	1
Drought Tolerance				2	
Yield Potential					1
Straw Strength				2	
Test Weight					1
Fall Grazing Potential					1
Winter Hardiness				2	
Tillering				2	
Shattering Reputation				2	
Acid Soil Tolerance					1

Disease & Pest Ratings

Leaf Rust				2	
Stripe Rust				2	
Stem Rust					1
Scab (FHB)	5				
Barley Yellow Dwarf		4			
Hessian Fly				2	
Tan Spot			3		
Wheat Streak Mosaic				2	
Soil Borne Mosaic					1

The Phillips Seed Farms Extended Family



Your families are great! Thanks for being part of ours, too!



Phillips Seed Farms Wheat Varieties: AG Radical & WB4269

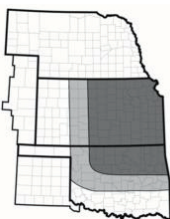
AG Radical

Maturity: Medium-Early

OK following irrigated corn

Good on acid (lower pH) soils

Ratings Key: 1 = Exc; 5 = Poor



Agronomics	5	4	3	2	1
Drought Tolerance			3		
Yield Potential				2	
Straw Strength					1
Test Weight				2	
Fall Grazing Potential			3		
Winter Hardiness					1
Tillering			3		
Shattering Reputation			3		
Acid Soil Tolerance					1
Disease & Pest Ratings					
Leaf Rust				2	
Stripe Rust		4			
Stem Rust	5				
Scab (FHB)				2	
Barley Yellow Dwarf	-- No Rating --				
Hessian Fly			3		
Tan Spot			3		
Wheat Streak Mosaic	-- No Rating --				
Soil Borne Mosaic				2	

WB4269

Maturity: Medium-Early

Very good yield and test weight

Good FHB & Stripe Rust Ratings

Ratings Key: 1 = Exc; 5 = Poor



Agronomics	5	4	3	2	1
Drought Tolerance			3		
Yield Potential					1
Straw Strength				2	
Test Weight				2	
Fall Grazing Potential			3		
Winter Hardiness				2	
Tillering				2	
Shattering Reputation			3		
Acid Soil Tolerance			3		
Disease & Pest Ratings					
Leaf Rust					1
Stripe Rust					1
Stem Rust				2	
Scab (FHB)				2	
Barley Yellow Dwarf			3		
Hessian Fly		4			
Tan Spot		4			
Wheat Streak Mosaic	5				
Soil Borne Mosaic				2	



KS AHEARN – MAY 2022



Wrapping up SY Wolverine Harvest



WB4401 pic taken in research plot – MAY 2022

Phillips Seed Farms Wheat Varieties: WB4401, WB4422, WB4523 & WB4699

WB4401

Maturity: Medium-Early

Excellent yield potential

Excellent milling/baking quality & protein content

Ratings Key: 1 = Exc; 5 = Poor



Agronomics	5	4	3	2	1
Drought Tolerance			3		
Yield Potential					1
Straw Strength				2	
Test Weight				2	
Fall Grazing Potential					1
Winter Hardiness				2	
Tillering					1
Shattering Reputation			3		
Acid Soil Tolerance				2	
Disease & Pest Ratings					
Leaf Rust			3		
Stripe Rust				2	
Stem Rust				2	
Scab (FHB)			3		
Barley Yellow Dwarf			3		
Hessian Fly			3		
Tan Spot			3		
Wheat Streak Mosaic		4			
Soil Borne Mosaic					1

WB4422

Maturity: Medium

Excellent yield potential

Excellent Leaf Rust & Soil-Borne Mosaic ratings

Ratings Key: 1 = Exc; 5 = Poor



Agronomics	5	4	3	2	1
Drought Tolerance			3		
Yield Potential					1
Straw Strength				2	
Test Weight					1
Fall Grazing Potential				2	
Winter Hardiness					1
Tillering				2	
Shattering Reputation				2	
Acid Soil Tolerance			3		
Disease & Pest Ratings					
Leaf Rust					1
Stripe Rust	5				
Stem Rust		4			
Scab (FHB)		4			
Barley Yellow Dwarf			3		
Hessian Fly		-- No Rating --			
Tan Spot		-- No Rating --			
Wheat Streak Mosaic		4			
Soil Borne Mosaic					1

WB4523

Maturity: Medium-Early

Very good yield & standability

Excellent milling/baking quality & Stripe Rust ratings

Ratings Key: 1 = Exc; 5 = Poor



Agronomics	5	4	3	2	1
Drought Tolerance				2	
Yield Potential					1
Straw Strength			3		
Test Weight			3		
Fall Grazing Potential			3		
Winter Hardiness			3		
Tillering				2	
Shattering Reputation			3		
Acid Soil Tolerance				2	
Disease & Pest Ratings					
Leaf Rust			3		
Stripe Rust					1
Stem Rust			3		
Scab (FHB)			3		
Barley Yellow Dwarf	-- No Rating --				
Hessian Fly	5				
Tan Spot					1
Wheat Streak Mosaic		4			
Soil Borne Mosaic				2	

WB4699

Maturity: Medium-Early

Very good yield potential

Good FHB & Soil Borne Mosaic Ratings

Ratings Key: 1 = Exc; 5 = Poor



Agronomics	5	4	3	2	1
Drought Tolerance		4			
Yield Potential					1
Straw Strength					1
Test Weight			3		
Fall Grazing Potential			3		
Winter Hardiness				2	
Tillering					1
Shattering Reputation					1
Acid Soil Tolerance					1
Disease & Pest Ratings					
Leaf Rust				2	
Stripe Rust		4			
Stem Rust		-- No Rating --			
Scab (FHB)				2	
Barley Yellow Dwarf				2	
Hessian Fly			3		
Tan Spot				2	
Wheat Streak Mosaic			3		
Soil Borne Mosaic				2	

Phillips Seed Farms Wheat Varieties: WB Grainfield, ZENDA, KS Ahearn & LCS Atomic AX

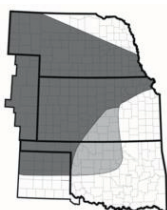
WB GRAINFIELD

Maturity: Medium-Late

Consistent yield history

Good choice following soybeans

Ratings Key: 1 = Exc; 5 = Poor



Agronomics	5	4	3	2	1
Drought Tolerance				2	
Yield Potential					1
Straw Strength				2	
Test Weight					1
Fall Grazing Potential			3		
Winter Hardiness				2	
Tillering				2	
Shattering Reputation			3		
Acid Soil Tolerance			3		
Disease & Pest Ratings					
Leaf Rust		4			
Stripe Rust	5				
Stem Rust				2	
Scab (FHB)			3		
Barley Yellow Dwarf		4			
Hessian Fly	5				
Tan Spot			3		
Wheat Streak Mosaic	5				
Soil Borne Mosaic					1

ZENDA

Maturity: Medium-Early

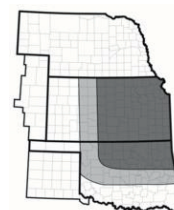
Works on acid soils

Good Stem Rust & SBM ratings

Ratings Key: 1 = Exc; 5 = Poor



WHEAT ALLIANCE



Agronomics	5	4	3	2	1
Drought Tolerance			3		
Yield Potential				2	
Straw Strength					1
Test Weight				2	
Fall Grazing Potential				2	
Winter Hardiness				2	
Tillering			3		
Shattering Reputation			3		
Acid Soil Tolerance				2	
Disease & Pest Ratings					
Leaf Rust				2	
Stripe Rust			3		
Stem Rust					1
Scab (FHB)				2	
Barley Yellow Dwarf			3		
Hessian Fly			3		
Tan Spot			3		
Wheat Streak Mosaic		4			
Soil Borne Mosaic					1

KS AHEARN

Maturity: Medium-Late

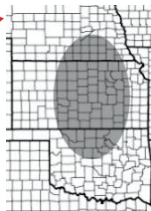
Excellent yields & straw strength

Good resistance to rust diseases

Ratings Key: 1 = Exc; 5 = Poor



WHEAT ALLIANCE



Agronomics	5	4	3	2	1
Drought Tolerance			3		
Yield Potential					1
Straw Strength			3		
Test Weight			3		
Fall Grazing Potential			3		
Winter Hardiness				2	
Tillering			3		
Shattering Reputation			3		
Acid Soil Tolerance			3		
Disease & Pest Ratings					
Leaf Rust				2	
Stripe Rust				2	
Stem Rust				2	
Scab (FHB)		4			
Barley Yellow Dwarf		4			
Hessian Fly	5				
Tan Spot			3		
Wheat Streak Mosaic		4			
Soil Borne Mosaic					1

LCS ATOMIC AX

Maturity: Medium-Early

Very good yield record

Good FHB & Soil Borne Mosaic Ratings

Ratings Key: 1 = Exc; 5 = Poor



Agronomics	5	4	3	2	1
Drought Tolerance					1
Yield Potential					1
Straw Strength					1
Test Weight			3		
Fall Grazing Potential					1
Winter Hardiness				2	
Tillering			3		
Shattering Reputation				2	
Acid Soil Tolerance				2	
Disease & Pest Ratings					
Leaf Rust				2	
Stripe Rust					1
Stem Rust	5				
Scab (FHB)			3		
Barley Yellow Dwarf	5				
Hessian Fly	5				
Tan Spot			3		
Wheat Streak Mosaic	5				
Soil Borne Mosaic					1



Corn Burner II Blend: Good choice following corn

Corn Burner II Component - Varieties	WB4269	AG RADICAL	ZENDA
Maturity	Medium-Early	Medium	Medium-Early
Fall Grazing Potential	Good	Good	Very Good
Winter Hardiness	Very Good	Excellent	Very Good
Tillering	Very Good	Good	Good
Acid Soil Tolerance	Good	Excellent	Very Good
Leaf Rust	Excellent	Very Good	Very Good
Scab (FHB)	Very Good	Very Good	Very Good
Barley Yellow Dwarf	Good	NR	Good
Wheat Streak Mosaic	Susceptible	NR	Moderately Susceptible
Soil Borne Mosaic	Very Good	Very Good	Excellent

Regulator V Blend: Good choice following soybeans or



Regulator V Component - Varieties	WB4401	AP Bigfoot	WB4699
Maturity	Medium	Medium-Early	Medium-Late
Fall Grazing Potential	Excellent	Very Good	Good
Winter Hardiness	Very Good	Very Good	Very Good
Tillering	Excellent	Very Good	Excellent
Acid Soil Tolerance	Very Good	Good	Excellent
Leaf Rust	Good	Very Good	Very Good
Scab (FHB)	Good	Good	Very Good
Barley Yellow Dwarf	Good	Good	Very Good
Wheat Streak Mosaic	Moderately Susceptible	Good	Moderately Susceptible
Soil Borne Mosaic	Excellent	Good	Very Good

Outlaw II Blend: Good choice following soybeans



Outlaw II Component - Varieties	AP Wolverine	WB4401	KS Ahearn
Maturity	Medium-Early	Medium	Medium-Late
Fall Grazing Potential	Good	Excellent	Good
Winter Hardiness	Very Good	Very Good	Very Good
Tillering	Good	Excellent	Good
Acid Soil Tolerance	Moderately Susceptible	Very Good	Good
Leaf Rust	Excellent	Good	Very Good
Scab (FHB)	Moderately Susceptible	Good	Moderately Susceptible
Barley Yellow Dwarf	Very Good	Good	Moderately Susceptible
Wheat Streak Mosaic	Very Good	Moderately Susceptible	Moderately Susceptible
Soil Borne Mosaic	Excellent	Excellent	Excellent

Phillips Seed Farms Wheat Variety Ratings

Hard Red Winter Wheat VARIETIES ► and RATINGS ▼	AP18AX	Bob Dole	SY Monument	SY Wolverine	AP Bigfoot	AP Prolific	AP EverRock	DoubleStop CL Plus	AG ICON	TAM205	AG Radical	WB4269	WB4401	WB4422	WB4523	WB4699	WB Grainfield	Zenda	KS Ahearn	LCS Atomic AX
AGRONOMICS																				
Maturity	M	M	ML	ME	ME	M	ME	ML	ME	M	M	ME	M	M	M	ML	ML	ME	ML	ME
Height	M	T	M	MS	M	M	M	T	M	M	MT	MS	M	MT	MS	S	MT	MT	M	M
Drought Tolerance	2	3	2	3	1	2	2	2	3	1	3	3	3	3	2	4	2	3	3	1
Yield Potential	1	2	1	1	1	1	1	1	2	2	2	1	1	1	1	1	1	2	1	1
Straw Strength	3	2	3	1	2	3	1	2	1	2	1	2	2	2	3	1	2	1	3	1
Test Weight	2	1	2	1	1	1	2	1	4	1	2	2	2	1	3	3	1	2	3	3
Fall Grazing Potential	2	3	3	3	2	2	1	1	2	1	3	3	1	2	3	3	3	2	3	1
Winter Hardiness	2	2	1	2	2	3	2	2	2	3	1	2	2	1	3	2	2	2	2	2
Tillering	2	4	2	3	2	1	1	2	2	2	3	2	1	2	2	1	2	3	3	3
Shattering Reputation	1	1	1	1	2	2	2	2	3	2	3	3	3	2	3	1	3	3	3	2
Acid Soil Tolerance	4	1	1	4	3	2	2	1	1	3	1	3	2	3	2	1	3	2	3	2
DISEASE/PEST																				
Leaf Rust	3	1	1	1	2	1	1	2	1	1	2	1	3	1	3	2	4	2	2	2
Stripe Rust	1	1	2	3	2	1	2	2	3	1	4	1	2	5	1	4	5	3	2	1
Stem Rust	2	2	1	1	2	3	2	1	1	1	5	2	2	4	3	NR	2	1	2	5
Scab (FHB)	3	3	3	4	3	2	3	5	4	3	2	2	3	4	3	2	3	2	4	3
Barley Yellow Dwarf	3	3	2	2	3	2	3	4	4	2	NR	3	3	3	NR	2	4	3	4	5
Hessian Fly	3	4	4	4	4	3	4	2	4	4	3	4	3	NR	5	3	5	3	5	5
Tan Spot	2	2	2	2	2	3	4	3	3	1	3	4	3	NR	1	2	3	3	3	3
Wheat Streak Mosaic	2	3	4	2	3	3	3	2	4	1	NR	5	4	4	4	3	5	4	4	5
Soil Borne Mosaic	NR	1	1	1	3	1	1	1	1	1	2	2	1	1	2	2	1	1	1	1
MILLING/BAKING																				
Milling Quality	4	2	2	3	3	4	1	1	3	2	3	3	3	2	2	3	3	3	3	4
Baking Quality	4	1	2	3	3	4	3	1	3	2	3	3	3	2	1	3	3	3	3	5
Protein	3	3	3	3	3	3	3	2	NR	NR	3	3	3	2	3	4	3	3	3	3

Ratings: 1 = Excellent or Exceptional; 2 = Very Good or Above Average; 3 = Good or Average; 4 = Below Average; 5 = Poor or Unacceptable

Maturity: ME = Medium-Early; M = Medium; ML = Medium-Late

Height: T = Tall; MT = Medium-Tall; M = Medium; MS = Medium-Short; S = Short



Harvesting WB4401



Phillips Seed Farms Alfalfa Variety Information



Shuttle EQ²

Alfalfa

Premium alfalfa with high yield & quality (RFQ, NDFd & uNDF)
Bred with non-GMO genetics for broad use
Wide 28 - 35 day harvest window
Solid disease protection; 34/35 DRI
Improved tolerance to saline soils & higher pH
Improved forage palatability & digestibility

Agronomic Characteristics

Fall Dormancy: 4.2 | Winter Survival: 1.8

Root Type: TAP

Ratings: 1=Best; 5=Worst	5	4	3	2	1
Recovery After Cutting					1
Crown Placement			3		
Saline Soil Tolerance				2	
Mult-Foliate Expression			3		
Forage Yield					1
Forage Quality					1

Disease Ratings

Bacterial Wilt					1
Fusarium Wilt					1
Verticillium Wilt					1
Anthracnose (Race 1)					1
Phytophthora Root Rot					1
Aphanomyces (Race1)					1
Aphanomyces (Race 2)					1



Shuttle EQ² exhibits excellent canopy, large dark green leaves and strong multifoliate tendencies



Shuttle II

Alfalfa

Solid history of forage yields & quality
Very good multifoliate leaf expression
Very good winterhardiness & persistence scores
Excellent disease ratings (DRI): 34/35
Widely used, but not as strong on high pH & saline soils
Good tonnage potential and quality

Agronomic Characteristics

Fall Dormancy: 4.0 | Winter Survival: 2.0

Root Type: TAP

Ratings: 1=Best; 5=Worst	5	4	3	2	1
Recovery After Cutting				2	
Stand persistence					1
Saline Soil Tolerance		4			
Mult-Foliate Expression				2	
Forage Yield					1
Forage Quality				2	

Disease & Pest Ratings

Bacterial Wilt					1
Fusarium Wilt					1
Verticillium Wilt					1
Anthracnose					1
Phytophthora Root Rot					1
Aphanomyces (Race1)					1
Aphanomyces (Race 2)				2	



Value Plus

Alfalfa

Very good economy blend
Selected specifically for western growing areas
Generally rated at 28 DRI or better
Lower cost option, but no replant is offered for this variety

Agronomic Characteristics

Fall Dormancy: 4.0 | Winter Survival: 2.0

Root Type: TAP

Definitions Key: DRI – Disease Resistance Index; RFQ – Relative Feed Quality; NDFd – Neutral Detergent Fiber Digestibility; uNDF – Undigestible Neutral Detergent Fiber

Alfalfa Replant Policy: Minimum Qualifications to be eligible for Phillips Seed Farms Replant Policy for Shuttle EQ² and Shuttle II alfalfa varieties is as follows:

1. Seeding rate must be a minimum of 15# per acre
2. Minimum field size must be ten (10) acres
3. The field in question must be reported to and inspected by a Phillips Seed Farms Representative within sixty (60) days of planting
4. The accepted planting date ranges are as follows:
 - a. Spring: April – May
 - b. Summer: August – September 15

Note: There is no replant policy available for Value Plus alfalfa

Phillips Seed Farms Forage Information

PSF Forage Sorghum & Sorghum x Sudangrass Hybrids: Cut Systems

TYPE	Conventional	BMR (Brown Mid Rib)	BMR + Dry Stalk	BMR + Brachytic Dwarf	BMR + Brachytic Dwarf + SCA Tolerance
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PSF FORAGE SORGHUM HYBRIDS

Maturity: 85 – 95 Days	Sweet Bal			Sweet Sil BMR 20D	
Maturity: 110 – 115 Days					BMR5515D

PSF SORGHUM X SUDANGRASS HYBRIDS

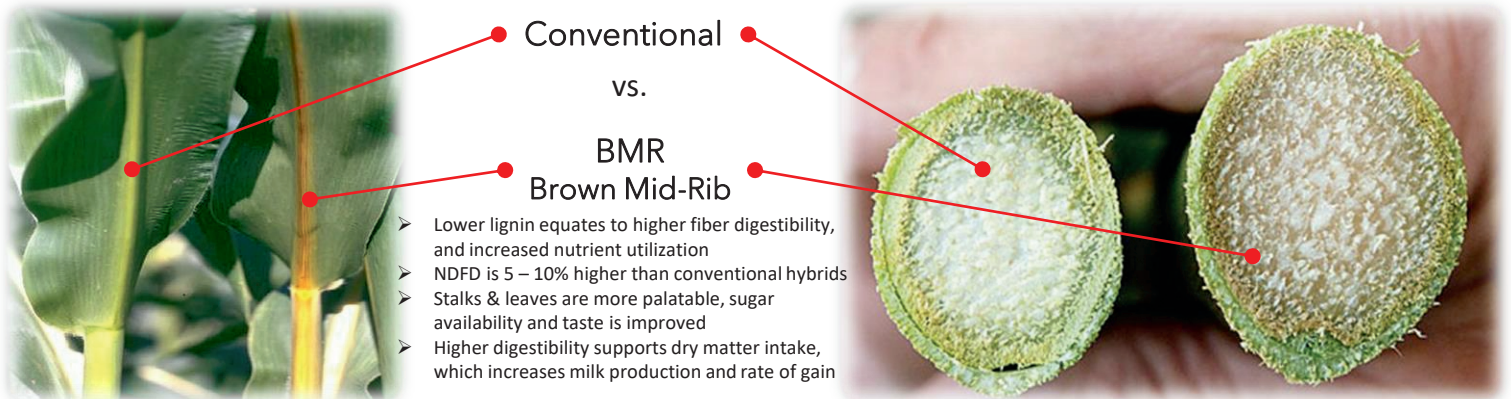
45 – 50 Days to 1st Cutting, 25-30 days to 2 nd cutting, 25- 30 days to 3 rd cutting	Sweet Graz	Sweet Graz BMR15	Sweet Graz BMR Dry Stalk SGBMR4155DS	BMR 68D	
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Lower Cost



Higher Value

Comparing Forage Types: BMR vs. Conventional



General Characteristic Ratings: Increased Agronomy & Nutrition = Increased Value

Type Ratings: 1=Best, 3=Good or Avg, 5=Poor	Conventional	BMR	BMR + Dry Stalk	BMR + Brachytic Dwarf	BMR + Brachytic Dwarf + SCA Tolerance
	Sweet Bal (FS), Sweet Graz (SSG)	Sweet Graz BMR15 (SSG)	Sweet Graz BMR Dry Stalk (SSG), SGBMR4155DS (SSG)	Sweet Sil BMR 20D (FS), BMR 68D (SSG)	BMR5515D (FS)
Standability	3	3	3	2	1
Palatability	1-2	1	1	1	1
Digestibility	2-3	1-2	2-3	1-2	1
Feed Efficiency	3	2-3	2	2	1

Ratings: 1 = Excellent; 2 = Very Good; 3 = Good or Average

Phillips Seed Farms Forage Information

Sweet Bal

Forage Sorghum

Maturity: 90 Days

Plant height 6-7'

Life Cycle: Annual

Single cutting

High yield potential for hay or silage

Agronomics	5	4	3	2	1
Seedling Vigor					1
Ease of Establishment			3		
Uniformity				2	
Drought Tolerance					1
Rotational Grazing			3		
Continuous Grazing			3		
Digestability			3		
Palatability					1
Hay				2	
Single Cut Silage					1

Ratings Key: 1 = Exc; 5 = Poor

* Okay to graze regrowth

Drilled: 15 -25 lb/acre

Planted in Rows: 4 - 8 lb/acre

BMR5515D

Forage Sorghum

Maturity: 110-115 Days

Plant height 6-8'

Life Cycle: Annual

Single Cutting

Sugar Cane Aphid tolerant

High yield potential silage

Agronomics	5	4	3	2	1
Seedling Vigor			3		
Ease of Establishment			3		
Uniformity					1
Drought Tolerance					1
Rotational Grazing	No				
Continuous Grazing	No				
Digestability					1
Palatability					1
Hay		4			
Single Cut Silage					1

Ratings Key: 1 = Exc; 5 = Poor

* Okay to graze regrowth

Drilled: 15 -25 lb/acre

Planted in Rows: 4 - 8 lb/acre

Sweet Sil BMR 20D

Forage Sorghum

Maturity: 85-90 Days

Plant height 6-7'

Life Cycle: Annual

Single cutting

Earliest BMR, brachytic dwarf available

Placement I-70 North to Dakotas

Agronomics	5	4	3	2	1
Seedling Vigor					1
Ease of Establishment				2	
Uniformity				2	
Drought Tolerance					1
Rotational Grazing	No				
Continuous Grazing	No				
Digestability				2	
Palatability					1
Hay		4			
Silage Cut Silage					1

Ratings Key: 1 = Exc; 5 = Poor

* Okay to graze regrowth

Drilled: 15 -25 lb/acre

Planted in Rows: 4 - 8 lb/acre

Sweet Graz

Sorghum x Sudangrass

Maturity: 45-50 Days to 1st Cutting Approx. 1st cutting height 38"

Life Cycle: Annual

Excellent recovery after first cutting

Dependable Summer Forage

Hay, haylage and green chop

Agronomics	5	4	3	2	1
Seedling Vigor					1
Ease of Establishment			3		
Uniformity					1
Drought Tolerance				2	
Rotational Grazing					1
Continuous Grazing			3		
Digestability				2	
Palatability					1
Hay					1
Multi-Cut Silage Potential			3		

Ratings Key: 1 = Exc; 5 = Poor

* Okay to graze regrowth

Drilled: 15 -30 lb/acre

Sweet Graz BMR15

Sorghum x Sudangrass

Maturity: 45-50 Days to 1st Cutting Approx. 1st cutting height 38"

Life Cycle: Annual

Excellent recovery after first cutting

High digestability

Short season maturity

Agronomics	5	4	3	2	1
Seedling Vigor			3		
Ease of Establishment			3		
Uniformity			3		
Drought Tolerance					1
Rotational Grazing					1
Continuous Grazing			3		
Digestability					1
Palatability					1
Hay					1
Multi-Cut Silage Potential				2	

Ratings Key: 1 = Exc; 5 = Poor

* Okay to graze regrowth

Drilled: 15 -30 lb/acre

Sweet Graz BMR Dry Stalk

Sorghum x Sudangrass

Maturity: 45-50 Days to 1st Cutting Approx. 1st cutting height 38"

Life Cycle: Annual

High tonnage yield potential

Dry Stalk trait, less time to dry down

Great forage quality

Agronomics	5	4	3	2	1
Seedling Vigor					1
Ease of Establishment					1
Uniformity			3		
Drought Tolerance				2	
Rotational Grazing					1
Continuous Grazing					1
Digestability			3		
Palatability					1
Hay					1
Multi-Cut Silage Potential				2	

Ratings Key: 1 = Exc; 5 = Poor

* Okay to graze regrowth

Drilled: 15 -30 lb/acre

Phillips Seed Farms Forage Information



SGBMR4155DS

Sorghum x Sudangrass

Maturity: 45-50 Days to 1st Cutting Approx. 1st cutting height 38"

Life Cycle: Annual

High tonnage yield potential

Dry Stalk trait, less time to dry down

Great forage quality

Agronomics	5	4	3	2	1
Seedling Vigor					1
Ease of Establishment					1
Uniformity			3		
Drought Tolerance				2	
Rotational Grazing					1
Continuous Grazing					1
Digestability				2	
Palatability					1
Hay					1
Multi-Cut Silage Potential					1

Ratings Key: 1 = Exc; 5 = Poor

* Okay to graze regrowth

Drilled: 15 -30 lb/acre



BMR 68D

Sorghum x Sudangrass

Maturity: 45-50 Days to 1st Cutting Approx. 1st cutting height 38"

Life Cycle: Annual

Dwarf for better standability

Great feed quality/palatability

Improved digestability

Agronomics	5	4	3	2	1
Seedling Vigor				2	
Ease of Establishment			3		
Uniformity				2	
Drought Tolerance					1
Rotational Grazing					1
Continuous Grazing				2	
Digestability					1
Palatability					1
Hay					1
Multi-Cut Silage Potential					1

Ratings Key: 1 = Exc; 5 = Poor

* Okay to graze regrowth

Drilled: 15 -30 lb/acre



Pearl Millet

Millet

Maturity: 85 Days

Plant height 5-6'

Life Cycle: Annual

Good recovery after cutting

Haying, grazing or green fodder

Agronomics	5	4	3	2	1
Seedling Vigor					1
Ease of Establishment					1
Uniformity				2	
Drought Tolerance					1
Rotational Grazing			3		
Continuous Grazing		4			
Digestability				2	
Palatability					1
Hay					1
Multi-Cut Silage		4			

Ratings Key: 1 = Exc; 5 = Poor

* Okay to graze regrowth

Drilled: 12 -25 lb/acre



German Millet

Millet

Maturity: 100 Days

Plant height 1-4'

Life Cycle: Annual

Single Cutting

Haying and grazing

Agronomics	5	4	3	2	1
Seedling Vigor			3		
Ease of Establishment					1
Uniformity			3		
Drought Tolerance					1
Rotational Grazing		4			
Continuous Grazing	5				
Digestability				2	
Palatability					1
Hay					1
Single Cut Silage	5				

Ratings Key: 1 = Exc; 5 = Poor

* Okay to graze regrowth

Drilled: 12 -25 lb/acre



Sweet Sil BMR 20D (forage sorghum)



Sweet Graz BMR 15 (sorghum x sudangrass)

Phillips Seed Farms Cover Crop Information



Dwarf Essex Rape

Cover Crop

Annual winter brassica
Helps suppress parasitic nematodes
Roost system helps break compaction
Increases earthworm activity
Drilled: 4 - 9 lb/acre
Plant: Mar-April; Aug-Sep



Forage Brassica

Cover Crop

Very winter hardy Brassica
Extremely high forage quality
Reduces soilborne diseases
Rapid growth/Quick recovery
Drilled: 4 - 9 lb/acre
Plant: Mar-April; Aug-Sep



Purple Top Turnips

Cover Crop

Cool season brassica
Easy to grow
Establishes quickly
Cold tolerant
Drilled: 3 - 8 lb/acre
Plant: Mar-April; Aug-Sep



Tillage Radish

Cover Crop

Easy to grow brassica
Helps suppress nematodes
Deep tap root (typically 30")
Improves soil fertility
Drilled: 8 - 15 lb/acre
Plant: Mar-April; Aug-Sep



Austrian Winter Peas

Cover Crop

Annual cool season legume
Very efficient water use
Very winter hardy
Recommended mix with grasses
Drilled: 30 - 40 lb/acre
Plant: Mar-April; Sep-Oct



Iron & Clay Cow Peas

Cover Crop

Annual legume
Deep tap root breaks soil pans
Excellent drought tolerance
Can be used for hay
Drilled: 75 - 120 lb/acre
Plant: May-June



Common Vetch

Cover Crop

Winter hardy annual legume
Deep tap root, breaks soil pan
Good drought tolerance
Provides spring weed suppression
Drilled: 20 - 30 lb/acre
Plant: Aug-Oct



Red Clover

Cover Crop

Fast establishing legume
Flowers attract beneficial insects
Can be used for hay or grazing
Thick and deep tap root
Drilled: 8 - 12 lb/acre
Plant: Feb-May; Aug-Oct



Yellow Clover

Cover Crop

Legume with 2-year life cycle
Very winter hardy
Flowers attract beneficial insects
Good for cover crop and forage
Drilled: 6 - 15 lb/acre
Plant: Feb-May; Aug-Oct



Ultra Graze

Cover Crop

Cover crop blend
Predominantly warm season mix
Will perform well in tougher conditions
Very good regrowth potential
Drilled: 15 - 25 lb/acre
Plant: May-July

ULTRA GRAZE	Components by %
Sorghum x Sudangrass	25%
Flax	10%
Crimson Clover	5%
Oats	10%
Peas	10%
Forage Collards	15%
Winfred Brassica	15%
Rape Seed	10%



Ultra Graze – early growth stages



Ultra Graze – mid-growth stages

Phillips Seed Farms Forage Grass & Turf Grass Information

☐ Meadow Brome

Perennial, cool season grass
Used for hay, pasture or silage
Highly palatable
High in protein
Drilled: 15 - 20 lb/acre
Plant: Jan-April; Sep-Dec

Forage Grasses



☐ Dessie Teff Grass

Warm season annual grass
Ideal hay for horses
Very good palatability and digestability
Very few disease and pest problems
Drilled: 8 - 15 lb/acre
Plant: Soil temp above 60° (May-July)

Forage Grasses



☐ Jerry Oats

Very winter hardy annual grass
High quality feed source
Rapid growth/quick recovery
Good weed suppression
Drilled: 65 - 100 lb/acre
Plant: Mar-April; Aug-Sep

Forage Grasses



☐ Annual Ryegrass

Annual cool season grass
Suppresses weeds
Recovers well after grazing
Used for pasture and erosion control
Drilled: 12 - 20 lb/acre
Plant: Feb-May; Aug-Sep

Forage Grasses



☐ Mojo Crabgrass

Annual summer forage
Excellent for haying and grazing
Highly digestible
High in crude protein
Drilled: 5 - 8 lb/acre
Plant: May-June

Forage Grasses



☐ Triticale

Very productive winter annual
Hybrid of wheat and ryegrass
Excellent forage for cattle
High protein and digestible feed
Drilled: 90 - 120 lb/acre
Plant: Aug-Oct

Forage Grasses



☐ Playground

Mix of two tall fescue varieties and Kentucky Bluegrass
Excellent performance for high traffic areas
Superior turf quality
Slow growing = Less mowing
Spring Planting: March to May
Fall Planting: August to September
Planting Rate New Lawn: 6-8 lbs./1000 sq. ft.
Planting Rate Existing Lawn: 3-4 lbs./1000 sq. ft.

Lawn & Turf



☐ FSG 402

High yielding
Endophyte free
Excellent persistence and Drought Tolerance
Excellent disease resistance
Spring Planting: March to May
Fall Planting: August to September
Planting Rate New Lawn: 8-10 lbs./1000 sq. ft.
Planting Rate Existing Lawn: 4-5 lbs./1000 sq. ft.

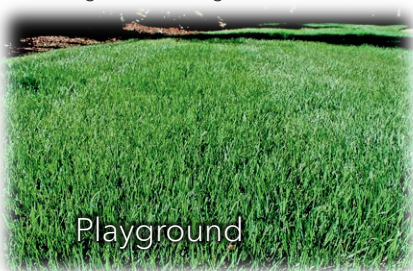
Lawn & Turf



☐ Buffalo Grass

Warm season grass
Needs full sun
Drought tolerant
Low water requirements
Summer Planting: May to June
Fall Planting: Do not plant in the fall
Planting Rate New Lawn: 3-4 lbs./1000 sq. ft.
Planting Rate Existing Lawn: 1-2 lbs./1000 sq. ft.

Lawn & Turf



Playground

☐ Common Bermuda Grass

Warm season grass
Needs full sun
Drought tolerant
Low water requirements
Summer Planting: May to June
Do not plant in the fall
Planting Rate New Lawn: 4-5 lbs./1000 sq. ft.
Planting Rate Existing Lawn: 2-3 lbs./1000 sq. ft.

Lawn & Turf



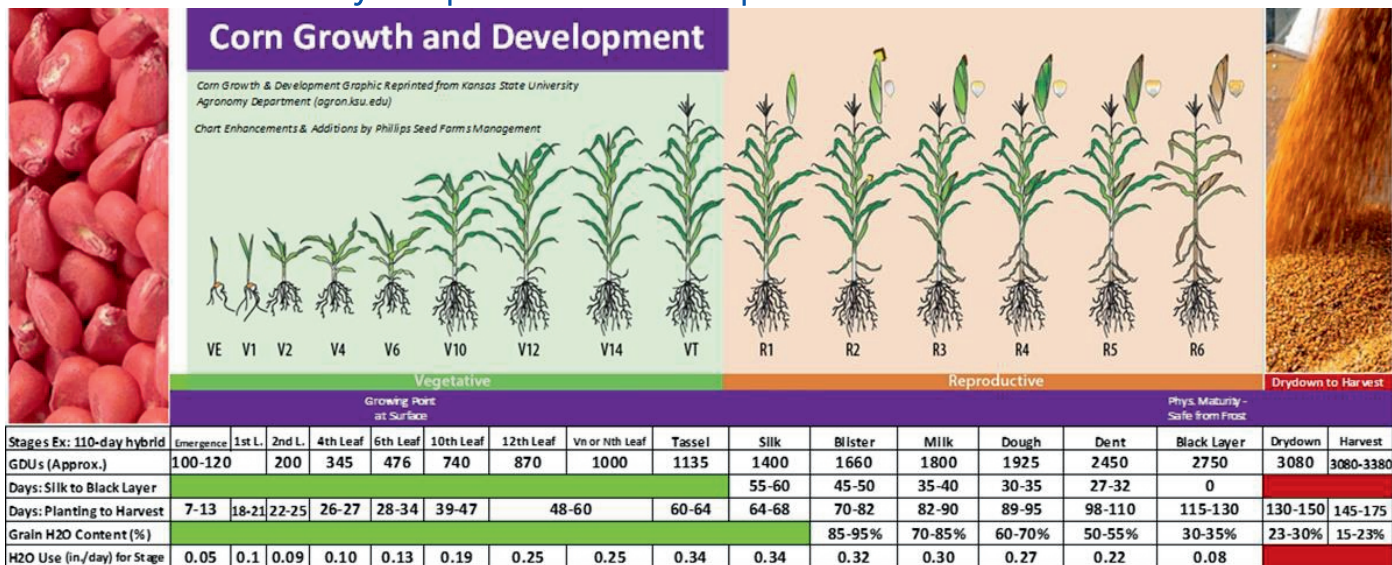
Playground



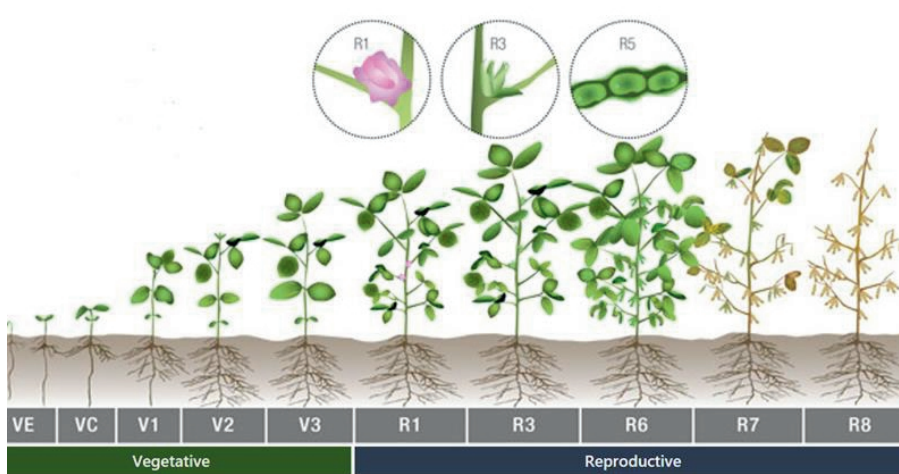
FSG 402

Key Crop Growth Development Charts

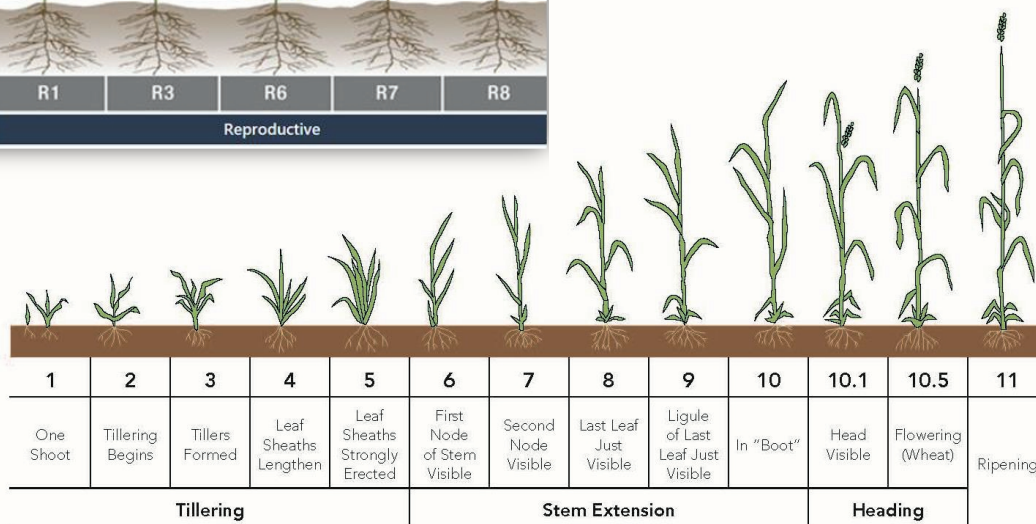
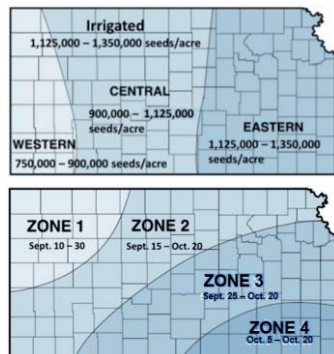
HYBRID SEED CORN



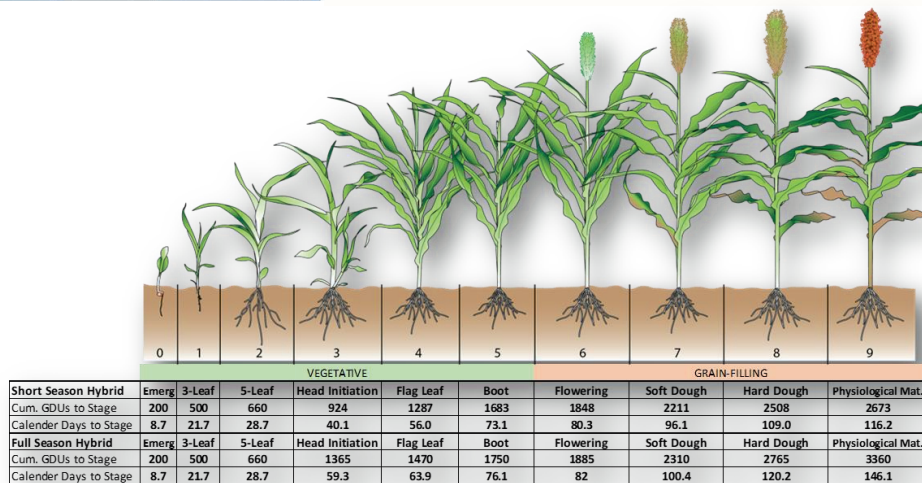
SOYBEAN



WHEAT



GRAIN SORGHUM



BASIC CORN AGRONOMY CONSIDERATIONS

Hybrid (s) Selection Criteria for the Great Plains Region

1. **Relative Maturity.** Select maturities capable of reaching black layer before frost, but still take advantage of the growing season's yield accumulation period.
 - a. **Select flex or semi-flex hybrids** for management flexibility.
 - b. **Plant three or more hybrids** to spread production risk.
 - c. **Consider heat and drought tolerant hybrids.** Select solid genetics with good plant health and good drought tolerance traits.
 - d. **Consider insect-resistant traits where issues persist.**
 - e. **Consider weed pressure, and using herbicide-tolerant traits.**
2. **Consider Plant population.** Check soil type, moisture and nutrients. For a basic guideline:
 - a. Extreme drought conditions: 12,000 to 16,000 PPA (Plants Per Acre).
 - b. Marginal dryland conditions: 16,000 to 20,000 PPA.
 - c. Mod. dryland and ltd. irrigation conditions: 20,000 to 25,000 PPA.
 - d. Excellent dryland and good irrigated conditions: 25,000 to 30,000 PPA.
 - e. Ideal dryland conditions and excellent irrigation conditions: 30,000 to 35,000 PPA.
3. **Planting Dates.** Consider soil temps and conditions. Corn germs best past 50° to 55° F.
4. **Plant Seeds at Uniform Spacing and Depth.**
 - a. **Match seed weight or grade size to planter type.** Optimize singulation.
 - b. **Plant from 1 ½" to 2 ½" deep.** Consider soil conditions and type. **Consistent 2" depth is ideal.**
 - c. **Regulate planting speed to equipment & conditions.**
 - d. **Maintain consistent down pressure.**
 - e. **Close furrow (vee) for proper seed-to-soil contact.**
5. **Fertilization.** Test soil every 2 to 3 years. Set realistic yield goals.
 - a. Corn requires 1.2 lb of N per bushel on average. Consider % O.M., N credits from prior crops, and other factors .
 - b. Split apply the N, and don't ignore the micronutrients.
6. **Insect pressure.** Consider hybrids with protective B.t. traits.
7. **Disease Issues.** Select hybrids with resistance to Goss's Wilt, Southern Rust, Common Rust, SCLB, and others.
8. **Fungicide Use.** Proper applications can help maintain plant health, protect, and even enhance yield. Please note, current fungicides does not control NCLB and Goss's Wilt, so opt for hybrids with favorable ratings for suspect areas.

BASIC SOYBEAN AGRONOMY CONSIDERATIONS

1. **Variety Selection**
 - a. Plant as full a season variety as early as you can.
 - b. Consider trait & genetic package for disease & pest control.
2. **Planting Depth 1" to 2"** - Dry conditions may warrant planting a bit deeper.
3. **Plants Per Acre (PPA):** 90K to 150K, but most common ranges from 120K to 140K.
4. **Consider treatments** – many offer root & plant health and yield advantages.
 - a. **Inoculant** – adding Rhizobia can increase nodulation and yield.
 - b. **Fungicide/insecticide** – these enhance vigor and can add uniformity in maturing plants.
5. **Fertilization:** Apply nutrients based on what expected yields will remove, e.g.
 - a. 1.4 lb of K per bushel of yield.
 - b. 0.8 lb of P per bushel of yield.
6. **Soil pH:** 6.3 to 6.5 is best, but 5.8-7.0 OK.
7. **Plant into warm soils.** Soil temps should be 50° F and above before germination can normalize.
8. **Rotating crops is a best practice.**
9. **Harvest** once 95% of pods are a mature tan color and moisture levels reach 13% to 15%. Harvesting too dry may result in shattering and lost yield.

BASIC WINTER WHEAT AGRONOMY CONSIDERATIONS

- **Variety Selection:** Select varieties adapted to the area and the specific conditions, crop rotation, pest issues, weed issues, and the like. Consider a blend for spreading the risk over varying or uncertain conditions.
- **Suggested Planting Dates:** Plant within the first ten (10) days of the fly-free date to allow for good fall tillering. See map (previous page).
- **Fertility Considerations:**
 - Soil test for optimum soil nutrient levels and yield.
 - Depending on pH, applying a band of Phosphorus in row can reduce the potential for aluminum toxicity, increase plant health and yield.
 - Maintain high N levels by split applying at seeding, V5 stem elongation, and prior to heading. Split applying reduces lodging potential and enhances quality
- **Suggested Planting Rates:** See Kansas map (previous page)

BASIC GRAIN SORGHUM AGRONOMY CONSIDERATIONS

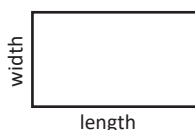
- **Hybrid Selection:** Balance offensive & defensive characteristics. Don't plant all the same maturity.
 - Select hybrids with SugarCane Aphids & Greenbug Resistance.
- **Soil Temps to Germinate:** 60° F and higher.
- **Planting Dates:** Usually earlier planting is best, but the planting window is fairly wide. Consider frost potential.
- **Planting Depth:** 1" – 2" range. Best is 1 ¼" – 1 ½".
- **Fertilization:** 1 to 1.1 lb of N per bushel is a general rule of thumb.
- **Crop Rotation:** Recommended.
- **Harvesting:** 18% moisture or below is best, but if on the higher end, aeration and drying is warranted.
- **Crop Storage (Long-Term):** 13% is recommended.

Seeding Information By Crop Type

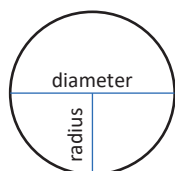


Seed Type	Approximate Seeds/LB	Planting Rate lb/Acre or Seeds/Acre	Seeding Depth (Inches)	Suggested Planting Dates	Emergence Time (Days)	Primary Use
Alfalfa	227,000	15 to 20 lb	1/4" to 1/2"	March-May; August-September 15	7	Hay, Silage & Pasture
Brome, Smooth	138,000	15 to 20 lb	1/4" to 1/2"	January-April; September-December	14	Hay & Pasture
Clover, Red	272,000	8 to 12 lb	1/4" to 1/2"	February-May; August-October	7	Hay, Silage & Pasture
Clover, White	760,000	4 to 8 lb	1/8" to 1/2"	February-May; August-October	7	Hay & Pasture
Clover, Yellow	260,000	6 to 15 lb	1/8" to 1/2"	February-May; August-October	7	Hay & Pasture
Corn, Field	1,200 to 2,200	14,000 to 35,000	1.5" to 2.75"	Geo-specific: March-June	7 to 12	Grain & Silage
Forage Brassica	180,000	4 to 8 lb	1/4" to 1/2"	March-April; August-September	7	Pasture
Forage Sorghum: Drilled	17,000 to 20,000	15 to 20 lb	1"	May-July	10	Silage
Forage Sorghum: Rows	17,000 to 20,000	4 to 6 lb	1"	May-July	10	Silage
Grain Sorghum (Milo)	13,500 to 15,500	45,000 to 85,000	1" to 2"	Geo-specific: June-July	7 to 10	Grain & Silage
Millet, German	220,000	15 to 20 lb	1/2" to 1"	May-July	10	Hay
Millet, Pearl	60,000	15 to 20 lb	1/2"	May-July	7	Pasture & Silage
Oats	16,000	65 to 100 lb	1" to 2"	February-April; August-September	10	Hay & Pasture
Peas, Austrian Winter	2,000	30 to 40 lb	1/2" to 1"	February-April; September-October	7	Hay, Pasture & Silage
Peas, Iron & Clay Cow	3,000	75 to 120 lb	1/4" to 1/2"	May-June	8	Hay, Pasture & Silage
Purple Top Turnips	220,000	3 to 8 lb	1/2"	March-April; August-September	7	Pasture
Radish, Tillage	48,000	8 to 15 lb	1/4" to 1/2"	March-April; August-September	7	Pasture
Rape, Dwarf Essex	145,000	4 to 9 lb	1/4" to 1/2"	March-April; August-September	7	Hay & Pasture
Ryegrass, Annual	227,000	12 to 20 lb	1/4" to 1/2"	February-May; August-September	14	Hay & Pasture
Sorghum x Sudangrass	21,000	15 to 20 lb	1"	May-July	10	Hay & Pasture
Sorghum x Sudangrass BMR	21,000	15 to 20 lb	1"	May-July	10	Hay & Pasture
Soybean	2,500 to 3,500	90,000 to 150,000	1" to 2"	Geo-specific: April-June	7 to 10	Grain
Teff Grass (50% Coated)	650,000	8 to 15 lb	1/8" to 1/4"	May-July	4 to 7	Hay, Silage & Pasture
Triticale	15,000	90-120 lb	1" to 2"	August-October	7	Hay & Pasture
Ultra Graze (blend)	90K to 100K	15 to 25 lb	1/2" to 1"	May-July	9 to 12	Pasture, Graze, Cover
Vetch, Common	16,000	20 to 30 lb	1"	August-October	14	Hay & Pasture
Wheat, Hard Red Winter	18,000 to 19,000	900,000 to 1,300,000	3/4" to 1-1/4"	September-October	7 to 10	Grain

Note: the information provided above is close approximations. Environmental conditions may potentially cause variations in seed size, planting dates, emergence time frame and even end uses.

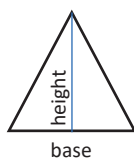


Area of rectangle or square = length x width

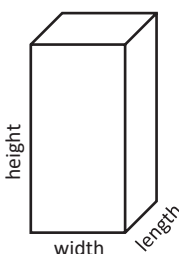


Area of a circle = 3.1416 x radius squared; or 0.7854 x diameter squared

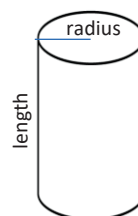
Circumference of a circle = 3.1416 x diameter or 6.2832 x radius



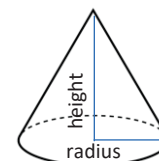
Area of a triangle = base x height ÷ 2



Volume of rectangular box or cube = length x width x height



Volume of a cylinder = 3.1416 x radius squared x length



Volume of a cone = 1.0472 x radius squared x height

SEED SPACING (in Inches) by Row Widths & Plants Per Acre (PPA) Targets

Row Spacing (in.)	Linear ft. per 1/1000 acre	Common Seed Corn PPAs					Common Grain Sorghum PPAs			Common Soybean PPAs			
		20,000	24,000	28,000	32,000	36,000	48,000	60,000	72,000	100,000	120,000	140,000	160,000
7	74' 8"	44.8	37.3	32.0	28.0	24.9	18.7	14.9	12.4	9.0	7.5	6.4	5.6
10	52' 3"	31.4	26.1	22.4	19.6	17.4	13.1	10.5	8.7	6.3	5.2	4.5	3.9
15	34' 10"	20.9	17.4	14.9	13.1	11.6	8.7	7.0	5.8	4.2	3.5	3.0	2.6
20	26' 2"	15.7	13.1	11.2	9.8	8.7	6.5	5.2	4.4	3.1	2.6	2.2	2.0
22	23' 9"	14.3	11.9	10.2	8.9	7.9	5.9	4.8	4.0	2.9	2.4	2.0	1.8
30	17' 5"	10.5	8.7	7.5	6.5	5.8	4.4	3.5	2.9	2.1	1.7	1.5	1.3
36	14' 6"	8.7	7.3	6.2	5.4	4.8	3.6	2.9	2.4	1.7	1.5	1.2	1.1
38	13' 9"	8.3	6.9	5.9	5.2	4.6	3.4	2.8	2.3	1.7	1.4	1.2	1.0

Calculating Crop Yield At Harvest

Grain Formula: Yield = (100 – H2O) x (lbs. of grain) x (factor) divided by (row length in feet) divided by (row width in inches x number of rows). Grain Factors: Corn = 110.465; Soybean = 100.138; Grain Sorghum = 108.538; Wheat = 100.716

Example for Corn Grain: 5,000 lbs. of 16.5% shelled corn from 8 – 30" rows, 1,000 ft. long.

Yield = 83.5 x 5000 x 110.465 divided by 1000 divided by 240 = 192.16 bu/acre.

ACRES PLANTED PER UNIT OF SEED

CORN ¹		SOYBEAN ²		GRAIN SORGHUM ^{**}	
PPA Target	Acres Planted Per 80M Unit	PPA Target	Acres Planted Per 140M Unit	PPA Target	Acres Planted Per 700M Unit
12,000	6.67	90,000	1.56	45,000	15.56
14,000	5.71	100,000	1.40	50,000	14.00
16,000	5.00	110,000	1.27	55,000	12.73
18,000	4.44	120,000	1.17	60,000	11.67
20,000	4.00	130,000	1.08	65,000	10.77
22,000	3.64	140,000	1.00	70,000	10.00
24,000	3.33	150,000	0.93	75,000	9.33
26,000	3.08	160,000	0.88	80,000	8.75
28,000	2.86	170,000	0.82	85,000	8.24
30,000	2.67	180,000	0.78	90,000	7.78
32,000	2.50	190,000	0.74	95,000	7.37
34,000	2.35	200,000	0.70	100,000	7.00
36,000	2.22	210,000	0.67	105,000	6.67

CORN¹ Unit = 80,000 Seeds Per Unit. Typical Unit weights vary from 35 to 65 lbs.

SOYBEAN² Unit = 140,000 Seeds Per Unit. Typical Unit weights vary from 40 to 60 lbs.

Grain Sorghum^{**} is still packaged in 50 lb bags. The above example is calculated at 14,000 Seeds/lb. Be sure to read seed tags for actual seeds/lb.

Irrigation Water Measurements

Volume:

- 1 acre-inch (ac in.): volume of water required to cover one acre
- 1 inch deep = 27,154.29 gallons = 3,830 cubic feet
- 1 acre-foot (ac. Ft.) = 325,851 gallons = 43,560 cubic feet
- 1 cubic foot = 7.48 gallons = 62.4 lbs.
- 100 cubic meters = 100,000 liters = 26,417.2 gallons

Flow Rate:

1 ac-in./hour = 452.57 gallons/minute = ~1 cubic foot/sec

GDU = ((Daily High Temp + Daily Low Temp) divided by 2) minus 50
For Corn: High limit is 86°F; Low limit is 50°F



*Seed Financing Options
Ready to Work for YOU*

Phillips Seed Farms offers John Deere Financial seed financing to provide our customers with solid payment and finance options. Please call a Phillips Seed Farms office or ask your Phillips Seed Farms Area Sales Manager for more information.

Phillips Seed Farms Premium Seed Treatments for Corn, Soybeans & Wheat

► Phillips Seed Farms CORN Seed Treatments

Your Phillips Seed Farms Brand Corn Seed will come treated with one of the treatments listed. The two most common on this list is Acceleron® and CruiserMaxx® Vibrance®, but the other two are used too. We add our own N-VGR8™ supplement to enhance these already proven treatment blends for even more seedling protection and improved yields.

PSF Base Seed Treatments

One of these will come as a standard treatment
- varies by hybrid & even lot number



Supplemental Seed Treatment Used

In all new production lots, Phillips Seed Farms adds the N-VGR8™ supplemental seed treatment for that added boost of protection



- ☐ Increases protection against Nematode damage
- ☐ Increases root mass, plant health, vigor and yield
- ☐ Enhances seedling health & root development
- ☐ Reduces seedling stress and optimizes growth

► Phillips Seed Farms SOYBEAN Seed Treatments

PSF's N-VGR8™ Brand Soybean Seed Treatment provides three (3) seed treatment options depending on your yield goals and growing needs. Outstanding protection is economical in two ways: Lower cost, increase yields.



Bundle 1 (Fung. + Inoc.)

Bundle 2 (Fung. + Insect. + Inoc.)

Inoculant (Inoculant Only)

- ☐ **Fungicide 1** – Protects against Phytophthora, Pythium
- ☐ **Fungicide 2** – Fusarium, Rhizoctonia, Stem Blight, Molds, Stem Rot, Seed Decay, Phomopsis & More
- ☐ **Fungicide 3** – Rhizoctonia, Fusarium, White Mold, Brown Spot, Seed & Soil Fungi, Damping Off, Seedling Blight
- ☐ **Fungicide 4** – Rhizoctonia, Seed Decay Fungi, Junk Fungi, Phytophthora, Pythium
- ☐ **Insecticide** – Bean Leaf Beetle, Wireworm, Seed Corn Maggot, Aphids & More
- ☐ **Inoculant** – Included in Bundles 1 & 2, and as a stand-alone

► Phillips Seed Farms WHEAT Seed Treatments

● Fungicide + Insecticide (F&I)

Contains 2 prominent fungicides and an insecticide to protect the seed from pests and help prevent disease. This total protection provides excellent insurance to establish stands and maximize yield

● Full Fungicide (F/F)

Contains 2 prominent fungicides to protect the seed, help prevent disease and pave the way for better plant health yield

Legal Section

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, 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. **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. DroughtGard®, RIB Complete®, Roundup Ready 2 Technology and Design™, Roundup Ready 2 Xtend®, Roundup Ready 2 Yield®, Roundup Ready®, SmartStax®, SR and Design®, 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



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



Legal Section

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 numerous US patents. Seeds containing patented traits can only be used to plant a single commercial crop and cannot be saved or replanted. 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 Technology Use Agreement and (ii) the Product Use Guides for all technologies in this seed, including the Herbicide Resistance Management (HRM), and Use requirements detailed therein (www.corteva.us/Resources/trait-stewardship.html). 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.



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



Seeds containing the LibertyLink® trait are protected under one or more US patents and may be planted only to produce one (1) commercial crop in a single season, and only after signing a BASF Grower Technology Agreement. It is illegal to save seeds containing the LibertyLink® trait for use as planting seed or for transfer to others for use as planting seed. Always read and follow label directions. Liberty and LibertyLink are registered trademarks of BASF. M.S. Technologies is a trademark of M.S. Technologies, L.L.C. ©2019 BASF Corporation / M.S. Technologies, L.L.C. All Rights Reserved. APN 18-INT-0014



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



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



Corn trait technology incorporated into these seeds is commercialized under license from Syngenta Seeds, LLC. Herculex® Technology incorporated into these seeds is commercialized under license from Corteva Agriscience LLC. HERCULEX® and the HERCULEX Shield are trademarks of Corteva Agriscience LLC.



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. More information about Duracade™ is available at <http://www.biotradestatus.com>.



Agrisure®, Agrisure® Above, Agrisure® Total, Duracade™, DuracadeViptera™, DuracadeViptera™ Z3, Viptera™, Viptera™ Z3, E-Z Refuge® and Refuge Renew™ are trademarks of a Syngenta Group Company.

Think Before You Bin Run

Verification Required The last patent on the original Roundup Ready® soybean trait expired a few years ago and U.S. farmers may legally plant saved seed from some varieties of soybean containing the Roundup Ready® soybean trait. However, it is important that you check with your seed supplier to determine if a specific Roundup Ready® soybean variety is covered by other intellectual property rights, and if so, the policy for saving seed of that variety.

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

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

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

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

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

Increased Seed Management If you plan to save and bin-run Roundup Ready® soybeans for planting, you will have to manage your harvest operations and grain storage so that the seed isn't commingled 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



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.

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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.



Phillips Seed Farms **Wildlife Division Products**

Distributors and/or Dealers
of these fine product lines:



Growing bigger bucks, healthier herds, and better wildlife habitat for farmers, ranchers & land managers

Jeremy Sluder, pictured at left, is the principal contact for PSF Wildlife Division products. At his right is Wes Delks, the co-owner and General Manager of Real World Wildlife Products. Wes had a successful ending to his Kansas hunt with this quality whitetail buck. These two share common beliefs and methods for maximizing wildlife habitat and growing a healthier whitetail deer population. Contact Jeremy at 785-949-2204 for product info & dealership inquiries.



► Mark your calendars for Saturday, FEB 18, 2023! We're hosting the Whitetail Management Summit at Tony's Event Center, Salina, KS. Don Higgins & Wes Delks, wildlife habitat management consultants, and co-owners of Real World Wildlife Products, and Dr. Bronson Strickland of the Mississippi State University Deer Lab and subject expert will be our feature presenters. You won't want to miss this premier event! Stay tuned for details on how to pre-register in the near future.





Growing bigger bucks, improving herd health and increasing fawning rates begins with better wildlife habitat management. This includes minerals & feed supplements and targeted plantings of the "right" cover crops,. Contact Jeremy Sluder @ 785.949.2204.



Jeremy Sluder's buck
Fall 2019 – 173 6/8"



Jeremy Sluder's buck
Fall 2020 – 172 3/8"



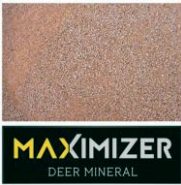
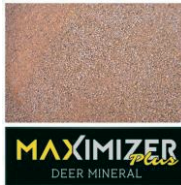


Healthy, happy fawns! Get them started
off the right way!

Deer Feed, Minerals & Supplements



Phillips Seed Farms Wildlife Division is a proud distributor of Real World Wildlife Products (RWWP). RWWP was awarded exclusive marketing rights on one of the more important deer nutrition breakthroughs in recent history, called "Expect Healthy Deer Technology" or EHD. EHD is a proprietary blend of all-natural ingredients developed by professional animal nutritionists. It supports and strengthens a strong immune system, optimizes rumen function and gastrointestinal function, while enabling better nutrient utilization for maximizing animal health and production. It contains a direct-fed microbial (probiotic) for optimizing the absorption of minerals, vitamins, and other nutrients to help maintain optimal gut-health under all conditions.

Note: Humic Acid has now been added to RWWP minerals & feed supplements to help prevent and reduce the impact of CWD (Chronic Wasting Disease).

Ingredient	Aids with:				
EHD® Technology	Immune system support + probiotic for gut health	NO	X	X	X
Humic Acid	Prevention & spread of CWD	X	X	X	X
Calcium	Bone, teeth & antlers	X	X	X	X
Phosphorus	Formation of bones, teeth, antlers, metabolism, etc.	X	X	X	X
Magnesium	Energy & replication of DNA for cell division	X	X	X	X
Potassium	Cell maintenance, etc.	X	X	X	X
Sulfur	Feed intake & haircoat health	X	X	X	X
Cobalt	Synthesis of Vitamin B12	X	X	X	X
Copper	Fertility & immune system	X	X	X	X
Iodine	Thyroxin production	X	X	X	X
Iron	Energy metabolism & red blood cell function	X	X	X	X
Manganese	Reproduction & fetal development	X	X	X	X
Chlorine	Volume & pH of body fluids	X	X	X	X
Selenium	Growth function & resistance to disease	X	X	X	X
Zinc	Enzymes for protein & carb metabolism	X	X	X	X
Riboflavin	Converting food to energy	X	X	X	X
Niacin (Vitamin B3)	Nervous system + fat & protein utilization, etc.	X	X	X	X
Choline	Development of fetuses & antlers	X	X	X	X
Thiamine	Energy, cardio, eye & brain function	X	X	X	X
Pyridoxine	Production of red blood cells & nerve function	X	X	X	X
Vitamin A	Reproduction & eye health	X	X	X	X
Vitamin D3	Fighting infections	X	X	X	X
Salt	Providing a sodium & chlorine source	X	X	X	X
Contains over 200 different minerals and nutrients overall		X	X	X	X
Directions for Use				Use gravity feeder or covered trough, but can be poured directly on ground	Mix with grains at a rate of 200# per ton of feed

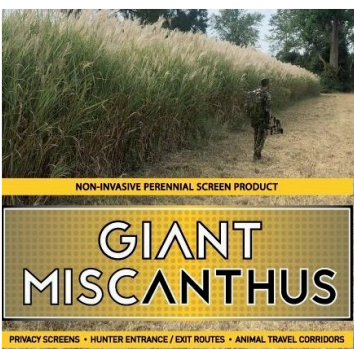


Switchgrass



Real World Switchgrass

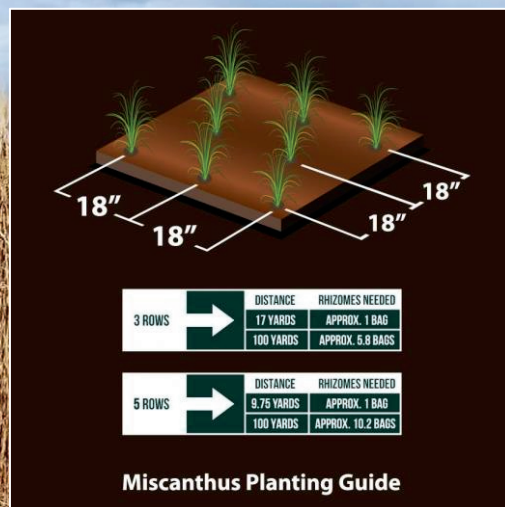
The Real World Switchgrass perennial variety has been selected as the best-in-class bedding and cover habitat for wildlife. It has better standability compared to competitive varieties. Grows 7' to 8' tall.



Real World GIANT MISCANTHUS

The World's Best Screening Option!

Real World Giant Miscanthus is a patent-protected variety, *miscanthus giganteus*. It grows up to 12 – 15' in height, has bamboo-like stalks that stand all winter. It is a perennial, meaning it comes back year after year. It is grown by planting small pieces of root, called rhizomes, and is available in 100-count bags or bulk bags of 5,000 and 10,000 rhizomes.



Wildlife – Tailored Cover Crops, Roasted Soybeans for Feed & ASF Feeders



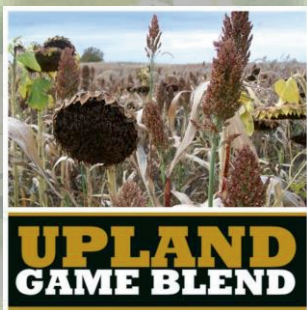
Clover & Chicory is a blend of four perennial clover varieties plus a drought hardy variety of chicory. This wildlife-friendly blend of cultivars is proven to attract whitetail deer.



Includes Winter Hardy Oats, Winter Wheat, Winter Barley, Austrian Winter Peas, Tillage Radish, Purple Top Turnips, Rape Plus, Sugar Beets, Forage Collards, Impact Forage Collards, Crimson Clover and Oil Seed Radish. Comes in a ¼ acre bag.



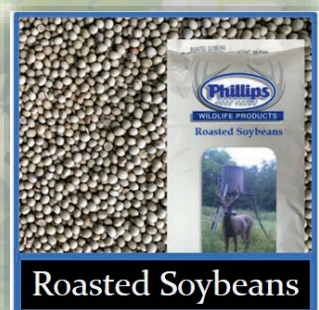
Outstanding fall seed option, containing three cereal grain species and Austrian Winter Peas. This specific variety is very winter hardy. Deer will feed throughout fall/winter season into the following spring. Comes in a 25# bag, enough for ½ acre.



Contains sunflowers, soybeans, sorghum and millet. Great for attracting pheasant, quail, turkeys, rabbits, song birds and a wide variety of wildlife. Great for creating edges and diversifying food sources for your property.



Blend of four soybean varieties that have been specifically selected to attract whitetail deer. Different from varieties used for agricultural fields, but does come in glyphosate and Enlist options, for better weed control.



Phillips Seed Farms Wildlife Division's own blend of roasted soybeans to work as one of the grains for feed mixing with RWWP's feed mix and concentrate. Roasted soybeans offer improved palatability and digestibility.

We're just scratching the surface of what Phillips Seed Wildlife Division has to offer, so if you don't see it listed here, just give Jeremy a call @ 785.949.2204.



PSF Wildlife Division has premium feeders on hand, specifically designed for deer. Four models are shown here, but more models are available. Yep, they're made in the USA!



1,000lb Pro Evo



2,000lb Low Pro



1,250lb Stand & Fill™ Protein



2,000lb Pro Evo

360 Hunting Blinds: The Best Blind for Maximizing the Hunting Experience



360 Hunting Blinds are simply the best hunting blinds made today. From the engineering, to the quality of materials used, to the workmanship, to the spacious interiors, you just can't find a better blind. Hunters consistently talk about how well constructed and quiet these blinds are compared to so many others on the market today. These multi-sided blinds have tinted "archery" and "firearm" windows that quietly and smoothly open and close for premium visibility, while providing perfect concealment for the hunter with enough room to stand upright. Stop by our office, or visit with us at a trade show to inquire which model is the best for you.

Features & Upgrades

Features Included:

- 360 PRO has 9 gun/crossbow, and 4 archery windows.
- 360 PRO XL has 9 gun/crossbow, and 6 archery windows
- All have peep windows at standing height
- Wood frame construction & LP Smartside Exterior
- 80" inside height
- Locking door with sliding 18" wide x 12" high window
- Built in pockets for pressure treated 4x4 legs
- Padded shooting rails at each window
- Adjustable vent above door
- Heavy duty, seamless waterproof roof
- Carpeted floor & walls up to bottom of windows

Upgrade Options:

- Metal tower stand
- Shelf kits
- Handicap accessible door



Give Jeremy a call at 785.949.2204, or email him at: jsluder@phillipsseed.com with any questions you may have.



SERVE • INNOVATE • GROW

THANK YOU FOR YOUR BUSINESS!

800.643.4340

PhillipsSeed.com



Facebook.com/PhillipsSeedFarms

Check out our wildlife products on pages 47 - 51