

DYNAGRO[®]

SEED

2025 SEED CATALOG





HOME-FIELD ADVANTAGE.

Welcome to the 2025 Dyna-Gro® Seed catalogue. As the Vice President of this dynamic seed brand, I am excited to present our premium seed solutions, designed and selected to cater to the wide range of agricultural demands you face, every season. This catalogue offers high-quality seeds developed through meticulous research, promising exceptional performance and sustainability. We appreciate your trust in Dyna-Gro Seed and are eager to contribute to your success in the forthcoming growing season.

Rob Dunlop

VP North American Seed



Learn more at

DynaGroSeed.com

Available through:

Nutrien
Ag Solutions®

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2025 Dyna-Gro National Product Guide



DYNAGRO.
SEED

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CORN

At home on any acre.



DYNAGRO
SEED

LEGEND

RATING SCALE:

- 9 = Excellent
- 7-8 = Very Good
- 5-6 = Good
- 3-4 = Fair
- 1-2 = Poor
- N/A = Information Not Available

* All information is based on comparisons with other Dyna-Gro hybrids. Environmental conditions may cause hybrids to perform differently.

GDU (Growing Degree Unit) to Black Layer - Physiological maturity/zero milklane from planting. This can vary due to day length, temperature, fertility, date of planting, etc.

TECHNOLOGY:

- CONV = Conventional
- RR2 = Roundup Ready® Corn 2
- VT2P = VT Double PRO® Corn
- VT2P-RIB = VT Double PRO® RIB Complete® Corn Blend
- DG/VT2P = DroughtGard® Hybrids with VT Double PRO® Corn
- DG/VT2P-RIB = DroughtGard® Hybrids with VT Double PRO® RIB Complete® Corn Blend
- TRECEPTA = Trecepta®
- TRECEPTA-RIB = Trecepta® RIB Complete® Corn Blend
- SS = SmartStax® Corn
- SS-RIB = SmartStax® RIB Complete® Corn Blend
- SSP-RIB = SmartStax® PRO RIB Complete® Corn Blend
- VT4P-RIB = VT4Pro™ RIB Complete Corn Blend
- PowerCore® Enlist® = PowerCore® insect technology with Enlist® herbicide technology
- PowerCore® Enlist® = PowerCore® insect technology with Enlist® herbicide technology in a refuge advance blend
- Agrisure® GT = Agrisure® GT trait, glyphosate herbicide tolerance
- Agrisure Viptera® 3110 = Single trait above ground action against lepidopteran pests and European corn borer
- Viptera® = Viptera® trait stack, two modes of above ground action against lepidopteran pests and European corn borer. Glyphosate tolerance. Convenient E-Z Refuge® seed blend.
- DuracadeViptera™ = DuracadeViptera™, two modes of action for corn rootworm control plus most complete coverage against above ground pests
- Viptera® Refuge Renew™ = Viptera® trait stack of multiple modes for above ground action against lepidopteran pests and European corn borer

PLANT HEIGHT:

- S = Short
M/S = Medium-Short
M = Medium
M/T = Medium-Tall
T = Tall

EAR HEIGHT:

- L = Low
M/L = Medium-Low
M = Medium
M/H = Medium-High
H = High

DUAL PURPOSE:

- HR = Highly Recommended
R = Recommended
NR = Not Recommended
N/A = Information Not Available

DISEASE RATINGS:

- 8 - 9 = High Tolerance
6 - 7 = Tolerance
4 - 5 = Moderate Tolerance
1 - 3 = Susceptible
N/A = Information Not Available

DYNA-GRO LETTER DESIGNATION:

- CC = Conventional Corn
DC = DroughtGard® Hybrids with VT Double PRO®
GT = Agrisure® GT
PN = PowerCore® Enlist®
QC = Agrisure Viptera® 3110
QD = DuracadeViptera™
QZ = Viptera® Refuge Renew™
RA = Refuge Advanced®
RIB = Refuge In Bag
RR = Roundup Ready® Corn 2
SP = SmartStax® PRO with RNAi Technology
SS = SmartStax®
TC = Trecepta®
VC = VT Double PRO®
VT = VT4Pro™ RIB® Complete®
W = White Corn
WX = Waxy

DYNA-GRO CORN NUMBER SYSTEM:

- 1st Character = D=Corn
2nd & 3rd Character = Add 60 for Maturity
4th & 5th Character = Technology
6th Character = Assigned Number
7th Character = Year of Release

Example: D52SS63RIB = Corn, 112 day, SmartStax® RIB Complete® Corn Blend, D52SS63 family

Bayer Company 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. This product has been approved for import into key export markets with functioning regulatory systems. Any crop or material produced from this product can only be exported to, or used, processed or sold in countries where all necessary regulatory approvals have been granted. It is a violation of national and international law to move material containing biotech traits across boundaries into nations where import is not permitted. Growers should talk to their grain handler or product purchaser to confirm their buying position for this product. Excellence Through Stewardship® is a registered trademark of Excellence Through Stewardship.

B.t. products may not yet be registered in all states. Check with your 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.

DroughtGard® Hybrids with RIB Complete® corn blend the refuge seed may not always contain DroughtGard® Hybrids trait.

ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. Roundup Ready® 2 Technology contain genes that confer tolerance to glyphosate. **Glyphosate** will kill crops that are not tolerant to glyphosate.



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

Agrisure Viptera®, Agrisure Artesian®, Agrisure® Above, Agrisure® Total, Duracade®, DuracadeViptera™, DuracadeViptera™ Z3, Viptera™ Z3, and E-Z Refuge® are trademarks of a Syngenta Group Company. Corn trait technology incorporated into these seeds is commercialized under license from Syngenta Seeds, LLC. More information about Duracade® is available at <http://www.biotradestatus.com>. Herculex® Technology incorporated into these seeds is commercialized under license from Corteva Agriscience LLC. 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. HERCULEX® and the HERCULEX Shield are trademarks of Corteva Agriscience™. Acceleron®, DroughtGard®, RIB Complete®, Roundup Ready 2 Technology and Design®, Roundup Ready®, Roundup®, SmartStax®, SmartStax® PRO, SmartStax® PRO RIB Complete, Trecepta®, Trecepta® RIB Complete®, VT Double PRO®, and VT4Pro™ are trademarks of Bayer Group. Respect the Refuge and Corn Design® and Respect the Refuge® are registered trademarks of National Corn Growers Association. All other trademarks are the property of their respective owners.

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

Seeds containing the PowerCore® Enlist®, PowerCore® Enlist® Refuge Advanced®, and Enlist® Corn - REFUGE traits are protected under one or more U.S. patents which can be found at: www.traitstewardship.com. The purchase of this trailed seed includes a limited license to produce a single crop in the United States. The use of seed from such a crop and/or the progeny thereof for propagation or seed multiplication or for production or development of a hybrid or different variety of seed is strictly prohibited. You acknowledge and agree to be bound by the terms and conditions of the following documents in effect at the time of planting of this seed: (i) the Corteva Agriscience Technology Use Agreement and (ii) the Product Use Guides for all technologies in this seed, including the Herbicide Resistance Management (HRM), and Use requirements.



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



Respect the Rotation™ is an initiative to elevate the importance and farmer adoption of herbicide diversity to prevent or manage weed resistance. Glyphosate weed resistance is a dominating threat throughout the U.S. that affects land values, rental agreements, conservation tillage and can greatly reduce yields. Use of Integrated Weed Management practices, such as use of residuals, pre-emergence herbicides and rotation of crops, traits and herbicides, is critical as no one method is likely to be completely successful.



To plant PowerCore Enlist, PowerCore Enlist Refuge Advanced, and Enlist Corn - REFUGE 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 a 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.

IRM - Properly managing trait technology is key to preserving it as a long term crop protection tool. Growers who fail to comply with IRM requirements risk losing access to this product. To help preserve the effectiveness of B.t. corn technologies, growers planting B.t. corn technologies are required to follow an IRM Plan. Consult the Corn Product Use Guide for appropriate refuge configuration options. Before opening a bag of seed, be sure to read, understand and accept the stewardship requirements, including applicable refuge requirements for insect resistance management, for the biotechnology traits expressed in the seed as set forth in the Technology Use Agreement and Product Use Guide. By opening and using a bag of seed, you are reaffirming your obligation to comply with the most recent stewardship requirements. For complete details on IRM requirements for hybrids with Bt technology, including refuge examples and important information on the use of insecticides on refuge and Bt corn acres, please consult appropriate Product Use Guide. Go to www.corteva.us/Resources/trait-stewardship.html to download the latest Corteva Agriscience Corn Product Use Guide.

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, Corteva Agriscience's product launch process for responsible launches of new products includes a long-standing 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.

Following burndown, Enlist Duo® and Enlist One® herbicides with Colex-D® technology are the only herbicides containing 2,4-D that are authorized for preemergence and postemergence use with Enlist® corn and soybeans. Consult Enlist® herbicide labels for weed species controlled. Enlist Duo and Enlist One herbicides are not registered for use or sale in all states and counties; are not registered in AK, CA, CT, HI, ID, MA, ME, MT, NH, NV, OR, RI, UT, VT, WA and WY; and have additional subcounty restrictions in AL, GA, TN and TX, while existing county restrictions still remain in FL. All users must check "Bulletins Live! Two" no earlier than six months before using Enlist One or Enlist Duo. To obtain "Bulletins," consult epa.gov/espp/, call 1-844-447-3813, or email ESPP@epa.gov. You must use the "Bulletin" valid for the month and state and county in which Enlist One or Enlist Duo are being applied. Contact your state pesticide regulatory agency if you have questions about the registration status of Enlist® herbicides in your area. 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. ONLY USE FORMULATIONS THAT ARE SPECIFICALLY LABELED FOR SUCH USE IN THE STATE OF APPLICATION. USE OF PESTICIDE PRODUCTS, INCLUDING, WITHOUT LIMITATION, 2,4-D-CONTAINING PRODUCTS NOT AUTHORIZED FOR USE WITH ENLIST CORN AND SOYBEANS, MAY RESULT IN OFF-TARGET DAMAGE TO SENSITIVE CROPS/AREAS AND/OR SUSCEPTIBLE PLANTS, IN ADDITION TO CIVIL AND/OR CRIMINAL PENALTIES. Additional product-specific stewardship requirements for Enlist crops, including the Enlist Product Use Guide, can be found at www.traitstewardship.com.

POWERCORE® is a registered trademark of Bayer Group. POWERCORE® multi-event technology developed by Corteva Agriscience and Bayer Group. Liberty®, LibertyLink® and the Water Droplet Design are registered trademarks of BASF. Roundup and Roundup Ready are registered trademarks of Bayer Group. Always follow IRM, grain marketing and all other stewardship practices and pesticide label directions. B.t. products may not yet be registered in all states. Check with your seed representative for the registration status in your state. Excellence Through Stewardship® is a registered trademark of Excellence Through Stewardship.™ * Trademarks of Corteva Agriscience and its affiliated companies.

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CORN TECHNOLOGY CONVERSION CHART

Base Genetics	Relative Maturity	Agrisure Viptera® 3110	Agrisure® GT	DroughtGard® Hybrids with VT Double PRO® Corn	DuracadeViptera™	PowerCore® Enlist®	Roundup Ready® Corn 2	SmartStax® Corn	SmartStax® RIB Complete® Corn Blend	SmartStax® PRO Complete® Corn Blend	Trecepta® Corn	Viptera® Refuge Renew™	VT Double PRO® Corn	VT4PRO™ with RNAI Technology Corn	Available as a Blended Refuge
Conv.	RM	VIP 3110	GT	VT2P	DV	PN	RR2	SS	SS	SP	TC	V	VT2	VT4P	Yes / No
	74												D14VC45		Yes
	79						D19RR89								No
	80												D20VC24		Yes
	81												D21VC81		Yes
	82											D22QZ42EZ			Yes
	82												D22VC62		Yes
	83												D23VC83		Yes
	85						D25RR66						D25VC66		Yes
	86												D26VC64		Yes
D27CC87	87						D27RR87						D27VC87		Yes
	88												D28VC33		Yes
	89												D29VC85		Yes
	91												D31VC23		Yes
	91												D31VC31		Yes
	92						D32RR41						D32VC41		Yes
D32CC56	92						D32RR56						D32VC56		Yes
	92								D32SS92						Yes
	93											D33QZ83EZ			Yes
D34CC52	94						D34RR52						D34VC52		Yes
	94												D34VC54		Yes
	94								D34SS93				D34VC93		Yes
	96												D36VC66		Yes
	97					D37PN35									Yes
	97								D37SS64				D37VC64		Yes
	98												D38VC38		Yes
	98												D38VC80		Yes
D39CC43	99			D39DC43											Yes
	99													D39VT75	Yes
	100												D40VC41		Yes
	101									D41SP23					Yes
	101										D41TC74				Yes

CORN TECHNOLOGY CONVERSION CHART

Base Genetics	Relative Maturity	Agrisure Viptera® 3110	Agrisure® GT	DroughtGard® Hybrids with VT Double PRO® Corn	Duracade Viptera™	PowerCore® Enlist®	Roundup Ready® Corn 2	SmartStax® Corn	SmartStax® RIB Complete® Corn Blend	SmartStax® PRO Complete® Corn Blend	Trecepta® Corn	Viptera® Refuge Renew™	VT Double PRO® Corn	VT4PRO™ with RNAi Technology Corn	Available as a Blended Refuge
Conv.	RM	VIP 3110	GT	VT2P	DV	PN	RR2	SS	SS	SP	TC	V	VT2	VT4P	Yes / No
	102								D42SS20						Yes
	103				D43QD08EZ										Yes
	103								D43SS81				D43VC81		Yes
D43CC85	103												D43VC85		Yes
D44CC25	104					D44PN25									Yes
	104								D44SS54						Yes
	104			D44DC73											Yes
	105									D45SP33					Yes
	105										D45TC55				Yes
D46CC62	107														No
D47CC29	107														No
	107								D47SS93						Yes
	108											D48QZ22EZ			Yes
	108								D48SS50						Yes
	108												D48VC84		Yes
D49CC05	109					D49PN05									Yes
	109												D49VC53		Yes
D49CC70	109						D49RR70		D49SS70				D49VC70		Yes
	109									D49SP83					Yes
	110									D50SP65					Yes
	110												D50VC09		Yes
	110												D50VC30		Yes
	110												D50VC78		Yes
	111								D51SS41						Yes
	111								D51SS61						Yes
	111												D51VC67		Yes
	111												D51VC95		Yes
	112												D52VC15		Yes
D52CC63	112								D52SS63				D52VC63		Yes
	112			D52DC82					D52SS82						Yes
D52CC91	112								D52SS91				D52VC91		Yes

Red = New Commercial Release

* Relative Maturity will vary with Trait Conversion

**Silage Only Hybrid

DYNAGROSEED.COM

CORN TECHNOLOGY CONVERSION CHART

Base Genetics	Relative Maturity	Agrisure Viptera® 3110	Agrisure® GT	DroughtGard® Hybrids with VT Double PRO® Corn	Duracade/Viptera™	PowerCore® Enlist®	Roundup Ready® Corn 2	SmartStax® Corn	SmartStax® RIB Complete® Corn Blend	SmartStax® PRO Complete® Corn Blend	Trecepta® Corn	Viptera® Refuge Renew™	VT Double PRO® Corn	VT4PRO™ with RNAi Technology Corn	Available as a Blended Refuge
Conv.	RM	VIP 3110	GT	VT2P	DV	PN	RR2	SS	SS	SP	TC	V	VT2	VT4P	Yes / No
D53CC13WX	113								D53SS13						Yes
	113										D53TC19				Yes
	113										D53TC23				Yes
D53CC33	113												D53VC33		Yes
	113												D53VC54		Yes
	113									D53SP85					Yes
	114						D54RR14						D54VC14		Yes
	114								D54SS34				D54VC34		Yes
	114							D54SS74							Yes
	115												D55VC45		No
	115	D55QC73													No
D55CC80	115												D55VC80		Yes
	116						D56RR44				D56TC44				Yes
	117												D57VC17		No
	117										D57TC29				Yes
D57CC51	117						D57RR51						D57VC51		Yes
	117												D57VC53		Yes
	117												D57VC75		Yes
	118												D58VC22		No
	118							D58SS65					D58VC65		Yes
	118	D58QC72													No
	118						D58RR74						D58VC74		Yes
	118						D58RR94				D58TC94				Yes
	120										D60TC45				Yes

The 2024-2025 Technology Conversion chart should not be used as an availability sheet. RIB products may or may not be available in products shown and other RIB versions may be available.

Red = New Commercial Release

* Relative Maturity will vary with Trait Conversion

**Silage Only Hybrid

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Industry Trait Chart

Trait Stack Name	Insects Controlled/ Number of Modes of Action			Herbicide Tolerance			Refuge Requirements
	Corn Borer	Broad Lep	Rootworm	RR	LL	FOPs	
Bayer CropScience							
Smartstax® RIB Complete® Corn Blend	XX	XX	XX	X	X		5% in the bag
Smartstax® PRO RIB Complete® Corn Blend	XX	XX	XX	X	X		5% in the bag
Trecepta RIB Complete® Corn Blend	XX	XXX		X			5% in the bag
VT Double PRO® RIB Complete® Corn Blend	XX	X		X			5% in the bag
VT4PRO™ RIB Corn Blend	XX	XX	XX	X			5% in the bag
Smartstax® Corn	XX	XX	XX	X	X		20% structured adjacent* in cotton regions
Trecepta®	XX	XX		X			20% structured within 1/2 mile in cotton regions
VT Double PRO® Corn	XX	X		X			20% structured within 1/2 mile in cotton regions
VT4PRO™ with RNAi Technology Corn	XX	XX	XX	X			20% structured within 1/2 mile in cotton regions
Corteva Agriscience							
PowerCore® Enlist® Refuge Advanced®	XX	XX		X	X	X	5% in the bag
PowerCore® Enlist®	XX	XX		X	X	X	20% Separate structured refuge in cotton region
Syngenta							
DuracadeViptera™	XX	XX	XX	X	X		5% in the bag, Cotton Growing Areas - 20% in field/adjacent
Viptera®	XX	XX		X			5% in the bag
Agrisure Artesian® 3011A	X		X	X	X		20% in field/adjacent
Agrisure Viptera® 3110	X	X		X	X		20% within 1/2 mile
Agrisure Viptera® 3111	X	X	X	X	X		20% in field/adjacent
Agrisure® 3000GT	X		X	X	X		20% in field/adjacent
Agrisure® Total Refuge Renew™	XX	X	XX	X			20% in field/adjacent

* 1/2 mile option for SmartStax® Corn is only available to growers in the following states: AK, AL, AR, AZ, CA, CT, DE, FL, GA, HI, ID, LA, MA, MD, ME, MS, MT, NC, NH, NJ, NM, NV, NY, OR, PA, RI, SC, TN, UT, VA, VT, WA, WV, WY

Insect Control Reference Guide

Letter Designation	Trait Logo	Product Registrant Trade Name	Trait Name Abbreviation	Bt Protein(s) & RNAi Technology	Refuge-NORTH	Refuge-COTTON GROWING areas
					Refuge % Location in Non-Cotton Growing Areas	Refuge % Location in Cotton Growing Areas
SS		SmartStax® Corn	SS	Cry1A.105, Cry2Ab2, Cry1F, Cry3Bb1, Cry34Ab1/Cry35Ab1	5% - Structured Adjacent	20% - Structured Adjacent
SS-RIB		SmartStax® RIB Complete® Corn Seed Blend	SS-RIB	Cry1A.105, Cry2Ab2, Cry1F, Cry3Bb1, Cry34Ab1/Cry35Ab1	RIB - 5%	20% Structured Adjacent (state restrictions apply)
SP-RIB		SmartStax® PRO RIB Complete® Corn Blend	SSP-RIB	Cry1A.105, Cry2Ab2, Cry1F, Cry3Bb1, Cry34Ab1/Cry35Ab1, includes RNAi Technology	RIB - 5%	Not Marketed
TC		Trecepta® RIB Complete® Corn Seed Blend	Trecepta	Cry1A.105, Cry2Ab2, Vip3A	RIB - 5%	20% - Structured within 1/2 Mile
VC		VT Double PRO® Corn	VT2P	Cry1A.105, Cry2Ab2	5% - Structured within 1/2 Mile	20% - Structured within 1/2 Mile
VC-RIB		VT Double PRO® RIB Complete® Corn Seed Blend	VT2P-RIB	Cry1A.105, Cry2Ab2	RIB - 5%	Not Marketed
VT4PRO-RIB		VT4PRO™ with RNAi Technology Corn	VT4PRO	Cry1A.105, Cry2Ab2, Vip3A, Cry3Bb1, DvSnf7, dsRNA	RIB - 5%	20% - Structured within 1/2 Mile
RR		Roundup Ready® Corn 2	RR2	NONE	NONE	NONE
QC		Agrisure Viptera® 3110 (Glyphosate Tolerant / Corn Borer / LibertyLink® (Agrisure Viptera® trait))	Agrisure Viptera 3110	Vip3A Cry1Ab	20% - Within, Adjacent or up to 1/2 Mile Away	20% - Within, Adjacent or up to 1/2 Mile Away
QZ		Viptera® Refuge Renew™	Viptera® Refuge Renew™	Vip3A, Cry1Ab, Cry1F	5% Within or Adjacent	Not Marketed
QD		DuracadeViptera™ Refuge Renew™	Duracade Viptera™	Cry1Ab, Cry1F, Vip3A, mCry3A, eCry3.1Ab	5% Within or Adjacent	20% - Within or Adjacent
GT		Agrisure® GT (Glyphosate Tolerant)	Agrisure GT	NONE	20% Within or Adjacent	20% Within or Adjacent
PN		PowerCore® Enlist®	PowerCore® Enlist®	Cry1A.105, Cry2ab2, CryIF	5% - Structured within 1/2 Mile	20% - Structured Adjacent
PN-RA		PowerCore® Enlist® Refuge Advanced®	PowerCore® Enlist® Refuge Advanced®	Cry1A.105, Cry2ab2, CryIF	5% - Structured within 1/2 Mile	20% - Structured Adjacent
CC		Conventional Corn	Conventional	NONE	NONE	NONE

Insects Controlled / Amount of Insect Control:							
European Corn Borer (stalks)	Southwestern Corn Borer (stalks)	Northern Corn Rootworm (roots)	Western Corn Rootworm (roots)	Fall Armyworm (whorl)	Western Bean Cutworm	Black Cutworm (seedling)	Corn Earworm (ear)
							
							
E	E	VG-E	VG-E	E	P	G-VG	G-VG
E	E	VG-E	VG-E	E	P	G-VG	G-VG
E	E	VG-E	VG-E	E	P	G-VG	G-VG
E	E	NC	NC	E	E	E	E
E	E	NC	NC	E	NC-P	P	G-VG
E	E	NC	NC	E	NC-P	P	G-VG
E	E	NC	G-VG	E	E	E	E
NC	NC	NC	NC	NC	NC	NC	NC
E	E	NC	NC	E	E	G	E
E	E	NC	NC	VG	E	VG	E
E	E	VG	VG	–	–	E	E
NC	NC	NC	NC	NC	NC	NC	NC
VG	VG	–	–	–	F	G	VG
VG	VG	–	–	–	F	G	VG
NC	NC	NC	NC	NC	NC	NC	NC

RATING SCALE:

E = Excellent
 VG = Very Good
 G = Good
 F = Fair
 P = Poor ~ 30% Control or Less
 NC = No Control

ROOTWORM MANAGEMENT NOTE:

For best control of high population rootworm following corn-on-corn fields, use a dual mode in plant protection B.t. such as SmartStax® or SmartStax® PRO combined with a planting time insecticide or apply a beetle control the previous season.

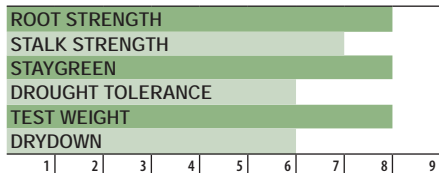
RIB = Refuge In a Bag. Insect ratings from University of Georgia and Clemson.

The data in this table is for reference only. Always verify the respective seed tag and/or technology use guide for the current IRM requirements and product information.

	PRODUCT						PLANTING		GROWTH						
	Dyna-Gro Brand	RM	Technology	Available Refuge Blend	Hybrid Family	GDU	Planting Population	Emergence	Seedling Vigor	Plant Height	Ear Height	Ear Flex	Drought Tolerance	Greensnap	Stalk Strength
NEW	D14VC45RIB	74	VT2P-RIB	Yes	D14VC45	1894	N/A	7	7	M/T	MH	Semi-Det	6	7	7
	D19RR89	79	RR2	No	D19VC89	1950	28-32	6	7	M	M	Semi-Flex	7	7	7
	D20VC24RIB	80	VT2P-RIB	Yes	D20VC24	2098	32-36	7	5	M/T	MH	Semi-Flex	5	5	5
	D21VC81RIB	81	VT2P-RIB	Yes	D21VC81	2030	28-34	8	8	M/T	M	Semi-Det	7	8	7
	D22QZ42EZ	82	3220A E-Z Vip	Yes	D22QZ42	2020	28-34	7	7	M/T	M	Semi-Flex	8	7	6
	D22VC62RIB	82	VT2P-RIB	Yes	D22VC62	2020	34-38	7	8	M/S	M	Determinate	5	8	7
	D23VC83RIB	83	VT2P-RIB	Yes	D23VC83	2060	28-34	7	8	M/S	M	Semi-Flex	6	7	8
	D25RR66	85	RR2	No	D25VC66	2090	32-38	7	7	M/T	M	Semi-Det	8	7	7
	D25VC66RIB	85	VT2P-RIB	Yes	D25VC66	2090	32-38	7	7	M/T	M	Semi-Det	8	7	7
	D26VC64RIB	86	VT2P-RIB	Yes	D26VC64	2210	32-36	7	7	M	M	Semi-Flex	5	5	7

74 RM D14VC45RIB Brand Available RIB: Yes

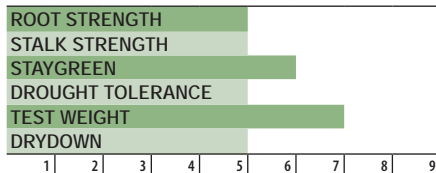
NEW CORN

VtDoublePRO[®]
RIB COMPLETE

- Hybrid with solid agronomics for northern movement
- Very good early season vigor and germination for quick stand establishment
- High eye appeal in season with nice late season intactness
- Strong foliar disease package

80 RM D20VC24RIB Brand Available RIB: Yes

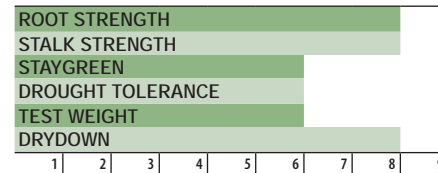
CORN

VtDoublePRO[®]
RIB COMPLETE

- Great anthracnose stalk rot tolerance
- Good test weight
- Benefits from fungicide in high pressure gray leaf spot and northern corn leaf blight areas

83 RM D23VC83RIB Brand Available RIB: Yes

CORN

VtDoublePRO[®]
RIB COMPLETE

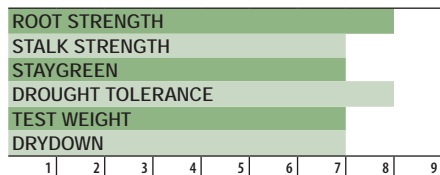
- Widely adapted across 80-85 RM zone with top yield potential
- Medium-short plant with good early vigor and early flowering
- Very good Goss's wilt tolerance and good northern leaf blight
- Good standability with very good stalks and roots
- Adapted to variable and ideal soils

Root Strength	HARVEST							DISEASE TOLERANCE										PRODUCT
	Test Weight	Grain Drydown	Staygreen	Husk Coverage	Dual Purpose	Silage Select™	Gray Leaf Spot	Goss's Wilt	N. Leaf Blight	S. Leaf Blight	Eye Spot	Tar Spot	Common Rust	Southern Rust	Anthraxnose	Leaf Anthracnose	Dyna-Gro Brand	
8	8	6	8	Adequate	N/A	N/A	6	6	7	7	8	6	7	5	8	7	D14VC45RIB	
7	7	8	8	Adequate	R	No	7	3	7	N/A	N/A	N/A	N/A	N/A	7	7	D19RR89	
5	7	5	6	Adequate	N/A	N/A	4	5	6	7	6	5	7	4	8	N/A	D20VC24RIB	
8	7	8	7	Short	HR	Yes	6	6	7	N/A	N/A	N/A	N/A	N/A	5	6	D21VC81RIB	
7	7	6	8	Medium	R	No	N/A	6	5	N/A	7	N/A	N/A	N/A	N/A	N/A	D22QZ42EZ	
9	7	8	6	Adequate	NR	No	N/A	5	8	N/A	8	N/A	7	N/A	5	6	D22VC62RIB	
8	6	8	6	Short	NR	No	6	8	7	N/A	N/A	N/A	N/A	N/A	8	7	D23VC83RIB	
8	7	7	7	Medium	R	No	5	7	7	N/A	5	3	7	N/A	7	6	D25RR66	
8	7	7	7	Medium	R	No	5	7	7	N/A	5	3	7	N/A	7	6	D25VC66RIB	
7	5	7	5	Adequate	N/A	N/A	6	5	5	7	7	5	7	4	6	N/A	D26VC64RIB	

85 RM D25VC66RIB Brand

Available RIB: Yes

CORN


VTDoublePRO
RIB COMPLETE

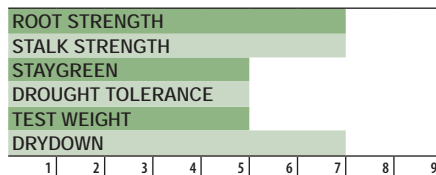
- Western adapted with top stress tolerance for maturity
- Consistent yield performance with fast grain drydown
- Excellent late season staygreen and intactness
- Widely adapted with very good drought tolerance
- Very good stalks and roots

Other hybrid within family: D25RR66

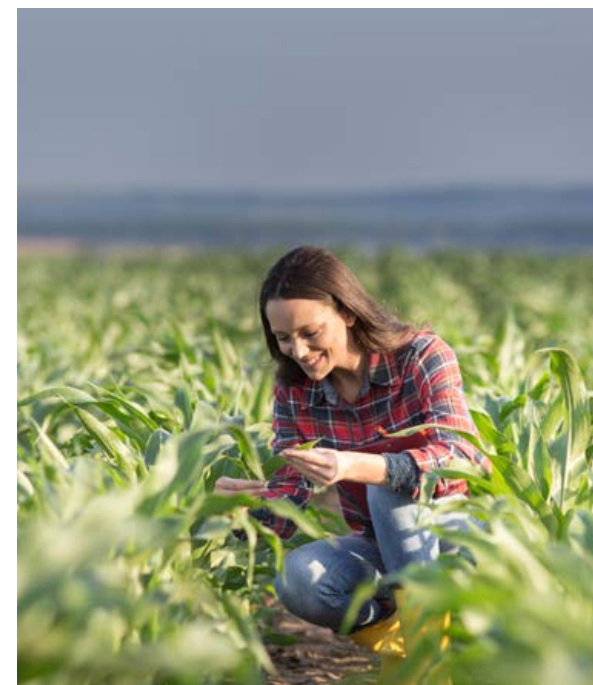
86 RM D26VC64RIB Brand

Available RIB: Yes

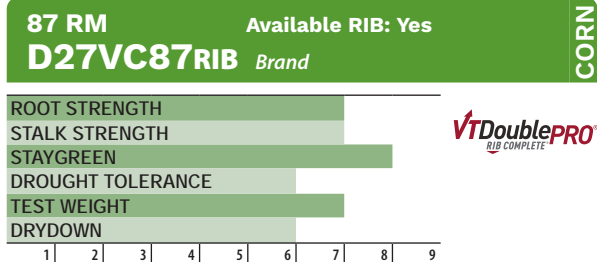
CORN


VTDoublePRO
RIB COMPLETE

- Great stalks and roots
- Keep in zone and north
- Girthy semi-flex ear
- Medium plant and ear height with very good standability

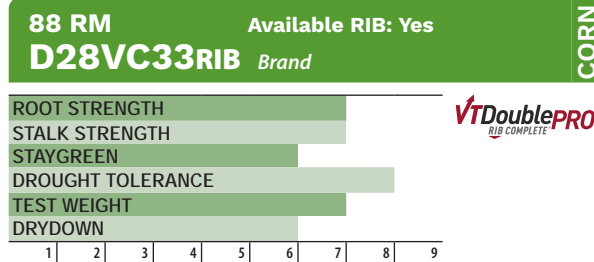


	PRODUCT						PLANTING		GROWTH							
	Dyna-Gro Brand	RM	Technology	Available Refuge Blend	Hybrid Family	GDU	Planting Population	Emergence	Seedling Vigor	Plant Height	Ear Height	Ear Flex	Drought Tolerance	Greensnap	Stalk Strength	
	D26VC72RIB	86	VT2P-RIB	Yes	D26VC72	2060	30-38	7	8	M	M	Semi-Det	6	7	9	
	D27CC87	87	Conventional	No	D27VC87	2070	32-38	7	8	M/T	M	Semi-Det	6	7	7	
	D27RR87	87	RR2	No	D27VC87	2070	32-38	7	8	M/T	M	Semi-Det	6	7	7	
	D27VC87RIB	87	VT2P-RIB	Yes	D27VC87	2070	32-38	7	8	M/T	M	Semi-Det	6	7	7	
	D28VC33RIB	88	VT2P-RIB	Yes	D28VC33	2120	32-38	7	7	M/S	ML	Semi-Flex	8	7	7	
NEW	D29VC85RIB	89	VT2P-RIB	Yes	D29VC85	2067	N/A	8	8	M	M	Semi-Flex	8	6	7	
	D31VC23RIB	91	VT2P-RIB	Yes	D31VC23	2290	32-38	7	8	M/T	M	Semi-Flex	6	7	7	
	D31VC31RIB	91	VT2P-RIB	Yes	D31VC31	2200	32-38	8	7	M	M	Semi-Det	8	8	8	
	D32CC56	92	Conventional	No	D32SS56	2290	32-38	7	8	M/T	M	Semi-Flex	7	6	7	
	D32RR41	92	RR2	No	D32VC41	2260	32-38	6	7	T	M	Semi-Flex	8	7	6	

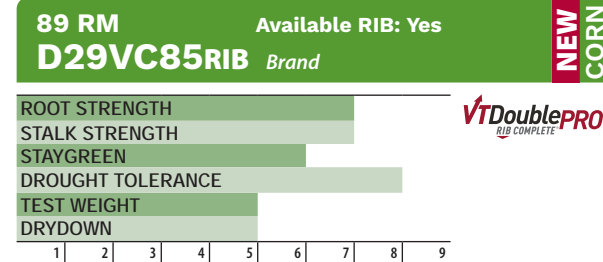


- Offers a balance of yield stability and top-end performance
- Medium-tall with good stalks and good roots
- Very good early vigor and tolerant of high populations
- Semi-determinate and girthy ear type
- Very good eyespot and good northern leaf blight tolerance

Other hybrids within family: D27CC87, D27RR87



- Tough acre option in late 80s RM
- Solid agronomics and yield stability
- Moderate plant stature
- Moves south of RM zone

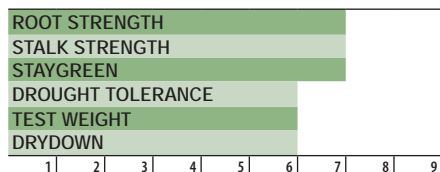


- Hybrid that brings performance across a broad footprint
- Very good drought tolerance
- Hybrid that handles the stress acre and low yield environments
- Best performance in Central and East Regions
- Dual purpose potential for very early RM silage markets

Root Strength	HARVEST							DISEASE TOLERANCE										PRODUCT	
	Test Weight	Grain Drydown	Staygreen	Husk Coverage	Dual Purpose	Silage Select™	Gray Leaf Spot	Goss's Wilt	N. Leaf Blight	S. Leaf Blight	Eye Spot	Tar Spot	Common Rust	Southern Rust	Anthraxnose	Leaf Anthracnose	Dyna-Gro Brand		
8	7	8	8	Adequate	HR	Yes	6	6	7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	D26VC72RIB		
7	7	6	8	Long	R	No	5	6	7	N/A	8	6	8	5	7	6	D27CC87		
7	7	6	8	Long	R	No	5	6	7	N/A	8	6	8	5	7	6	D27RR87		
7	7	6	8	Long	R	No	5	6	7	N/A	8	6	8	5	7	6	D27VC87RIB		
7	7	6	6	Long	HR	Yes	6	6	8	N/A	N/A	3	7	N/A	7	7	D28VC33RIB		
7	5	5	6	Adequate	R	N/A	5	5	6	7	7	4	8	5	5	6	D29VC85RIB		
7	6	6	7	Adequate	R	No	7	7	7	N/A	N/A	5	7	N/A	7	7	D31VC23RIB		
8	7	7	7	Medium	R	No	5	5	8	8	7	3	N/A	N/A	7	8	D31VC31RIB		
8	7	8	7	Adequate	HR	Yes	6	6	6	N/A	7	5	7	N/A	7	7	D32CC56		
7	6	7	6	Adequate	HR	No	N/A	8	7	N/A	9	5	8	N/A	7	7	D32RR41		

91 RM D31VC23RIB Available RIB: Yes Brand

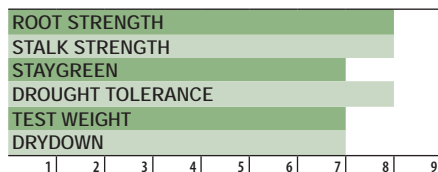
CORN


VTDoublePRO
RIB COMPLETE

- Strong yield potential in early 90s RM zone
- Good ear flex and kernel depth
- Solid disease package with very good ratings for Goss' wilt, northern corn leaf blight, and gray leaf spot
- Very good standability

91 RM D31VC31RIB Available RIB: Yes Brand

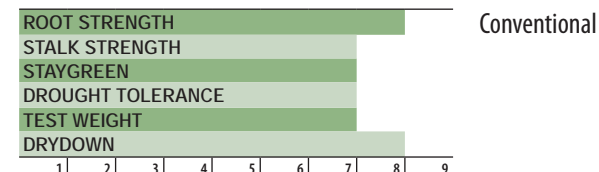
CORN


VTDoublePRO
RIB COMPLETE

- Consistent yield under stress, with multiple year performance
- Very good stalks and roots
- Adapted to a wide population range depending on yield level
- Good drought tolerance

92 RM D32CC56 Available RIB: No Brand

CORN



Conventional

- High multi-year yield performance across west to east geography
- Medium-tall plant and medium ear height with good stress tolerance
- Good stalks and roots, good early vigor and emergence
- Widely adapted, good fungicide response

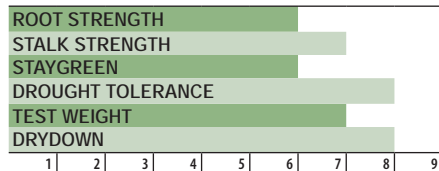
Other hybrids within family: D32RR56; D32VC56RIB

PRODUCT							PLANTING		GROWTH							
	Dyna-Gro Brand	RM	Technology	Available Refuge Blend	Hybrid Family	GDU	Planting Population	Emergence	Seedling Vigor	Plant Height	Ear Height	Ear Flex	Drought Tolerance	Greensnap	Stalk Strength	
D32RR56		92	RR2	No	D32SS56	2290	32-38	7	8	M/T	M	Semi-Flex	7	6	7	
D32SS92RIB		92	SS-RIB	Yes	D32SS92	2270	32-38	8	9	M/T	MH	Semi-Det	8	7	7	
D32VC41RIB		92	VT2P-RIB	Yes	D32VC41	2260	32-38	6	7	T	M	Semi-Flex	8	7	6	
D32VC56RIB		92	VT2P-RIB	Yes	D32SS56	2290	32-38	7	8	M/T	M	Semi-Flex	7	6	7	
D33QZ83EZ		93	3220A E-Z Vip	Yes	D33QZ83	2400	N/A	8	8	M/T	M	Semi-Det	8	7	7	
D34CC52		94	Conventional	No	D34VC52	2360	34-40	7	8	M/S	ML	Determinate	8	7	8	
D34RR52		94	RR2	No	D34VC52	2360	34-40	7	8	M/S	ML	Determinate	8	7	8	
D34SS93RIB		94	SS-RIB	Yes	D34SS93	2387	34-38	8	8	M/T	MH	Semi-Flex	6	7	7	
D34VC52RIB		94	VT2P-RIB	Yes	D34VC52	2360	34-40	7	8	M/S	ML	Determinate	8	7	8	
D34VC54RIB		94	VT2P-RIB	Yes	D34VC54	2310	34-40	7	7	M/T	M	Semi-Flex	7	6	7	

92 RM Available RIB: Yes

D32SS92RIB Brand

CORN



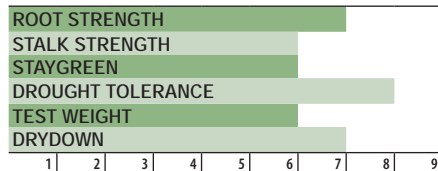
SmartStax
RIB COMPLETE

- SmartStax® yield leader in the early 90's RM range
- Medium-tall plant with excellent early vigor
- Good tolerance for Goss's wilt and northern leaf blight
- Excels in variable and ideal soils and has very good drought tolerance
- Girthy ear type, 16-18 kernel rows with above average test weight grain

92 RM Available RIB: Yes

D32VC41RIB Brand

CORN



VTDoublePRO
RIB COMPLETE

- Adapted east to west with top yields and excellent plant health
- Good early plant vigor and plant health, taller plant type
- Girthy semi-flex ear with very good drydown and good husk coverage
- Best positioned in zone and south, good drought tolerance
- Excellent eyespot, very good Goss's wilt, and good northern leaf blight tolerance

Other hybrids within family: D32RR41

93 RM Available EZ: Yes

D33QZ83EZ Brand

CORN



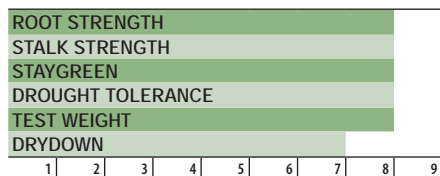
Viptera
REFUGE RENEW

- Widely adapted east to west
- Works well across all planting populations
- Strong performance from low to high yield environments
- Excellent stalks
- Strong emergence and early season vigor

Root Strength	HARVEST							DISEASE TOLERANCE										PRODUCT	
	Test Weight	Grain Drydown	Staygreen	Husk Coverage	Dual Purpose	Silage Select™	Gray Leaf Spot	Goss's Wilt	N. Leaf Blight	S. Leaf Blight	Eye Spot	Tar Spot	Common Rust	Southern Rust	Anthracnose	Leaf Anthracnose	Dyna-Gro Brand		
8	7	8	7	Adequate	HR	Yes	6	6	6	N/A	7	N/A	7	N/A	7	7	D32RR56		
6	7	8	6	Adequate	HR	No	6	7	7	N/A	N/A	N/A	N/A	6	9	8	D32SS92RIB		
7	6	7	6	Adequate	HR	No	N/A	8	7	N/A	9	N/A	8	N/A	7	7	D32VC41RIB		
8	7	8	7	Adequate	HR	Yes	6	6	6	N/A	7	5	7	N/A	7	7	D32VC56RIB		
6	6	7	6	Medium	R	No	N/A	6	6	N/A	N/A	N/A	N/A	N/A	6	6	D33QZ83EZ		
8	8	7	8	Medium	NR	No	6	7	7	N/A	8	N/A	8	N/A	7	7	D34CC52		
8	8	7	8	Medium	NR	No	6	7	7	N/A	8	N/A	8	N/A	7	7	D34RR52		
6	6	6	6	Adequate	N/A	No	5	5	6	8	7	5	8	5	8	8	D34SS93RIB		
8	8	7	8	Medium	NR	No	6	7	7	N/A	8	N/A	8	N/A	7	7	D34VC52RIB		
6	6	8	6	Adequate	HR	Yes	6	7	6	N/A	8	N/A	8	N/A	6	6	D34VC54RIB		

97 RM D34RR52 Brand

CORN

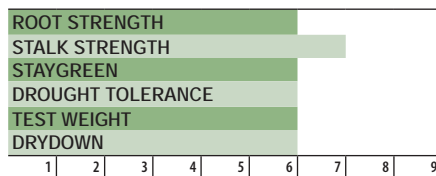


- Consistent yield performance with outstanding agronomics
- Shorter plant with excellent drought tolerance and low greensnap risk
- Very good test weight and late season health
- Excellent corn on corn option with good northern leaf blight, eyespot, and Goss's wilt tolerance

Other hybrids within family: D34CC53; D34VC52RIB

94 RM D34SS93RIB Brand

CORN

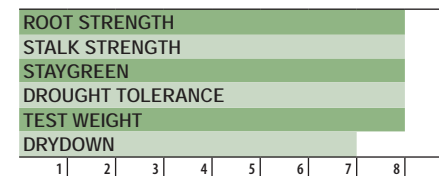


- Consistent ear size with good tip fill
- Tall/robust plant stature, with very good late season plant intactness and eye appeal
- New SmartStax® at 94 RM
- Manage placement in Goss's wilt prone areas

Other hybrids within family: D34VC93RIB

94 RM D34VC52RIB Brand

CORN



- Consistent yield performance with outstanding agronomics
- Shorter plant with excellent drought tolerance and low greensnap risk
- Very good test weight and late season health
- Excellent corn on corn option with good northern leaf blight, eye spot, and Goss's wilt tolerance

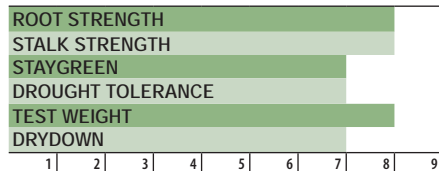
Other hybrids within family: D34CC52, D34RR52

	PRODUCT						PLANTING		GROWTH						
	Dyna-Gro Brand	RM	Technology	Available Refuge Blend	Hybrid Family	GDU	Planting Population	Emergence	Seeding Vigor	Plant Height	Ear Height	Ear Flex	Drought Tolerance	Greensnap	Stalk Strength
	D34VC93RIB	94	VT2P-RIB	Yes	D34VC93	2387	34-38	8	8	M/T	MH	Semi-Flex	6	7	7
	D36VC66RIB	96	VT2P-RIB	Yes	D36VC66	2350	34-38	7	8	M/T	MH	Semi-Flex	7	6	8
NEW	D37PN35RA	97	PowerCore Enlist	Yes	D37PN35	2400	30-36	7	7	M	M	Semi-Flex	6	7	7
	D37SS64RIB	97	SS-RIB	Yes	D37VC64	2360	34-40	8	8	M/T	M	Semi-Flex	7	7	7
	D37VC64RIB	97	VT2P-RIB	Yes	D37VC64	2360	34-40	8	8	M/T	M	Semi-Flex	7	7	7
	D38VC38RIB	98	VT2P-RIB	Yes	D38VC38	2390	30-38	7	8	M/T	MH	Semi-Flex	7	8	8
	D38VC80RIB	98	VT2P-RIB	Yes	D38VC80	2390	30-38	7	8	M/T	M	Semi-Flex	7	7	6
	D39CC43	99	Conventional	No	D39DC43	2460	32-38	8	8	M	ML	Semi-Flex	8	8	9
	D39DC43RIB	99	DG/VT2P-RIB	Yes	D39DC43	2460	32-38	8	8	M	ML	Semi-Flex	8	8	9

96 RM D36VC66RIB Brand

Available RIB: Yes

CORN

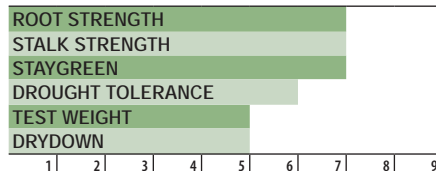
VtDoublePRO[®]
RIB COMPLETE

- Highest yield for maturity
- Taller plant type with outstanding stalks and roots
- Very good early vigor and tolerance for anthracnose stalk rot
- Widely adapted in zone, best central Minnesota and east
- Average for Goss's wilt, gray leaf spot, and northern leaf blight

97 RM D37PN35RA Brand

Available RA: Yes

NEW CORN

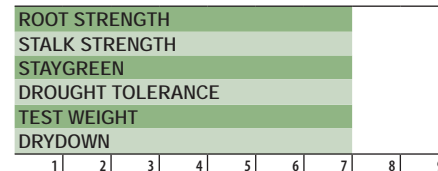
POWERCORE[®]
Enlist[®]
REFUGES ADVANCED

- PowerCore[®] Enlist[®] offering with great agronomics
- Dual purposed product with great late season appearance
- Manage for high yield on average and better soil types
- Keep in zone and north

97 RM D37SS64RIB Brand

Available RIB: Yes

CORN

SmartStax[®]
RIB COMPLETE

- Consistent high yield potential for maturity
- Strong emergence and excellent early vigor
- Semi-flex girthy ear with high test weight grain
- Good tolerance for eyespot, common rust, and northern leaf blight, average for Goss's wilt
- Medium-tall stature

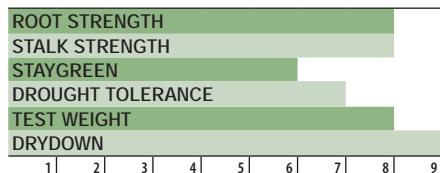
Other hybrid within family: D37VC64RIB

Root Strength	HARVEST							DISEASE TOLERANCE										PRODUCT	
	Test Weight	Grain Drydown	Staygreen	Husk Coverage	Dual Purpose	Silage Select™		Gray Leaf Spot	Goss's Wilt	N. Leaf Blight	S. Leaf Blight	Eye Spot	Tar Spot	Common Rust	Southern Rust	Anthracnose	Leaf Anthracnose	Dyna-Gro Brand	
6	6	6	6	Adequate	HR	Yes		5	5	6	8	7	5	8	5	8	8	D34VC93RIB	
8	8	7	7	Adequate	HR	No		6	6	6	N/A	N/A	6	N/A	N/A	8	7	D36VC66RIB	
7	5	5	7	Med-long	HR	No		5	5	5	N/A	N/A	5	N/A	N/A	N/A	N/A	D37PN35RA	
7	7	7	7	Short	R	No		6	6	7	8	8	N/A	N/A	6	8	7	D37SS64RIB	
7	7	7	7	Short	R	No		6	6	7	8	8	N/A	N/A	6	8	7	D37VC64RIB	
8	8	9	6	Short	HR	No		7	7	7	N/A	8	N/A	N/A	N/A	7	7	D38VC38RIB	
7	7	7	8	Long	R	No		6	8	6	7	N/A	5	N/A	N/A	N/A	N/A	D38VC80RIB	
8	6	7	7	Long	HR	Yes		6	8	7	N/A	8	N/A	8	N/A	6	6	D39CC43	
8	6	7	7	Long	HR	Yes		6	8	7	N/A	8	N/A	8	N/A	6	6	D39DC43RIB	

98 RM D38VC38RIB Brand

Available RIB: Yes

CORN

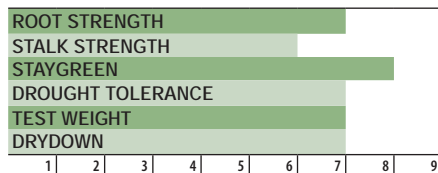

VTDoublePRO
RIB COMPLETE

- Stable yields with outstanding agronomics and fast grain drydown
- Very good early vigor
- Medium-tall plant with strong stalks and excellent roots
- High test weight grain on a semi-flex ear type

98 RM D38VC80RIB Brand

Available RIB: Yes

CORN

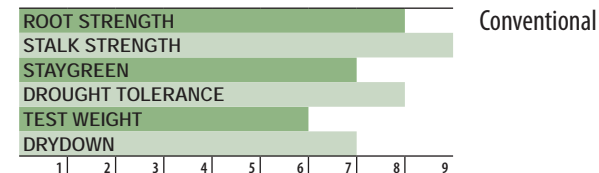

VTDoublePRO
RIB COMPLETE

- Widely adapted east to west
- Good Goss's wilt with low greensnap risk for western placement
- Moderately tall plant with medium girthy ear type
- Adapted in high to low yield environments

99 RM D39CC43 Brand

Available RIB: No

CORN



Conventional

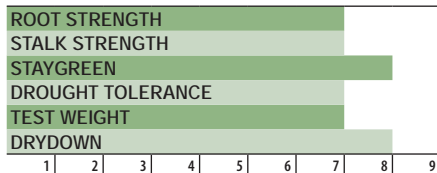
- Conventional with very good natural drought tolerance
- Very good eyespot and Goss's wilt, good northern leaf blight and low greensnap risk
- Very good early vigor and semi-flex ear with average test weights
- Excellent stalks with very good roots; best in zone and south

Other hybrids within family: D39DC43RIB

	PRODUCT						PLANTING		GROWTH						
	Dyna-Gro Brand	RM	Technology	Available Refuge Blend	Hybrid Family	GDU	Planting Population	Emergence	Seeding Vigor	Plant Height	Ear Height	Ear Flex	Drought Tolerance	Greensnap	Stalk Strength
NEW	D39VT75RIB	99	VT4P-RIB	Yes	D39VT75	2419	30-36	7	7	M	M	Semi-Flex	7	7	7
	D40VC41RIB	100	VT2P-RIB	Yes	D40VC41	2480	32-38	7	7	M	M	Semi-Flex	6	7	7
	D41SP23RIB	101	SSP-RIB	Yes	D41SP23	2510	30-36	6	6	M/T	MH	Semi-Flex	5	6	7
	D41TC74RIB	101	Trecepta	Yes	D41TC74	2555	34-36	5	5	M	M	Semi-flex	7	6	7
	D42SS20RIB	102	SS-RIB	Yes	D42SS20	2440	32-38	8	8	M/T	MH	Semi-Det	7	7	8
	D43CC85	103	Conventional	No	D43CC85	2460	32-38	7	8	M/T	M	Semi-Flex	7	8	8
	D43QD08EZ	103	5222 E-Z	Yes	D43QD08	2490	32-38	7	8	T	MH	Semi-Flex	6	7	6
	D43SS81RIB	103	SS-RIB	Yes	D43VC81	2480	32-38	7	8	T	MH	Semi-Flex	6	8	8
	D43VC81RIB	103	VT2P-RIB	Yes	D43VC81	2470	32-38	7	8	T	MH	Semi-Flex	6	8	8

99 RM D39VT75RIB Brand

Available RIB: Yes

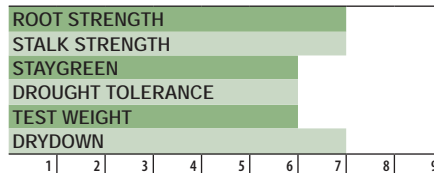
NEW
CORNVT4PRO[™]
RIB COMPLETE

- VT4PRO[™] RIB Complete[®] offering strong performance across a broad footprint
- Good agronomics with standability and drought tolerance
- Very good staygreen and eye-appeal at harvest
- Keep in zone and north

100 RM D40VC41RIB Brand

Available RIB: Yes

CORN

VTDoublePRO[™]
RIB COMPLETE

- Medium stature with very good standability
- Widely adapted, north to south and east to west
- Girthy ear with 18-20 kernel rows
- Dominant yield performance in 100 day range

101 RM D41SP23RIB Brand

Available RIB: Yes

CORN

SmartStaxPRO[™]
RIB COMPLETE

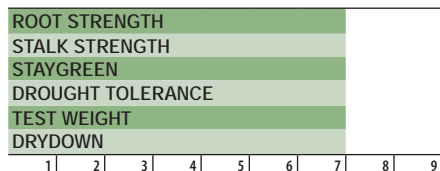
- Semi-flex ear style responds well to moderate planting populations
- Very good stalks
- Responds well to high management

Root Strength	HARVEST							DISEASE TOLERANCE										PRODUCT
	Test Weight	Grain Drydown	Staygreen	Husk Coverage	Dual Purpose	Silage Select™	Gray Leaf Spot	Goss's Wilt	N. Leaf Blight	S. Leaf Blight	Eye Spot	Tar Spot	Common Rust	Southern Rust	Anthracnose	Leaf Anthracnose	Dyna-Gro Brand	
7	7	8	8	Adequate	NR	No	6	5	5	8	8	5	8	5	8	8	D39VT75RIB	
7	6	7	6	Medium	HR	No	6	6	6	6	N/A	5	8	N/A	7	7	D40VC41RIB	
6	5	6	5	Short	NR	No	5	6	6	7	8	6	8	5	8	8	D41SP23RIB	
7	7	7	7	Adequate	HR	No	7	5	4	N/A	N/A	6	7	N/A	7	7	D41TC74RIB	
8	7	7	8	Adequate	HR	No	6	6	7	N/A	N/A	N/A	N/A	N/A	7	7	D42SS20RIB	
8	7	7	7	Short	R	No	6	8	7	8	N/A	5	7	N/A	6	6	D43CC85	
7	8	7	8	Adequate	R	No	5	7	7	6	7	N/A	6	5	5	N/A	D43QD08EZ	
8	6	8	7	Short	HR	Yes	7	7	7	8	8	3	N/A	6	7	6	D43SS81RIB	
8	6	8	7	Short	HR	Yes	7	7	7	8	8	3	N/A	6	7	6	D43VC81RIB	

101 RM D41TC74RIB Brand

Available RIB: Yes

CORN


Trecepta
RIB COMPLETE

- Good late season intactness and staygreen
- Good stalks and roots
- Handles all but highest stress environments

103 RM D43CC85 Brand

Available RIB: No

CORN



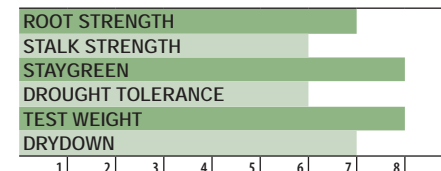
- Widely adapted with high test weight grain
- Medium-tall with very good stalks and roots, good early vigor
- Excellent western characteristics, good drought tolerance, very good Goss's wilt
- Long ears and good kernel depth
- Good fall appearance and late season integrity with fast drydown

Other hybrids within family: D43VC85RIB

103 RM D43QD08EZ Brand

Available EZ: Yes

CORN


Duracade
Viptera
ADVANCED PROTECTION

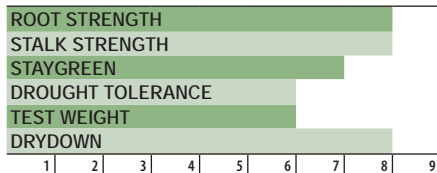
- Moderately tall with good roots and consistent high yield
- Top intactness late season and good plant health with average gray leaf spot
- Very good test weight and average grain drydown
- Widely adapted, best positioned in zone and north in rootworm areas

	PRODUCT						PLANTING		GROWTH						
	Dyna-Gro Brand	RM	Technology	Available Refuge Blend	Hybrid Family	GDU	Planting Population	Emergence	Seedling Vigor	Plant Height	Ear Height	Ear Flex	Drought Tolerance	Greensnap	Stalk Strength
	D43VC85RIB	103	VT2P-RIB	Yes	D43VC85	2460	32-38	7	8	M/T	M	Semi-Flex	7	8	8
NEW	D44CC25	104	Conventional	No	D44PN25	2507	32-36	7	7	M/T	MH	Flex	6	8	8
	D44DC73RIB	104	DG / VT2P-RIB	Yes	D44DC73	2600	30-36	7	7	M/T	M	Flex	8	8	8
NEW	D44PN25RA	104	PowerCore Enlist	Yes	D44PN25	2507	32-36	7	7	M/T	MH	Flex	6	8	8
	D44SS54RIB	104	SS-RIB	Yes	D44SS54	2560	34-38	7	8	M	M	Semi-Det	8	7	8
	D45SP33RIB	105	SSP-RIB	Yes	D45SP23	2540	32-36	7	7	M	M	Semi-Det	6	7	6

103 RM D43VC81RIB Brand

Available RIB: Yes

CORN

VTDoublePRO[®]
RIB COMPLETE

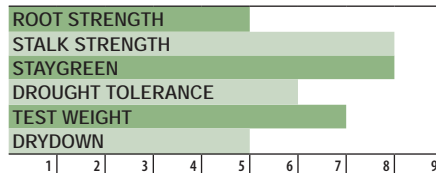
- Very good stalks, roots, and late season intactness
- Top plant health and semi-flex ear type
- Widely adapted geographically and adapted to a wide range of plant population
- Taller plant type and a good silage option

Other hybrids within family: D43SS81RIB

104 RM D44CC25 Brand

Available RIB: No

NEW CORN



Conventional

- New conventional offering with one of the best tar spot resistance ratings in this RM range
- Goss's wilt and greensnap ratings help western movement
- Great staygreen and intactness

Other hybrids within family: D44PN25RA

104 RM D44DC73RIB Brand

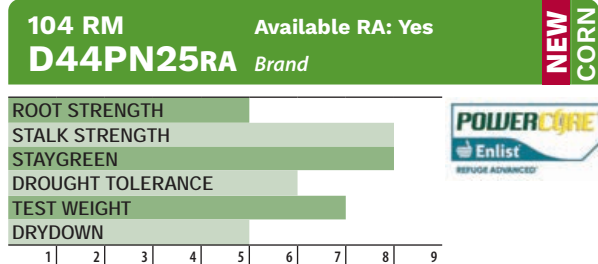
Available RIB: Yes

CORN

DroughtGard[®]
HYBRIDS
VTDoublePRO[®]
RIB COMPLETE

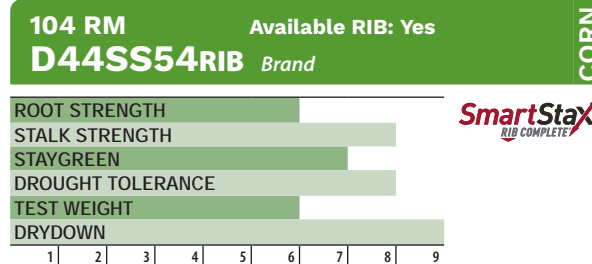
- Widely adapted geographically and across all soil types
- Long ears with good tip fill and kernel depth
- Solid agronomic with good drought tolerance and minimal greensnap

Root Strength	HARVEST							DISEASE TOLERANCE										PRODUCT	
	Test Weight	Grain Drydown	Staygreen	Husk Coverage	Dual Purpose	Silage Select™	Gray Leaf Spot	Goss's Wilt	N. Leaf Blight	S. Leaf Blight	Eye Spot	Tar Spot	Common Rust	Southern Rust	Anthracnose	Leaf Anthracnose	Dyna-Gro Brand		
8	7	7	7	Short	R	No	6	8	7	8	N/A	5	7	N/A	6	6	D43VC85RIB		
5	7	5	8	Med-long	HR	Yes	7	8	7	N/A	N/A	7	N/A	N/A	N/A	N/A	D44CC25		
6	6	6	5	Adequate	R	No	7	8	6	N/A	N/A	3	7	N/A	6	6	D44DC73RIB		
5	7	5	8	Med-long	HR	Yes	7	8	7	N/A	N/A	7	N/A	N/A	N/A	N/A	D44PN25RA		
6	6	9	7	Medium	NR	No	6	6	8	N/A	N/A	5	N/A	4	8	7	D44SS54RIB		
6	5	6	6	Adequate	NR	No	5	6	6	7	6	5	8	5	8	7	D45SP33RIB		

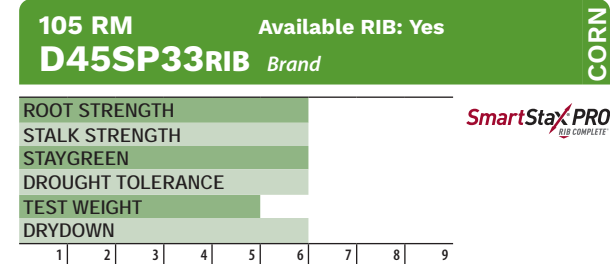


- PowerCore® Enlist® offering with one of the best tar spot scores
- Dual purpose product with great stalks
- Goss's wilt and greensnap ratings help western movement
- Great staygreen and intactness

Other hybrids within family: D44CC25



- Widely adapted, best fit is central and east, manage for Goss's wilt going west
- Medium plant height with good stalks and drought tolerance
- Good emergence and seedling vigor
- Recommended for corn following corn with a fungicide

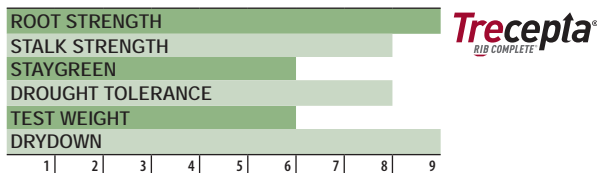


- Great SmartStax PRO® option for corn on corn acres
- Good early plant vigor and yield potential
- Medium statured plant with good standability
- Manage placement in Goss's wilt prone areas

	PRODUCT						PLANTING		GROWTH						
	Dyna-Gro Brand	RM	Technology	Available Refuge Blend	Hybrid Family	GDU	Planting Population	Emergence	Seedling Vigor	Plant Height	Ear Height	Ear Flex	Drought Tolerance	Greensnap	Stalk Strength
	D45TC55RIB	105	Trecepta-RIB	Yes	D45TC55	2580	34-38	8	8	M/T	ML	Semi-Det	8	5	8
	D46CC62	107	Conventional	No	D46SS62	2560	32-38	7	8	M/T	MH	Semi-Det	7	6	6
	D47CC29	107	Conventional	No	D47VC29	2570	34-38	6	7	M/T	M	Semi-Det	6	7	7
	D47SS29RIB	107	SS-RIB	Yes	D47VC29	2570	34-38	6	7	M/T	M	Semi-Det	6	7	7
	D47SS93RIB	107	SS-RIB	Yes	D47SS93	2580	34-38	7	8	M/T	MH	Semi-Det	4	6	6
	D48QZ22EZ	108	3220A E-Z Vip	Yes	D48QV22	2650	32-38	7	8	M	ML	Semi-Flex	9	6	7
	D48SS50RIB	108	SS-RIB	Yes	D48SS50	2630	32-38	8	8	M	ML	Semi-Flex	8	7	8
	D48VC84RIB	108	VT2P-RIB	Yes	D48VC84	2620	32-38	8	8	M	M	Semi-Flex	7	7	8

105 RM D45TC55RIB Brand

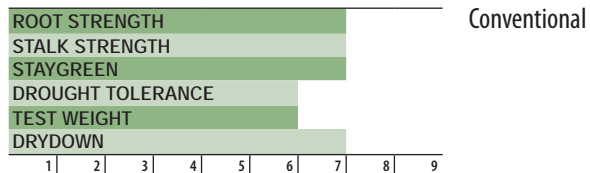
Available RIB: Yes



- Top-end yield potential in zone and moves south of zone
- Medium-tall with very good stalks and roots
- Handles high plant populations
- Excellent early vigor for early planting
- Semi-determinate ear type on red cob, good dual purpose hybrid

107 RM D47CC29 Brand

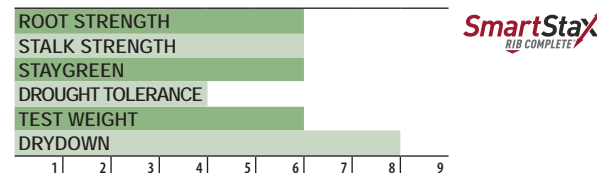
Available RIB: No



- Excellent plant health with good northern leaf blight and Goss's wilt tolerance
 - Good stalks and roots, adapted to higher populations
 - Low greensnap risk
 - Quick grain drydown after maturity
- Other hybrids within family: D47SS29RR*

107 RM D47SS93RIB Brand

Available RIB: Yes

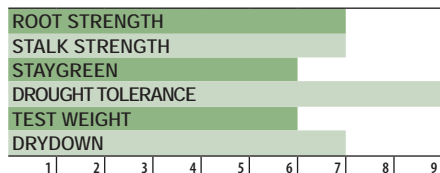


- Broad east to west adaptation in 105 and 110 CRM zones
- Good response to fungicide when targeting maximum yield and gray leaf spot is an issue
- Fast drydown
- Very good early vigor

Root Strength	HARVEST							DISEASE TOLERANCE										PRODUCT	
	Test Weight	Grain Drydown	Staygreen	Husk Coverage	Dual Purpose	Silage Select™		Gray Leaf Spot	Goss's Wilt	N. Leaf Blight	S. Leaf Blight	Eye Spot	Tar Spot	Common Rust	Southern Rust	Anthracnose	Leaf Anthracnose	Dyna-Gro Brand	
9	6	9	6	Medium	HR	Yes		7	8	7	N/A	N/A	5	N/A	4	7	7	D45TC55RIB	
7	8	6	8	Adequate	R	No		7	8	8	9	9	N/A	8	5	7	6	D46CC62	
7	6	7	7	Adequate	HR	No		7	7	7	7	7	3	7	N/A	6	6	D47CC29	
7	6	7	7	Adequate	HR	No		7	7	7	7	7	3	7	N/A	6	6	D47SS29RIB	
6	6	8	6	Med-Long	N/A	No		5	8	6	N/A	N/A	3	7	N/A	7	7	D47SS93RIB	
7	6	7	6	Adequate	R	No		7	8	6	6	N/A	N/A	6	5	6	N/A	D48QZ22EZ	
7	7	9	6	Adequate	HR	No		6	7	7	8	N/A	N/A	N/A	8	7	7	D48SS50RIB	
6	8	8	7	Med-Long	R	No		6	7	8	N/A	N/A	5	N/A	N/A	7	7	D48VC84RIB	

108 RM D48QZ22EZ Available EZ: Yes Brand

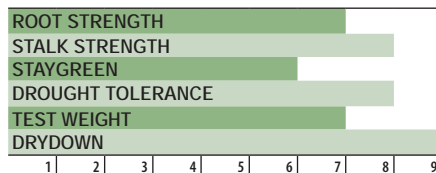
CORN



- Best suited for drought stressed to moderate yield environments
- Widely adapted, best west and central
- Good plant health in general and good tolerance for Goss's wilt
- Adapted to a wide population range with semi-flex ear type
- Medium plant stature, very good early vigor

108 RM D48SS50RIB Available RIB: Yes Brand

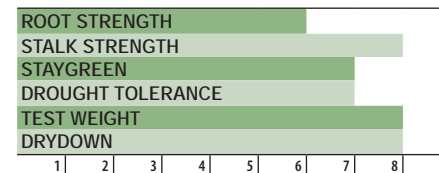
CORN



- Widely adapted with high yield potential
- Medium plant stature with 16-18 kernel rows on a semi-flex ear
- Good Goss's wilt and drought tolerance with low greensnap risk
- Good northern leaf blight and anthracnose stalk rot tolerance with average gray leaf spot
- Quick drydown for early harvest

108 RM D48VC84RIB Available RIB: Yes Brand

CORN



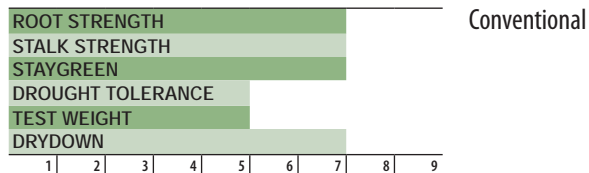
- Widely adapted east to west
- Top performer with consistent high yield in Dyna-Gro internal research
- Very good stalks and excellent grain drydown
- Good ear flex, does not need high plant populations
- Good Goss's wilt tolerance, very good northern leaf blight, and average gray leaf spot tolerance

	PRODUCT						PLANTING		GROWTH						
	Dyna-Gro Brand	RM	Technology	Available Refuge Blend	Hybrid Family	GDU	Planting Population	Emergence	Seedling Vigor	Plant Height	Ear Height	Ear Flex	Drought Tolerance	Greensnap	Stalk Strength
NEW	D49CC05	109	Conventional	No	D49PN05	2605	30-36	7	7	M	M	Flex	5	7	7
	D49CC70	109	Conventional	No	D49VC70	2563	32-38	7	8	M	M	Semi-Det	7	8	7
NEW	D49PN05RA	109	PowerCore Enlist	Yes	D49PN05	2605	30-36	7	7	M	M	Flex	5	7	7
	D49RR70	109	RR2	No	D49VC70	2563	32-38	7	8	M	M	Semi-Det	7	8	7
	D49SP83RIB	109	SSP-RIB	Yes	D49SP83	2650	32-36	7	8	M/T	MH	Semi-Flex	6	7	8
	D49SS70RIB	109	SS-RIB	Yes	D49VC70	2640	32-38	7	8	M	M	Semi-Det	7	8	6
	D49VC53RIB	109	VT2P-RIB	Yes	D49VC53	2700	32-38	7	7	M/T	M	Semi-Flex	7	8	7
	D49VC70RIB	109	VT2P-RIB	Yes	D49VC70	2563	32-38	7	8	M	M	Semi-Det	7	8	7
NEW	D50SP65RIB	110	SSP-RIB	Yes	D50SP65	2626	32-36	7	7	T	MH	Semi-Flex	7	8	7

109 RM D49CC05 Brand

Available RIB: No

NEW CORN



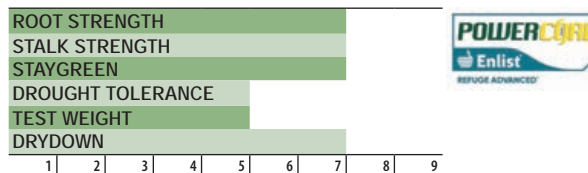
- New conventional dual purpose offering with fast drydown
- Broad east to west footprint. Best fit in 110 and 115 RM zone
- Responds to management, great Goss's wilt and gray leaf spot ratings
- Responds to fungicide where northern leaf blight is a concern

Other hybrids within family: D49PN05RA

109 RM D49PN05RA Brand

Available RA: Yes

NEW CORN



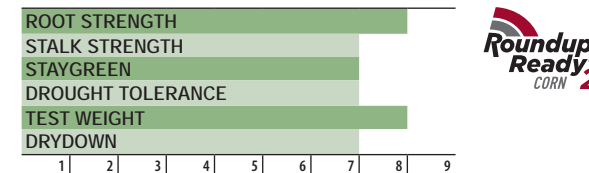
- PowerCore® Enlist® dual purpose offering with fast drydown
- Broad east to west footprint. Best fit in 110 and 115 RM zone
- Responds to management, great Goss's and gray leaf spot ratings
- Responds to fungicide where northern leaf blight is a concern

Other hybrids within family: D49CC05

109 RM D49RR70 Brand

Available RIB: No

NEW CORN

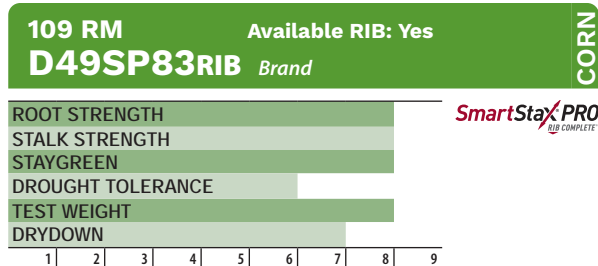


- Very good balance of yield potential and stability
- Good northern leaf blight, gray leaf spot, and anthracnose, with average Goss's wilt
- Medium plant stature and semi-determinate ear type
- Excellent early vigor and high test weight grain
- Good stalks and roots, fall intactness and low greensnap risk

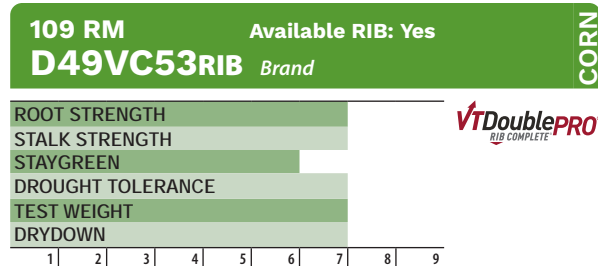
Other hybrids within family: D49CC70; D49SS70RIB; D49VC70RIB



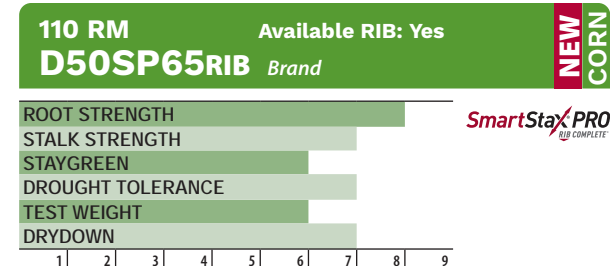
Root Strength	HARVEST							DISEASE TOLERANCE										PRODUCT
	Test Weight	Grain Drydown	Staygreen	Husk Coverage	Dual Purpose	Silage Select™	Gray Leaf Spot	Goss's Wilt	N. Leaf Blight	S. Leaf Blight	Eye Spot	Tar Spot	Common Rust	Southern Rust	Anthracnose	Leaf Anthracnose	Dyna-Gro Brand	
7	5	7	7	Med-long	HR	No	7	7	4	7	N/A	5	N/A	5	N/A	N/A	D49CC05	
8	8	7	7	Medium	HR	No	7	6	8	8	N/A	6	N/A	5	8	8	D49CC70	
7	5	7	7	Med-long	HR	No	7	7	4	7	N/A	5	N/A	5	N/A	N/A	D49PN05RA	
8	8	7	7	Medium	HR	No	7	6	8	8	N/A	6	N/A	5	8	8	D49RR70	
8	8	7	8	Adequate	NR	No	6	5	5	7	7	5	7	5	8	7	D49SP83RIB	
7	8	7	7	Medium	HR	No	7	6	8	8	N/A	6	N/A	5	8	8	D49SS70RIB	
7	7	7	6	Adequate	NR	No	7	7	6	5	N/A	4	7	5	6	6	D49VC53RIB	
8	8	7	7	Medium	HR	No	7	6	8	8	N/A	6	N/A	5	8	8	D49VC70RIB	
8	6	7	6	Adequate	HR	No	7	7	7	8	8	4	8	6	8	7	D50SP65RIB	



- Good disease package and very good agronomics
- Semi-flex ear for wide range of planting populations
- Very good late season plant intactness and staygreen



- Broad area of adaptation
- Place on better soils and use management practices for high yield targets in eastern Corn Belt
- Has good tip fill and kernel depth
- Moves south of zone
- Can handle moderate productivity environments of western Corn Belt

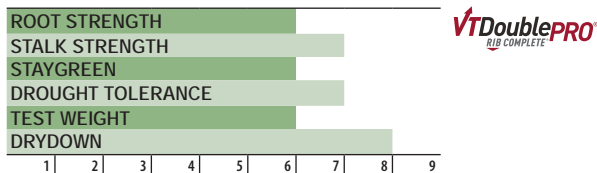


- Strong performance east to west
- Very good agronomic package with good stalks and root strength
- Good early season stand establishment and vigor
- Dual purpose silage/grain

	PRODUCT						PLANTING		GROWTH						
	Dyna-Gro Brand	RM	Technology	Available Refuge Blend	Hybrid Family	GDU	Planting Population	Emergence	Seedling Vigor	Plant Height	Ear Height	Ear Flex	Drought Tolerance	Greensnap	Stalk Strength
	D50VC09RIB	110	VT2P-RIB	Yes	D50VC09	2660	32-36	7	8	M/T	MH	Semi-Flex	7	7	7
	D50VC30RIB	110	VT2P-RIB	Yes	D50VC30	2610	34-38	7	7	T	MH	Semi-Det	7	7	8
	D50VC78RIB	110	VT2P-RIB	Yes	D50VC78	2620	32-38	8	9	M	MH	Semi-Det	7	8	8
	D51SS41RIB	111	SS-RIB	Yes	D51VC41	2640	30-36	7	7	M	M	Semi-Det	6	7	7
	D51SS61RIB	111	SS-RIB	Yes	D51SS61	2670	34-38	7	7	M	M	Semi-Det	7	8	8
	D51VC67RIB	111	VT2P-RIB	Yes	D51VC67	2660	32-38	7	7	M	M	Semi-Flex	7	8	7
NEW	D51VC95RIB	111	VT2P-RIB	Yes	D51VC95	2643	32-36	8	7	M	M	Semi-Flex	7	8	8

110 RM D50VC09RIB Brand

Available RIB: Yes



- Widely adapted east to west and north to south with exceptional top end yield potential
- Medium-tall plant with semi-flex ear type
- Good Goss's wilt and gray leaf spot
- Very good northern leaf blight and anthracnose stalk rot tolerance

111 RM D51SS61RIB Brand

Available RIB: Yes



- Top yield with very good stalks and excellent roots
- Widely adapted east to west and north to south—excels in the Corn Belt
- Excellent plant health
- Very good northern leaf blight, southern leaf blight, and good gray leaf spot

111 RM D51VC95RIB Brand

Available RIB: Yes



- Very good agronomic package
- Very good Goss's wilt and greensnap rating allow western performance
- Attractive phenotype and harvest appearance
- Moves north of zone as a full season option

	HARVEST							DISEASE TOLERANCE										PRODUCT
Root Strength	Test Weight	Grain Drydown	Staygreen	Husk Coverage	Dual Purpose	Silage Select™	Gray Leaf Spot	Goss's Wilt	N. Leaf Blight	S. Leaf Blight	Eye Spot	Tar Spot	Common Rust	Southern Rust	Anthraxnose	Leaf Anthracnose	Dyna-Gro Brand	
6	6	8	6	Adequate	HR	No	7	7	8	7	N/A	3	N/A	6	8	7	D50VC09RIB	
8	6	7	8	Adequate	HR	No	7	8	8	8	8	N/A	7	5	7	7	D50VC30RIB	
8	6	9	6	Med-Long	HR	Yes	7	7	8	8	N/A	5	N/A	5	6	6	D50VC78RIB	
8	7	7	6	Adequate	R	No	6	9	8	8	N/A	5	N/A	N/A	7	7	D51SS41RIB	
9	7	7	7	Adequate	NR	No	7	8	8	8	N/A	5	N/A	5	6	6	D51SS61RIB	
7	6	8	6	Adequate	R	No	6	6	6	8	N/A	5	N/A	N/A	7	7	D51VC67RIB	
8	6	7	7	Adequate	N/A	N/A	5	8	6	8	8	4	8	5	7	7	D51VC95RIB	

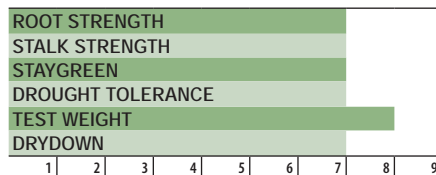


	PRODUCT						PLANTING		GROWTH						
	Dyna-Gro Brand	RM	Technology	Available Refuge Blend	Hybrid Family	GDU	Planting Population	Emergence	Seedling Vigor	Plant Height	Ear Height	Ear Flex	Drought Tolerance	Greensnap	Stalk Strength
	D52CC63	112	Conventional	No	D52VC63	2710	34-38	7	7	M/T	M	Semi-Det	7	6	7
	D52CC91	112	Conventional	No	D52VC91	2700	32-36	8	8	M/S	M	Semi-Flex	8	5	8
	D52DC82RIB	112	DG/VT2P-RIB	Yes	D52SS82	2670	32-36	7	7	T	H	Semi-Flex	7	8	8
	D52RR63	112	RR2	No	D52VC63	2710	34-38	7	7	M/T	M	Semi-Det	7	6	7
	D52SS63RIB	112	SS-RIB	Yes	D52VC63	2720	34-38	7	7	M/T	M	Semi-Det	7	6	7
	D52SS82RIB	112	SS-RIB	Yes	D52SS82	2670	32-36	7	7	M/S	M	Semi-Flex	6	8	7
	D52SS91RIB	112	SS-RIB	Yes	D52VC91	2740	32-36	8	8	M/S	M	Semi-Flex	8	5	8
	D52VC15RIB	112	VT2P-RIB	Yes	D52VC15	2660	32-38	7	9	M	M	Semi-Flex	7	6	8
	D52VC63RIB	112	VT2P	Yes	D52VC63	2710	34-38	7	7	M/T	M	Semi-Det	7	6	7
	D52VC91RIB	112	VT2P-RIB	Yes	D52VC91	2700	32-36	8	8	M/S	M	Semi-Flex	8	5	8

112 RM D52SS63RIB Brand

Available RIB: Yes

CORN

SmartStax
RIB COMPLETE

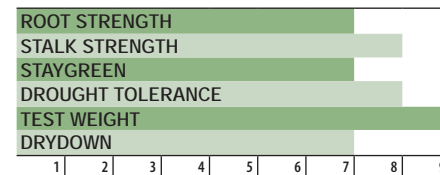
- Responds well to good soils and high management, fungicide recommended
- High test weight and deep grain on a semi-determinate ear
- Good stalk and roots, an excellent silage option
- Good tolerance for Goss's wilt, northern leaf blight, southern leaf blight, and anthracnose
- Moves south of zone

*Other hybrids within family: D52CC63;
D52VC63*

112 RM D52SS91RIB Brand

Available RIB: Yes

CORN

SmartStax
RIB COMPLETE

- Consistent top yields and good stress tolerance
- Dependable top yields under stress and in high yield environments
- Well adapted to heavy soils
- Medium-short plant height with excellent grain quality
- Strong stalks and large root mass

Other hybrids within family: D52CC91; D52VC91RIB

Root Strength	HARVEST							DISEASE TOLERANCE										PRODUCT
	Test Weight	Grain Drydown	Staygreen	Husk Coverage	Dual Purpose	Silage Select™	Gray Leaf Spot	Goss's Wilt	N. Leaf Blight	S. Leaf Blight	Eye Spot	Tar Spot	Common Rust	Southern Rust	Anthracnose	Leaf Anthracnose	Dyna-Gro Brand	
7	8	7	7	Adequate	HR	Yes	5	7	8	8	N/A	N/A	N/A	5	7	7	D52CC63	
7	9	7	7	Adequate	NR	No	6	6	8	8	7	N/A	7	6	6	6	D52CC91	
8	6	9	7	Long	HR	Yes	6	7	8	8	N/A	N/A	N/A	5	7	7	D52DC82RIB	
7	8	7	7	Adequate	HR	Yes	5	7	8	8	N/A	6	N/A	5	7	7	D52RR63	
7	8	7	7	Adequate	HR	Yes	5	7	8	8	N/A	6	N/A	5	7	7	D52SS63RIB	
7	6	9	7	Long	HR	Yes	6	7	8	8	N/A	N/A	N/A	6	8	7	D52SS82RIB	
7	9	7	7	Adequate	NR	No	6	6	8	8	7	N/A	7	6	6	6	D52SS91RIB	
8	8	8	8	Long	NR	No	7	7	5	8	N/A	N/A	N/A	4	6	6	D52VC15RIB	
7	8	7	7	Adequate	HR	Yes	5	7	8	8	N/A	6	N/A	5	7	7	D52VC63RIB	
7	9	7	7	Adequate	NR	No	6	6	8	8	7	N/A	7	6	6	6	D52VC91RIB	

CORN

112 RELATIVE MATURITY



RATING SCALE: 9 = Excellent 7-8 = Very Good 5-6 = Good 3-4 = Fair 1-2 = Poor N/A = Information Not Available Red = New

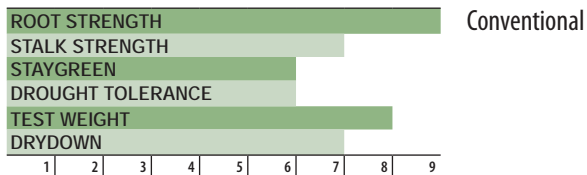
DYNAGROSEED.COM

29

	PRODUCT						PLANTING		GROWTH						
	Dyna-Gro Brand	RM	Technology	Available Refuge Blend	Hybrid Family	GDU	Planting Population	Emergence	Seedling Vigor	Plant Height	Ear Height	Ear Flex	Drought Tolerance	Greensnap	Stalk Strength
	D53CC13WX	113	Conv/ WX	No	D53SS13	2730	32-38	8	8	M/T	M	Semi-Det	6	7	7
	D53CC33	113	Conventional	No	D53VC33	2720	32-36	7	7	M/T	M	Semi-Flex	8	7	7
NEW	D53SP85RIB	113	SSP-RIB	Yes	D53SP85	2681	32-36	7	7	M/T	M	Semi-Det	7	7	8
	D53SS13RIB	113	SS-RIB	Yes	D53SS13	2730	32-38	8	8	M/T	M	Semi-Det	6	7	7
	D53TC19RIB	113	Trecepta	Yes	D53TC19	2710	32-36	7	8	M/T	M	Semi-Det	6	6	8
	D53TC23RIB	113	Trecepta	Yes	D53TC23	2750	32-38	6	7	M/T	MH	Semi-Det	7	6	6
	D53VC33RIB	113	VT2P-RIB	Yes	D53VC33	2720	32-36	7	7	M/T	M	Semi-Flex	8	7	7
	D53VC54RIB	113	VT2P-RIB	Yes	D53VC54	2655	34-36	7	7	M/T	MH	Semi-flex	7	7	7
	D54RR14	114	RR2	No	D54VC14	2710	32-38	7	9	M	M	Semi-Flex	8	8	7

113 RM D53CC13WX Brand

Available WX: Yes

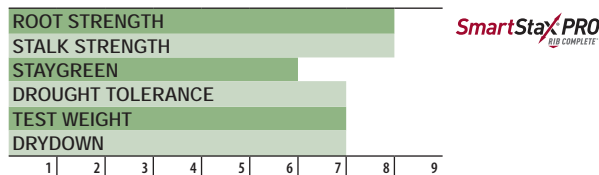


- Waxy non-GMO hybrid with top yield
- Medium-tall plant type, good stalks and excellent roots
- Good tolerance for Gray leaf spot, stalk anthracnose, northern leaf blight, and southern leaf blight
- Semi-determinate ear type with 16-18 kernel rows of high test weight grain

Other hybrids within family: D53SS13RIB

113 RM D53SP85RIB Brand

Available RIB: Yes



- Strong agronomic package
- SmartStax® PRO with very high yield potential
- Disease package allow east to west placement
- Dual purpose silage/grain potential
- Attractive phenotype

113 RM D53SS13RIB Brand

Available RIB: Yes



- Highest yield potential for maturity in zone
- Medium-tall plant type, good stalks and excellent roots
- Widely adapted in zone, best fit on productive soils
- Good tolerance for Goss's wilt, gray leaf spot, northern leaf blight, and southern leaf blight
- Semi-determinate, girthy ear with high test weight grain

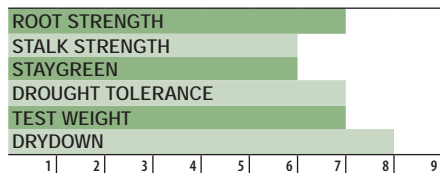
Other hybrids within family: D53CC13WX

Root Strength	HARVEST							DISEASE TOLERANCE										PRODUCT	
	Test Weight	Grain Drydown	Staygreen	Husk Coverage	Dual Purpose	Silage Select™	Gray Leaf Spot	Goss's Wilt	N. Leaf Blight	S. Leaf Blight	Eye Spot	Tar Spot	Common Rust	Southern Rust	Anthracnose	Leaf Anthracnose	Dyna-Gro Brand		
9	8	7	6	Short	NR	No	7	7	8	8	N/A	N/A	N/A	5	7	7	D53CC13WX		
7	7	7	7	Med-Long	HR	No	7	6	7	7	N/A	5	6	5	6	6	D53CC33		
8	7	7	6	Adequate	R	N/A	6	8	7	8	8	4	8	4	7	7	D53SP85RIB		
9	8	7	6	Short	HR	No	7	7	8	8	N/A	N/A	N/A	5	7	7	D53SS13RIB		
8	7	8	7	Adequate	NR	No	7	7	8	8	N/A	N/A	N/A	5	N/A	N/A	D53TC19RIB		
7	7	8	5	Adequate	R	No	6	6	7	8	N/A	N/A	N/A	8	6	6	D53TC23RIB		
7	7	7	7	Med-Long	HR	No	7	6	7	7	N/A	5	6	5	6	6	D53VC33RIB		
7	7	5	7	Adequate	R	No	7	7	7	7	N/A	5	7	4	6	6	D53VC54RIB		
8	9	7	7	Adequate	R	No	7	7	8	8	N/A	N/A	N/A	7	6	N/A	D54RR14		

113 RM D53TC23RIB Brand

Available RIB: Yes

CORN

Trecepta[®]
RIB COMPLETE

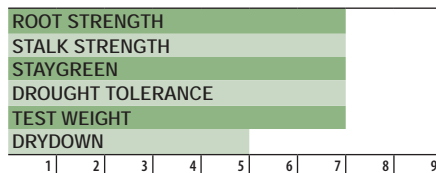
- Broadly adapted hybrid with silage potential
- Combines top-end yield potential with good stress tolerance
- Solid disease package for both northern and southern environments
- Minor risk for greensnap

Other hybrids within family: D53TC23RIB

113 RM D53VC54RIB Brand

Available RIB: Yes

CORN

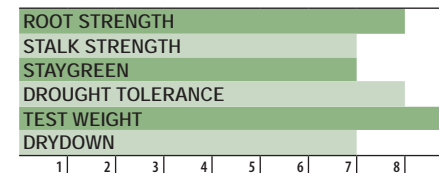
VTDouBlePRO[®]
RIB COMPLETE

- Great disease package and stalks and roots
- Good late season health, standability, and intactness
- Yield stability across wide geography

114 RM D54RR14 Brand

Available RIB: No

CORN

Roundup Ready²
CORN

- Roundup Ready[®] hybrid with high consistent yield, widely adapted in zone and very good south
- Excellent stalks and roots with low greensnap risk
- High test weight grain on a semi-flex ear
- Good northern leaf blight, southern rust, Goss's wilt, and gray leaf spot tolerance
- Strong emergence and early season vigor

Other hybrids within family: D54VC14

	PRODUCT						PLANTING		GROWTH							
	Dyna-Gro Brand	RM	Technology	Available Refuge Blend	Hybrid Family	GDU	Planting Population	Emergence	Seedling Vigor	Plant Height	Ear Height	Ear Flex	Drought Tolerance	Greensnap	Stalk Strength	
	D54SS34RIB	114	SS-RIB	Yes	D54VC34	2750	32-38	7	8	M	M	Semi-Flex	7	7	7	
	D54SS74RIB	114	SS	Yes	D54SS74	2740	32-36	8	8	M	M	Semi-Flex	7	8	7	
	D54VC14	114	VT2P	Yes	D54VC14	2710	32-38	7	9	M	M	Semi-Flex	8	8	7	
	D54VC34	114	VT2P	Yes	D54VC34	2740	32-38	7	8	M/T	M	Semi-Flex	7	7	7	
	D55CC80	115	Conventional	No	D55VC80	2780	32-36	7	8	M/T	MH	Semi-Flex	6	6	7	
	D55QC73	115	Vip 3110	No	D55QC73	2800	30-36	7	7	T	M	Flex	4	7	7	
	D55VC45	115	VT2P	Yes	D55VC45	2770	32-36	8	8	M/T	MH	Semi-Flex	7	7	8	
	D55VC80	115	VT2P	Yes	D55VC80	2780	32-36	7	8	M/T	MH	Semi-Flex	6	6	7	
	D56TC44	116	Trecepta	Yes	D56TC44	2595	32-36	8	8	M/T	M	Semi-Flex	8	8	7	
NEW	D56RR44	116	RR2	No	D56TC44	2595	32-36	8	8	M/T	M	Semi-Flex	8	8	7	

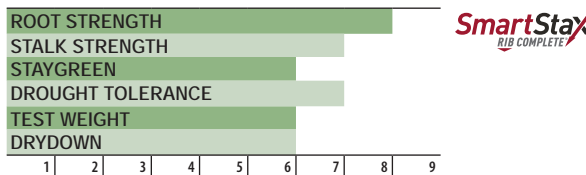
114 RM D54SS34RIB Brand Available RIB: Yes



- Medium plant type with semi-flex ear and very good test weight
- Good plant health: good gray leaf spot, Goss's wilt, northern leaf blight, southern leaf blight
- Medium-tall plant type with semi-flex ear and very good test weight
- Full canopy with good shading
- Well adapted to Corn Belt areas needing SmartStax® trait

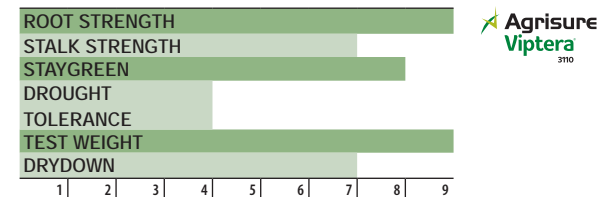
Other hybrids within family: D54VC34

114 RM D54SS74RIB Brand Available RIB: Yes



- Balanced product with high yield potential on productive soils and good stress tolerance
- Broadly adapted, best west and central
- Very good early vigor and late season standability
- Average gray leaf spot, good Goss's wilt tolerance, and low greensnap risk

115 RM D55QC73 Brand Available RIB: No



- Excellent grain quality and high IVSD7 ratings - food grade qualities
- Tall plant with medium ear placement, good plant health and very good TTNDfD
- Very good roots and stalks
- Exhibits excellent staygreen during drydown
- Widely adapted south on irrigated acres

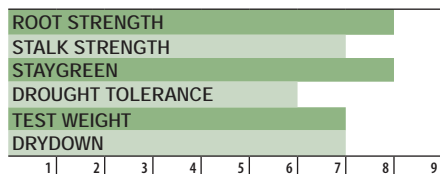
Other hybrids within family: D55GT73

Root Strength	HARVEST							DISEASE TOLERANCE										PRODUCT	
	Test Weight	Grain Drydown	Staygreen	Husk Coverage	Dual Purpose	Silage Select™	Gray Leaf Spot	Goss's Wilt	N. Leaf Blight	S. Leaf Blight	Eye Spot	Tar Spot	Common Rust	Southern Rust	Anthracnose	Leaf Anthracnose	Dyna-Gro Brand		
8	8	7	8	Long	HR	No	7	7	7	8	N/A	N/A	N/A	5	7	6	D54SS34RIB		
8	6	6	6	Adequate	NR	No	6	7	8	8	N/A	N/A	N/A	5	7	7	D54SS74RIB		
8	9	7	7	Adequate	R	No	7	7	8	8	N/A	N/A	N/A	7	6	N/A	D54VC14		
8	8	7	8	Long	HR	No	7	7	7	8	N/A	N/A	N/A	5	5	5	D54VC34		
8	7	7	8	Adequate	HR	Yes	7	7	8	8	N/A	N/A	N/A	N/A	7	7	D55CC80		
9	9	7	8	Medium	HR	No	8	7	6	7	6	N/A	6	6	7	7	D55QC73		
8	8	7	8	Adequate	HR	No	7	7	7	8	N/A	N/A	6	6	5	5	D55VC45		
8	7	7	8	Adequate	HR	Yes	7	7	8	8	N/A	N/A	N/A	N/A	7	7	D55VC80		
6	8	7	6	Adequate	NR	No	5	5	6	7	7	5	7	6	5	5	D56TC44		
6	8	7	6	Adequate	NR	No	5	5	6	7	7	5	7	6	5	5	D56RR44		

115 RM D55VC80 Brand

Available RIB: Yes

CORN



VTDoublingPRO

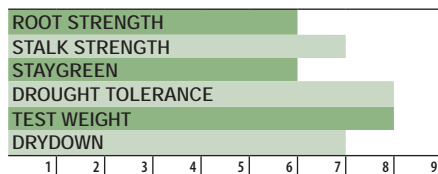
- Highest overall yield in the line-up
- Very good southern leaf blight, northern leaf blight and southern rust, good gray leaf spot and Goss's wilt
- Medium-tall plant with semi-flex ear type
- Widely adapted, best central and east

Other hybrids within family: D55CC80

116 RM D56TC44 Brand

Available RIB: Yes

CORN



Trecepta

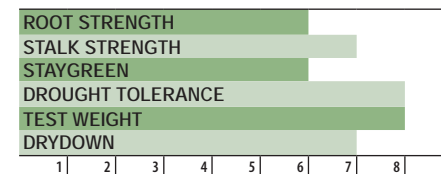
- Highest overall yield in the line-up
- Handles heat and drought stress very well
- Very good test weight and grain appearance
- Plant in warmer soils middle to latter part of planting window

Other hybrids within family: D56RR44

116 RM D56RR44 Brand

Available RIB: No

NEW CORN

Roundup Ready² CORN

- Attractive early season growth and vigor
- Handles heat and drought stress very well
- Very good test weight and grain appearance
- Plant in warmer soils middle to latter part of planting window

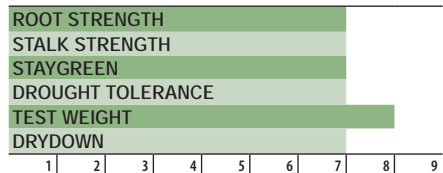
Other hybrids within family: D56TC44

	PRODUCT						PLANTING		GROWTH							
	Dyna-Gro Brand	RM	Technology	Available Refuge Blend	Hybrid Family	GDU	Planting Population	Emergence	Seedling Vigor	Plant Height	Ear Height	Ear Flex	Drought Tolerance	Greensnap	Stalk Strength	
	D57CC51	117	Conventional	No	D57VC51	2810	32-36	6	6	M	M	Flex	6	6	8	
	D57RR51	117	RR2	No	D57VC51	2810	32-36	6	6	M	M	Flex	6	6	8	
	D57TC29RIB	117	Trecepta	Yes	D57TC29	2800	30-36	7	8	T	MH	Semi-Flex	7	8	7	
	D57VC17	117	VT2P	Yes	D57VC17	2840	32-36	7	9	T	MH	Semi-Det	7	8	8	
	D57VC51	117	VT2P	Yes	D57VC51	2810	32-36	6	6	M	M	Flex	6	6	8	
	D57VC53	117	VT2P	Yes	D57VC53	2850	32-36	7	7	T	MH	Semi-Flex	6	5	7	
	D57VC75	117	VT2P	Yes	D57VC75	2800	32-38	7	7	T	MH	Semi-Det	7	7	8	
	D58SS65	118	SS	Yes	D58VC65	2850	32-36	8	8	M	M	Semi-Flex	7	7	8	
	D58TC94	118	Trecepta	Yes	D58TC94	2810	32-36	7	8	M	ML	Semi-Flex	7	6	7	

117 RM D57TC29 Brand

Available RIB: Yes

CORN



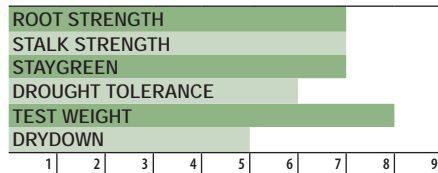
Trecepta®

- Tall hybrid with robust canopy and adapted to full season areas
- Good Goss's wilt, northern leaf blight, southern leaf blight, and anthracnose, average gray leaf spot
- Semi-flex ear and pink cob with high test weight grain
- Good drought tolerance and staygreen with excellent intactness

117 RM D57VC53 Brand

Available RIB: Yes

CORN



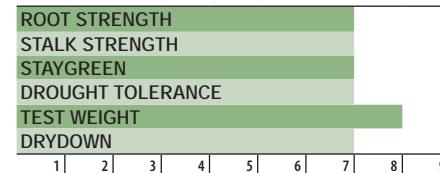
VtDoublePRO®

- High test weight grain on a semi-flex ear with good kernel depth
- Tall plant with very good canopy cover
- Broadly adapted in full season zone
- Handles a wide variety of soil types and yield environments

118 RM D58TC94 Brand

Available RIB: Yes

CORN



Trecepta®

- Widely adapted across 120 CRM zone
- Excellent test weight
- Solid agronomics and disease package including southern rust tolerance

Other hybrids within family: D58RR94

Root Strength	HARVEST							DISEASE TOLERANCE										PRODUCT
	Test Weight	Grain Drydown	Staygreen	Husk Coverage	Dual Purpose	Silage Select™	Gray Leaf Spot	Goss's Wilt	N. Leaf Blight	S. Leaf Blight	Eye Spot	Tar Spot	Common Rust	Southern Rust	Anthrachnose	Leaf Anthracnose	Dyna-Gro Brand	
9	7	6	7	Adequate	R	No	6	4	7	8	7	N/A	6	7	6	6	D57CC51	
9	7	6	7	Adequate	R	No	6	4	7	8	7	N/A	6	7	6	6	D57RR51	
7	8	7	7	Long	HR	No	6	7	7	8	N/A	N/A	N/A	5	8	7	D57TC29RIB	
9	9	6	9	Adequate	HR	Yes	7	7	8	6	N/A	N/A	6	5	6	6	D57VC17	
9	7	6	7	Adequate	R	No	6	4	7	8	7	N/A	6	7	6	6	D57VC51	
7	8	5	7	Long	R	No	7	5	7	6	N/A	3	7	6	N/A	N/A	D57VC53	
6	6	6	8	Long	HR	Yes	6	7	8	9	7	N/A	6	4	6	6	D57VC75	
7	9	7	7	Adequate	HR	No	7	7	8	8	N/A	N/A	6	7	6	6	D58SS65	
7	8	7	7	Adequate	NR	No	6	5	7	8	7	5	7	7	7	N/A	D58TC94	

CORN

117-118 RELATIVE MATURITY



RATING SCALE: 9 = Excellent 7-8 = Very Good 5-6 = Good 3-4 = Fair 1-2 = Poor N/A = Information Not Available Red = New

DYNAGROSEED.COM

35

	PRODUCT						PLANTING		GROWTH						
	Dyna-Gro Brand	RM	Technology	Available Refuge Blend	Hybrid Family	GDU	Planting Population	Emergence	Seedling Vigor	Plant Height	Ear Height	Ear Flex	Drought Tolerance	Greensnap	Stalk Strength
	D58VC22	118	VT2P	No	D58VC22	2860	30-32	7	7	M/T	M	Semi-Flex	7	7	7
	D58VC65	118	VT2P	Yes	D58VC65	2830	32-36	8	8	M	M	Semi-Flex	7	7	8
	D58VC74	118	VT2P	Yes	D58VC74	2850	32-36	7	7	M	ML	Semi-Flex	7	6	7
NEW	D58RR74	118	RR2	No	D58VC74	2850	32-36	7	7	M	ML	Semi-Flex	7	6	7
NEW	D58RR94	118	RR2	No	D58TC94	2810	32-36	7	8	M	ML	Semi-Flex	7	6	7
NEW	D60TC45	120	Trecepta	Yes	D60TC45	2865	32-36	7	7	T	H	Semi-Flex	8	8	8



118 RM D58VC74 Brand

Available RIB: Yes


VTDoublePRO

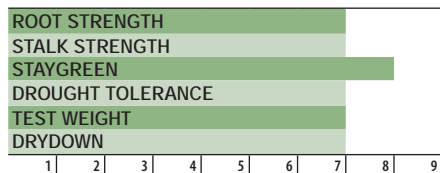
- All around performer with mix of top end potential and stress tolerance
- Agronomically solid with very good stalks, roots, and test weight
- Best suited in moderate to higher productivity environments

Root Strength	HARVEST							DISEASE TOLERANCE										PRODUCT
	Test Weight	Grain Drydown	Staygreen	Husk Coverage	Dual Purpose	Silage Select™	Gray Leaf Spot	Goss's Wilt	N. Leaf Blight	S. Leaf Blight	Eye Spot	Tar Spot	Common Rust	Southern Rust	Anthracnose	Leaf Anthracnose	Dyna-Gro Brand	
6	8	6	6	Adequate	HR	No	6	7	8	8	N/A	N/A	N/A	7	6	6	D58VC22	
7	9	7	7	Adequate	HR	No	7	7	8	8	N/A	N/A	6	7	6	6	D58VC65	
7	7	7	8	Adequate	NR	No	6	6	7	8	7	5	7	7	7	N/A	D58VC74	
7	7	7	8	Adequate	NR	No	6	6	7	8	7	5	7	7	7	N/A	D58RR44	
7	8	7	7	Adequate	NR	No	6	5	7	8	7	5	7	7	7	N/A	D58RR94	
7	7	5	8	Adequate	HR	N/A	7	5	7	8	8	5	8	7	8	8	D60TC45	

118 RM D58RR74 Brand

Available RIB: No

NEW CORN

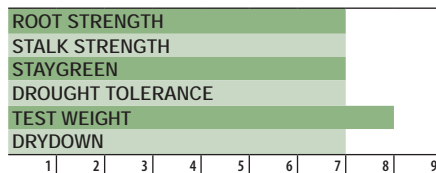
Roundup Ready² CORN

- All around performer with mix of top end potential and stress tolerance
- Agronomically solid with very good stalks, roots, and test weight
- Best suited in moderate to higher productivity environments

118 RM D58RR94 Brand

Available RIB: No

NEW CORN

Roundup Ready² CORN

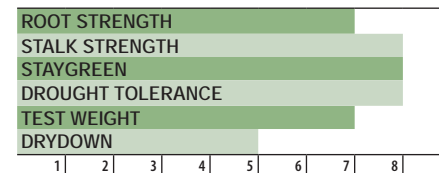
- Widely adapted across 120 CRM zone
- Excellent test weight
- Solid agronomics and disease package to include southern rust tolerance

Other hybrids within family: D58TC94

120 RM D60TC45 Brand

Available RIB: Yes

NEW CORN

Trecepta[®]

- Handles heat and drought stress
- Large plant stature with very good silage tonnage and quality
- Good tolerance to southern rust
- Large plant with good agronomics



SILAGE

At home on any acre.



LEGEND

RATING SCALE:

- 9 = Excellent
- 7-8 = Very Good
- 5-6 = Good
- 3-4 = Fair
- 1-2 = Poor

HR = Highly Recommended

R = Recommended

N = Not Recommended

N/A = Information Not Available

DEFINITIONS

inSitu 0 hr Starch Dig. = % of available starch prior to fermentation

WSC = water soluble carbohydrates (sugar) - feeds rumen microbes

NDFd30 = Neutral Detergent Fiber Digestibility % 30 hour test

TTNDFD = Total Tract NDF Digestibility (digestion from intake to feces)

Hybrids in **Blue Bold** are **SILAGE SELECT Hybrids**

Milk per Ton and Milk per Acre are based on Milk 2006 calculations.

Rating comparisons relate to silage only hybrids and best hybrids used for dual purpose.

*Refer to legend on page 2 for key to traits listed in this table

Planting

Corn Silage

	Dyna-Gro Brand	RM
Early Season	D21VC81RIB	81
	D26VC72RIB	86
	D28VC33RIB	88
	D31VC23RIB	91
	D32RR41, D32VC41RIB	92
	D32RR56, D32VC56RIB, D32CC56	92
	D33QZ83EZ	93
	D34VC54RIB	94
	D34SS93RIB, D34VC93RIB	94
	D37SS64RIB, D37VC64RIB	97
Mid Season	D38VC38RIB	98
	D39CC43, D39DC43RIB	99
	D40VC41RIB	100
	D41TC74RIB	101
	D43SS81RIB, D43VC81RIB	103
	D44PN25RA, D44CC25	104
	D45TC55RIB	105
	D46CC62	107
	D47CC29	107
	D49CC05, D49PN05RA	109
Full Season	D49VC53RIB	109
	D49CC70, D49SS70RIB, D49VC70RIB, D49RR70	109
	D50SP65RIB	110
	D50VC78RIB	110
	D52CC63, D52SS63, D52SS63RIB, D52VC63	112
	D52DC82RIB, D52SS82RIB, D52DC82	112
	D53CC33, D53VC33RIB	113
	D53TC23, D53TC23RIB	113
	D53VC54RIB	113
	D53SP85RIB	113
Full Season	D54SS34, D54SS34RIB, D54VC34, D54VC34RIB	114
	D55CC80, D55VC80, D55VC80RIB	115
	D55QC73	115
	D57SS17RIB, D57SS17, D57VC17, D57VC17RIB	117
	D57TC29, D57TC29RIB	117
	D57VC53, D57VC53RIB	117
	D57VC75, D57VC75RIB	117
	D58SS65, D58SS65RIB, D58VC65, D58VC65RIB	118
	D58QC72	118
	D58VC90RIB	118
Full Season	D60TC45, D60TC45RIB	120

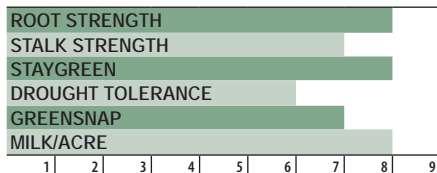
Trait*	Population	Silage Only	Silage Select™	Forage Yield	CP	Starch Content	InSitu 0 hr. Starch Dig.	WSC (Sugar)	NDFd30	TTNDFD	Beef per Ton	Beef per Acre	Milk Per Ton	Milk Per Acre	High Tonnage	Beef	Dairy	
VT2P	28-34		Yes	8	7	8	8	7	8	6	8	8	7	8	HR	HR	HR	D21VC81RIB
VT2P	30-38		Yes	8	7	9	9	9	8	6	8	8	9	9	HR	HR	HR	D26VC72RIB
VT2P	32-38		Yes	8	6	8	7	7	9	8	8	8	8	9	HR	HR	HR	D28VC33RIB
VT2P	32-38			8	7	8	7	7	8	7	7	8	7	7	R	R	R	D31VC23RIB
VT2P, RR	32-38			9	7	6	9	6	8	9	6	7	7	8	HR	R	HR	D32RR41, D32VC41RIB
VT2P, RR, CONV	32-38		Yes	9	6	7	6	8	7	8	8	8	7	8	HR	HR	HR	D32RR56, D32VC56RIB, D32CC56
Viptera	32-36			8	7	7	7	7	7	8	6	7	7	8	R	R	R	D33QZ83EZ
VT2P	34-40		Yes	8	8	9	5	6	7	6	8	8	8	8	HR	HR	HR	D34VC54RIB
SS, VT2P	34-38		Yes	9	6	8	6	7	8	8	9	9	8	9	HR	HR	HR	D34SS93RIB, D34VC93RIB
SS, VT2P	34-40			7	8	8	5	6	7	7	8	7	7	7	HR	R	R	D37SS64RIB, D37VC64RIB
VT2P	30-38			7	8	6	5	7	7	8	7	6	7	7	HR	R	HR	D38VC38RIB
CONV, DC	32-38		Yes	7	7	9	9	9	8	7	9	8	8	8	HR	HR	HR	D39CC43, D39DC43RIB
VT2P	32-38			9	6	7	9	9	7	7	7	8	7	8	HR	HR	HR	D40VC41RIB
Trecepta	34-36			9	7	6	8	7	6	7	7	7	7	8	HR	HR	HR	D41TC74RIB
SS, VT2P	32-38		Yes	9	6	9	9	7	7	7	8	8	7	8	HR	HR	HR	D43SS81RIB, D43VC81RIB
PowerCore, CONV	32-36		Yes	8	6	8	9	9	8	8	9	9	8	9	HR	HR	HR	D44PN25RA, D44CC25
Trecepta	34-38		Yes	8	8	9	9	6	9	7	8	8	9	9	HR	HR	HR	D45TC55RIB
CONV	32-38			7	7	8	6	8	7	7	8	7	7	7	HR	R	HR	D46CC62
SS, CONV	34-38			8	7	8	9	6	7	6	7	8	7	8	HR	R	HR	D47CC29
PowerCore, CONV	32-36			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	D49CC05, D49PN05RA
VT2P	30-36			9	7	6	5	7	6	7	6	7	6	7	HR	R	R	D49VC53RIB
SS, VT2P, RR, CONV	32-38			7	8	8	5	6	9	7	7	7	8	8	HR	R	HR	D49CC70, D49SS70RIB, D49VC70RIB, D49RR70
SmarstaxPro	32-38			7	7	6	8	6	7	7	6	6	7	7	HR	R	R	D50SP65RIB
VT2P	32-38		Yes	9	7	9	9	7	7	6	8	8	8	9	HR	HR	HR	D50VC78RIB
SS, VT2P, RR, CONV	34-38		Yes	7	7	7	4	6	7	7	7	7	7	7	HR	R	HR	D52CC63, D52SS63, D52SS63RIB, D52VC63
SS, DC	32-36		Yes	8	7	9	9	7	8	7	8	8	8	8	HR	HR	HR	D52DC82RIB, D52SS82RIB, D52DC82
VT2P, CONV	32-36			8	6	9	9	7	7	6	8	8	8	8	HR	HR	HR	D53CC33, D53VC33RIB
Trecepta	32-38			9	7	7	7	6	7	7	7	8	7	7	R	R	R	D53TC23, D53TC23RIB
VT2P	34-36		Yes	8	8	7	8	9	7	8	8	8	7	8	HR	HR	HR	D53VC54RIB
SmarstaxPro	32-37			7	6	6	6	6	7	6	6	6	6	7	R	R	R	D53SP85RIB
SS, VT2P	32-38		Yes	9	6	8	8	7	6	6	8	8	7	8	HR	HR	HR	D54SS34, D54SS34RIB, D54VC34, D54VC34RIB
VT2P, CONV	32-36		Yes	9	7	7	6	8	7	7	8	9	8	9	HR	HR	HR	D55CC80, D55VC80, D55VC80RIB
3110, GT	30-36			7	7	6	5	7	7	8	6	7	7	7	HR	R	R	D55QC73
SS, VT2P	32-36		Yes	8	7	9	7	7	7	6	8	8	7	8	HR	HR	HR	D57SS17RIB, D57SS17, D57VC17, D57VC17RIB
Trecepta	30-36			8	7	6	8	8	8	9	6	7	7	8	HR	R	R	D57TC29, D57TC29RIB
VT2P	32-36			9	6	7	6	6	7	6	7	8	7	8	HR	R	R	D57VC53, D57VC53RIB
VT2P	32-38		Yes	8	8	6	5	9	7	7	7	8	8	8	HR	R	HR	D57VC75, D57VC75RIB
SS, VT2P	32-36			7	6	9	5	7	7	6	7	7	7	7	HR	R	HR	D58SS65, D58SS65RIB, D58VC65, D58VC65RIB
3110	30-36	Yes	Yes	7	9	8	6	9	8	8	9	7	8	7	R	HR	HR	D58QC72
VT2P	30-36	Yes		8	8	7	6	7	7	6	7	7	7	8	HR	R	HR	D58VC90RIB
Trecepta	30-36			8	6	9	8	9	6	6	9	7	7	7	R	HR	R	D60TC45, D60TC45RIB

	PRODUCT						PLANTING		GROWTH					
	Dyna-Gro Brand	RM	Technology	Silage Select™	Available Refuge Blend	Silage/Dual Purpose	GDU	Planting Population	Emergence	Seedling Vigor	Plant Height	Ear Height	Ear Flex	Drought Tolerance
NEW	D14VC45RIB	74	VT2P-RIB	N/A	Yes	N/A	1894	N/A	7	7	M/T	MH	Semi-Det	6
	D20VC24RIB	80	VT2P-RIB	N/A	Yes	N/A	2098	32-36	7	5	M/T	MH	Semi-Flex	5
	D21VC81RIB	81	VT2P-RIB	Yes	Yes	HR	2030	28-34	8	8	M/T	M	Semi-Det	7
	D26VC64RIB	86	VT2P-RIB	N/A	Yes	N/A	2210	32-36	7	7	M	M	Semi-Flex	5
	D26VC72RIB	86	VT2P-RIB	Yes	Yes	HR	2060	30-38	7	8	M	M	Semi-Det	6
	D28VC33RIB	88	VT2P-RIB	Yes	Yes	HR	2120	32-38	7	7	M/S	ML	Semi-Flex	8
	D32CC56	92	Conventional	Yes	No	HR	2290	32-38	7	8	M/T	M	Semi-Flex	7
	D32RR41	92	RR2	No	No	HR	2260	32-38	6	7	T	M	Semi-Flex	8
	D32RR56	92	RR2	Yes	No	HR	2290	32-38	7	8	M/T	M	Semi-Flex	7

74 RM Available RIB: Yes

D14VC45RIB Brand

NEW
SILAGE



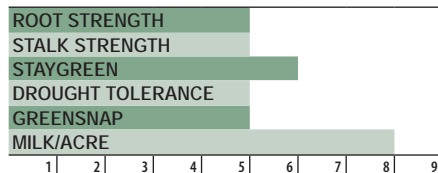
VtDoublePRO
RIB COMPLETE

- Hybrid with solid agronomics for northern movement
- Very good early season vigor and germination for quick stand establishment
- High eye appeal in season with nice late season intactness
- Strong foliar disease package

80 RM Available RIB: Yes

D20VC24RIB Brand

SILAGE



VtDoublePRO
RIB COMPLETE

- Great anthracnose stalk rot tolerance
- Good test weight
- Benefits from fungicide in high pressure gray leaf spot and northern leaf blight areas

86 RM Available RIB: Yes

D26VC64RIB Brand

SILAGE



VtDoublePRO
RIB COMPLETE

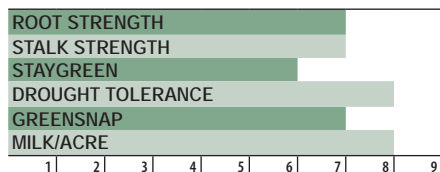
- Great stalks and roots
- Keep in zone and north
- Girthy semi-flex ear
- Medium plant and ear height with very good standability

			HARVEST					DISEASE TOLERANCE										PRODUCT
Greensnap	Stalk Strength	Root Strength	Milk/Ton	Milk/Acre	Staygreen	Husk Coverage	High Tonnage	Gray Leaf Spot	Goss's Wilt	N. Leaf Blight	S. Leaf Blight	Eye Spot	Tar Spot	Common Rust	Southern Rust	Anthrachnose	Leaf Anthrachnose	Dyna-Gro Brand
7	7	8			8	Adequate		6	6	7	7	8	6	7	5	8	7	D14VC45RIB
5	5	5			6	Adequate		4	5	6	7	6	5	7	4	8	N/A	D20VC24RIB
8	7	8			7	Short		6	6	7	N/A	N/A	N/A	N/A	N/A	5	6	D21VC81RIB
5	7	7			5	Adequate		6	5	5	7	7	5	7	4	6	N/A	D26VC64RIB
7	9	8			8	Adequate		6	6	7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	D26VC72RIB
7	7	7			6	Long		6	6	8	N/A	N/A	3	7	N/A	7	7	D28VC33RIB
6	7	8			7	Adequate		6	6	6	N/A	7	5	7	N/A	7	7	D32CC56
7	6	7			6	Adequate		N/A	8	7	N/A	9	5	8	N/A	7	7	D32RR41
6	7	8			7	Adequate		6	6	6	N/A	7	N/A	7	N/A	7	7	D32RR56

88 RM Available RIB: Yes

D28VC33RIB Brand

SILAGE

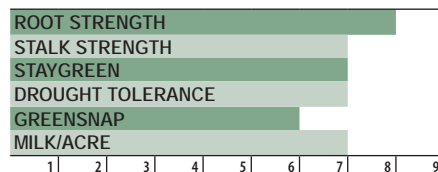
VT DoublePRO[®]
RIB COMPLETESiage
Select

- Tough acre option in late 80s RM
- Solid agronomics and yield stability
- Moderate plant stature
- Moves south of RM zone

92 RM Available RIB: No

D32CC56 Brand

SILAGE



Conventional

Siage
Select

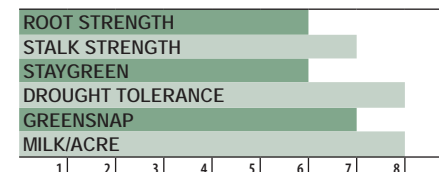
- High multi-year yield performance across west to east geography
- Consistent ear size and widely adapted to all soil types
- Medium-tall plant and medium ear height with good stress tolerance
- Good stalks and roots, good early vigor and emergence
- Widely adapted, good fungicide response

Other hybrids within family: D32VC56RIB, D32RR56

92 RM Available RIB: Yes

D32SS92RIB Brand

SILAGE

SmartStax[®]
RIB COMPLETE

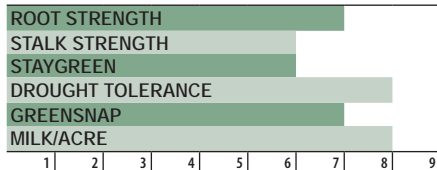
- SmartStax[®] yield leader in the early 90's RM range
- Medium-tall plant with excellent early vigor
- Good tolerance for Goss's wilt and northern leaf blight
- Excels in variable and ideal soils and has very good drought tolerance
- Girthy ear type, 16-18 kernel rows with above average test weight grain

	PRODUCT						PLANTING		GROWTH					
	Dyna-Gro Brand	RM	Technology	Silage Select™	Available Refuge Blend	Silage/Dual Purpose	GDU	Planting Population	Emergence	Seedling Vigor	Plant Height	Ear Height	Ear Flex	Drought Tolerance
	D32SS92RIB	92	SS-RIB	No	Yes	HR	2270	32-38	8	9	M/T	MH	Semi-Det	7
	D32VC41RIB	92	VT2P-RIB	No	Yes	HR	2260	32-38	6	7	T	M	Semi-Flex	7
	D32VC56RIB	92	VT2P-RIB	Yes	Yes	HR	2290	32-38	7	8	M/T	M	Semi-Flex	6
	D34SS93RIB	94	SS-RIB	No	Yes	N/A	2387	34-38	8	8	M/T	MH	Semi-Flex	7
	D34VC54RIB	94	VT2P-RIB	Yes	Yes	HR	2310	34-40	7	7	M/T	M	Semi-Flex	6
	D34VC93RIB	94	VT2P-RIB	Yes	Yes	HR	2387	34-38	8	8	M/T	MH	Semi-Flex	7
	D36VC66RIB	96	VT2P-RIB	No	Yes	HR	2350	34-38	7	8	M/T	MH	Semi-Flex	6
NEW	D37PN35RA	97	PowerCore Enlist	No	Yes	HR	2400	30-36	7	7	M	M	Semi-Flex	7
	D38VC38RIB	98	VT2P-RIB	No	Yes	HR	2390	30-38	7	8	M/T	MH	Semi-Flex	8

92 RM Available RIB: Yes

D32VC41RIB Brand

SILAGE



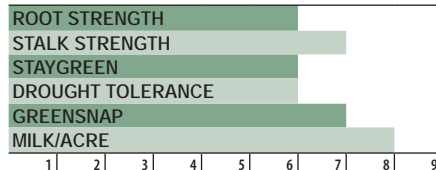
VT DoublePRO
RIB COMPLETE

- Adapted east to west with top yields and excellent plant health
- Good early plant vigor and plant health, taller plant type
- Girthy semi-flex ear with very good drydown and good husk coverage
- Best positioned in zone and south, good drought tolerance

94 RM Available RIB: Yes

D34SS93RIB Brand

SILAGE



SmartStax
RIB COMPLETE

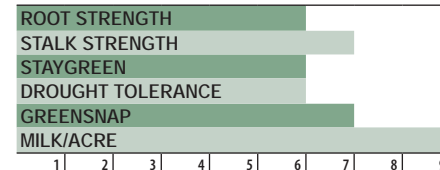
- Consistent ear size with good tip fill
- Tall/robust plant stature, with very good late season plant intactness and eye appeal
- New SmartStax® at 94 RM
- Manage placement in Goss's wilt prone areas

Other hybrid within family: D34VC93RIB

94 RM Available RIB: Yes

D34VC93RIB Brand

SILAGE



VT DoublePRO
RIB COMPLETE

Silage Select

- Consistent ear size with good tip fill
- Tall/robust plant stature
- Very good late season plant intactness and eye appeal
- Manage placement in Goss's wilt prone areas

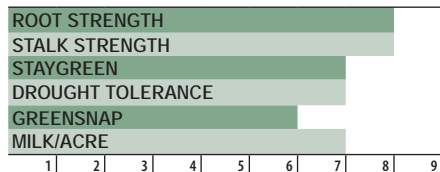
Other hybrid within family: D34SS93RIB

			HARVEST					DISEASE TOLERANCE									PRODUCT	
Greensnap	Stalk Strength	Root Strength	Milk/Ton	Milk/Acre	Staygreen	Husk Coverage	High Tonnage	Gray Leaf Spot	Goss's Wilt	N. Leaf Blight	S. Leaf Blight	Eye Spot	Tar Spot	Common Rust	Southern Rust	Anthrachnose	Leaf Anthrachnose	Dyna-Gro Brand
8	7	6			6	Adequate		6	7	7	N/A	N/A	N/A	N/A	6	9	8	D32SS92RIB
8	6	7			6	Adequate		N/A	8	7	N/A	9	N/A	8	N/A	7	7	D32VC41RIB
7	7	8			7	Adequate		6	6	6	N/A	7	5	7	N/A	7	7	D32VC56RIB
6	7	6			6	Adequate		5	5	6	8	7	5	8	5	8	8	D34SS93RIB
7	7	6			6	Adequate		6	7	6	N/A	8	N/A	8	N/A	6	6	D34VC54RIB
6	7	6			6	Adequate		5	5	6	8	7	5	8	5	8	8	D34VC93RIB
7	8	8			7	Adequate		6	6	6	N/A	N/A	6	N/A	N/A	8	7	D36VC66RIB
6	7	7			7	Med-long		5	5	5	N/A	N/A	5	N/A	N/A	N/A	N/A	D37PN35RA
7	8	8			6	Short		7	7	7	N/A	8	N/A	N/A	N/A	7	7	D38VC38RIB

96 RM D36VC66RIB *Brand*

Available RIB: Yes

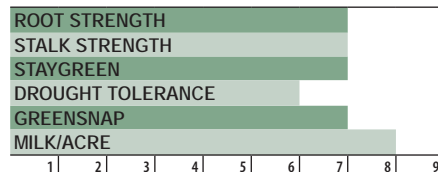
SILAGE

VT DoublePRO[®]
RIB COMPLETE

- Highest yield for maturity
- Taller plant type with outstanding stalks and roots
- Very good early vigor and tolerance for anthracnose stalk rot
- Widely adapted in zone, best central Minnesota and east
- Average for Goss's wilt, gray leaf spot, and northern leaf blight

97 RM D37PN35RA *Brand*

Available RA: Yes

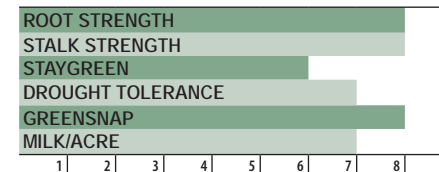
NEW
SILAGEPOWERCORE[®]
Enlist[®]
REFUSE ADVANCED[®]

- PowerCore[®] Enlist[®] offering with great agronomics
- Dual purposed product with great late season appearance
- Manage for high yield on average and better soil types
- Keep in zone and north

98 RM D38VC38RIB *Brand*

Available RIB: Yes

SILAGE

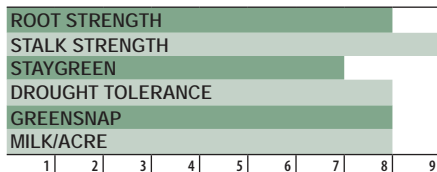
VT DoublePRO[®]
RIB COMPLETE

- Stable yields with outstanding agronomics and fast grain drydown
- Very good early vigor
- Medium-tall plant with strong stalks and excellent roots
- High test weight grain on a semi-flex ear type

	PRODUCT						PLANTING		GROWTH					
	Dyna-Gro Brand	RM	Technology	Silage Select™	Available Refuge Blend	Silage/Dual Purpose	GDU	Planting Population	Emergence	Seedling Vigor	Plant Height	Ear Height	Ear Flex	Drought Tolerance
	D39CC43	99	Conventional	Yes	No	HR	2460	32-38	8	8	M	ML	Semi-Flex	8
	D39DC43RIB	99	DG / VT2P-RIB	Yes	Yes	HR	2460	32-38	8	8	M	ML	Semi-Flex	8
	D40VC41RIB	100	VT2P-RIB	No	Yes	HR	2480	32-38	7	7	M	M	Semi-Flex	7
	D42SS20RIB	102	SS-RIB	No	Yes	HR	2440	32-38	8	8	M/T	MH	Semi-Det	7
	D43SS81RIB	103	SS-RIB	Yes	Yes	HR	2480	32-38	7	8	T	MH	Semi-Flex	8
	D43VC81RIB	103	VT2P-RIB	Yes	Yes	HR	2470	32-38	7	8	T	MH	Semi-Flex	8
NEW	D44CC25	104	Conventional	No	No	HR	2507	32-36	7	7	M/T	MH	Flex	8
NEW	D44PN25RA	104	PowerCore Enlist	No	Yes	HR	2507	32-36	7	7	M/T	MH	Flex	8
	D45TC55RIB	105	Trecepta-RIB	Yes	Yes	HR	2580	34-38	8	8	M/T	ML	Semi-Det	5

99 RM D39CC43 Brand

Available RIB: No



Conventional

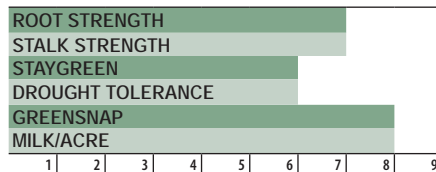
Silage Select

- Stable high yield performance, widely adapted east to west and south
- Conventional with very good natural drought tolerance
- Very good eye spot and Goss's wilt, good northern leaf blight and low greensnap risk
- Very good early vigor and semi-flex ear with average test weights
- Excellent stalks with very good roots; best in zone and south

Other hybrid within family: D39DC43RIB

100 RM D40VC41RIB Brand

Available RIB: Yes



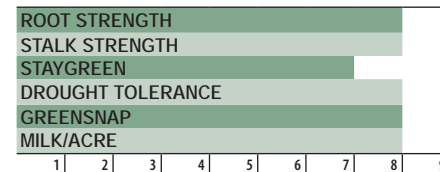
VT Double PRO

RIB COMPLETE

- Medium stature with very good standability
- Widely adapted, north to south and east to west
- Girthy ear with 18-20 kernel rows
- Dominant yield performance in 100 day range

103 RM D43SS81RIB Brand

Available RIB: Yes



SmartStax

RIB COMPLETE

Silage Select

- Very good stalks, roots, and late season intactness
- Top plant health and semi-flex ear type
- Widely adapted geographically and adapted to a wide range of plant population
- Taller plant type and a good silage option

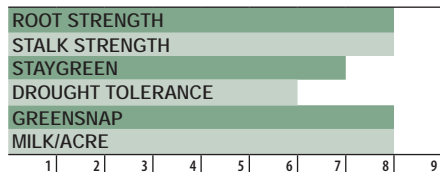
Other hybrid within family: D43VC81RIB

			HARVEST					DISEASE TOLERANCE										PRODUCT	
Greensnap	Stalk Strength	Root Strength	Milk/Ton	Milk/Acre	Staygreen	Husk Coverage	High Tonnage	Gray Leaf Spot	Goss's Wilt	N. Leaf Blight	S. Leaf Blight	Eye Spot	Tar Spot	Common Rust	Southern Rust	Anthrachnose	Leaf Anthrachnose	Dyna-Gro Brand	
8	9	8			7	Long		6	8	7	N/A	8	N/A	8	N/A	6	6	D39CC43	
8	9	8			7	Long		6	8	7	N/A	8	N/A	8	N/A	6	6	D39DC43RIB	
6	7	7			6	Medium		6	6	6	6	N/A	5	8	N/A	7	7	D40VC41RIB	
7	8	8			8	Adequate		6	6	7	N/A	N/A	N/A	N/A	N/A	7	7	D42SS20RIB	
6	8	8			7	Short		7	7	7	8	8	3	N/A	6	7	6	D43SS81RIB	
6	8	8			7	Short		7	7	7	8	8	3	N/A	6	7	6	D43VC81RIB	
6	8	5			8	Med-long		7	8	7	N/A	N/A	7	N/A	N/A	N/A	N/A	D44CC25	
6	8	5			8	Med-long		7	8	7	N/A	N/A	7	N/A	N/A	N/A	N/A	D44PN25RA	
8	8	9			6	Medium		7	8	7	N/A	N/A	5	N/A	4	7	7	D45TC55RIB	

103 RM Available RIB: Yes

D43VC81RIB Brand

SILAGE

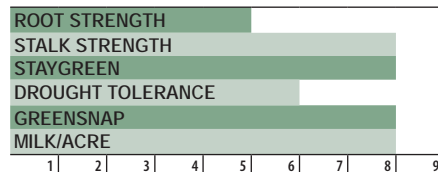


- Very good stalks, roots, and late season intactness
- Top plant health and semi-flex ear type
- Widely adapted geographically and adapted to a wide range of plant population
- Taller plant type and a good silage option

104 RM Available RIB: No

D44CC25 Brand

NEW SILAGE



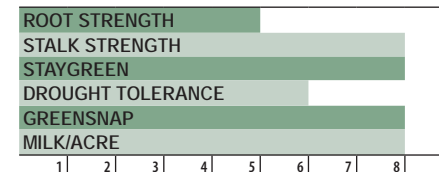
Conventional

- New conventional offering with one of the best tar spot resistance ratings in this RM range
- Dual purpose product with great stalks
- Goss's wilt and greensnap ratings help western movement
- Great staygreen and intactness

104 RM Available RA: Yes

D44PN25RA Brand

NEW SILAGE



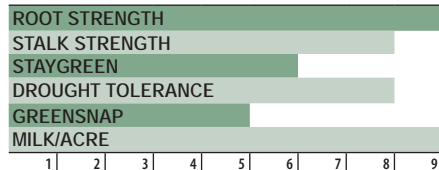
- PowerCore® Enlist® offering with one of the best tar spot resistance ratings in this RM range
- Dual purpose product with great stalks
- Goss's wilt and greensnap ratings help western movement
- Great staygreen and intactness

	PRODUCT						PLANTING		GROWTH					
	Dyna-Gro Brand	RM	Technology	Silage Select™	Available Refuge Blend	Silage/Dual Purpose	GDU	Planting Population	Emergence	Seedling Vigor	Plant Height	Ear Height	Ear Flex	Drought Tolerance
	D47CC29	107	Conventional	No	No	HR	2570	34-38	6	7	M/T	M	Semi-Det	7
	D47SS93RIB	107	SS-RIB	No	Yes	N/A	2580	34-38	7	8	M/T	MH	Semi-Det	6
	D48SS50RIB	108	SS-RIB	No	Yes	HR	2630	32-38	8	8	M	ML	Semi-Flex	7
NEW	D49CC05	109	Conventional	No	No	HR	2605	30-36	7	7	M	M	Flex	7
	D49CC70	109	Conventional	No	No	HR	2563	32-38	7	8	M	M	Semi-Det	8
NEW	D49PN05RA	109	PowerCore Enlist	No	Yes	HR	2605	30-36	7	7	M	M	Flex	7
	D49RR70	109	RR2	No	No	HR	2563	32-38	7	8	M	M	Semi-Det	8
	D49SS70RIB	109	SS-RIB	No	Yes	HR	2640	32-38	7	8	M	M	Semi-Det	8

105 RM Available RIB: Yes

D45TC55RIB Brand

SILAGE



Trecepta®
RIB COMPLETE

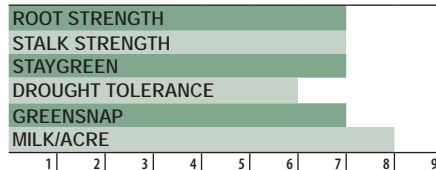
Silage Select

- Top-end yield potential in zone and moves south of zone
- Medium-tall with very good stalks and roots
- Handles high plant populations
- Excellent early vigor for early planting
- Semi-determinate ear type on red cob, good dual purpose hybrid

107 RM Available RIB: No

D47CC29 Brand

SILAGE



Conventional

- Excellent plant health with good northern leaf blight and Goss's wilt
- Good stalks and roots, adapted to higher populations
- Low greensnap risk
- Quick grain drydown after maturity

107 RM Available RIB: Yes

D47SS93RIB Brand

SILAGE



SmartStax®
RIB COMPLETE

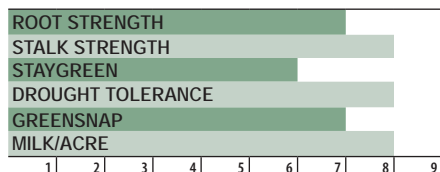
- Broad east to west adaptation in 105 and 110 CRM zones
- Good response to fungicide when targeting maximum yield and gray leaf spot is an issue
- Fast drydown
- Very good early vigor

				HARVEST					DISEASE TOLERANCE									PRODUCT	
Greensnap	Stalk Strength	Root Strength		Milk/Ton	Milk/Acre	Staygreen	Husk Coverage	High Tonnage	Gray Leaf Spot	Goss's Wilt	N. Leaf Blight	S. Leaf Blight	Eye Spot	Tar Spot	Common Rust	Southern Rust	Anthrachnose	Leaf Anthracnose	Dyna-Gro Brand
6	7	7				7	Adequate		7	7	7	7	7	3	7	N/A	6	6	D47CC29
4	6	6				6	Med-Long		5	8	6	N/A	N/A	3	7	N/A	7	7	D47SS93RIB
8	8	7				6	Adequate		6	7	7	8	N/A	N/A	N/A	8	7	7	D48SS50RIB
5	7	7				7	Med-long		7	7	4	7	N/A	5	N/A	5	N/A	N/A	D49CC05
7	7	8				7	Medium		7	6	8	8	N/A	6	N/A	5	8	8	D49CC70
5	7	7				7	Med-long		7	7	4	7	N/A	5	N/A	5	N/A	N/A	D49PN05RA
7	7	8				7	Medium		7	6	8	8	N/A	6	N/A	5	8	8	D49RR70
7	6	7				7	Medium		7	6	8	8	N/A	6	N/A	5	8	8	D49SS70RIB

108 RM Available RIB: Yes

D48SS50RIB Brand

SILAGE

SmartStax
RIB COMPLETE

- Widely adapted with high yield potential
- Medium plant stature with 16-18 kernel rows on a semi-flex ear
- Good Goss's wilt and drought tolerance with low greensnap risk
- Good northern leaf blight and anthracnose stalk rot tolerance with average gray leaf spot
- Quick drydown for early harvest

109 RM Available RIB: No

D49CC05 Brand

NEW
SILAGE

Conventional

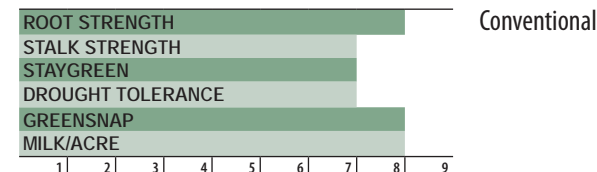
- New conventional dual purpose offering with fast drydown
- Broad east to west footprint. Best fit in 110 and 115 RM zone
- Responds to management, great Goss's wilt and gray leaf spot ratings
- Responds to fungicide where northern leaf blight is a concern

Other hybrid within family: D49PN05RA

109 RM Available RIB: No

D49CC70 Brand

SILAGE



Conventional

- Very good balance of yield potential and stability
- Good northern leaf blight, gray leaf spot, and anthracnose, with average Goss's wilt
- Medium plant stature and semi-determinate ear type
- Excellent early vigor and high test weight grain
- Good stalks and roots, fall intactness and low greensnap risk

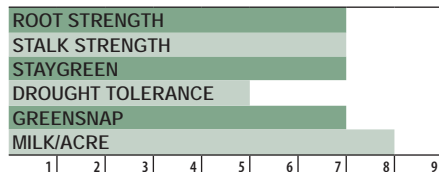
Other hybrids within family: D49SS70RIB, D49VC70RIB, D49RR70

	PRODUCT						PLANTING		GROWTH					
	Dyna-Gro Brand	RM	Technology	Silage Select™	Available Refuge Blend	Silage/Dual Purpose	GDU	Planting Population	Emergence	Seedling Vigor	Plant Height	Ear Height	Ear Flex	Drought Tolerance
	D49VC70RIB	109	VT2P-RIB	No	Yes	HR	2563	32-38	7	8	M	M	Semi-Det	8
NEW	D50SP65RIB	110	SSP-RIB	N/A	Yes	HR	2626	32-36	7	7	T	MH	Semi-Flex	8
	D50VC09RIB	110	VT2P-RIB	No	Yes	HR	2660	32-36	7	8	M/T	MH	Semi-Flex	7
	D50VC30RIB	110	VT2P	No	Yes	HR	2610	34-38	7	7	T	MH	Semi-Det	7
	D50VC78RIB	110	VT2P-RIB	Yes	Yes	HR	2620	32-38	8	9	M	MH	Semi-Det	8
NEW	D51VC95RIB	111	VT2P-RIB	32-36	Yes	N/A	2643	32-36	8	7	M	M	Semi-Flex	8
	D52CC63	112	Conventional	Yes	No	HR	2710	34-38	7	7	M/T	M	Semi-Det	6
	D52DC82RIB	112	DG / VT2P-RIB	Yes	Yes	HR	2670	32-36	7	7	T	High	Semi-Flex	8
	D52SS63RIB	112	SS-RIB	Yes	Yes	HR	2720	34-38	7	7	M/T	M	Semi-Det	6

109 RM Available RA: Yes

D49PN05RA Brand

NEW
SILAGE



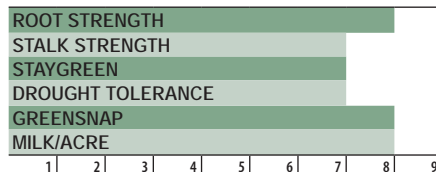
- PowerCore® Enlist® dual purpose offering with fast drydown
- Broad east to west footprint. Best fit in 110 and 115 RM zone
- Responds to management, great Goss's wilt and leaf spot ratings
- Responds to fungicide where northern leaf blight is a concern

Other hybrid within family: D49CC05

109 RM Available RIB: No

D49RR70 Brand

NEW
SILAGE



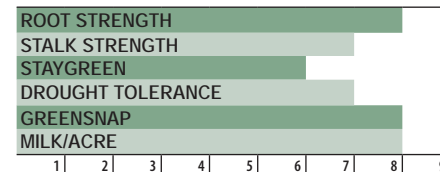
- Very good balance of yield potential and stability
- Good northern leaf blight, gray leaf spot, and anthracnose, with average Goss's wilt
- Medium plant stature and semi-determinate ear type
- Excellent early vigor and high test weight grain
- Good stalks and roots, fall intactness and low greensnap risk

Other hybrids within family: D49SS70RIB, D49VC70RIB, D49CC70

110 RM Available RIB: Yes

D50SP65RIB Brand

NEW
SILAGE



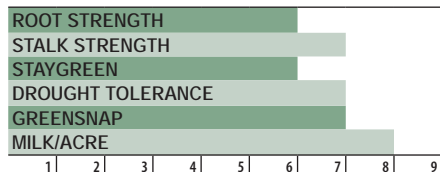
- Strong performance east to west
- Very good agronomic package with good stalks and root strength
- Good early season stand establishment and vigor
- Dual purpose silage/grain potential

			HARVEST					DISEASE TOLERANCE										PRODUCT	
Greensnap	Stalk Strength	Root Strength	Milk/Ton	Milk/Acre	Staygreen	Husk Coverage	High Tonnage	Gray Leaf Spot	Goss's Wilt	N. Leaf Blight	S. Leaf Blight	Eye Spot	Tar Spot	Common Rust	Southern Rust	Anthracnose	Leaf Anthracnose	Dyna-Gro Brand	
7	7	8			7	Medium		7	6	8	8	N/A	6	N/A	5	8	8	D49VC70RIB	
7	7	8			6	Adequate		7	7	7	8	8	4	8	6	8	7	D50SP65RIB	
7	7	6			6	Adequate		7	7	8	7	N/A	3	N/A	6	8	7	D50VC09RIB	
7	8	8			8	Adequate		7	8	8	8	8	N/A	7	5	7	7	D50VC30RIB	
7	8	8			6	Med-Long		7	7	8	8	N/A	5	N/A	5	6	6	D50VC78RIB	
7	8	8			7	Adequate		5	8	6	8	8	4	8	5	7	7	D51VC95RIB	
7	7	7			7	Adequate		5	7	8	8	N/A	N/A	N/A	5	7	7	D52CC63	
7	8	8			7	Long		6	7	8	8	N/A	N/A	N/A	5	7	7	D52DC82RIB	
7	7	7			7	Adequate		5	7	8	8	N/A	6	N/A	5	7	7	D52SS63RIB	

110 RM Available RIB: Yes

D50VC09RIB Brand

SILAGE

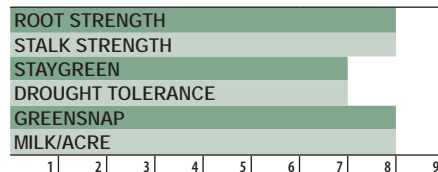
VT Double PRO
RIB COMPLETE

- Widely adapted east to west and north to south with exceptional top end yield potential
- Medium-tall plant with semi-flex ear type
- Good Goss's wilt and gray leaf spot
- Very good northern leaf blight and anthracnose stalk rot tolerance

111 RM Available RIB: Yes

D52CC63 Brand

SILAGE

Conventional
Silage Select

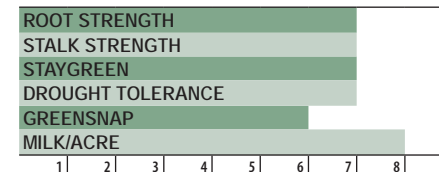
- Very good agronomic package
- Very good Goss's wilt and greensnap rating allow western performance
- Attractive phenotype and harvest appearance
- Moves north of zone as a full season option

Other hybrids within family: D52SS63RIB, D52VC63, D52RR63

112 RM Available RIB: Yes

D52SS63RIB Brand

SILAGE

SmartStax
RIB COMPLETE
Silage Select

- Responds well to good soils and high management, fungicide recommended
- High test weight and deep grain on a semi-determinate ear
- Good stalk and roots, an excellent silage option
- Good tolerance for Goss's wilt, northern leaf blight, southern leaf blight, and anthracnose
- Moves south of zone

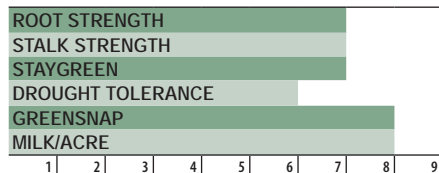
Other hybrids within family: D52VC63, D52CC63

	PRODUCT						PLANTING		GROWTH					
	Dyna-Gro Brand	RM	Technology	Silage Select™	Available Refuge Blend	Silage/Dual Purpose	GDU	Planting Population	Emergence	Seedling Vigor	Plant Height	Ear Height	Ear Flex	Drought Tolerance
	D52SS82RIB	112	SS-RIB	Yes	Yes	HR	2670	32-36	7	7	M/S	M	Semi-Flex	8
	D52VC63	112	VT2P	Yes	Yes	HR	2710	34-38	7	7	M/T	M	Semi-Det	6
	D53CC33	113	Conventional	No	No	HR	2720	32-36	7	7	M/T	M	Semi-Flex	7
NEW	D53SP85RIB	113	SSP-RIB	N/A	Yes	R	2681	N/A	7	7	M/T	M	Semi-Det	7
	D53SS13RIB	113	SS-RIB	No	Yes	HR	2730	32-38	8	8	M/T	M	Semi-Det	7
	D53VC33RIB	113	VT2P-RIB	No	Yes	HR	2720	32-36	7	7	M/T	M	Semi-Flex	7
	D54SS34RIB	114	SS-RIB	No	Yes	HR	2750	32-38	7	8	M	M	Semi-Flex	7
	D54VC34	114	VT2P	No	Yes	HR	2740	32-38	7	8	M/T	M	Semi-Flex	7
	D55CC80	115	Conventional	Yes	No	HR	2780	32-36	7	8	M/T	MH	Semi-Flex	6

112 RM Available RIB: Yes

D52SS82RIB Brand

SILAGE


SmartStax
RIB COMPLETE

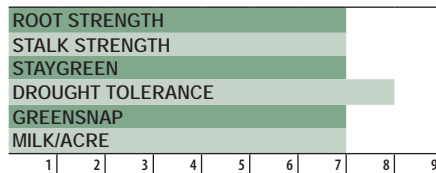
Silage Select

- Balance of stress tolerance and top end yield potential
- Broadly adapted west to east
- Good heat tolerance
- Very good stalks and roots
- Semi-flex ear, average test weight and very fast drydown

Other hybrid within family: D52DC82RIB
113 RM Available RIB: No

D53CC33 Brand

SILAGE


Conventional

- Broadly adapted with consistent high yield over years and environments
- Excellent agronomic package on a medium-tall plant
- High test weight grain, semi-flex ear, good drought tolerance
- Very good late season intactness and staygreen
- Excellent silage option


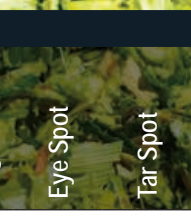
Other hybrid within family: D53VC33RIB
113 RM Available RIB: Yes

D53SP85RIB Brand

NEW SILAGE


SmartStax PRO
RIB COMPLETE

- Strong agronomic package
- SSP with very high yield potential
- Disease package allow east to west placement
- Dual purpose silage/grain potential
- Attractive phenotype

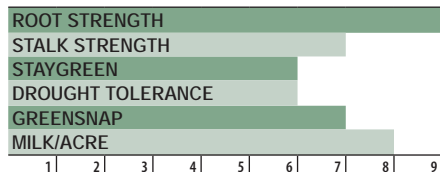
			HARVEST					DISEASE TOLERANCE										PRODUCT	
																			
6	7	7			7	Long		6	7	8	8	N/A	N/A	N/A	6	8	7	D52SS82RIB	
7	7	7			7	Adequate		5	7	8	8	N/A	6	N/A	5	7	7	D52VC63	
8	7	7			7	Med-Long		7	6	7	7	N/A	5	6	5	6	6	D53CC33	
7	8	8			6	Adequate		6	8	7	8	8	4	8	4	7	7	D53SP85RIB	
6	7	9			6	Short		7	7	8	8	N/A	N/A	N/A	5	7	7	D53SS13RIB	
8	7	7			7	Med-Long		7	6	7	7	N/A	5	6	5	6	6	D53VC33RIB	
7	7	8			8	Long		7	7	7	8	N/A	N/A	N/A	5	7	6	D54SS34RIB	
7	7	8			8	Long		7	7	7	8	N/A	N/A	N/A	5	5	5	D54VC34	
6	7	8			8	Adequate		7	7	8	8	N/A	N/A	N/A	N/A	7	7	D55CC80	

113 RM D53SS13RIB

Available RIB: Yes

Brand

SILAGE

SmartStax[®]
RIB COMPLETE

- Highest yield potential for maturity in zone
- Medium-tall plant type, good stalks and excellent roots
- Widely adapted in zone, best fit on productive soils
- Good tolerance for Goss's wilt, gray leaf spot, northern leaf blight, and southern leaf blight
- Semi-determinate, girthy ear with high test weight grain

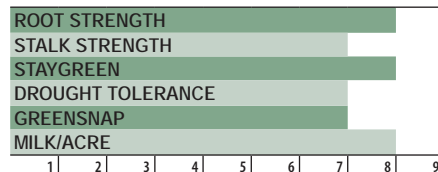
Other hybrid within family: D53CC13WX

114RM D54SS34RIB

Available RIB: Yes

Brand

SILAGE

SmartStax[®]
RIB COMPLETE

- Medium plant type with semi-flex ear and very good test weight
- Good plant health: good gray leaf spot, Goss's wilt, northern leaf blight, southern leaf blight
- Medium-tall plant type with semi-flex ear and very good test weight
- Full canopy with good shading
- Well adapted to Corn Belt areas needing SmartStax[®] trait

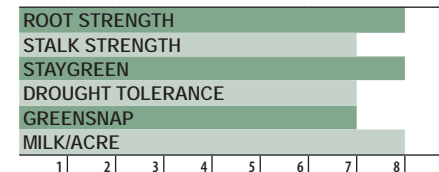
Other hybrid within family: D53VC34

114 RM D54VC34

Available RIB: Yes

Brand

SILAGE

VTDoublingPRO[®]
Siage Select

- Medium-tall plant type with semi-flex ear and very good test weight
- Good plant health: good gray leaf spot, Goss's wilt, northern leaf blight, southern leaf blight
- Medium-tall plant type with semi-flex ear and very good test weight
- Full canopy with good shading

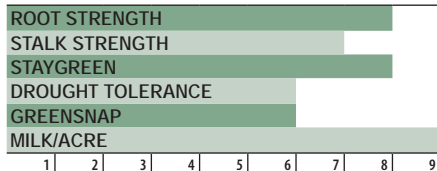
Other hybrid within family: D54SS34RIB

PRODUCT							PLANTING		GROWTH					
	Dyna-Gro Brand	RM	Technology	Silage Select™	Available Refuge Blend	Silage/Dual Purpose	GDU	Planting Population	Emergence	Seedling Vigor	Plant Height	Ear Height	Ear Flex	Drought Tolerance
D55QC73		115	Vip 3110	No	No	HR	2800	30-36	7	7	T	M	Flex	7
D55VC45		115	VT2P	No	Yes	HR	2770	32-36	8	8	M/T	MH	Semi-Flex	7
D55VC80		115	VT2P	Yes	Yes	HR	2780	32-36	7	8	M/T	MH	Semi-Flex	6
D57TC29RIB		117	Trecepta	No	Yes	HR	2800	30-36	7	8	T	MH	Semi-Flex	8
D57VC17		117	VT2P	Yes	Yes	HR	2840	32-36	7	9	T	MH	Semi-Det	8
D57VC75		117	VT2P	Yes	Yes	HR	2800	32-38	7	7	T	MH	Semi-Det	7
D58QC72		118	Vip 3110	Yes	No	NR	2870	N/A	7	7	M/T	M	Semi-Flex	7
D58SS65		118	SS	No	Yes	HR	2850	32-36	8	8	M	M	Semi-Flex	7

115 RM D55CC80 Brand

Available RIB: No

SILAGE



Conventional

Silage Select

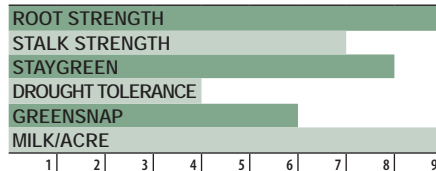
- Highest overall yield in the line-up
- Very good southern leaf blight, northern leaf blight and southern rust, good gray leaf spot and Goss's wilt
- Medium-tall plant with semi-flex ear type
- Widely adapted, best central and east

Other hybrid within family: D55VC80

115 RM D55QC73 Brand

Available RIB: No

SILAGE



Agrisure
Viptera
3110

- Excellent grain quality and high IVSD7 ratings - food grade qualities
- Tall plant with medium ear placement, good plant health and very good Total Tract Neutral Detergent Fiber Digestibility (TTNDFD)
- Very good roots and stalks
- Exhibits excellent staygreen during drydown
- Widely adapted south on irrigated acres

Other hybrid within family: D55GT73

115 RM D55VC80 Brand

Available RIB: Yes

SILAGE



VT DoublePRO

Silage Select

- Highest overall yield in the line-up
- Very good southern leaf blight, northern leaf blight and southern rust, good gray leaf spot and Goss's wilt
- Medium-tall plant with semi-flex ear type
- Widely adapted, best central and east

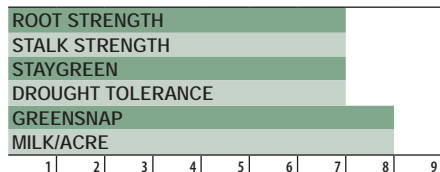
Other hybrid within family: D55CC80

			HARVEST					DISEASE TOLERANCE										PRODUCT	
Greensnap	Stalk Strength	Root Strength	Milk/Ton	Milk/Acre	Staygreen	Husk Coverage	High Tonnage	Gray Leaf Spot	Goss's Wilt	N. Leaf Blight	S. Leaf Blight	Eye Spot	Tar Spot	Common Rust	Southern Rust	Anthracnose	Leaf Anthracnose	Dyna-Gro Brand	
4	7	9			8	Medium		8	7	6	7	6	N/A	6	6	7	7	D55GT73	
7	8	8			8	Adequate		7	7	7	8	N/A	N/A	6	6	5	5	D55VC45	
6	7	8			8	Adequate		7	7	8	8	N/A	N/A	N/A	N/A	7	7	D55VC80	
7	7	7			7	Long		6	7	7	8	N/A	N/A	N/A	5	8	7	D57TC29RIB	
7	8	9			9	Adequate		7	7	8	6	N/A	N/A	6	5	6	6	D57VC17	
7	8	6			8	Long		6	7	8	9	7	N/A	6	4	6	6	D57VC75	
6	7	7			6	8		8	7	6	7	6	5	6	6	7	7	D58QC72	
7	8	7			7	Adequate		7	7	8	8	N/A	N/A	6	7	6	6	D58SS65	

117 RM D57TC29RIB Brand

Available RIB: Yes

SILAGE

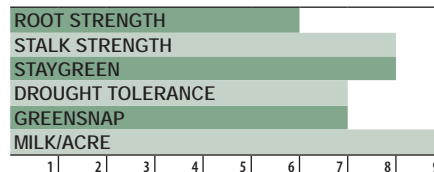
Trecepta[®]
RIB COMPLETE

- Tall hybrid with robust canopy and adapted to full season areas
- Good Goss's wilt, northern leaf blight, southern leaf blight, and Anthracnose, average gray leaf spot
- Semi-flex ear and pink cob with high test weight grain
- Good drought tolerance and staygreen with excellent intactness

117 RM D57VC75 Brand

Available RIB: Yes

SILAGE

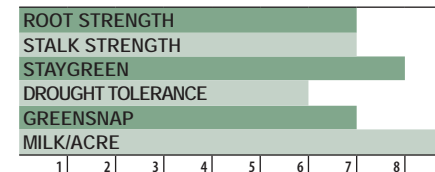
VTDoubling^{PRO}
Silage Select

- 117 day dual purpose hybrid with top forage tonnage or grain yield
- Excellent staygreen and late season intactness
- Tall hybrid with semi-determinate ear type and low greensnap risk
- Excellent silage hybrid in west growing conditions of California and Arizona

118 RM D58QC72 Brand

Available RIB: No

SILAGE

Agrisure
Viptera[®] 3110
Silage Select

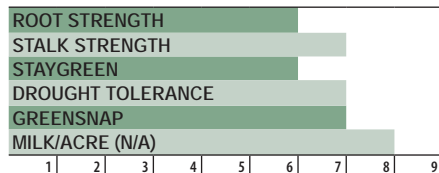
- Silage only Silage Select[™] hybrid with high milk per ton and Agrisure Viptera[®] 3110
- Excellent late season plant health with excellent earworm control for quality silage
- Best suited southern markets on irrigated acres
- Consistent ear size and excellent eye appeal with good starch content and high starch digestibility
- Excellent tip fill with very good milk per ton and milk per acre potential

	PRODUCT						PLANTING		GROWTH					
	Dyna-Gro Brand	RM	Technology	Silage Select™	Available Refuge Blend	Silage/Dual Purpose	GDU	Planting Population	Emergence	Seedling Vigor	Plant Height	Ear Height	Ear Flex	Drought Tolerance
	D58VC22	118	VT2P	No	No	HR	2860	30-32	7	7	M/T	M	Semi-Flex	7
	D58VC65	118	VT2P	No	Yes	HR	2830	32-36	8	8	M	M	Semi-Flex	7
NEW	D60TC45	120	Trecepta	HR	Yes	HR	2865	32-36	7	7	T	H	Semi-Flex	8

118 RM Available RIB: No

D58VC22 Brand

SILAGE



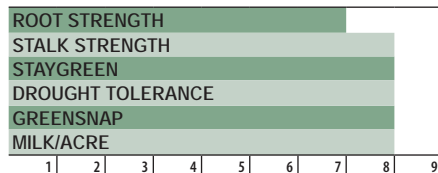
VT DoublePRO

- Consistent yield and adapted to various soil types
- Medium-tall with wide leaves and full canopy
- Good grain quality and test weight
- Good plant health, good southern rust tolerance

120 RM Available RIB: Yes

D60TC45 Brand

NEW SILAGE



Trecepta

- Handles heat and drought stress
- Large plant stature with very good silage tonnage and quality
- Good tolerance to southern rust
- Large plant with good agronomics

			HARVEST				DISEASE TOLERANCE										PRODUCT	
Greensnap	Stalk Strength	Root Strength	Milk/Ton	Milk/Acre	Staygreen	Husk Coverage	High Tonnage	Gray Leaf Spot	Goss's Wilt	N. Leaf Blight	S. Leaf Blight	Eye Spot	Tar Spot	Common Rust	Southern Rust	Anthrachnose	Leaf Anthrachnose	Dyna-Gro Brand
7	7	6			6	Adequate		6	7	8	8	N/A	N/A	N/A	7	6	6	D58VC22
7	8	7			7	Adequate		7	7	8	8	N/A	N/A	6	7	6	6	D58VC65
8	8	7			8	Adequate		7	5	7	8	8	5	8	7	8	8	D60TC45



RATING SCALE: 9 = Excellent 7-8 = Very Good 5-6 = Good 3-4 = Fair 1-2 = Poor N/A = Information Not Available Red = New



SOYBEANS

At home on any acre.

DYNAGRO
SEED

LEGEND

RATING SCALE:

- 9 = Excellent
- 7-8 = Very Good
- 5-6 = Good
- 3-4 = Fair
- 1-2 = Poor
- N/A = Information Not Available

Ratings given are approximate and should not be considered as absolute. Ratings are based on Dyna-Gro® Seed conducted trials and are relative to other Dyna-Gro® Seed Brand soybeans.

HERBICIDE TOLERANT TRAITS:

- ENLIST = Enlist E3®
- ENLIST/STS = Enlist E3® with STS stacked
- RR2XT = Roundup Ready 2 Xtend®
- RR2XT/STS = Roundup Ready 2 Xtend® with STS stacked
- XTFlex = XtendFlex®
- XTFlex/STS = XtendFlex® with STS stacked
- CONV = Conventional
- CONV/STS = Conventional with STS trait

PLANT HEIGHT:

- S = Short
- M/S = Medium-Short
- M = Medium
- M/T = Medium-Tall
- T = Tall

PLANT TYPE:

- I = Indeterminate
- D = Determinate

CANOPY TYPE:

- T = Thin or Narrow
- MT = Moderately-Thin
- M = Moderate or Intermediate
- MB = Moderately-Bushy
- B = Bushy or Full

FLOWER COLOR:

- P = Purple
- W = White

CHLORIDE SENSITIVITY:

- EXC = Excluder
- INC = Includer

PHYTOPHTHORA GENE RESISTANCE:

- R** = Denotes resistance to specific Race
- HRps = Denotes Heterozygous resistance (partial resistance) to the specific gene noted
- S = Susceptible or no specific gene resistance (unshaded white cell)

PHYTOPHTHORA ROOT ROT – RACE RESISTANCE:

Gene	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45		
Rps1a	R	R								R	R			R	R	R	R	R							R		R	R				R	R				R										
Rps1c	R	R	R				R	R	R	R	R	R		R		R					R			R	R		R		R	R	R			R			R					R	R		R		
Rps1k	R	R	R	R	R	R			R	R	R	R		R	R			R	R				R	R	R		R								R	R						R	R		R		
Rps3a	R	R	R	R	R				R	R			R		R									R								R	R	R	R	R							R			R	R
Rps6	R	R	R	R						R			R		R	R			R	R	R	R				R				R											R	R	R	R	R		

PHYTOPHTHORA FIELD TOLERANCE:

- Score designates reaction to Phytophthora sojae Race 25 for commercial genes Rps1a, Rps1c and Rps1k
- Score designates reaction to Phytophthora sojae Race 30 for commercial genes Rps3a and Rps6
- Score may also be based upon in-field observations in addition to the specific Race reaction
- Phytophthora Field Tolerance scores are important for races of Phytophthora not covered by specific resistant genes
- Refer to chart for specific Phytophthora gene resistance

HILUM COLOR:

BL = Black
BR = Brown
IB = Imperfect Black
BF = Buff
G = Gray

PUBESCENCE:

G = Gray
T = Tawny
LT = Light Tawny

POD COLOR:

BR = Brown
TN = Tan

SOYBEAN CYST NEMATODE:

R = Resistant
MR = Moderately Resistant
S = Susceptible
= Number Denotes Race Resistance

TECHNOLOGY:

EN = Enlist E3®
ES = Enlist E3® and STS stack
XT = Roundup Ready 2 Xtend®
XS = Roundup Ready 2 Xtend® and STS stack
XF = XtendFlex®

"S" at end = STS stack

DYNA-GRO SOYBEAN NUMBER SYSTEM

1st Character = S=Soybean
2nd & 3rd Character = Relative Maturity*
4th & 5th Character = Technology
6th Character = Assigned number
7th Character = Last number represents year of release

Examples: S25EN74 = Enlist E3 at 2.5 Maturity & S47XF23S = XtendFlex & STS stack at 4.7 Maturity

*For group 00 products, 2nd, 3rd and 4th digits represent relative maturity

No dicamba may be used in-crop with seed with Roundup Ready® Xtend Technology, unless and until approved or specifically permitted, and no dicamba formulations are currently registered for such use in the 2024 season.

Please follow <https://www.roundupreadyxtend.com/pages/xtendimax-updates.aspx> for status updates.

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

ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS.

It is a violation of federal and state law to use any pesticide product other than in accordance with its labeling. NOT ALL formulations of dicamba or glyphosate are approved for in-crop use with Roundup Ready 2 Xtend® soybeans. NOT ALL formulations of dicamba, glyphosate or glufosinate are approved for in-crop use with products with XtendFlex® Technology. ONLY USE FORMULATIONS THAT ARE SPECIFICALLY LABELED FOR SUCH USES AND APPROVED FOR SUCH USE IN THE STATE OF APPLICATION.

Contact the U.S. EPA and your state pesticide regulatory agency with any questions about the approval status of dicamba herbicide products for in-crop use with products with XtendFlex® Technology.

Roundup Ready 2 Xtend® soybeans contain genes that confer tolerance to glyphosate and dicamba. Products with XtendFlex® Technology contains genes that confer tolerance to glyphosate, glufosinate and dicamba. Plants that are not tolerant to glyphosate may be damaged or killed if exposed to those herbicides. Plants that are not tolerant to glyphosate, dicamba, and/or glufosinate may be damaged or killed if exposed to those herbicides. Plants that are not tolerant to dicamba may be damaged or killed if exposed to those herbicides. Contact your seed brand dealer or refer to the Bayer Technology Use Guide for recommended weed control programs. Roundup Ready 2 Xtend®, Roundup Ready 2 Yield®, Roundup Ready® and XtendFlex® are registered trademarks of Bayer Group. LibertyLink logo® and LibertyLink® are trademarks of BASF Corporation. ©2024 Bayer Group. All rights reserved.

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, Corteva Agriscience's product launch process for responsible launches of new products includes a long-standing 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.

Seeds containing the PowerCore® Enlist®, PowerCore® Enlist® Refuge Advanced®, and Enlist® Corn - REFUGE traits are protected under one or more U.S. patents which can be found at: www.traitstewardship.com. The purchase of this traited seed includes a limited license to produce a single crop in the United States. The use of seed from such a crop and/or the progeny thereof for propagation or seed multiplication or for production or development of a hybrid or different variety of seed is strictly prohibited. You acknowledge and agree to be bound by the terms and conditions of the following documents in effect at the time of planting of this seed: (i) the Corteva Agriscience Technology Use Agreement and (ii) the Product Use Guides for all technologies in this seed, including the Herbicide Resistance Management (HRM), and Use requirements.

To plant PowerCore Enlist, PowerCore Enlist Refuge Advanced, and Enlist Corn - REFUGE 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 a 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. [Resources/trait-stewardship.html](https://www.traitstewardship.html).

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 Corteva Agriscience technologies can be found at the following webpage: www.corteva.us/

Following burndown, Enlist Duo® and Enlist One® herbicides with Colex-D® technology are the only herbicides containing 2,4-D that are authorized for preemergence and postemergence use with Enlist® corn and soybeans. Consult Enlist® herbicide labels for weed species controlled. Enlist Duo and Enlist One herbicides are not registered for use or sale in all states and counties; are not registered in AK, CA, CT, HI, ID, MA, ME, MT, NH, NV, OR, RI, UT, VT, WA and WY; and have additional subcounty restrictions in AL, GA, TN and TX, while existing county restrictions still remain in FL. All users must check "Bulletins Live! Two" no earlier than six months before using Enlist One or Enlist Duo. To obtain "Bulletins," consult epa.gov/espp/, call 1-844-447-3813, or email ESPP@epa.gov. You must use the "Bulletin" valid for the month and state and county in which Enlist One or Enlist Duo are being applied. Contact your state pesticide regulatory agency if you have questions about the registration status of Enlist® herbicides in your area.

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. ONLY USE FORMULATIONS THAT ARE SPECIFICALLY LABELED FOR SUCH USE IN THE STATE OF APPLICATION. USE OF PESTICIDE PRODUCTS, INCLUDING, WITHOUT LIMITATION, 2,4-D-CONTAINING PRODUCTS NOT AUTHORIZED FOR USE WITH ENLIST CORN AND SOYBEANS, MAY RESULT IN OFF-TARGET DAMAGE TO SENSITIVE CROPS/AREAS AND/OR SUSCEPTIBLE PLANTS, IN ADDITION TO CIVIL AND/OR CRIMINAL PENALTIES. Additional product-specific stewardship requirements for Enlist crops, including the Enlist Product Use Guide, can be found at www.traitstewardship.com.

The transgenic soybean event in Enlist E3® soybeans is jointly developed and owned by Corteva Agriscience and M.S. Technologies, L.L.C.™ © Trademarks of Corteva Agriscience and its affiliated companies.

STS® APPROVED HERBICIDE STATEMENT: This variety contains a trait providing enhanced tolerance to labeled specific sulfonylurea soybean herbicides. The STS® gene will not safeguard this variety against other herbicide chemistries which are labeled to be used only over-the-top of crops that have a different and specified herbicide resistant gene. Always read and follow herbicide directions prior to use. Not all herbicides are registered for sale or use in all states or counties in the United States or all provinces in Canada. Contact your local regulatory agency to determine if a product is registered for sale or use in your area. Always read and follow label directions. ACCIDENTAL APPLICATION OF INCOMPATIBLE HERBICIDES TO THIS VARIETY COULD RESULT IN TOTAL CROP LOSS. YOU MUST SIGN A TECHNOLOGY USE AGREEMENT AND READ THE PRODUCT USE GUIDE PRIOR TO PLANTING. The purchase of these seeds includes a limited license to produce a single soybean crop in the United States (or other applicable country). The use of seed from such a crop or the progeny thereof for propagation or seed multiplication or for production or development of a hybrid or different variety of seed is strictly prohibited. Resale or transfer of the seed is strictly prohibited.

Performance may vary from location to location and from year to year, as local growing, soil and weather conditions may vary. Growers should evaluate data from multiple locations and years whenever possible.

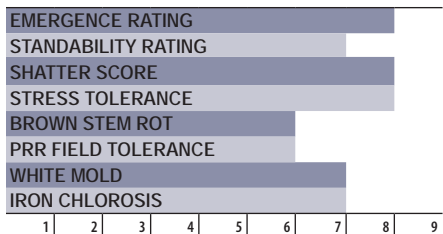
Salto® is a seed treatment fungicide which provides protection from listed seed- and soil-borne diseases of rapeseed (including canola) crop subgroup 20A and soybean. Salto is effective against seed and seedling blight or damping-off caused by listed seed- and soil-borne Fusarium spp., including Fusarium virguliforme, the causal organism of Sudden Death Syndrome (SDS) in soybean and seed- and soil-borne black leg (Leptosphaeria maculans) in canola. Salto also provides activity against listed plant parasitic nematodes. Where rate ranges are shown, use the higher rate when disease pressure is expected to be severe.

Read all label directions for use. Salto®, is a Trademark of Syngenta Group Company. ©2024 Syngenta.

DYNAGROSEED.COM

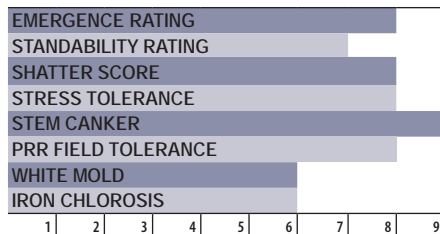
	PRODUCT			PRODUCTION						PLANT ATTRIBUTES						
	Dyna-Gro Brand	Technology	Maturity	Emergence	Row Width	Standability	Stress Tolerance	Iron Deficiency Chlorosis	Shatter Resistance	Plant Height	Plant Type	Canopy Type	Flower Color	Hilum Color	Pubescence	Pod Color
	S006XF83	XTFlex	0.06	8	All	7	8	7	8	M/T	I	M	P	BR	LT	BR
	S009EN24	ENLIST	0.09	8	All	7	8	6	8	M	I	MB	P	BF	G	TN
	S009XF33	XTFlex	0.09	9	All	8	7	7	8	M	I	MB	P	BL	T	BR
NEW	S01XF25	XTFlex	0.1	7	All	7	8	7	7	M/T	I	MB	P	BL	LT	BR
	S01XF43	XTFlex	0.1	8	All	7	7	6	8	M/T	I	MB	P	BL	T	BR
	S03EN94	ENLIST	0.3	8	All	8	9	6	8	M/T	I	M	P	IB	G	TN
	S05EN82	ENLIST	0.5	8	All	7	8	7	8	M	I	MB	P	BF	G	BR
	S05XF73	XTFlex	0.5	8	All	7	8	7	8	M/T	I	MB	P	BR	LT	BR

0.06 RM S006XF83 Brand



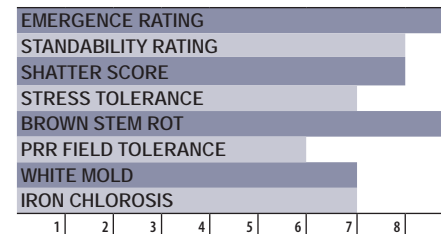
- Dyna-Gro's earliest XtendFlex® offering features broad adaptability for northern environments
- Very good tolerance for iron deficiency chlorosis and *Sclerotinia* white mold
- Medium-tall plant height with moderate lateral branching and good standability
- Rps1c gene with average field tolerance score for *Phytophthora* root rot
- Stable performance across environments and ability to move south of its maturity zone

0.09 RM S009EN24 Brand



- Enlist E3® soybean introduction features broad adaptability across yield environments
- Good iron deficiency chlorosis tolerance
- Rps3a gene with excellent field tolerance for *Phytophthora* root rot
- Medium-plus plant height with very good lateral branching and very good standability

0.09 RM S009XF33 Brand



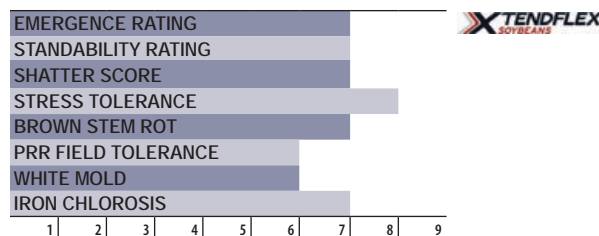
- Late group 00 XtendFlex® release is ideal for productive environments in its maturity zone
- Very good tolerance for iron deficiency chlorosis and resistance for brown stem rot
- Medium height plant with good lateral branching and excellent standability
- Rps1k gene for *Phytophthora* root rot and above average *Sclerotinia* white mold tolerance

DISEASE TOLERANCE														PRODUCT
Soybean Cyst Nematode	SCN Source of Resistance	Phytophthora Resistance	Phytophthora Field Tolerance	Sclerotinia White Mold	Brown Stem Rot	Sudden Death Syndrome	Frogeye Leaf Spot	Stem Canker	Charcoal Rot	Cercospora Leaf Blight	Southern Root Knot Nematode	Metribuzin Tolerance	Chloride Sensitivity	Dyna-Gro Brand
S	N/A	Rps1c	6	7	6	N/A	N/A	9	N/A	N/A	N/A	N/A	INC	S006XF83
R3, MR14	PI88788	Rps3a	8	6	2	N/A	N/A	9	7	N/A	N/A	N/A	INC	S009EN24
S	N/A	Rps1k	6	7	9	N/A	N/A	N/A	N/A	N/A	N/A	7	INC	S009XF33
MR3	PI88788	Rps1c	6	6	7	4	N/A	N/A	6	N/A	2	5	INC	S01XF25
S	N/A	Rps1k	6	6	2	N/A	N/A	N/A	N/A	N/A	N/A	7	INC	S01XF43
R3, MR14	PI88788	Rps3a	8	7	2	N/A	N/A	9	7	N/A	N/A	N/A	EXC	S03EN94
R3, MR14	PI88788	Rps3a	8	6	9	N/A	N/A	9	6	N/A	N/A	5	INC	S05EN82
R3, MR14	PI88788	Rps1c	7	6	5	N/A	N/A	N/A	N/A	N/A	N/A	7	INC	S05XF73

0.06-0.5 RELATIVE MATURITY

0.1 RM S01XF25 Brand

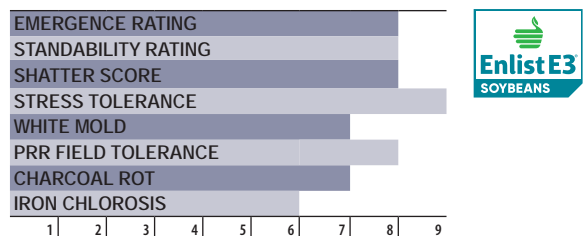
NEW
SOYBEANS



- Early group 0 XtendFlex® release features improved iron deficiency chlorosis tolerance
- Rps1c gene for *Phytophthora* root rot and moderate resistance for cyst nematode
- Moderate resistance for brown stem rot and good *Sclerotinia* white mold tolerance
- Very good stress tolerance and maintains height moving west

0.3 RM S03EN94 Brand

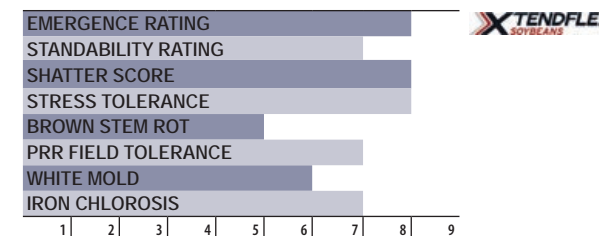
SOYBEANS



- Enlist E3® soybean introduction has broad adaptation across all soil types and environments
- Average tolerance for iron deficiency chlorosis and excluder for chloride salts
- Rps3a gene for *Phytophthora* root rot and very good *Sclerotinia* white mold tolerance
- Medium-tall plant height with moderate lateral branching and excellent standability
- Replaces S02EN71 with nearly a four bushel yield advantage

0.5 RM S05XF73 Brand

SOYBEANS

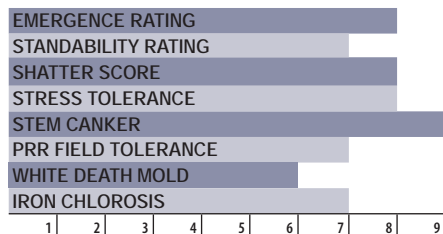


- XtendFlex® release at mid-group 0 maturity that is ideal for heavier soil types
- Medium-tall plant height with moderate-bushy plant type and good standability for height
- Rps1c gene with very good field tolerance for *Phytophthora* root rot
- Above average tolerance scores for iron deficiency chlorosis and *Sclerotinia* white mold
- Good yield stability across environments and ability to move north or south of maturity zone

0.06-0.5 RELATIVE MATURITY

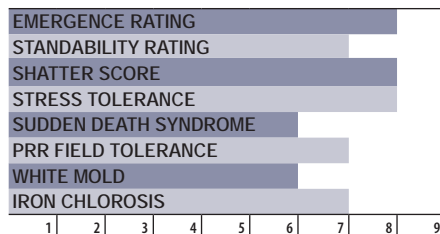
	PRODUCT			PRODUCTION						PLANT ATTRIBUTES						
	Dyna-Gro Brand	Technology	Maturity	Emergence	Row Width	Standability	Stress Tolerance	Iron Deficiency Chlorosis	Shatter Resistance	Plant Height	Plant Type	Canopy Type	Flower Color	Hilum Color	Pubescence	Pod Color
NEW	S07EN45	ENLIST	0.7	8	All	7	8	7	8	M	I	M	P	IB	G	TN
	S09EN53	ENLIST	0.9	8	All	7	8	7	8	M	I	M	P	IB	G	TN
NEW	S09XF55	XTFlex	0.9	7	All	8	8	6	9	M/T	I	MT	P	BL	LT	TN
	S12EN72	ENLIST	1.2	8	All	7	8	7	8	M/T	I	M	P	IB	G	TN
	S12XF92	XTFlex	1.2	8	All	8	8	7	8	M	I	M	P	BL	LT	BR
	S14EN22	ENLIST	1.4	8	All	7	7	6	8	M/T	I	M	P	BL	LT	TN
	S14XF43	XTFlex	1.4	8	All	7	8	6	8	M/T	I	M	P	BR	LT	BR
	S16EN42	ENLIST	1.6	8	All	7	7	7	8	M	I	MB	P	BF	G	TN

0.7 RM S07EN45 Brand

NEW
SOYBEANS

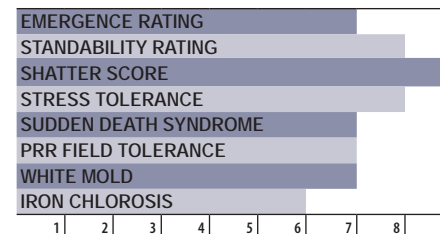
- Enlist E3® soybean introduction features the Peking source of resistance for cyst nematode
- Rps1c gene for *Phytophthora* root rot and good tolerance for *Sclerotinia* white mold
- Above average tolerance for iron deficiency chlorosis
- Medium plant height, moderate lateral branching and good standability

0.9 RM S09EN53 Brand

NEW
SOYBEANS

- Enlist E3® soybean release features a step change for performance and adaptability across environments
- Very good tolerance for iron deficiency chlorosis and resistance for brown stem rot
- Medium plant height with good lateral branching and very good standability
- Resistance for cyst nematode with very good field tolerance for *Phytophthora* root rot
- Very good tolerance for charcoal rot and maintains height under stress environments

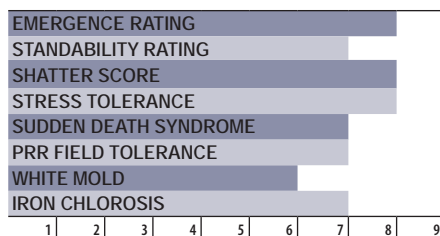
0.9 RM S09XF55 Brand

NEW
SOYBEANS

- XtendFlex® introduction featuring nice agronomics and excellent yield potential for maturity
- Rps1c gene for *Phytophthora* root rot and moderate resistance for brown stem rot
- Very good tolerance scores for sudden death syndrome and *Sclerotinia* white mold
- Medium-tall plant height with moderate upright branching and excellent standability
- Consistent performance across environments and ability to move south of its maturity zone

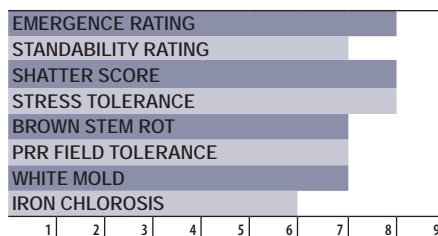
DISEASE TOLERANCE														PRODUCT
Soybean Cyst Nematode	SCN Source of Resistance	Phytophthora Resistance	Phytophthora Field Tolerance	Sclerotinia White Mold	Brown Stem Rot	Sudden Death Syndrome	Frogeye Leaf Spot	Stem Canker	Charcoal Rot	Cercospora Leaf Blight	Southern Root Knot Nematode	Metribuzin Tolerance	Chloride Sensitivity	Dyna-Gro Brand
R1, R3	Peking	Rps1c	7	6	2	N/A	N/A	9	6	N/A	2	7	INC	S07EN45
R3, MR14	PI88788	S	7	6	9	6	N/A	9	7	N/A	N/A	N/A	INC	S09EN53
R3, MR14	PI88788	Rps1c	7	7	7	7	N/A	9	6	N/A	2	7	INC	S09XF55
R3, MR14	PI88788	Rps1c	7	6	N/A	7	N/A	9	7	N/A	N/A	7	EXC	S12EN72
R3, MR14	PI88788	HRps3a	7	7	9	6	N/A	9	6	N/A	N/A	7	INC	S12XF92
R3, MR14	PI88788	S	7	6	9	7	N/A	9	6	N/A	N/A	5	INC	S14EN22
MR3, MR14	PI88788	Rps1c, 3a	7	7	7	7	N/A	9	7	N/A	N/A	8	INC	S14XF43
R3, MR14	PI88788	Rps3a	8	6	9	7	N/A	9	6	N/A	N/A	5	INC	S16EN42

1.2 RM S12EN72 Brand



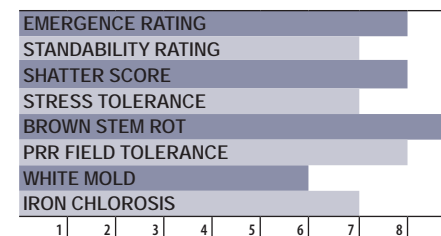
- Early group I Enlist E3® soybean release features very good tolerance for iron deficiency chlorosis
- Medium-tall plant height and moderate canopy width with strong standability scores
- Rps1c gene for *Phytophthora* root rot and above average tolerance for *Sclerotinia* white mold
- Very good tolerance for sudden death syndrome and charcoal rot
- Very good yield stability observed across environments west to east

1.4 RM S14XF43 Brand



- XtendFlex® release features sound agronomics and a proven genetic background
- Rps1c and Rps3a genes with very good field tolerance for *Phytophthora* root rot
- Strong tolerance scores for *Sclerotinia* white mold and sudden death syndrome
- Medium-tall plant height with moderate lateral branching and good standability
- Moderate resistance for brown stem rot and good tolerance for iron deficiency chlorosis

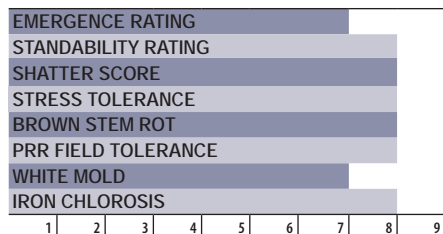
1.6 RM S16EN42 Brand



- Mid-group I Enlist E3® soybean release is a yield performance leader for its maturity
- Rps3a gene for *Phytophthora* root rot and strong tolerance for sudden death syndrome
- Good tolerance for iron deficiency chlorosis and resistance for brown stem rot
- Medium plant height with nice lateral branching and very good standability

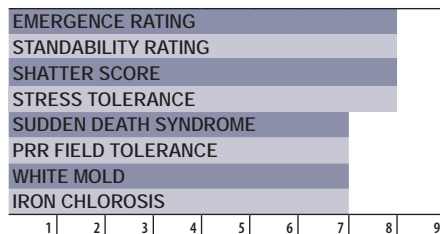
	PRODUCT			PRODUCTION						PLANT ATTRIBUTES						
	Dyna-Gro Brand	Technology	Maturity	Emergence	Row Width	Standability	Stress Tolerance	Iron Deficiency Chlorosis	Shatter Resistance	Plant Height	Plant Type	Canopy Type	Flower Color	Hilum Color	Pubescence	Pod Color
NEW	S16EN75	ENLIST	1.6	7	All	8	8	8	8	M	I	M	P	BR	LT	TN
	S17XF02	XTFlex	1.7	8	All	8	7	7	8	M/T	I	M	P	BR	LT	BR
NEW	S18EN35	ENLIST	1.8	8	All	8	8	7	8	M	I	M	P	BF	G	TN
NEW	S19XF45	XTFlex	1.9	8	All	7	8	7	7	M/T	I	M	P	BL	LT	TN
	S20EN84	ENLIST	2.0	9	All	7	8	7	8	M/T	I	M	P	BR	LT	TN
	S20EN92	ENLIST	2.0	7	All	7	7	6	8	M/T	I	M	P	IB	G	BR
	S21EN81	ENLIST	2.1	8	All	7	8	6	8	M	I	M	P	IB	G	BR
	S2207N	CONV	2.2	8	All	8	8	8	8	M	I	MB	P/W	BR	LT	TN
NEW	S22XF95	XTFlex	2.2	7	All	6	8	7	7	M/T	I	MB	W	BL	LT	BR

1.6 RM S16EN75 Brand

NEW
SOYBEANS

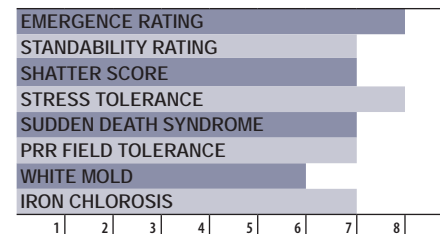
- New Enlist E3® soybean featuring the Peking source of resistance for cyst nematode
- Excellent iron deficiency chlorosis tolerance and very good *Sclerotinia* white mold tolerance
- Rps1k & Rps6 genes for *Phytophthora* root rot and resistance for brown stem rot
- Medium plant height with good lateral branching and excellent standability

1.8 RM S18EN35 Brand

NEW
SOYBEANS

- Enlist E3® soybean introduction featuring the Peking source of resistance for cyst nematode
- Very good tolerance for iron deficiency chlorosis and sudden death syndrome
- Rps1k gene for *Phytophthora* root rot and strong *Sclerotinia* white mold tolerance
- Medium plant height with moderate lateral branching and strong standability scores

1.9 RM S19XF45 Brand

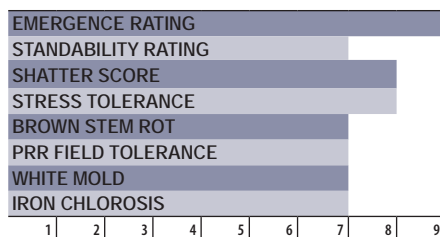
NEW
SOYBEANS

- XtendFlex® release features broad adaptation across environments west to east
- Very good tolerance scores for sudden death syndrome, *Phytophthora* root rot and charcoal rot
- Medium-tall plant height, moderate lateral branching and very good standability
- Resistance for brown stem rot and stem canker
- Strong stress tolerance and ability to move north or south of its maturity zone

	DISEASE TOLERANCE														PRODUCT
	Soybean Cyst Nematode	SCN Source of Resistance	Phytophthora Resistance	Phytophthora Field Tolerance	Sclerotinia White Mold	Brown Stem Rot	Sudden Death Syndrome	Frogeye Leaf Spot	Stem Canker	Charcoal Rot	Cercospora Leaf Blight	Southern Root Knot Nematode	Metribuzin Tolerance	Chloride Sensitivity	Dyna-Gro Brand
	R1, R3, R5	Peking	Rps1k, 6	8	7	8	7	7	9	N/A	7	2	7	INC	S16EN75
	R3	PI88788	Rps1c	7	7	8	7	N/A	9	6	N/A	N/A	8	INC	S17XF02
	R1, R3, MR5	Peking	Rps1k	7	7	3	7	N/A	9	6	N/A	2	7	INC	S18EN35
	R3	PI88788	S	7	6	9	7	N/A	9	7	N/A	2	7	INC	S19XF45
	R1, R3, R5	Peking	Rps1k	7	7	7	6	7	9	N/A	6	N/A	7	INC	S20EN84
	MR3	PI88788	Rps1c	7	6	7	7	6	9	5	N/A	N/A	7	INC	S20EN92
	R3, MR14	PI88788	Rps1k	7	7	9	6	N/A	9	5	N/A	N/A	7	N/A	S21EN81
	MR3, MR14	PI88788	Rps1a	7	7	8	6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	S2207N
	MR3	PI88788	Rps1c	6	7	5	8	5	9	N/A	N/A	2	8	INC	S22XF95

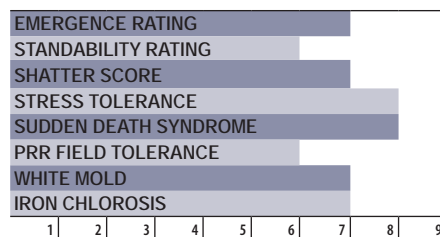
2.0 RM S20EN84 Brand

SOYBEANS



- Enlist E3® soybean featuring the Peking source of resistance for cyst nematode
- Medium-tall plant height, moderate lateral branching and good standability for height
- Good tolerance for iron deficiency chlorosis and moderate resistance for brown stem rot
- Rps1k gene for *Phytophthora* root rot and above average tolerance for white mold
- Excellent performance in the west with solid performance moving east

2.2 RM S22XF95 Brand

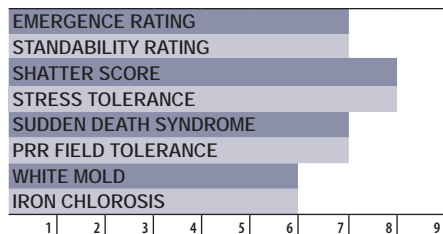
NEW
SOYBEANS

- XtendFlex® introduction features broad adaptation across environments
- Strong tolerance scores for sudden death syndrome and *Sclerotinia* white mold
- Medium-tall plant height, moderate-bushy canopy type and average standability
- Rps1c gene for *Phytophthora* root rot and very good iron deficiency chlorosis tolerance
- High stress tolerance with ability to handle drought prone environments



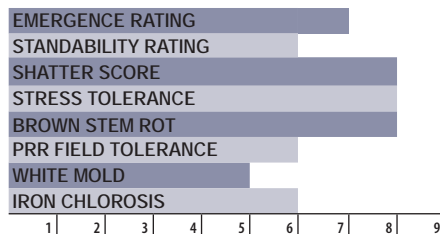
	PRODUCT			PRODUCTION						PLANT ATTRIBUTES						
	Dyna-Gro Brand	Technology	Maturity	Emergence	Row Width	Standability	Stress Tolerance	Iron Deficiency Chlorosis	Shatter Resistance	Plant Height	Plant Type	Canopy Type	Flower Color	Hilum Color	Pubescence	Pod Color
NEW	S23EN05	ENLIST	2.3	7	All	7	8	6	8	M/T	I	MB	P	BL	LT	TN
	S2409N	CONV	2.4	8	All	7	7	8	8	M	I	MB	P	BL	LT	BR
	S25EN74	ENLIST	2.5	7	All	6	8	6	8	M/T	I	MB	P	BL	LT	TN
	S25XF64	XTFlex	2.5	8	All	7	8	6	8	M/T	I	M	P	IB	G	BR
	S26EN53	ENLIST	2.6	8	All	7	8	7	8	M/T	I	M	P	BF	G	TN
	S26XF42	XTFlex	2.6	8	All	6	8	7	8	M	I	MB	P	BF	G	TN
	S2872N	CONV	2.8	9	All	7	9	6	9	M/T	I	MB	P	BL	LT	BR
	S28EN22	ENLIST	2.8	8	All	7	7	7	8	M	I	M	W	BF	G	TN
NEW	S28XF85	XTFlex	2.8	7	All	7	8	6	8	M/T	I	MB	P	IB	G	BR

2.3 RM S23EN05 Brand

NEW
SOYBEANS

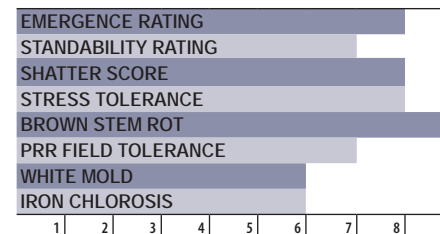
- Enlist E3® soybean release features improved agronomics with broad adaptation east to west
- Stacked Rps1c & Rps3a genes for *Phytophthora* root rot and very good sudden death syndrome tolerance
- Medium-tall plant height with very good lateral branching and good standability
- Resistance for cyst nematode with average tolerance for *Sclerotinia* white mold
- Tested as SX23623EN in 2023 strip and research trials

2.5 RM S25EN74 Brand

NEW
SOYBEANS

- Enlist E3® soybean introduction features the Peking source of resistance for cyst nematode
- Medium-tall plant height, very good lateral branching with good standability
- Very good tolerance for sudden death syndrome and resistance for stem canker
- Rps1k gene for *Phytophthora* root rot and moderate resistance for brown stem rot
- Broad adaptation for all soil types east to west

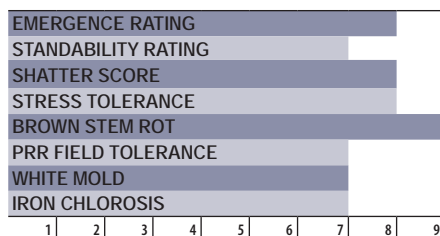
2.5 RM S25XF64 Brand

NEW
SOYBEANS

- XtendFlex® introduction provides broad adaptability across all yield environments
- Rps1c gene for *Phytophthora* root rot and resistance for brown stem rot
- Medium-tall plant height with moderate lateral branching and good standability
- Above average tolerance for *Sclerotinia* white mold and charcoal rot
- Avoid placement in fields with high pH levels or history for iron deficiency chlorosis

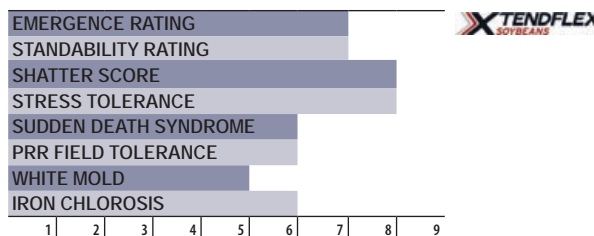
	DISEASE TOLERANCE														PRODUCT
	Soybean Cyst Nematode	SCN Source of Resistance	Phytophthora Resistance	Phytophthora Field Tolerance	Sclerotinia White Mold	Brown Stem Rot	Sudden Death Syndrome	Frogeye Leaf Spot	Stem Canker	Charcoal Rot	Cercospora Leaf Blight	Southern Root Knot Nematode	Metribuzin Tolerance	Chloride Sensitivity	Dyna-Gro Brand
	R3	PI88788	Rps1c, 3a	7	6	6	7	6	9	N/A	6	2	5	INC	S23EN05
	MR3	PI88788	S	7	6	5	6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	S2409N
	R1, R3, R5	Peking	Rps1k	6	5	8	7	7	9	N/A	N/A	N/A	7	INC	S25EN74
	R3, MR14	PI88788	Rps1c	7	6	9	6	N/A	9	7	N/A	N/A	N/A	INC	S25XF64
	R3, MR14	PI88788	Rps1c	7	7	9	7	6	9	7	N/A	N/A	N/A	INC	S26EN53
	R3, MR14	PI88788	S	7	5	9	6	N/A	9	5	N/A	N/A	4	N/A	S26XF42
	R3, MR14	PI88788	Rps1c	7	N/A	7	7	N/A	N/A	7	N/A	N/A	6	N/A	S2872N
	MR3	PI88788	Rps1k, 3a	7	6	7	7	6	9	6	N/A	N/A	7	INC	S28EN22
	R3	PI88788	S	6	5	9	6	N/A	9	N/A	N/A	2	8	INC	S28XF85

2.6 RM S26EN53 Brand



- Enlist E3® soybean release features sound agronomics for broad adaptability across environments
- Rps1c gene for *Phytophthora* root rot and resistance for brown stem rot
- Very good tolerance scores for sudden death syndrome and iron deficiency chlorosis
- Medium-tall plant height with moderate branching plant type and very good standability
- Very good tolerance for stress environments and good charcoal rot tolerance

2.8 RM S28XF85 Brand



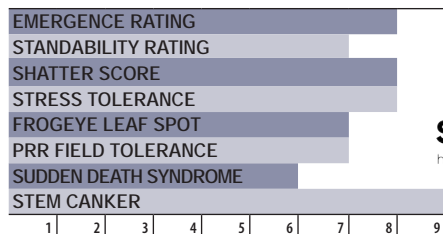
- Late group II XtendFlex® introduction features broad adaptability east to west
- Resistance for brown stem rot with average field tolerance for *Phytophthora* root rot
- Medium-tall plant height with good lateral branching and very good standability
- Good tolerance for sudden death syndrome and resistance for stem canker
- Avoid placement in fields with high pH levels or history for iron deficiency chlorosis



	PRODUCT			PRODUCTION						PLANT ATTRIBUTES						
	Dyna-Gro Brand	Technology	Maturity	Emergence	Row Width	Standability	Stress Tolerance	Iron Deficiency Chlorosis	Shatter Resistance	Plant Height	Plant Type	Canopy Type	Flower Color	Hilum Color	Pubescence	Pod Color
	S28XF92S	XTFlex/STS	2.8	8	All	6	7	7	8	M/T	I	M	P	G	G	TN
	S29EN62	ENLIST	2.9	8	All	7	8	6	8	M	I	MB	P	IB	G	BR
NEW	S29ES45	ENLIST/STS	2.9	8	All	7	8	6	8	M/T	I	MB	P	IB	G	BR
	S31EN14	ENLIST	3.1	7	All	7	7	7	8	M	I	MB	P	BF	G	TN
	S31EN91	ENLIST	3.1	8	All	7	8	7	8	M/T	I	MB	W	BF	G	BR
NEW	S31XF05	XTFlex	3.1	8	All	8	7	6	8	M	I	M	P	BF	G	BR
	S31XF82	XTFlex	3.1	8	All	6	8	6	8	T	I	M	P	IB	G	BR
	S3305N	CONV	3.3	8	All	6	8	6	8	M/T	I	M	P	BL	LT	BR
	S33EN42	ENLIST	3.3	8	All	6	9	6	8	M	I	MB	P	BL	LT	BR

2.9 RM S29ES45 Brand

NEW
SOYBEANS

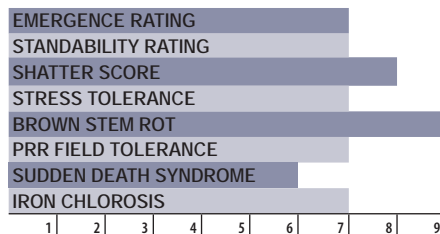


STS*
herbicide tolerant trait

- Enlist E3® soybean and STS® introduction features parentage of Dyna-Gro's S35EN99
- Strong field tolerance for *Phytophthora* root rot and resistance for stem canker
- Medium-tall plant height with good lateral branching and very good standability
- Good tolerance scores for sudden death syndrome, frogeye leaf spot and charcoal rot
- Maintains height across soil types for yield consistency across environments

3.1 RM S31EN14 Brand

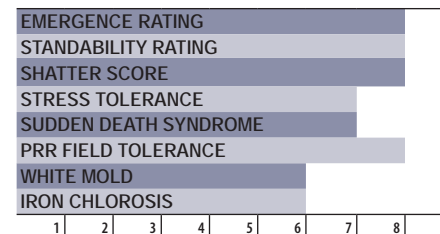
NEW
SOYBEANS



- Enlist E3® soybean introduction is ideal for placement in productive environments central and west
- Medium-plus plant height with nice lateral branching and standability for broad acre fit
- Above average sudden death syndrome and iron deficiency chlorosis tolerance
- Resistance for brown stem rot and very good *Phytophthora* root rot field tolerance
- Proven parental background of our popular S35EN99

3.1 RM S31XF05 Brand

NEW
SOYBEANS



- Early group III XtendFlex® introduction features great agronomics and top performance
- Rps1c & 3a genes with excellent field tolerance for *Phytophthora* root rot
- Very good sudden death syndrome tolerance and resistance for brown stem rot
- Medium-plus plant height with moderate lateral branching and very good standability

	DISEASE TOLERANCE														PRODUCT
	Soybean Cyst Nematode	SCN Source of Resistance	Phytophthora Resistance	Phytophthora Field Tolerance	Sclerotinia White Mold	Brown Stem Rot	Sudden Death Syndrome	Frogeye Leaf Spot	Stem Canker	Charcoal Rot	Cercospora Leaf Blight	Southern Root Knot Nematode	Metribuzin Tolerance	Chloride Sensitivity	Dyna-Gro Brand
	R3, MR14	PI88788	Rps1c	7	6	9	6	N/A	9	6	N/A	N/A	4	N/A	S28XF92S
	R3, MR14	PI88788	Rps1k	7	6	N/A	6	N/A	9	7	N/A	N/A	7	N/A	S29EN62
	R3, MR14	PI88788	S	7	5	3	6	7	9	7	N/A	2	7	INC	S29ES45
	R3, MR14	PI88788	S	7	6	9	6	6	9	6	6	N/A	N/A	INC	S31EN14
	R3, MR14	PI88788	Rps1c	8	5	7	6	8	8	N/A	N/A	N/A	6	N/A	S31EN91
	R3	PI88788	Rps1c, 3a	8	6	9	7	N/A	9	7	N/A	2	6	INC	S31XF05
	R3, MR14	PI88788	Rps1c	6	6	9	7	N/A	9	N/A	N/A	N/A	7	INC	S31XF82
	MR3	PI88788	Rps1k	7	6	7	7	7	N/A	4	N/A	N/A	6	N/A	S3305N
	R3, MR14	PI88788	S	7	5	9	7	6	9	7	N/A	N/A	7	N/A	S33EN42

Seed Stewardship Policy

Dyna-Gro Seed is committed to providing our customers with superior genetics and the newest technology available. We believe this approach allows our customers to achieve the highest possible return on their investment. It is our responsibility as an industry to properly steward patented genetics and technology to sustain continued development of new genetics and future technologies. We must continue to reach new yield goals, through both improved genetics and new technologies, to feed a growing world population and maintain a quality food supply. We support the laws that are in place surrounding variety protection and technology patents.

Seed containing a patented trait can only be used to plant a single commercial crop. It is unlawful to save and replant seed from that crop. Examples of seed containing a patented trait include but are not limited to Roundup Ready 2 Yield® soybeans, Roundup Ready 2 Xtend® soybeans, XtendFlex® soybeans, Roundup Ready® spring canola, Roundup Ready® winter canola, and TruFlex™ canola with Roundup Ready® Technology. Additional information and limitations on the use of these products 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. Roundup Ready®, Roundup® and TruFlex™ are trademarks of Bayer Group.

	PRODUCT			PRODUCTION						PLANT ATTRIBUTES						
	Dyna-Gro Brand	Technology	Maturity	Emergence	Row Width	Standability	Stress Tolerance	Iron Deficiency Chlorosis	Shatter Resistance	Plant Height	Plant Type	Canopy Type	Flower Color	Hilum Color	Pubescence	Pod Color
	S33XF62	XTFlex	3.3	8	All	8	7	6	8	M	I	M	P	IB	G	TN
	S35EN99	ENLIST	3.5	8	All	7	8	6	8	M	I	MB	P	IB	G	TN
	S35ES82	ENLIST/STS	3.5	8	All	7	7	5	8	M	I	M	P	IB	G	TN
	S35XF44	XTFlex	3.5	8	All	7	7	6	8	M	I	MB	P	BL	LT	BR
	S3681STS	CONV/STS	3.6	8	All	8	8	6	8	M	I	B	P	BL	LT	BR
	S36ES70	ENLIST/STS	3.6	9	All	8	7	8	8	M/T	I	M	W	BF	G	BR
	S37ES52	ENLIST/STS	3.7	7	All	7	8	6	8	M	I	MB	P	BL	LT	BR
NEW	S37XF15	XTFlex	3.7	8	All	7	8	5	7	M/T	I	MB	P	IB	G	BR



ENLIST® WEED CONTROL SYSTEM— PROVEN CONTROL OF TOUGH WEEDS

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

SOYBEANS 2,4-D choline | Glyphosate | Glufosinate

CORN 2,4-D choline | Glyphosate | Glufosinate | FOP Herbicides



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

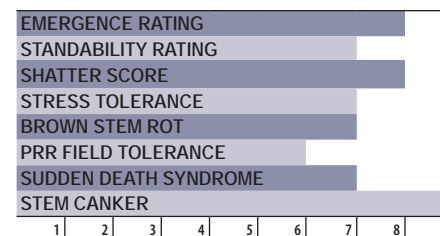


- Straight-goods 2,4-D choline with additional tank-mix flexibility
- Provides additional tank-mix flexibility with Liberty® herbicide and other qualified tank-mix products, allowing for a customized weed control program to fit each farm

On-Target Application

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

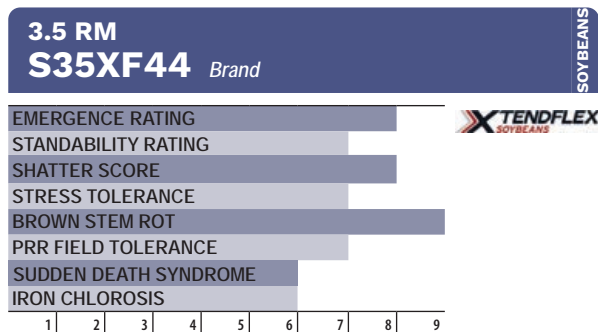
3.5 RM S35ES82 Brand



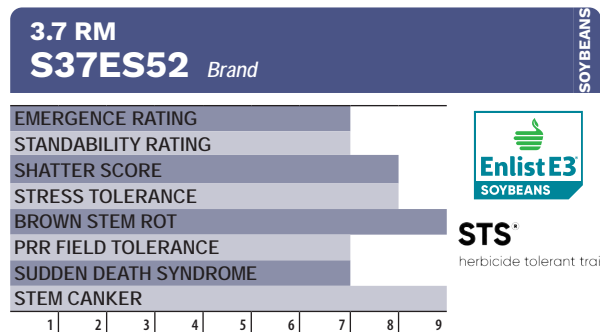
STS®
herbicide tolerant trait

- Mid-group III Enlist E3® soybean release that features solid agronomics and broad adaptability east to west
- Very good tolerance for sudden death syndrome and resistance for stem canker
- Rps1c gene for *Phytophthora* root rot and moderate resistance for brown stem rot
- Medium plant height with moderate lateral branching and very good standability
- Performance favors well drained soils within its maturity zone of adaptation

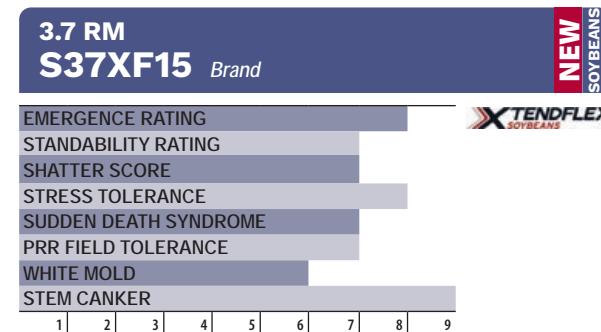
	DISEASE TOLERANCE														PRODUCT
	Soybean Cyst Nematode	SCN Source of Resistance	Phytophthora Resistance	Phytophthora Field Tolerance	Sclerotinia White Mold	Brown Stem Rot	Sudden Death Syndrome	Frogeye Leaf Spot	Stem Canker	Charcoal Rot	Cercospora Leaf Blight	Southern Root Knot Nematode	Metribuzin Tolerance	Chloride Sensitivity	Dyna-Gro Brand
	R3, MR14	PI88788	S	6	6	9	7	N/A	9	N/A	N/A	N/A	6	INC	S33XF62
	R3, MR14	PI88788	S	8	N/A	9	6	6	N/A	8	N/A	N/A	N/A	N/A	S35EN99
	MR3	PI88788	Rps1c	6	5	7	7	N/A	9	6	N/A	N/A	7	INC	S35ES82
	R3, MR14	PI88788	Rps3a	7	5	9	6	4	9	N/A	N/A	2	5	EXC	S35XF44
	R3	PI88788	S	7	N/A	5	7	6	9	N/A	N/A	N/A	7	INC	S3681STS
	R3, MR14	PI88788	Rps1k	8	N/A	3	6	8	9	4	N/A	N/A	6	N/A	S36ES70
	R3, MR14	PI88788	Rps1k	7	6	9	7	6	9	7	N/A	N/A	7	INC	S37ES52
	R3	PI88788	Rps1c	7	6	N/A	7	5	9	N/A	N/A	2	5	INC	S37XF15



- XtendFlex® introduction features great fit for productive acres
- Rps3a gene for *Phytophthora* root rot and resistance for brown stem rot
- Excluder for chloride salts with average tolerance for sudden death syndrome
- Medium-plus plant height with very good lateral branching and standability scores
- Planned fungicide program may be warranted for frogeye leaf spot control



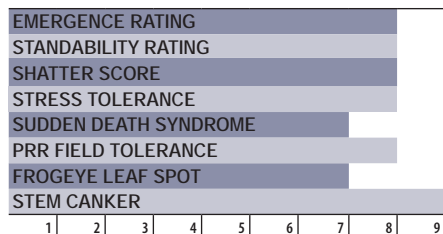
- Enlist E3® soybean and STS® release featuring best in class for sudden death syndrome tolerance
- Rps1k gene for *Phytophthora* root rot with resistance for brown stem rot
- Medium plant height with good lateral branching and very good standability scores
- Above average tolerance for frogeye leaf spot and resistance for stem canker
- Broadly adapted across environments with exceptional performance moving east



- XtendFlex® introduction features the next level of performance for its maturity
- Resistance for stem canker and very good sudden death syndrome tolerance
- Medium-tall plant height with good lateral branching and very good standability
- Rps1c gene with very good field tolerance for *Phytophthora* root rot
- Very good stress tolerance and yield stability across environments

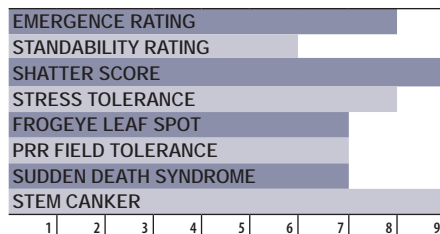
	PRODUCT			PRODUCTION						PLANT ATTRIBUTES						
	Dyna-Gro Brand	Technology	Maturity	Emergence	Row Width	Standability	Stress Tolerance	Iron Deficiency Chlorosis	Shatter Resistance	Plant Height	Plant Type	Canopy Type	Flower Color	Hilum Color	Pubescence	Pod Color
	S37XF33	XTFlex	3.7	8	All	7	7	6	8	M/T	I	M	P	BL	LT	BR
NEW	S38EN75	ENLIST	3.8	8	All	8	8	6	8	M	I	M	W	BL	LT	BR
	S38XF22S	XTFlex/STS	3.8	8	All	6	8	N/A	9	M/T	I	B	P	BL	LT	BR
	S3961STS	CONV/STS	3.9	8	All	7	8	7	8	M	I	MB	W	BR	LT	BR
	S39EN19	ENLIST	3.9	8	All	7	8	7	8	M/T	I	MB	W	BF	G	BR
	S40EN54	ENLIST	4.0	8	All	7	7	N/A	8	M/T	I	MB	P	BL	LT	TN
	S40XF21S	XTFlex/STS	4.0	8	All	6	8	5	8	T	I	M	P	IB	G	TN
	S4122STS	CONV/STS	4.1	8	All	7	8	N/A	8	M	I	MB	P	BL	LT	BR
	S41EN72	ENLIST	4.1	9	All	7	9	N/A	8	M/T	I	MB	W	BR	LT	BR

3.8 RM S38EN75 Brand

NEW
SOYBEANS


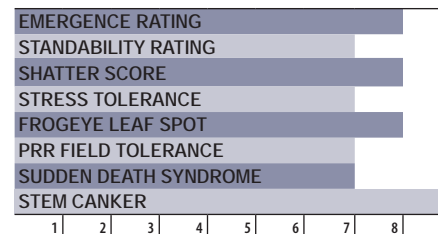
- Enlist E3® soybean introduction featuring the proven parentage of Dyna-Gro's S2872N
- Very good tolerance scores for frogeye leaf spot and sudden death syndrome
- Medium-plus plant height with moderate lateral branching and strong standability scores
- Rps1k gene for *Phytophthora* root rot and resistance for stem canker
- Strong tolerance for stress with excellent yield stability across environments

3.8 RM S38XF22S Brand

NEW
SOYBEANS


- Late group III XtendFlex® line features a diverse genetic background with strong agronomics
- Very good tolerance for sudden death syndrome and resistance for stem canker
- Very good tolerance scores for frogeye leaf spot and *Phytophthora* root rot
- Medium-tall plant height with bushy canopy type and good standability for height
- Strong ability to move south of its maturity zone of adaptation

4.0 RM S40EN54 Brand

NEW
SOYBEANS


- Enlist E3® soybean introduction featuring a new genetic background with strong agronomics
- Medium-tall plant height with very good lateral branching and very good standability
- Very good tolerance for frogeye leaf spot and average sudden death syndrome tolerance
- Rps1c gene for *Phytophthora* root rot and resistance for stem canker
- Well adapted for all yield environments and soil types east to west

	DISEASE TOLERANCE														PRODUCT
	Soybean Cyst Nematode	SCN Source of Resistance	Phytophthora Resistance	Phytophthora Field Tolerance	Sclerotinia White Mold	Brown Stem Rot	Sudden Death Syndrome	Frogeye Leaf Spot	Stem Canker	Charcoal Rot	Cercospora Leaf Blight	Southern Root Knot Nematode	Metribuzin Tolerance	Chloride Sensitivity	Dyna-Gro Brand
	MR3, MR14	PI88788	S	7	N/A	7	7	8	9	6	N/A	N/A	N/A	INC	S37XF33
	R3	PI88788	Rps1k	8	N/A	3	7	7	9	7	N/A	2	7	INC	S38EN75
	MR3	PI88788	Rps1a	7	N/A	N/A	7	7	9	N/A	7	2	7	INC	S38XF22S
	R3	PI88788	S	7	N/A	4	7	6	9	N/A	N/A	N/A	5	INC	S3961STS
	R3, MR14	PI88788	S	7	N/A	3	7	7	9	N/A	N/A	N/A	N/A	N/A	S39EN19
	R3	PI88788	Rps1c	7	N/A	N/A	6	8	9	N/A	7	2	N/A	INC	S40EN54
	R3	PI88788	Rps1c	6	N/A	N/A	6	6	9	N/A	N/A	2	4	INC	S40XF21S
	MR3	PI88788	S	7	N/A	N/A	7	8	9	N/A	N/A	2	6	INC	S4122STS
	R3, MR14	PI88788	S	6	N/A	N/A	6	7	9	N/A	6	2	6	INC	S41EN72

Think Before You Bin Run



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

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

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

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

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

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

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

High Value of New Branded Seed

Latest Technology

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

Customer Service

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

Reliable Germination and Quality

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

For a list of Bayer's trait patents go to cs.bayerpatents.bayer.com

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

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



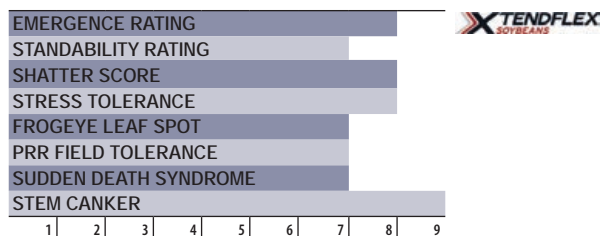
Bayer is a member of the Seed Innovation and Protection Alliance. Visit www.seedipalliance.com to learn more. SIRA® is a trademark of the Seed Innovation and Protection Alliance. Bayer is a member of Excellence Through Stewardship® (ETS). Bayer products are commercialized in accordance with ETS Product Launch Stewardship Guidance, and in compliance with Bayer's Policy for Commercialization of Biotechnology-Derived Plant Products in Commodity Crops. Commercialized products have been approved for import into key export markets with functioning regulatory systems. Any crop or material produced from this product can only be exported to, or used, processed or sold in countries where all necessary regulatory approvals have been granted. It is a violation of national and international law to move material containing biotech traits across boundaries into nations where import is not permitted. Growers should talk to their grain handler or product purchaser to confirm their buying position for this product. Excellence Through Stewardship® is a registered trademark of Excellence Through Stewardship. ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. NOT ALL FORMULATIONS OF dicamba, glyphosate or glufosinate are approved for in-crop use with products with XtendFlex® technology. ONLY USE FORMULATIONS THAT ARE SPECIFICALLY LABELED FOR SUCH USES AND APPROVED FOR SUCH USE IN THE STATE OF APPLICATION. Contact the U.S. EPA and your state pesticide regulatory agency with any questions about the approval status of dicamba herbicide products for in-crop use with Roundup Ready 2 Xtend® soybeans or products with XtendFlex® technology. Roundup Ready® Technology contains genes that confer tolerance to glyphosate. Roundup Ready 2® Technology contains genes that confer tolerance to glyphosate. Roundup Ready 2 Xtend® soybeans contain genes that confer tolerance to glyphosate and dicamba. Products with XtendFlex® Technology contain genes that confer tolerance to glyphosate, glufosinate and dicamba. Glyphosate will kill crops that are not tolerant to glyphosate. Dicamba will kill crops that are not tolerant to dicamba. Glufosinate will kill crops that are not tolerant to glufosinate. Contact your seed dealer or refer to the Bayer Technology Use Guide for recommended Roundup Ready® Xtend Crop System weed control programs. Bayer, Bayer Cross, Roundup Ready 2 Xtend®, Roundup Ready 2 Yield®, Roundup Ready® and XtendFlex® are registered trademarks of Bayer Group. LibertyLink® and the Water Droplet Design® is a trademark of BASF Corporation. ©2022 Bayer Group. All rights reserved.

Rev 01/2022

	PRODUCT			PRODUCTION						PLANT ATTRIBUTES						
	Dyna-Gro Brand	Technology	Maturity	Emergence	Row Width	Standability	Stress Tolerance	Iron Deficiency Chlorosis	Shatter Resistance	Plant Height	Plant Type	Canopy Type	Flower Color	Hilum Color	Pubescence	Pod Color
NEW	S41XF65	XTFlex	4.1	8	All	7	8	N/A	8	M/T	I	MB	P	BL	LT	BR
	S42XF93S	XTFlex/STS	4.2	8	All	6	8	5	8	M/T	I	MB	P	BL	LT	BR
	S43EN61	ENLIST	4.3	7	All	7	8	N/A	8	M/T	I	M	W	BR	LT	BR
NEW	S43XF85S	XTFlex/STS	4.3	8	All	7	8	5	8	M/T	I	M	W	BL	LT	BR
	S43XS70	RR2XT/STS	4.3	9	All	7	8	N/A	8	M/T	I	M	P	BL	LT	BR
NEW	S45EN25	ENLIST	4.5	7	All	7	7	N/A	8	M	I	MB	W	BL	LT	BR
	S45ES10	ENLIST/STS	4.5	7	All	7	8	6	8	M/T	I	MB	W	BR	T	BR
	S46ES91	ENLIST/STS	4.6	7	All	6	8	6	8	M/T	I	M	P	IB	G	BR
	S46XF31S	XTFlex/STS	4.6	8	All	6	8	6	8	T	I	MB	P	BL	LT	BR

4.1 RM S41XF65 Brand

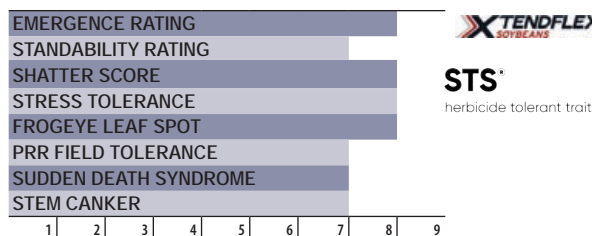
NEW
SOYBEANS



- Early group IV XtendFlex® introduction features excellent yield stability across environments
- Very good tolerance scores for sudden death syndrome and frogeye leaf spot
- Medium-tall plant height with very good lateral branching and good standability
- Rps1c gene and very good field tolerance for *Phytophthora* root rot

4.3 RM S43XF85S Brand

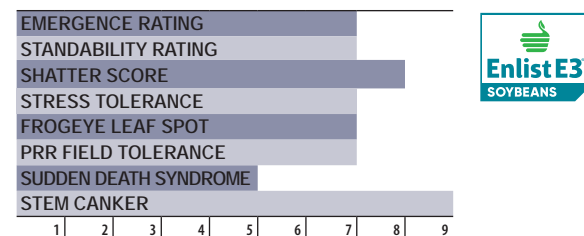
NEW
SOYBEANS



- XtendFlex® introduction that excels across high yield environments
- Strong frogeye leaf spot tolerance and very good field tolerance for *Phytophthora* root rot
- Medium-tall plant height with moderate lateral branching and good standability
- Very good tolerance for sudden death syndrome
- Broad adaptation for the lower Midwest with ability to move south into the Delta region

4.5 RM S45EN25 Brand

NEW
SOYBEANS



- Enlist E3® soybean introduction features excellent top end yield performance
- Rps1k gene with very good field tolerance for *Phytophthora* root rot
- Strong tolerance score for frogeye leaf spot and excluder for chloride salts
- Medium plant height with very good lateral branching and nice eye appeal
- Consider Saltro® seed treatment for added protection for sudden death syndrome

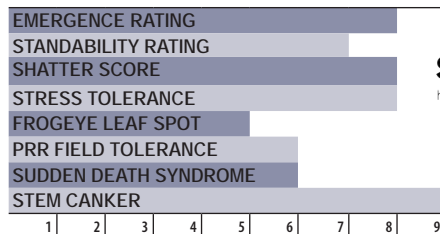
	DISEASE TOLERANCE														PRODUCT
	Soybean Cyst Nematode	SCN Source of Resistance	Phytophthora Resistance	Phytophthora Field Tolerance	Sclerotinia White Mold	Brown Stem Rot	Sudden Death Syndrome	Frogeye Leaf Spot	Stem Canker	Charcoal Rot	Cercospora Leaf Blight	Southern Root Knot Nematode	Metribuzin Tolerance	Chloride Sensitivity	Dyna-Gro Brand
	MR3	PI88788	Rps1c	7	N/A	N/A	7	7	9	7	6	2	5	INC	S41XF65
	MR3	PI88788	Rps1a	7	N/A	N/A	6	7	9	N/A	7	2	7	EXC	S42XF93S
	R3, MR14	PI88788	S	6	N/A	N/A	7	8	9	6	N/A	2	7	INC	S43EN61
	MR3, MR14	PI88788	S	7	N/A	N/A	7	8	7	6	N/A	4	6	INC	S43XF85S
	R3, MR14	PI88788	Rps1c	7	N/A	N/A	7	7	9	N/A	N/A	2	5	EXC	S43XS70
	R3	PI88788	Rps1k	7	N/A	N/A	5	7	9	N/A	6	2	7	EXC	S45EN25
	R3, MR14	PI88788	S	7	N/A	N/A	6	7	9	N/A	N/A	2	7	EXC	S45ES10
	R3, MR14	PI88788	S	7	N/A	N/A	7	6	9	6	N/A	2	7	EXC	S46ES91
	R3, MR14	PI88788	Rps1c	7	N/A	N/A	6	6	9	N/A	N/A	2	7	INC	S46XF31S



	PRODUCT			PRODUCTION						PLANT ATTRIBUTES						
	Dyna-Gro Brand	Technology	Maturity	Emergence	Row Width	Standability	Stress Tolerance	Iron Deficiency Chlorosis	Shatter Resistance	Plant Height	Plant Type	Canopy Type	Flower Color	Hilum Color	Pubescence	Pod Color
	S46XS60	RR2XT/STS	4.6	8	All	7	8	N/A	8	M/T	I	MB	P	BL	LT	TN
	S4751STS	CONV/STS	4.7	8	All	7	8	N/A	8	M/T	I	MB	P	BL	LT	TN
	S47XF23S	XTFlex/STS	4.7	8	All	7	8	6	8	M/T	I	MB	P	BL	LT	TN
	S48EN73	ENLIST	4.8	8	All	7	7	N/A	8	M/T	I	B	W	BF	G	BR
NEW	S48XF35	XTFlex	4.8	7	All	7	8	7	7	M/T	I	MB	P	BL	LT	BR
	S48XT40	RR2XT	4.8	8	All	7	8	6	9	T	I	MB	P	IB	G	BR
	S48XT56	RR2XT	4.8	9	All	8	8	N/A	8	M	I	M	P	BL	LT	TN
	S48XT90	RR2XT	4.8	8	All	6	9	N/A	8	M	I	B	P	BL	LT	TN
	S49EN12	ENLIST	4.9	9	All	8	8	N/A	8	M/T	I	M	P	BL	LT	BR



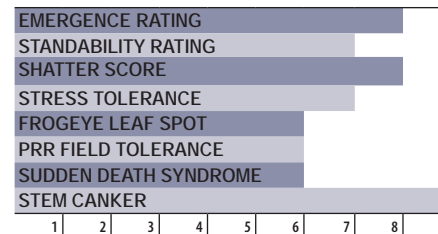
4.7 RM S47XF23S Brand



XTENDFLEX
SOYBEANS
STS
herbicide tolerant trait

- Exciting XtendFlex® release features the excluder gene for chloride salts and adaptability for all soil types
- Medium-tall plant height with good lateral branching and very good standability
- Rps1c gene for *Phytophthora* root rot and good tolerance for sudden death syndrome
- Resistance for stem canker and the STS® trait for sulfonylurea herbicide tolerance
- Fungicide programs may be warranted for frogeye leaf spot control

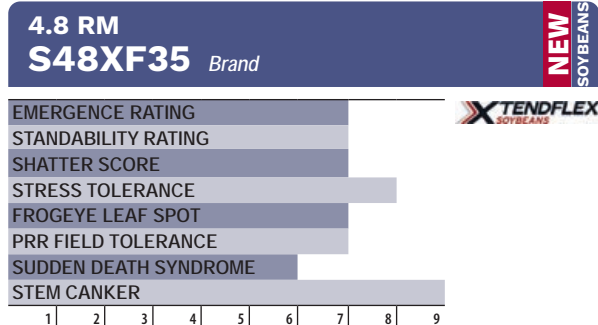
4.8 RM S48EN73 Brand



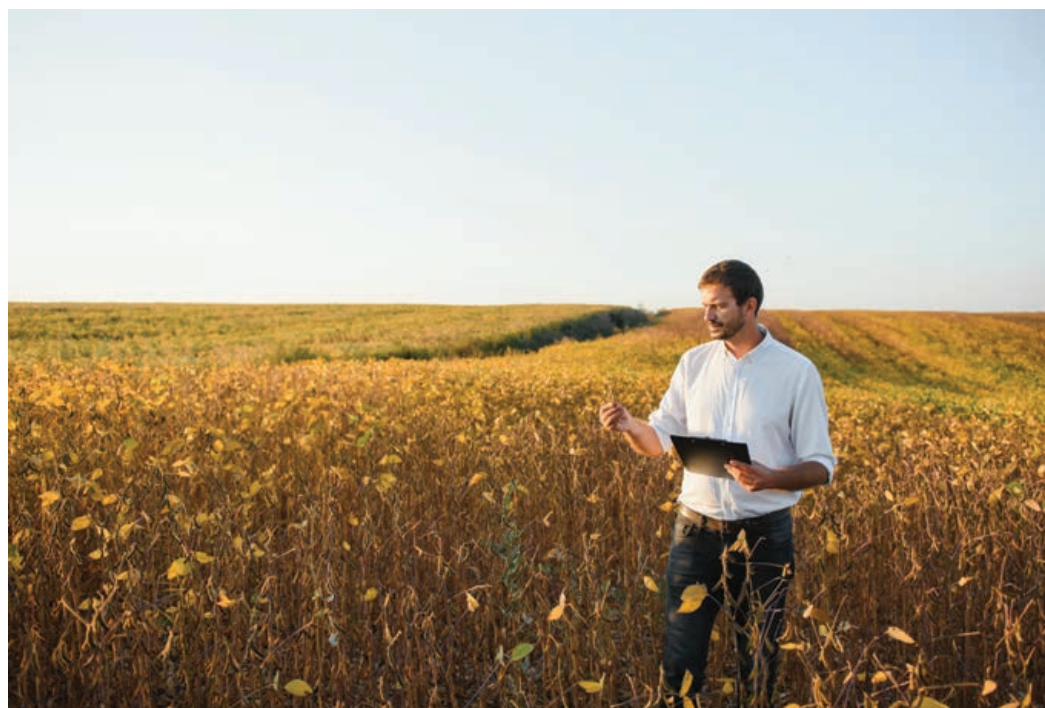
Enlist E3
SOYBEANS

- Late group IV Enlist E3® soybean release that has broad adaptability across environments and soil types
- Above average tolerance scores for frogeye leaf spot and sudden death syndrome
- Medium-tall plant height with excellent lateral branching and very good standability
- Resistance for stem canker and good tolerance for *Phytophthora* root rot
- Ideal choice for placement in wider row widths

	DISEASE TOLERANCE														PRODUCT
	Soybean Cyst Nematode	SCN Source of Resistance	Phytophthora Resistance	Phytophthora Field Tolerance	Sclerotinia White Mold	Brown Stem Rot	Sudden Death Syndrome	Frogeye Leaf Spot	Stem Canker	Charcoal Rot	Cercospora Leaf Blight	Southern Root Knot Nematode	Metribuzin Tolerance	Chloride Sensitivity	Dyna-Gro Brand
	R3, MR14	PI88788	Rps1c	7	N/A	N/A	8	7	9	N/A	N/A	2	3	EXC	S46XS60
	S	N/A	S	7	N/A	N/A	7	8	9	N/A	N/A	2	7	INC	S4751STS
	R3	PI88788	Rps1c	6	N/A	N/A	6	5	9	N/A	N/A	2	7	EXC	S47XF23S
	R3	PI88788	S	6	N/A	N/A	6	6	9	N/A	7	2	N/A	INC	S48EN73
	MR3	PI88788	Rps1c	7	N/A	N/A	6	7	9	7	N/A	3	7	INC	S48XF35
	R3, R14	PI88788	Rps1c	6	N/A	N/A	5	7	9	N/A	N/A	7	6	INC	S48XT40
	R3, MR14	PI88788	Rps1a	8	N/A	N/A	8	7	9	7	7	2	5	EXC	S48XT56
	S	N/A	S	6	N/A	N/A	6	8	9	N/A	7	4	5	INC	S48XT90
	R3, MR14	PI88788	S	6	N/A	N/A	6	6	9	N/A	N/A	2	4	INC	S49EN12



- XtendFlex® introduction features the proven genetic background of S52XT91
- Medium-tall plant height with very good lateral branching allows use in any row width
- Rps1c gene for *Phytophthora* root rot and very good tolerance for frogeye leaf spot
- Excellent choice for mixed to heavier soil types with ability to handle poorly drained soils
- Very well adapted across all environments, dryland or irrigated

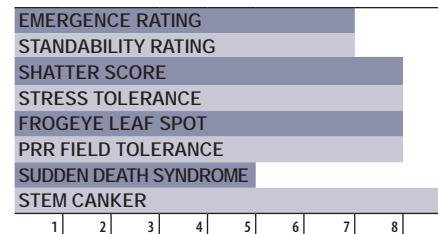


	PRODUCT			PRODUCTION						PLANT ATTRIBUTES						
	Dyna-Gro Brand	Technology	Maturity	Emergence	Row Width	Standability	Stress Tolerance	Iron Deficiency Chlorosis	Shatter Resistance	Plant Height	Plant Type	Canopy Type	Flower Color	Hilum Color	Pubescence	Pod Color
	S49XF43S	XTFlex/STS	4.9	7	All	7	8	4	8	M/T	I	MB	W	BF	G	TN
	S51EN62	ENLIST	5.1	8	All	7	7	N/A	8	M	I	MB	P	IB	G	TN
	S51XF84S	XTFlex/STS	5.1	8	All	7	8	N/A	8	M/T	I	MB	W	BL	LT	BR
	S52XT91	RR2XT	5.2	8	All	8	8	5	8	M/T	I	MB	P	BL	T	TN
NEW	S55XF95	XTFlex	5.5	8	All	6	7	N/A	7	M/S	D	MB	W	BL	T	TN
	S56XT99	RR2XT	5.6	8	All	6	9	N/A	8	T	D	MB	W	BL	T	TN
	S58XF24	XTFlex	5.8	8	All	7	8	N/A	8	M	D	MB	W	BL	T	TN
	S58XT30	RR2XT	5.8	8	All	7	8	N/A	8	M/T	D	M	W	BL	T	TN
	S62XT09	RR2XT	6.2	7	All	8	8	N/A	8	M	D	M	P	BL	T	TN



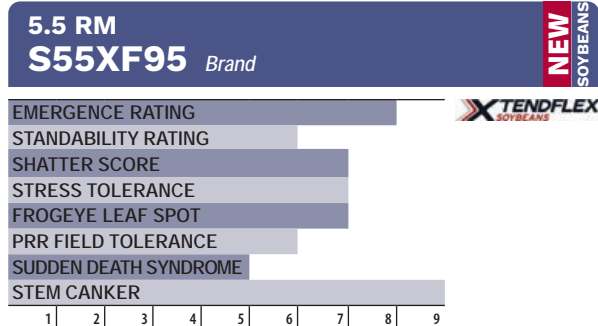
4.9 RM S49XF43S

Brand

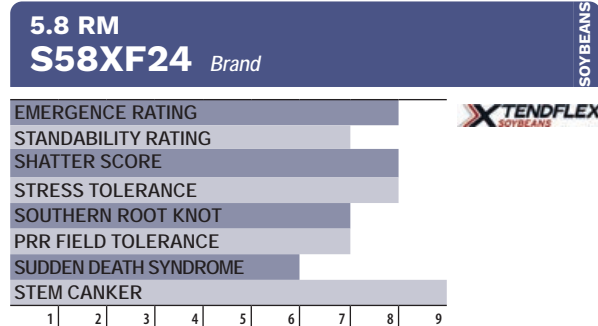
XTENDFLEX
SOYBEANSSTS[®]
herbicide tolerant trait

- XtendFlex[®] release that is the new yield standard for performance at late group IV maturity
- Excellent tolerance for frogeye leaf spot and resistance for stem canker
- Medium-tall plant height with good lateral branching and above average standability
- Rps1k gene with excellent field tolerance for *Phytophthora* root rot
- Consider Saltro[®] seed treatment for added protection for sudden death syndrome

	DISEASE TOLERANCE														PRODUCT
	Soybean Cyst Nematode	SCN Source of Resistance	Phytophthora Resistance	Phytophthora Field Tolerance	Sclerotinia White Mold	Brown Stem Rot	Sudden Death Syndrome	Frogeye Leaf Spot	Stem Canker	Charcoal Rot	Cercospora Leaf Blight	Southern Root Knot Nematode	Metribuzin Tolerance	Chloride Sensitivity	Dyna-Gro Brand
	MR3	PI88788	Rps1k	8	N/A	N/A	5	8	9	7	N/A	3	8	INC	S49XF43S
	S	N/A	Rps1k	7	N/A	N/A	7	7	9	N/A	6	2	7	EXC	S51EN62
	R3, MR14	PI88788	S	7	N/A	N/A	7	6	9	N/A	7	2	N/A	INC	S51XF84S
	MR3	PI88788	Rps1c	7	N/A	N/A	6	7	9	N/A	N/A	3	7	INC	S52XT91
	MR1, R3	Peking	S	6	N/A	N/A	5	7	9	N/A	N/A	6	7	EXC	S55XF95
	R1, R3	Peking	S	8	N/A	N/A	6	8	7	5	7	7	7	EXC	S56XT99
	R1, R3	Peking	S	7	N/A	N/A	6	7	9	N/A	N/A	7	6	EXC	S58XF24
	MR3	PI88788	S	6	N/A	N/A	6	N/A	9	6	N/A	7	7	INC	S58XT30
	S	N/A	Rps1a	8	N/A	N/A	N/A	7	9	6	6	7	7	EXC	S62XT09



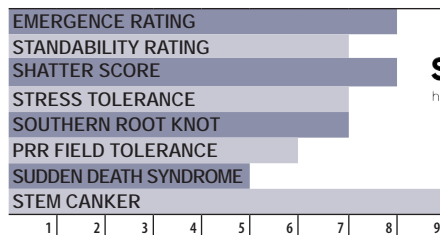
- Mid-group V determinate XtendFlex® introduction for the Delta and East Coast regions
- Intermediate resistance for southern root knot nematode and excluder for chloride salts
- Peking source of resistance for cyst nematode with very good frogeye leaf spot tolerance
- Medium-short plant height, moderate-bushy lateral branching and good standability
- Maintains plant height across soil types for consistent performance across environments



- XtendFlex® release features resistance for both southern and peanut root knot nematodes
- Peking source of resistance for cyst nematode and excluder for chloride salts
- Medium plant height with good lateral branching and very good standability
- Very good tolerance for frogeye leaf spot and resistance for stem canker
- Excellent adaptation for all soil types and environments throughout the East Coast region

	PRODUCT			PRODUCTION						PLANT ATTRIBUTES						
	Dyna-Gro Brand	Technology	Maturity	Emergence	Row Width	Standability	Stress Tolerance	Iron Deficiency Chlorosis	Shatter Resistance	Plant Height	Plant Type	Canopy Type	Flower Color	Hilum Color	Pubescence	Pod Color
	S63EN74	ENLIST	6.3	8	All	7	8	4	8	M/T	D	MB	W	BF	G	TN
	S67XF34S	XTFlex/STS	6.7	8	All	7	7	6	8	M/T	D	MB	P	BL	T	TN
	S71XF93	XTFlex	7.1	8	All	7	8	N/A	8	M/T	D	MB	P	BL	T	TN
	S72XT80	RR2XT	7.2	8	All	7	7	N/A	8	M	D	MB	W	BL	T	TN

6.7 RM

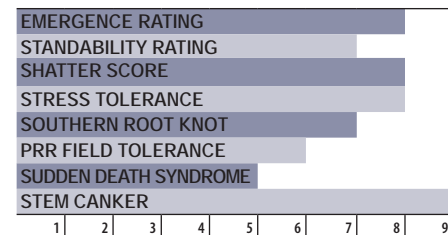
S67XF34S Brand

XTENDFLEX
SOYBEANS

STS
herbicide tolerant trait

- Late group VI XtendFlex® & STS® introduction features resistance for Southern root knot nematode
- Chloride salt excluder with resistance for stem canker
- Medium-tall plant height with very good lateral branching and good standability
- A planned fungicide program may be warranted for frogeye leaf spot control

7.1 RM

S71XF93 Brand

XTENDFLEX
SOYBEANS

- Early group VII XtendFlex® release features resistance for Southern root knot nematode
- Excluder for chloride salts and resistance for stem canker
- Medium-tall plant height with very good lateral branching and good standability scores
- Very good yield performance across all environments and soil types
- Planned fungicide program may be warranted for frogeye leaf spot control

	DISEASE TOLERANCE														PRODUCT
	Soybean Cyst Nematode	SCN Source of Resistance	Phytophthora Resistance	Phytophthora Field Tolerance	Sclerotinia White Mold	Brown Stem Rot	Sudden Death Syndrome	Frogeye Leaf Spot	Stem Canker	Charcoal Rot	Cercospora Leaf Blight	Southern Root Knot Nematode	Metribuzin Tolerance	Chloride Sensitivity	Dyna-Gro Brand
	MR3, MR14	PI88788	Rps1c	6	N/A	N/A	6	N/A	9	N/A	N/A	8	7	EXC	S63EN74
	S	N/A	S	6	N/A	N/A	5	4	9	N/A	N/A	7	7	EXC	S67XF34S
	S	N/A	S	6	N/A	N/A	5	5	9	N/A	N/A	7	4	EXC	S71XF93
	R1, R3	Peking	S	6	N/A	N/A	7	8	9	N/A	N/A	7	7	EXC	S72XT80





WHEAT

At home on any acre.

DYNAGRO
SEED

LEGEND

RATING SCALE:

- 9 = Excellent
- 7-8 = Very Good
- 5-6 = Good
- 3-4 = Fair
- 1-2 = Poor
- N/A = Information Not Available

RELATIVE MATURITY:

- VE = Very Early
- E = Early
- ME = Medium-Early
- M = Medium
- ML = Medium-Late
- L = Late

PLANT HEIGHT:

- S = Short
- MS = Medium-Short
- M = Medium
- MT = Medium-Tall
- T = Tall

*AREA OF ADAPTATION

- MWA = Midwest Area
- MSA = Mid-South Area
- SA = South Area
- EA = East Coast Area
- ECBA = Eastern Corn belt Area
- CPA = Central Plains Area
- WPA = Western Plains Area
- NPA = Northern Plains Area
- PNWA= Pacific Northwest Area

* Individual states may also be listed by abbreviation

Yellow Mosaic = Wheat Spindle Streak Mosaic Virus

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Wheat Seeding Rates

Required Lbs./Acre for Desired Seeds/Acre (in million seeds/acre)								
Seeds/ lb.	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
10,000	130.0	140.0	150.0	160.0	170.0	180.0	190.0	200.0
10,500	123.8	133.3	142.9	152.4	161.9	171.4	181.0	190.5
11,000	118.2	127.3	136.4	145.5	154.5	163.6	172.7	181.8
11,500	113.0	121.7	130.4	139.1	147.8	156.5	165.2	173.9
12,000	108.3	116.7	125.0	133.3	141.7	150.0	158.3	166.7
12,500	104.0	112.0	120.0	128.0	136.0	144.0	152.0	160.0
13,000	100.0	107.7	115.4	123.1	130.8	138.5	146.2	153.8
13,500	96.3	103.7	111.1	118.5	125.9	133.3	140.7	148.1
14,000	92.9	100.0	107.1	114.3	121.4	128.6	135.7	142.9
14,500	89.7	96.6	103.4	110.3	117.2	124.1	131.0	137.9
15,000	86.7	93.3	100.0	106.7	113.3	120.0	126.7	133.3
15,500	83.9	90.3	96.8	103.2	109.7	116.1	122.6	129.0
16,000	81.3	87.5	93.8	100.0	106.3	112.5	118.8	125.0
16,500	78.8	84.8	90.9	97.0	103.0	109.1	115.2	121.2
17,000	76.5	82.4	88.2	94.1	100.0	105.9	111.8	117.6
17,500	74.3	80.0	85.7	91.4	97.1	102.9	108.6	114.3

Dyna-Gro Seed recommends the use of a broad-spectrum cereal fungicide seed treatment to help wheat get off to a fast, healthy start by providing protection against early season seed and soil borne diseases. These treatments also provide growers with a significant increase in germination and vigor. Fungicides applied directly to seed provide excellent seed and seedling safety, giving your wheat crop a faster start and stronger finish enhancing yield performance and higher returns. Dyna-Gro Seed wheat is also available with a seed-applied systemic insecticide that provides early season control of certain insect pests. See your Dyna-Gro dealer for details.

Benefits of fungicide seed treatments:

- Control of early season seed and soilborne diseases
- Increased plant health and vigor
- Excellent worker and environmental safety
- Outstanding seed and seedling safety
- Faster start, enhanced yield

Dyna-Gro Seed Treatment Packages	Fungicides	Nutritional	Insecticide
Professional			
Premium			

Work with your Dyna-Gro Seed agronomist to determine and understand known crops stresses in your fields, as well as planning or expected or unpredictable planting and growing conditions.

Three-way fungicide package protection against:

- Seed decays
- Early season *Pythium*, stinking smut, Flag smut, Loose smut, Septoria, Rhizoctonia, common root rot, *Fusarium* foot rot.
- Early season suppression of powdery mildew and wheat leaf rust

- Micronutrients for early plant nutrition
- Helps extract and release soil nutrients into the available soil solution
- Promotes early plant vigor growth for improved yields
- Better root systems improve tolerance to drought and other stresses

Early season protection of seedlings against injury by:

- Aphids (including Bird cherry-oat, English grain, Greenbug, and Russian wheat aphid)
- Wireworms
- Hessian fly

WHEAT TABLE OF CONTENTS

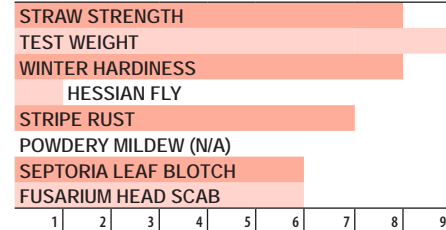
Soft Red Winter Wheat	82-87
Soft White Winter Wheat	88-89
Hard Red Spring Wheat	90-91
Hard Red Winter Wheat	92-93

	PRODUCT		GROWTH						DISEASE TOLERANCE		
	Dyna-Gro Brand	Relative Maturity	Plant Height	Straw Strength	Test Weight	Awn Type	Winter Hardiness	Hessian Fly	Leaf Rust	Stripe Rust	Powdery Mildew
SOFT RED WINTER WHEAT VARIETIES											
	9290	VE	M	7	7	Awne	E	2	8	8	8
	9120	E	M	8	9	Awne	E	1	7	7	N/A
	9151	ME	M	8	9	Awne	VG	3	6	8	7
	9231	ME	M	7	8	Awne	E	7	6	7	8
	9701	ME	MT	8	7	Awne	VG	9	8	8	7



Early 9120

Soft Red Winter



- Early maturity high test weight variety
- Attractive appearance with great yield potential
- Unique genetics for the Midwest and East
- Great straw strength and thick appearance

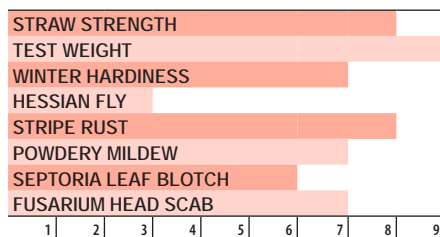
MANAGEMENT TIPS

- Consider a head scab suppressing fungicide at flowering
- Somewhat susceptible to barley yellow dwarf virus, manage accordingly

Septoria Leaf Blotch	Stagnospora Glume Blotch	Yellow Mosaic (WSSM)	Fusarium Head Scab	Soilborne Mosaic Virus	Barley Yellow Dwarf	Seeding Rate/Million Seeds Per Acre	Area of Adaptation	PRODUCT
7	9	8	7	7	5	1.5 to 2.0	MWA,MSA,SA,EA	9290
6	N/A	N/A	6	7	3	1.4 to 1.9	MWA, EA	9120
6	8	8	7	7	8	1.5 to 2.0	MWA, MSA, EA	9151
7	8	8	7	8	7	1.4 to 1.9	EA, SA, ECBA	9231
8	7	N/A	8	8	7	1.4 to 1.7	MWA,MSA,SA,EA	9701

Medium-Early 9151 *Soft Red Winter*

WHEAT



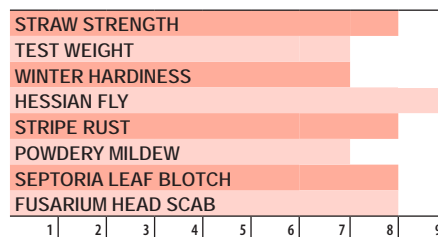
- Combines outstanding test weight and yield potential
- Fhb1 type II *Fusarium* head scab resistance marker
- Good stripe rust resistance, but scout and treat for other foliar diseases
- Yield history is the strongest in the lower Midwest

MANAGEMENT TIPS

- This variety is greatly improved with a foliar fungicide
- Avoid fields with known Hessian fly pressure

Medium-Early 9701 *Soft Red Winter*

WHEAT



- A popular variety adapted to a large geographic area that combines good stress tolerance and yield potential
- Fhb1 type II *Fusarium* head scab resistance marker
- Replaces 9171 with improved plant health and head scab ratings
- Attractive plant height for farmers that like medium-tall varieties
- Very good overall foliar health including stripe rust

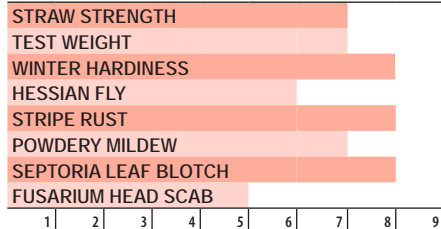
MANAGEMENT TIPS

- Excellent for areas with Hessian fly pressure
- Widely adapted to many soil types and management systems

PRODUCT		GROWTH						DISEASE TOLERANCE		
Dyna-Gro Brand	Relative Maturity	Plant Height	Straw Strength	Test Weight	Awn Type	Winter Hardiness	Hessian Fly	Leaf Rust	Stripe Rust	Powdery Mildew
SOFT RED WINTER WHEAT VARIETIES										
9811	ME	MT	7	7	Awned	E	6	8	8	7
Plantation	ME	M	7	8	Awned	VG	9	7	6	8
9172	M	M	8	7	Awned	E	2	8	8	7
9182	M	MT	6	8	Awnless	E	2	7	8	7
9862	M	M	8	9	Awnless	E	9	6	8	7

Medium-Early 9811 *Soft Red Winter*

WHEAT



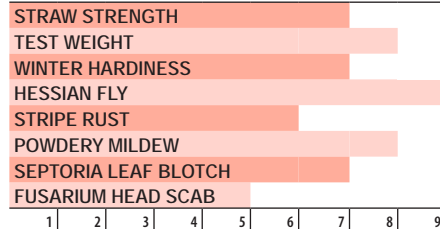
- Unique genetics well adapted to the East and Midsouth
- A high yield potential variety with stress tolerance
- Exceptional plant health, particularly stripe and leaf rust
- Resistant to several biotypes of Hessian fly; susceptible to biotype L
- Great southern adaptability, but not recommended for low vernalization areas

MANAGEMENT TIPS

- Plan a fungicide application at flowering to suppress head scab
- An aggressive tillering variety that may be more forgiving in less than ideal planting conditions

Medium-Early Plantation *Soft Red Winter*

WHEAT



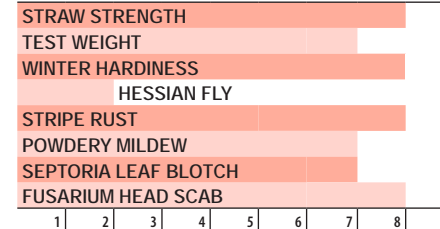
- A low vernalization variety for the South with newer genetics
- Exciting yield potential combined with good agronomics
- Great ratings for stripe rust and test weight
- Excellent Hessian fly resistance to most biotypes
- Good resistance to soilborne mosaic virus

MANAGEMENT TIPS

- Susceptible to *Fusarium* head blight, manage with flowering timed fungicides
- Scout and spray for threshold level foliar diseases prior to flowering

Medium 9172 *Soft Red Winter*

WHEAT



- This variety is sure to be a market leader
- Fhb1 type II *Fusarium* head scab resistance marker
- Well rounded agronomic package makes this variety hard to beat
- Large geographic adaptation in the eastern U.S.

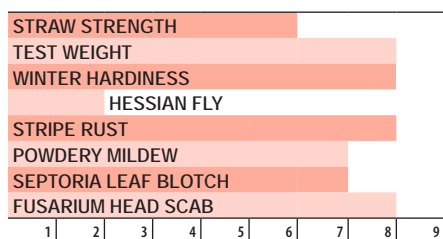
MANAGEMENT TIPS

- Widely adapted to most soil types
- Strong yield potential for higher managed situations

Septoria Leaf Blotch	Stagnospora Glume Blotch	Yellow Mosaic (WSSM)	Fusarium Head Scab	Soilborne Mosaic Virus	Barley Yellow Dwarf	Seeding Rate/Million Seeds Per Acre	Area of Adaptation	PRODUCT
8	8	N/A	5	N/A	7	1.4 to 1.6	EA, MSA	9811
7	6	N/A	5	7	8	1.5 to 2.0	SA	Plantation
7	7	7	8	8	8	1.5 to 2.0	MWA,MSA,SA,EA	9172
7	8	5	8	4	8	1.4 to 1.6	MWA	9182
7	8	N/A	8	7	7	1.5 to 2.0	MWA, MSA, EA	9862

Medium 9182 *Soft Red Winter*

WHEAT



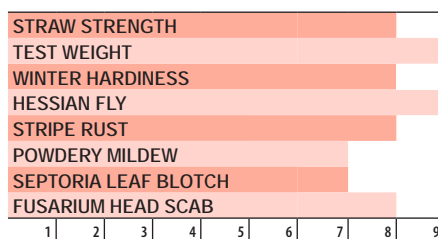
- An exciting awnless variety for the OH, MI, IN & WI markets
- Fhb1 type II *Fusarium* head scab resistance marker
- Combines great yields, head scab resistance, strong plant health, and high test weight
- Medium-tall plants are ideal for forage or straw production

MANAGEMENT TIPS

- Consider a PGR application to improve standability of this variety
- This variety can lodge under aggressive management or on highly productive soils, manage accordingly

Medium 9862 *Soft Red Winter*

WHEAT



- A widely adapted variety with great agronomics and yield history
- Fhb1 type II *Fusarium* head scab resistance marker
- Awnless head type for farmers that like 9182
- Exceptional test weight
- Ideal variety for farmers that like to bale straw

MANAGEMENT TIPS

- Excellent for areas with Hessian fly pressure
- Scout and spray for leaf rust and other foliar diseases



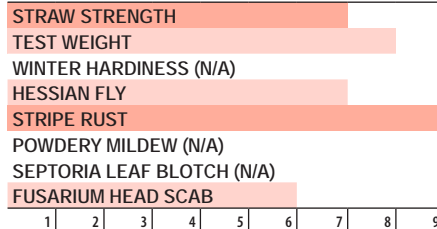
WHEAT

SOFT RED WINTER WHEAT

	PRODUCT		GROWTH						DISEASE TOLERANCE		
	Dyna-Gro Brand	Relative Maturity	Plant Height	Straw Strength	Test Weight	Awn Type	Winter Hardiness	Hessian Fly	Leaf Rust	Stripe Rust	Powdery Mildew
SOFT RED WINTER WHEAT VARIETIES											
	9332	M	M	7	8	Awned	N/A	7	N/A	9	N/A
NEW	9422	M	M	8	8	Awned	E	7	6	5	8
	9393	ML	M	8	8	Awned	E	8	7	8	8
	Shirley	L	MS	9	6	Awnlett	VG	3	8	3	9

Medium 9332 *Soft Red Winter*

WHEAT

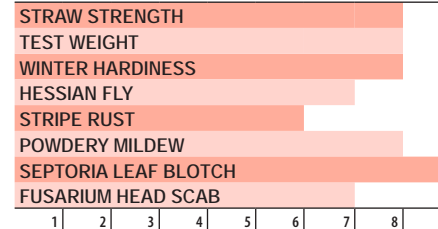


- Low vernalization variety for the South region
- Excellent agronomics with improved stripe rust resistance
- Exclusive to the Dyna-Gro Brand
- Excellent test weight
- Strong yield history in the Gulf states

MANAGEMENT TIPS

- Consider a head scab suppressing fungicide at flowering
- Scout and spray for threshold level foliar diseases prior to flowering

Medium 9422 *Soft Red Winter*

NEW
WHEAT

- A step change in yield performance
- Fhb1 type II *Fusarium* head scab resistance marker
- Extremely consistent performance across all geographies
- Widely adapted to most soil types
- Excellent standability

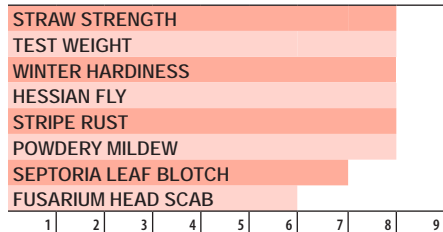
MANAGEMENT TIPS

- This variety is greatly improved with a foliar fungicide
- Scout and spray for threshold level foliar diseases prior to flowering

Septoria Leaf Blotch	Stagnospora Glume Blotch	Yellow Mosaic (WSSM)	Fusarium Head Scab	Soilborne Mosaic Virus	Barley Yellow Dwarf	Seeding Rate/Million Seeds Per Acre	Area of Adaptation	PRODUCT
N/A	N/A	N/A	6	N/A	N/A	1.5 to 2.0	SA	9332
7	9	N/A	7	8	7	1.5 to 2.0	MWA, MSA, SA, EA	9422
7	7	8	6	7	8	1.5 to 2.0	EA, SA, ECBA	9393
7	7	7	4	4	7	1.5 to 1.8	EA	Shirley

Medium-Late 9393 *Soft Red Winter*

WHEAT



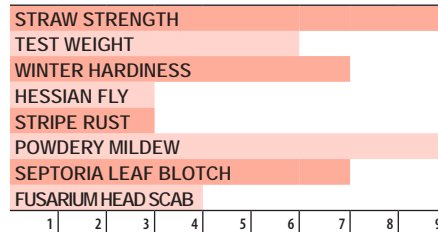
- High yielding variety with outstanding yield potential and broad adaptation
- Excellent agronomic package able to handle most environments
- Excellent performance in wet and heavy soils
- Excellent for areas with Hessian fly pressure
- Above average plant health and average head scab

MANAGEMENT TIPS

- Consider a head scab suppressing fungicide at flowering
- Average on vernalization, avoid planting in the Deep South

Late Shirley *Soft Red Winter*

WHEAT



- Fuller season variety with outstanding yield potential for the East Coast
- Medium-short plant with outstanding straw strength
- Strong ratings for *Septoria* leaf and glume blotch
- Avoid areas where stripe rust occurs with frequency
- High level of resistance to leaf rust, stem rust and powdery mildew

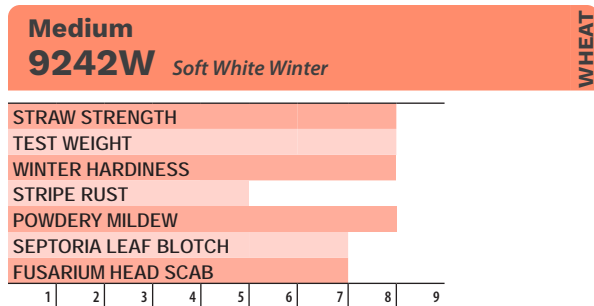
MANAGEMENT TIPS

- Outstanding choice for high fertility and management
- Plant after Hessian fly-free date and manage for *Fusarium* head blight

	PRODUCT		GROWTH						DISEASE TOLERANCE		
	Dyna-Gro Brand	Relative Maturity	Plant Height	Straw Strength	Test Weight	Awn Type	Winter Hardiness	Hessian Fly	Leaf Rust	Stripe Rust	Powdery Mildew
SOFT WHITE WINTER WHEAT VARIETIES											
	9242W	M	MT	8	8	Awnless	8	N/A	7	5	8
	9313W	ML	MT	8	7	Awned	8	N/A	N/A	N/A	N/A



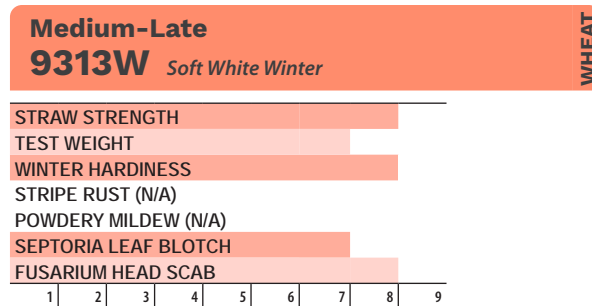
Septoria Leaf Blotch	Stagnospora Glume Blotch	Yellow Mosaic (WSSM)	Fusarium Head Scab	Soilborne Mosaic Virus	Barley Yellow Dwarf	Seeding Rate/Million Seeds Per Acre	Area of Adaptation	PRODUCT
7	7	N/A	7	N/A	7	1.6 to 1.8	MI,OH,NY	9242W
7	N/A	N/A	8	7	N/A	1.6 to 1.8	MI,OH,NY	9313W



- Soft white winter variety with exceptional yield potential
- Medium maturity with fantastic eye appeal
- Medium-tall plant height with excellent straw strength
- Very good scores for powdery mildew and *Stagnospora* glume blotch
- High test weight grain with very good milling and baking quality

MANAGEMENT TIPS

- Excellent response to high levels of fertility and management
- Fungicides suggested for stripe rust control



- High yielding soft white variety with outstanding yield potential
- The new standard for FHB resistance in white wheat
- Fhb1 type II *Fusarium* head scab resistance marker
- An aggressively tillering variety with stiff straw and excellent standability
- Excellent late season drought tolerance

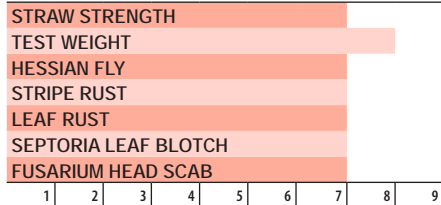
MANAGEMENT TIPS

- Excellent response to high levels of fertility and management
- Widely adapted to most soil types

	PRODUCT		GROWTH					DISEASE TOLERANCE		
	Dyna-Gro Brand	Relative Maturity	Plant Height	Straw Strength	Test Weight	Protein	Awn Type	Leaf Rust	Stripe Rust	Septoria Leaf Blotch
HARD RED SPRING WHEAT VARIETIES										
	Commander	ME	M	7	8	7	Awned	7	7	7
	Ambush	M	M	7	8	7	Awned	7	8	7
	Ballistic	M	MT	6	6	7	Awned	7	7	7
	Rocker	M	M	8	9	9	Awned	N/A	N/A	N/A
NEW	Holmes	M	M	8	9	9	Awned	7	8	N/A
	Presser CLP	ML	M	7	7	5	Awned	N/A	N/A	N/A

Medium-Early Commander *Hard Red Spring*

WHEAT



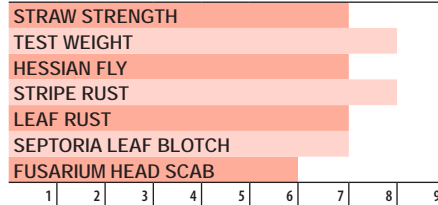
- Hard red spring wheat that compliments our popular Ambush variety
- CSO variety, farmers are required to sign a No Saved Seed agreement
- Widely adapted to many areas of MT, ND, MN, and SD
- A well balanced variety, with slightly more yield and slightly less protein than Ambush
- Improved resistance to Fusarium head scab compared to Ambush

MANAGEMENT TIPS

- Scout and apply fungicides as needed
- Avoid fields with a known history of severe bacterial leaf streak

Medium Ambush *Hard Red Spring*

WHEAT



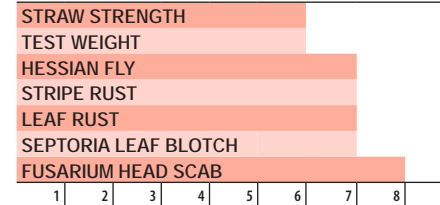
- Unique hard red spring wheat that is widely adapted to a large geography and most soil types
- Above average protein combined with good yields
- Great straw strength for soils with lodging concerns
- Strong agronomics against stripe rust and bacterial leaf streak

MANAGEMENT TIPS

- Apply fungicides to suppress *Fusarium* head scab in situations with elevated infection risk
- Seeding above 1.6 million seeds per acre is not recommended for acres not considered high management/high yield

Medium Ballistic *Hard Red Spring*

WHEAT



- Hard red spring wheat with explosive yield potential
- Best adapted to the productive soils of eastern North Dakota and western Minnesota
- Excellent on *Fusarium* head scab; the best in Dyna-Gro spring wheat
- A competitive option against other older varieties in the high yield/average protein market

MANAGEMENT TIPS

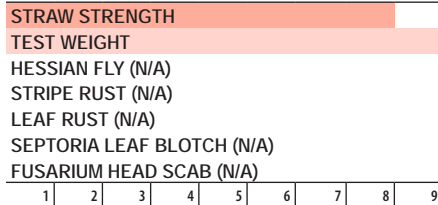
- Plant at 1.2 million seeds per acre; higher seeding rates can cause lodging in this variety
- Consider foliar nutrient applications that could improve protein and/or test weight

							PRODUCT
Stagnospora Glume Blotch	Fusarium Head Scab	Tan Spot	Stem Rust	Bacterial Leaf Streak	Seeding Rate/Million Seeds Per Acre	Area of Adaptation	Dyna-Gro Brand
N/A	7	N/A	N/A	4	1.3 to 1.6	North Plains	Commander
7	6	8	8	6	1.3 to 1.6	North Plains	Ambush
N/A	8	7	N/A	7	1.1 to 1.3	ND & MN	Ballistic
N/A	N/A	N/A	N/A	N/A	N/A	MT	Rocker
N/A	N/A	N/A	N/A	7	N/A	ID & MT	Holmes
N/A	N/A	N/A	N/A	N/A	N/A	MT & ND	Presser CLP

Medium Rocker

Hard Red Spring

WHEAT



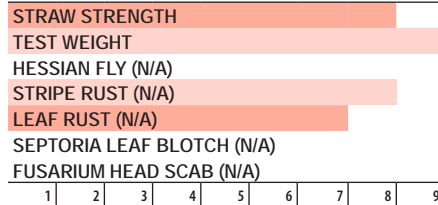
- #1 dryland yield in Montana Nutrien Ag Solutions wheat trials two years running (2022 and 2023)
- High protein and excellent milling and baking qualities
- Excellent sawfly tolerance
- Best combination of yield, protein content, and sawfly tolerance available
- CSO variety: farmers are required to sign a No Saved Seed agreement

MANAGEMENT TIPS

- Works well under irrigation if sawfly pressure is known
- Best choice for growers for sawfly, yield and quality combination in Montana

Medium Holmes

Hard Red Spring

NEW
WHEAT

- High quality high yielding HRS
- High protein and excellent milling and baking qualities
- Great irrigated variety for Idaho and Montana
- CSO variety, farmers are required to sign a No Saved Seed agreement

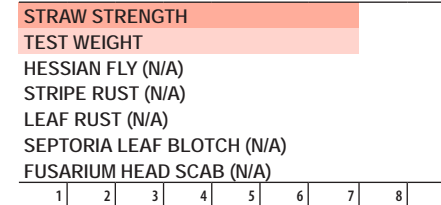
MANAGEMENT TIPS

- Do not seed too heavy under irrigation

Medium-Late Presser CLP

Hard Red Spring

WHEAT



- Excellent yield potential
- Best adapted to dryland acres of Montana and western North Dakota
- Good sawfly tolerance
- Agronomic characteristics similar to Vida with addition of Clearfield® Technology

MANAGEMENT TIPS

- Recommended for dryland, subject to lodging under irrigation

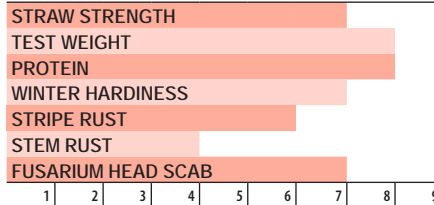
	PRODUCT		GROWTH							DISEASE TOLERANCE		
	Dyna-Gro Brand	Relative Maturity	Plant Height	Straw Strength	Test Weight	Protein	Awn Type	Winter Hardiness	Hessian Fly	Leaf Rust	Powdery Mildew	Septoria Leaf Blotch
HARD RED WINTER WHEAT VARIETIES												
	Buckhorn AX	E	MT	7	8	8	Awned	VG	1	6	N/A	N/A
NEW	7322	M	MT	7	7	N/A	Awnless	N/A	N/A	9	6	N/A
	Milestone	M	M	7	8	8	Awned	E	N/A	N/A	N/A	N/A
	StandClear CLP	M	M	7	8	8	Awned	E	N/A	N/A	N/A	N/A
	DG Ramsay	M	M	7	8	8	Awned	E	N/A	N/A	N/A	N/A

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Early Buckhorn AX *Hard Red Winter*

WHEAT



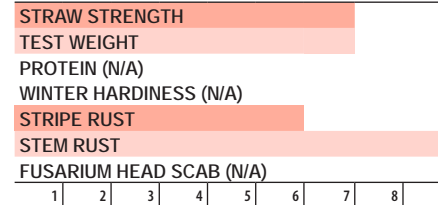
- An exciting new variety with the Axigen (CoAXium® platform) trait
- Adapted to north central Oklahoma and south central Kansas
- Excellent multi-year yield history in zone
- Great protein and test weight in an earlier variety

MANAGEMENT TIPS

- Average standability, avoid overseeding or using excessive fertility programs
- Scout and monitor for excessive diseases that could require a fungicide treatment

Medium 7322 *Hard Red Winter*

NEW WHEAT



- NEW! Awnless dual purpose wheat
- Great option for wheat growers & cattle grazers alike
- Exceptional forage yields & forage quality
- Strong performance in acidic soils
- Excellent choice in any production system

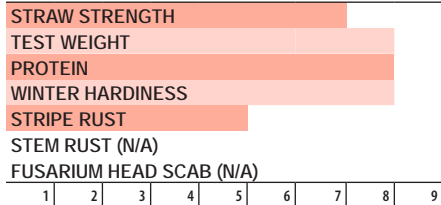
MANAGEMENT TIPS

- Susceptible to Hessian fly
- Scout and monitor for excessive diseases that could require a fungicide treatment

Stagnospora Glume Blotch	Yellow Mosaic (WSSM)	Fusarium Head Scab	Soilborne Mosaic Virus	Barley Yellow Dwarf	Tan Spot	Stem Rust	Seeding Rate/Million Seeds Per Acre	Area of Adaptation	PRODUCT
N/A	N/A	7	N/A	N/A	N/A	4	700k to 1.1	SC KS & NC OK	Buckhorn AX
N/A	N/A	N/A	N/A	9	N/A	N/A	600k to 1.3	S and WP	7322
N/A	N/A	N/A	N/A	N/A	N/A	N/A	800k to 1.1	MT,ID,WA	Milestone
N/A	N/A	N/A	N/A	N/A	N/A	N/A	800k to 1.1	MT	StandClear CLP
N/A	N/A	N/A	N/A	N/A	N/A	N/A	800k to 1.1	MT,ID,WA	DG Ramsay

Medium Milestone *Hard Red Winter*

WHEAT



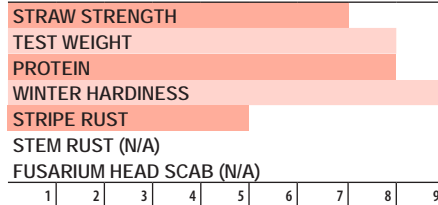
- Top yield potential
- Stripe rust tolerance
- Broadly adapted to irrigated and dryland
- Excellent protein and test weight
- Large seed size for improved vigor

MANAGEMENT TIPS

- Watch seed size and seeding rate
- CSO variety: farmers are required to sign a No Saved Seed agreement

Medium StandClear CLP *Hard Red Winter*

WHEAT



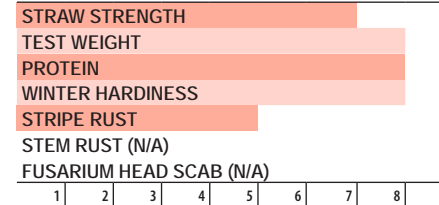
- Best combination of yield, sawfly tolerance, and Clearfield® technology
- Excellent yield potential
- Very good protein content
- Solid stem for sawfly tolerance
- Very good disease package

MANAGEMENT TIPS

- For areas with sawfly problems
- CSO variety, farmers are required to sign a No Saved Seed agreement

Medium DG Ramsay *Hard Red Winter*

WHEAT



- Excellent yield potential
- Excellent standability
- Great choice for dryland
- Excellent test weight
- Good protein content

MANAGEMENT TIPS

- Fits dryland best but can be used in irrigation, stands well
- CSO variety: farmers are required to sign a No Saved Seed agreement



COTTON

At home on any acre.



DYNAGRO
SEED

LEGEND

HERBICIDE TOLERANT TRAITS:

H = Halo Salt Tolerant Series™

B3TXF = Bollgard® 3 Thryvon™ Xtendflex®
Technology

B3XF = Bollgard® 3 XtendFlex® Cotton

B2XF = Bollgard II® XtendFlex® Cotton

Red = New

Ratings are based on the average performance of a variety grown over a wide range of climate and soil types within its adapted maturity under normal growing conditions. Extreme conditions may adversely affect performance. Consult your local Dyna-Gro representative for specific recommendations in your area.

No dicamba may be used in-crop with seed with Roundup Ready® Xtend Technology, unless and until approved or specifically permitted. No dicamba formulations have been registered for such in-crop use at the time this material was published. Please follow <https://www.roundupreadyxtend.com/pages/xtendimax-updates.aspx> for status updates.

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ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. It is a violation of federal and state law to use any pesticide product other than in accordance with its labeling. NOT ALL formulations of dicamba, glyphosate or glufosinate are approved for in-crop use with products with XtendFlex® Technology. ONLY USE FORMULATIONS THAT ARE SPECIFICALLY LABELED FOR SUCH USES AND APPROVED FOR SUCH USE IN THE STATE OF APPLICATION. Contact the U.S. EPA and your state pesticide regulatory agency with any questions about the approval status of dicamba herbicide products for in-crop use with Roundup Ready 2 Xtend® soybeans or products with XtendFlex® Technology. No dicamba may be used in-crop with seed with Roundup Ready® Xtend Technology, unless and until approved or specifically permitted. No dicamba formulations have been registered for such in-crop use at the time this material was published.

Please follow <https://www.roundupreadyxtend.com/pages/xtendimax-updates.aspx> for status updates.

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

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.

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



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



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	PRODUCT				GROWTH		
	Brand	Variety	Technology	Maturity	Seedling Vigor	Plant Height	Drought Tolerance
HALO™ SALT TOLERANT + BOLLGARD® 3 XTENDFLEX							
	Dyna-Gro	H929 B3XF	Halo / B3XF	Early	8	Compact	6
	Dyna-Gro	H357 B3XF	Halo / B3XF	Medium	8	Med-Tall	8
	Dyna-Gro	H959 B3XF	Halo / B3XF	Medium	8	Med-Tall	8



Dyna-Gro Seed is proud to announce the launch of its brand-new HALO Salt Tolerant Series™ cotton.

Why HALO? Halo is short for halophyte – a plant that grows in water or soil with high salinity. Salt tolerance includes:

- the ability of the plant to exclude the uptake of salts from a saline soil-water solution
- the ability of the plant to extrude or compartmentalize salts from a saline soil-water solution
- the ability of the plant to uptake water in an unfavorable saline soil environment
- the ability to produce a favorable yield under high saline water and/or soil conditions

Typically, salt tolerance is seen in the first 7-21 days with vigorous germination followed by good seedling growth rate in soils that are high in salt content. Cotton is most sensitive to salt environments from germination through the first six weeks. HALO cotton achieves more uniform stands with vigorous root and seedling growth as well as better canopy cover versus salt sensitive lines.

This series will be utilized in a large geographic area: New Mexico, West Texas, Oklahoma, North Carolina, Louisiana and other areas where salty environments have impacted plant growth. According to Shawn Carter, Dyna-Gro Seed's South Plains Division Agronomist, "this is just the beginning of the HALO technology usage and impact on the industry. It's another example of Dyna-Gro Seed solving problems for its growers." Carter mentioned that yield increases of 25% were seen during the testing of the HALO Salt Tolerant series in salt environments.

Early H929 Halo™/B3XF Brand

- Bollgard® 3 XtendFlex® + HALO
- Enhanced with Halo Salt Tolerance Series™
- Adapted to West Texas and other areas with saline soil types
- Semi-smooth leaf type with Bollgard® 3 XtendFlex® trait
- Bacterial blight resistant and good *Verticillium* tolerance
- Good salt and storm tolerance
- Very good seedling vigor - compact to medium plant height



Storm Tolerance	% Gin Turnout	Micronaire Averages	Staple	HARVEST		PRODUCT
				Strength	% Uniformity	Variety
8	38 - 42%	4.3	1.14	30.25	82.5	H929 B3XF
9	38 - 42%	4.2	1.22	32.90	83.0	H357 B3XF
8	38 - 42%	4.3	1.18	31.00	82.0	H959 B3XF



Medium H357 Halo™/B3XF Brand

COTTON

- Bollgard® 3 XtendFlex® + HALO
- Enhanced with Halo Salt Tolerance Series™
- Adapted to West Texas and other areas with saline soil types
- Medium-tall, smooth leaf type with Bollgard® 3 XtendFlex® trait
- Bacterial blight resistant and good *Verticillium* tolerance
- Good salt and storm tolerance
- Excellent seedling vigor
- Aggressive growth under irrigation; requires PGR management



Medium H959 Halo™/B3XF Brand

COTTON

- Bollgard® 3 XtendFlex® + HALO
- Enhanced with Halo Salt Tolerance Series™
- Adapted to the southern Cotton Belt and Carolinas
- Medium-tall plant height with smooth leaf characteristics
- Bacterial blight resistant and good *Verticillium* tolerance
- Good salt and storm tolerance
- Good seedling vigor, medium-tall plant height
- Bollgard® 3 XtendFlex® trait



Halo 929 B3XF on the right next to a non-Halo on the left

PRODUCT					GROWTH		
Brand	Variety	Technology	Maturity	Seedling Vigor	Plant Height	Drought Tolerance	
BOLLGARD 3® XTENDFLEX® COTTON							
Dyna-Gro	3215 B3XF	B3XF	Early	8	Med-Tall	8	
Dyna-Gro	3387 B3XF	B3XF	Early-Med	7	Medium	7	
Dyna-Gro	3402 B3XF	B3XF	Early-Med	8	Medium	7	
Dyna-Gro	3422 B3XF	B3XF	Early-Med	8	Medium	6	
Dyna-Gro	3425 B3XF	B3XF	Early-Med	8	Med-Tall	6	
Dyna-Gro	3456 B3XF	B3XF	Early-Med	7	Med-Tall	6	

Early 3215 B3XF Brand

COTTON

- Enhanced with the Bollgard® 3 XtendFlex® trait
- Best adapted to West Texas and Oklahoma
- Medium plant height with smooth leaf characteristics
- Above average fiber quality and stress tolerance
- Excellent seedling vigor and excellent storm tolerance
- Excellent *Verticillium* wilt tolerance; bacterial blight resistant
- Irrigated or dryland



Early-Medium 3387 B3XF Brand

COTTON

- Enhanced with the Bollgard® 3 XtendFlex® trait
- Best adapted to West Texas and Oklahoma
- Medium plant height with smooth leaf characteristics
- Good fiber quality and emergence
- Excellent *Verticillium* wilt tolerance and bacterial blight resistance
- Irrigated or dryland
- RKN tolerant



Early-Medium 3402 B3XF Brand

COTTON

- Enhanced with the Bollgard® 3 XtendFlex® trait
- Broadly adaptable for Texas and Southeast
- Medium plant height with smooth leaf characteristics
- Excellent fiber quality
- Excellent storm tolerance
- Above average *Verticillium* wilt tolerance and Race 4 *Fusarium* tolerant
- RKN and Reniform Nematode tolerance



				HARVEST		PRODUCT
Storm Tolerance	% Gin Turnout	Micronaire Averages	Staple	Strength	% Uniformity	Variety
8	36 - 40%	4.41	1.2	32.06	83.1	3215 B3XF
8	35 - 39%	4.35	1.16	28.00	81.50	3387 B3XF
8	42 - 43%	4.25	1.21	30.00	81.30	3402 B3XF
9	42 - 43%	4.15	1.17	30.10	82.30	3422 B3XF
6	41 - 44%	4.28	1.21	32.01	84.80	3425 B3XF
7	43 - 44%	4.04	1.15	27.00	81.90	3456 B3XF

Early-Medium 3422 Brand

COTTON

- Enhanced with the Bollgard® 3 XtendFlex® trait
- Broadly adaptable for Texas, Upper Midsouth and Carolinas
- Medium-tall plant height with smooth leaf characteristics
- **Above average fiber quality**
- Very good seedling vigor
- Excellent *Verticillium* wilt tolerance; bacterial blight susceptible
- Recommended for both dryland and irrigated acres



Early-Medium 3425 B3XF Brand

COTTON

- Enhanced with the Bollgard® 3 XtendFlex® trait
- Adapted to Texas, Delta and Southeast
- Medium plant height with smooth leaf characteristics
- **Good fiber quality and emergence**
- Broadly adapted across the Cotton Belt
- Manage aggressively with plant growth regulators starting at 8-10 nodes
- Will maximize weed control with tolerance to three major herbicides: dicamba, glyphosate and glufosinate



Early-Medium 3456 B3XF Brand

COTTON

- Enhanced with the Bollgard® 3 XtendFlex® trait
- Adapted to West Texas and Oklahoma
- Medium plant height with smooth leaf characteristics
- Excellent seedling vigor
- Excellent *Verticillium* wilt tolerance and bacterial blight resistance
- Excellent storm tolerance



PRODUCT					GROWTH		
Brand	Variety	Technology	Maturity	Seedling Vigor	Plant Height	Drought Tolerance	
BOLLGARD 3® XTENDFLEX® COTTON							
Dyna-Gro	3469 B3XF	B3XF	Early-Med	7	Medium	7	
Dyna-Gro	3470 B3XF	B3XF	Early-Med	7	Med-Tall	8	
Dyna-Gro	3503 B3XF	B3XF	Medium	7	Med-Tall	6	
Dyna-Gro	3535 B3XF	B3XF	Medium	7	Medium	7	
Dyna-Gro	3555 B3XF	B3XF	Medium	8	Medium	6	
Dyna-Gro	3570 B3XF	B3XF	Medium	8	Med-Tall	9	

Early-Medium 3469 B3XF Brand

COTTON

- Enhanced with the Bollgard® 3 XtendFlex® trait
- Broadly adaptable across southern U.S. Cotton Belt
- Medium plant height with smooth leaf characteristics
- Comes from the Dyna-Gro 2570 family
- Recommended for dryland or irrigated acres
- Above average quality and very good seedling vigor



Early-Medium 3470 B3XF Brand

COTTON

- Enhanced with the Bollgard® 3 XtendFlex® trait
- Adapted to the Midsouth and parts of Coastal Texas
- Medium-tall plant height with smooth leaf characteristics
- Excellent fiber quality with very good seedling vigor
- Moderate *Verticillium* wilt tolerance; bacterial blight susceptible



Medium 3503 B3XF Brand

COTTON

- Enhanced with the Bollgard® 3 XtendFlex® trait
- Broadly adapted across the Rolling Plains and Coastal Texas, Midsouth, and Southeast
- Medium-tall plant height with smooth leaf characteristics
- Good fiber quality and emergence
- Recommended for most irrigated acres
- Very good storm tolerance
- Bacterial blight resistant and average *Verticillium* wilt tolerance



				HARVEST		PRODUCT
Storm Tolerance	% Gin Turnout	Micronaire Averages	Staple	Strength	% Uniformity	Variety
8	34 - 38%	4.40	1.16	30.50	81.50	3469 B3XF
6	43 - 44%	4.62	1.16	30.22	83.37	3470 B3XF
6	41 - 44%	4.01	1.23	32.49	84.90	3503 B3XF
7	41 - 44%	3.90	1.17	28.40	82.20	3535 B3XF
8	41 - 42%	4.00	1.24	32.15	84.00	3555 B3XF
6	39 - 44%	4.50	1.16	30.19	82.50	3570 B3XF

Medium 3535 B3XF Brand

COTTON



- Enhanced with the Bollgard® 3 XtendFlex® trait
- Adapted to Texas, Midsouth, and Southeast
- Medium plant height with smooth leaf characteristics
- Excellent fiber quality and very good seedling vigor
- Recommended for most irrigated acres
- Very good storm tolerance
- Excellent Reniform Nematode tolerance, bacterial blight resistant, and average *Verticillium* wilt tolerance

Medium 3555 B3XF Brand

COTTON



- Enhanced with the Bollgard® 3 XtendFlex® trait
- Adapted to Upper Texas Gulf Coast, Midsouth, and Southeast
- Medium plant height with smooth leaf characteristics
- Good fiber quality and emergence
- High yield potential with good storm tolerance
- Bacterial blight resistant

Medium 3570 B3XF Brand

COTTON



- Enhanced with the Bollgard® 3 XtendFlex® trait
- Adapted to Texas, Delta and Southeast
- Medium-tall plant height with semi-smooth leaf characteristics
- Good fiber quality and emergence
- Recommended for dryland or irrigated acres
- Manage aggressively with plant growth regulators starting at 8-10 nodes
- Will maximize weed control with tolerance to three major herbicides: dicamba, glyphosate and glufosinate

	PRODUCT				GROWTH		
	Brand	Variety	Technology	Maturity	Seedling Vigor	Plant Height	Drought Tolerance
BOLLGARD® 3 XTENDFLEX® COTTON							
	Dyna-Gro	3615 B3XF	B3XF	Med-Full	8	Med-Tall	8
	Dyna-Gro	3644 B3XF	B3XF	Med-Full	7	Med-Tall	6
	Dyna-Gro	3799 B3XF	B3XF	Full	7	Tall	7
BOLLGARD II® XTENDFLEX® COTTON							
	Dyna-Gro	3385 B2XF	B2XF	Early	7	Medium	7

Medium-Full 3615 B3XF

Brand

COTTON

- Enhanced with the Bollgard® 3 XtendFlex® trait
- Adopted for Delta and Texas
- Medium-tall plant height with semi-smooth leaf characteristics
- Excellent fiber quality and seedling vigor
- Excellent storm tolerance
- Excellent *Verticillium* wilt tolerance and bacterial blight resistance



Medium-Full 3644 B3XF

Brand

COTTON

- Enhanced with the Bollgard® 3 XtendFlex® trait
- Broadly adaptable across southern U.S. Cotton Belt
- Medium-tall plant height with semi-smooth leaf characteristics
- B3XF version of Dyna-Gro 2570 B2RF
- Recommended for dryland or irrigated acres
- Above average quality and very good seedling vigor



Full 3799 B3XF

Brand

COTTON

- Enhanced with the Bollgard® 3 XtendFlex® trait
- Adapted to the Southern High Plains and Rolling Plains
- Tall plant height with smooth leaf characteristics
- Extra Long Staple (ELS) upland variety
- Placement on irrigated acres only: requires strict management
- Excellent storm tolerance
- Root-knot nematode tolerant and above average *Verticillium* wilt tolerance; bacterial blight susceptible





				HARVEST		PRODUCT
Storm Tolerance	% Gin Turnout	Micronaire Averages	Staple	Strength	% Uniformity	Variety
8	41 - 42%	4.47	1.17	31.51	82.20	3615 B3XF
5	40 - 42%	4.40	1.17	30.50	85.20	3644 B3XF
7	41 - 43%	4.60	1.17	32.20	82.98	3799 B3XF
7	39 - 42%	4.3 - 4.7	1.11 - 1.15	29 - 32	82 - 85%	3385 B2XF

COTTON

Early
3385 B2XF Brand

COTTON

- Bollgard II® XtendFlex® trait, semi-smooth leaf type
- Modified bushy plant type
- Medium plant height with compact boll orientation
- Very responsive to irrigation and intense management
- Texas, Southwest, Midsouth, I-20 North, Upper Southeast, and East Coast adaptation
- Will maximize weed control with tolerance to three major herbicides: dicamba, glyphosate and glufosinate



BOLLGARD® 3 & BOLLGARD II® XTENDFLEX® COTTON

	PRODUCT				GROWTH		
	Brand	Variety	Technology	Maturity	Seedling Vigor	Plant Height	Drought Tolerance
BOLLGARD® 3 THRYVON™ WITH XTENDFLEX® COTTON							
	Dyna-Gro	4497 B3TXF	B3TXF	Early-Med	8	Med-Tall	6
	Dyna-Gro	4484 B3TXF	B3TXF	Medium	8	Med-Tall	6
NEW	Dyna-Gro	4434 B3TXF	B3TXF	Medium	7	Med-Tall	7
	Dyna-Gro	4530 B3TXF	B3TXF	Med-Full	8	Med-Tall	6
NEW	Dyna-Gro	4529 B3TXF	B3TXF	Med-Full	9	Med-Tall	8

Early-Medium 4497 B3TXF Brand

COTTON

- Protected by new Bollgard® 3 ThryvOn® with XtendFlex® Technology
- Adapted to West Texas and Central Plains
- Medium-tall plant type with smooth leaf characteristics
- Above average fiber quality and very good seedling vigor
- Excellent *Verticillium* wilt tolerance; Bacterial blight susceptible
- Recommended for dryland and irrigated acres



Medium 4484 B3TXF Brand

COTTON

- Protected by new Bollgard® 3 ThryvOn® with XtendFlex® Technology
- Broadly adapted across upper and lower Southeast, upper Midsouth, and Coastal Texas
- Medium-tall plant height with smooth leaf characteristics
- Very good seedling vigor and above average fiber quality
- Excellent *Verticillium* wilt tolerance; Bacterial blight susceptible
- Recommended for dryland and irrigated acres



Medium 4434 B3TXF Brand

COTTON

- Protected by new Bollgard® 3 ThryvOn® with XtendFlex® Technology
- Broad performance across the entire Cotton Belt
- Medium-tall plant height with semi-smooth leaf characteristics
- Very good seedling vigor and above average fiber quality
- Bacterial blight resistant and very good *Verticillium* wilt tolerance
- Good storm tolerance



Storm Tolerance	% Gin Turnout	Micronaire Averages	Staple	HARVEST		PRODUCT
				Strength	% Uniformity	Variety
6	41 - 44%	4.59	1.17	31.19	84.32	4497 B3TXF
6	41 - 44%	4.55	1.17	31.15	83.92	4484 B3TXF
7	39 - 42%	4.44	1.18	30.73	81.99	4434 B3TXF
6	41 - 44%	3.76	1.23	32.57	84.53	4530 B3TXF
8	38 - 42%	4.32	1.2	31.72	82.26	4529 B3TXF

Medium-Full 4530 B3TXF Brand

COTTON

- Protected by new Bollgard® 3 ThryvOn® with XtendFlex® Technology
- Adapted to upper and lower Midsouth
- Medium-tall plant height that will require PGR management
- Above average fiber quality and good seedling vigor
- Susceptible to Bacterial blight and *Verticillium* wilt
- Average storm tolerance



Medium-Full 4529 B3TXF Brand

NEW
COTTON

- Protected by new Bollgard® 3 ThryvOn® with XtendFlex® Technology
- Demonstrated strong performance in Texas
- Medium-tall plant height with a smooth leaf
- Excellent seedling vigor and fiber quality with very good stress tolerance
- Bacterial blight resistant and excellent *Verticillium* wilt tolerance
- Very good storm tolerance





SORGHUM

At home on any acre.

DYNAGRO
SEED

LEGEND

DYNA-GRO SORGHUM NUMBER SYSTEM:

1st Digit – M = Grain Sorghum,
F = Forage Sorghum

2nd & 3rd Digit – Days to Mid-bloom
Example: M60 = 60 days to mid-bloom

4th Digit – Type Sorghum: G=Grain Sorghum,
F=Forage Sorghum Name=Sorghum
Sudangrass

5th Digit – Grain Color: B=Bronze, R=Red,
C=Cream, W=White

6th & 7th Digit – Random for hybrid designation

Example:

M67GB87 = Grain Sorghum; 67 Days to Bloom
Maturity, Bronze Grain

F74FS23 BMR = Forage Sorghum; BMR; Medium
Maturity

RATING SCALE:

9 = Excellent
7-8 = Very Good
5-6 = Good
3-4 = Fair
1-2 = Poor
Sc = Susceptible

DEFINITIONS

BMR - Brown Mid-Rib

VDT - In Vitro True Digestibility

RFV - Relative Feed Value

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Dyna-Gro Seed is focused on bringing value to customers' farms by offering the best yielding most consistent products available. The brand has made an effort to identify and test sorghum hybrids that show resistance to Sorghum Aphids.

Dyna-Gro Seed has determined a number of sorghum hybrids that have significant levels of resistance to Sorghum Aphids (SCA). The use of tolerant hybrids is encouraged because this serves to synergize the impact of natural enemies and reduce the need for spraying. With slower aphid population growth, there is more time for predators to arrive in sufficient numbers and consume all the aphids before the aphids can reach densities sufficient to escape biological control. It also means that management control decisions such as insecticide applications are not quite so urgent as aphids approach threshold numbers.

Dyna-Gro Seed has more hybrids on the Sorghum Aphid resistance list than any other brand. Additionally, the brand's offerings of SCA tolerant hybrids cover a wide range of maturities. The seed development team at Dyna-Gro is committed to providing the best options with the most current research available to help retailers meet the demands of customers.

The Dyna-Gro hybrids on the Resistance to Sorghum Aphid list are:

M54GR24	Very Early
M59GB94	Early
M60GB31	Medium-Early
M62GC23	Medium-Early
M62GB36	Medium-Early
M63GB78	Medium-Early
M66GR32	Medium
M67GB87	Medium
M70GR37	Medium-Full
M71GR91	Medium-Full
M72GB71	Medium-Full

SORGHUM TABLE OF CONTENTS

Pearl Millet.107

Hybrid Sorghum Sudangrass 108-109

Hybrid Forage Sorghum 110-111

Grain Sorghum 112-117



Summer Annual
PearlMil *Hybrid Pearl Millet*

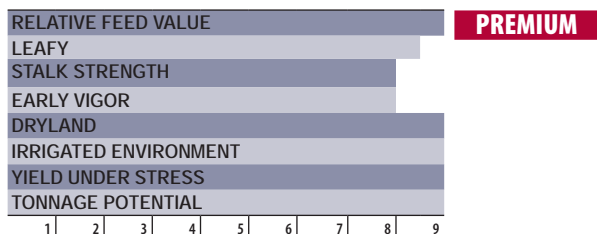


- Excellent sorghum aphid tolerance
- Large canopy provides rapid ground shading to help restrict moisture losses from evaporation
- Produces on marginal soils—both sandy or acidic, tolerance of iron deficiency and high pH soil
- Excellent seedling vigor with high tillering capability
- High leaf to stem ratio with high protein content
- Small diameter, smooth stems and smooth leaves
- Dwarf or “bushy” plant stature

Photo Period Sensitive

DANNY BOY II BMR *Sorghum Sudangrass*

SORGHUM



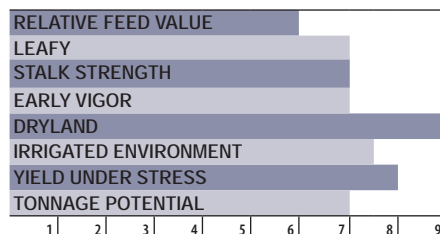
- Shows a 7% increase in yield over original Danny Boy BMR
- Tall broad-leaved type BMR with digestibility comparable to corn silage
- Can be used for silage, hay, or grazing*
- Daylight/Photo period sensitive for extended harvest window
- Premium BMR sorghum sudangrass with impressive leaf vigor and high digestibility
- Seeding rates: dryland 12-30 lbs./acre: irrigated 25-60 lbs./acre
- **Do not feed to horses**
- *Do not use for grazing in extreme southeast U.S.

Dyna-Gro Sorghum Sudangrasses characteristically reach a height of six to eight feet, have smaller stalks than forage sorghum, strong tillering, and produce more tonnage than standard sudangrass. They have excellent re-growth potential compared to forage sorghums, but less than sudangrass. Well-suited for multiple harvest systems. Sorghum-sudangrass hybrids are primarily used for grazing and hay production; they can be used for silage. If used for silage, the crop should be allowed to wilt before chopping to ensure proper moisture content.

Medium-Early

DYNAGRAZE II *Sorghum Sudangrass*

SORGHUM

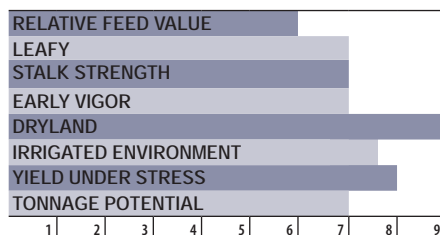


- Improved conventional Dynagraze sorghum x sudangrass hybrid
- Consistent high yields with excellent regrowth and recovery
- Juicy, sweet fine stems for improved feed quality
- Should be harvested prior to boot stage for maximum quality
- Cut or graze approximately 3-4 inches above soil
- Very good foliar disease resistance
- **Do not feed to horses**

Medium-Early

First-Graze *Sorghum Sudangrass*

SORGHUM

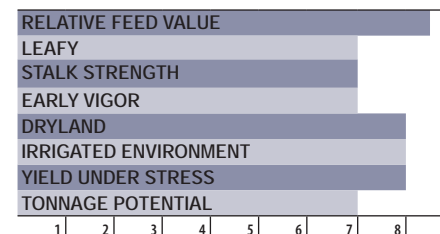


- Ideal for tough dryland or limited irrigation production
- Versatile crop usage for hay, silage, and grazing
- Excellent early season vigor and fast regrowth after cutting
- Thin stemmed plant type
- Very good dry matter yield potential
- Has exceptional drought stress tolerance for tough acres
- **Do not feed to horses**
- **No Return Seed**

Medium-Early

DYNAGRAZE II BMR *Sorghum Sudangrass*

SORGHUM

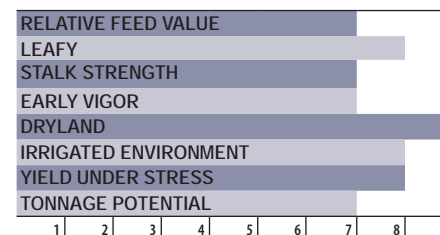


- Improved BMR version of Dynagraze II sorghum x sudangrass hybrid
- Consistent high yields with excellent regrowth and recovery
- Juicy, sweet fine stems for improved BMR feed quality
- Should be harvested prior to boot stage for maximum quality
- Cut or graze approximately 3-4 inches above soil
- Very good foliar disease resistance
- **Do not feed to horses**

Medium-Early

Super Sweet 10 *Sorghum Sudangrass*

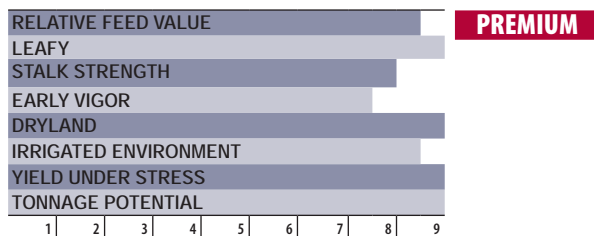
SORGHUM



- Shorter, leafier and finer stemmed than Dynagraze for higher feed values
- Extremely sweet feed which cattle love
- Superfine stems and a prolific tillering habit
- Excellent drought and heat stress tolerance for dryland or irrigated
- Best for haylage, intensive grazing, can be used for chopping
- Highly palatable at all stages of growth, harvest before boot for best feed value
- Suitable for use in dairy, beef, and sheep farm systems
- **Do not feed to horses**

Medium-Full FULLGRAZE II** Sorghum Sudangrass

SORGHUM

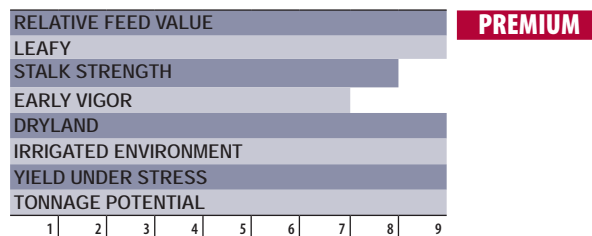


PREMIUM

- Late maturing hybrid that allows for a wider harvest window of higher quality forage
- Higher yields and digestibility than conventional sorghum sudan hybrids
- Has excellent tillering, recovery, and regrowth after cutting
- Wide range of adaptation because of its very high quality forage and drought resistance
- High green leaf retention, produces high RFV forage
- Can be planted anywhere—harvest whenever you want and as often as you want!
- Has shown limited tolerance and ability to recover from sorghum aphid pressure
- **Do not feed to horses**

Medium-Full FULLGRAZE II** BMR Sorghum Sudangrass

SORGHUM



PREMIUM

- New design, late maturing sorghum sudan hybrid that allows for a wider window harvest of higher quality BMR forage
- Higher yields and digestibility than conventional sorghum sudan hybrids
- Has excellent tillering, recovery, and regrowth after cutting
- Consistently # 1 in cattle preference grazing trials
- Wide range of adaptation because of its very high quality forage and superior drought tolerance
- High green leaf retention, produces high RFV forage
- Can be planted anywhere—harvest whenever you want and as often as you want!
- Very high yield and excellent regrowth
- **Do not feed to horses**

***Fullgraze II is adapted throughout the US. The late maturity (LM) Fullgraze concept is 20-30 days later than conventional sorghum/sudan hybrids. This late maturity allows for higher tonnage and a wider window for harvest of high quality leaves before boot stage is reached. Fullgraze has greater IVTD value and a higher crude protein. IVTD of Fullgraze was 20+% more than a commercial check in trials. Fullgraze has a wide range of adaptation because of its incredible drought resistance and yield of quality forage.*



Hybrid Forage Sorghum - For Chopping and Silage

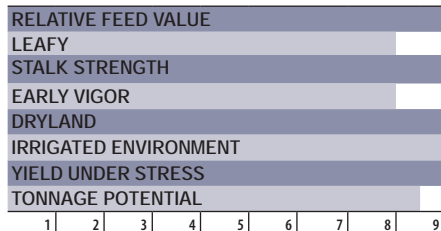
Forage sorghums are generally taller, produce more leaves and mature later than typical grain sorghum

FORAGE SORGHUM

HYBRID FORAGE SORGHUM

Early F71FS72 BMR *Forage Sorghum*

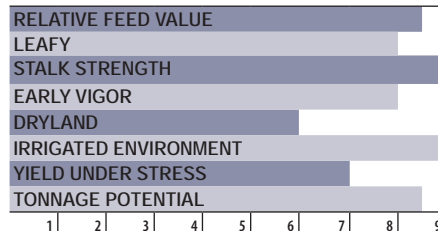
Days to Soft Dough: 80-92



- Short season BMR forage, great yields on dryland or irrigated
- Short statured with very good standability and dry stalks for quick dry down
- Early season that can yield with fuller season forage hybrids in most situations
- Due to early maturity, provides options for high quality forage where fuller season won't mature
- This hybrids performs well under dryland conditions with excellent heat and stress tolerance
- BMR-6 provides excellent nutrition and feed values
- Averages 13-15,000 seeds/lb.
- Tested as FX18152 BMR

Medium-Early F72FS05 *Forage Sorghum*

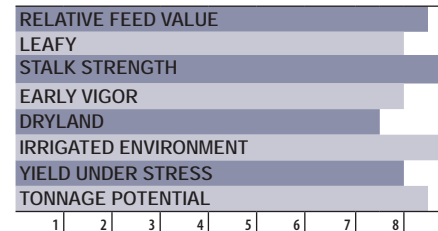
Days to Soft Dough: 82-95



- Short stature leafy plant with very large grain heads produces top tonnage
- First forage sorghum with excellent sorghum aphid tolerance
- Medium-early maturity with very good heat and drought tolerance
- Excellent standability and root lodging ratings
- Conventional style plant producing very good grain yields
- Large leaves with very good stalk quality

Medium Super Sile 30 *Forage Sorghum*

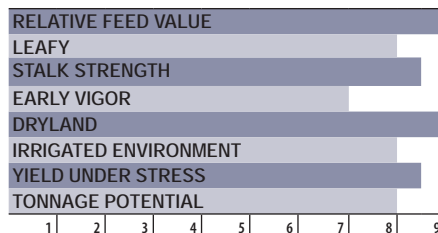
Days to Soft Dough: 86-105



- Large grain head and very leafy produce sweet nutritional silage
- Large grain head and very leafy, sweet nutritional silage
- Good palatability and excellent feed values
- High tonnage and very high sugar content silage
- Moderate tolerance to downy mildew
- In previous years, Super Sile 30 has qualified as dual purpose, insurance approved

Medium F74FS23 BMR *Forage Sorghum*

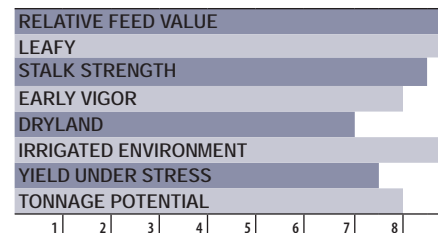
Days to Soft Dough: 86-100



- BMR forage sorghum for stress acres, silage or hay, average 7-8 foot tall
- Replacement for F75FS28 BMR with improved tonnage
- Excellent standability and stress tolerance
- High feed value and digestibility forage
- Average 14,000 seeds/lb., plant 5-7 lbs. dryland and 10-15 lbs. irrigated
- 78-83 days to flower

Medium F74FS72 BMR *Forage Sorghum*

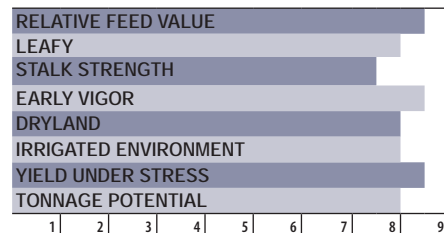
Days to Soft Dough: 88-100



- F74FS72 BMR is a new hybrid that was bred for its BMR traits and top tonnage
- Brachytic hybrid, 6-7 foot tall, excellent standability
- BMR-6 provides exceptional nutritional feed value
- Better yield potential and total digestible nutrients than conventional hybrids
- More leaves than taller conventional varieties
- Best all around BMR forage for digestibility, standability, and yield
- Medium season hybrid great for dairies and feed yards on irrigated or high yield dryland

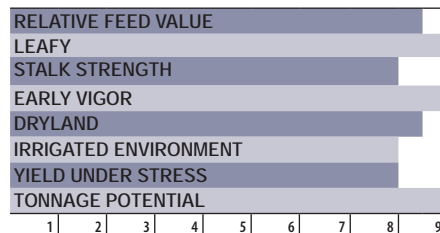
hybrids. Forage sorghums can produce very high biomass yields, but have limited re-growth potential. Forage sorghum is an excellent choice for single-cut silage and standing green-chop production uses.

Medium Days to Soft Dough: 85-100
F75FS13 Forage Sorghum



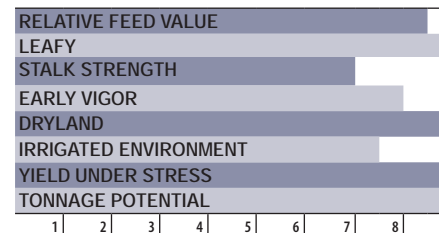
- Best positioned and used for hay, grazing, or silage
- Sweet stalked, mid-maturing hybrid, high yield performance
- 8' to 10' in height and has very good standability
- Tolerates drought stress very well
- Should be cut in the soft dough stage for highest tonnage and best quality
- Good choice for double crop with excellent early growth
- Quality medium maturity mane may or milage

Medium-Full Days to Soft Dough: 92-105
Sweet Ton MS Forage Sorghum



- Male sterile sorgo X sorgo forage sorghum
- Ideal for grazing, hay, haylage, bundle feed, and fall pasture
- Extra sweetness with high sugar content in stalks and leaves
- Works well in most soils under irrigation or dryland conditions
- Fast emergence and growth with an early maturity
- Normal 7-10 feet plant height with very good standability
- Very fine leafy stems which produce excellent feed values

Medium-Full Days to Soft Dough: 95-110
Super Sile 20 Forage Sorghum



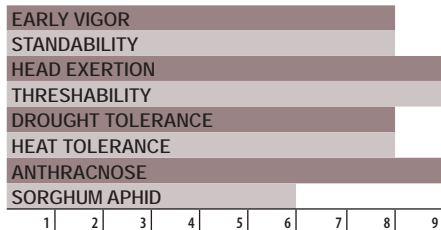
- Sorgo-forage, outstanding silage hybrid with 9-12 foot normal plant height
- Very leafy, very tall plants with excellent stress tolerance
- Nutritious, tall stalks produce top tonnage
- 17-19,000 seeds/lb., keep population on lower side for field type
- Qualifies as dual purpose, insurance approved



	PRODUCT				PLANT ATTRIBUTES						
	Dyna-Gro Brand	Relative Maturity	Days RM	Days to Mid-bloom	Late Planting/ Cool Weather Response	Grain Color	Head Type	Plant Height	Early Vigor	Standability	Head Exertion
	M54GR24	Very Early	88	54	Matures	Red	Semi-open	M	8	8	9
	M57GB35DT	Early	94	57	Normal	Bronze	Semi-open	S	7	7	8
	M59GB57	Early	95	59	Normal	Bronze	Semi-open	M/S	6	8	7
	M59GB94	Med-Early	96	59	Normal	Bronze	Semi-open	M	8	8	7
	M60GB20DT	Med-Early	97	60	Normal	Bronze	Semi-open	M	8	8	7
	M60GB88	Med-Early	96	60	Matures	Bronze	Semi-open	M	9	8	8

Very Early M54GR24

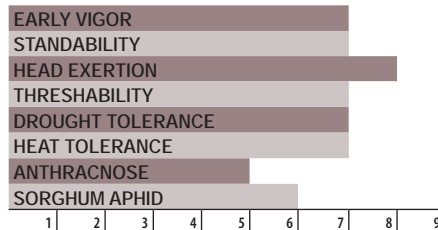
Days to Mid-bloom: 54
Red Grain Sorghum



- Very early, red colored grain sorghum with excellent short season yield
- Excellent anthracnose resistance and disease resistance
- Semi-open head with excellent head exertion and drought tolerance
- Good sorghum aphid tolerance and very good standability
- Adapted very well to northwest Kansas, eastern Colorado, High Plains Texas, and northern areas

Early M57GB35DT

Days to Mid-bloom: 57
Bronze Grain Sorghum

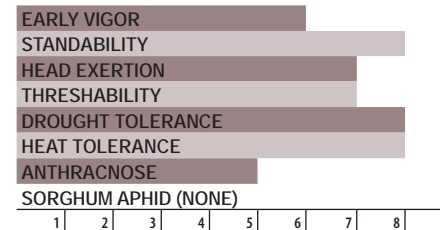


- Early season, bronze grain, with high yield potential for maturity
- Well suited for dryland acres and where high soil pH could be a problem
- Double crop candidate in areas with longer growing seasons
- Excellent early season vigor
- DT trait tolerates FirstAct™ herbicide for over the top grassy weed control



Early M59GB57

Days to Mid-bloom: 59
Bronze Grain Sorghum



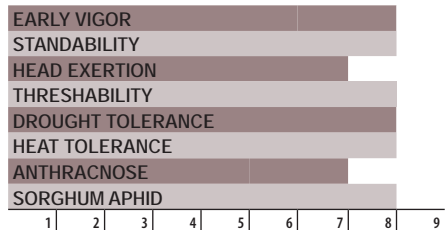
- Attractive early hybrid that produces bronze grain in a semi-open head
- Highest top end yielding 59 day to mid-bloom hybrid, adapted to high altitude areas
- Well-adapted to both dryland and irrigated production practices
- Excellent yield for maturity with high test weight grain
- Very strong pre-flower stress tolerance and fall standability
- First choice milo for dryland acres in eastern Colorado and northwest Kansas

			DISEASE/INSECT TOLERANCE						PRODUCT
Threshability	Drought Tolerance	Heat Tolerance	Anthracnose	Head Smut	Downy Mildew 3 & 6	Sorghum Aphid	Green Bug Resistance	Approximate Seeds/lb. (thousands)	Dyna-Gro Brand
9	8	8	9	6	5	6	Sc	15-17	M54GR24
7	7	7	5	5	4	6	N/A	15-16	M57GB35DT
7	8	8	5	6	3	Sc	Sc	14-16	M59GB57
8	8	8	7	7	3	8	C, E	12-14	M59GB94
7	7	8	7	4	4	6	N/A	12	M60GB20DT
8	9	8	7	7	5	5	Sc	13-15	M60GB88

* Sorghum Aphid Tolerance; SCA tolerance is only one part of a good IPM program to control SCA. Regular scouting and awareness of SCA economic thresholds along with timely application of approved insecticides once thresholds are reached is critical to control SCA and prevent significant yield losses.

Medium-Early M59GB94

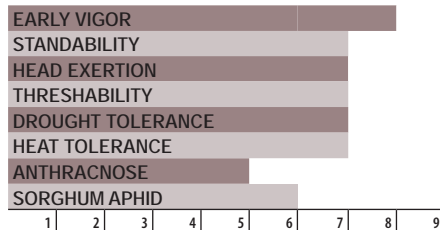
Days to Mid-bloom: 59
Bronze Grain Sorghum



- Medium-early bronze colored hybrid with excellent sorghum aphid tolerance
- Adapted eastern Colorado, throughout Nebraska, Kansas and High Plains Texas
- Strong yield response for short season hybrid in both low input and irrigated environments
- Particularly good performance for a medium-early in Texas
- Medium plant height with good head exertion
- Leading shorter season hybrid with consistent, wide adaptability

Medium-Early M60GB20DT

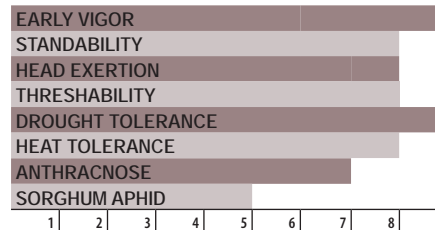
Days to Mid-bloom: 60
Bronze Grain Sorghum



- Medium-early bronze grain with great yield potential
- Tolerant to FirstAct™ herbicide for over the top grass weed control
- Excellent standability
- Excellent seedling vigor and emergence
- Susceptible to growth regulator herbicides

Medium-Early M60GB88

Days to Mid-bloom: 60
Bronze Grain Sorghum



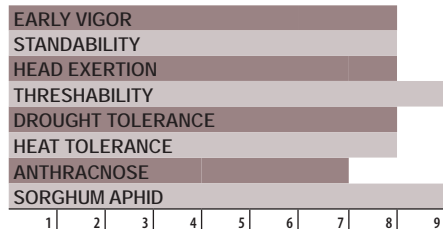
- Good drought tolerance and standability, excellent for dryland production
- Strong emergence in cool soils
- Good resistance to downy mildew
- Good choice for areas where inputs are limited
- Adapted to most soil types and tillage systems
- Limited tolerance to sugarcane aphids

	PRODUCT				PLANT ATTRIBUTES						
	Dyna-Gro Brand	Relative Maturity	Days RM	Days to Mid-bloom	Late Planting/ Cool Weather Response	Grain Color	Head Type	Plant Height	Early Vigor	Standability	Head Exertion
	M60GB31	Med-Early	98	60	Delays	Bronze	Semi-open	M	8	8	8
	742C	Med-Early	101	62	Normal	Cream	Semi-open	M	7	7	8
	M63GB78	Med-Early	102	63	Normal	Bronze	Open	M	8	8	7
NEW	M62GC23	Med-Early	101	62	N/A	Cream	Semi-compact	M	7	6	8
NEW	M62GB36	Med-Early	100	62	Delays	Bronze	Semi-open	M	8	8	7
	M3838	Med-Early	103	63	Matures	Cream	Semi-open	M	7	7	7

Medium-Early M60GB31

Days to Mid-bloom: 60
Bronze Grain Sorghum

SORGHUM

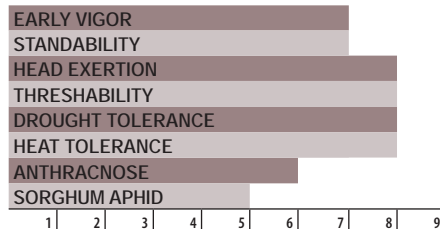


- All around sorghum leader: excellent yields with very uniform plants and eye appeal
- Medium plant height (average 42-48") with semi-open heads
- Very good test weight and grain quality
- Handles both moisture and heat stress
- Top multi-year yield leader since developed and introduced, adapts to environment
- Excellent tolerance to sorghum aphid
- Number one lead hybrid

Medium-Early 742C

Days to Mid-bloom: 62
Cream Grain Sorghum

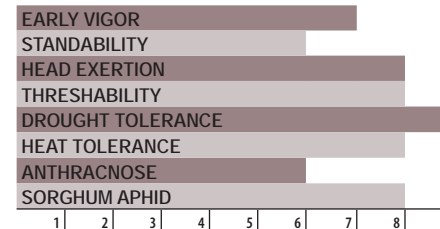
SORGHUM



- Medium-early, cream colored grain
- Very good heat and drought tolerance
- Good emergence and excellent yielder
- Excellent staygreen and late season intactness
- Adapted to the High Plains region of Texas, and throughout Kansas and Nebraska
- Limited tolerance to sorghum aphid

Medium-Early M62GC23

Days to Mid-bloom: 62
Cream Grain Sorghum

NEW
SORGHUM

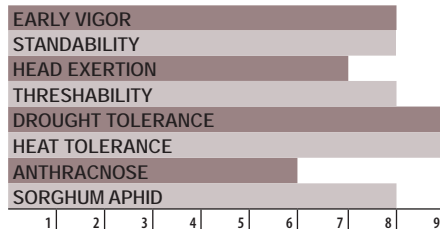
- Medium-early, cream colored grain with excellent sorghum aphid tolerance
- Well adapted for high stress environments of the west
- Strong low end yield performance and standability
- Adapted to High Plains Texas and throughout Kansas and Nebraska
- Works in South Dakota at early to mid planting dates

Threshability	Drought Tolerance	Heat Tolerance	DISEASE/INSECT TOLERANCE						PRODUCT
			Anthracnose	Head Smut	Downy Mildew 3 & 6	Sorghum Aphid	Green Bug Resistance	Approximate Seeds/lb. (thousands)	
9	8	8	7	6	4	9	C	13-15	M60GB31
8	8	8	6	9	5	5	C	13-15	742C
8	9	9	6	9	9	8	C, E	13-16	M63GB78
8	9	8	6	9	5	8	C, E	15-16	M62GC23
8	9	9	6	9	9	8	C, E	15	M62GB36
8	9	9	6	7	5	5	C, E	18-20	M3838

* Sorghum Aphid Tolerance; SCA tolerance is only one part of a good IPM program to control SCA. Regular scouting and awareness of SCA economic thresholds along with timely application of approved insecticides once thresholds are reached is critical to control SCA and prevent significant yield losses.

Medium-Early M62GB36 *Bronze Grain Sorghum*

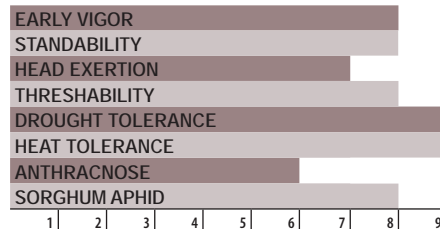
NEW SORGHUM



- Medium-early season bronze with excellent sorghum aphid tolerance
- Medium plant height (average 47-52") with semi-open heads
- Well suited for both high stress and high yield environments
- Excellent stalk strength and highly tolerant to head smut

Medium-Early M63GB78 *Bronze Grain Sorghum*

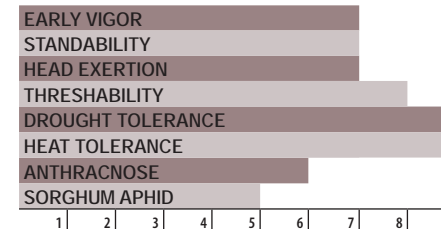
SORGHUM



- Sorghum aphid tolerance and downy mildew resistance
- Well adapted to mid-level production environments from south Texas to the Plains
- Performs very well in the Coastal Bend and other regions where downy mildew is significant
- Provides an open head for weather tolerance and faster drydown
- 46-51" average plant height with excellent stalk and root strength
- Excellent head smut tolerance with very good head exertion
- Excellent heat and moisture stress tolerance, works great on tough dryland acres

Medium-Early M3838 *Cream Grain Sorghum*

SORGHUM



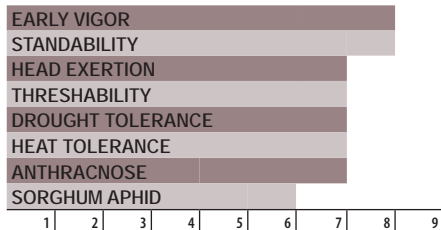
- Long time proven medium-early stress hybrid with cream colored grain
- Best adapted to dryland or areas with limited irrigation
- Semi-open head type that dries fast and allows for earlier harvesting
- Very good on high pH soils where iron chlorosis is a problem
- Sets the standard for dryland production, limited tolerance to sorghum aphid
- Because of its smaller seed size, monitor planting rates carefully

	PRODUCT				PLANT ATTRIBUTES						
	Dyna-Gro Brand	Relative Maturity	Days RM	Days to Mid-bloom	Late Planting/ Cool Weather Response	Grain Color	Head Type	Plant Height	Early Vigor	Standability	Head Exertion
	M64GB05DT	Medium	105	64	Matures	Bronze	Semi-open	M	8	8	7
NEW	M66GR32	Medium	106	66	Normal	Red	Semi-comp	M/T	8	8	7
	M67GB87	Medium	107	67	Normal	Bronze	Semi-comp	M/T	7	8	7
	M71GR91	Medium-Full	114	71	Normal	Red	Semi-comp	T	8	8	8
	M72GB71	Medium-Full	115	72	Matures	Bronze	Semi-open	M/T	9	8	7
NEW	M70GR37	Medium-Full	112	70	Normal	Red	Semi-comp	M/T	9	8	9

Medium M64GB05DT

Days to Mid-bloom: 64
Bronze Grain Sorghum

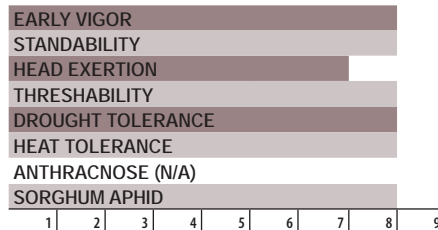
SORGHUM



- Medium maturing hybrid with bronze grain
- High yielding for maturity
- Excellent cool soil germination and emergence
- Good staygreen for great standability
- DT trait tolerates FirstAct™ herbicide for over the top grassy weed control

Medium M66GR32

Days to Mid-bloom: 66
Red Grain Sorghum

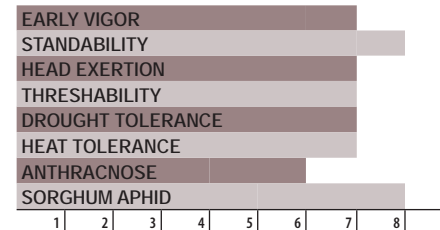
NEW
SORGHUM

- Medium season red colored grain with excellent sorghum tolerance
- High yield performer with a uniform attractive appearance
- Versatile product that will outperform in high and low yield environments
- Positioned for high yielding acres with heavy head smut pressure like the Texas Upper Gulf Coast

Medium M67GB87

Days to Mid-bloom: 67
Bronze Grain Sorghum

SORGHUM



- Excellent top yield in medium maturity genetics
- Downy mildew and sorghum aphid resistant
- Very good head smut and *Fusarium* head blight tolerance
- Excellent standability in moderately tall hybrid
- Very good test weights and fast drydown with semi-compact head
- Adapted south Texas, High Plains, and southern Kansas

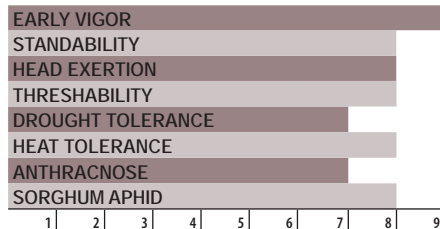
Threshability	Drought Tolerance	Heat Tolerance	DISEASE/INSECT TOLERANCE						PRODUCT
			Anthraxnose	Head Smut	Downy Mildew 3 & 6	Sorghum Aphid	Green Bug Resistance	Approximate Seeds/lb. (thousands)	
7	7	7	7	7	5	6	N/A	13-14	M64GB05DT
8	8	8	N/A	8	4	8	C, E	13-14	M66GR32
7	7	7	6	8	8	8	C, E	14-16	M67GB87
7	7	8	7	7	4	8	C, E	14-16	M71GR91
9	7	8	7	6	4	8	C, E	15-16	M72GB71
8	7	8	7	7	4	8	C, E	12-13	M70GR37

* Sorghum Aphid Tolerance; SCA tolerance is only one part of a good IPM program to control SCA. Regular scouting and awareness of SCA economic thresholds along with timely application of approved insecticides once thresholds are reached is critical to control SCA and prevent significant yield losses.

Medium-Full M70GR37 Red Grain Sorghum

Days to Mid-bloom: 70

NEW SORGHUM

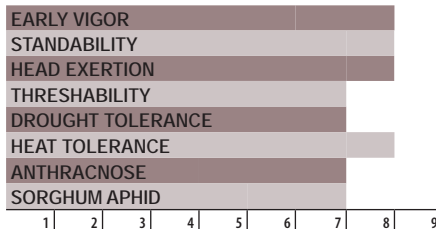


- Medium-full, red colored hybrid with excellent sorghum aphid tolerance
- Strong top end yield performance
- Adapted across medium to high yield environments in Texas and High Plains
- Excellent *Fusarium* head blight tolerance

Medium-Full M71GR91 Red Grain Sorghum

Days to Mid-bloom: 71

SORGHUM

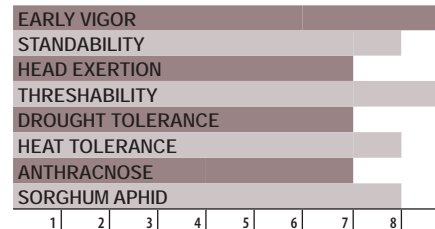


- Medium-full, red colored hybrid with excellent sorghum aphid tolerance
- Excellent top end yield and test weight
- Very good stalks and roots for a moderately tall hybrid, favorable to irrigation
- A very good, uniform field color
- *Fusarium* head blight tolerance
- Adapted across medium to high yield environments in Rio Grande Valley

Medium-Full M72GB71 Bronze Grain Sorghum

Days to Mid-bloom: 72

SORGHUM



- Medium-full season bronze with excellent sorghum aphid tolerance
- Good performance across geographies from Delta, to south Texas to central Kansas
- Excellent roots and stalks with standability and very uniform field eye appeal
- Very high yield potential in irrigated or good dryland conditions
- *Fusarium* head blight tolerance with very good test weight
- Very good drought and heat tolerance



SUNFLOWER

At home on any acre.



DYNAGRO
SEED

LEGEND

Dyna-Gro Seed is focused on bringing value to customers' farms by offering the best yielding, most consistent products available. Dyna-Gro continues to search out and evaluate new products and traits to meet the needs of our customers. Dyna-Gro Seed is bringing to market sunflower hybrids that meet the needs of both producers and the industry.

RATING SCALE:

9 = Excellent

5 = Average

1 = Poor

N/A = Information Not Available

Actual ratings based on best current information available and may be affected by changing environmental and management conditions.

Clearfield® and Clearfield Plus® are registered trademarks of BASF. ExpressSun® is a Trademark of DuPont, Dow AgroSciences, Pioneer and affiliated companies or their respective owners.

NuSun® is a registered trademark of the National Sunflower Association.

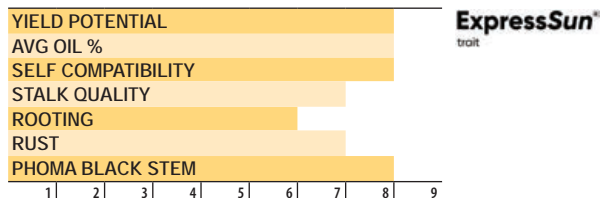
Plenaris® is a registered trademark of a Syngenta Group Company.

PRODUCT						GROWTH								DISEASE TOLERANCE		
Hybrid	Maturity Group	Maturity Range	Oil	Trait		Self Compatibility	Days to Flower	DRM	Plant Height	Avg Oil%	Seed Color	Stalk Quality	Rooting	Downy Mildew	Rust	Phoma Black Stem
H45HO10 EX	Med-Early	93-99	High Oleic	ExpressSun®		8	65	96	62	46	Black	7	6	Seed Treatment	7	8
H45NS16 CL	Med-Early	93-99	NuSun	Clearfield®		8	66	96	62	46	Gray	8	8	PL6	8	8
H47HO11 EX	Medium	94-104	High Oleic	ExpressSun®		8	66	102	67	43	Black	7	7	PL8	N/A	N/A

Medium-Early 93-99

H45HO10 EX

Brand High Oleic

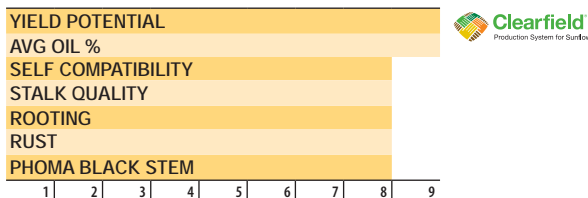


- High oleic and Express® herbicide tolerant
- Medium-early maturing hybrid well suited for North Dakota
- Very good emergence vigor and uniformity of flower
- Excellent oleic values and oil content, also suited for the bird seed market
- Plenaris® seed treatment applied for downy mildew protection
- Oil content can vary with environmental conditions
- Oleic acid levels can vary due to environment and proximity to non-high oleic hybrids

Medium-Early 93-99

H45NS16 CL

Brand NuSun®

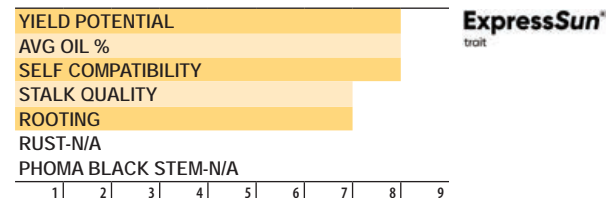


- Relatively short plant height
- Medium-early hybrid, better for North Dakota, South Dakota, and Minnesota
- Good yield potential for maturity
- Uniform
- Oil content can vary with environmental conditions

Medium 94-104

H47HO11 EX

Brand High Oleic

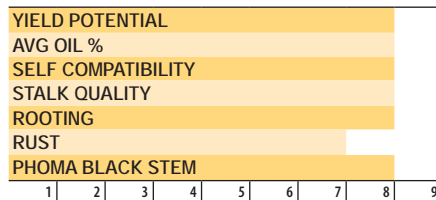


- High oleic oilseed hybrid
- Good disease tolerance
- Well suited to both dryland or irrigated situations
- Good yield potential with good oleic values and oil content
- Both oleic values and oil content can be influenced by environmental conditions
- Well adapted to central and western growing regions of the Dakotas
- ExpressSun® herbicide trait

PRODUCT							GROWTH	
Hybrid	Maturity Group	Maturity Range	Oil	Trait	Self	Compatibility	Days to Flower	DRM
H49HO19 CL	Med-Late	97-110	High Oleic	Clearfield®	8		67	105
H50HO20 CP	Med-Late	98-112	High Oleic	Clearfield Plus®	8		69	108
WILDLIFE								
GAME PLAN CL	Medium	94-102	Bird	Clearfield®	8		65	98

Medium-Late 97-110 H49HO19 CL Brand High Oleic

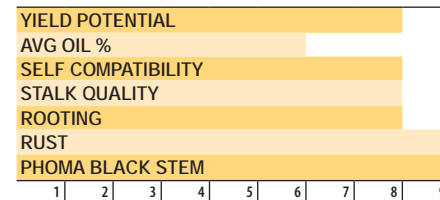
SUNFLOWER



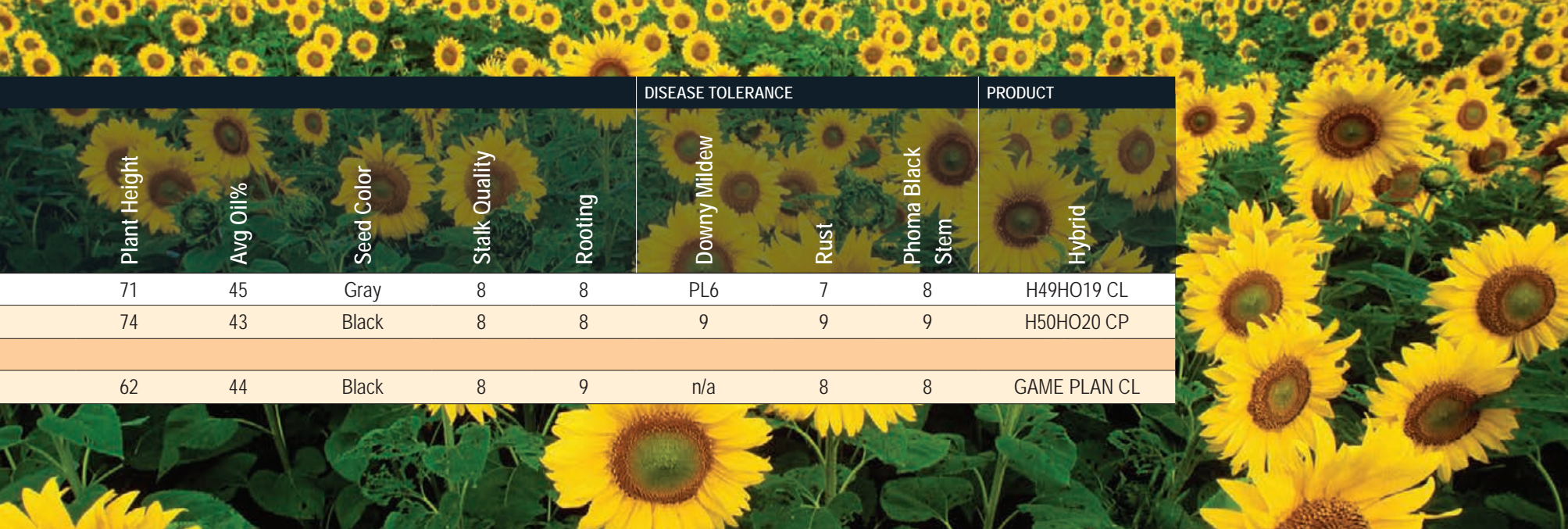
- Oleic acid levels can vary due to environment and proximity to non-high oleic hybrids
- Medium-late maturing hybrid suited for North Dakota south of I-94 and southward to South Dakota, Colorado, Kansas and Texas
- Average plant height
- Excellent seed set
- Oil content can vary with environmental conditions

Medium-Late 98-112 H50HO20 CP Brand High Oleic

SUNFLOWER



- Clearfield Plus® herbicide trait
- Full season hybrid suited to areas from Texas to northern South Dakota and up to I-94
- Very good disease tolerance
- Very good oil potential and oleic values
- Suitable for all oil sunflower uses including high oleic oil to bird seed
- Oil content of all sunflowers can vary with environmental conditions
- Oleic acid levels can vary due to environment and proximity to non-high oleic hybrids



Plant Height	Avg Oil%	Seed Color	Stalk Quality	Rooting	DISEASE TOLERANCE			PRODUCT
					Downy Mildew	Rust	Phoma Black Stem	
71	45	Gray	8	8	PL6	7	8	H49HO19 CL
74	43	Black	8	8	9	9	9	H50HO20 CP
62	44	Black	8	9	n/a	8	8	GAME PLAN CL



Medium
Game Plan CL

94-102
Brand *Bird*

YIELD POTENTIAL	6
AVG OIL %	7
SELF COMPATIBILITY	8
STALK QUALITY	8
ROOTING	9
RUST	8
PHOMA BLACK STEM	8

1 2 3 4 5 6 7 8 9

- Medium maturity with wide range of adaptability
- Shorter plant type
- Uniform appearance
- For conservation and wildlife food plots
- Scout for sunflower head moth, several insecticides are available to control this insect
- Wild game sunflowers are packaged in bags of 75,000 kernels



CANOLA

At home on any acre.



DYNAGRO[®]
SEED

Bayer Company 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. This product has been approved for import into key export markets with functioning regulatory systems. Any crop or material produced from this product can only be exported to, or used, processed or sold in countries where all necessary regulatory approvals have been granted. It is a violation of national and international law to move material containing biotech traits across boundaries into nations where import is not permitted. Growers should talk to their grain handler or product purchaser to confirm their buying position for this product. Excellence Through Stewardship® is a registered trademark of Excellence Through Stewardship.

ALWAYS READ AND FOLLOW PESTICIDE LABEL

DIRECTIONS. Roundup Ready technology contains genes that confer tolerance to glyphosate, an active ingredient in Roundup® brand agricultural herbicides. Agricultural herbicides containing glyphosate will kill crops that are not tolerant to glyphosate.

LibertyLink® Technology contains genes that confer tolerance to glufosinate. LibertyLink® and the Water Droplet Design are trademarks of BASF.

Helix® Salto® is an on-seed application of Helix Vibrance® Seed Treatment insecticide/fungicide and Salto® Seed Treatment fungicide.

CLEARFIELD® Production System.

PRODUCT USE STATEMENT

This product contains a gene which makes it tolerant only to the imidazolinone herbicides labeled for use on canola such as BEYOND®. WARNING: This imidazolinone-tolerance gene will only safeguard this hybrid against application of labeled imidazolinone herbicides. This imidazolinone tolerance gene will NOT safeguard this hybrid against application of other herbicide chemistries which are labeled to be used only over-the-top of crops that have a different and species crop protection gene. This imidazolinone tolerance gene will NOT provide carryover protection from SU (sulfonylurea) family of herbicides. Always read and follow herbicide label directions prior to use. ACCIDENTAL APPLICATION OF INCOMPATIBLE HERBICIDES TO THIS HYBRID COULD RESULT IN TOTAL CROP LOSS. The UNIQUE CLEARFIELD SYMBOL, CLEARFIELD and Beyond are registered trademarks of BASF.

Roundup Ready®, Roundup® and TruFlex® are trademarks of Bayer Group. Clearfield® and LibertyLink® are a registered trademark of BASF. Clearfield canola technology is owned by Corteva Agriscience™. Prosper®, Evergol™ are trademarks of Bayer Group. Used under license. ©2024 Bayer Group. Helix®, Salto®, and Vibrance® are trademarks of a Syngenta Group Company. ©2024 Syngenta.

LEGEND

RESISTANCE RATINGS:

R=Resistant, MR=Moderately Resistant, S=Susceptible;

RATING SCALE:

EX = Excellent, VG = Very Good, G = Good, F = Fair, P = Poor, N/A = Information Not Available

Red = New

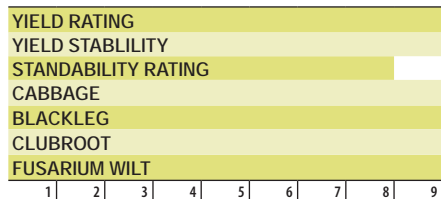
Important: Ratings are based on the average performance of a variety grown over a wide range of climate and soil types within its adapted maturity under normal growing conditions. Extreme conditions may adversely affect performance. Consult your local Dyna-Gro Representative for specific recommendations in your area. Copyright ©2023 Nutrien Ag Solutions®



PRODUCT					GROWTH			
Brand	Variety	Technology	Herbicide System		Average Days to Flower	Average Days to Maturity	Height inches	Yield Description
Dyna-Gro	DG 280 CLC	CLEARFIELD®	IMI		51.2	89.8	46.5	EX
Dyna-Gro	DG 661 LCM	LibertyLink®	Glufosinate		48.7	88.7	46.5	EX
Dyna-Gro	DG 760 TM	TruFlex®	Glyphosate		47.9	88.2	42.9	VG
Dyna-Gro	DG 761 TM	TruFlex®	Glyphosate		49.1	90.3	45.3	EX
Dyna-Gro	DG 781 TCM	TruFlex®	Glyphosate		47.5	89.3	43.3	EX

DG 280 CLC Brand

CANOLA



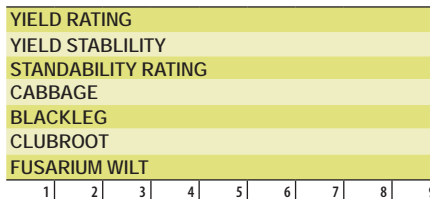
An outstanding Clearfield® hybrid with multigenic clubroot resistance and blackleg resistance. DG 280 CLC offers excellent yield and profits through non-GMO contract premiums.

HIGHLIGHTS

- Outstanding yield potential
- Eligibility for non-GMO contract incentives
- Multigenic clubroot resistance
- Excellent standability
- Excellent blackleg rating

DG 661 LCM Brand

CANOLA



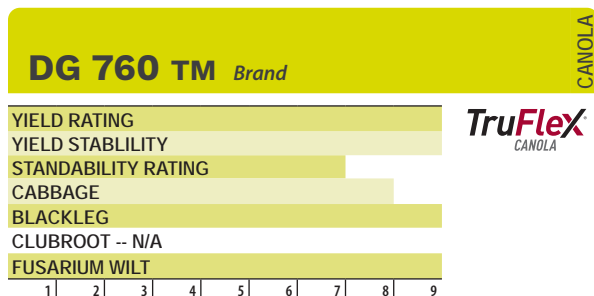
This LibertyLink® hybrid from Proven Seed provides yield performance, harvest management and multigenic clubroot resistance. DG 661 LCM has it all, supplying a reliable choice for all growing areas.

HIGHLIGHTS

- High yield, mid maturity
- Multigenic clubroot resistance
- Harvest management hybrid
- LibertyLink® herbicide system providing glufosinate tolerance



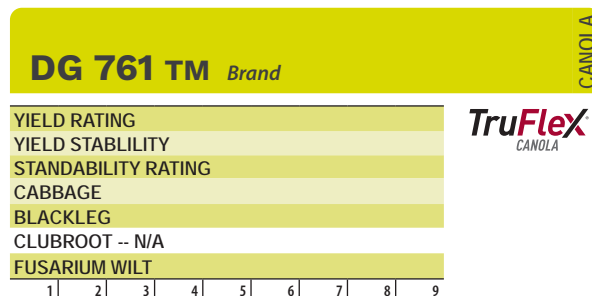
DISEASE		PRODUCT			
Blackleg	Clubroot	Fusarium Wilt	Standability	Harvest Management	Variety
R	Multigenic clubroot resistance	R	EX	N/A	DG 280 CLC
R	Multigenic clubroot resistance	R	EX	Yes	DG 661 LCM
R	N/A	R	VG	Yes	DG 760 TM
R	N/A	R	EX	Yes	DG 761 TM
R	Multigenic clubroot resistance	R	EX	Yes	DG 781 TCM



The earliest maturing TruFlex[®] Canola with harvest management traits allows growers to have the flexibility at harvest to straight cut or delay swathing. DG 760 TM brings a wider spray window and application rate flexibility helping growers maximize yields in all geographies.

HIGHLIGHTS

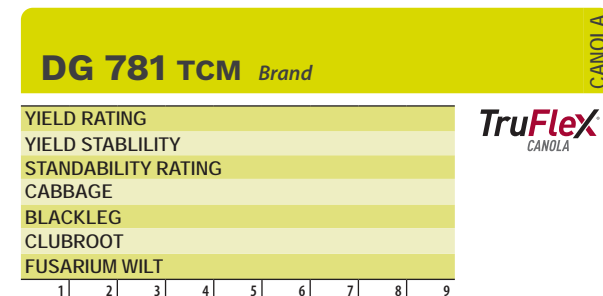
- Early to flower maturity
- Harvest management hybrid
- TruFlex[®] technology for flexibility in application rate and staging



A consistent high yielding TruFlex[®] Canola hybrid. DG 761 TM provides growers flexibility on herbicide rates, application windows and straight cut harvest management. With blackleg protection and standability, this hybrid is designed to perform.

HIGHLIGHTS

- Mid maturity
- High yielding hybrid
- TruFlex[®] technology for flexibility in application rate and staging



A excellent yielder. DG 781 TCM has early maturity with multi-genic Clubroot resistance, a strong Blackleg rating with major gene resistance and excellent standability. DG 781 TCM is a harvest management hybrid that is suitable for straight cutting.

HIGHLIGHTS

- Mid maturity
- Clubroot resistant with enhanced blackleg resistance and protection
- TruFlex[®] technology flexibility in application rate and staging
- Harvest flexibility for delayed swathing or straight cut



ALFALFA

At home on any acre.

DYNAGRO®
SEED

LEGEND

FALL DORMANCY: 1-9 Rating

Varieties with higher fall dormancy ratings tend to grow at a lower temperature. A higher dormancy begins to grow earlier in the spring and later into the fall, extending the growing season. Until recently, it was generally felt that fall dormancy rating was very closely correlated with winter hardiness. This relationship with modern varieties seems less dependable. For example, a variety with a "3" dormancy rating may not always have greater cold tolerance compared to one with "5" fall dormancy rating.

Rating	Dormancy Group	Normal # of Cuttings
1	Very Dormant	1-2
2, 3	Dormant	2-3
4, 5, 6	Moderate Dormancy	4-6
7, 8	Non-Dormant	7-8
9	Very Non-Dormant	8-9

WINTERHARDINESS:

- 1 = Very Hardy
- 2 = Hardy
- 3 = Moderately Hardy

PERSISTENCE INDEX:

- 9 = Most Persistent
- 1 = Least Persistent

CUTTING RECOVERY:

- 9 = Very Fast
- 1 = Very Slow

YIELD LEVEL AND FORAGE QUALITY:

- 9 = Excellent
- 1 = Poor

DISEASE RATING INDEX

Includes *Phytophthora* Root Rot, Bacterial Wilt, Anthracnose, *Verticillium* Wilt, *Fusarium* Wilt and *Aphanomyces* on a 30 point scale where a HR (Highly Resistant) rating of 5 for all six major diseases gives a perfect 30 out of 30 score.

Raw versus Coated Seed in Alfalfa

DISEASE RATINGS:

- HR = Highly Resistant or greater than 50% resistant plants
 R = Resistant or 31-50% resistant plants
 MR = Moderately Resistant or 15-30% resistant plants
 LR = Low Resistance or 6-14% resistant plants
 S = Susceptible

FEED VALUE:

RFV = Relative Feed Value

Due to the unique cropping practices do not plant Roundup Ready® Alfalfa in Imperial County, California, pending import approvals and until Forage Genetics International, LLC ("FGI") grants express permission for such planting.

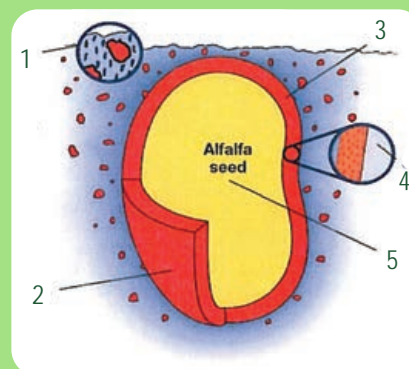
Forage Genetics International, LLC ("FGI") is a member of Excellence Through Stewardship® (ETS). FGI products are commercialized in accordance with ETS Product Launch Stewardship Guidance, and in compliance with FGI's Policy for Commercialization of Biotechnology-Derived Plant Products in Commodity Crops. Roundup Ready® Alfalfa has pending import approvals. 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. Growers should refer to <http://www.biotradestatus.com/> for any updated information on import country approvals. Excellence Through Stewardship® is a registered trademark of Excellence Through Stewardship.

ALWAYS READ AND FOLLOW PESTICIDE LABEL

DIRECTIONS. Roundup Ready® crops contain genes that confer tolerance to glyphosate. Glyphosate herbicides will kill crops that are not tolerant to glyphosate. Roundup Ready® is a registered trademark of Bayer Group, used under license by Forage Genetics International, LLC.

Understanding the value of coated alfalfa seed versus raw seed is significant, with the objective of obtaining a long-lived highly productive stand. When the term raw seed is used, this is descriptive of truly raw seed treated with Apron XL® or another systemic fungicide, along with a suitable rhizobia inoculant. When we talk about coated seed, this description refers to an end product that has gone through a process where each seed is coated with a tough, durable and hygroscopic seed coating that protects and supports the live *rhizobium*. The coating is nearly dust free, providing improved seed handling, plantability and superior agronomic performance. Of the thousands of different strains of bacteria, only a few are efficient in doing this for a given plant, such as alfalfa or clover. Systemic fungicides, minerals and other ingredients may also be included. New seed coating enhancements will contain specially selected micro-nutrients and macro-nutrients that boost seedling establishment and crop production under difficult soil conditions. Seeding rate studies have shown that coated seed improves seedling establishment by 35% even when both raw and coated seed are planted at the same seeding rate per acre.

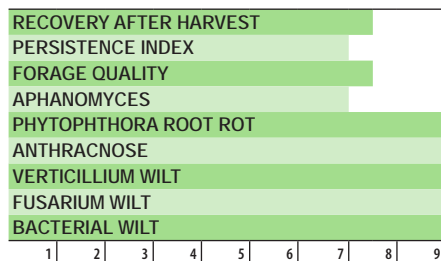
1. Miscellaneous or "mystery" strains of *Rhizobium* found in the soil create unpredictable root nodulation.
2. Fungicide provides an excellent delivery system to fight off the damaging effects of seedling diseases such as *Phytophthora* root rot and *Pythium* during the seedlings first few weeks of life.
3. Coated seed is tough and durable. The hygroscopic seed coating that protects and supports the live *Rhizobium* is nearly dust free; it provides improved seed handling, plantability and superior agronomic performance.
4. The survivability of the beneficial live *Rhizobium* is superior to other seed coatings and inoculation processes.
5. The seeding rate for coated seed is the same as non-coated seed. Coated seed provides better stand establishment because more seeds survive becoming healthy, vigorous growing plants.



	PRODUCT		MATURITY			YIELD				DISEASE TOLERANCE		
	Dyna-Gro Brand	Fall Dormancy	Winter Hardiness	Persistence Index	Cutting Recovery	Yield Level	Forage Quality	Recommended Cuttings Per Season	Multi-Foliate Leaf Expression	Disease Rating Index	Phytophthora Root Rot	Aphanomyces
	TMA 310 BRAND	3.0	2.0	6.8	7.5	7.0	7.5	2-3	N/A	29	HR	R
	TMA 420 Brand	4.0	2.0	7.0	7.5	7.0	7.8	3-5	N/A	29	HR	R
	TMA 420LH Brand	4.0	2.1	8.4	8.0	8.0	8.4	3-5	81%	30	HR	HR
	DG417RR	4.0	1.5	8.7	8.5	9.0	8.8	3-5	N/A	30	HR	HR
	Grandstand II	4.1	1.6	8.6	9.0	9.0	9.0	3-5	77%	30	HR	HR
	DG 4120	4.4	1.3	8.8	8.6	9.0	9.0	3-5	82%	30	HR	HR

FD 3.0 TMA 310 Brand

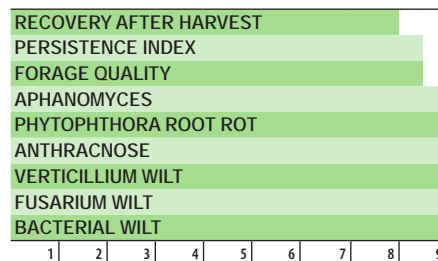
ALFALFA



- Selected for its versatility in a wide range of northern growing conditions
- Excellent choice for shorter stand rotations at a reduced seeding cost
- Combines high forage yields with strong winter hardiness
- Very high forage quality

FD 4.0 TMA 420LH Brand

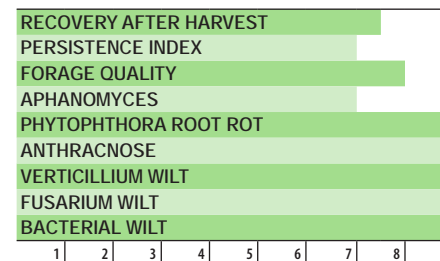
ALFALFA



- High yielding potato leafhopper alfalfa bred for Midwest and northern growing areas
- Yield trials show strongest performance in the first and second production years
- High expression of the multifoliate for high feed value forage
- Highest disease index rating available with 30 out of total 30 possible score
- Plant for potato leafhopper resistance, disease resistance and high quality forage

FD 4.0 TMA 420 Brand

ALFALFA

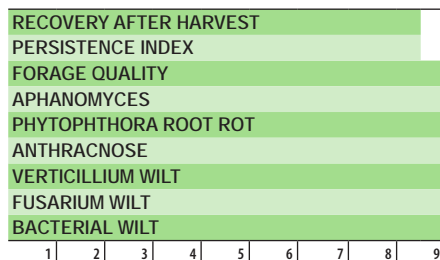


- Will generate plenty of residual nitrogen for corn, potatoes or other crops to follow
- Healthy, fast growing alfalfa
- Combines high tonnage and strong winter hardiness
- Represents a breakthrough in production of high quality forage throughout the dormancy 4 maturity zone

					INSECT RESISTANCE					PRODUCT
Aphanomyces Race 2	Bacterial Wilt	Anthraxnose	Verticillium Wilt	Fusarium Wilt	Pea Aphid	Spotted Alfalfa Aphid	Potato Leaf Hopper	Stem Nematode	Root Knot Nematode	Dyna-Gro Brand
-	HR	HR	HR	HR	R	N/A	N/A	N/A	N/A	TMA 310 BRAND
-	HR	HR	HR	HR	R	N/A	N/A	N/A	N/A	TMA 420 Brand
-	HR	HR	HR	HR	R	R	HR	N/A	N/A	TMA 420LH Brand
R	HR	HR	HR	HR	N/A	N/A	N/A	R	N/A	DG417RR
-	HR	HR	HR	HR	R	R	N/A	HR	N/A	Grandstand II
HR	HR	HR	HR	HR	R	HR	N/A	R	N/A	DG 4120

FD 4.0 DG 417RR

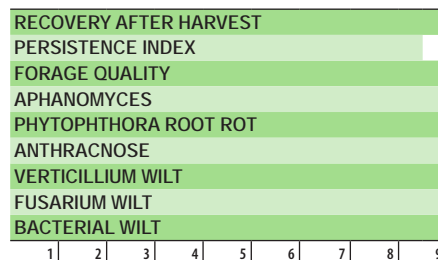
ALFALFA



- Roundup Ready® alfalfa which combines high tonnage, disease resistance, and high feed values
- Top score of 30 out of 30 on disease resistance index along with stem nematode and Aphanomyces Race 2 resistance
- Fewer weeds in every bale resulting in better quality feed and longer stand life fields
- New generation of alfalfa that combines later fall dormancy and excellent winter hardiness
- Improved stand establishment with Roundup Ready® weed control produces higher quality hay
- Fast recovery after cutting, excellent forage yields with high RFVs

FD 4.1 GRANDSTAND II

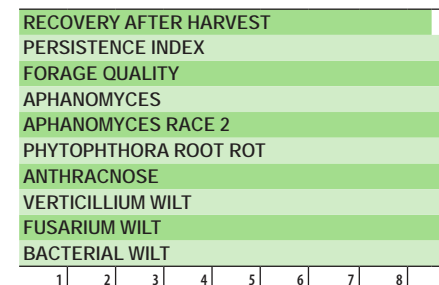
ALFALFA



- Newer version of Grandstand with top yield potential in western growing areas
- Outstanding multifoliate expression produces high feed values
- Plant for top yields, high quality and long stand life
- Adapted to intense cutting schedules with fast recovery after cuttings
- Disease rating index excellent at 30 out of potential 30 and high resistance to stem nematode

FD 4.4 DG 4120

ALFALFA



- Newer genetics that combines high-end tonnage yields with excellent winterhardiness
- Brings added disease tolerance with high resistance to Aphanomyces Race 2 and Race 3
- Significantly more winter hardy than other commercial varieties of this dormancy
- Multiple pest resistance with very fast recovery after cutting
- High multifoliate leaf expression and dark green in color produces high feed values
- Plant across Midwest and North for high quality, long stand life, intense management and high yields



RICE

At home on any acre.

DYNAGRO
SEED

PRODUCT

Brand	Variety	Days to Heading	Average Days Maturity	Type	Trait	Lodging
Dyna-Gro	DG245L	82	117	Long Grain	Conv	MR
Dyna-Gro	DG263L	83	118	Long Grain	Conv	MR
Dyna-Gro	DG353M	85	125	Med Grain	Conv	MR

LEGEND

RATING SCALE:

EX = Excellent
VG = Very Good
G = Good
F = Fair
P = Poor
N/A = Information Not Available

DISEASE RATINGS:

R = Resistant
MR = Moderately Resistant
MS = Moderately Susceptible
S = Susceptible
Red = New

IMPORTANT: Ratings are based on the average performance of a variety grown over a wide range of climate and soil types within its adapted maturity under normal growing conditions. Extreme conditions may adversely affect performance. Consult your local Dyna-Gro Seed Crop Consultant for specific recommendations in your area.

	AGRONOMICS							QUALITY					DISEASE								
	Seedling Vigor	Average Seeds Per Pound	Seeding Rate lbs/Acre	Optimum Planting Date	Panicle	Nitrogen Recommendation lbs/Acre	Plant Height	Average Milling	Chalk	Amylose	Grain Size: Un-Milled	Grain Size: Milled	Bacterial Panical Blight	Kernel/False Smut	Cercospora	Sheath Blight	Blast	Straight Head	Narrow Brown Leaf Spot	Area of Adaption	
	EX	18,500	60-85	3/15 - 5/15	Awnless, 9-10"	150-180	36"	64/70	6-8%	21%	7.0mm	6.5mm	MS*	MS*	MS*	S	MS*	N/A	MR	AR, MS, MO, TX & LA	
	EX	17,500	45-65	3/15 - 5/15	Awnless, 9-10"	150-180	36"	58/69	6-8%	26%	7.0mm	6.5mm	MR	MR	MS	S	MR	N/A	MR	AR, MS, MO, TX & LA	
	EX	16,500	50-75	3/15 - 5/15	Awnless, 9-10"	150-180	36"	60/70	10-12%	12%	6.0mm	5.6mm	MS*	MS*	MS*	S*	MS	N/A	MR	AR, MS, MO, TX & LA	

DG245L Brand

RICE

- Semi-dwarf, early maturing, long-grain variety
- Exceptional milling yields and grain quality
- Medium plant height and great stalk strength for lodging resistance and storm tolerance
- Very stable yields over five years of research
- Excellent ratoon crop potential
- Intermediate gel temperature and intermediate amylose content

DG263L Brand

RICE

- High yielding long grain variety with excellent quality
- Excellent disease package including blast and smuts
- Plant height and stalk strength for lodging resistance and storm tolerance
- Proven field performance
- Uniform grain size and very good miller
- Lower seeding rates than most varieties

DG353M Brand

RICE

- High yielding medium grain variety with excellent quality
- Uniform grain size and very good miller
- Great standability and favorable plant height
- Very stable yields over four years of research
- Lower seeding rate than other conventional medium grain inbreds

FINANCING THAT'S IN THE FIELD WITH YOU.



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A Great Partner with Dyna-Gro® Seed

Loveland Products, Inc.® offers a complete line of high performance input products that make a great partner with our Dyna-Gro seed offerings. Our portfolio of seed treatment, plant nutrition, fertilizer, adjuvant and crop protection products are second to none. We are constantly striving to bring new, unique chemistries to the marketplace to provide innovative solutions to problems across the agricultural industry.

The combination of high performance, high quality, competitively priced products, with the knowledge and service of our team, makes Loveland Products a good value for any operation.

Plant Nutrition

PRODUCT	FEATURES AND BENEFITS	NUTRIENT ANALYSIS
ACCOMPLISH MAX™	Accomplish MAX™ combines a proprietary biocatalyst for increased nutrient availability with natural marine-based technology to improve crop tolerance to abiotic stresses like cold temperatures and salinity from applied fertilizers.	
AWAKEN®	Multi-micronutrient blend particularly effective at providing the plant with the essential nutrients needed to help overcome stressful situations while addressing micronutrient deficiencies.	16-0-2 w/Micronutrient Package
±BLACK LABEL® Zn	Phosphate fertilizer built with C2 Technology - to provide sound, efficient and immediately available phosphate-based nutrition with zinc.	6-20-0-0.77 Zn w/7.1% Organic Acid
±BLACKMAX® 22	Powered by C2 Technology, Blackmax 22 is a highly concentrated soil amendment that increases fertilizer efficiency.	
BLACKMAX WSG	Blackmax WSG brings the grower benefits of Blackmax 22 liquid into the convenience of a dry granule.	0-0-8
EXTRACT POWERED BY ACCOMPLISH®	A proprietary blend of proven fertilizer biocatalysts - Accomplish® LM and ammonium thiosulfate, designed to help growers manage crop residue easily and effectively while increasing release of nutrients from that residue.	6-0-0-13S
FULLBACK®	Magnesium acetate formulation for maximum uptake.	6% Magnesium
±LEVITATE®	A proprietary starter fertilizer formulated with a blend of proven fertilizer biocatalyst - Accomplish® LM as well as ACA® technology, fulvic acids and EDTA chelated Zinc.	5-15-5 1.5Zn
LOKOMOTIVE®	Proven as a sound and efficient foliar potassium. LOKOMOTIVE's formulation is designed to get potassium into the plant quicker and more efficiently, for an optimized approach to potassium nutrition.	2-0-25 (Potassium Acetate)
MAXIMUM N-PACT®	An enhanced slow release nitrogen which provides a stable source of foliar nitrogen for increased uptake, translocation and assimilation of nitrogen with excellent crop safety and increased stress tolerance.	24-0-0 Triazone Nitrogen
MAXIMUM N-PACT® B	A stable source of foliar nitrogen balanced with boron for increased uptake, translocation and utilization of nitrogen and other major nutrients at key reproductive periods and increased stress tolerance	12-0-0 5B
MAXIMUM N-PACT® K	An enhanced slow release nitrogen balanced with potassium for increased uptake, translocation and utilization of nitrogen and potassium, with excellent crop safety and increased stress tolerance.	12-0-12
NITRAIN EXPRESS™ 2.0	A proprietary product containing a unique mix of NBPT and fertilizer biocatalyst technology similar to that found in Accomplish® LM.	
NITRAIN™ BULLET	Nitrogen stabilizer compatible with anhydrous and UAN that protects plant-available ammonium from losses to the environment and maximizes the amount of nitrogen available for crop uptake.	
N-PACT®	Triazone slow release nitrogen which provides increased foliar nitrogen uptake and translocation, reduced volatility and excellent crop safety.	26-0-0 w/33% SRN
NUTRISYNC® FAMILY	A unique line of foliar applied micronutrients, NUTRISYNC technology helps Load, Haul, and Deliver nutrition to areas of need driving crop productivity throughout the season.	
PROLOGUE®	Prologue® is designed to increase the efficiency of existing and applied phosphate for a higher performing and more sustainable approach to nutrition.	5-0-0 6.3Zn
QUICK ULTRA™ + AWAKEN®	A dual source of phosphates containing an enriched micronutrient package in the highly available EDTA/HEDTA forms.	7-28-4 w/Micronutrient Package
±RADIATE®	A high quality, consistent-performing plant growth regulator containing IBA and Kinetin. Radiate is designed to increase early season plant vigor and improve overall plant health leading to increased yield potential.	Contains (IBA), Cytokinin, as Kinetin

Plant Nutrition (continued)

PRODUCT	FEATURES AND BENEFITS	NUTRIENT ANALYSIS
RADIATE NEXT™	Radiate Next™ is a foliar-applied plant growth hormone solution that drives root growth and development and improves water use efficiency, while increasing photosynthetic rate to increase energy production and realize higher yields.	Contains: IBA (Indole-3-butyric Acid), Kinetin, GABA (gamma-Aminobutyric Acid), Choline Chloride
REBAR® 3	Rebar® 3 is the only liquid in-furrow Iron with EDDHA and EDDHSA chelation to extend availability in severe alkaline soils to correct iron chlorosis issues in affected crops.	3% Fe
REAX™ FAMILY	Powered by C2 Technology, the ReaX family of nutrients are built with extracted and reacted carbon and carbohydrates. This unique platform overcomes limiting factors in the soil for a more sustainable approach to plant nutrition and soil health.	
RISER®	Pop-up fertilizer designed to increase seedling vigor and root mass for optimum yield potential.	7-17-3 w/Micronutrient Package
TASK FORCE® 3D	A fully formulated foliar nutrition tool designed to help support flower set, bloom retention, and to promote fill of pods and fruit supporting your yield and quality goals.	11-8-5 with Micro Package
TERRAMAR™	TERRAMAR is a proprietary bio-extraction of seaweed and leonardite, designed to increase nutrient uptake, enhance CEC and chelation. By delivering unique metabolic compounds TERRAMAR enhances microbial activity in the rhizosphere, and improves plant response to stressful conditions.	
*TITAN® XC	A biochemical fertilizer catalyst (biocatalyst) - specifically formulated for impregnation on dry fertilizer blends.	

Seed Treatment

PRODUCT	CATEGORY	CROP (Reference Labels For Additional Crops)	ACTIVE INGREDIENT(S)
AWAKEN COFLOW®	Nutritional + Seed Polymer	Corn	Ammonium Acetate Zn + Micronutrients + Polymer
AWAKEN FLOWBOOST	Nutritional + Seed Lubricant	Soybean, Corn, Wheat, Cotton, Sorghum, Sunflower, Canola, Rice	Lubricant Base + Micronutrients
AWAKEN® ST	Nutritional	Cotton, Wheat, Sorghum, Rice	Ammonium Acetate Zn + Micronutrients
CONSENSUS®	PGR (Plant Growth Regulator)	Soybean, Corn, Wheat, Cotton, Sorghum, Sunflower, Canola, Rice	IBA + Salicylic Acid + Chitosan
DYNA-SHIELD CONQUEST®	Fungicide + Insecticide	Soybean	Metalaxyl + Thiophanate-Methyl + Imidacloprid + Fludioxonil
DYNA-SHIELD FLOWTECTION®	Seed Polymer	Soybean, Corn, Wheat	Polymer
DYNA-SHIELD® FLUDIOXONIL	Fungicide	Soybean, Corn, Wheat, Cotton, Sorghum, Sunflower, Canola, Rice	Fludioxonil
DYNA-SHIELD® FM	Fungicide	Soybean, Corn, Wheat, Cotton, Sorghum, Sunflower, Canola Rice	Fludioxonil + Imidacloprid
DYNA-SHIELD® Foothold® PROFOUND	Fungicide	Wheat	Metalaxyl + Tebuconazole + Fludioxonil
±DYNA-SHIELD® Foothold® VIROCK®	Fungicide + Insecticide	Wheat	Metalaxyl + Tebuconazole + Fludioxonil + Imidacloprid
DYNA-SHIELD® IMIDACLOPRID	Insecticide	Soybean, Corn, Wheat, Cotton, Sorghum, Sunflower, Canola, Rice	Imidacloprid
DYNA-SHIELD® METALAXYL 318FS	Fungicide	Soybean, Corn, Wheat, Cotton, Sorghum, Sunflower, Canola, Rice	Metalaxyl
DYNA-START® 3P+	PGR + Inoculant + Biological Fungicide	Soybean	IBA + Salicylic Acid + Chitosan + Rhizobium Inoculant + Biological Fungicide
DYNA-START® X2 PEANUT	Inoculant	Peanut	Rhizobium Inoculant
±EQUITY VAYO®	Fungicide + Insecticide	Soybean	Mefenoxam + Fludioxonil + Sedaxane + Thiabendazole + Picarbutrazox + Thiamethoxam

Adjuvants

PRODUCT	CATEGORY	FEATURES AND BENEFITS
CHOICE® TRIO	Water Conditioner	A liquid water conditioner with NO AMS; 3 water conditioning components - sequestering, synthetic chelating, and complexing.
COMPADRE®	Leci-Tech®	Designed to improve coverage of pesticides by reducing drift and optimizing droplet size. Compadre also contains anti/defoaming properties.
DELTA COMPLETE™	DRA/VRA Combo	Proprietary Drift Reduction Agent (DRA) and Volatility Reduction Agent (VRA) that is specifically formulated for over-the-top dicamba chemistries in one easy-to-use formulation.
FRANCHISE®	Leci-Tech®	NPE-free formulation specifically designed for fungicide applications.
HERBIMAX®	Crop Oil Concentrate	A multi-component oil/surfactant containing premium emulsifiers which provide exceptional penetration.
INFUSE®	Soil Adjuvant	A proprietary vegetable oil-based soil-applied surfactant designed to hold soil applied chemistry in the targeted areas longer.
LI 700®	Leci-Tech®	Multipurpose adjuvant with drift reduction, droplet retention, penetration, acidifier and low foaming vs a conventional NIS.
LIBERATE®	Leci-Tech®	Multipurpose adjuvant with a neutral pH ideally used with sulfonyl urea & other pesticides that require a neutral pH and higher.
MISSILE	Leci-Tech®	Built specifically for Enlist tank mixes and featuring our industry leading MSO Concentrate with Leci-Tech and a robust water conditioning package.
MSO® Concentrate with LECI-TECH®	Methylated Seed Oil	Highest quality MSO with the additional benefits of Leci-Tech technology providing drift control and improved crop safety.
REFORM	Synergist	An insecticide synergist designed specifically to work with pyrethroids to provide greater insect control.
±STRIKE FORCE®	Leci-Tech®	Drift reduction, droplet retention, penetration, water conditioner with no AMS, defoamer, bulk handling capabilities
VADER®	Leci-Tech®	A unique, proprietary adjuvant designed to aid in the delivery and deposition of insecticidal (ex. imidacloprid) sprays powered by Leci-Tech chemistry.
WEATHER GARD COMPLETE	Leci-Tech®	Premium adjuvant partner for glyphosate which includes water conditioner, defoamer and all the additional benefits from Leci-Tech.

Crop Protection

PRODUCT	CATEGORY	ACTIVE INGREDIENT(S)	ADJUVANT RECOMMENDATION	RESTRICTED USE PESTICIDE
CLEAN AMINE®	Herbicide	Clear 4# Amine with low odor	LI 700® or Liberate®	No
±COLT® AS	Cereal Herbicide	Fluroxypyr + Clopyralid	LI 700® or Liberate®	No
±COLT® + SALVO®	Cereal Herbicide	Fluroxypyr + 2,4/D Ester	LI 700® or Liberate®	No
±COLT® + SWORD®	Cereal Herbicide	Fluroxypyr + MCPA	LI 700® or Liberate®	No
FORTITRI	Herbicide	Saflufenacil, Dimethenamid, Pyroxasulfone	LI 700® or Liberate®	No
±HAT TRICK®	Cereal Herbicide	Fluroxypyr + Clopyralid + MCPA	LI 700®	No
INTENSITY ONE®	Herbicide	Clethodim with Leci-Tech	MSO® Concentrate with LECI-TECH®	No
±INTIMIDATOR®	Herbicide	S-Metolachlor + Fomesafen + Metribuzin	Infuse®, Liberate®, or LI 700®	No
INVERTID®2F	Insecticide	Methoxyfenozide with Leci-Tech	LI 700® or Valid®	No
MAGISTRATE®	Fungicide	Prothioconazole + Trifloxystrobin + Azoxystrobin	Franchise®	No
MAKAZE®	Herbicide	Loaded Glyphosate with Leci-Tech	Weather Gard Complete	No
MAKAZE K	Herbicide	Potassium Salt Glyphosate + Leci-Tech	Liberate or LI 700 + Choice Trio	No
±MATADOR-S	Herbicide	S-Metolachlor + Metribuzin + Imazethapyr	Infuse®, Liberate®, or LI 700®	No
MONGOOSE®	Herbicide	Lactofen	LI 700®	No
±POTENZA®	PGR	Mepiquat + IBA + Kinetin	LI 700®	No
PROTOCOL®	Fungicide	Thiophanate-methyl + Propiconazole	Liberate®	No
REAPER® CLEARFORM®	Insecticide	Low VOC Abamectin	LI 700®	Yes
SABER®	Herbicide	Glycol based 4# Amine	Choice® Weather Master	No
±SALVO®	Herbicide	Premium 2,4/D Ester	LI 700® or Liberate®	No
SATORI®	Fungicide	Azoxystrobin with Leci-Tech	Liberate® or Franchise®	No
±SNIPER® LFR	Insecticide	Bifenthrin with Liquid Fertilizer Ready	LI 700®	Yes
SNIPER HELIOS®	Insecticide	Bifenthrin with Helios	LI 700® or Liberate®	Yes
SWAGGER®	Insecticide	Bifenthrin + Imidacloprid	Vader®	Yes
±SWORD®	Herbicide	Concentrated MCPA	LI 700® or Liberate®	No
TOMBSTONE® HELIOS®	Insecticide	Cyfluthrin with Helios	LI 700®	Yes
TOP GUN®	Herbicide	Fomesafen	Liberate®	No
TRIBAL™	Herbicide	S-Metolachlor + Metribuzin + Sulfentrazone	Infuse®, Liberate®, or LI 700®	No
WHITEOUT®	Herbicide	Solventless Ester	LI 700® or Liberate®	No

± This product is not approved in CA or intended to be used CA with a pesticide product or pesticide spray mixture and cannot be used as a spray adjuvant. *Not registered in Arkansas.
Always read and follow label directions. Some plant nutrition and crop protection products may not be registered for sale or use in all states. Please check with your state agency to ensure registration status.

Assessing Crop Stands

As your crops emerge, evaluating the stand is important to identify problems from planting, insects, or disease. Evaluating your stands early can help you identify concerns while there may be time to remedy them.

Three common methods for taking stand counts are outlined below. The 1/1000th acre method is widely used for corn and wide-row soybeans. A more accurate method is the wheel method, which counts 150 plants and measures the distance from start to finish with a measuring wheel. The hoop method is often used for drilled beans.

When evaluating a corn or soybean stand, only count plants that have a good chance of survival. Keep in mind that while corn plant populations are a critical component of yield, soybean plants are better able to compensate for low plant populations.

Source: Purdue Corn & Soybean Field Guide.

1/1000th Acre Method

For Rows

Count the number of plants in a length of row equal to 1/1000th of an acre based on row width (Table 1). Multiply the number of plants by 1,000 to get plants per acre. Repeat the process in several locations in the field.

Table 1. Stand count evaluation for 1/1000th acre based on row width and number of plants in a given row length.

Table 1. 1/1000th Acre Method	
Row Width (inches)	Row Length 1/1,000th acre (feet, inches)
7	74' 8"
10	52' 3"
15	34' 10"
20	26' 2"
22	23' 10"
30	17' 5"
36	14' 6"
38	13' 10"
40	13' 1"

Wheel Method

For Drilled Crops

Count 150 plants and measure the distance from start to finish with a measuring wheel. Divide the number of feet traveled into the appropriate factor in Table 2 to determine plant population. For example, if you walked 94 feet while counting 150 plants in 30-inch rows, the population is $2,613,600 \div 94 = 27,804$ plants per acre.

Table 2. Stand count evaluation factors, by row width, for measuring the distance when counting 150 plants.

Table 2. Wheel Method	
Row Width (inches)	Factor
20	3,920,400
30	2,613,600
36	2,178,000
38	2,063,350

Hoop Method

For Drilled Crops

Measure the diameter of the hoop, toss it in the field, and count the number of plants inside the hoop. Do this in at least 5 locations in the field. Multiply the average number of plants by the appropriate factor listed in Table 3 to get the number of plants per acre. Notice that having a diameter of 28 1/4" allows you to simply multiply by 10,000 to obtain the number of plants per acre. This size of hoop can be made by cutting anhydrous tubing to 88 3/4 inches and joining it to form a circle.

Table 3. Stand count evaluation factors, by hoop diameter, for determining soybean plant populations using the hoop method.

Table 3 Hoop Method	
Diameter of Hoop (inches)	Factor
18	24,662
21	18,119
24	13,872
27	10,961
28 1/4	10,000
30	8,878
33	7,337
36	6,165

Water Requirements

Normal days to maturity and water requirements between various stages of growth and maturity

State of Growth	Avg. Days to Maturity	Water Use to Maturity
CORN		
Planting	125	22.0"
Blister	45	10.5"
Dough	34	7.5"
Full Dent	13	2.5"
Mature	0	0.0"
SOYBEANS		
Full Pod	42	11.0"
Beginning Fill	31	7.5"
Full Pod Fill	18	3.5"
Maturity	0	0.0"
GRAIN SORGHUM		
Half Bloom	34	9.0"
Soft Dough	23	5.0"
Hard Dough	12	2.0"
Mature	0	0.0"

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Seeds Per Acre, Row Width Chart

Approximate number of seeds/plants per acre at varying row widths and spacing in the row

Seed Spacing in the Row (in.)	# Seeds/Plants in One Foot Row	# of Seed / Plants per Acre by Row Width				
		Row Width (in.)				
		7	14	20	24	28
1	12.0	896,000	448,000	314,000	261,000	224,000
1.5	8.0	598,000	299,000	209,000	174,000	149,000
2	6.0	448,000	224,000	155,000	131,000	112,000
3	4.0	298,000	149,300	104,000	87,100	74,800
4	3.0	224,000	112,000	78,400	65,300	56,000
5	2.4	179,000	89,600	62,700	52,300	44,900
6	2.0	149,000	74,700	52,400	43,600	37,300
7	1.7	217,000	63,500	44,400	37,000	31,700
8	1.5	112,000	56,000	39,100	32,700	28,000
9	1.3	99,300	49,700	34,800	29,000	24,800
10	1.2	89,600	44,800	31,400	26,100	22,400
11	1.1	81,400	40,700	28,500	23,700	20,400
12	1.0	74,700	37,300	26,100	21,800	18,700

Seed Spacing in the Row (in.)	# Seeds/Plants in One Foot Row	# of Seed / Plants per Acre by Row Width				
		Row Width (in.)				
		30	32	36	38	40
1	12.0	209,000	196,000	174,000	165,000	157,000
1.5	8.0	139,000	131,000	116,100	110,000	104,000
2	6.0	104,000	98,000	87,100	82,500	78,400
3	4.0	69,700	65,400	58,000	55,000	52,300
4	3.0	52,200	49,000	43,500	41,300	39,200
5	2.4	41,800	39,200	34,800	33,000	31,400
6	2.0	34,800	32,700	29,000	27,500	26,100
7	1.7	29,600	27,800	24,700	23,400	22,200
8	1.5	26,100	24,500	21,800	20,600	19,600
9	1.3	23,100	21,700	19,300	18,300	17,400
10	1.2	20,900	19,600	17,400	16,500	15,700
11	1.1	19,000	17,800	15,800	15,000	14,300
12	1.0	17,400	16,300	14,500	13,800	13,100

Basic Seeding Rates

*Average Seeding Rates, Weight per Bushel, Seeds per Pound

Crop	Weight per Bushel	Avg. # Seeds per lb.	Avg. Seeding Rate per Acre (lb.)	Avg. Seeding Rate Seeds / acre	# Seeds
Corn - good moisture	56.0	1,400	23	32,200	1.8 /foot 30" row
Corn - dryland	56.0	1,400	14	19,600	1.3 /foot 36" row
Soybeans 30" row	60.0	2,800	60	165,000	9.4 /foot row
10" row	60.0	2,800	56	185,000	3.4 /foot row
20" row	60.0	2,800	56	185,000	7.1 /foot row
36" row	60.0	2,800	56	165,000	11.3 /foot row
Alfalfa - straight seeded	60.0	199,000	18-22	3,582,000	82.2 /sq ft.
Alfalfa - w cover crop	60.0	199,000	12-15	2,786,000	64.0 /sq ft.
Cotton - 38" row	32.0	5,500	8-9	45,000	3.4 /foot row
Cotton - 30" row	32.0	5,500	9-11	55,000	3.1 /foot row
Wheat - hard red spring	60.0	14,300	60-120	85,800-1,716,000	17.5-40 /sq ft.
Wheat - hard red winter	60.0	14,500	75	1,087,500	25 /sq ft.
Wheat - soft red winter	60.0	13,500	125-150	1,500,000-2,000,000	35-46/sq ft.
Oats	32.0	15,500	80	1,240,000	28.5 /sq ft.
Sorghum Grain - good moisture	56.0	17,000	8-10	170,000	9-10 /foot row
Sorghum Grain - dryland	56.0	17,000	4-6	85,000	4-5 /foot row
Sorghum Forage - 30" row	50.0	25,000	8-12	250,000	5-6 /sq ft.
Sudangrass Sorghum - 7" row	40.0	19,000 -22,000	25-40	1,512,500	38 /sq ft.
Canola - spring	60.0	142,400	5-6	783,200	18 /sq ft.
Canola - winter	60.0	156,960	5-6	863,280	20 /sq ft.
Red Clover - straight seeded	60.0	252,000	8-10	2,268,000	50 /sq ft.
Sweet Clover	60.0	250,000	12-15	3,375,000	75-80 /sq ft.
Millet - foxtail	48.0	218,000	15	3,270,000	73-76 /sq ft.
Proso	56.0	65,000	20	1,300,000	30 /sq ft.
Orchardgrass	14.0	590,000	14	7,965,000	180 /sq ft.
Kentucky Bluegrass	14.0-28.0	2,200,000	15-25	44,000,000	1000 /sq ft.
Fescue - tall	24.0	225,000	15	3,375,000	75-80 /sq ft.
Fescue - red or creeping	15.0-40.0	545,000	20-30	12,262,500	280-300 /sq ft.

*Seeding rates will vary by geography, field, and management practices

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Replant Decisions

Corn

Replant decisions are never easy and are ultimately determined by which decision provides the greatest net income.

Each field will have its own set of circumstances that will influence the decision. Assessment of remaining stand and potential replant date will be critical.

For various reasons -- weather, soil, crusting, insects, or diseases -- poor crop stands sometimes occur, requiring a replant decision. The issue is whether a late-planted crop at a non-guaranteed population level will produce a higher net income than an early-planted, less than desired stand.

Once again, stand assessment will be important to determine if the damage will be economic. Young corn plants (<V5 stage of development) can tolerate significant leaf damage and loss and yet remain viable and produce new leaves. This is because the growing point remains below the soil surface until approximately the V6 stage.

However, flooded areas in fields also may cause stand losses. Small corn plants are not tolerant of flooding and may succumb to this condition in one to three days. Warm, sunny days may accelerate these losses. Soybeans show slightly better tolerance to flooding but still will not tolerate this condition very long.

There is a decided yield penalty for delayed planting. The tables below can be used for general replant guidelines with the most recent data on stand levels and planting dates. Although growing season, location, hybrid and other factors may cause some variation

in the data, the information in the table will serve as a good starting point for making replant decisions.

Attempts to "thicken" stands by inter-seeding directly into an existing stand generally result in additional complications. Larger plants compete strongly for space, water and nutrients and complicate subsequent management decisions.

Thus, it is always recommended to completely destroy the original stand and start over if a replant is warranted. If the original stand is adequate, leave it alone and be willing to accept it as is.

As an example, in the corn chart, if you planted at the optimum time for your area and anticipated a final stand of 27,500 plants per acre, you might expect to achieve 95% maximum yield. If, at a later date, you find that the stand is only 19,000 plants per acre, your yield expectation is 78% of maximum. This is a 17% yield loss due to stand reduction.

If you can replant 20 days later than optimum and actually achieve a 30,000 plant population, yield prospects would be 90% of maximum. This is a 12% (90-78) gain in favor of replanting over leaving the older, reduced stand. Will a 12% increase pay the replanting costs and provide something to cover the risks of replanting? Also strongly consider additional weed competition from a reduced stand, the health of surviving plants and uniformity of the existing stand when making a replant decision, the charts are based upon uniform stand distribution and healthy plants.

Another major consideration that goes hand-in-hand with making a replant decision is whether or not a hybrid change is needed, or

perhaps a change to an alternate crop such as soybeans. Switching to an earlier maturing corn hybrid can be done at any time if so desired. Hybrid and planting date studies suggest that if planting is delayed by 20-30 days past optimum move to a five day earlier hybrid. If the seeding delay is greater than 30 days consider a 10 day earlier hybrid or switching to another crop. Double check to ensure safety from herbicide carryover.

Soybeans

Soybean plants readily compensate for stand variations. Usually a 50% stand, if planted at a normal time, will not justify replanting. When replanting or double cropping soybeans, switching to a "too early" variety can be costly. Because soybeans are day-length sensitive, adapted medium-full season maturities can be planted until about 20 days later than optimum planting dates. After that date, adapted medium maturity varieties for your area should be planted. In the Midwest, medium maturity soybeans can be planted up until around July 5 and be expected to mature in a normal growing season.

Varieties earlier than this will not mature faster and will not grow to adequate height and also pod very low, making harvest very difficult. For replant or double crop production, narrow row spacing and increased plant populations are desirable.

Do not rush into replanting without careful assessment of all the factors involved, patience normally favors leaving the existing stands in most situations.

Planting Date	Plants Per Acre						
	19,000	21,000	22,000	25,000	27,500	30,000	32,500
	Percent of yield						
Optimum – Normal	78	83	88	92	95	100	100
10 days later	75	81	86	90	93	96	98
20 days later	69	75	80	84	87	90	92
30 days later	59	64	69	73	77	80	81

*Assumes reasonably uniform stands

CORN yields at various planting dates and stand levels, expressed as a percentage of the optimum stand and date

Percent of Desired Population*	Planting Date		
	Optimum	20 days later	30 days later
	Percent of Yield		
100	100	92	73
80	92	83	57
50	88	73	48

*Assumes reasonably uniform stands

SOYBEAN yields at various planting dates and stand levels, expressed as a percentage of the optimum stand and date

Plant Food Utilization

Crop	Unit	Plant Food Uptake*			Plant Food Removed		
		N	P2O5	K2O	N	P2O5	K2O
Corn	lb/bu	1.33	0.57	1.33	0.75	0.44	0.29
Corn Silage	lb/ton	8.30	3.60	8.30	8.30	3.60	8.30
Soybean	lb/bu	5.40**	1.06	2.36	4.00**	0.80	1.40
Alfalfa	lb/ton	60.00**	15.00	60.00	56.00**	15.00	60.00
Cotton (lint)	lb/cwt	12.00	4.33	8.33	7.00	2.67	3.00
Grain Sorghum	lb/cwt	3.12	1.12	2.50	1.50	0.75	0.38
Grain Sorghum	lb/bu	1.75	0.63	1.40	0.84	0.42	0.21
Forage Sorghum	lb/ton	25.00	8.00	35.00	25.00	8.00	35.00
Sorghum-Sudan	lb/ton	40.00	15.00	60.00	40.00	15.00	60.00
Wheat	lb/bu	1.67	0.67	2.02	1.15	0.55	0.34
Sunflower	lb/cwt	5.20	2.00	3.65	3.60	1.70	1.10

Source: Potash and Phosphate Institute

* Plant Food Uptake in Harvest Portion

** Legumes convert most of their Nitrogen requirements from the air.

Figures given are total amounts taken up by the crop in both the harvested and the above ground unharvested portions. These numbers are estimates for indicated yield levels, taken from research studies, and should be used only as general guidelines.

Approximate Nitrogen Produced from Previous Crop:

Soybeans: Normal Yield = 45-55# of N, Low Yield = 15-25# of N

Alfalfa: Good Stand = 80-110# of N, Poor Stand = 30-50# of N

Other Legumes: Good Stand = 50-70# of N depending on the crop

Sorghum: If residues are incorporated into the soil an additional 30-40# of N should be applied.

Approximate Fertility Removed from Previous Corn Crop Per

Bushel Produced:

Grain: 0.75# N, 0.44# P, 0.29# K, 0.06# Mg, 0.02# Ca, 0.07# S

Silage: 1.50#N, 0.60# P, 1.30# K, 0.20# Mg, 0.21# Ca, 0.16#S

Best Crop Response Related to pH Levels

Range

Continuous Corn (No Alfalfa-Clover) 6.1 - 6.6

Corn/Soybean rotation (No Alfalfa-Clover) 6.3 - 6.9

Soybeans 6.0 - 7.5

Alfalfa & other legumes 6.6 - 7.5

Cotton 5.5 - 7.0

Grain Sorghum (milo) 5.5 - 7.0

Forage Sorghum 5.5 - 7.0

Wheat 6.0 - 7.0

Economic Thresholds for Weeds

Weed	% Corn Yield Loss					
	1	2	4	6	8	10
	Number of weed clumps per 100 feet of row					
Cocklebur	4	8	16	28	34	40
Giant ragweed	4	8	16	28	34	40
Pigweed	12	25	50	100	125	150
Lamb's quarters	12	25	50	100	125	150
Sunflower	6	12	25	50	62	75
Giant foxtail*	10	20	50	100	150	200
Shattercane**	6	12	25	50	75	100
Volunteer corn	-	-	4	8	12	16

* 5 to 8 stems per clump

** 2 to 3 stems per clump

Weed	% Soybean Yield Loss					
	1	2	4	6	8	10
	Number of weed clumps per 100 feet of row					
Cocklebur	1	2	4	6	8	10
Giant ragweed	1	2	4	6	8	10
Pigweed	2	4	6	10	15	20
Lambs quarters	2	4	6	10	15	20
Velvetleaf	8	16	24	32	40	50
Morning glory	8	16	24	32	40	50
Jimsonweed	8	16	24	32	40	50
Smartweed	8	16	24	32	40	50
Sunflower	1	2	3	5	8	10
Giant foxtail*	5	10	17	25	32	44
Shattercane**	2	5	8	11	14	18
Volunteer corn	1	2	3	4	5	6

Source: University of Illinois

Calculating Grain Yields

Grain Yield = (100-moisture) x (lbs. of grain) x (factor for crop) / (Row length in feet) / (Row width in inches) / (Number of rows)

Crop	Factors	Yield Corrected to % Moisture
Corn	109.815	15.0%
Soybeans	100.138	13.0%
Grain Sorghum	108.538	13.0%
Sunflowers	5805	10.0%
Wheat	100.176	13.5%
Corn Silage	7.467	70.0%

Growing Degree Days

$\frac{T. \text{ Max} + T. \text{ Min}}{2} \text{ minus } 50 = \text{GDD}$

2

T. Max is the maximum temperature during the day and T. Min is the minimum. Fifty degrees F is substituted for the minimum temperature when it falls below 50° F, and 86° is substituted for the maximum when it rises above 86° F.

Example: If the high is 90 degrees F and the low is 70 degrees F:

$(86 + 70) / 2 - 50 = (156 / 2) - 50 = 78 - 50 = 28 \text{ GDU's}$

Notes

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Notes

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