

2027 SEED CATALOG



DYNAGRO[®]
SEED

HOME-FIELD ADVANTAGE.

Knowing the conditions and working in familiar surroundings with local support; it's a fact, the home team wins more often - and we've got the stats to prove it.

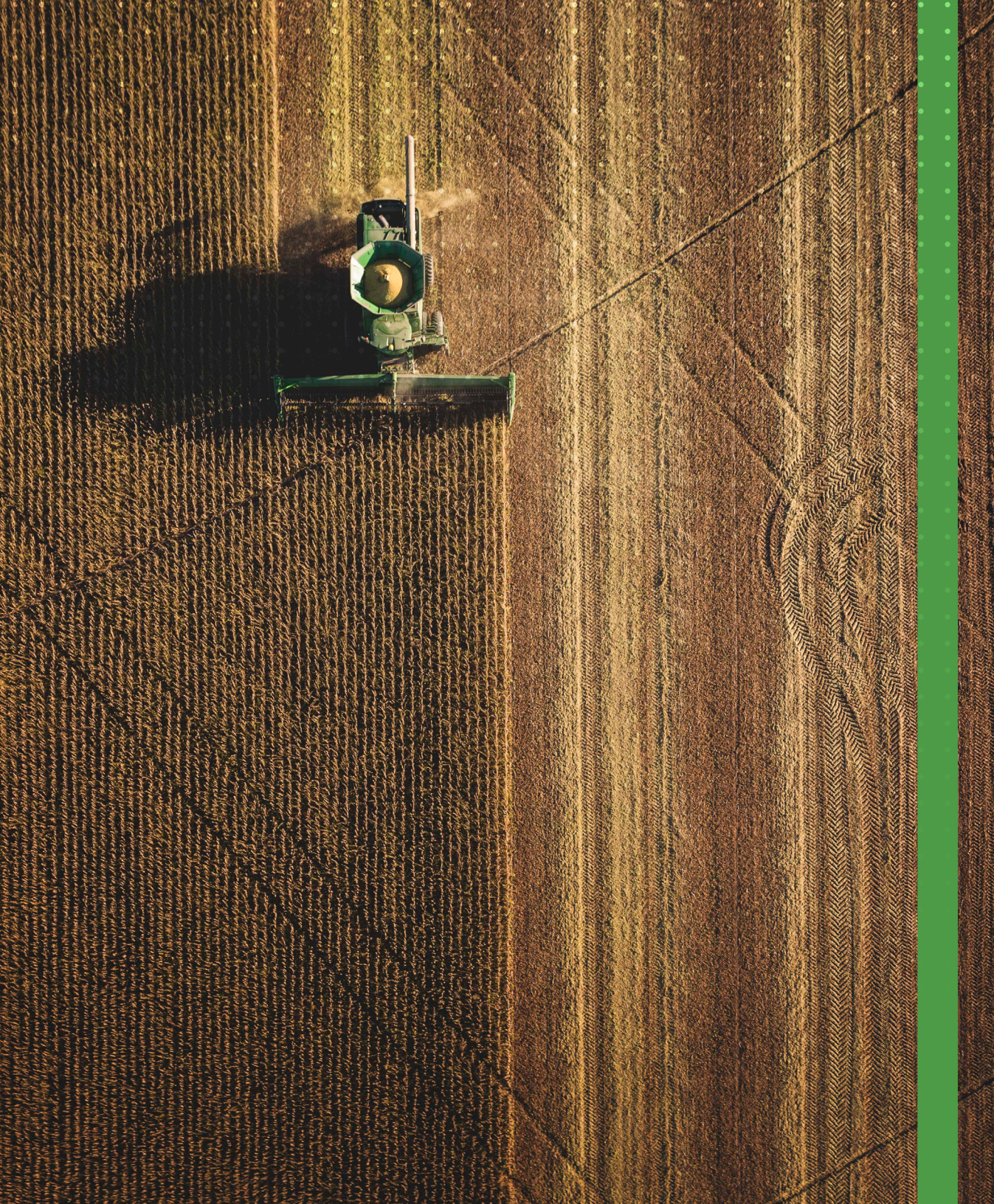
Localized trial results and regional expertise, Dyna-Gro offers over 30 years of experience producing innovative seed solutions designed to maximize the local acre and help you make the best decision for your farm.

Learn more at
DynaGroSeed.com

Available through:

Nutrien
Ag Solutions®

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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 milklake 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
 TRE = Trecepta® Corn
 TRE-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
 PCE = PowerCore® Corn insect technology with Enlist® herbicide technology
 PCE-RA = PowerCore® Corn 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®
 PN = PowerCore® Enlist®
 QC = Agrisure Viptera® 3110
 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: D52TC66RIB = Corn, 112 day, Trecepta® RIB Complete® Corn Blend, D52TC66 family

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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® Corn	Roundup Ready® Corn 2	SmartStax® Corn	Trecepta® Corn	Viptera® Refuge Renew	VT Double PRO® Corn	VT4PRO™ with RNAI Technology Corn	Available as a Blended Refuge
CC	RM	3110	GT	VT2P	DV	PN	RR2	SS	TC	V	VT2	VT4P	Yes / No
	74										D14VC45		Yes
	79						D19RR89						No
	80										D20VC24		Yes
	83										D23VC83		Yes
	85										D25VC66		Yes
	86										D26VC64		Yes
	87										D27VC87		Yes
	88										D28VC33		Yes
	89										D29VC85		Yes
	90										D30VC47		Yes
	91										D31VC23		Yes
	91											D31VT67	Yes
	93												Yes
D34CC52	94						D34RR52				D34VC52		Yes
	94							D34SS93			D34VC93		Yes
	96										D36VC66		Yes
	96												Yes
	97					D37PN35							Yes
	97								D37TC76				Yes
	97										D37VC37		Yes
	98										D38VC80		Yes
	99											D39VT75	Yes
D39CC43	99			D39DC43									Yes
	100										D40VC46		Yes
	100										D40VC41		Yes
	101												Yes
	103							D43SS81			D43VC81		Yes
	103												Yes
D44CC25	104					D44PN25							Yes

Red = New Commercial Release

* Relative Maturity will vary with Trait Conversion

CORN TECHNOLOGY CONVERSION CHART

Base Genetics	Relative Maturity*	Agrisure Viptera® 3110	Agrisure® GT	DroughtGard® Hybrids with VT Double PRO® Corn	DuracadeViptera™	PowerCore® Enlis® Corn	Roundup Ready® Corn 2	SmartStax® Corn	Trecepta® Corn	Viptera® Refuge Renew	VT Double PRO® Corn	VT4PRO™ with RNAI Technology Corn	Available as a Blended Refuge
CC	RM	3110	GT	VT2P	DV	PN	RR2	SS	TC	V	VT2	VT4P	Yes / No
	104							D44SS54					Yes
	104			D44DC73									Yes
D44CC56	104					D44PN56							Yes
	105												To
	103								D43TC57				Yes
	105								D45TC55				Yes
	108										D48VC84		Yes
	108							D48SS50					Yes
	109												Yes
	109					D46PN97							Yes
	109					D48PN87							Yes
D49CC05	109					D49PN05							Yes
D50CC07	110					D50PN07							Yes
	109												Yes
	110												Yes
	110										D50VC09		Yes
	111										D51VC95		Yes
	112											D52VT96	Yes
	112								D52TC66				Yes
D52CC76	112					D52PN76							Yes
	112			D52DC82				D52SS82					Yes
	112							D52SS91					Yes
	113										D53VC54		Yes
	113												Yes
	113												Yes
	113								D53TC23				Yes
	114						D54RR14				D54VC14		Yes
	114							D54SS74					Yes
	114							D54SS34			D54VC34		Yes

Red = New Commercial Release

* Relative Maturity will vary with Trait Conversion

CORN TECHNOLOGY CONVERSION CHART

Base Genetics	Relative Maturity*	Agrisure Viptera® 3110	Agrisure® GT	DroughtGard® Hybrids with VT Double PRO® Corn	DuracadeViptera™	PowerCore® Enlist® Corn	Roundup Ready® Corn 2	SmartStax® Corn	Trecepta® Corn	Viptera® Refuge Renew	VT Double PRO® Corn	VT4PRO™ with RNAi Technology Corn	Available as a Blended Refuge
CC	RM	3110	GT	VT2P	DV	PN	RR2	SS	TC	V	VT2	VT4P	Yes / No
	114								D54TC77				Yes
D55CC86	115								D55TC86		D55VC86		Yes
D55CC80	115										D55VC80		Yes
	116						D56RR44		D56TC44				Yes
	117								D57TC29				Yes
	117										D57VC75		Yes
D57CC51	117						D57RR51						No
	117										D57VC51		Yes
	118						D58RR94		D58TC94				No
	118										D58VC65		Yes
	118						D58RR74						No
	118							D58SS65					Yes
	118	D58QC72											No
	118										D58VC74		Yes
D60CC45	120								D60TC45				Yes

The 2025-2026 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

OUR INPUT
FINANCING SOLUTIONS

+ A CUSTOM
PROTECTION PROGRAM

x PREPARING 2 KIDS
FOR COLLEGE

= FINANCING THAT
GETS FARMING

The equation is
different with us.



NUTRIEN
FINANCIAL™



SCAN THE QR
CODE, OR CLICK,
TO DISCOVER
FINANCING OPTIONS
TODAY!

Corn Seed Treatments

2023 Launch Class and Older

2024 Launch Class and Newer



Lumiscend[®] Pro

FUNGICIDE SEED TREATMENT

Lumialza[®]

NEMATOCIDE SEED TREATMENT

Lumisure[®]

INSECTICIDE SEED TREATMENT

D19RR89 D38VC80RIB D50VC09RIB D54SS74RIB
 D23VC83RIB D39CC43 D51SS61RIB D54VC14
 D25VC66RIB D39DC43RIB D52CC63 D54VC14RIB
 D28VC33RIB D40VC41RIB D52DC82RIB D54VC34
 D31VC23RIB D41SP23RIB D52SS82RIB D54VC34RIB
 D34CC52 D44DC73RIB D52SS91RIB D55CC80
 D34SS93RIB D44SS54RIB D52VC91RIB D55VC80
 D34VC93RIB D45SP33RIB D53CC13WX D55VC80RIB
 D35VC66RIB D45TC55RIB D53TC23RIB D57CC51
 D48SS50RIB D53VC33RIB D57RR51
 D48VC84RIB D54RR14 D57TC29
 D49SP83RIB D54SS34RIB D57TC29RIB
 D57VC51
 D57VC51RIB
 D57VC53
 D57VC53RIB
 D57VC75
 D57VC75RIB
 D58SS65
 D58SS65RIB
 D58VC22
 D58VC65RIB

D14VC45RIB D33SP06RIB
 D20VC24RIB D36SP96RIB
 D26VC64RIB D37TV76RIB
 D29VC85RIB D37VC37RIB
 D30VC47RIB D40VC46RIB
 D41TC74RIB D43SP26RIB
 D50SP65RIB D43TC57RIB
 D51VC95RIB D49SP06RIB
 D53SP85RIB D52TC66
 D53VC54RIB D52TC66RIB
 D56RR44 D53SP37RIB
 D56TC44 D54TC77
 D56TC44RIB D54TC77RIB
 D58RR74 D55TC86
 D58RR94 D55TC86RIB
 D58TC94
 D58VC74
 D68VC74RIB
 D60TC45
 D60TC45RIB

D31VT67RIB
 D39VT75RIB
 D52VT96RIB

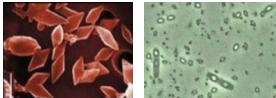
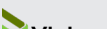
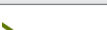
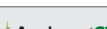
D37PN35RA
 D44CC25
 D44PN25RA
 D44PN56RA
 D46PN97RA
 D48PN87RA
 D49CC05
 D49PN05RA
 D50CC07
 D50PN07RA
 D52PN76RA

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	XXX	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 Viptera® 3110	X	X		X	X		20% within 1/2 mile
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® Corn Seed Blend	TRE	Cry1A.105, Cry2Ab2, Vip3A	5% - Structured Adjacent	20% - Structured within 1/2 Mile
TC		Trecepta® RIB Complete® Corn Seed Blend	TRE-RIB	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™ RIB Complete® Corn Seed Blend	VT4PRO	Cry1A.105, Cry2Ab2, Vip3A, Cry3Bb1, DvSnf7, dsRNA, includes RNAi Technology	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®	PCE	Cry1A.105, Cry2ab, CryIF	5% - Structured within 1/2 Mile	20% - Structured Adjacent
PN-RA		PowerCore® Enlist® Refuge Advanced®	PCE-RA	Cry1A.105, Cry2ab, CryIF	5% - Structured within 1/2 Mile	20% - Structured Adjacent
CC	Conventional	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	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	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:

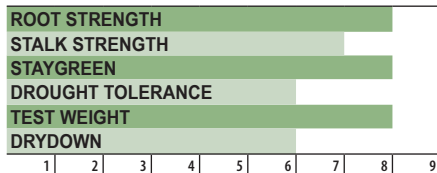
For best control of high population rootworm following corn-on-corn fields, use a dual mode in plant protection B.t. such as SmartStax® or SmartStax® PRO combined with a planting time insecticide or apply a beetle control the previous season.

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.

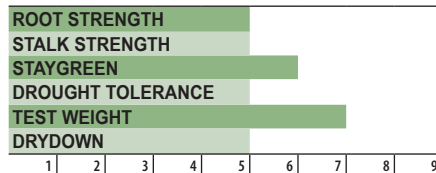
	PRODUCT						PLANTING		GROWTH							
	Dyna-Gro Brand	RM	Technology	Available Refuge Blend	Hybrid Family	GDU	Planting Population	Emergence	Seedling Vigor	Plant Height	Ear Height	Ear Flex	Drought Tolerance	Greensnap	Stalk Strength	
	D14VC45RIB	74	VT2P-RIB	Yes	D14VC45	1894	N/A	7	7	M/T	MH	Semi-Det	6	7	7	
	D19RR89	79	RR2	No	D19VC89	1950	28-32	6	7	M	M	Semi-Flex	7	7	7	
	D20VC24RIB	80	VT2P-RIB	Yes	D20VC24	2020	32-36	7	5	M/T	MH	Semi-Flex	5	5	5	
	D23VC83RIB	83	VT2P-RIB	Yes	D23VC83	2060	28-34	7	8	M/S	M	Semi-Flex	6	7	8	
	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	2070	32-36	7	7	M	M	Semi-Flex	5	5	7	
	D28VC33RIB	88	VT2P-RIB	Yes	D28VC33	2090	32-38	7	7	M/S	ML	Semi-Flex	8	7	7	
	D29VC85RIB	89	VT2P-RIB	Yes	D29VC85	2090	N/A	8	8	M	M	Semi-Flex	8	6	7	
NEW	D30VC47RIB	90	VT2P-RIB	Yes	D30VC47	2150	30-38	8	8	M/T	M	Semi-Flex	8	7	7	
	D31VC23RIB	91	VT2P-RIB	Yes	D31VC23	2290	32-38	7	8	M/T	M	Semi-Flex	6	7	7	

74 RM Available RIB: Yes D14VC45RIB Brand



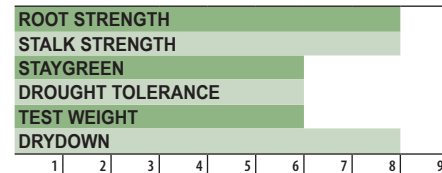
- Hybrid with solid agronomics for northern movement
- Very good early season vigor and germination for quick stand establishment
- High eye appeal in season with nice late season intactness
- Strong foliar disease package

80 RM Available RIB: Yes D20VC24RIB Brand



- 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 Available RIB: Yes D23VC83RIB Brand



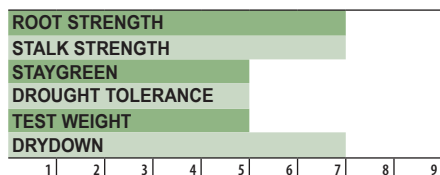
- Widely adapted across 80-85 RM zone with top yield potential
- Medium-short plant with good early vigor and early flowering
- Very good Goss's wilt tolerance and good northern leaf blight
- Good standability with very good stalks and roots
- Adapted to variable and ideal soils

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	Anthracnose	Leaf Anthracnose	Dyna-Gro Brand	
8	8	6	8	Adequate	N/A	No		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	No		4	5	6	7	6	5	7	4	8	N/A	D20VC24RIB	
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	D25VC66RIB	
7	5	7	5	Adequate	N/A	No		6	5	5	7	7	5	7	4	6	N/A	D26VC64RIB	
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	No		5	5	6	7	7	4	8	5	5	6	D29VC85RIB	
8	7	6	7	Long	R	No		6	8	8	8	7	6	7	6	8	8	D30VC47RIB	
7	6	6	7	Adequate	R	No		7	7	7	N/A	N/A	5	7	N/A	7	7	D31VC23RIB	

86 RM Available RIB: Yes

D26VC64RIB Brand

CORN

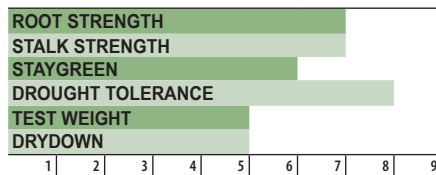

VTDoublePRO
 RIB COMPLETE

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

89 RM Available RIB: Yes

D29VC85RIB Brand

CORN

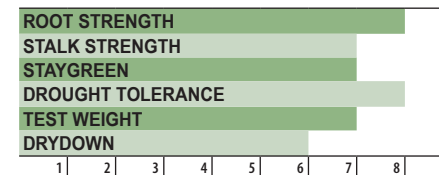

VTDoublePRO
 RIB COMPLETE

- 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

90 RM Available RIB: Yes

D30VC47RIB Brand

NEW CORN


VTDoublePRO
 RIB COMPLETE

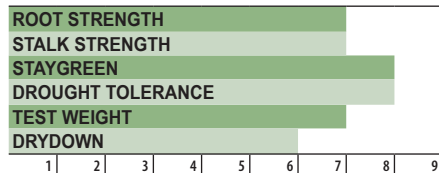
- Very consistent performer across year and environments
- Strong emergence and excellent early vigor
- Responsive to increased fertility, best adapted in zone and north
- Solid agronomics allow for broad longitudinal placement

	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	D31VT67RIB	91	VT4P-RIB	Yes	D31VT67	2240	30-38	8	8	M/T	MH	Semi-Flex	8	7	7	
	D33SP06RIB	93	SSP-RIB	Yes	D33SP06	2485	N/A	7	7	M/T	MH	Semi-Flex	6	7	7	
	D34CC52	94	Conventional	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	
	D34VC93RIB	94	VT2P-RIB	Yes	D34VC93	2387	34-38	8	8	M/T	MH	Semi-Flex	6	7	7	
	D36SP96RIB	96	SSP-RIB	Yes	D36SP96	2456	N/A	8	8	M	M	Semi-Flex	7	7	7	
	D36VC66RIB	96	VT2P-RIB	Yes	D36VC66	2350	34-38	7	8	M/T	MH	Semi-Flex	7	6	8	
	D37TC76RIB	97	TRE-RIB	Yes	D37TC76	2436	N/A	8	8	M/T	MH	Semi-Flex	7	7	7	
	D37PN35RA	97	PCE-RA	Yes	D37PN35	2400	30-36	7	7	M	M	Semi-Flex	6	7	7	
NEW	D37VC37RIB	97	VT2P-RIB	Yes	D37VC37	2365	30-36	7	6	M/T	M	Semi-Flex	8	7	7	

91 RM Available RIB: Yes

D31VT67RIB Brand

NEW
CORN



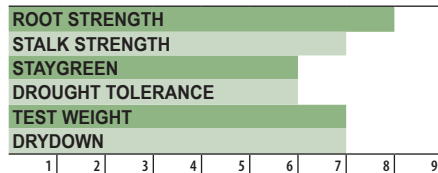
VT4PRO
RIB COMPLETE

- Broad acre option for low to moderate rootworm environments
- Very good Goss's wilt and greensnap rating allow western performance
- South of zone movement as an early option
- Above average tar spot ratings

93 RM Available RIB: Yes

D33SP06RIB Brand

CORN



SmartStax PRO
RIB COMPLETE

- Hybrid that brings good test weight and a semi-flex ear
- Good agronomic package with top end yield performance
- Dual purpose grain and silage potential

96 RM Available RIB: Yes

D36SP96RIB Brand

CORN



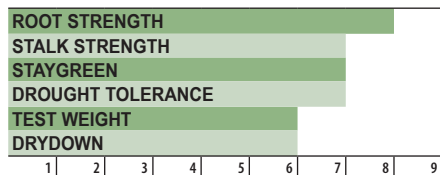
SmartStax PRO
RIB COMPLETE

- Hybrid that fits a broad footprint and all yield environments
- Brings good tolerance to tar spot, ASR and crown rot
- Attractive phenotype, easy placing hybrid

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	6	8	Adequate	R	No	6	6	6	8	8	6	7	5	8	7	D31VT67RIB		
8	7	7	6	Adequate	HR	No	6	6	7	9	8	5	8	5	9	8	D33SP06RIB		
8	8	7	8	Medium	NR	No	6	7	7	N/A	8	N/A	8	N/A	7	7	D34CC52		
6	6	6	6	Adequate	N/A	No	5	5	6	8	7	5	8	5	8	8	D34SS93RIB		
6	6	6	6	Adequate	HR	Yes	5	5	6	8	7	5	8	5	8	8	D34VC93RIB		
8	7	6	6	Adequate	HR	No	7	6	6	8	8	6	8	5	8	8	D36SP96RIB		
8	8	7	7	Adequate	HR	No	6	6	6	N/A	N/A	6	N/A	N/A	8	7	D36VC66RIB		
8	6	6	7	Adequate	N	No	5	8	5	8	8	6	8	5	8	8	D37TC76RIB		
7	5	5	7	Med-long	HR	No	5	5	5	N/A	N/A	6	N/A	N/A	7	N/A	D37PN35RA		
7	8	7	6	Adequate	R	No	6	8	6	7	7	6	7	7	7	7	D37VC37RIB		

97 RM D37TC76RIB Brand

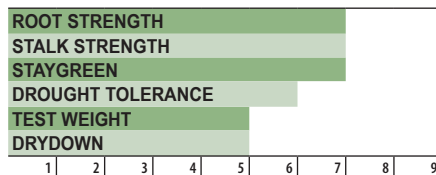
CORN

Trecepta
RIB COMPLETE

- Great emergence and early season vigor
- Agronomics will allow this corn to move west
- Good disease package with Ideal placement in moderate to high yield environment

97 RM D37PN35RA Brand

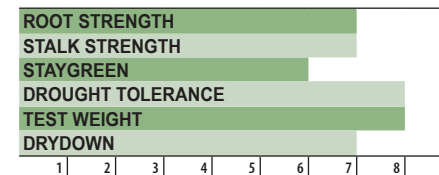
CORN

POWERCORE
Enlist
REFUGUE ADVANCED

- PowerCore® Enlist® corn 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 D37VC37RIB Brand

NEW CORN

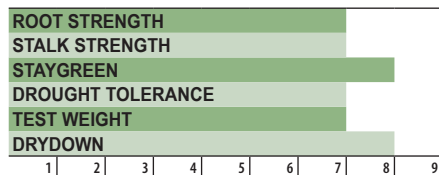
VTDoublingPRO
RIB COMPLETE

- All around performer with mix of top end potential and stress tolerance
- Solid emergence and early season vigor
- Strong roots and stalks
- Good grain quality and ear flex
- Good staygreen with average drydown

	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
	D38VC80RIB	98	VT2P-RIB	Yes	D38VC80	2390	30-38	7	8	M/T	M	Semi-Flex	7	7	6
	D39VT75RIB	99	VT4P-RIB	Yes	D39VT75	2419	30-36	7	7	M	M	Semi-Flex	7	7	7
	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
	D40VC46RIB	100	VT2P-RIB	Yes	D40VC46	2440	N/A	8	8	M	ML	Semi-Det	8	6	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	TRE-RIB	Yes	D41TC74	2555	34-36	5	5	M	M	Semi-Flex	7	6	7
	D43SP26RIB	103	SSP-RIB	Yes	D43SP26	2536	N/A	8	8	M/T	M	Semi-Flex	6	7	7
NEW	D43TC57RIB	103	TRE	Yes	D43TC57	2470	32-36	7	7	M	M	Semi-Flex	7	8	7
	D44PN56RA	104	PCE-RA	Yes	D44PN56	2610	N/A	8	8	M/T	MH	Flex	7	7	8

99 RM D39VT75RIB Brand

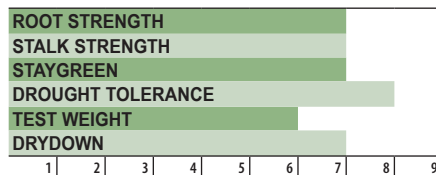
Available RIB: Yes

VT4PRO[®]
RIB COMPLETE

- VT4PRO[™] RIB Complete[®] corn 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 D40VC46RIB Brand

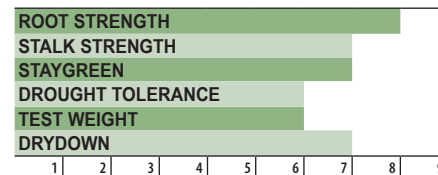
Available RIB: Yes

VTDoublePRO[®]
RIB COMPLETE

- Good emergence and early season vigor with above average crown rot tolerance
- Product with high yield potential and stability in drought situations
- Plant at higher plant populations for top end yield
- Fungicide recommended in tar spot area's but overall good disease package

103 RM D43SP26RIB Brand

Available RIB: Yes

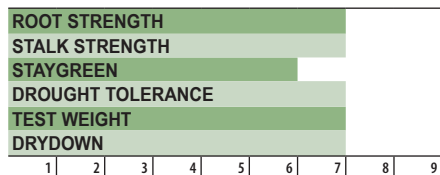
SmartStaxPRO[®]
RIB COMPLETE

- Tolerance to above average pH levels
- Best performance on moderate to high yield environments
- Excellent emergence and strong plant vigor, enabling early planting opportunities
- Semi-flex ears with impressive test weight and efficient drydown characteristics

		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		
7	7	7	8	Long	R	No	6	8	6	7	N/A	5	N/A	N/A	N/A	N/A	D38VC80RIB		
7	7	8	8	Adequate	NR	No	6	5	5	8	8	5	8	5	8	8	D39VT75RIB		
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		
7	6	7	7	Adequate	N	No	7	8	6	8	8	5	8	8	8	8	D40VC46RIB		
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	7	Long	N	No	6	8	7	8	8	5	8	5	8	8	D43SP26RIB		
7	7	8	6	Adequate	N	No	7	8	7	9	8	6	8	8	9	8	D43TC57RIB		
8	7	7	7	Adequate	HR	No	7	7	7	n/a	8	6	8	6	n/a	n/a	D44PN56RA		

103 RM D43TC57RIB Brand

Available RIB: Yes

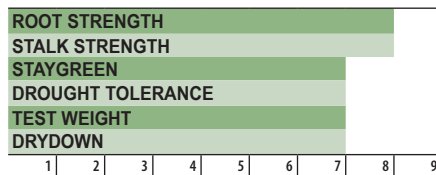
NEW
CORNTrecepta®
RIB COMPLETE

- Broad acre option with top tier yield potential
- Medium plant stature with a semi-flex ear
- Solid Goss' wilt and greensnap package allows western movement

104 RM D44PN56RA Brand

Available RA: Yes

CORN

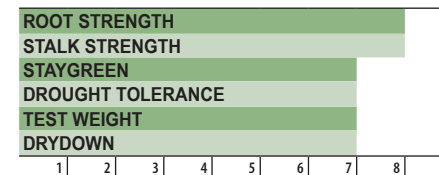
POWERCORE
Enlist
REFUGES ADVANCED

- Well-suited for diverse geographies, soil conditions, and yield environments
- Ear flex allows lower planting populations
- Appealing late-season appearance with outstanding staygreen and plant integrity
- Versatile dual-purpose hybrid delivering optimal results at moderate planting densities

104 RM D44CC56 Brand

Available RA: No

CORN



Conventional

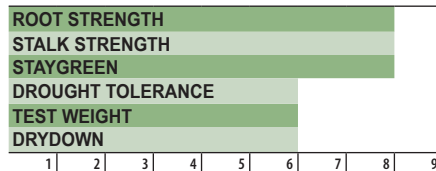
- Well-suited for diverse geographies, soil conditions, and yield environments
- Ear flex allows lower planting populations
- Appealing late-season appearance with outstanding staygreen and plant integrity
- Versatile dual-purpose hybrid delivering optimal results at moderate planting densities

	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
	D44CC25	104	Conventional	No	D44PN25	2507	32-36	7	7	M/T	MH	Flex	6	8	8
	D44PN25RA	104	PCE-RA	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
	D44DC73RIB	104	DG/VT2P-RIB	Yes	D44DC73	2600	30-36	7	7	M/T	M	Flex	8	8	8
	D45SP33RIB	105	SSP-RIB	Yes	D45SP23	2540	32-36	7	7	M	M	Semi-Det	6	7	6
	D45TC55RIB	105	TRE-RIB	Yes	D45TC55	2580	34-38	8	8	M/T	ML	Semi-Det	8	5	8
NEW	D46PN97RA	106	PCE	Yes	D46PN97	2550	30-36	8	8	M/T	M	Semi-Flex	6	8	8
	D48VC84RIB	108	VT2P-RIB	Yes	D48VC84	2620	32-38	8	8	M	M	Semi-Flex	7	7	8
	D48SS50RIB	108	SS-RIB	Yes	D48SS50	2630	32-38	8	8	M	ML	Semi-Flex	8	7	8



106 RM D46PN97RA Brand

Available RIB: Yes

NEW
CORN

- High yielding product geared towards productive acres with dual purpose potential
- Very attractive plant type and good standability
- Solid Goss' wilt and greensnap ratings will allow for western movement

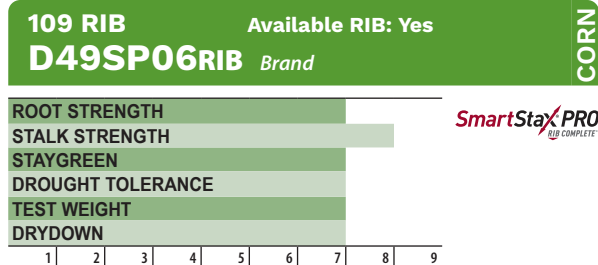
108 RM D48PN87RA Brand

Available RIB: Yes

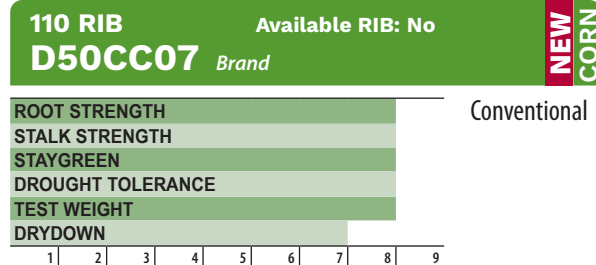
NEW
CORN

- Best suited for moderate to higher yielding acres
- Broad east to west footprint with exceptional performance central and east
- Good Goss's wilt and greensnap ratings to allow western movement
- Best performance in zone and north

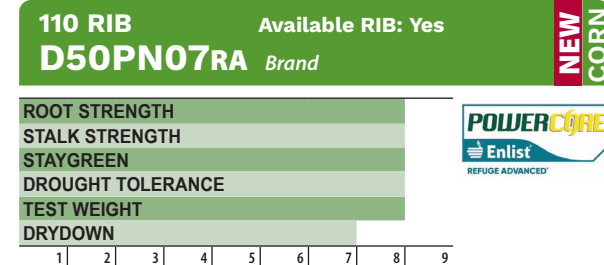
Root Strength	HARVEST							DISEASE TOLERANCE										PRODUCT	
	Test Weight	Grain Drydown	Staygreen	Husk Coverage	Dual Purpose	Silage Select™	Gray Leaf Spot	Goss's Wilt	N. Leaf Blight	S. Leaf Blight	Eye Spot	Tar Spot	Common Rust	Southern Rust	Anthracnose	Leaf Anthracnose	Dyna-Gro Brand		
5	7	5	8	Med-long	HR	Yes	7	8	7	N/A	N/A	7	N/A	N/A	N/A	N/A	D44CC25		
5	7	5	8	Med-long	HR	Yes	7	8	7	N/A	N/A	7	N/A	N/A	8	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	6	6	5	Adequate	R	No	7	8	6	N/A	N/A	3	7	N/A	6	6	D44DC73RIB		
6	5	6	6	Adequate	NR	No	5	6	6	7	6	5	8	5	8	7	D45SP33RIB		
9	6	9	6	Medium	HR	Yes	7	8	7	N/A	N/A	5	N/A	4	7	7	D45TC55RIB		
8	6	6	8	Med-long	HR	No	6	7	8	7	8	6	8	7	8	8	D46PN97RA		
6	8	8	7	Med-long	R	No	6	7	8	N/A	N/A	5	N/A	N/A	7	7	D48VC84RIB		
7	7	9	6	Adequate	HR	No	6	7	7	8	N/A	N/A	N/A	8	7	7	D48SS50RIB		



- Good test weight, drought resilience, staygreen, and plant integrity
- Strong stalks and very good greensnap resistance
- Exceptional disease resistance, including outstanding tolerance to Goss's wilt



- Very stable across yield levels and environments
- Solid agronomics and disease package
- Girthy semi-flex ears with very good kernel depth

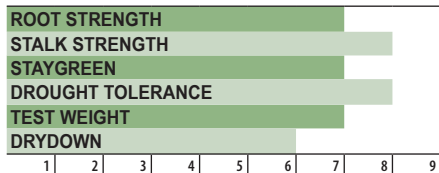


- Very stable across yield levels and environments
- Solid agronomics and disease package
- Girthy semi-flex ears with very good kernel depth

	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	D48PN87RA	108	PCE	Yes	D48PN87	2585	30-38	8	8	M/T	M	Semi-Flex	6	8	8	
	D49SP06RIB	109	SSP-RIB	Yes	D49SP06	2603	N/A	7	6	M	M	Flex	7	8	8	
	D49CC05	109	Conventional	No	D49PN05	2605	30-36	7	7	M	M	Flex	5	7	7	
	D49PN05RA	109	PCE	Yes	D49PN05	2605	30-36	7	7	M	M	Flex	5	7	7	
	D49SP83RIB	109	SSP-RIB	Yes	D49SP83	2650	32-36	7	8	M/T	MH	Semi-Flex	6	7	8	
	D50SP65RIB	110	SSP-RIB	Yes	D50SP65	2626	32-36	7	7	T	MH	Semi-Flex	7	8	7	
	D50VC09RIB	110	VT2P-RIB	Yes	D50VC09	2660	32-36	7	8	M/T	MH	Semi-Flex	7	7	7	
NEW	D50CC07	110	Conventional	No	D50PN07	2600	32-36	9	8	M/T	M	Semi-Flex	8	7	8	
NEW	D50PN07RA	110	PCE	Yes	D50PN07	2600	32-36	9	8	M/T	M	Semi-Flex	8	7	8	

112 RM Available RIB: Yes D52VT96RIB Brand

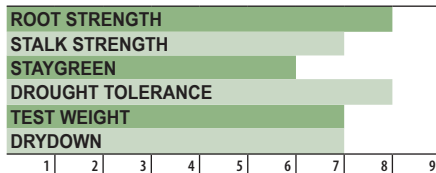
CORN


vt4PRO
RIB COMPLETE

- Demonstrates above-average tolerance to crown rot
- Very good stalk strength and drought resilience
- Semi-flex ear featuring 18-20 kernel rows and impressive test weight
- Very good tolerance to greensnap and Goss's wilt, making it suitable for western regions

112 RM Available RIB: Yes D52TC66 Brand

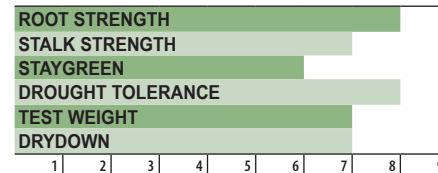
CORN


Trecepta
RIB COMPLETE

- Very good tolerance to heat and drought conditions
- Good test weight and grain quality, with potential for food-grade applications
- Semi-flex ear type with good drydown characteristics

112 RM Available RIB: Yes D52TC66RIB Brand

CORN


Trecepta
RIB COMPLETE

- Very good tolerance to heat and drought conditions
- Good test weight and grain quality, with potential for food-grade applications
- Semi-flex ear type with good drydown characteristics

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	6	7	Med-long	R	No		7	7	7	7	8	6	7	6	8	8	D48PN87RA	
7	7	7	7	Adequate	N	No		7	8	7	8	8	7	8	6	8	8	D49SP06RIB	
7	5	7	7	Med-long	HR	No		7	7	4	7	N/A	5	N/A	5	N/A	N/A	D49CC05	
7	5	7	7	Med-long	HR	No		7	7	4	7	N/A	5	N/A	5	7	N/A	D49PN05RA	
8	8	7	8	Adequate	NR	No		6	5	5	7	7	5	7	5	8	7	D49SP83RIB	
8	6	7	6	Adequate	HR	No		7	7	7	8	8	4	8	6	8	7	D50SP65RIB	
6	6	8	6	Adequate	HR	No		7	7	8	7	N/A	3	N/A	6	8	7	D50VC09RIB	
8	8	7	8	Med-long	HR	No		8	8	7	7	7	8	8	6	8	8	D50CC07	
8	8	7	8	Med-long	HR	No		8	8	7	7	7	8	8	6	8	8	D50PN07RA	

CORN

112 RM D52CC76 Brand Available RA: No

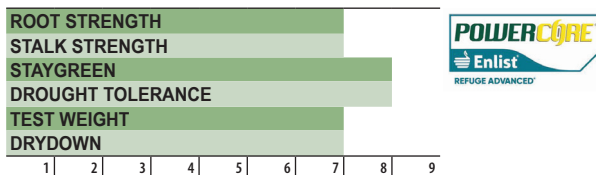
CORN



- Exceptional potential for top-end yields
- Excellent ear flexibility supports moderate planting densities
- Excellent versatility with dual-purpose capabilities
- Robust disease resistance, including strong tolerance to NCLB and Goss's wilt

112 RM D52PN76RA Brand Available RA: Yes

CORN



- Exceptional potential for top-end yields
- Excellent ear flexibility supports moderate planting densities
- Excellent versatility with dual-purpose capabilities
- Robust disease resistance, including strong tolerance to NCLB and Goss's wilt

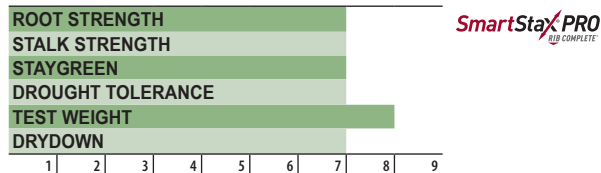


108-110 RELATIVE MATURITY

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
D51VC95RIB	111	VT2P-RIB	Yes	D51VC95	2643		32-36	8	7	M	M	Semi-Flex	7	8	8
D51SS61RIB	111	SS-RIB	Yes	D51SS61	2670		34-38	7	7	M	M	Semi-Det	7	8	8
D52VT96RIB	112	VT4P-RIB	Yes	D52VT96	2542		32-38	7	7	M/T	M	Semi-Flex	8	7	8
D52TC66	112	TRE	Yes	D52TC66	2558		32-36	7	7	M/T	M	Semi-Flex	8	6	7
D52TC66RIB	112	TRE-RIB	Yes	D52TC66	2558		32-36	7	7	M/T	M	Semi-Flex	8	6	7
D52CC76	112	Conventional	No	D52PN76	2597		30-36	7	7	M/T	M	Flex	8	8	7
D52PN76RA	112	PCE-RA	Yes	D52PN76	2597		30-36	7	7	M/T	M	Flex	8	8	7
D52DC82RIB	112	DG/VT2P-RIB	Yes	D52SS82	2670		32-36	7	7	T	H	Semi-Flex	7	8	8
D52SS82RIB	112	SS-RIB	Yes	D52SS82	2670		32-36	7	7	M/S	M	Semi-Flex	6	8	7

113 RM D53SP37RIB Brand

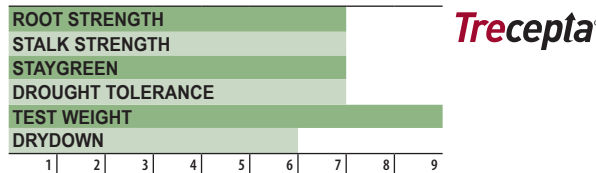
Available RIB: Yes

NEW
CORN

- Very solid agronomic package with best fit on high yielding acres
- Combines good tonnage and quality for dual purpose use
- Solid Goss' wilt and greensnap package allows western movement
- Above average southern rust resistance permits southern movement

114 RM D54TC77 Brand

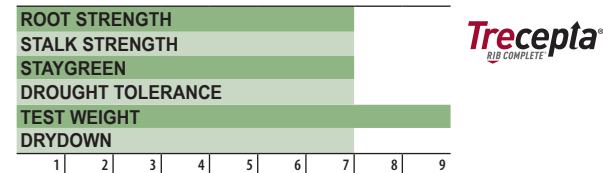
Available RIB: Yes

NEW
CORN

- Highly versatile product with very good stress and very high yield potential
- Impressive agronomics including greensnap tolerance
- Solid foliar disease package and above average crown rot rating
- Dual purpose for grain or silage

114 RM D54TC77RIB Brand

Available RIB: Yes

NEW
CORN

- Highly versatile product with very good stress and very high yield potential
- Impressive agronomics including greensnap tolerance
- Solid foliar disease package and above average crown rot rating
- Dual purpose for grain or silage

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	6	7	7	Adequate	N/A	No	5	8	6	8	8	4	8	5	7	7	D51VC95RIB	
9	7	7	7	Adequate	NR	No	7	8	8	8	N/A	5	N/A	5	6	6	D51SS61RIB	
7	7	6	7	Adequate	N	No	6	7	7	8	8	5	8	5	8	7	D52VT96RIB	
8	7	7	6	Adequate	N	No	7	7	6	7	8	6	8	8	8	8	D52TC66	
8	7	7	6	Adequate	N	No	7	7	6	7	8	6	8	8	8	8	D52TC66RIB	
7	7	7	8	Adequate	HR	No	8	8	8	n/a	8	7	8	8	7	7	D52CC76	
7	7	7	8	Adequate	HR	No	8	8	8	n/a	8	7	8	8	7	7	D52PN76RA	
8	6	9	7	Long	HR	No	6	7	8	8	N/A	N/A	N/A	5	7	7	D52DC82RIB	
7	6	9	7	Long	HR	No	6	7	8	8	N/A	N/A	N/A	6	8	7	D52SS82RIB	

CORN

111-112 RELATIVE MATURITY



	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
	D52VC91RIB	112	VT2P-RIB	Yes	D52VC91	2700	32-36	8	8	M/S	M	Semi-Flex	8	5	8
	D52CC63	112	Conventional	No	D52VC63	2710	34-38	7	7	M/T	M	Semi-Det	7	6	7
	D52SS91RIB	112	SS-RIB	Yes	D52VC91	2740	32-36	8	8	M/S	M	Semi-Flex	8	5	8
	D53VC54RIB	113	VT2P-RIB	Yes	D53VC54	2655	34-36	7	7	M/T	MH	Semi-flex	7	7	7
	D53SP85RIB	113	SSP-RIB	Yes	D53SP85	2681	32-36	7	7	M/T	M	Semi-Det	7	7	8
	D53VC33RIB	113	VT2P-RIB	Yes	D53VC33	2720	32-36	7	7	M/T	M	Semi-Flex	8	7	7
	D53CC13WX	113	Conv/ WX	No	D53SS13	2730	32-38	8	8	M/T	M	Semi-Det	6	7	7
	D53TC23RIB	113	TRE-RIB	Yes	D53TC23	2750	32-38	6	7	M/T	MH	Semi-Det	7	6	6
NEW	D53SP37RIB	113	SSP-RIB	Yes	D53SP37	2740	32-36	7	7	M	M	Semi-Flex	7	7	7

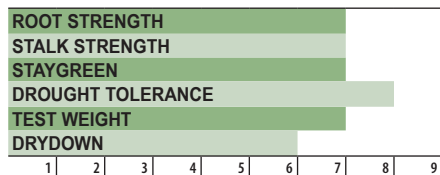


Root Strength	HARVEST							DISEASE TOLERANCE										PRODUCT	
	Test Weight	Grain Drydown	Staygreen	Husk Coverage	Dual Purpose	Silage Select™	Gray Leaf Spot	Goss's Wilt	N. Leaf Blight	S. Leaf Blight	Eye Spot	Tar Spot	Common Rust	Southern Rust	Anthracnose	Leaf Anthracnose	Dyna-Gro Brand		
7	9	7	7	Adequate	NR	No	6	6	8	8	7	N/A	7	6	6	6	D52VC91RIB		
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	D52SS91RIB		
7	7	5	7	Adequate	R	No	7	7	7	7	N/A	5	7	4	6	6	D53VC54RIB		
8	7	7	6	Adequate	R	No	6	8	7	8	8	4	8	4	7	7	D53SP85RIB		
7	7	7	7	Med-long	HR	No	7	6	7	7	N/A	5	6	5	6	6	D53VC33RIB		
9	8	7	6	Short	NR	No	7	7	8	8	N/A	N/A	N/A	5	7	7	D53CC13WX		
7	7	8	5	Adequate	R	No	6	6	7	8	N/A	N/A	N/A	8	6	6	D53TC23RIB		
7	8	7	7	Adequate	HR	No	6	7	6	9	8	7	7	8	8	7	D53SP37RIB		

115 RM D55CC86 Brand

Available RIB: No

CORN



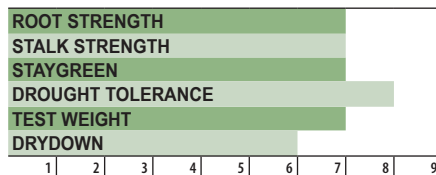
Conventional

- Demonstrates strong resistance to crown rot
- Versatile hybrid suitable for both grain and silage production
- Strong tolerance to both drought and heat stress
- Semi-flex ear with excellent test weight

115 RM D55VC86 Brand

Available RIB: No

CORN



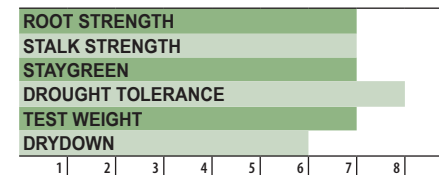
Trecepta

- Demonstrates strong resistance to crown rot
- Versatile hybrid suitable for both grain and silage production
- Strong tolerance to both drought and heat stress
- Semi-flex ear with excellent test weight

115 RM D55VC86RIB Brand

Available RIB: Yes

CORN

VT Double PRO
RIB COMPLETE

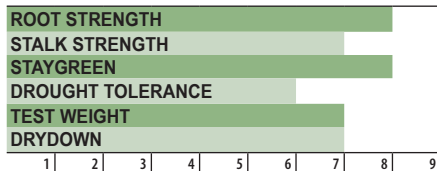
- Demonstrates strong resistance to crown rot
- Versatile hybrid suitable for both grain and silage production
- Strong tolerance to both drought and heat stress
- Semi-flex ear with excellent test weight

	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
	D54RR14	114	RR2	No	D54VC14	2710	32-38	7	9	M	M	Semi-Flex	8	8	7
	D54VC14	114	VT2P	Yes	D54VC14	2710	32-38	7	9	M	M	Semi-Flex	8	8	7
	D54VC14RIB	114	VT2P-RIB	Yes	D54VC14	2710	32-38	7	9	M	M	Semi-Flex	8	8	7
	D54SS74RIB	114	SS	Yes	D54SS74	2740	32-36	8	8	M	M	Semi-Flex	7	8	7
	D54VC34	114	VT2P	Yes	D54VC34	2740	32-38	7	8	M/T	M	Semi-Flex	7	7	7
	D54VC34RIB	114	VT2P-RIB	Yes	D54VC34	2740	32-38	7	8	M/T	M	Semi-Flex	7	7	7
	D54SS34RIB	114	SS-RIB	Yes	D54VC34	2750	32-38	7	8	M	M	Semi-Flex	7	7	7
NEW	D54TC77	114	TRE	Yes	D54TC77	2750	30-36	7	7	M/T	M	Semi-Flex	7	7	7
NEW	D54TC77RIB	114	TRE-RIB	Yes	D54TC77	2750	30-36	7	7	M/T	M	Semi-Flex	7	7	7

115 RM Available RIB: Yes

D55VC80 Brand

CORN



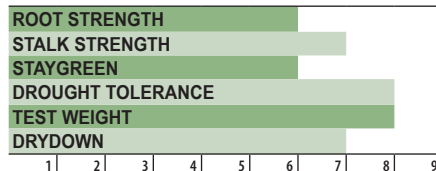
VTDoublingPRO

- 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

116 RM Available RIB: Yes

D56TC44RIB Brand

CORN

Trecepta
RIB COMPLETE

- 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

116 RM Available RIB: No

D56RR44 Brand

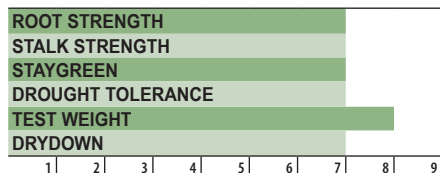
CORN

Roundup
Ready
CORN 2

- 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

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	
8	9	7	7	Adequate	R	No		7	7	8	8	N/A	N/A	N/A	7	6	N/A	D54RR14	
8	9	7	7	Adequate	R	No		7	7	8	8	N/A	N/A	N/A	7	6	N/A	D54VC14	
8	9	7	7	Adequate	R	No		7	7	8	8	N/A	N/A	N/A	7	6	N/A	D54VC14RIB	
8	6	6	6	Adequate	NR	No		6	7	8	8	N/A	N/A	N/A	5	7	7	D54SS74RIB	
8	8	7	8	Long	HR	Yes		7	7	7	8	N/A	N/A	N/A	5	5	7	D54VC34	
8	8	7	8	Long	HR	Yes		7	7	7	8	N/A	N/A	N/A	5	5	5	D54VC34RIB	
8	8	7	8	Long	HR	No		7	7	7	8	N/A	N/A	N/A	5	7	6	D54SS34RIB	
7	9	6	7	Long	HR	No		7	7	7	8	7	6	8	7	8	8	D54TC77	
7	9	6	7	Long	HR	No		7	7	7	8	7	6	8	7	8	8	D54TC77RIB	

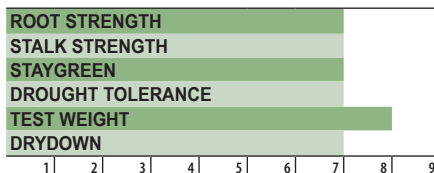
117 RM D55TC29 Available RIB: Yes CORN



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 D55TC29RIB Available RIB: Yes CORN



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

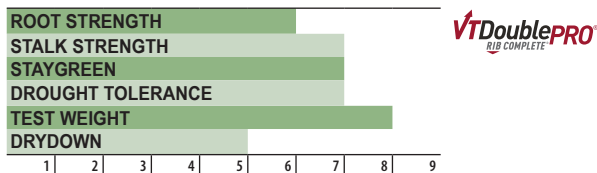


PRODUCT							PLANTING		GROWTH						
Dyna-Gro Brand	RM	Technology	Available Refuge Blend	Hybrid Family	GDU		Planting Population	Emergence	Seedling Vigor	Plant Height	Ear Height	Ear Flex	Drought Tolerance	Greensnap	Stalk Strength
D55CC86	115	Conventional	No	D55VC86	2711		32-38	7	7	M	M	Semi-Flex	8	7	7
D55VC86	115	VT2P	No	D55VC86	2711		32-38	7	7	M	M	Semi-Flex	8	7	7
D55VC86RIB	115	VT2P-RIB	Yes	D55VC86	2711		32-38	7	7	M	M	Semi-Flex	8	7	7
D55CC80	115	Conventional	No	D55VC80	2780		32-36	7	8	M/T	MH	Semi-Flex	6	6	7
D55VC80	115	VT2P	Yes	D55VC80	2780		32-36	7	8	M/T	MH	Semi-Flex	6	6	7
D55VC80RIB	115	VT2P-RIB	Yes	D55VC80	2780		32-36	7	8	M/T	MH	Semi-Flex	6	6	7
D56RR44	116	RR2	NO	D56TC44	2595		32-36	8	8	M/T	M	Semi-Flex	8	8	7
D56TC44	116	TRE	Yes	D56TC44	2595		32-36	8	8	M/T	M	Semi-Flex	8	8	7
D56TC44RIB	116	TRE-RIB	Yes	D56TC44	2595		32-36	8	8	M/T	M	Semi-Flex	8	8	7

117 RM D57VC75

Available RIB: Yes

Brand

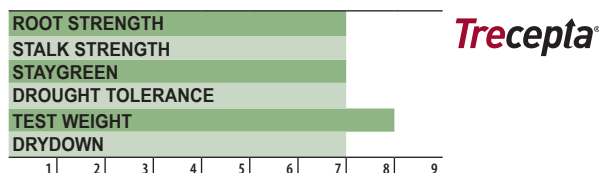


- High test weight grain on a semi-flex ear with good kernel depth
- Tall plant with very good canopy cover
- Broadly adapted in full season zone
- Handles a wide variety of soil types and yield environments

117 RM D57TC29

Available RIB: Yes

Brand



- 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 D57TC29RIB

Available RIB: Yes

Brand

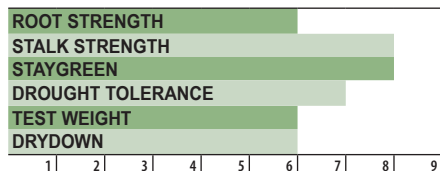


- Tall hybrid with robust canopy and adapted to full season areas
- Good Goss's wilt, northern leaf blight, southern leaf blight, and anthracnose, average gray leaf spot
- Semi-flex ear and pink cob with high test weight grain
- Good drought tolerance and staygreen with excellent intactness

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	6	7	Adequate	HR	No		7	6	7	8	8	6	8	5	7	7	D55CC86	
7	7	6	7	Adequate	HR	No		7	6	7	8	8	6	8	5	7	7	D55VC86	
7	7	6	7	Adequate	HR	No		7	6	7	8	8	6	8	5	7	7	D55VC86RIB	
8	7	7	8	Adequate	HR	Yes		7	7	8	8	N/A	N/A	N/A	N/A	7	7	D55CC80	
8	7	7	8	Adequate	HR	Yes		7	7	8	8	N/A	N/A	N/A	N/A	7	7	D55VC80	
8	7	7	8	Adequate	HR	Yes		7	7	8	8	N/A	N/A	N/A	N/A	7	7	D55VC80RIB	
6	8	7	6	Adequate	NR	No		5	5	6	7	7	5	7	6	5	5	D56RR44	
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	D56TC44RIB	

117 RM D57VC75 Available RIB: Yes Brand

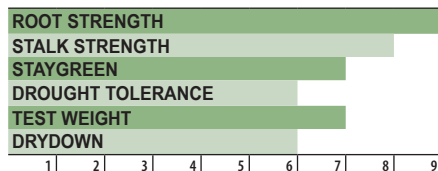
CORN


VTDoublePRO®
 RIB COMPLETE

- 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

117 RM D57VC51RIB Available RIB: Yes Brand

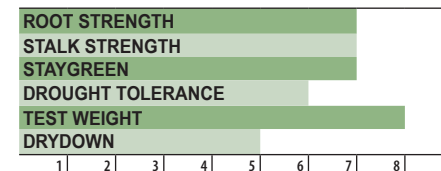
CORN


VTDoublePRO®
 RIB COMPLETE

- Consistent full season VT Double PRO® corn hybrid with high yield and tropical background
- Medium plant height with a very full canopy, use on dryland or irrigated
- Very good stalk and root strength with late season staygreen and intactness
- Excellent grain quality, test weight, and food grade properties
- Excellent plant health

117 RM D57VC53RIB Available RIB: Yes Brand

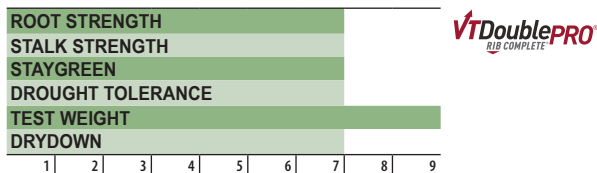
CORN


VTDoublePRO®
 RIB COMPLETE

- 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

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		
D57TC29	117	TRE	Yes	D57TC29	2800	30-36	7	8	T	MH	Semi-Flex	7	8	7		
D57TC29RIB	117	TRE-RIB	Yes	D57TC29	2800	30-36	7	8	T	MH	Semi-Flex	7	8	7		
D57VC75	117	VT2P	Yes	D57VC75	2800	32-38	7	7	T	MH	Semi-Det	7	7	8		
D57VC75RIB	117	VT2P-RIB	Yes	D57VC75	2800	32-38	7	7	T	MH	Semi-Det	7	7	8		
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		
D57VC51	117	VT2P	Yes	D57VC51	2810	32-36	6	6	M	M	Flex	6	6	8		
D57VC51RIB	117	VT2P-RIB	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		

118 RM Available RIB: Yes D58VC65RIB Brand



- Broadly adapted from east to west and across the south with good stalks and roots
- Very good northern leaf blight, southern leaf blight with good Goss's wilt, and gray leaf spot tolerance
- Good stress tolerance, heat tolerance, and ear flex
- Excellent plant health and good grain quality
- Very good dual purpose hybrid

118 RM Available RIB: Yes D58VC74 Brand



- 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 Available RIB: Yes D58VC74RIB Brand



- 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	
7	8	7	7	Long	HR	No		6	7	7	8	N/A	N/A	N/A	5	8	7	D57TC29	
7	8	7	7	Long	HR	No		6	7	7	8	N/A	N/A	N/A	5	8	7	D57TC29RIB	
6	6	6	8	Long	HR	Yes		6	7	8	9	7	N/A	6	4	6	6	D57VC75	
6	6	6	8	Long	HR	Yes		6	7	8	9	7	N/A	6	4	6	6	D57VC75RIB	
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	
9	7	6	7	Adequate	R	No		6	4	7	8	7	N/A	6	7	6	6	D57VC51	
9	7	6	7	Adequate	R	No		6	4	7	8	7	N/A	6	7	6	6	D57VC51RIB	
7	8	5	7	Long	R	No		7	5	7	6	N/A	3	7	6	N/A	N/A	D57VC53	

CORN

117 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

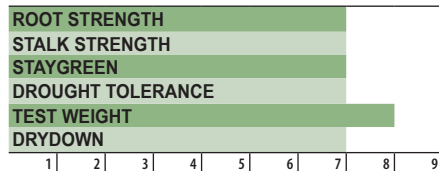
DYNAGROSEED.COM

31

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	
D57VC53RIB		117	VT2P-RIB	Yes	D57VC53	2850	32-36	7	7	T	MH	Semi-Flex	6	5	7	
D58RR94		118	RR2	No	D58TC94	2810	32-36	7	8	M	ML	Semi-Flex	7	6	7	
D58TC94		118	TRE	Yes	D58TC94	2810	32-36	7	8	M	ML	Semi-Flex	7	6	7	
D58VC65		118	VT2P	Yes	D58VC65	2830	32-36	8	8	M	M	Semi-Flex	7	7	8	
D58VC65RIB		118	VT2P-RIB	Yes	D58VC65	2830	32-36	8	8	M	M	Semi-Flex	7	7	8	
D58RR74		118	RR2	No	D58VC74	2850	32-36	7	7	M	ML	Semi-Flex	7	6	7	
D58SS65		118	SS	Yes	D58VC65	2850	32-36	8	8	M	M	Semi-Flex	7	7	8	
D58SS65RIB		118	SS-RIB	Yes	D58VC65	2850	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	

118 RM D58RR94 Brand

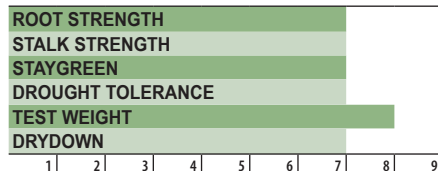
Available RIB: No



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

118 RM D58TC94 Brand

Available RIB: Yes



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

118 RM D58RR74 Brand

Available RIB: No



- 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	
7	8	5	7	Long	R	No	7	5	7	6	N/A	3	7	6	N/A	N/A	D57VC53RIB	
7	8	7	7	Adequate	NR	No	6	5	7	8	7	5	7	7	7	N/A	D58RR94	
7	8	7	7	Adequate	NR	No	6	5	7	8	7	5	7	7	7	N/A	D58TC94	
7	9	7	7	Adequate	HR	No	7	7	8	8	N/A	N/A	6	7	6	6	D58VC65	
7	9	7	7	Adequate	HR	No	7	7	8	8	N/A	N/A	6	7	6	6	D58VC65RIB	
7	7	7	8	Adequate	NR	No	6	6	7	8	7	5	7	7	7	N/A	D58RR74	
7	9	7	7	Adequate	HR	No	7	7	8	8	N/A	N/A	6	7	6	6	D58SS65	
7	9	7	7	Adequate	HR	No	7	7	8	8	N/A	N/A	6	7	6	6	D58SS65RIB	
7	7	7	8	Adequate	NR	No	6	6	7	8	7	5	7	7	7	N/A	D58VC74	

CORN

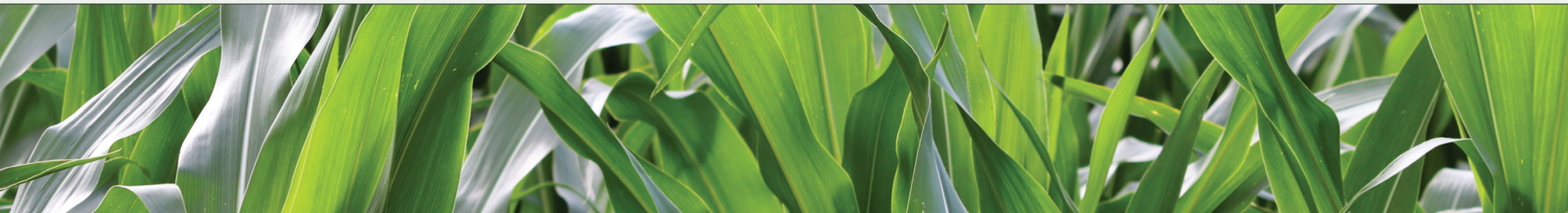
117-118 RELATIVE MATURITY



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	
D58VC74RIB	118	VT2P-RIB	Yes	D58VC74	2850		32-36	7	7	M	ML	Semi-Flex	7	6	7	
D60TC45	120	TRE	Yes	D60TC45	2865		32-36	7	7	T	H	Semi-Flex	8	8	8	
D60TC45RIB	120	TRE-RIB	Yes	D60TC45	2865		32-36	7	7	T	H	Semi-Flex	8	8	8	



	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	Anthrachnose	Leaf Anthracnose	Dyna-Gro Brand
	7	7	7	8	Adequate	NR	No	6	6	7	8	7	5	7	7	7	N/A	D58VC74RIB
	7	7	5	8	Adequate	HR	No	7	5	7	8	8	5	8	7	8	8	D60TC45
	7	7	5	8	Adequate	HR	No	7	5	7	8	8	5	8	7	8	8	D60TC45RIB

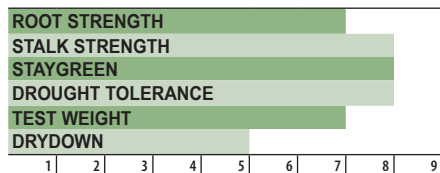


CORN

120 RM D60TC45 *Brand*

Available RIB: Yes

CORN



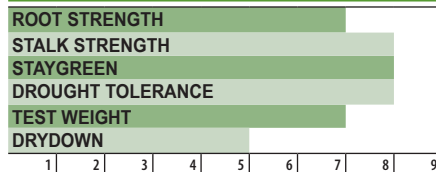
Trecepta®

- 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

120 RM D60TC45RIB *Brand*

Available RIB: Yes

CORN



Trecepta®
RIB COMPLETE

- 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

118-120 RELATIVE MATURITY



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 the STS® herbicide tolerant trait
- XTFlex = XtendFlex®
- XTFlex/STS = XtendFlex® with STS stacked

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				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		R			
Rps1k	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	R	R
Rps6	R	R	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® with the STS® herbicide tolerant trait
- 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: S35ES56 = Enlist E3® soybean & STS® stack at 3.5 maturity and S46XF26S = XtendFlex® soybean & STS® stack at 4.6 maturity

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

THE NEW STANDARD FOR WEED CONTROL & YIELD PERFORMANCE ENLIST® WEED CONTROL SYSTEM



ON-TARGET APPLICATIONS: | 90% less drift than traditional 2,4-D | 96% less volatile than 2,4-D ester



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

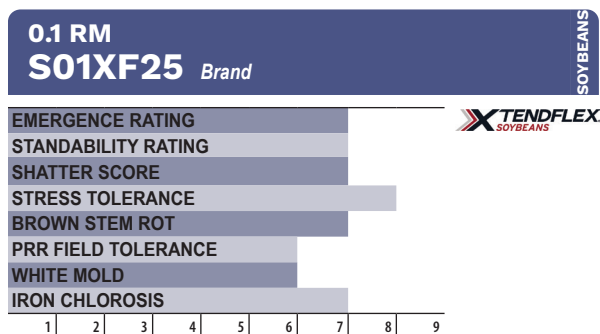
SOYBEANS CORN

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

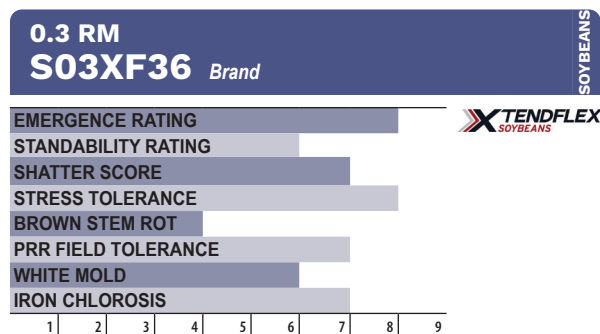
- Convenient proprietary blend of 2,4-D choline and glyphosate
- The two modes of action work together to deliver control of yield-robbing weeds and help prevent resistance
- Straight goods 2,4-D choline with additional tank-mix flexibility
- Provides additional tank-mix flexibility with glyphosate, glufosinate and other qualified tank-mix products, allowing for a customized weed control program to fit each farm



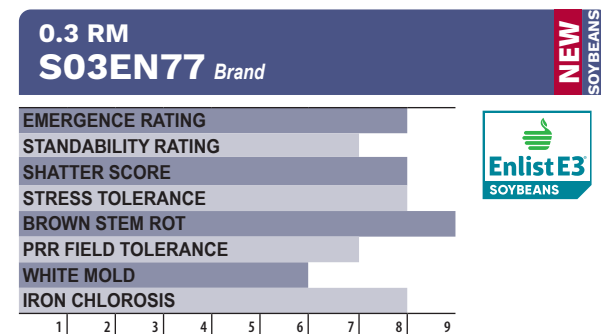
	PRODUCT			PRODUCTION						PLANT ATTRIBUTES						
	Dyna-Gro Brand	Technology	Maturity	Emergence	Row Width	Standability	Stress Tolerance	Iron Deficiency Chlorosis	Shatter Resistance	Plant Height	Plant Type	Canopy Type	Flower Color	Hilum Color	Pubescence	Pod Color
	S006XF83	XTFlex	0.06	8	All	7	8	7	8	M/T	I	M	P	BR	LT	BR
	S009XF33	XTFlex	0.09	9	All	8	7	7	8	M	I	MB	P	BL	T	BR
	S009EN24	ENLIST	0.09	8	All	7	8	6	8	M	I	MB	P	BF	G	TN
	S01XF25	XTFlex	0.1	7	All	7	8	7	7	M/T	I	MB	P	BL	LT	BR
	S03XF36	XTFlex	0.3	8	All	6	8	7	7	M/T	I	MB	P	BR	LT	BR
NEW	S03EN77	ENLIST	0.3	8	All	7	8	8	8	M/T	I	MT	P	IB	G	TN
	S03EN94	ENLIST	0.3	8	All	8	9	6	8	M/T	I	M	P	IB	G	TN
	S05XF73	XTFlex	0.5	8	All	7	8	7	8	M/T	I	MB	P	BR	LT	BR



- Early group 0 XtendFlex® soybean 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



- XtendFlex® soybean introduction at early group 0 maturity has great stress tolerance and western adaptation
- Rps3a gene with very good field tolerance for *Phytophthora* root rot
- Very good tolerance for iron deficiency chlorosis and resistance for cyst nematode
- Medium-tall plant height with moderate-bushy lateral branching and good standability
- Excellent ability to move south of its maturity zone



- Enlist E3® soybean line features strong iron deficiency chlorosis tolerance with broad adaptability
- Very good field tolerance for *Phytophthora* root rot and resistance for cyst nematode
- Consistent performance in stress and high yielding environments
- Medium-tall plant height with upright branching canopy type and good standability
- Resistance for brown stem rot with 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
	S	N/A	Rps1k	6	7	9	N/A	N/A	N/A	N/A	N/A	N/A	7	INC	S009XF33
	R3, MR14	PI88788	Rps3a	8	6	2	N/A	N/A	9	7	N/A	N/A	N/A	INC	S009EN24
	MR3	PI88788	Rps1c	6	6	7	4	N/A	N/A	6	N/A	2	5	INC	S01XF25
	R3, MR14	PI88788	Rps3a	7	6	4	7	N/A	N/A	N/A	N/A	N/A	5	INC	S03XF36
	R3	PI88788	S	7	6	9	6	N/A	9	7	N/A	N/A	6	INC	S03EN77
	R3, MR14	PI88788	Rps3a	8	7	2	N/A	N/A	9	7	N/A	N/A	N/A	EXC	S03EN94
	R3, MR14	PI88788	Rps1c	7	6	5	N/A	N/A	N/A	N/A	N/A	N/A	7	INC	S05XF73

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.

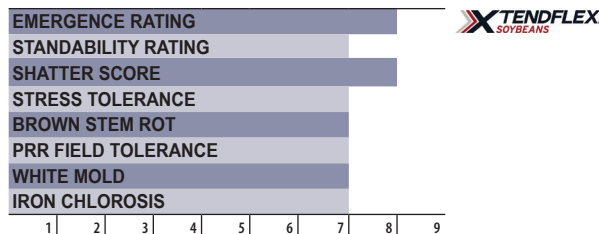
Seed containing a patented trait can only be used to plant a single commercial crop. It is unlawful to save and replant seed from that crop. Examples of seed containing a patented trait include but are not limited to Roundup Ready 2 Yield® soybeans, Roundup Ready 2 Xtend® soybeans, XtendFlex® soybeans, 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
	S07EN45	ENLIST	0.7	8	All	7	8	7	8	M	I	M	P	IB	G	TN
	S07XF86	XTFlex	0.7	8	All	7	7	7	8	M/T	I	MB	P	BL	LT	BR
	S09EN26	ENLIST	0.9	7	All	8	7	8	8	M	I	MB	P	BR	LT	BR
	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
NEW	S14EN27	ENLIST	1.4	7	All	7	8	6	8	M	I	MB	P	BL	LT	BR
	S14XF43	XTFlex	1.4	8	All	7	8	6	8	M/T	I	M	P	BR	LT	BR

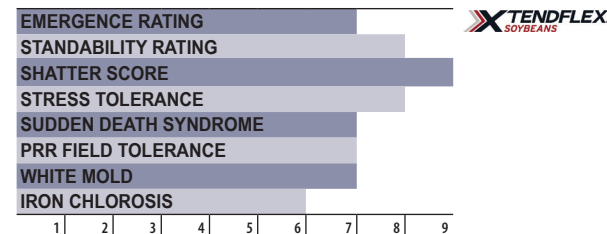


0.7 RM S07XF86 Brand



- XtendFlex® soybean release at late group 0 is well adapted across most environments and soil types
- Rps1c gene for *Phytophthora* root rot and good tolerance for *Sclerotinia* white mold
- Cyst nematode resistant and very good tolerance for iron deficiency chlorosis
- Medium-tall plant height, moderate-bushy plant type and very good standability
- Best performance when kept within to north of its maturity zone of adaptation

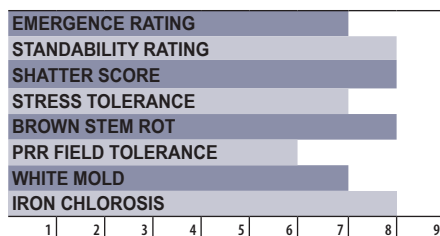
0.9 RM S09XF55 Brand



- XtendFlex® soybean 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

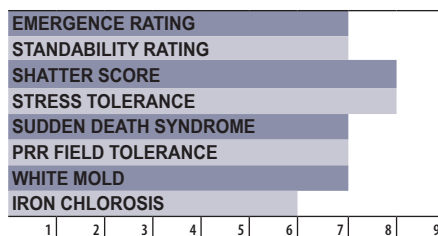
	DISEASE TOLERANCE														PRODUCT
	Soybean Cyst Nematode	SCN Source of Resistance	Phytophthora Resistance	Phytophthora Field Tolerance	Sclerotinia White Mold	Brown Stem Rot	Sudden Death Syndrome	Frogeye Leaf Spot	Stem Canker	Charcoal Rot	Cercospora Leaf Blight	Southern Root Knot Nematode	Metribuzin Tolerance	Chloride Sensitivity	Dyna-Gro Brand
	R1, R3	Peking	Rps1c	7	6	2	7	N/A	9	6	N/A	2	7	INC	S07EN45
	R3	PI88788	Rps1c	7	7	7	5	N/A	9	N/A	N/A	N/A	5	INC	S07XF86
	R3	PI88788	Rps1k, 3a	6	7	8	6	N/A	9	N/A	6	N/A	7	INC	S09EN26
	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
	R1,R3,MR5	Peking	Rps1k	7	7	8	7	N/A	9	6	7	2	7	INC	S14EN27
	MR3, MR14	PI88788	Rps1c, 3a	7	7	7	7	N/A	9	7	N/A	N/A	8	INC	S14XF43

0.9 RM S09EN26 Brand



- Enlist E3® soybean introduction features best in class tolerance for iron deficiency chlorosis
- Rps1k and 3a genes for *Phytophthora* root rot with moderate resistance for brown stem rot
- Very good tolerance for *Sclerotinia* white mold and resistance for cyst nematode
- Medium plant height with good lateral branching and excellent standability

1.4 RM S14EN27 Brand



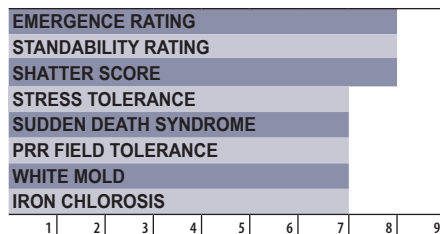
- Enlist E3® soybean introduction features the Peking source of resistance for cyst nematode
- Resistance for brown stem rot and very good field tolerance for *Phytophthora* root rot
- Above average tolerance scores for iron deficiency chlorosis and *Sclerotinia* white mold
- Medium plant height with good lateral branching and very good standability
- Favors placement within its maturity zone of adaptation



	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
	S16EN42	ENLIST	1.6	8	All	7	7	7	8	M	I	MB	P	BF	G	TN
	S17XF02	XTFlex	1.7	8	All	8	7	7	8	M/T	I	M	P	BR	LT	BR
	S18EN35	ENLIST	1.8	8	All	8	7	7	8	M	I	M	P	BF	G	TN
	S19XF45	XTFlex	1.9	8	All	7	8	7	7	M/T	I	M	P	BL	LT	TN
	S20EN46	ENLIST	2.0	8	All	8	7	7	8	M/T	I	M	P	IB	G	TN
	S20EN84	ENLIST	2.0	9	All	7	8	7	8	M/T	I	M	P	BR	LT	TN
	S21EN81	ENLIST	2.1	8	All	7	8	6	8	M	I	M	P	IB	G	BR

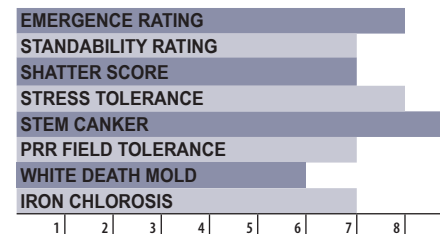


1.8 RM S18EN35 Brand



- 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



- 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
	R3, MR14	PI88788	Rps3a	8	6	9	7	N/A	9	6	N/A	N/A	5	INC	S16EN42
	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
	MR1, R3	Peking	Rps3a	7	7	9	6	N/A	9	7	N/A	2	N/A	INC	S20EN46
	R1, R3, R5	Peking	Rps1k	7	7	7	6	7	9	5	6	N/A	7	INC	S20EN84
	R3, MR14	PI88788	Rps1k	7	7	9	6	N/A	9	5	N/A	N/A	7	N/A	S21EN81

2.0 RM S20EN46 Brand

SOYBEANS

EMERGENCE RATING

STANDABILITY RATING

SHATTER SCORE

STRESS TOLERANCE

SUDDEN DEATH SYNDROME

PRR FIELD TOLERANCE

WHITE MOLD

IRON CHLOROSIS

1 2 3 4 5 6 7 8 9



- Enlist E3[®] soybean features the Peking source of resistance for soybean cyst nematode
- Excellent tolerance for *Sclerotinia* white mold with good iron deficiency chlorosis tolerance
- Medium tall plant height, moderate canopy type and very strong standability scores
- Rps3a gene for *Phytophthora* root rot and resistance for brown stem rot

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.

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.bayerus/contact or scan the QR code



Bayer is a member of the Seed Innovation and Protection Alliance. Visit www.seedalliance.com to learn more. SIFA[™] is a trademark of the Seed Innovation and Protection Alliance.

Bayer is a member of Excellence Through Stewardship[®] (ETS). Bayer products are commercialized in accordance with ETS Product Launch Stewardship Guidance, and in compliance with Bayer's Policy for Commercialization of Biotechnology-Derived Plant Products in Commodity Crops. Commercialized products have been approved for import into key export markets with functioning regulatory systems. Any crop or material produced from this product can only be imported 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. This is a violation of federal and state law to use any pesticide product other than in accordance with its labeling. NOT ALL formulations of dicamba or glyphosate are approved for in-crop use with Roundup Ready 2 Xtend[®] soybeans. NOT ALL formulations of dicamba, glyphosate or glufosinate are approved for in-crop use with products with XtendFlex[®] Technology. ONLY USE FORMULATIONS THAT ARE SPECIFICALLY LABELED FOR SUCH USES AND APPROVED FOR SUCH USE IN THE STATE OF APPLICATION. Contact the U.S. EPA and your state pesticide regulatory agency with any questions about the approval status of dicamba herbicide products for in-crop use with Roundup Ready 2 Xtend[®] soybeans or products with XtendFlex[®] Technology.

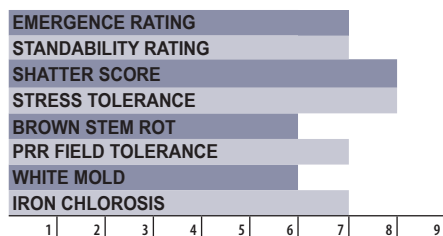
Roundup Ready[®] Technology contains genes that confer tolerance to glyphosate. **Roundup Ready 2[®] Technology** contains genes that confer tolerance to glyphosate. **Roundup Ready 2 Xtend[®] soybeans** contain genes that confer tolerance to glyphosate and dicamba. **Products with XtendFlex[®] Technology**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

Contact your Bayer retailer, refer to the Bayer Technology Use Guide, or call the technical support line at 1-888-283-6847 for recommended Roundup Ready[®] Xtend Crop System weed control programs. Bayer, Bayer Cross, Roundup Ready 2 Xtend[®], Roundup Ready 2 Yield[®], Roundup Ready[®] and XtendFlex[®] are registered trademarks of Bayer Group. LibertyLink[®] and the Water Droplet Design[®] is a trademark of BASF Corporation. ©2022 Bayer Group. All rights reserved.

Rev 01/2022

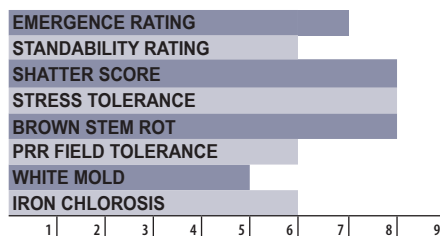
	PRODUCT			PRODUCTION						PLANT ATTRIBUTES						
	Dyna-Gro Brand	Technology	Maturity	Emergence	Row Width	Standability	Stress Tolerance	Iron Deficiency Chlorosis	Shatter Resistance	Plant Height	Plant Type	Canopy Type	Flower Color	Hilum Color	Pubescence	Pod Color
	S22XF95	XTFlex	2.2	7	All	6	8	7	7	M/T	I	MB	W	BL	LT	BR
	S23EN05	ENLIST	2.3	7	All	7	8	6	8	M/T	I	MB	P	BL	LT	TN
	S25EN74	ENLIST	2.5	7	All	6	8	6	8	M/T	I	MB	P	BL	LT	TN
NEW	S25ES57	ENLIST/STS	2.5	8	All	7	7	6	7	M	I	M	P	IB	G	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
	S27XF26	XTFlex	2.7	7	All	7	8	6	8	M	I	MB	W	BL	LT	BR
	S28XF85	XTFlex	2.8	7	All	7	8	5	8	M/T	I	MB	P	IB	G	BR

2.3 RM S23EN05 Brand



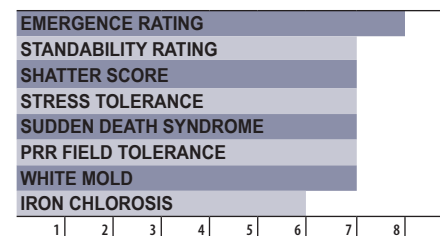
- Enlist E3® soybean release features improved agronomics with broad adaptation east to west
- Stacked Rps1c & Rps3a genes for *Phytophthora* root rot and very good sudden death syndrome tolerance
- Medium-tall plant height with very good lateral branching and good standability
- Resistance for cyst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

2.5 RM S25EN74 Brand



- Enlist E3® soybean introduction features the Peking source of resistance for cyst nematode
- Medium-tall plant height, very good lateral branching with average 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

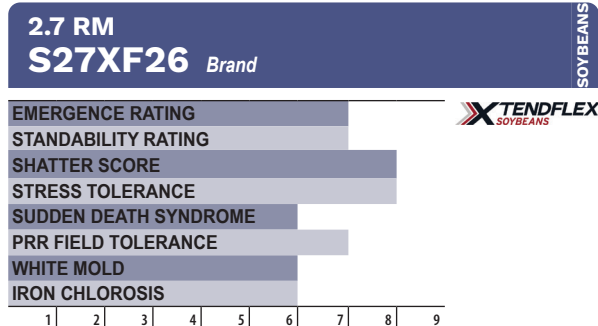
2.5 RM S25ES57 Brand



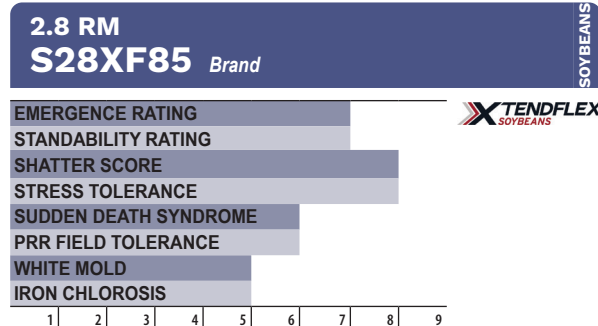
STS®
herbicide tolerant trait

- Enlist E3® soybean and STS® introduction with versatility in stress and high yield environments
- Medium plant height, moderate lateral branching plant type with very good standability
- Heterozygous for the Rps3a gene with very good field tolerance for *Phytophthora* root rot
- Very good tolerance for sudden death syndrome and *Sclerotinia* white mold
- Resistance for brown stem rot and very good charcoal rot 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
	MR3	PI88788	Rps1c	6	7	5	8	5	9	7	N/A	2	8	INC	S22XF95
	R3	PI88788	Rps1c, 3a	7	6	6	7	6	9	N/A	6	2	5	INC	S23EN05
	R1, R3, R5	Peking	Rps1k	6	5	8	7	7	9	N/A	N/A	N/A	7	INC	S25EN74
	MR3	PI88788	HRps3a	7	7	9	7	N/A	9	7	N/A	N/A	6	INC	S25ES57
	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
	MR3	PI88788	Rps1c	7	6	6	6	N/A	8	7	N/A	N/A	8	INC	S27XF26
	R3	PI88788	S	6	5	9	6	5	9	N/A	N/A	2	8	INC	S28XF85



- Mid-group II XtendFlex® soybean introduction features great western adaptation
- Rps1c gene for *Phytophthora* root rot with above average iron deficiency chlorosis tolerance
- Medium-plus plant height, moderate-bushy canopy type with very good standability
- Above average tolerance for *Sclerotinia* white mold and sudden death syndrome



- Late group II XtendFlex® soybean 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 of iron deficiency chlorosis

EQUITY VAYO DYNA-START 3P+

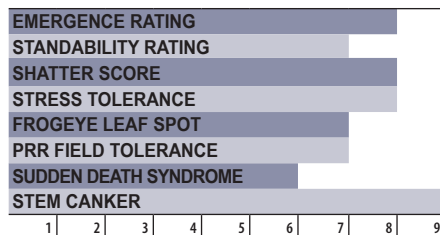
SYNERGY THAT SHOWS
STRONG, HEALTHY STARTS
WITH EQUITY VAYO® AND
DYNA-START® 3P+.

Loveland PRODUCTS

	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
	S29ES45	ENLIST/STS	2.9	8	All	7	8	6	8	M/T	I	MB	P	IB	G	BR
NEW	S30XF07	XTFlex	3.0	8	All	7	8	7	8	M	I	M	P	IB	G	BR
	S31EN96	ENLIST	3.1	8	All	8	8	5	8	M/T	I	M	P	BF	G	BR
	S31EN14	ENLIST	3.1	7	All	7	7	7	8	M	I	MB	P	BF	G	TN
	S33ES76	ENLIST/STS	3.3	8	All	7	8	6	8	M/T	I	MB	P	BR	LT	BR
NEW	S34XF47	XTFlex	3.4	8	All	8	8	6	8	M/T	I	M	P	IB	G	TN
	S35XF44	XTFlex	3.5	8	All	7	7	6	8	M	I	MB	P	BL	LT	BR



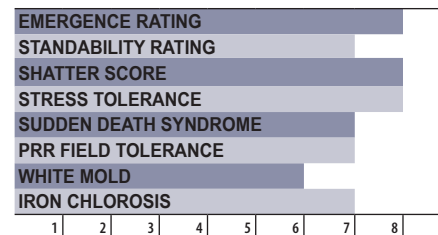
2.9 RM S29ES45 Brand



STS®
herbicide tolerant trait

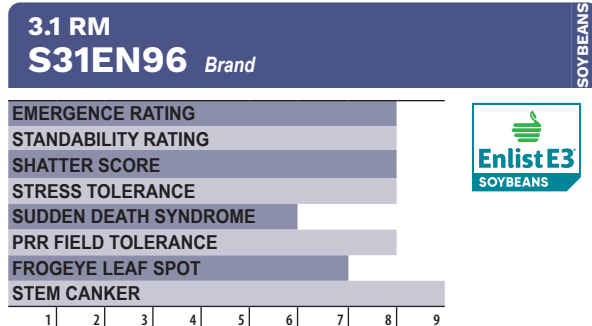
- Enlist E3® soybean and STS® introduction features parentage of Dyna-Gro's S35EN99
- Strong field tolerance for *Phytophthora* root rot and resistance for stem canker
- Medium-tall plant height with good lateral branching and very good standability
- Good tolerance scores for sudden death syndrome,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

3.0 RM S30XF07 Brand

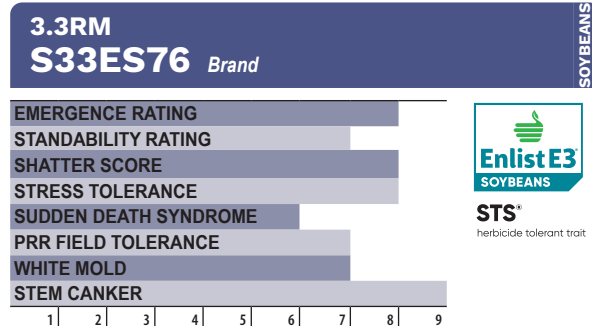


- Early group III XtendFlex® introduction features great agronomics and top performance
- Rps1k gene for *Phytophthora* root rot and resistance for brown stem rot
- Strong tolerance scores for iron deficiency chlorosis and sudden death syndrome
- Medium plant height with moderate lateral branching and very good standability scores
- Good yield stability across environments with excellent western adaptation

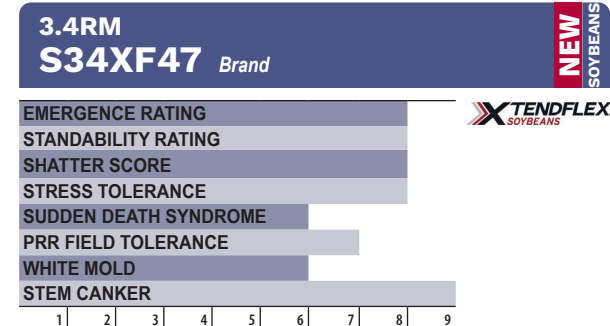
	DISEASE TOLERANCE														PRODUCT
	Soybean Cyst Nematode	SCN Source of Resistance	Phytophthora Resistance	Phytophthora Field Tolerance	Sclerotinia White Mold	Brown Stem Rot	Sudden Death Syndrome	Frogeye Leaf Spot	Stem Canker	Charcoal Rot	Cercospora Leaf Blight	Southern Root Knot Nematode	Metribuzin Tolerance	Chloride Sensitivity	Dyna-Gro Brand
	R3, MR14	PI88788	S	7	5	3	6	7	9	7	N/A	2	7	INC	S29ES45
	MR3	PI88788	Rps1k	7	6	8	7	7	9	6	N/A	2	7	INC	S30XF07
	R3	PI88788	Rps1c	8	5	3	6	7	9	7	N/A	N/A	6	INC	S31EN96
	R3, MR14	PI88788	S	7	6	9	6	6	9	6	6	N/A	N/A	INC	S31EN14
	R3	PI88788	HRps1c	7	7	3	6	N/A	9	7	N/A	N/A	7	INC	S33ES76
	R3,MR14	PI88788	Rps1c,HR3a	7	6	9	6	5	9	N/A	N/A	2	5	INC	S34XF47
	R3, MR14	PI88788	Rps3a	7	5	9	6	4	9	N/A	N/A	2	5	EXC	S35XF44



- Early-group III Enlist E3® soybean introduction features broad adaptability across environments east to west
- Rps1c gene with excellent field tolerance for *Phytophthora* root rot
- Medium-tall plant height with moderate lateral branching and excellent standability
- Above average tolerance scores for sudden death syndrome and charcoal rot



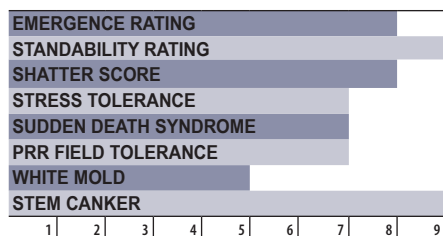
- Mid-group III Enlist E3® soybean and STS® release with superior yield performance and broad adaptability east to west
- Medium-plus plant height, moderately-bushy canopy type and very good standability
- Heterozygous for the Rps1c gene for *Phytophthora* root rot with very good field tolerance
- Above average tolerance for sudden death syndrome and *Sclerotinia* white mold



- Mid-group III XtendFlex® introduction features broad adaptability east to west
- Rps1c and heterozygous for Rps3a genes for *Phytophthora* root rot and resistance for brown stem rot
- Medium-tall plant height with good lateral branching and excellent standability
- Good yield stability across environments with excellent western adaptation
- Fungicide seed treatments suggested for sudden death syndrome protection

	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
	S35ES56	ENLIST/STS	3.5	8	All	9	7	6	8	M	I	M	W	BL	LT	BR
	S36EN36	ENLIST	3.6	8	All	7	8	5	8	M/T	I	MB	P	BL	LT	BR
	S37ES52	ENLIST/STS	3.7	7	All	7	8	6	8	M	I	MB	P	BL	LT	BR
	S37XF15	XTFlex	3.7	8	All	7	8	5	7	M/T	I	MB	P	IB	G	BR
	S38EN75	ENLIST	3.8	8	All	8	8	6	8	M	I	M	W	BL	LT	BR
NEW	S39XF87S	XTFlex/STS	3.9	8	All	7	8	5	8	M/T	I	MB	W	BL	LT	BR
	S40EN54	ENLIST	4.0	8	All	7	7	N/A	8	M/T	I	M	P	BL	LT	TN
NEW	S41EN17	ENLIST	4.1	7	All	7	8	5	8	M/T	I	MB	P	BL	LT	TN

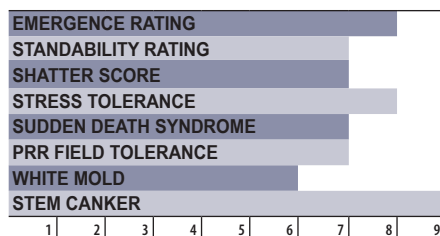
3.5RM S35ES56 Brand



STS®
herbicide tolerant trait

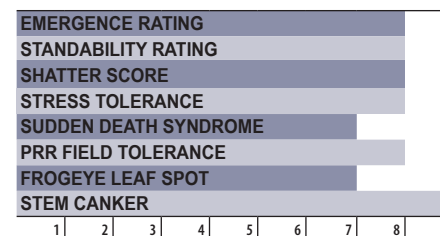
- Mid-group III Enlist E3® soybean with STS® release brings exceptional performance in productive environments
- Rps1c gene with good field tolerance for *Phytophthora* root rot and resistance for cyst nematode
- Resistance for stem canker and above average tolerance for sudden death syndrome
- Medium compact plant height with moderate lateral branching and excellent standability scores

3.7 RM S37XF15 Brand



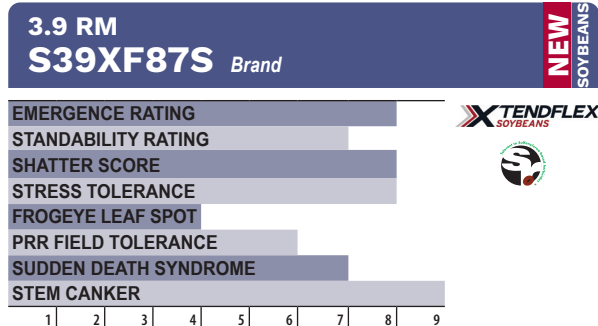
- XtendFlex® soybean introduction features the next level of performance for its maturity
- Resistance for stem canker and very good sudden death syndrome tolerance
- Medium-tall plant height with good lateral branching and very good standability
- Rps1c gene with very good field tolerance for *Phytophthora*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

3.8 RM S38EN75 Brand

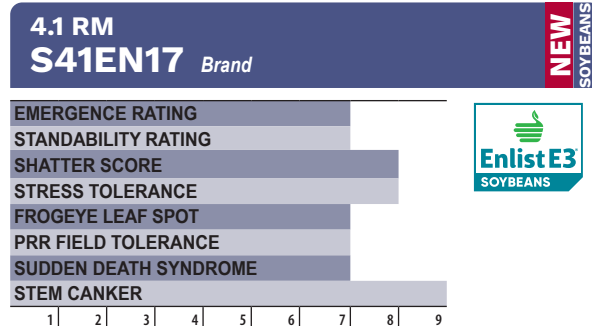


- Enlist E3® soybean introduction featuring the proven parentage of Dyna-Gro's S2872N
- Very good tolerance scores for frog-eye leaf spot and sudden death syndrome
- Medium-plus plant height with moderate lateral branching and strong standability scores
- Rps1k gene for *Phytophthora* root rot and resistance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

	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	7	5	3	7	N/A	9	6	N/A	2	7	INC	S35ES56
	R3, MR14	PI88788	Rps1k	8	N/A	3	6	7	9	7	N/A	2	7	INC	S36EN36
	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
	R3	PI88788	Rps1k	8	N/A	3	7	7	9	7	N/A	2	7	INC	S38EN75
	MR3	PI88788	Rps1c	6	N/A	N/A	7	4	9	N/A	N/A	2	N/A	EXC	S39XF87S
	R3	PI88788	Rps1c	7	N/A	N/A	6	8	9	6	7	2	6	INC	S40EN54
	R3,MR14	PI88788	S	7	N/A	N/A	7	7	9	7	N/A	2	7	EXC	S41EN17



- XtendFlex® and SR trait platform that features excellent yield stability across environments
- Medium-tall plant height with a moderate bushy canopy type and very good standability
- Resistance for stem canker and Rps1c gene for *Phytophthora* root rot
- Performance is best in its maturity zone of adaptation
- Planned fungicide program may be warranted for frogeye leaf spot control

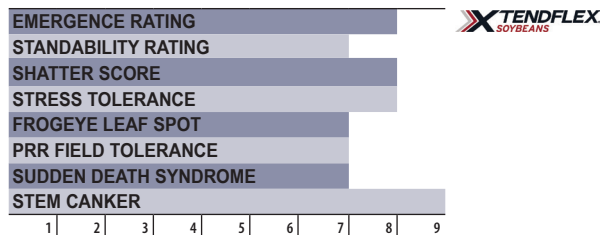


- Early group IV Enlist E3® soybean release has very good adaptation across yield environments and soil types
- Resistance for stem canker with very good tolerance for sudden death syndrome
- Very good tolerance scores for frogeye leaf spot and *Phytophthora* root rot
- Medium-tall plant height with very good standability and strong stress tolerance



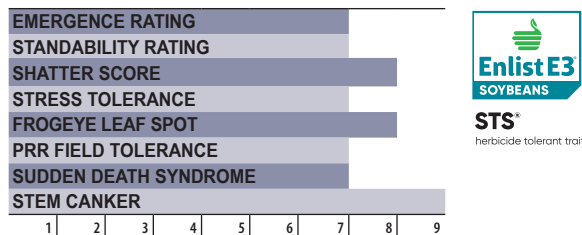
	PRODUCT			PRODUCTION						PLANT ATTRIBUTES						
	Dyna-Gro Brand	Technology	Maturity	Emergence	Row Width	Standability	Stress Tolerance	Iron Deficiency Chlorosis	Shatter Resistance	Plant Height	Plant Type	Canopy Type	Flower Color	Hilum Color	Pubescence	Pod Color
	S41XF65	XTFlex	4.1	8	All	7	8	7	8	M/T	I	MB	P	BL	LT	BR
	S41EN72	ENLIST	4.1	9	All	7	9	N/A	8	M/T	I	MB	W	BR	LT	BR
	S43XF85S	XTFlex/STS	4.3	8	All	7	8	5	8	M/T	I	M	W	BL	LT	BR
NEW	S43ES97	ENLIST/STS	4.3	7	All	7	7	N/A	8	M	I	MB	P	BL	LT	BR
	S45ES10	ENLIST/STS	4.5	7	All	7	8	6	8	M/T	I	MB	W	BR	T	BR
NEW	S45XF47S	XTFlex/STS	4.5	7	All	7	8	5	8	M/T	I	MB	P	BL	LT	BR
	S46XF26S	XTFlex/STS	4.6	8	All	6	8	4	8	T	I	B	W	BL	LT	BR

4.1 RM S41XF65 Brand



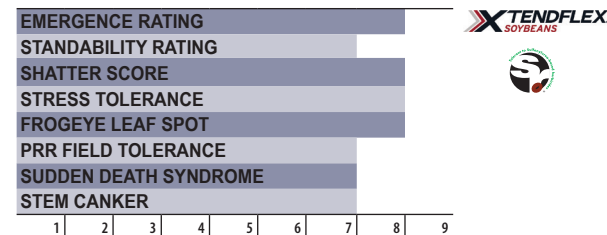
- Early group IV XtendFlex® soybean introduction features excellent yield stability across environments
- Very good tolerance scores for sudden death syndrome and frogeye leaf spot
- Medium-tall plant height with very good lateral branching and good standability
- Rps1c gene and very good field tolerance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

4.3 RM S43ES97 Brand



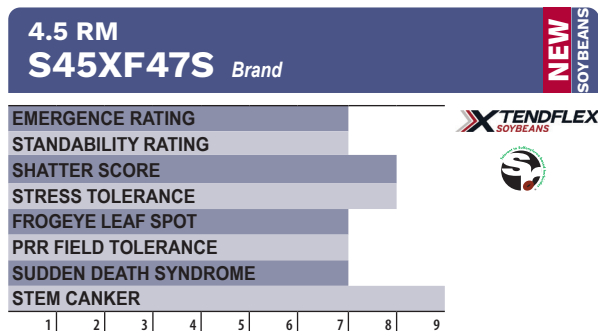
- Mid-group IV Enlist E3® soybean release features solid agronomics and broad adaptability east to west
- Rps1k gene for *Phytophthora* root rot with resistance to cyst nematode and stem canker
- Medium plant height with very good standability and excellent eye appeal
- Strong scores for sudden death syndrome and frogeye leaf spot
- STS® trait for sulfonyleurea herbicide tolerance and chloride salt excluder

4.3 RM S43XF85S Brand

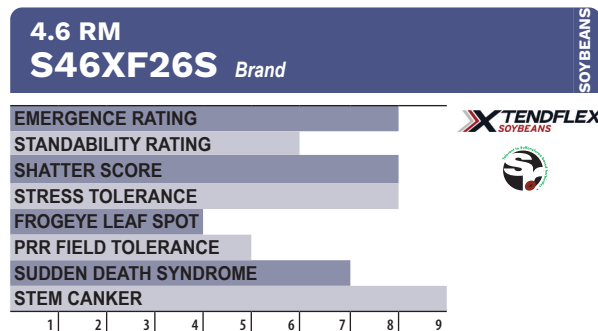


- XtendFlex® introduction that excels across high yield environments
- Strong frogeye leaf spot tolerance and very good field tolerance for *Phytophthora* root rot
- Medium-tall plant height with moderate lateral branching and good standability
- Very good tolerance for sudden death syndrome
- Broad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

	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
	R3, MR14	PI88788	S	6	N/A	N/A	6	7	9	N/A	6	2	6	INC	S41EN72
	MR3, MR14	PI88788	S	7	N/A	N/A	7	8	7	6	N/A	4	6	INC	S43XF85S
	R3,MR14	PI88788	Rps1k	7	N/A	N/A	7	8	9	6	7	2	7	EXC	S43ES97
	R3, MR14	PI88788	S	7	N/A	N/A	6	7	9	N/A	N/A	2	7	EXC	S45ES10
	MR3	PI88788	Rps1a	7	N/A	N/A	7	7	9	7	7	2	7	EXC	S45XF47S
	MR3	PI88788	Rps1c	5	N/A	N/A	7	4	9	N/A	N/A	4	5	EXC	S46XF26S



- XtendFlex® and STS® release features the excluder gene for chloride salts and adaptability for all soil types
- Very good tolerance for sudden death syndrome and frogeye leaf spot with resistance for stem canker
- Taller plant height, moderate-bushy canopy type and very good standability for height
- Rps1a gene with very good field tolerance for *Phytophthora* root rot
- Broadly adapted from Kansas to the East Coast and south throughout the Delta region

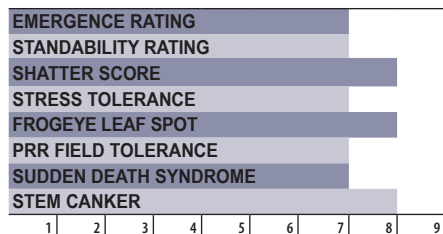


- XtendFlex® soybean and STS® release that features exceptional performance for the Delta on heavier soil types
- Rps1c gene for *Phytophthora* root rot and good tolerance for sudden death syndrome
- Chloride salt excluder and resistance for stem canker
- Taller plant height with a bushy plant type that is ideal for wider row widths
- A planned fungicide program may be warranted for frogeye leaf spot control



	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
	S47XF23S	XTFlex/STS	4.7	8	All	7	8	6	8	M/T	I	MB	P	BL	LT	TN
	S47ES36	ENLIST/STS	4.7	7	All	7	7	5	8	M/T	I	MB	P	IB	G	TN
	S48XF35	XTFlex	4.8	7	All	7	8	6	7	M/T	I	MB	P	BL	LT	BR
	S48ES56	ENLIST/STS	4.8	8	All	6	8	5	8	M/T	I	MB	P	BL	LT	BR
	S49XF43S	XTFlex/STS	4.9	7	All	7	8	4	8	M/T	I	MB	W	BF	G	TN
NEW	S50ES87	ENLIST/STS	5.0	8	All	6	8	4	8	T	I	MB	P	IB	G	TN
	S52XF76S	XTFlex/STS	5.2	7	All	7	8	5	8	M/T	I	MB	P	BL	LT	TN

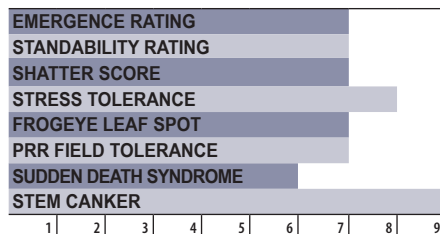
4.7 RM S47ES36 Brand



STS®
herbicide tolerant trait

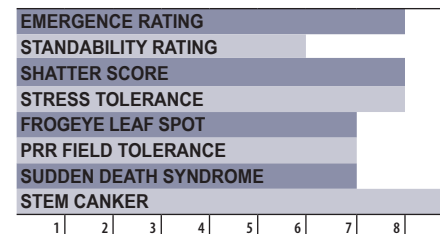
- Enlist E3® soybean with STS® release features a unique set of defensive agronomics
- Moderate resistance for southern root knot nematode and excluder for chloride salts
- Rps1c and 3a genes for *Phytophthora* root rot with resistance for stem canker
- Medium-tall plant height, very good lateral branching and solid standability scores
- Strong tolerance for sudden death syndrome and frogeye leaf spot

4.8 RM S48XF35 Brand



- 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

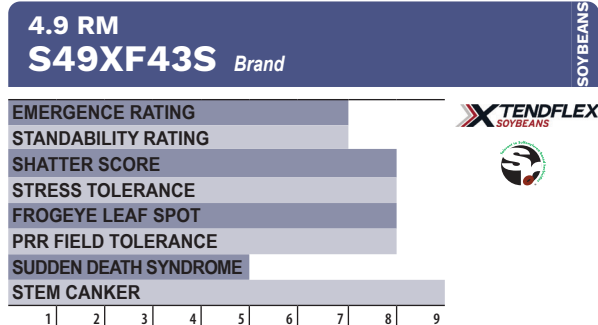
4.8 RM S48ES56 Brand



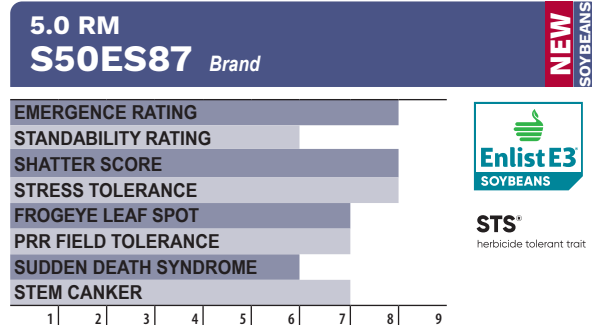
STS®
herbicide tolerant trait

- Late group IV Enlist E3® soybean with STS® release features broad adaptability across environments
- Very good tolerance for frogeye leaf spot and resistance for stem canker
- Medium-tall plant height with very good lateral branching and good standability for height
- Strong tolerance scores for sudden death syndrome and *Phytophthora* root rot

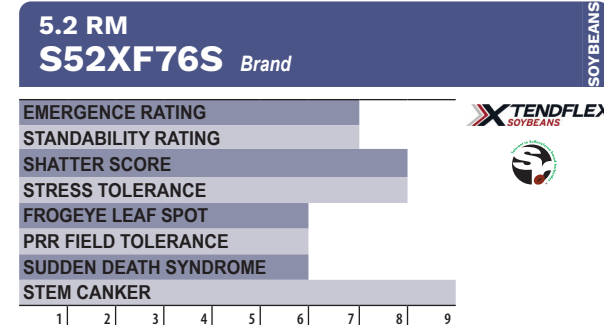
DISEASE TOLERANCE														PRODUCT
Soybean Cyst Nematode	SCN Source of Resistance	Phytophthora Resistance	Phytophthora Field Tolerance	Sclerotinia White Mold	Brown Stem Rot	Sudden Death Syndrome	Frogeye Leaf Spot	Stem Canker	Charcoal Rot	Cercospora Leaf Blight	Southern Root Knot Nematode	Metribuzin Tolerance	Chloride Sensitivity	Dyna-Gro Brand
R3	PI88788	Rps1c	6	N/A	N/A	6	5	9	N/A	N/A	2	7	EXC	S47XF23S
MR3	PI88788	Rps1c,3a	7	N/A	N/A	7	8	8	6	N/A	7	8	EXC	S47ES36
MR3	PI88788	Rps1c	7	N/A	N/A	6	7	9	7	N/A	3	7	INC	S48XF35
MR3	PI88788	Rps1a	7	N/A	N/A	7	7	9	N/A	7	2	7	INC	S48ES56
MR3	PI88788	Rps1k	8	N/A	N/A	5	8	9	7	N/A	3	8	INC	S49XF43S
MR3	PI88788	Rps1k,3a	7	N/A	N/A	6	7	7	6	N/A	7	8	EXC	S50ES87
R3	PI88788	Rps1c	6	N/A	8	6	6	9	N/A	N/A	2	6	EXC	S52XF76S



- XtendFlex® soybean release is the 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 a fungicide seed treatment for added protection for sudden death syndrome



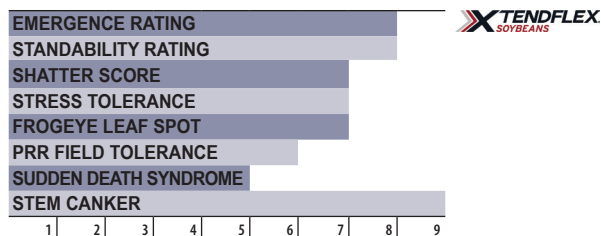
- Early group V indeterminate Enlist E3® soybean with STS® release features broad adaptability across environments
- Excluder for chloride salts and moderate resistance for southern root knot nematode
- Above average tolerance scores for frogeye leaf spot and sudden death syndrome
- Taller plant height with nice lateral branching and good standability for height
- Strong stress tolerance and ideal for placement both full season and double-crop plantings



- Indeterminate early group V XtendFlex® soybean & STS® with broad adaptability across environments
- Resistance for stem canker with the Rps1c gene for *Phytophthora* root rot
- Chloride salt excluder with resistance for cyst nematode
- Medium-tall plant height, moderate-bushy plant type and very good standability
- A planned fungicide program may be warranted for frogeye leaf spot control

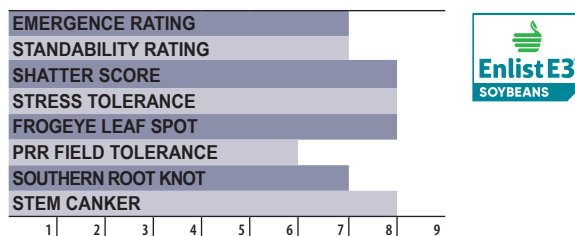
	PRODUCT			PRODUCTION						PLANT ATTRIBUTES						
	Dyna-Gro Brand	Technology	Maturity	Emergence	Row Width	Standability	Stress Tolerance	Iron Deficiency Chlorosis	Shatter Resistance	Plant Height	Plant Type	Canopy Type	Flower Color	Hilum Color	Pubescence	Pod Color
	S55XF95	XTFlex	5.5	8	All	8	7	N/A	7	M/S	D	MB	W	BL	T	TN
NEW	S56EN47	ENLIST	5.6	7	All	7	8	5	8	T	D	MB	P	IB	G	TN
	S58XF24	XTFlex	5.8	8	All	7	8	N/A	8	M	D	MB	W	BL	T	TN
NEW	S60ES97	ENLIST/STS	6.0	8	All	7	8	5	8	M/S	D	B	P	BF	G	TN
NEW	S63XF07	XTFlex	6.3	7	All	6	8	N/A	8	T	D	MB	P	BL	T	BR
	S68XF16S	XTFlex/STS	6.8	8	All	6	9	N/A	8	T	D	B	P	BL	T	BR
	S71XF93	XTFlex	7.1	8	All	7	8	N/A	8	M/T	D	MB	P	BL	T	TN

5.5 RM S55XF95 Brand



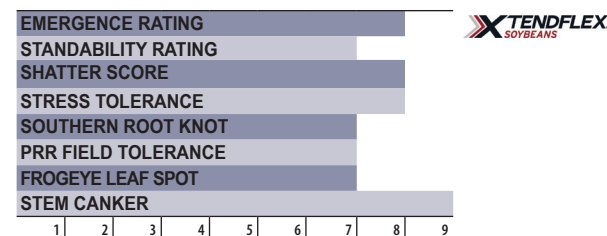
- Mid-group V determinate XtendFlex® soybean introduction for the Delta and East Coast regions
- Intermediate resistance for southern root knot nematode and excluder for chloride salts
- Peking source of resistance for cyst nematode with very good frogeye leaf spot tolerance
- Medium-short plant height,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

5.6 RM S56EN47 Brand



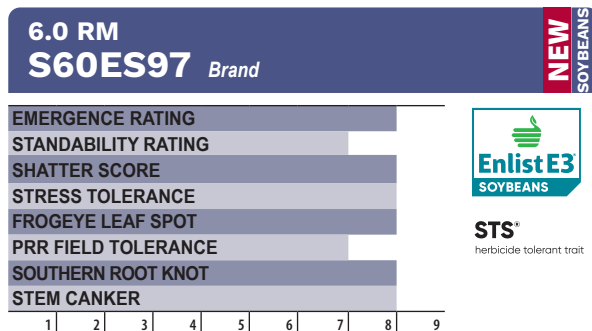
- Mid group V determinate Enlist E3® soybean release that features moderate resistance to southern root knot
- Tall plant height with very good lateral branching and good standability for height
- Resistance for stem canker, excluder for chloride salts and strong tolerance for frogeye leaf spot
- Consider a fungicide seed treatment for added protection for sudden death syndrome

5.8 RM S58XF24 Brand

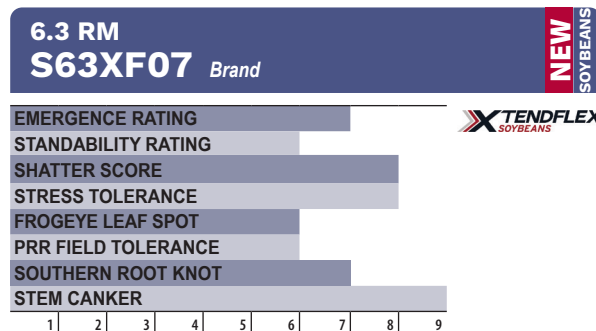


- XtendFlex® soybean release features resistance for both southern and peanut root knot nematodes
- Peking source of resistance for cyst nematode and excluder for chloride salts
- Medium plant height with good lateral branching and very good standability
- Very good tolerance for frogeye leaf spot and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

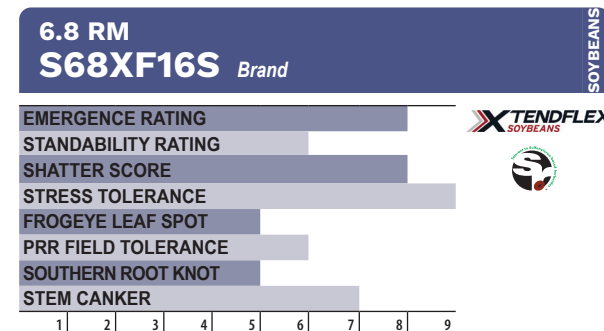
	DISEASE TOLERANCE														PRODUCT
	Soybean Cyst Nematode	SCN Source of Resistance	Phytophthora Resistance	Phytophthora Field Tolerance	Sclerotinia White Mold	Brown Stem Rot	Sudden Death Syndrome	Frogeye Leaf Spot	Stem Canker	Charcoal Rot	Cercospora Leaf Blight	Southern Root Knot Nematode	Metribuzin Tolerance	Chloride Sensitivity	Dyna-Gro Brand
	MR1, R3	Peking	S	6	N/A	N/A	5	7	9	N/A	N/A	6	7	EXC	S55XF95
	MR3, MR14	PI88788	S	6	N/A	N/A	5	8	9	7	N/A	7	7	EXC	S56EN47
	R1, R3	Peking	S	7	N/A	N/A	6	7	9	N/A	N/A	7	6	EXC	S58XF24
	MR3, MR14	PI88788	Rps1c	7	N/A	N/A	5	8	8	7	N/A	8	7	EXC	S60ES97
	R1, R3	Peking	S	6	N/A	N/A	N/A	6	9	N/A	N/A	7	7	EXC	S63XF07
	S	N/A	HRps1c	6	N/A	N/A	N/A	5	7	N/A	N/A	5	5	EXC	S68XF16S
	S	N/A	S	6	N/A	N/A	5	5	9	N/A	N/A	7	4	EXC	S71XF93



- Determinate group VI Enlist E3® with STS® soybean line features resistance for southern root knot nematode
- Excluder for chloride salts and very good tolerance for frogeye leaf spot
- Medium-short plant with excellent lateral branching and very good standability
- Very good tolerance for charcoal rot and strong ability to handle stress environments
- Consider a fungicide seed treatment for added protection for sudden death syndrome



- Early group VI XtendFlex® introduction features resistance for southern root knot nematode
- Peking source of resistance for cyst nematode and excluder for chloride salts
- Tall plant height with moderate lateral branching and good standability for height
- Average tolerance for frogeye leaf spot and may warrant a foliar fungicide program



- Determinate late group VI XtendFlex® soybean & STS® introduction that is ideal for lighter soils and stress environments
- Intermediate tolerance for Southern root knot nematode and excluder for chloride salts
- Taller plant height with nice lateral branching for wider row widths and average standability scores
- A planned fungicide program may be warranted for frogeye leaf spot control



WHEAT

At home on any acre.

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

DYNAGRO[®]
SEED

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

WHEAT TABLE OF CONTENTS

Soft Red Winter Wheat	58-63
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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:

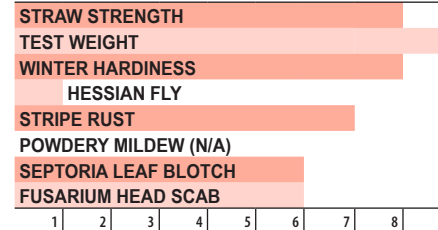
- Aphids (including Bird cherry-oat, English grain, Greenbug, and Russian wheat aphid)
- Wireworms
- Hessian fly

	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											
	9120	E	M	8	9	Awned	E	1	7	7	n/a
	9570	E	M	7	7	Awned	VG	8	6	6	8
	9151	ME	M	8	9	Awned	VG	3	6	8	7
	9231	ME	M	7	8	Awned	E	7	6	7	8



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

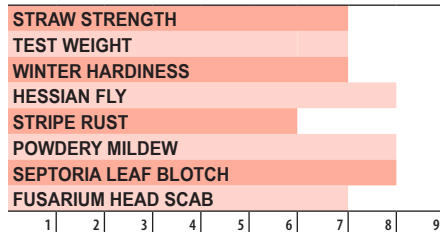
MANAGEMENT TIPS

- 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
6	n/a	n/a	6	7	3	1.4 to 1.9	MWA, EA	9120
8	7	8	7	6	8	1.5 to 2.0	MWA, MSA, EA	9570
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

Early 9570 *Soft Red Winter*

WHEAT



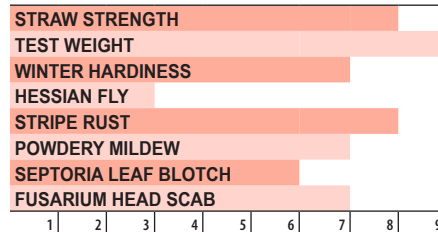
- Early maturity with broad adaptability, works on all soil types
- Fhb1 type II Fusarium head scab resistance marker
- Late jointing for early maturity to lessen freeze injury potential
- Early maturity with excellent yield, massive head size
- Excellent stripe rust resistance

MANAGEMENT TIPS

- Ideal variety for the double crop market
- Excellent Hessian Fly protection

Medium-Early 9151 *Soft Red Winter*

WHEAT



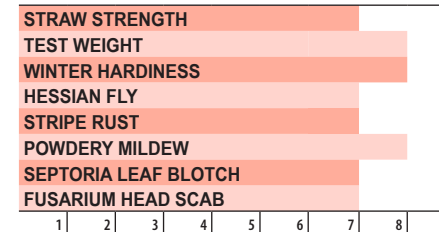
- Combines outstanding test weight and yield potential
- Fhb1 type II Fusarium head scab resistance marker
- Good stripe rust resistance, but scout and treat for other foliar diseases
- Yield history is the strongest in the lower Midwest

MANAGEMENT TIPS

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

Medium-Early 9231 *Soft Red Winter*

WHEAT



- High yielding variety for the MO, IL, KY, IN & OH markets
- Fhb1 type II Fusarium head scab resistance marker
- Excellent overall plant health package
- Excellent in wet and sandy soils
- Medium-early maturity

MANAGEMENT TIPS

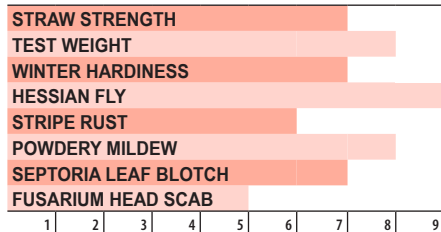
- This variety is ideal for tough acres
- Manage standability in high yield environments

	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											
	Plantation	ME	M	7	8	Awned	VG	9	7	6	8
	9172	M	M	8	7	Awned	E	2	8	8	7
	9862	M	M	8	9	Awnless	E	9	6	8	7
	9332	M	M	7	8	Awned	n/a	7	n/a	9	n/a
	9422	M	M	8	8	Awned	E	7	6	5	8

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

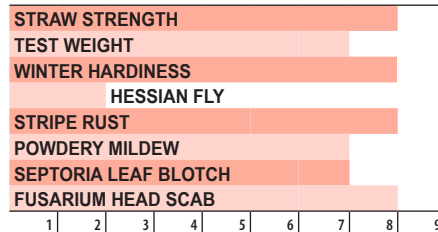
MANAGEMENT TIPS

- 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.

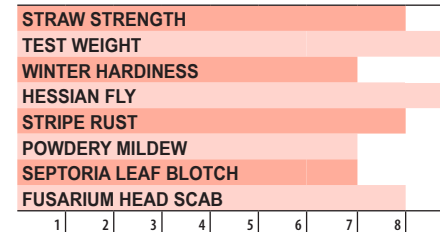
MANAGEMENT TIPS

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

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

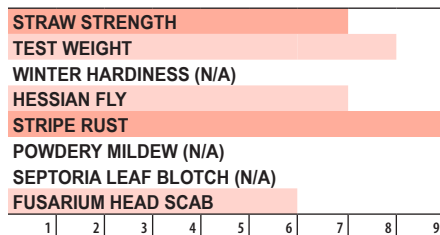
MANAGEMENT TIPS

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

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	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	N/A	8	7	7	1.5 to 2.0	MWA, MSA, EA	9862
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

Medium 9332 *Soft Red Winter*

WHEAT



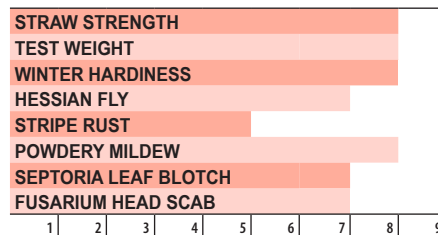
- Low vernalization variety for the South region
- Excellent agronomics with improved stripe rust resistance
- Exclusive to the Dyna-Gro Brand
- Excellent test weight
- Strong yield history in the Gulf states

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*

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



WHEAT

SOFT RED WINTER WHEAT

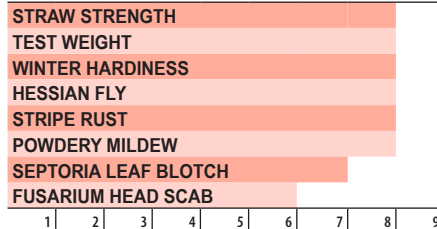
	PRODUCT		GROWTH						DISEASE TOLERANCE		
	Dyna-Gro Brand	Relative Maturity	Plant Height	Straw Strength	Test Weight	Awn Type	Winter Hardiness	Hessian Fly	Leaf Rust	Stripe Rust	Powdery Mildew
SOFT RED WINTER WHEAT VARIETIES											
	9393	ML	M	8	8	Awned	E	8	7	8	8
	9533	ML	M	9	7	Awnless	E	7	6	8	6
	9593	ML	M	8	8	Awned	VG	8	7	8	8
NEW	9632	M	MT	8	8	Awned	E	2	7	8	7
NEW	9623	ML	MS	8	9	Awned	n/a	9	8	8	8



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

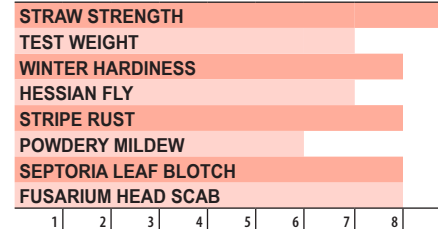
MANAGEMENT TIPS

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

Medium-Late

9533 *Soft Red Winter*

WHEAT



- A step change in yield performance
- An exciting awnless variety for all markets
- Fhb1 type II Fusarium head scab resistance marker
- Widely adapted to most soil types
- Excellent standability

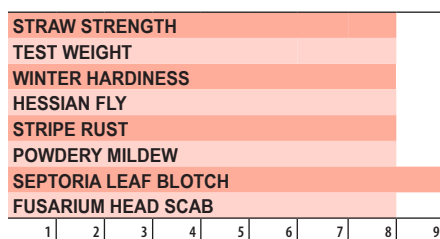
MANAGEMENT TIPS

- This variety is greatly improved with a foliar fungicide
- Strong yield potential for higher managed situations

								PRODUCT
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	Dyna-Gro Brand
7	7	8	6	7	8	1.5 to 2.0	EA, SA, ECBA	9393
8	8	N/A	8	N/A	8	1.5 to 2.0	MWA, MSA, SA, EA	9533
8	8	5	8	8	7	1.5 to 2.0	MWA, MSA, SA, EA	9593
7	7	8	8	3	7	1.5 to 2.0	MWA, MSA, SA, EA	9632
7	8			7		1.5 to 2.0	SA	9623

Medium-Late 9593 *Soft Red Winter*

WHEAT



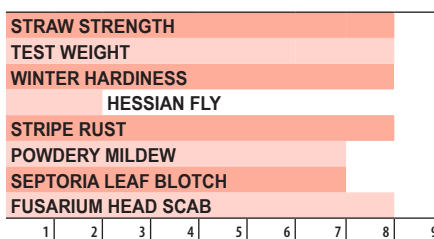
- Complete package! Broad adaptability, strong yield & excellent agronomics
- Fhb1 type II Fusarium head scab resistance marker
- Extremely consistent performance across all geographies
- Excellent standability, especially in high yield environments
- Fits all soil types and management styles

MANAGEMENT TIPS

- Plant this variety with confidence!
- This variety works well across geographies, soil types and management styles

Medium 9632 *Soft Red Winter*

NEW WHEAT



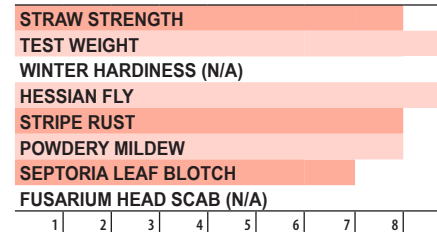
- New for 2026! Broad adaptability, strong yield & excellent agronomics
- Fhb1 type II Fusarium head scab resistance marker
- Extremely consistent performance across all geographies
- Beautiful showy variety with massive head size
- Fits all soil types and management styles

MANAGEMENT TIPS

- Plant this variety with confidence!
- This variety works well across geographies, soil types and management styles

Medium-Late 9623 *Soft Red Winter*

NEW WHEAT



- New for 2026! Strong low vernalization variety with excellent agronomics
- Excellent agronomic package able to handle most low vernalization environments
- Excellent for areas with Hessian fly pressure
- Great ratings for stripe rust and test weight

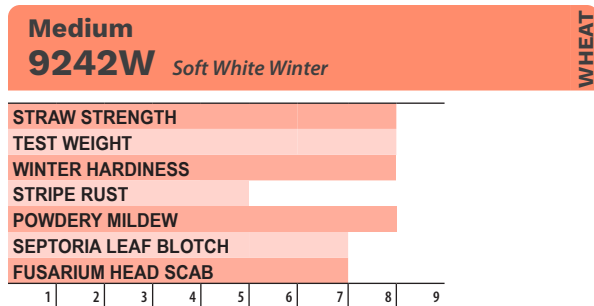
MANAGEMENT TIPS

- Excellent Hessian Fly protection
- Consider a head scab suppressing fungicide at flowering

	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	Awned	8	N/A	7	5	8
NEW	9641W	ME	M	8.5	8	Awned	9	N/A	7	7	8



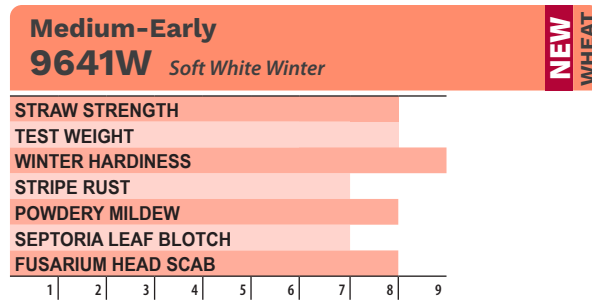
Septoria Leaf Blotch	Stagnospora Glume Blotch	Yellow Mosaic (WSSM)	Fusarium Head Scab	Soilborne Mosaic Virus	Barley Yellow Dwarf	Seeding Rate/Million Seeds Per Acre	Area of Adaptation	PRODUCT
7	7	N/A	7	N/A	7	1.6 to 1.8	MI,OH,NY	9242W
7	N/A	N/A	8	8	N/A	1.8 to 2.2	MI,OH,NY	9641W



- 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



- New for 2026! High yielding soft white variety with excellent milling and baking quality
- 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

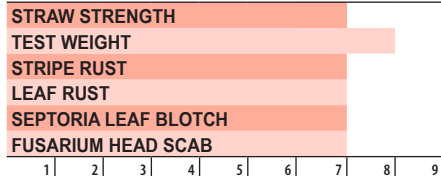
MANAGEMENT TIPS

- 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

Medium-Early Commander *Hard Red Spring*

WHEAT



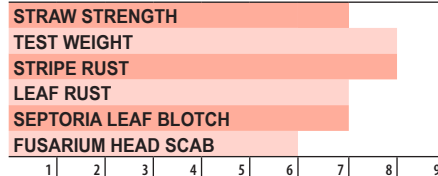
- Hard red spring wheat that compliments our popular Ambush variety
- CSO variety, farmers are required to sign a No Saved Seed agreement
- Widely adapted to many areas of MT, ND, MN, and SD
- A well balanced variety, with slightly more yield and slightly less protein than Ambush
- Improved resistance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



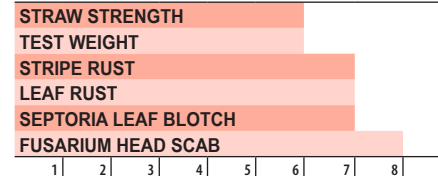
- Unique hard red spring wheat that is widely adapted to a large geography and most soil types
- Above average protein combined with good yields
- Great straw strength for soils with lodging concerns
- Strong agronomics against stripe rust and bacterial leaf streak

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*

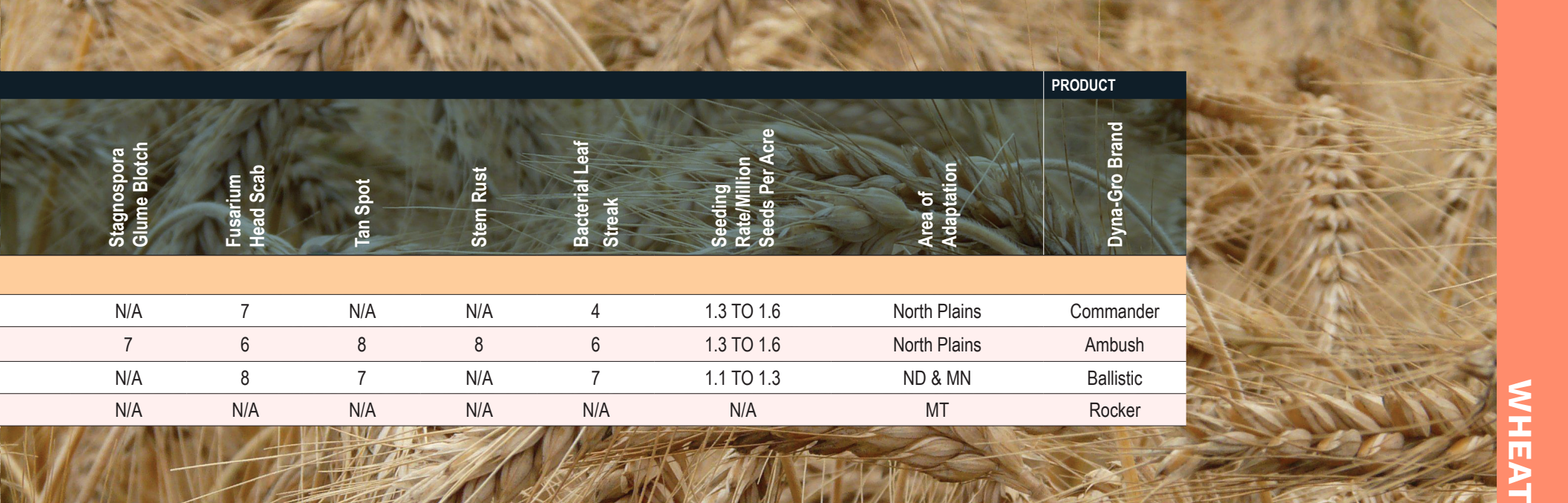
WHEAT



- 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

WHEAT

Medium Rocker *Hard Red Spring*

WHEAT

STRAW STRENGTH

TEST WEIGHT

STRIPE RUST (N/A)

LEAF RUST (N/A)

SEPTORIA LEAF BLOTCH (N/A)

FUSARIUM HEAD SCAB (N/A)

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9

- #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

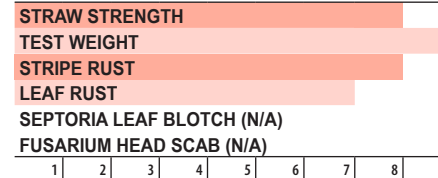


HARD RED SPRING WHEAT

	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										
	Holmes	M	M	8	9	9	Awned	7	8	N/A
	8582	M	M	8	8	7	Awned	7	7	7
	Presser CLP	ML	M	7	7	5	Awned	N/A	N/A	N/A



Medium Holmes *Hard Red Spring*



- 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

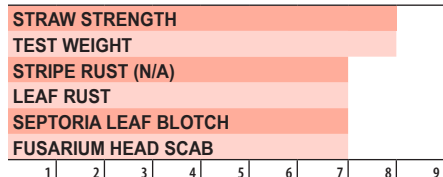
MANAGEMENT TIPS

- Do not seed too heavy under irrigation

Stagnospora Glume Blotch	Fusarium Head Scab	Tan Spot	Stem Rust	Bacterial Leaf Streak	Seeding Rate/Million Seeds Per Acre	Area of Adaptation	PRODUCT
N/A	N/A	N/A	N/A	7	N/A	ID & MT	Holmes
N/A	7	N/A	N/A	N/A	1.3 TO 1.6	North Plains	8582
N/A	N/A	N/A	N/A	N/A	N/A	MT & ND	Presser CLP

Medium 8582 *Hard Red Spring*

WHEAT



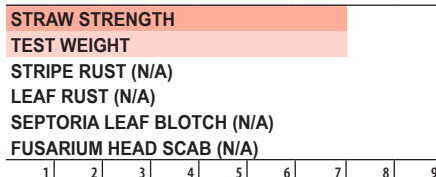
- High yielding variety with outstanding yield potential.
- Exclusive to the Dyna-Gro Brand
- Excellent agronomic package able to handle most environments
- An aggressively tillering variety with stiff straw and excellent standability
- Excellent variety for high management growers

MANAGEMENT TIPS

- Scout and apply fungicides as needed
- Seeding above 1.6 million seeds per acre is not recommended for acres not considered high management/high yield

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

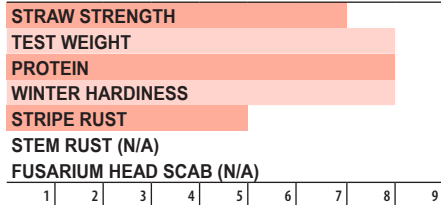
MANAGEMENT TIPS

- 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												
	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

Medium Milestone *Hard Red Winter*

WHEAT



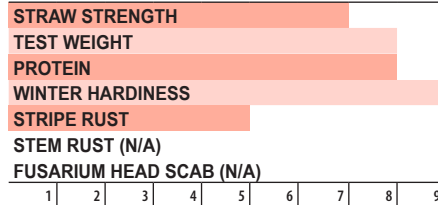
- Top yield potential
- Stripe rust tolerance
- Broadly adapted to irrigated and dryland
- Excellent protein and test weight
- Large seed size for improved vigor

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



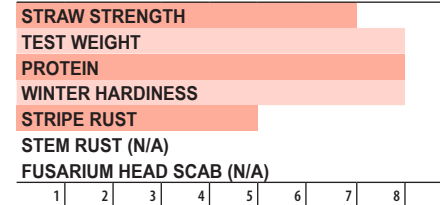
- Best combination of yield, sawfly tolerance, and Clearfield® technology
- Excellent yield potential
- Very good protein content
- Solid stem for sawfly tolerance
- Very good disease package

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*

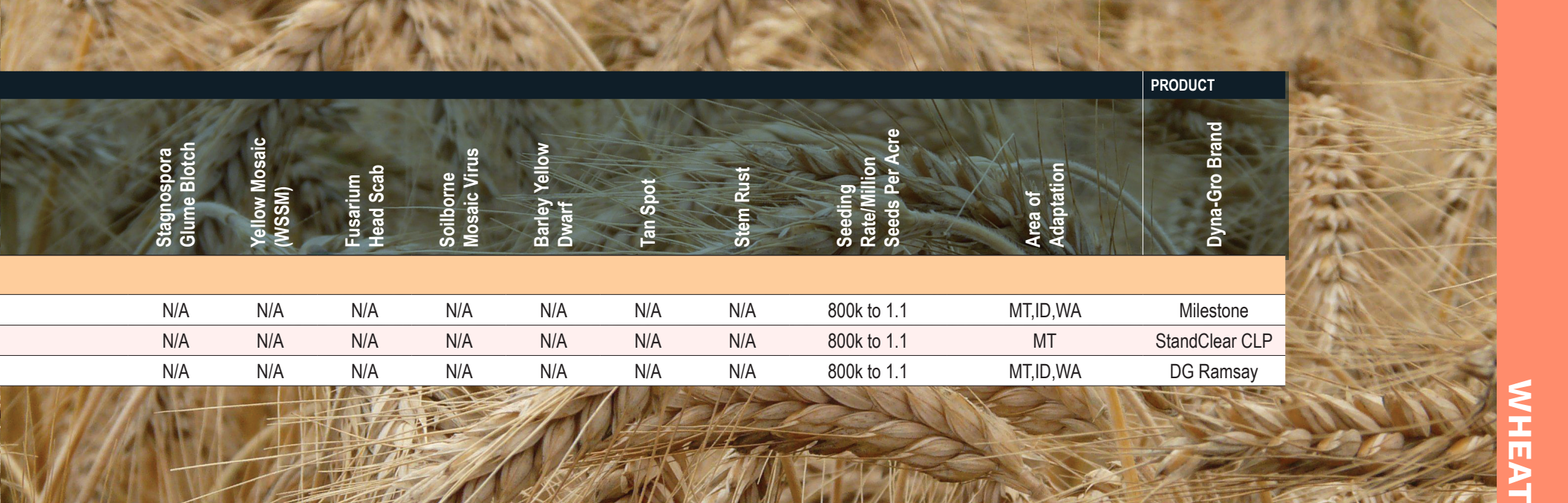
WHEAT



- 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



WHEAT

										PRODUCT
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		Dyna-Gro Brand
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



HARD RED WINTER WHEAT



COTTON

At home on any acre.

DYNAGRO
SEED

LEGEND

HERBICIDE TOLERANT TRAITS:

H = Halo Salt Tolerant Series™

XF = XtendFlex® Cotton

BXF = Bollgard® XtendFlex® Cotton

B2XF = Bollgard II® XtendFlex® Cotton

B3XF = Bollgard® 3 XtendFlex® Cotton

B3TXF = Bollgard® 3 Thryvon® Cotton with
Xtendflex® Technology

W3FE = Widestrike® 3 Enlist® Glyphosate
Tolerant 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.

COTTON TABLE OF CONTENTS

HALO Salt Tolerant Series™+

Bollgard® 3 XtendFlex® Cotton 73-74

XtendFlex® Cotton 76-77

Bollgard® II Xtendflex® Cotton 76-77

Bollgard® 3 XtendFlex® Cotton 78-81

Bollgard® 3 ThryvOn® Cotton
with XtendFlex® Technology 82-85

Widestrike® 3 Enlist®
Glyphosate Tolerant Cotton 86-87



Dyna-Gro Seed is proud to offer our unique 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.



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

PRODUCT				GROWTH							HARVEST		PRODUCT
Brand	Variety	Technology	Maturity	Seedling Vigor	Plant Height	Drought Tolerance	Storm Tolerance	% Gin Turnout	Micronaire Averages	Staple	Strength	% Uniformity	Variety
HALO SALT TOLERANT SERIES™ + BOLLGARD® 3 XTENDFLEX® COTTON													
H929 B3XF	H929	Halo / B3XF	Early	8	Compact	6	8	38 - 42%	4.30	1.14	30.3	82.50	H929
H357 B3XF	H357	Halo / B3XF	Medium	8	Med-Tall	8	9	38 - 42%	4.20	1.22	32.9	83.00	H357
H959 B3XF	H959	Halo / B3XF	Medium	8	Med-Tall	8	8	38 - 42%	4.30	1.18	31.0	82.00	H959

Early H929 Halo™/B3XF Brand

COTTON

- Bollgard® 3 XtendFlex® cotton + 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® cotton trait
- Bacterial blight resistant and good *Verticillium* tolerance
- Good salt and storm tolerance
- Very good seedling vigor - compact to medium plant height



Medium H357 Halo™/B3XF Brand

COTTON

- Bollgard® 3 XtendFlex® cotton + 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® cotton 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® cotton + HALO
- Enhanced with Halo Salt Tolerance Series™
- Adapted to the southern Cotton Belt, Carolinas, and areas south and east of the Caprock Escarpment
- 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



OUR BUNDLED FINANCING PROMOTIONS

+ IN-SEASON
WEED CONTROL

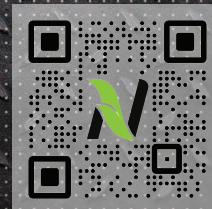
+ UNEXPECTED
REPAIR COSTS

= FINANCING THAT
GETS FARMING

The equation is
different with us.



**NUTRIEN
FINANCIAL™**



SCAN THE QR
CODE, OR CLICK,
TO DISCOVER
FINANCING OPTIONS
TODAY!

	PRODUCT				GROWTH		
	Brand	Variety	Technology	Maturity	Seedling Vigor	Plant Height	Drought Tolerance
XTENDFLEX® COTTON							
	2475 XF	2475	XF	Early-Med	7	Medium	7
	2425 XF	2425	XF	Medium	7	Med-Tall	7
BOLLGARD II® XTENDFLEX® COTTON							
	3385 B2XF	3385	B2XF	Early	7	Medium	7

Early-Medium 2475 XF Brand

COTTON



- XtendFlex® only cotton herbicide tolerance trait
- Broadly adaptable across the High Plains and Rolling Plains of Texas
- Medium plant height with smooth leaf characteristics
- Very good seedling vigor with above average fiber quality
- Above average *Verticillium* wilt tolerance and bacterial blight resistance
- Excellent storm tolerance
- Very good stress tolerance

Medium 2425 XF Brand

COTTON



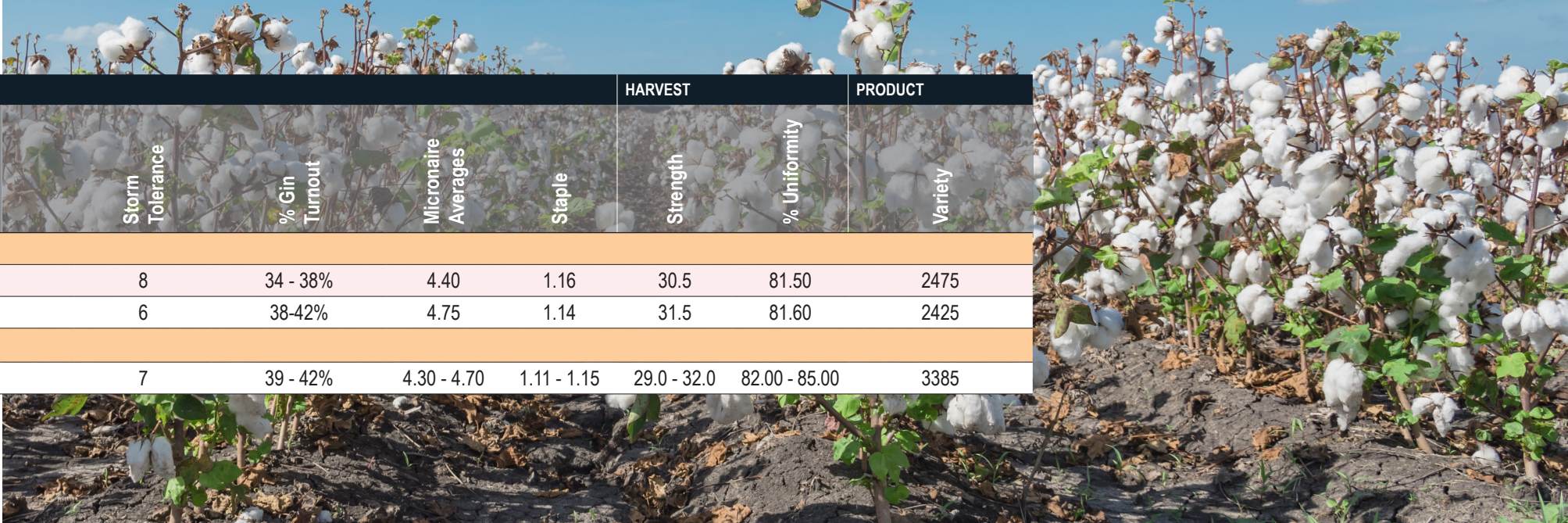
- XtendFlex® only cotton herbicide tolerance trait
- Adapted to the Southern High Plains and Rolling Plains of Texas
- Medium-tall plant height with smooth leaf characteristics
- Good seedling vigor and fiber quality
- Very good *Verticillium* wilt tolerance and bacterial blight resistance
- Good storm tolerance

Early 3385 B2XF Brand

COTTON



- Bollgard II® XtendFlex® cotton trait
- Modified bushy plant type with semi-smooth leaves
- Medium plant height with compact boll orientation
- Very responsive to irrigation and intense management
- Very broadly adapted from Arizona to Texas and across the northern Cotton Belt
- Good storm tolerance and seedling vigor
- Below average *Verticillium* wilt tolerance



					HARVEST		PRODUCT
Storm Tolerance	% Gin Turnout	Micronaire Averages	Staple		Strength	% Uniformity	Variety
8	34 - 38%	4.40	1.16		30.5	81.50	2475
6	38-42%	4.75	1.14		31.5	81.60	2425
7	39 - 42%	4.30 - 4.70	1.11 - 1.15		29.0 - 32.0	82.00 - 85.00	3385

COTTON



XTENDFLEX® + BOLLGARD II® XTENDFLEX® COTTON

	PRODUCT				GROWTH		
	Brand	Variety	Technology	Maturity	Seedling Vigor	Plant Height	Drought Tolerance
BOLLGARD® 3 XTENDFLEX® COTTON							
	3215 B3XF	3215	B3XF	Early	8	Med-Tall	8
	3387 B3XF	3387	B3XF	Early-Med	7	Medium	7
	3402 B3XF	3402	B3XF	Early-Med	8	Medium	7
	3422 B3XF	3422	B3XF	Early-Med	8	Medium	6
	3425 B3XF	3425	B3XF	Early-Med	8	Med-Tall	6
	3469 B3XF	3469	B3XF	Early-Med	7	Medium	7

Early 3215 B3XF Brand

COTTON

- Enhanced with the Bollgard® 3 XtendFlex® cotton 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® cotton 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
- Root knot nematode tolerant

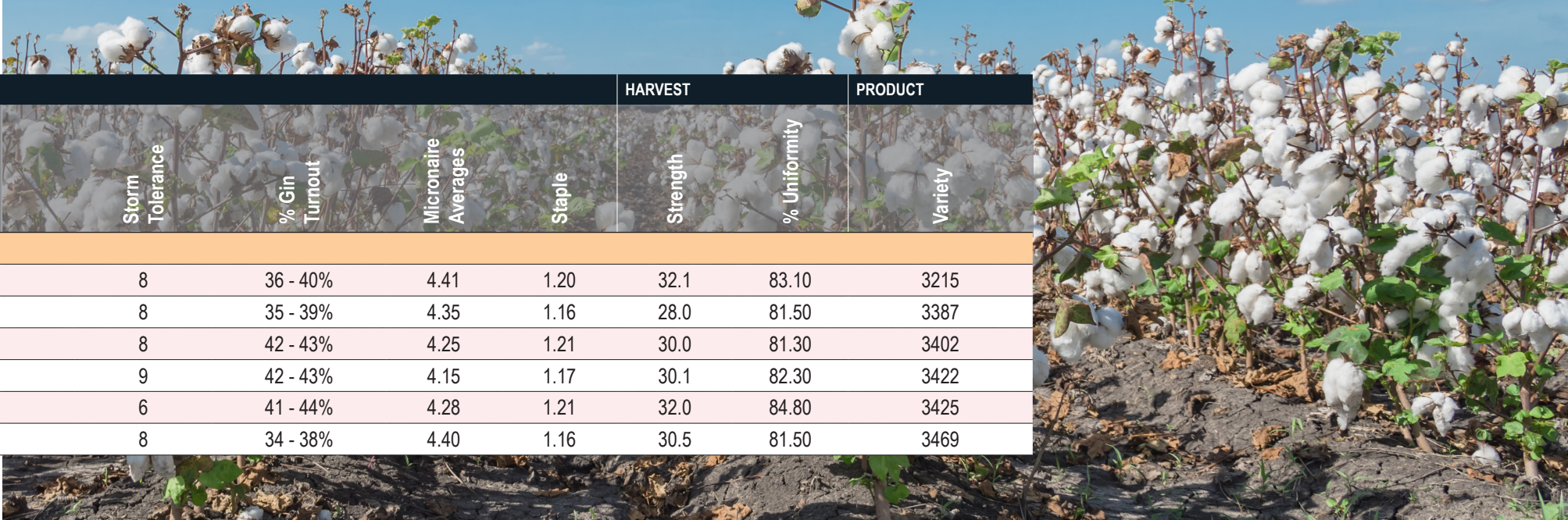


Early-Medium 3402 B3XF Brand

COTTON

- Enhanced with the Bollgard® 3 XtendFlex® cotton trait
- Broadly adaptable across the High Plains and Rolling Plains
- Medium plant height with smooth leaf characteristics
- Excellent fiber quality and seedling vigor
- Excellent storm tolerance
- Above average *Verticillium* wilt tolerance
- Great for dryland and irrigated





					HARVEST		PRODUCT
Storm Tolerance	% Gin Turnout	Micronaire Averages	Staple		Strength	% Uniformity	Variety
8	36 - 40%	4.41	1.20		32.1	83.10	3215
8	35 - 39%	4.35	1.16		28.0	81.50	3387
8	42 - 43%	4.25	1.21		30.0	81.30	3402
9	42 - 43%	4.15	1.17		30.1	82.30	3422
6	41 - 44%	4.28	1.21		32.0	84.80	3425
8	34 - 38%	4.40	1.16		30.5	81.50	3469

Early-Medium
3422 B3XF Brand

COTTON

- Enhanced with the Bollgard® 3 XtendFlex® cotton trait
- Broadly adaptable for the Plains and Coastal areas of Texas
- Medium plant height with smooth leaf characteristics
- Excellent fiber quality
- Very good seedling vigor
- Above average *Verticillium* wilt tolerance; bacterial blight susceptible
- Recommended for both dryland and irrigated acres
- Root knot nematode and Reniform nematode tolerance



Early-Medium
3425 B3XF Brand

COTTON

- Enhanced with the Bollgard® 3 XtendFlex® cotton trait
- Adapted to Texas and Northern Cotton Belt
- Medium plant height with smooth leaf characteristics
- Above average fiber quality and very good emergence
- Excellent *Verticillium* tolerance; bacterial blight susceptible
- Recommended for dryland and irrigated acres



Early-Medium
3469 B3XF Brand

COTTON

- Enhanced with the Bollgard® 3 XtendFlex® cotton trait
- Broadly adaptable across Texas, New Mexico, and Arizona
- Medium plant height with smooth leaf characteristics
- Very good seedling vigor with above average fiber quality
- Above average *Verticillium* wilt tolerance and bacterial blight resistance
- Excellent storm tolerance
- Very good stress tolerance



	PRODUCT				GROWTH		
	Brand	Variety	Technology	Maturity	Seedling Vigor	Plant Height	Drought Tolerance
BOLLGARD® 3 XTENDFLEX® COTTON							
	3503 B3XF	3503	B3XF	Medium	7	Med-Tall	6
	3615 B3XF	3615	B3XF	Med-Full	8	Med-Tall	8
	P224 B3XF	P224	B3XF	Med-Full	9	Med-Tall	5
	3799 B3XF	3799	B3XF	Full	7	Tall	7

Medium 3503 B3XF Brand

COTTON

- Enhanced with the Bollgard® 3 XtendFlex® cotton trait
- Adapted best to Coastal Texas and Lower Mississippi Valley
- Medium-tall plant height with smooth leaf characteristics
- Great fiber quality and emergence
- Recommended for irrigated and dryland
- Good storm tolerance
- Bacterial blight susceptible



Medium-Full 3615 B3XF Brand

COTTON

- Enhanced with the Bollgard® 3 XtendFlex® cotton trait
- Adapted to areas south and east of the Caprock Escarpment and Full Season areas of the Southeast
- Medium-tall plant height with smooth leaf characteristics
- Excellent fiber quality and seedling vigor
- Excellent storm tolerance
- Excellent *Verticillium* wilt tolerance and bacterial blight resistance
- Recommended for both dryland and irrigated acres

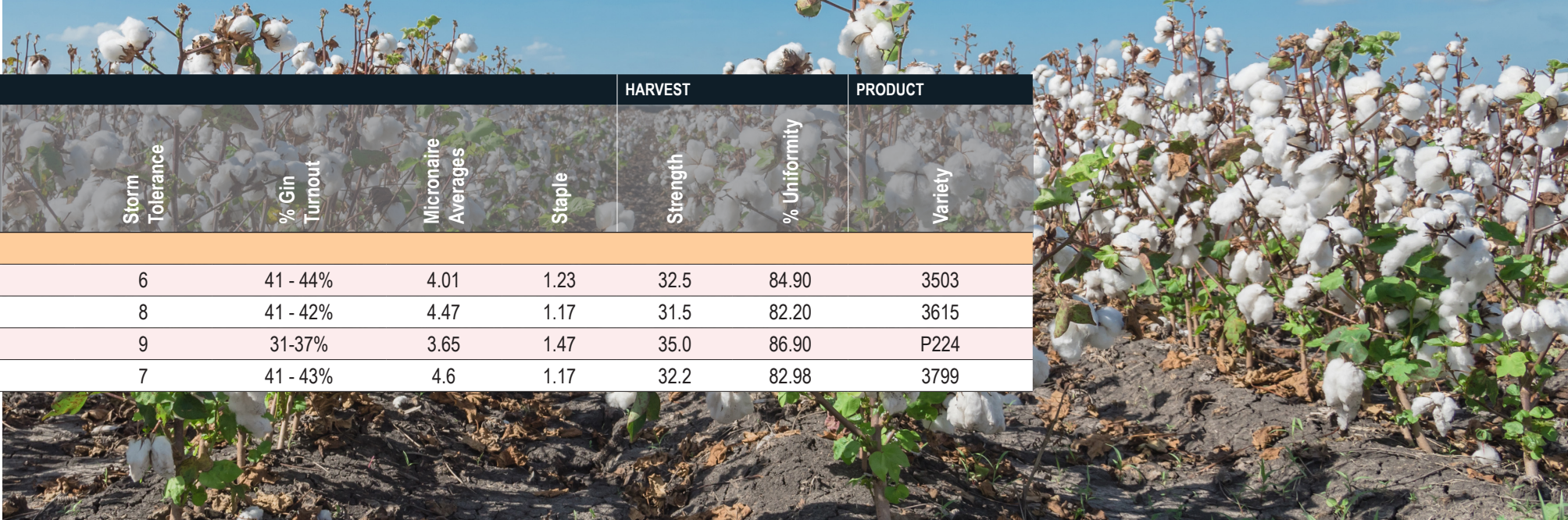


Medium-Full P224 B3XF Brand

COTTON

- Enhanced with the Bollgard® 3 XtendFlex® cotton trait
- Adapted to the Southern High Plains and Rolling Plains of Texas
- Medium-tall plant height with smooth leaf characteristics
- Vastly superior fiber quality with extremely long staple and very high strength
- Recommended for most irrigated acres with higher management potential
- Excellent storm tolerance
- Above average *Verticillium* wilt tolerance; bacterial blight susceptible





					HARVEST		PRODUCT
Storm Tolerance	% Gin Turnout	Micronaire Averages	Staple		Strength	% Uniformity	Variety
6	41 - 44%	4.01	1.23		32.5	84.90	3503
8	41 - 42%	4.47	1.17		31.5	82.20	3615
9	31-37%	3.65	1.47		35.0	86.90	P224
7	41 - 43%	4.6	1.17		32.2	82.98	3799

Full
3799 B3XF Brand

COTTON

- Enhanced with the Bollgard® 3 XtendFlex® cotton trait
- Adapted to the full season growing areas of the Southeast cotton belt
- Tall plant height with smooth leaf characteristics
- Excellent fiber quality and seedling vigor
- Excellent performance on sandy to silt loam soils
- Excellent storm tolerance
- Excellent *Verticillium* wilt tolerance and bacterial blight resistant



Medium
3519 B3XF Brand

COTTON

- Enhanced with the Bollgard® 3 XtendFlex® cotton trait
- Broadly adapted across Texas and the northern cotton belt to North Carolina/Virginia
- Medium-tall plant height with smooth leaf characteristics
- Excellent fiber quality and very good seedling vigor
- Recommended for irrigated and dryland
- Very good storm tolerance
- Excellent Reniform nematode tolerance, bacterial blight resistant, and average *Verticillium* wilt tolerance

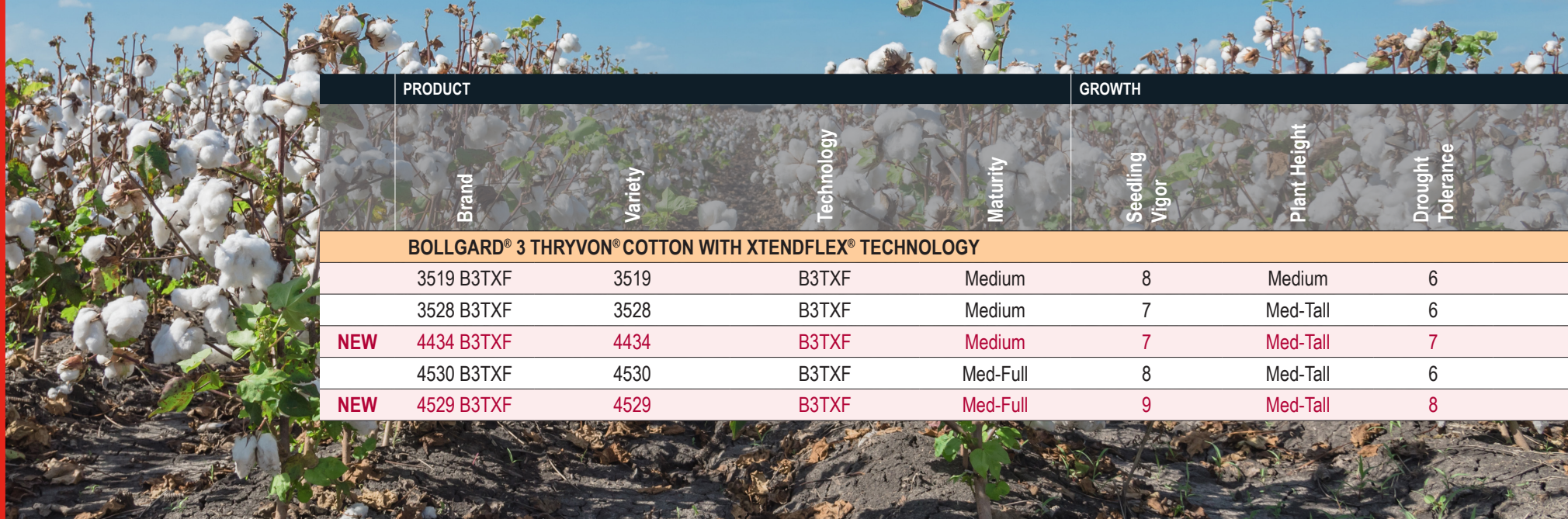


Medium
3528 B3XF Brand

COTTON

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





PRODUCT					GROWTH		
Brand	Variety	Technology	Maturity		Seedling Vigor	Plant Height	Drought Tolerance
BOLLGARD® 3 THRYVON® COTTON WITH XTENDFLEX® TECHNOLOGY							
	3519 B3TXF	3519	B3TXF	Medium	8	Medium	6
	3528 B3TXF	3528	B3TXF	Medium	7	Med-Tall	6
NEW	4434 B3TXF	4434	B3TXF	Medium	7	Med-Tall	7
	4530 B3TXF	4530	B3TXF	Med-Full	8	Med-Tall	6
NEW	4529 B3TXF	4529	B3TXF	Med-Full	9	Med-Tall	8

Medium 4434 B3TXF Brand

COTTON

- Protected by new Bollgard® 3 ThryvOn® cotton 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



Medium-Full 4530 B3TXF Brand

COTTON

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



Medium-Full 4529 B3TXF Brand

COTTON

- Protected by new Bollgard® 3 ThryvOn® cotton with XtendFlex® Technology
- Demonstrated strong performance in the Plains of Texas and mid-full areas of the Southeast
- 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



Storm Tolerance	% Gin Turnout	Micronaire Averages	Staple	HARVEST		PRODUCT	
				Strength	% Uniformity	Variety	
7	40-44%	4.37	1.24	33.6	86.20	3519	
7	39-44%	4.07	1.22	30.6	86.00	3528	
7	39 - 42%	4.44	1.18	30.7	81.99	4434	
6	41 - 44%	3.76	1.23	32.6	84.53	4530	
8	38 - 42%	4.32	1.20	31.7	82.26	4529	

Early-Medium 4402 B3TXF Brand

NEW
COTTON

- Protected by new Bollgard® 3 ThryvOn® with XtendFlex® Technology
- Broadly adaptable across the High Plains and Rolling Plains
- Medium plant height with smooth leaf characteristics
- Excellent fiber quality and seedling vigor
- Excellent storm tolerance
- Average *Verticillium* Wilt tolerance with bacterial blight resistance
- Great for dryland and irrigated

Bollgard® 3
ThryvON
XTENDFLEX

Early-Medium 4469 B3TXF Brand

NEW
COTTON

- Protected by new Bollgard® 3 ThryvOn® cotton with XtendFlex® Technology
- Broadly adaptable across Texas, New Mexico, and Arizona
- Medium plant height with smooth leaf characteristics
- Very good seedling vigor with above average fiber quality
- Above average *Verticillium* wilt tolerance and bacterial blight resistance
- Excellent storm tolerance
- Very good stress tolerance

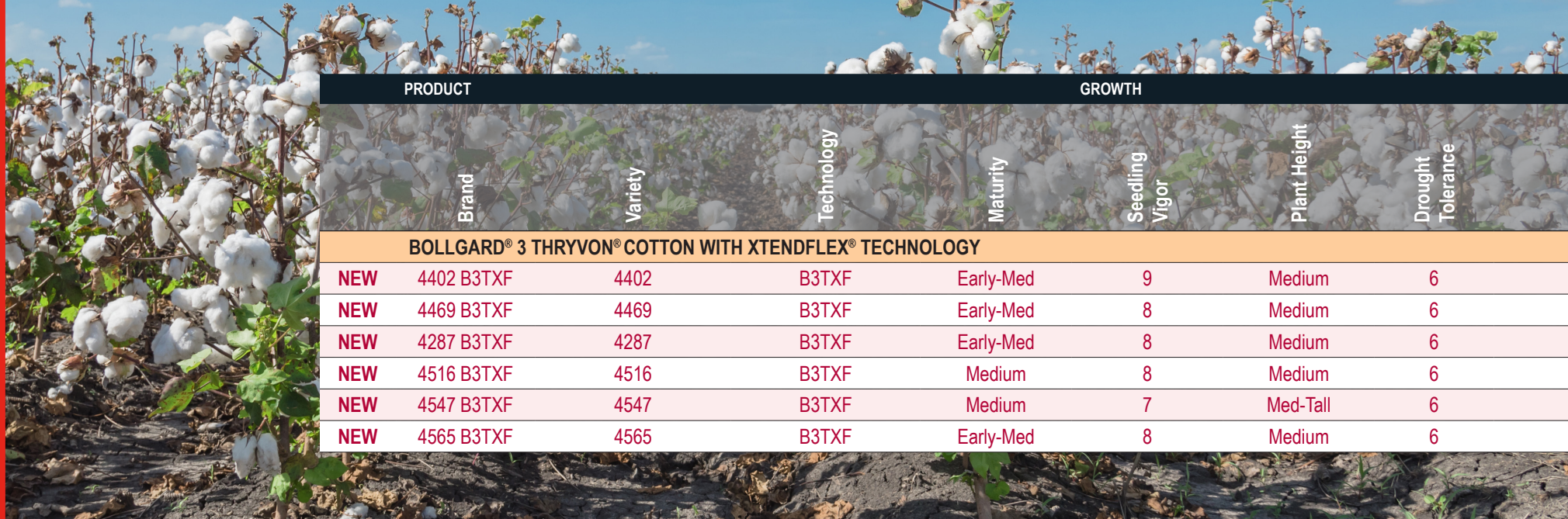
Bollgard® 3
ThryvON
XTENDFLEX

Early-Medium 4287 B3TXF Brand

NEW
COTTON

- Best adapted to West Texas and Oklahoma
- Medium plant height with semi-smooth leaves
- Above average fiber quality and very good seedling vigor
- Bacterial blight resistant and average *Verticillium* tolerance
- Recommended for dryland to heavy irrigation

Bollgard® 3
ThryvON
XTENDFLEX



PRODUCT				GROWTH			
Brand	Variety	Technology	Maturity	Seedling Vigor	Plant Height	Drought Tolerance	
BOLLGARD® 3 THRYVON® COTTON WITH XTENDFLEX® TECHNOLOGY							
NEW	4402 B3TXF	4402	B3TXF	Early-Med	9	Medium	6
NEW	4469 B3TXF	4469	B3TXF	Early-Med	8	Medium	6
NEW	4287 B3TXF	4287	B3TXF	Early-Med	8	Medium	6
NEW	4516 B3TXF	4516	B3TXF	Medium	8	Medium	6
NEW	4547 B3TXF	4547	B3TXF	Medium	7	Med-Tall	6
NEW	4565 B3TXF	4565	B3TXF	Early-Med	8	Medium	6

Medium 4516 B3TXF Brand

NEW
COTTON

- Protected by new Bollgard® 3 ThryvOn® cotton with XtendFlex® Technology
- Best adapted to West Texas
- Medium plant height with semi-smooth leaves
- Excellent fiber quality and very good seedling vigor
- Bacterial blight resistant and average *Verticillium* tolerance
- Recommended for light to heavy irrigation

Bollgard® 3
ThryvON
with XTENDFLEX

Medium 4547 B3TXF Brand

NEW
COTTON

- Protected by new Bollgard® 3 ThryvOn® cotton with XtendFlex® Technology
- Best in coastal Texas and Louisiana and upper southeast
- Medium plant height with semi-smooth leaves
- Excellent seedling vigor with very good fiber quality
- Bacterial blight tolerant
- Tough condition "work horse" variety
- Excellent stress tolerance

Bollgard® 3
ThryvON
with XTENDFLEX

Early-Medium 4565 B3TXF Brand

NEW
COTTON

- Protected by new Bollgard® 3 ThryvOn® cotton with XtendFlex® Technology
- Adapted to upper Gulf Coast of Texas through the Eastern Cotton Belt
- Medium-tall plant height with smooth leaves
- Excellent seedling vigor with average fiber quality
- High yield potential and bacterial blight susceptible
- More intensive PGR management needed

Bollgard® 3
ThryvON
with XTENDFLEX

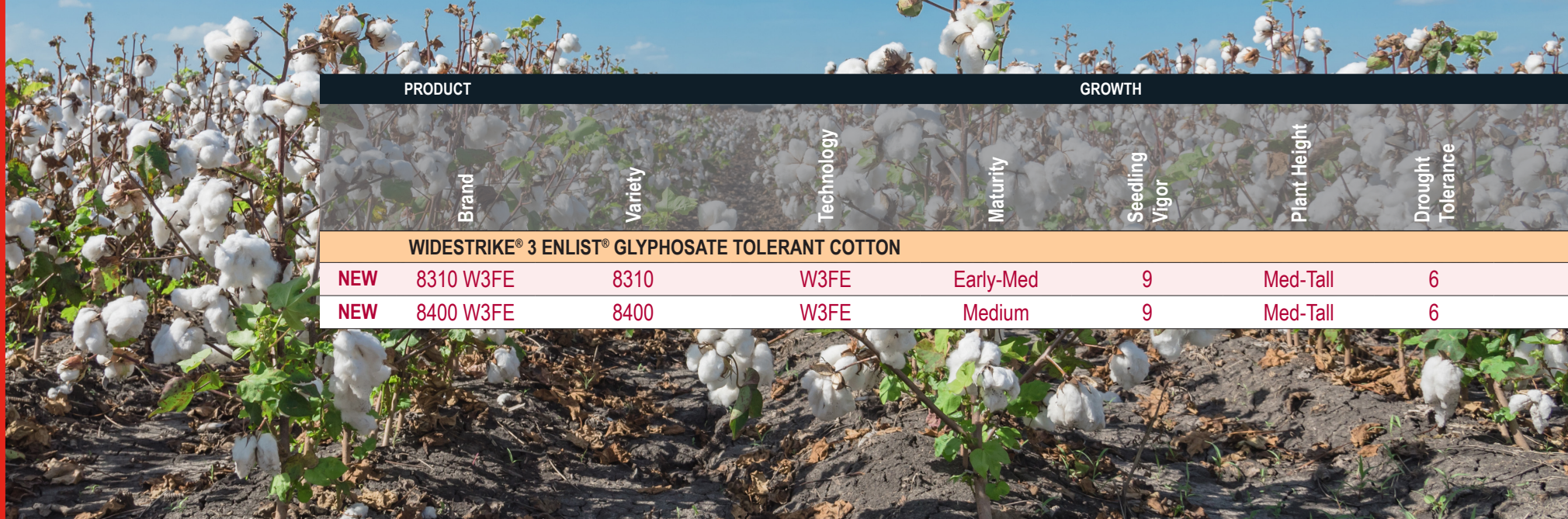


HARVEST					PRODUCT	
Storm Tolerance	% Gin Turnout	Micronaire Averages	Staple	Strength	% Uniformity	Variety
7	34 - 38%	4.25	1.21	30.0	81.30	4402
7	34 - 38%	4.40	1.16	30.5	81.50	4469
7	34 - 38%	4.35	1.16	28.0	81.50	4287
7	34 - 38%	4.37	1.24	33.6	86.20	4516
7	38 - 42%	4.27	1.18	27.7	84.7	4547
6	40 - 43%	4.45	1.17	27.9	83.9	4565

COTTON



BOLLGARD® 3 THRIVON® COTTON WITH XTENDFLEX® TECHNOLOGY



PRODUCT				GROWTH			
Brand	Variety	Technology	Maturity	Seedling Vigor	Plant Height	Drought Tolerance	
WIDESTRIKE® 3 ENLIST® GLYPHOSATE TOLERANT COTTON							
NEW	8310 W3FE	8310	W3FE	Early-Med	9	Med-Tall	6
NEW	8400 W3FE	8400	W3FE	Medium	9	Med-Tall	6

Early-Medium 8310 W3FE Brand

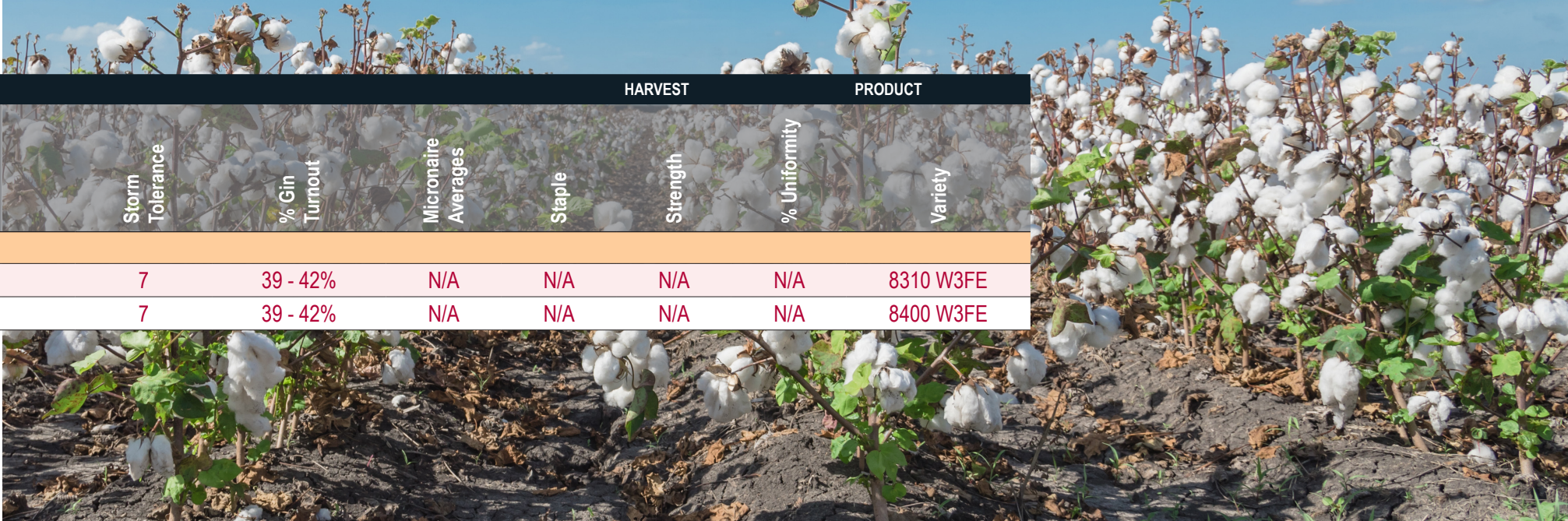
- Dyna-Gro Brand Widestrike 3 Glyphosate Tolerant Enlist cotton
- Broadly adapted across the entire Cotton Belt
- Medium-tall plant with smooth leaves
- Above average fiber quality with excellent seedling vigor
- Bacterial blight resistant
- Root Knot and Reniform Nematode resistant



Medium 8400 W3FE Brand

- Dyna-Gro Brand Widestrike 3 Glyphosate Tolerant Enlist cotton
- Best performance from Lower Southeast through Rolling Plains of Texas and South
- Medium-tall plant height with a smooth leaf
- Above average fiber quality with excellent seedling vigor





HARVEST					PRODUCT	
Storm Tolerance	% Gin Turnout	Micronaire Averages	Staple	Strength	% Uniformity	Variety
7	39 - 42%	N/A	N/A	N/A	N/A	8310 W3FE
7	39 - 42%	N/A	N/A	N/A	N/A	8400 W3FE

COTTON



WIDESTRIKE® 3 ENLIST® GLYPHOSATE TOLERANT COTTON



SORGHUM

At home on any acre.

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

6th & 7th Digit – Random for hybrid designation

Example:

M58GR29 = Grain Sorghum; 58 days, Red grain

F74FS72 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

DYNAGRO
SEED



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:

M58GB34 DT2	Early
M58GR29	Early
M59GB94	Early
M62GC23	Medium-Early
M62GB36	Medium-Early
M66GR32	Medium
M70GR37	Medium-Full
M71GR91	Medium-Full
M72GB71	Medium-Full

SORGHUM TABLE OF CONTENTS

Pearl Millet.89

Hybrid Sorghum Sudangrass 90-91

Hybrid Forage Sorghum 92-93

Grain Sorghum 94-99



Summer Annual

PearlMil *Hybrid Pearl Millet*



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

Hybrid Sorghum Sudangrass - Multi-Cut For Haying and Grazing

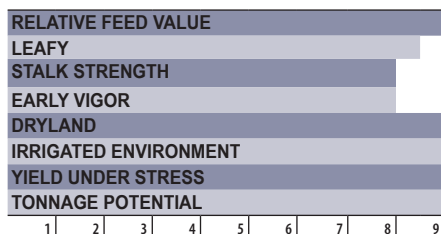
SORGHUM

HYBRID SORGHUM SUDANGRASS

Photo Period Sensitive

DANNY BOY II BMR *Sorghum Sudangrass*

SORGHUM



PREMIUM

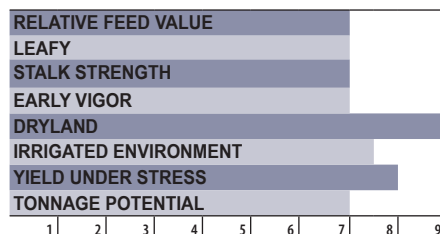
- Tall broad-leaved type BMR with digestibility comparable to corn silage
- Can be used for silage, hay, or grazing*
- Daylight/photo period sensitive for extended harvest window
- Premium BMR sorghum sudangrass with impressive leaf vigor and high digestibility
- Seeding rates: dryland 12-30 lbs./acre: 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

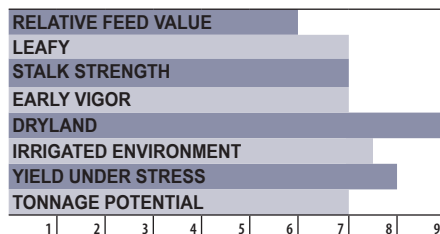


- Improved conventional Dynagraze sorghum x sudangrass hybrid
- Consistent high yields with excellent regrowth and recovery
- Juicy, sweet fine stems for improved feed quality
- Should be harvested prior to boot stage for maximum quality
- Cut or graze approximately 3-4 inches above soil
- Very good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

Medium-Early

FIRST-GRAZE *Sorghum Sudangrass*

SORGHUM

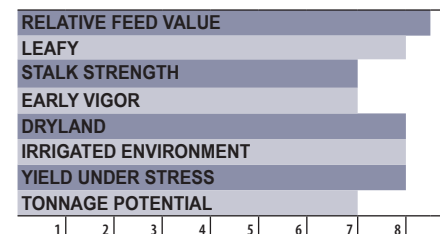


- Ideal for tough dryland or limited irrigation production
- Versatile crop usage for hay, silage, and grazing
- Excellent early season vigor and fast regrowth after cutting
- Thin stemmed plant type
- Very good dry matter yield potential
- Has exceptional drought stress tolerance for tough acres
- **Do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

Medium-Early

DYNAGRAZE III BMR *Sorghum Sudangrass*

NEW SORGHUM

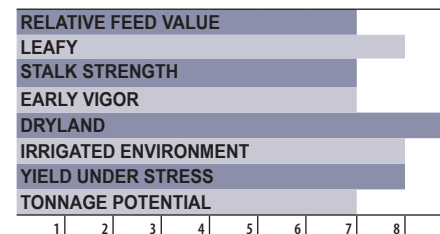


- Improved version of Dynagraze II BMR sorghum x sudangrass hybrid
- Good early season vigor and excellent regrowth
- Juicy, sweet fine stems for improved BMR feed quality
Should be harvested prior to boot stage for maximum quality
- Cut or graze approximately 3-4 inches above soil
Very good foliar disease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

Medium-Early

SUPER SWEET 10 *Sorghum Sudangrass*

SORGHUM

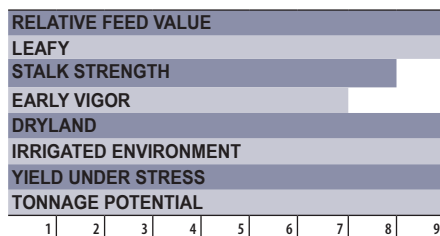


- Shorter, leafier and finer stemmed than Dynagraze for higher feed values
- Extremely sweet feed which cattle love
- Superfine stems and a prolific tillering habit
- Excellent drought and heat stress tolerance for dryland or irrigated
- Best for haylage, intensive grazing, can be used for chopping
- 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 BMR *Sorghum Sudangrass*

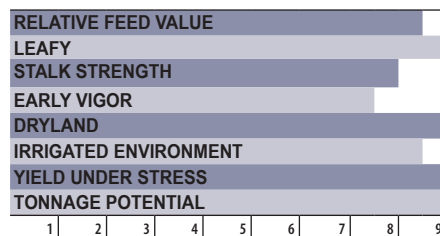
SORGHUM

**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**

Medium-Full FULLGRAZE II *Sorghum Sudangrass*

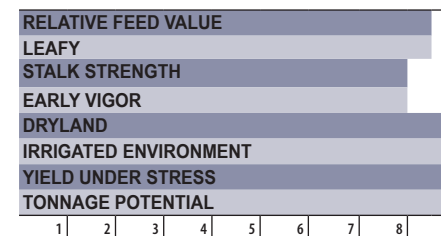
SORGHUM



- 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**

Photo Period Sensitive EXTEND-GRAZE *Sorghum Sudangrass*

SORGHUM



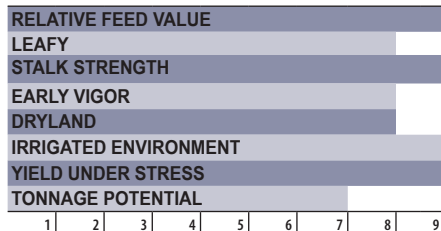
- Leafy with thin stems and extremely sweet
- Daylight/photoperiod sensitive for extended harvest window and yields
- Sorghum sudangrass with impressive leaf vigor and high digestibility
- Excellent drought and heat stress tolerance
- Versatile crop usage for silage, hay, or grazing
- **Do not feed to horses**
- **Do not use for grazing in extreme southeast U.S.**

***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.*



Early F71FS72 BMR Forage Sorghum

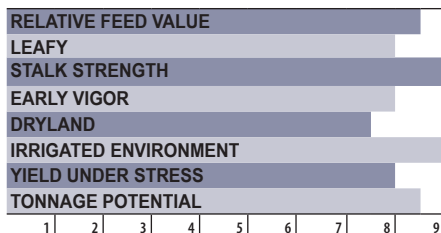
Days to Soft Dough: 80-92



- 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.

Medium-Early Super Sile 30 Forage Sorghum

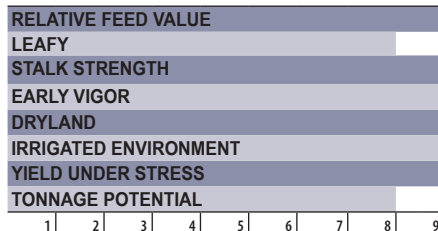
Days to Soft Dough: 86-105



- 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-Early F71FS35 BMR Forage Sorghum

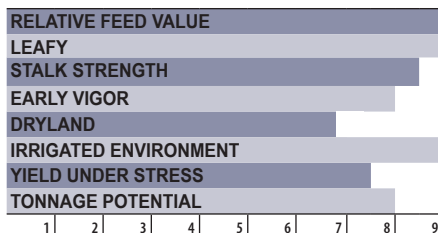
Days to Soft Dough: 85-95



- BMR forage sorghum for stress acres, average 5-6 foot tall
- Excellent standability and stress tolerance
- Higher total digestible nutrients and palatability
- Consistent maturity under variable environmental conditions
- This hybrids performs well under dryland conditions with excellent heat and stress tolerance
- BMR-6 provides excellent feed values and offers high quality silage
- Averages 13-15,000 seeds/lb , produces bronze grain

Medium F74FS72 BMR Forage Sorghum

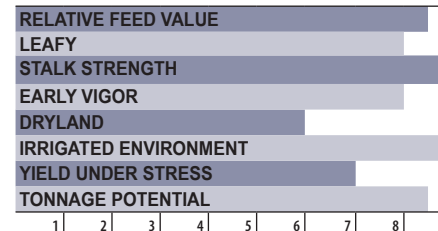
Days to Soft Dough: 88-100



- 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

Medium-Early F72FS05 Forage Sorghum

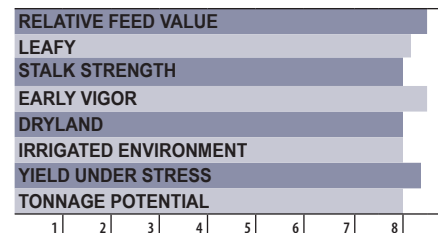
Days to Soft Dough: 82-95



- 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 F75FS15 Forage Sorghum

Days to Soft Dough: 85-100

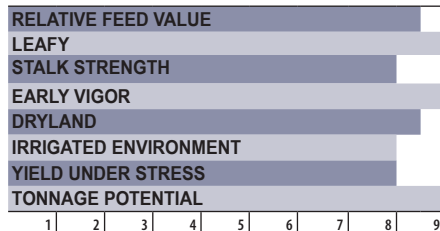


- Best positioned and used for hay, grazing, or silage
- Sweet stalked, mid-maturing hybrid, high yield performance
- 8' to 10' in height and has very good standability
- Tolerates drought stress very well
- Should be cut in the soft dough stage for highest tonnage and best quality
- Good choice for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

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-Full Sweet Ton MS Days to Soft Dough: 92-110 *Forage Sorghum*

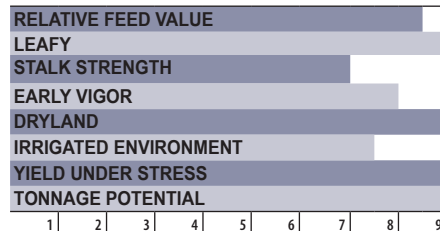
SORGHUM



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

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
- 17,000-19,000 seeds/lb., keep population on lower side for field type
- Qualifies as dual purpose, insurance approved



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

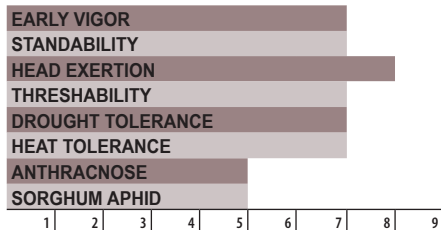
DYNAGROSEED.COM

	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
	M57GB35 DT	Early	94	57	Normal	Bronze	Semi-open	S	7	7	8
NEW	M58GB34 DT2	Early	94	58	Normal	Bronze	Semi-open	S	7	7	8
NEW	M58GB29	Early	94	58	Normal	Red	Semi-open	S	8	8	7
	M59GB57	Early	95	59	Normal	Bronze	Semi-open	M/S	6	8	7
	M59GB94	Med-Early	96	59	Normal	Bronze	Semi-open	M	8	7	7
	M60GB20 DT	Med-Early	97	60	Normal	Bronze	Semi-open	M	8	8	7

Early M57GB35DT

Days to Mid-bloom: 57
Bronze Grain Sorghum

SORGHUM

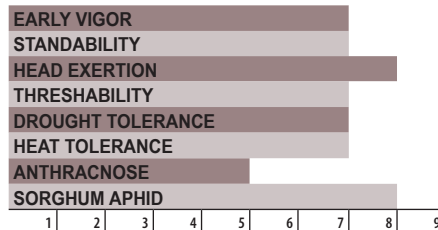


- Early season, bronze grain, with high yield potential for maturity
- Well suited for dryland acres and where high soil pH could be a problem
- Double crop candidate in areas with longer growing seasons
- Excellent early season vigor
- DT trait tolerates FirstAct™ herbicide for over the top grassy weed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

Early M58GB34 DT2

Days to Mid-bloom: 58
Bronze Grain Sorghum

NEW SORGHUM

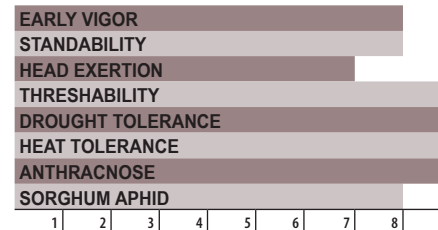


- Early season, bronze grain, with high yield potential for maturity
- Well suited for dryland acres
- Double crop candidate in areas with longer growing seasons
- Excellent early season vigor
- High sorghum aphid tolerance
- DT2 trait tolerates FirstAct™ herbicide for over the top grassy weed control with earlier application timing (4 leaf stage or 4 inch plant height)

Early M58GB29

Days to Mid-bloom: 58
Red Grain Sorghum

NEW SORGHUM



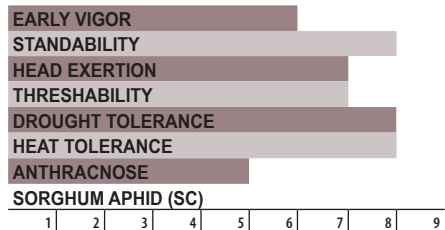
- Early red colored grain sorghum with excellent short season yield
- Excellent standability suited for high stressed environments
- Semi-open head with excellent head exertion and drought tolerance
- Good sorghum aphid tolerance and very good standability
- Adapted very well to northwest Kansas, eastern Colorado, High Plains Texas, and northern areas

Threshability	Drought Tolerance	Heat Tolerance	DISEASE/INSECT TOLERANCE						PRODUCT
			Anthraco	Head Smut	Downy Mildew 3 & 6	Sorghum Aphid	Green Bug Resistance	Approximate Seeds/lb. (thousands)	
7	7	7	5	5	4	5	N/A	13-14	M57GB35 DT
7	7	7	5	5	4	8	N/A	13-14	M58GB34 DT2
9	9	9	9	6	5	8	C, E	14-15	M58GB29
7	8	8	5	6	3	Sc	Sc	14-16	M59GB57
8	8	8	7	7	3	8	C, E	12-13	M59GB94
7	7	8	7	4	4	5	N/A	12-13	M60GB20 DT

* **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.

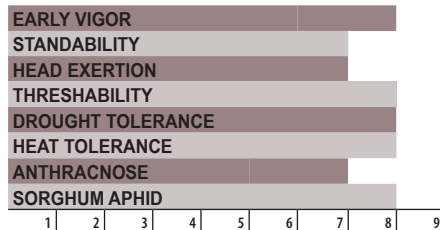
SORGHUM

Early M59GB57 Days to Mid-bloom: 59 Bronze Grain Sorghum



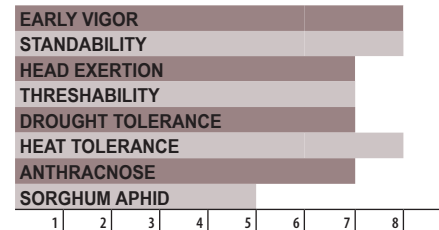
- Attractive early hybrid that produces bronze grain in a semi-open head
- Highest top end yielding 59 day to mid-bloom hybrid, adapted to high altitude areas
- Well-adapted to both dryland and irrigated production practices
- Excellent yield for maturity with high test weight grain
- Very strong pre-flower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

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



GRAIN SORGHUM

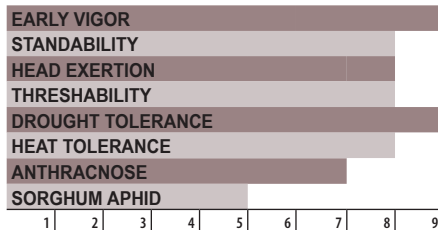
PRODUCT	PLANT ATTRIBUTES										
	Dyna-Gro Brand	Relative Maturity	Days RM	Days to Mid-bloom	Late Planting/ Cool Weather Response	Grain Color	Head Type	Plant Height	Early Vigor	Standability	Head Exertion
M60GB88		Med-Early	96	60	Matures	Bronze	Semi-open	M	9	8	8
M62GC23		Med-Early	101	62	N/A	Cream	Semi-compact	M	7	6	8
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
M64GB05 DT		Medium	105	64	Matures	Bronze	Semi-open	M	8	8	7



Medium-Early M60GB88

Days to Mid-bloom: 60

Bronze Grain Sorghum

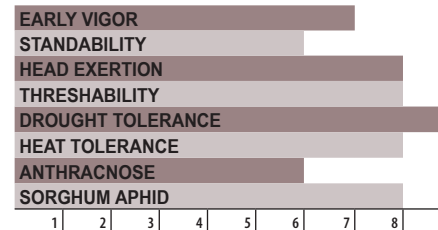


- Good drought tolerance and standability, excellent for dryland production
- Strong emergence in cool soils
- Good resistance to downy mildew
- Good choice for areas where inputs are limited
- Adapted to most soil types and tillage systems
- Limited tolerance to sugarcane aphids

Medium-Early M62GC23

Days to Mid-bloom: 62

Cream Grain 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

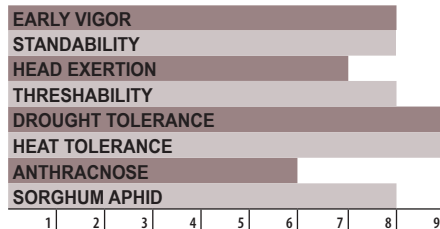
Threshability	Drought Tolerance	Heat Tolerance	DISEASE/INSECT TOLERANCE						PRODUCT
			Anthraxnose	Head Smut	Downy Mildew 3 & 6	Sorghum Aphid	Green Bug Resistance	Approximate Seeds/lb. (thousands)	
8	9	8	7	7	5	5	Sc	14-15	M60GB88
8	9	8	6	9	5	8	C, E	14-15	M62GC23
8	9	9	6	9	9	8	C, E	14-16	M62GB36
8	9	9	6	7	5	5	C, E	18-19	M3838
7	7	7	7	4	5	5	N/A	13-14	M64GB05 DT

* **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 Days to Mid-bloom: 62

M62GB36 Bronze Grain Sorghum

SORGHUM

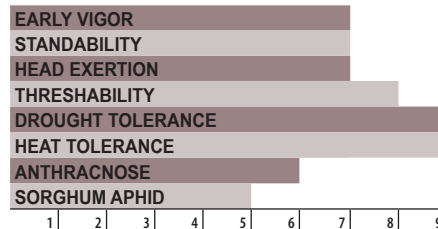


- Medium-early season bronze with excellent sorghum aphid tolerance
- Medium plant height (average 47-52") with semi-open heads
- Well suited for both high stress and high yield environments
- Excellent stalk strength and highly tolerant to head smut
- Excellent heat and moisture stress tolerance, works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

Medium-Early Days to Mid-bloom: 63

M3838 Cream Grain Sorghum

SORGHUM

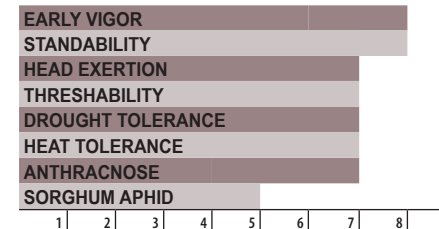


- Long time proven medium-early stress hybrid with cream colored grain
- Best adapted to dryland or areas with limited irrigation
- Semi-open head type that dries fast and allows for earlier harvesting
- Very good on high pH soils where iron chlorosis is a problem
- Sets the standard for dryland production,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

Medium Days to Mid-bloom: 64

M64GB05DT Bronze Grain Sorghum

SORGHUM



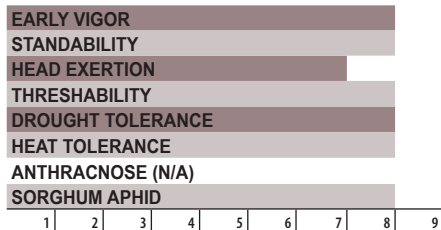
- Medium maturing hybrid with bronze grain
- High yielding for maturity
- Excellent cool soil germination and emergence
- Good staygreen for great standability
- DT trait tolerates FirstAct™ herbicide for over the top grassy weed control



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
M66GR32		Medium	106	66	Normal	Red	Semi-comp	M/T	8	8	7
M70GR37		Medium-Full	112	70	Normal	Red	Semi-comp	M/T	9	8	9
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

Medium Days to Mid-bloom: 66

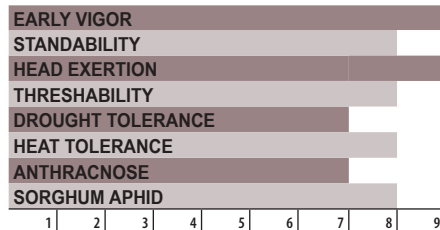
M66GR32 Red Grain Sorghum



- 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-Full Days to Mid-bloom: 70

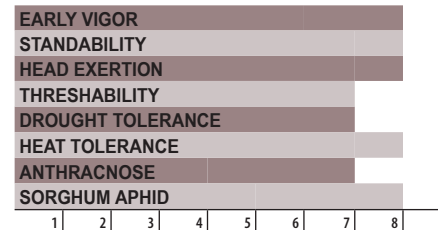
M70GR37 Red Grain Sorghum



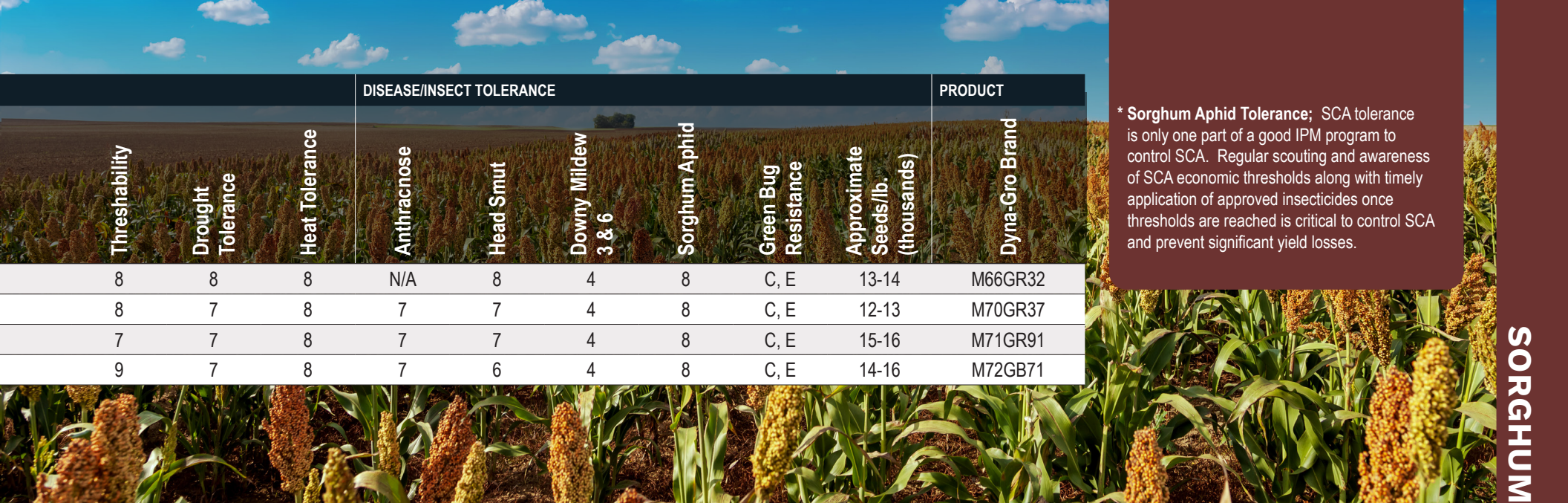
- Medium-full, red colored hybrid with excellent sorghum aphid tolerance
- Strong top end yield performance, favorable to irrigation
- Adapted across medium to high yield environments in Texas and High Plains
- Excellent *Fusarium* head blight tolerance

Medium-Full Days to Mid-bloom: 71

M71GR91 Red Grain 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

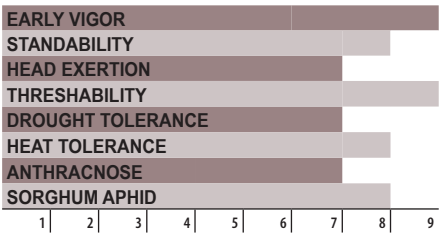


SORGHUM

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)	
8	8	8	N/A	8	4	8	C, E	13-14	M66GR32
8	7	8	7	7	4	8	C, E	12-13	M70GR37
7	7	8	7	7	4	8	C, E	15-16	M71GR91
9	7	8	7	6	4	8	C, E	14-16	M72GB71

* **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 M72GB71 Days to Mid-bloom: 72
Bronze Grain 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



GRAIN SORGHUM



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

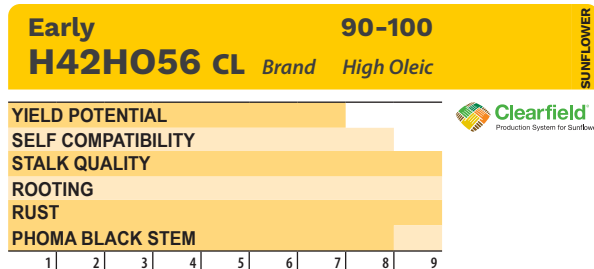
5 = Average

1 = Poor

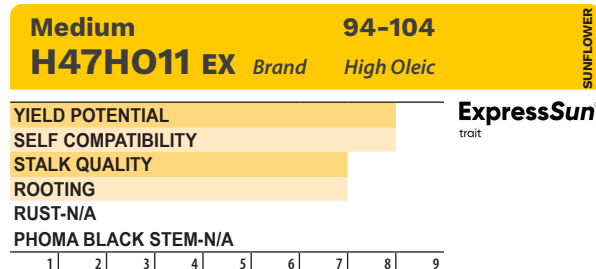
N/A = Information Not Available

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

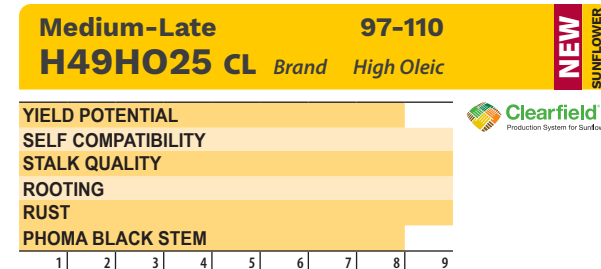
	PRODUCT					GROWTH									DISEASE TOLERANCE		
	Hybrid	Maturity Group	Maturity Range	Oil	Trait	Self Compatibility	Days to Flower	DRM	Plant Height	Yield Potential	Avg Oil%	Seed Color	Stalk Quality	Rooting	Downy Mildew	Rust	Phoma Black Stem
	H42HO56 CL	Early	90-100	High Oleic	Clearfield®	8	53	95	50	7	42	Gray	9	9	7	9	9
	H47HO11 EX	Medium	94-104	High Oleic	ExpressSun®	8	66	102	67	8	43	Black	7	7	PL8	N/A	N/A
NEW	H49HO25 CL	Med-Late	97-110	High Oleic	Clearfield®	9	67	105	75	8	45	Black	9	9	PL6	9	8



- Oleic acid levels can vary due to environment and proximity to non-high oleic hybrids
- Early season hybrid suited to North Dakota, north of I-94
Short stature with very good disease tolerance
- Early maturing hybrid to beat the heat and birds
Good oil potential and oleic values
- Oil content can vary with environmental conditions



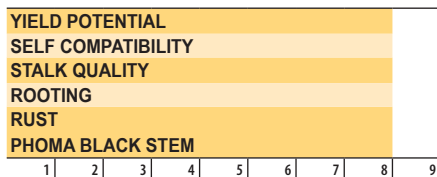
- High oleic oilseed hybrid
- Good disease tolerance
- Well suited to both dryland or irrigated situations
- Good yield potential with good oleic values and oil content
- Both oleic values and oil content can be influenced by environmental conditions
- Well adapted to central and western growing regions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



- Improved version of H49HO19 CL
- 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 south SD, CO, KS and TX
- Average plant height
- Excellent seed set and retention
- Great standability with very good stalk strength
- Oil content can vary with environmental conditions

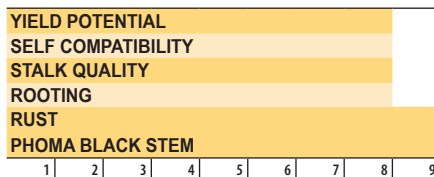
	PRODUCT						GROWTH	
	Hybrid	Maturity Group	Maturity Range	Oil	Trait	Self Compatibility	Days to Flower	DRM
	H49HO90 EX	Med-Late	98-110	High Oleic	ExpressSun®	8	68	106
NEW	H50HO20 CP	Med-Late	98-112	High Oleic	Clearfield Plus®	8	69	108
WILDLIFE								
	GAME PLAN CL	Medium	94-102	Bird	Clearfield®	8	65	98

Medium-Late 98-110 H49HO90 EX Brand High Oleic

NEW
SUNFLOWER

ExpressSun®
trait

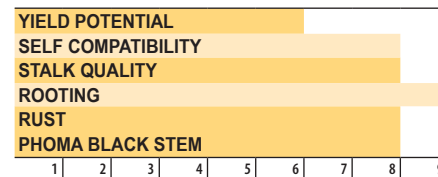
- Advanced Downey Mildew Resistance
- Well suited for both dryland and irrigation
- Industry leading disease tolerance
- Outstanding stalk and root strength
- Industry leading yield and oil content
- Wide area of adaptation, does well from the northern growing regions of North Dakota all the way to southern Texas
- ExpressSun® herbicide trait

Medium-Late 98-112 H50HO20 CP Brand High Oleic

NEW
SUNFLOWER

Clearfield Plus®
Production System for Sunflower

- Clearfield Plus® herbicide trait
- Full season hybrid suited to areas from Texas to northern South Dakota and up to I-94
- Short stature with 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

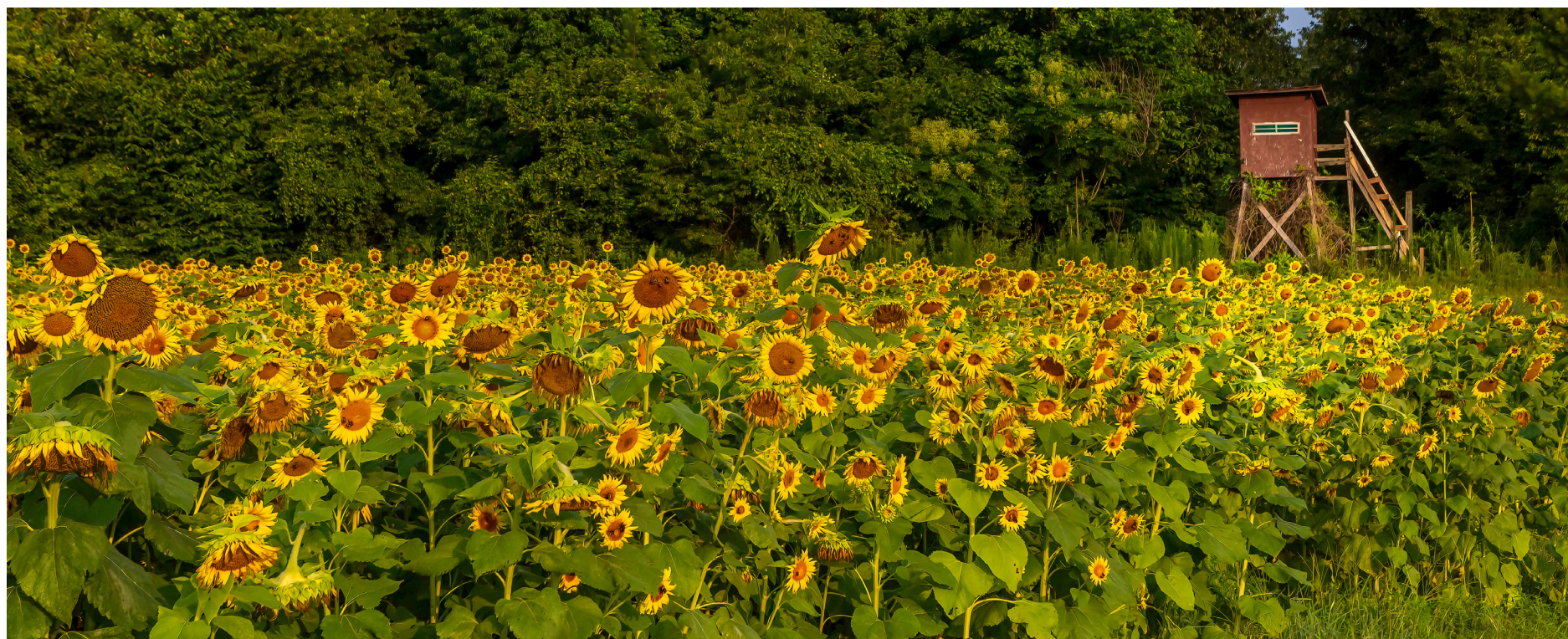
Medium 94-102 Game Plan CL Brand Bird

NEW
SUNFLOWER

Clearfield®
Production System for Sunflower

- 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

Plant Height	Yield Potential	Avg Oil%	Seed Color	Stalk Quality	Rooting	DISEASE TOLERANCE			PRODUCT
						Downy Mildew	Rust	Phoma Black Stem	Hybrid
65	8	45	Black	8	8	PL6/PL17	8	8	H49HO90 EX
74	8	43	Black	8	8	9	9	9	H50HO20 CP
62	6	N/A	Black	8	9	n/a	8	8	GAME PLAN CL

SUNFLOWER



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

103



CANOLA

At home on any acre.



DYNAGRO[®]
SEED

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 ©2026 Nutrien Ag Solutions[®]

NTACT™

Protect yield. Straight cut with confidence.

Save time and reduce labor

Skip the swather and streamline your harvest. Straight cutting reduces passes, labor, and fuel, helping improve overall efficiency.

Minimize seed loss

Stronger pod integrity helps reduce shatter risk, especially under wind or delayed harvest conditions.

Enhance yield stability

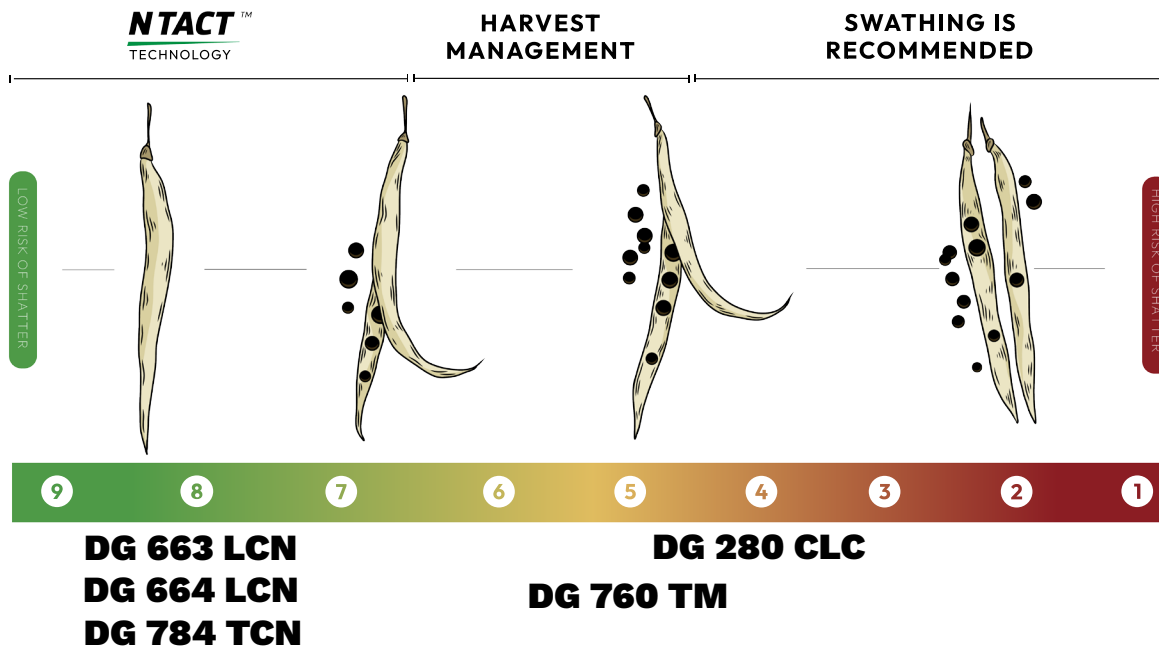
By protecting pods through maturity, NTACT™ helps retain more seed where it belongs, in the tank.

Improve farm profitability

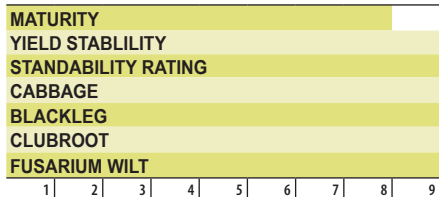
Fewer passes, less loss, and a simpler harvest all contribute to stronger returns at the end of the season.

BEHIND THE LOGO

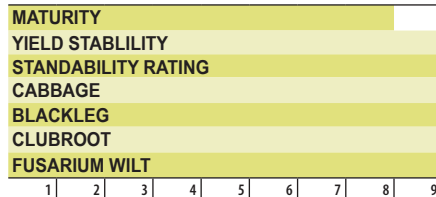
NTACT™ TECHNOLOGY'S DEPENDABLE POD INTEGRITY



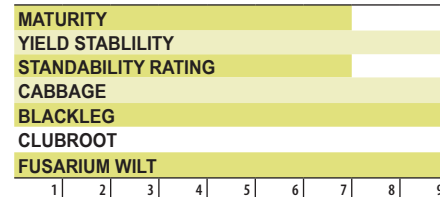
	PRODUCT				GROWTH			
	Brand	Variety	Technology	Herbicide System	Average Days to Flower	Average Days to Maturity	Height inches	Yield Description
NEW	Dyna-Gro	DG 663 LCN	LibertyLink®	Glufosinate	49	89.5	44.5	Excellent
NEW	Dyna-Gro	DG 664 LCN	LibertyLink®	Glufosinate	50	91.5	43.3	Excellent
	Dyna-Gro	DG 760 TM	TruFlex®	Glyphosate	47.9	88.2	42.9	Very Good
NEW	Dyna-Gro	DG 784 TCN	TruFlex®	Glyphosate	46.9	88.6	44.1	Excellent
	Dyna-Gro	DG 280 CLC	Clearfield®	IMI	51.2	89.8	46.5	Excellent

DG 663 LCN Brand**NEW**
CANOLA**LIBERTY**
LINK

- NTACT™ Technology helps protect yield and deliver straight cut confidence at harvest
- Strong blackleg package paired with multigenic clubroot resistance for dependable protection across acres
- Early to mid-season maturity with strong standability and broad fit across northern growing regions
- Built to perform across a wide range of soil types and environments

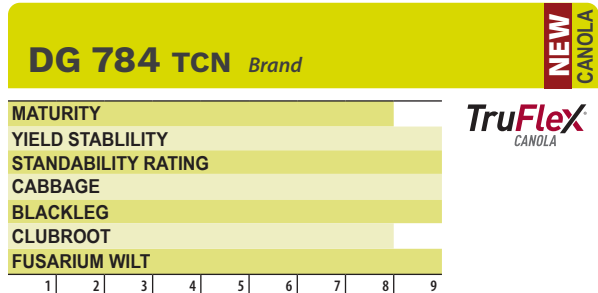
DG 664 LCN Brand**NEW**
CANOLA**LIBERTY**
LINK

- Built for full-season acres with strong consistency across northern growing regions
- NTACT™ Technology helps hold yield and provide greater harvest flexibility at straight cut
- Strong blackleg protection paired with multigenic clubroot resistance for confidence in tougher environments
- Excellent standability and broad adaptation across long season acres

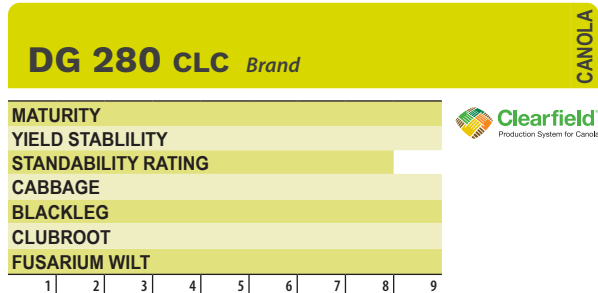
DG 760 TM Brand**NEW**
CANOLA**TruFlex**
CANOLA

- DG 760 TM is our earliest maturing TruFlex® canola hybrid - offering strong yield, early flowering, and fast dry-down
- Ideal for short seasons and harvest flexibility
- It delivers excellent standability, blackleg resistance, and a wide spray window for effective weed control

DISEASE						PRODUCT
Blackleg	Clubroot	Fusarium Wilt	Standability	Harvest Management	NTACT™ Technology	Variety
Resistant	Multigenic clubroot resistance	Resistant	Excellent		Yes	DG 663 LCN
Resistant	Multigenic clubroot resistance	Resistant	Excellent		Yes	DG 664 LCN
Resistant		Resistant	Very good	Yes		DG 760 TM
Resistant	Resistant	Resistant	Excellent		Yes	DG 784 TCN
Resistant	Multigenic clubroot resistance	Resistant	Excellent			DG 280 CLC



- DG 784 TCN is built to deliver high, consistent yield across your acres.
- With strong blackleg resistance and a strong disease package, it's designed to protect yield through the season.
- NTACT™ Technology helps protect that yield at harvest by improving pod integrity, giving you the confidence to straight cut and capture more in the tank.
- Push yield. Protect it at harvest.



- DG 280 CLC is a high-performing Clearfield® hybrid delivering consistent yield and strong agronomics
- With multigenic clubroot resistance and solid standability, it performs well in challenging conditions
- An excellent fit for growers targeting Clearfield systems with added contract opportunities





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

WINTER HARDINESS:

- 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

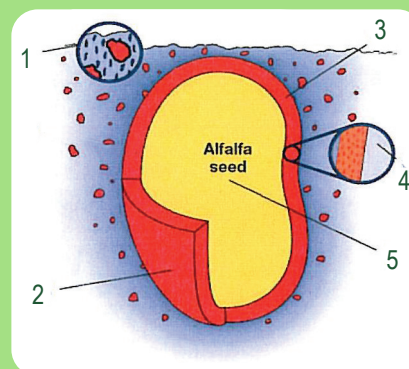
FEED VALUE:

RFV = Relative Feed Value



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.

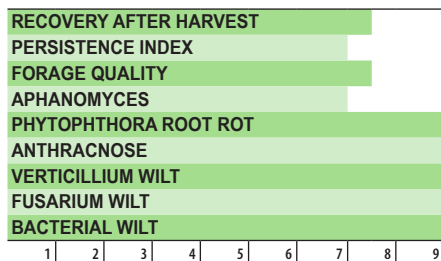
1. Miscellaneous or "mystery" strains of *Rhizobium* found in the soil create unpredictable root nodulation.
2. Fungicide provides an excellent delivery system to fight off the damaging effects of seedling diseases such as *Phytophthora* root rot and *Pythium* during the seedlings first few weeks of 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 Cutting 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 420LH Brand	4.0	2.1	8.4	8.0	8.0	8.4	3-5	81%	30	HR	HR
	TMA 420 Brand	4.0	2.0	7.0	7.5	7.0	7.8	3-5	N/A	29	HR	R
	DG 417RR	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

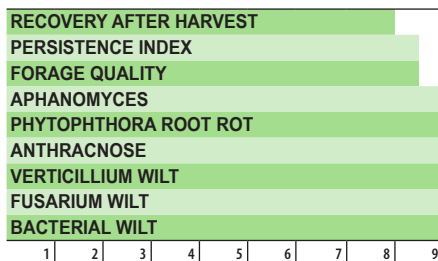
ALFALFA



- 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

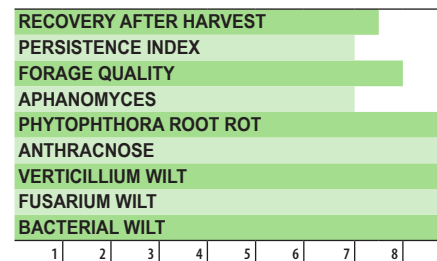
ALFALFA



- 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

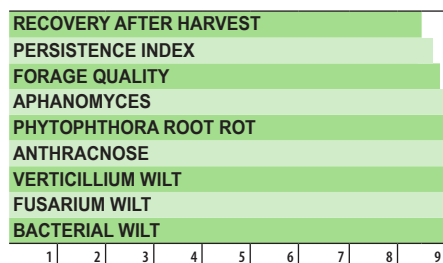


- Will generate plenty of residual nitrogen for corn, potatoes or other crops to follow
- Healthy, fast growing alfalfa
- Combines high tonnage and strong winter hardiness
- Represents a breakthrough in production of high quality forage throughout the dormancy 4 maturity zone

					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	R	HR	N/A	N/A	TMA 420LH Brand
-	HR	HR	HR	HR	R	N/A	N/A	N/A	N/A	TMA 420 Brand
R	HR	HR	HR	HR	N/A	N/A	N/A	R	N/A	DG 417RR
-	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

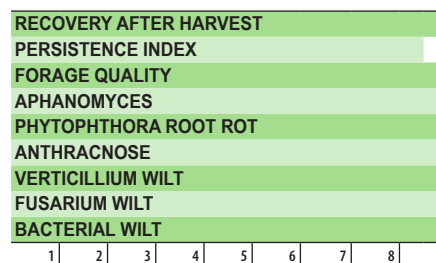
ALFALFA



- 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

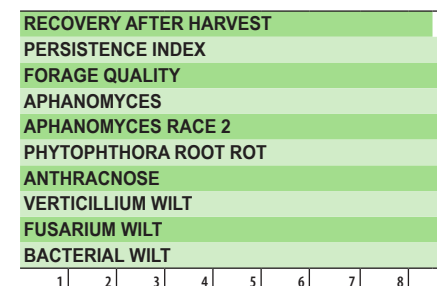
ALFALFA



- 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

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

*Initial ratings based on limited data

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.

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	DG563PVL	87	122	Long Grain	Provisia	MR
Dyna-Gro	DG273L	81	115	Long Grain	Conv	MR

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



	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%	9.2mm	6.5mm	MS	MS	MS	S	MS	N/A	MR	AR, MS, MO, TX & LA	
	EX	17,500	40-60	3/15 - 5/15	Awnless, 9-10"	135-165	38"	58/69	6-8%	26%	9.2mm	6.5mm	MR*	MR	MS	S	MR	N/A	MR	AR, MS, MO, TX & LA	
	EX	18,500	40-60	3/15 - 5/15	Awnless, 9-10"	135-165	36"	62/69	6-8%	22%	9.2mm	6.5mm	MS*	MS*	MS*	S	MS*	N/A	MR	AR, MS, MO, TX & LA	
	EX	19,500	40-60	3/15 - 5/15	Awnless, 9-10"	135-165	36"	60/69	2-3%	28%	9.5mm	6.9mm	MS*	MS*	MS*	S	MR*	N/A	MR	AR, MS, MO, TX & LA	

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

DG563PVL Brand

RICE

- Provisia® Herbicide Tolerance
- High yielding inbred variety
- Excellent milling yields
- Reduced seeding rates
- Uniform grain size
- Intermediate gel temperature and intermediate amylose content



DG273L Brand

RICE

- High-yielding long-grain inbred
- Early maturing, excellent milling
- Reduced seeding rates
- Improved grain metrics
- High amylose, low chalk





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 XC™	A proprietary blend of Loveland Products' proven fertilizer biocatalysts 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® 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
N-FINITY™	A combination of soil amending microbes designed to improve nitrogen use efficiency through direct nitrogen fixation, recruitment of nitrogen fixers and liberation of organic nitrogen in the soil.	
NITRAIN EXPRESS® 3.0	A proprietary product containing a unique mix of NBPT and fertilizer biocatalyst technology that reduces volatility of surface-applied nitrogen by temporarily inhibiting the activity of the urease enzyme.	
NITRAIN BULLET® HL	An EPA-registered 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.	
NUTRISYNC® BRANDS	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.	

 Plant Nutrition (continued)

PRODUCT	FEATURES AND BENEFITS	NUTRIENT ANALYSIS
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
±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™ BRANDS	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
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 MARI-SEED®	Nutritional	Cotton, Wheat, Sorghum, Rice, Soybean	Micronutrients + MBT Technology
AWAKEN SHIELDBOOST™	Nutritional + Biological Insecticide	Corn	BCR1 2.0%*
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® MEFENOXAM	Fungicide	Soybean, Corn, Wheat, Cotton, Sorghum, Sunflower, Canola, Rice	Mefenoxam
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

*The active ingredient (AI) within BCR1 (Methylobacterium extorquens strain NLS0042) comprises 2.0% of the BCR1 component, not 2.0% of the final co-pack mix as applied.

 Adjuvants

PRODUCT	CATEGORY	FEATURES AND BENEFITS
AQUA FORCE	Water Use Efficiency	A uniquely formulated water use efficiency product for center pivot systems, to support water infiltration, distribution and retention.
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.
FRANCHISE® CO-PILOT	Leci-Tech®	Premium NPE-free surfactant specifically formulated for aerial applications to increase droplet deposition while minimizing variability in performance.
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.
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® ELITE	Leci-Tech®	A multi-functional drift reduction, droplet retention, penetration, water conditioner, defoamer - the ideal herbicide partner.

Crop Protection

PRODUCT	CATEGORY	ACTIVE INGREDIENT(S)	ADJUVANT RECOMMENDATION	RESTRICTED USE PESTICIDE
ARTERIO® PRIME	Herbicide	Sulfentrazone + Pyroxasulfone	INFUSE®	No
CLEAN AMINE®	Herbicide	Clear 4# Amine with low odor	LI 700® or LIBERATE®	No
±COLT® AS	Herbicide	Fluroxypyr + Clopyralid	LI 700 or LIBERATE	No
±COLT® + SALVO®	Herbicide	Fluroxypyr + 2,4/D Ester	LI 700 or LIBERATE	No
±COLT® + SWORD®	Herbicide	Fluroxypyr + MCPA	LI 700 or LIBERATE	No
FORTITRI®	Herbicide	Saflufenacil, Dimethenamid, Pyroxasulfone	LI 700 or LIBERATE	No
±HAT TRICK®	Herbicide	Fluroxypyr + Clopyralid + MCPA	LI 700	No
INTENSITY ONE®	Herbicide	Clethodim with Leci-Tech	MSO® CONCENTRATE WITH LECI-TECH®	No
±INTIMIDATOR®	Herbicide	S-Metolachlor + Fomasafer + 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 CO-PILOT	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
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 CO-PILOT	No
±SNIPER® LFR	Insecticide	Bifenthrin with Liquid Fertilizer Ready	LI 700	Yes
SWAGGER®	Insecticide	Bifenthrin + Imidacloprid	VADER®	Yes
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
TURAZI XTREME®	Insecticide	Chlorantraniliprole + Bifenthrin	LIBERATE	Yes
WHITEOUT®	Herbicide	Solventless Ester	LI 700 or LIBERATE	No
WRANGLER®	Insecticide	Imidacloprid	LI 700	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"

Individual results may vary, and performance may vary from location to location and from year to year. This result may not be an indicator of results you may obtain as local growing, soil and weather conditions may vary. Growers should evaluate data from multiple locations and years whenever possible. Dyna-Gro® is a registered trademark of Loveland Products, Inc. Featured logos are service/trademarks of their respective owners.

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

Individual results may vary, and performance may vary from location to location and from year to year. This result may not be an indicator of results you may obtain as local growing, soil and weather conditions may vary. Growers should evaluate data from multiple locations and years whenever possible. Dyna-Gro® is a registered trademark of Loveland Products, Inc. Featured logos are service/trademarks of their respective owners.

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	P205	K20	N	P205	K20
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

[illegible]

Notes

[illegible]

Always read and follow pesticide label directions, insect resistance management requirements (where applicable), and grain marketing and all other stewardship practices.

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.

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 applicable 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.

See the IRM/Grower Guide for additional information. Always read and follow IRM requirements.

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

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

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. 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.

Insect control technology provided by Vip3A is utilized under license from Syngenta Crop Protection AG. Herculex® is a registered trademark of Dow AgroSciences LLC. Agrisure Viptera® is a registered trademark of a Syngenta group company. LibertyLink logo® and LibertyLink® are trademarks of BASF Corporation. Respect the Refuge and Corn Design® is a registered trademark of National Corn Growers Association. Acceleron®, Bollgard II®, Bollgard®, DroughtGard®, RIB Complete®, Roundup Ready 2 Technology and Design®, Roundup Ready 2 Xtend®, Roundup Ready 2 Yield®, Roundup Ready®, SR and Design®, SmartStax®, ThryvOn®, Trecepta®, VT Double PRO®, VT4PRO™, TruFlex® and XtendFlex® are trademarks of Bayer Group.

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. IN THE FOLLOWING STATES, PURCHASE AND USE OF HARVXTRA® ALFALFA WITH ROUNDUP READY® TECHNOLOGY IS SUBJECT TO A SEED AND FEED USE AGREEMENT, REQUIRING THAT PRODUCTS OF THIS TECHNOLOGY CAN ONLY BE USED ON FARM OR OTHERWISE BE USED IN THE UNITED STATES: ARIZONA, CALIFORNIA, COLORADO, IDAHO, MONTANA, NEVADA, NEW MEXICO, OREGON, UTAH, WASHINGTON AND WYOMING (THE "WESTERN STATES"). IN ADDITION, DUE TO THE UNIQUE CROPPING PRACTICES DO NOT PLANT ROUNDUP READY® ALFALFA OR HARVXTRA® ALFALFA WITH ROUNDUP READY® TECHNOLOGY 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. HarvXtra® Alfalfa with Roundup Ready® Technology has pending import approvals. GROWERS IN THE WESTERN STATES MUST DIRECT ANY PRODUCT PRODUCED FROM HARVXTRA® ALFALFA WITH ROUNDUP READY® TECHNOLOGY SEED OR CROPS (INCLUDING HAY AND HAY PRODUCTS) ONLY TO UNITED STATES DOMESTIC USE.

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 registered trademarks of Bayer Group, used under license by Forage Genetics International, LLC. HarvXtra® is a registered trademark of Forage Genetics International, LLC. HarvXtra® Alfalfa with Roundup Ready® Technology is enabled with Technology from The Samuel Roberts Noble Foundation, Inc.



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.

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Seeds containing the PowerCore® Enlist®, PowerCore® Enlist® Refuge Advanced®, Enlist® Corn - REFUGE and Enlist E3® 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, Enlist Corn - REFUGE and Enlist E3 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, our product launch process for responsible launches of new products includes a longstanding process to evaluate export market information, value chain consultations, and regulatory functionality. Growers and end-users must take all steps within their control to follow appropriate stewardship requirements and confirm their buyer's acceptance of the grain or other material being purchased. For more detailed information on the status of a trait or stack, please visit www.biotradestatus.com. Excellence Through Stewardship® is a registered trademark of Global Stewardship Group.

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

POWERCORE® multi-event technology developed by Corteva Agriscience LLC and Monsanto. LibertyLink® and the Water Droplet Design are registered trademarks of BASF. PowerCore® 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. 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.

Glyphosate Tolerant Cotton: Always follow grain marketing, stewardship practices and pesticide label directions. Varieties with the Glyphosate Tolerant trait (including those designated by the letter "R" in the product number) contain genes that confer tolerance to glyphosate herbicides. Glyphosate herbicides will kill crops that are not tolerant to glyphosate.

STS®

herbicide tolerant trait

STS® herbicide tolerant trait is a trademark of Corteva Agriscience. 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.

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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 specied crop protection gene. This imidazolinone tolerance gene will NOT provide carryover protection from SU (sulfonyleurea) 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.

Clearfield® and Clearfield® Plus are registered trademarks of BASF®. Sunflower hybrids with the ExpressSun® trait for resistance to tribenuron-methyl herbicides labeled for use with the ExpressSun trait. This unique sunflower system is designed to maximize weed control in sunflower crops, enhancing ease of production and yield. This system provides improved weed control over conventional hybrids with traditional herbicides.

ExpressSun® is a trademark of Corteva Agriscience and its affiliated companies.

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

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

Insect control technology provided by Vip3A is utilized under license from Syngenta Crop Protection AG. **Important: Always read and follow label and bag tag instructions; only those labeled as tolerant to glufosinate may be sprayed with glufosinate ammonium-based herbicides. Some products may not be registered for sale or use in all states or counties.**

Agrisure®, Agrisure® Total, Agrisure Viptera®, Agrisure Artesian®, Artesian®, Duracade®, DuracadeViptera™, Viptera®, E-Z Refuge® and Trebuset® are trademarks of a Syngenta Group Company. More information about Syngenta corn products are available at <http://www.biotradestatus.com>.

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

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.

Lumiscend Pro may not be registered for sale or use in all states. Contact your state pesticide regulatory agency to determine if a product is registered for sale or use in your state.

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A close-up photograph of a person's hand holding a single, vibrant green leaf. The background is a blurred field of soybean plants. A diagonal graphic element consisting of a green line and a blue line runs across the lower-left portion of the image.

DYNAGRO[®]

SEED

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