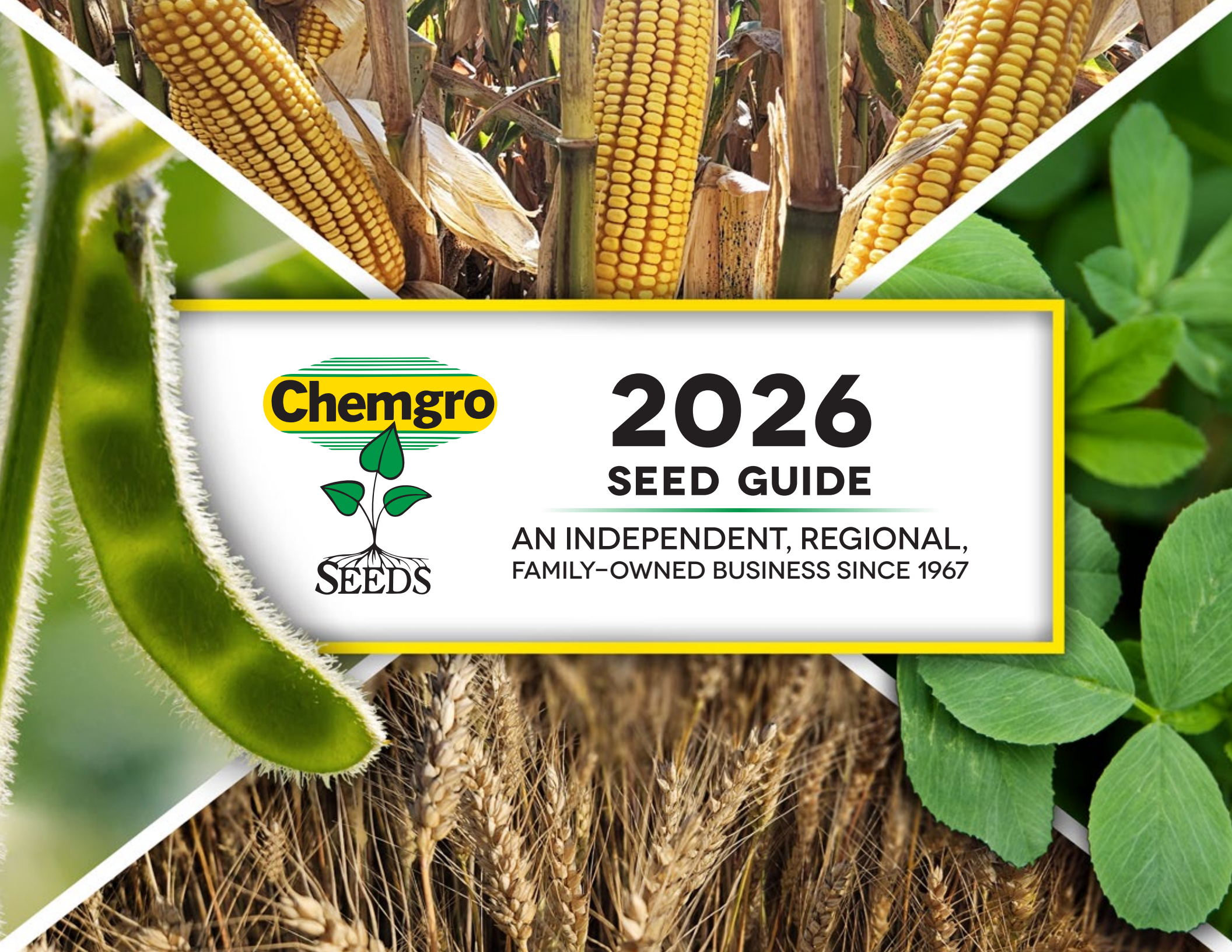

Chemgro SEEDS

2026 SEED GUIDE

AN INDEPENDENT, REGIONAL,
FAMILY-OWNED BUSINESS SINCE 1967

AN INDEPENDENT, REGIONAL, FAMILY-OWNED BUSINESS SINCE 1967

Over 58 years ago, Chemgro's founder, Woody Funk, took a bold step by launching his own fertilizer business in Lancaster County, PA.

Woody's entrepreneurial spirit and commitment to consistency laid the foundation for what Chemgro is today. He exemplified core values of integrity, responsibility, and a deep respect for growers—that continue to guide our business and shape our future.

Chemgro is committed to serving growers with integrity and responsibility, working together to overcome challenges and deliver consistent solutions for successful crop production.

Our priority is meeting grower needs by offering flexible choices tailored to individual acres. Independence allows for access to diverse germplasms and traits, enabling us to customize our seed lineup specifically for the Mid-Atlantic region's soils and environment.

Chemgro stands out in the eastern market as one of the few vertically integrated, independent seed brands. Our team actively works alongside growers in the fields, supporting specific crop needs. Chemgro conducts replicated yield trials across a wide area of the region from New York to Maryland. Chemgro brand soybeans and wheat are locally grown, processed, and treated right here in the Mid-Atlantic region—ensuring high-quality seed that is specifically adapted to local conditions. This hands-on approach creates strong, lasting relationships and delivers consistent value and returns for Chemgro dealers and growers.

Why Trust Chemgro Seeds with Your Acres?

Chemgro Seeds offers a unique, grower-focused approach built on trust, independence, and performance:

- **Family-Owned:** No corporate agendas or foreign ownership—just local commitment.
- **Independent:** Chemgro answers only to growers, not shareholders.
- **Choice:** Freedom to select genetics and traits that fit your specific farm needs.
- **Regional Focus:** Dedicated to the Mid-Atlantic, from New York's North Country to Virginia's Northern Neck.
- **Proven Performance:** Elite, field-tested genetics tailored to local environments.

The Chemgro team is ready to partner with you for a successful 2026 growing season!

Thank you,

Jared Bruckhart

General Manager

CHEMGRO CORN HYBRID REPLICATED RESEARCH

The independence of Chemgro Seeds enables access to a wide and diverse range of corn germplasm and traits. Chemgro rigorously tests hundreds of hybrids over multiple seasons, selecting those with up to three years of proven local performance. With a focus on placing the right genetics on the right acres using proper management, Chemgro invests heavily in research to match hybrids to specific grower needs. The network of 20 trial locations across the mid-Atlantic region ensures hybrids are tested in diverse conditions, helping growers achieve profitable harvests.

Table of Contents

Chemgro SEEDS

2025 Replicated Trial Locations

Lyons, NY
Waterloo, NY
Geneseo, NY
Williamsport, PA
Jersey Shore, PA
Turbotville, PA
Lewisburg, PA
Reedsville, PA
Lewistown, PA
East Waterford, PA
Topton, PA
Manheim, PA (2)
Mount Joy, PA
Washington Boro, PA
Cochranville, PA
Upperco, MD
Northeast, MD
Federalsburg, MD
Smyrna, DE

CORN TECHNOLOGY & ABBREVIATION

Chemgro SEEDS

		HERBICIDE TOLERANCE				ABOVE AND BELOW GROUND INSECT PROTECTION PACKAGE MODES OF ACTION								
		GLUFOSINATE	GLYPHOSATE	2 4-D, CHOLINE	FOP TOLERANT	EUROPEAN CORN BORER	CORN ROOTWORM	BLACK CUTWORM	WESTERN BEAN CUTWORM	SOUTHWESTERN CORN BORER	FALL ARMYWORM	STALK BORER	CORN EARWORM	DINGY CUTWORM
ABOVE GROUND	Agrisure® Above	AA/G2Z	✔	✔		✔✔		✔	✔	✔✔	✔	✔✔	✔	✔
	Viptera®	V/V4Z	✔	✔		✔✔		✔✔	✔	✔✔	✔✔	✔✔	✔✔	✔✔
	POWERCORE® Enlist™ REFUGE ADVANCED®	PCE	✔	✔	✔	✔✔✔		✔		✔✔✔	✔✔✔		✔✔	
	DroughtGard® HYBRIDS VTDoublePRO® RIB COMPLETE	RDD		✔		✔✔				✔✔	✔✔	✔	✔✔	
	VTDoublePRO® RIB COMPLETE®	RDP		✔		✔✔				✔✔	✔✔	✔	✔✔	
	Trecepta® RIB COMPLETE®	RTC		✔		✔✔		✔	✔	✔✔✔	✔✔✔		✔✔✔	
ABOVE & BELOW GROUND	SmartStax® PRO with RNAi TECHNOLOGY	SSP	✔	✔		✔✔✔	✔✔✔	✔			✔✔✔	✔	✔✔	
	SmartStax® RIB COMPLETE®	RSX	✔	✔		✔✔✔	✔✔	✔			✔✔✔	✔	✔✔	
	Duracade®	D/D4Z	✔	✔		✔✔	✔✔	✔	✔	✔✔	✔	✔✔	✔	
	DuracadeViptera™	DV/D5Z	✔	✔		✔✔	✔✔	✔✔	✔	✔✔	✔✔	✔✔	✔✔	✔✔
HERBICIDE	AgrisureGT®	GT/GTA		✔										
	Roundup Ready 2 CORN	RR/RRN/RRS		✔										

✔ = 1 Mode of Action, ✔✔ = 2 Modes of Action, ✔✔✔ = 3 Modes of Action

CORN HYBRID PLACEMENT QUICK GUIDE

Field Conditions	82-95 RM		96-105 RM		106-112 RM		113-117 RM	
Corn after corn	4669D4Z 4909D4Z 5129D5Z 5459DV		5659DV 6029D4Z 6219D5Z 6419D4Z 6539RSX		6858RSX 6929RSX 6959D 7259DV		7309RSX 7539D4Z 7789RSX 7769SSP	
Low population	5120 5121GTA 5125V4Z 5129D5Z 5161RRS 5450	5451GT 5455V 5459DV 5544RDD 5640 5644PCE	5700 5701GT 5705V4Z 5730S 5731RRS 5836RTC 5950	6110 6115RDP 6121RRS 6364PCE 6411GT 6419D4Z	6535RDD 6539RSX 6554PCE 6725RDP 6755V 6831RRS 6854PCE	6930 7035RDP 7045G2Z 7054PCE 7144PCE	7300 7305RDP 7309RSX 7455AA 7360 7364PCE 7444PCE	7539D4Z 7540 7550 7525RDP 7554PCE
High population	4645G2Z 4900 4905V4Z 4909D4Z 5145RDP		5659DV 6029D4Z 6155V 6219D5Z 6368RTC		6430 6434PCE 6858RSX 6968RTC 6929RSX	7060 7064PCE 7140 7145RDP 7259DV	7505RDP 7780 7789RSX 7769SSP	
Tough, light, droughty, lower yielding soils	4645G2Z 5120 5121GTA 5125V4Z 5544RDD		5950 6411GT 6419D4Z 6535RDD 6539RSX		6854PCE 6959D 7035RDP 7045G2Z	7140 7145RDP	7455AA 7501RR 7505RDP 7539D4Z 7525RDP	
High productivity, high yielding soils	4900 4905V4Z 4909D4Z 5060 5064PCE 5120 5121GTA 5125V4Z	5055AA 5145RDP 5450 5451GT 5455V 5459DV	5640 5644PCE 5659DV 5731RRS 6110	6115RDP 6121RRS 6364PCE 6368RTC 6430 6434PCE 6554PCE	6725RDP 6755V 6831RRS 6854PCE 6858RSX 6930 6929RSX	6968RTC 7054PCE 7060 7064PCE 7054PCE 7255RDP 7259DV	7360 7364PCE 7309RSX 7444PCE 7505RDP 7525RDP	7554PCE 7780 7789RSX 7769SSP
High test weight	5145RDP 5450 5451GT 5455V 5459DV	5544RDD	5649D4Z 5700 5701GT 5705V4Z	6219D5Z 6430 6434PCE 6750	6930 7035RDP 7140 7145RDP	7335RDD	7444PCE 7455AA 7505RDP 7525RDP	7780 7789RSX
Conventional/Non-GMO	4900 5060 5120	5450 5500	5640 5700 5950	6110 6430	6750 6850 6930 7060	7140	7300 7360 7540 7550	7780
Fast drying, Easy grain harvest	4900 4905V4Z 4909D4Z	5544RDD	6110 6115RDP	6219D5Z 6368RTC	6725RDP 6929RSX 6968RTC	7035RDP	7505RDP 7525RDP	
Slow drying, Easy silage harvest	5120 5121GTA 5125V4Z 5145RDP 5161RRS	5450 5451GT 5455V 5459DV	5659DV 5640 5644PCE 5701GT 5705V4Z 5731RRS 6029D4Z	6121RRS 6364PCE 6535RDD 6539RSX 6554PCE	6755V 6831RRS 6850 6959D 7045G2Z	7054PCE 7060 7064PCE 7259DV	7300 7305RDP 7309RSX 7360 7364PCE 7444PCE	7539D4Z 7550 7780 7789RSX 7769SSP

CORN SILAGE RATINGS

	Product	Additional Versions	Use	Relative Maturity	Silage Yield	NDFd	% Starch	7 Hour Starch Digestion	Milk per Ton	Milk per Acre
NEW	**4900**	4905V4Z, 4909D4Z	Dual	89	9	7	7	6	7	7
	5120	5121GTA, 5125V4Z, 5129D5Z	Dual	91	8	6	7	6	7	8
NEW	**5060**	5064PCE	Dual	90	8	6	8	-	8	8
	5161RRS		Full Floury Leafy Silage	91	9	8	9	10	9	8
	5450	5451GT, 5451V4Z, 5459DV	Dual	94	8	7	7	-	8	8
	5640	5644PCE	Dual	96	9	6	7	6	7	8
	5659DV		Dual	96	8	6	7	-	7	8
	5700	5701GT, 5705V4Z	Dual	97	9	8	8	5	7	8
	5731RRS		Full Floury Leafy Silage	97	9	8	8	10	8	9
	5836RTC		Dual	98	9	7	7	5	7	9
	6110	6115RDP	Dual	101	8	8	8	6	7	8
	6121RRS		Floury Leafy Silage	101	10	8	9	9	9	9
NEW	**6364PCE**		Dual	103	9	6	6	-	7	9
	6411GT	6419D4Z	Dual	104	8	8	9	9	8	8
	6430		Dual	104	9	8	9	8	8	9
	6554PCE		Dual	105	9	7	9	-	7	9
	6831RRS		Floury Leafy Silage	108	9	8	9	9	9	9
	6854PCE		Dual	108	7	8	8	-	7	7
	6959D		Dual	109	8	8	8	-	8	8
	7045G2Z		Silage/Dual	110	9	7	8	8	8	9
	7054PCE		Dual	110	8	9	9	-	9	9
	7060	7064PCE	Dual	110	9	7	8	-	8	9
	7259DV		Dual	112	9	7	8	8	8	9
	7300	7305RDP, 7309RSX	Dual	113	9	8	9	5	8	9
NEW	**7360**	7364PCE	Dual	113	7	8	9	-	8	8
	7444PCE		Dual	114	9	8	8	5	8	9
	7525RDP		Dual	115	9	8	7	5	7	9
	7539D4Z		Dual	115	8	7	9	7	8	8
	7550		Silage	115	9	9	8	9	9	9
	7554PCE		Dual	115	9	6	8	-	7	9
	7780	7789RSX	Dual	117	9	7	7	6	7	9
NEW	**7769SSP**		Dual	117	9	7	7	-	8	9

Rating Scale: 1-9, 9 = Excellent, 1 = Poor | **Plant Height:** T = Tall, MT = Medium-Tall, M = Medium | **Ear Height:** H = High, MH = Medium-High, M = Medium, ML = Medium-Low
Ear Type: F = Flex, SF = Semi-Flex, FX = Fixed, SFX = Semi-Fixed | **Leaf Orientation:** I = Intermediate, U = Upright, H = Horizontal | **Flowering for Maturity:** E = Early, M = Medium, ML = Medium-Late, L = Late
Cob Color: R = Red, W = White, P = Pink | **Fungicide Response:** H = High, M = Medium, L = Low

CORN SILAGE RATINGS

Chemgro designated "S" hybrids have been bred and developed for feed and silage use only. Each hybrid is derived from germplasm that results in a tall, leafy plant stature with long, full flex style ears. Flourly Leafy hybrids product 25%, and Full Floury Leafy hybrids product 100% of the kernels per ear containing a softer, more floury endosperm. This results in higher starch digestibility of 10+% over typical dual-purpose hybrids. Chemgro "S" hybrids must be planted at a low to medium populations not exceeding 30,000 ppa to maximize tonnage and achieve a good balance of digestible fiber and starch. When possible, isolate Chemgro "S" hybrids in fields or blocks to maximize expression of the floury kernels. Splitting planters or mixing with different hybrid types is not recommended within fields. Chopping at a 3/4" length is desirable to retain effective fiber in the forage ration. Harvest any excess corn for high moisture, earlage, or snaplage: Do not harvest as dry grain. For additional detailed information, please ask your Chemgro representative or refer to the Leafy Corn Silage Information Guide.

Trait Key: AA/G2Z = Agrisure® Above, **D/D4Z** = Duracade®, **DV/D5Z** = DuracadeViptera™, **DVZ** = DuracadeViptera™Z3, **GT/GTA** = Agrisure® GT, **PCE** = PowerCore® Enlist® Refuge Advanced®, **RDD** = DroughtGard® Hybrids with VT Double PRO® RIB Complete®, **RDP** = VT Double PRO® RIB Complete, **RR/RRN/RRS** = Roudup Ready® Corn 2, **RSX** = SmartStax® RIB Complete® Corn Blend, **SSP** = SmartStax® PRO with RNAi Technology, **RTC** = Trecpeta® RIB Complete® Corn Blend, **V/V4Z** = Viptera®

SILAGE CORN

	Product	Additional Versions	Relative Maturity	Approximate GDU's Black Layer	Grain / Silage	Plant Height	Ear Height	Ear Type	Leaf Orientation	Flowering for Maturity	Cob Color	Final Pop	Early Vigor	Drought Stress	Stalk Strength	Root Strength	Test Weight	Stay-green	Dry-down	Gray Leaf Spot	Northern CLB	Tar Spot	Overall Health	Fungicide Response	High Yield	Average Yield	Low Yield
NEW	**5161RRS**		91	-	Silage	T	M	F	H	L	W	24-30	7	6	5	7	3	7	-	4	6	-	5	H	9	8	6
	5731RRS		97	-	Silage	T	M	F	H	L	W	24-30	7	6	5	7	3	7	-	5	5	-	6	H	9	7	6
	6121RRS		101	-	Silage	T	M	F	H	L	W	24-30	7	7	5	8	3	8	-	5	5	-	5	H	9	8	6
	6831RRS		108	-	Silage	T	M	F	H	L	W	24-30	7	7	5	8	3	8	-	5	5	-	5	H	9	8	7
	7550		115	-	Silage	T	H	F	I	M	P	24-32	8	9	6	8	3	9	-	8	5	9	7	M	8	8	8

NOTES

Rating Scale: 1-9, 9 = Excellent, 1 = Poor | **Plant Height:** T = Tall, MT = Medium-Tall, M = Medium | **Ear Height:** H = High, MH = Medium-High, M = Medium, ML = Medium-Low
Ear Type: F = Flex, SF = Semi-Flex, FX = Fixed, SFX = Semi-Flixed | **Leaf Orientation:** I = Intermediate, U = Upright, H = Horizontal | **Flowering for Maturity:** E = Early, M = Medium, ML = Medium-Late, L = Late
Cob Color: R = Red, W = White, P = Pink | **Fungicide Response:** H = High, M = Medium, L = Low

SILAGE CORN

5161RRS

NEW PRODUCT

- Tall, leafy plants with full flex ear style
- White cob ears with soft, highly digestible kernels
- Produces 100% floury kernels on every ear yielding maximum starch digestibility
- Placement: Average to better soils planted at max 30K or less in the 85-95 RM zones of north of I80

5731RRS

- A full floury leafy hybrid to fit the 90-100 RM dairy market
- Tall plants with full flex ears that thrive at lower plant populations
- Produces 100% floury kernels on every ear yielding maximum starch digestibility
- Placement: Average to better soils at <30K in the 90-100 RM zones of PA and NY

6121RRS

- Very tall plants with long, full flex ears on a white cob
- Delivers strong tonnage and a long, forgiving harvest window
- Large, soft kernels with 25% floury endosperm
- Placement: Average to better soils planted at max 30K or less in the 95-105 RM zones of north of I80

6831RRS

- Medium placed full flex ears with 25% floury endosperm kernels
- Tall plants with strong tonnage potential and slow drying for a long harvest window
- 10-12% increase in starch digestibility over dual-purpose hybrids
- Placement: Average to better soils planted at max 30K or less in the 100-110 RM zones from CPA north

7550

- Large, tall plants producing competitive tonnage per acre
- Strong ear flex with best performance at low to moderate pops
- Class leading fiber and starch digestibility producing superior milk yield
- Excellent stay-green with slow drying for a long, wide silage harvest window
- Placement: Best at low to moderate pops across all soils and yield environments from CPA south

NOTES

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CORN

	Product	Additional Versions	Relative Maturity	Approximate GDU's Black Layer	Grain / Silage	Plant Height	Ear Height	Ear Type	Leaf Orientation	Flowering for Maturity	Cob Color	Final Pop	Early Vigor	Drought Stress	Stalk Strength	Root Strength	Test Weight	Stay-green	Dry-down	Gray Leaf Spot	Northern CLB	Tar Spot	Overall Health	Fungicide Response	High Yield	Average Yield	Low Yield
	4645G2Z		86	2125	Grain	MT	M	SF	I	E	R	30-36	8	9	8	8	6	8	8	6	6	-	6	M	9	9	9
	4900	4905G2Z, 4909D4Z	89	2180	Dual	MT	M	SFX	U	M	R	30-36	8	7	8	6	6	8	8	7	5	-	6	M	9	8	7
	5055AA		90	2210	Grain	MT	M	SF	U	M	R	24-34	8	8	6	6	7	6	6	8	6	5	6	H	9	8	8
NEW	**5060**	5064PCE	90	2240	Dual	MT	MH	SF	I	M	R	26-36	8	6	8	6	6	8	7	6	6	6	6	H	9	8	6
	5120	5121GTA, 5125V4Z, 5129D5Z	91	2275	Dual	MT	M	SF	U	M	R	26-34	8	8	7	6	6	6	7	4	6	-	6	H	9	9	8
	5145RDP		91	2280	Grain	MT	MH	SF	U	M	R	28-36	7	6	8	7	8	8	5	8	8	5	7	M	9	9	7
	5450	5451GT, 5455V, 5459DV	94	2320	Dual	MT	M	SF	U	M	R	26-34	7	6	7	6	6	8	6	7	6	5	6	H	9	9	7
	5500	5505RDP	95	2400	Grain	M	M	SF	I	ML	R	30-38	9	8	7	9	7	6	8	5	6	-	6	H	8	9	9
	5544RDD		95	2390	Dual	T	MH	F	I	M	R	24-34	8	8	7	7	9	5	8	5	6	-	6	H	7	8	9
	5640	5644PCE	96	2395	Dual	T	M	SF	U	M	R	28-36	8	6	8	7	7	9	6	7	8	7	7	M	9	8	6

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4645G2Z

- A medium-tall, versatile hybrid for the mid-80 RM zone
- Consistent, high yield potential with broad adaptation
- Good disease package with average test weight grain
- Brings more top-end potential to this maturity versus the 4661GTA family of hybrids
- Placement: Average to highly productive soils at moderately high populations

5055AA

- Medium-tall plants with very strong ear flex
- Average plant health and test weight, will benefit from a fungicide
- Strong across all yield levels, with strong performance in the East
- Consistent high yields across N locations
- Placement: All soils at low to medium pops in the 95 and earlier RM zone

5120 | 5121GTA | 5125V4Z | 5129D5Z

- Top-end yield potential with strong drought stress tolerance
- Good adaptation to varied soils and plant populations
- Semi-flex ears on a medium-tall plant with dual-purpose potential
- Moderate test weight grain, on a girthy ear with good ear flex
- Placement: All soils, yield levels, and plant populations

5450 | 5451GT | 5455V | 5459DV

- Girthy, showy, flex style ears with average test weight
- Strong performer on average + soils in northern environments
- Strong stay-green and plant intactness
- Multiple trait platform hybrid providing choices for the 90-100 RM PA and NY acres
- Placement: All soils at all populations across the NY and PA 95 RM acres

5544RDD

- Excellent hybrid option to be placed on the medium to low performing, tough acres
- Strong ear flex with very high test weight grain
- Very good drought and stress tolerance with population flexibility
- Average plant health with fast grain dry-down
- Placement: Medium to low populations, on moderate yielding acres

4900 | 4905G2Z | 4909D4Z

- Consistent yielder in northern environments
- Excellent agronomics, solid health, stalks and standability
- Dual-purpose potential with multiple trait options
- Good test weight grain with good dry-down
- Placement: Average to better soils at moderately high populations in the 85-95 RM zones of PA and NY

5060 | 5064PCE

NEW PRODUCT

- Strong genetic potential on a dual-purpose platform for the early maturity zones
- Strong stay-green and late season intactness that flares husk for good dry-down
- Blocky kernels on semi-flex ears with good ear flex
- Brings genetic diversity to the RM with strong top-end yield potential
- Placement: Average to better soils and fertility levels across most populations in the 85-95 RM zones of NY

5145RDP

- Excellent yield potential with season long plant health
- Top tier stay-green and late-season plant integrity
- Semi-flex ears with good test weight grain
- Strong yield performance out-pacing 5295RDP by 10 bu. Over 3 years of testing
- Placement: Average to high producing soils at medium to high populations

5500 | 5505RDP

- Medium sized grain hybrid with excellent roots and strong standability
- Excellent on the tough acres and across varied soils
- Good drought tolerance and excellent early growth and vigor
- Strong adaptation to north of I80 in PA and into NY in the 90-100 RM zone
- Placement: Rotated fields with tough, variable soils and fertility

5640 | 5644PCE

- Genetic diversity in a high performing hybrid for the 90-100 RM zone
- Strong disease package and excellent stay-green
- Average test weight grain on girthy, moderately long tapered ears
- Strong silage potential and tolerance to higher populations
- Placement: Average to high producing soils in the 90-100 zones of PA and NY

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CORN

	Product	Additional Versions	Relative Maturity	Approximate GDU's Black Layer	Grain / Silage	Plant Height	Ear Height	Ear Type	Leaf Orientation	Flowering for Maturity	Cob Color	Final Pop	Early Vigor	Drought Stress	Stalk Strength	Root Strength	Test Weight	Stay-green	Dry-down	Gray Leaf Spot	Northern CLB	Tar Spot	Overall Health	Fungicide Response	High Yield	Average Yield	Low Yield
	5659DV		96	2400	Dual	MT	MH	SF	I	M	R	26-34	6	7	8	8	6	6	6	6	6	8	6	H	8	9	8
	5700	5701GT, 5705V4Z	97	2400	Dual	MT	M	F	U	M	R	28-36	8	7	8	6	9	8	6	7	6	-	7	M	9	8	7
	5836RTC		98	2475	Dual	MT	MH	F	I	L	R	28-36	7	8	8	7	6	7	7	6	5	4	5	H	9	9	7
NEW	**5950**		99	2485	Dual	MT	MH	SF	I	M	R	26-36	7	7	7	7	6	7	8	6	8	6	7	M	8	8	8
	6029D4Z		100	2450	Dual	MT	M	SF	U	M	R	30-38	8	6	8	8	7	7	7	8	5	7	6	M	8	8	8
	6110	6115RDP	101	2510	Dual	M	M	SF	I	M	R	26-36	6	6	8	7	6	6	6	6	7	5	6	H	9	8	6
	6155V		101	2500	Dual	MT	MH	F	I	M	R	24-36	8	6	8	8	8	8	8	7	6	8	6	H	9	8	6
	6219D5Z		102	2520	Dual	T	M	SF	I	E	P	26-38	8	7	9	9	9	5	9	4	6	-	5	H	8	9	8
NEW	**6364PCE**		103	2570	Dual	M	M	SF	I	M	R	24-36	8	8	8	6	6	8	6	6	8	7	7	M	9	9	8
NEW	**6368RTC**		103	2500	Grain	M	M	F	I	E	R	26-36	7	7	7	6	7	8	8	5	7	5	6	H	9	9	8

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Ear Type: F = Flex, SF = Semi-Flex, FX = Fixed, SFX = Semi-Flixed | **Leaf Orientation:** I = Intermediate, U = Upright, H = Horizontal | **Flowering for Maturity:** E = Early, M = Medium, ML = Medium-Late, L = Late
Cob Color: R = Red, W = White, P = Pink | **Fungicide Response:** H = High, M = Medium, L = Low

5659DV

- Medium-tall hybrid for the corn on corn DP silage acre
- Broadly adapted hybrid that performs across soils and yield levels
- Average disease package with strong stalks and roots
- Strong silage potential with tonnage and high starch digestibility
- Placement: Medium populations across all soils in the 90-105 RM Zone

5836RTC

- Exceptional yield potential with strong performance over years
- Large, girthy ears with flex and average test weight grain
- Strong stalk and root strength with good silage potential
- A later flowering hybrid with fast dry-down for its maturity
- Placement: Medium to high producing soils from CPA north into NY

6029D4Z

- Strong agronomic package with excellent overall plant health
- Great ear flex with very good grain quality and test weight
- Well adapted to the northeast on varied soils and fertility
- A good dual-purpose hybrid with excellent performance corn on corn: very strong GLS protection
- Placement: All soils and yield levels from SCPA and north

6155V

- Medium-tall hybrid with full flex ears
- High test weight grain with wide adaptation to moderate to high yield levels
- Strong eastern performance
- Good dual-purpose option with Viptera above ground protection
- Placement: Low to medium populations on moderate to high performing soils

6364PCE

NEW PRODUCT

- Medium plants with strong disease package and agronomics
- Girthy ears with good flex, length and kernel depth
- Average test weight grain and moderately fast dry-down
- Consistent performance across varied yield conditions, X8425 in 2024 Chemgro testing
- Placement: All soils and yield levels across the 100-110 RM zones of PA and NY

5700 | 5701GT | 5705V4Z

- Consistent yield potential with excellent adaptation to the northeast environment
- Strong stalks, plant health and late-season integrity
- Very good grain quality with flex, and girthy 16-18 row ears
- Good dual-purpose potential and can move south of adapted zone
- Placement: Average to better soils planted at moderate to high populations

5950

NEW PRODUCT

- Consistent conventional option that performs across soils and environments
- Taller, robust plants with good dual-purpose potential
- Good disease package in a hybrid that handles varied fertility and soils
- X7983 in 2024 testing showing strong late season intactness
- Placement: All soils at moderate populations in the 95-105 RM zones

6110 | 6115RDP

- Medium statured plants with girthy, semi-flex ears
- Consistent ear size with 18-20 rows of good test weight grain
- Dominant yield potential for RM with good standability
- Above average silage with strong tonnage and average NDFD
- Placement: Medium to high producing soils from I80 north in the 95-105 RM zones

6219D5Z

- Tall plants with moderately placed, semi-flex ears
- 18-20+ row around ears with outstanding grain quality and test weight
- Fast dry-down for maturity but brings outstanding stalk strength and intactness
- Widely adapted across soils and conditions, caution in high GLS pressure fields
- Placement: Strongest performance on medium soils from CPA north in the 95-105 RM zone

6368RTC

NEW PRODUCT

- An offensive hybrid with good ear flex, test weight, and dry-down
- Strong early plant vigor with good drought stress tolerance
- Good stay-green and harvest appearance/intactness
- X8320 in 2024 testing with strong performance from CPA north into NY
- Placement: Moderate populations on all soils in the 95-105 RM zones of CPA north into CNY

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CORN

Product	Additional Versions	Relative Maturity	Approximate GDU's Black Layer	Grain / Silage	Plant Height	Ear Height	Ear Type	Leaf Orientation	Flowering for Maturity	Cob Color	Final Pop	Early Vigor	Drought Stress	Stalk Strength	Root Strength	Test Weight	Stay-green	Dry-down	Gray Leaf Spot	Northern CLB	Tar Spot	Overall Health	Fungicide Response	High Yield	Average Yield	Low Yield
6411GT	6419D4Z	104	2550	Dual	MT	MH	F	I	M	P	26-36	6	8	7	6	6	5	7	4	6	5	5	H	8	9	8
6430	6434PCE	104	2575	Dual	MT	M	SF	U	M	R	26-36	7	7	7	6	8	8	6	7	7	7	7	M	8	9	6
6535RDD	6539RSX	105	2600	Dual	MT	M	SF	U	L	R	26-36	7	9	7	6	6	6	8	8	4	3	5	H	9	9	9
6554PCE		105	2575	Dual	MT	MH	F	I	L	P	24-36	8	6	7	7	8	7	8	7	7	6	6	H	9	8	6
6725RDP		107	2680	Grain	M	M	SF	U	ML	R	26-34	8	7	8	6	7	6	8	7	7	4	7	M	9	9	6
6750		107	2700	Grain	MT	MH	SF	I	M	R	26-36	7	6	7	8	8	7	7	9	6	7	7	M	9	7	7
6755V		107	2650	Dual	T	H	F	H	M	R	24-36	9	7	6	8	6	6	6	7	7	8	9	L	9	8	8
6854PCE		108	2660	Grain	MT	M	SF	U	L	P	26-36	7	7	9	8	8	8	6	8	8	8	8	M	9	8	7
6858RSX		108	2700	Grain	M	M	SF	U	M	R	26-38	6	6	7	7	9	6	9	7	7	4	6	H	9	9	6
6929RSX		109	2650	Dual	MT	MH	FX	I	M	P	30-38	7	7	8	7	6	7	9	5	7	5	6	H	9	8	6

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6411GT | 6419D4Z

- Medium-high placed ears with girth and 18+ rows around
- Strong ear flex with average grain quality and test weight
- Strong silage first option, with dual-purpose utility
- Strong NDFD silage with high starch content and availability
- Placement: CPA and north on dual-purpose acres in the 95-110 RM zone

6430 | 6434PCE

- Good test weight grain on moderately girthy, tapered, semi-flex ears
- Great disease package with strong GLS and tar spot resistance
- Good adaptation to the northeast 95-105 day RM zones
- Excellent stalk strength and late-season plant integrity
- Placement: Medium to high production soils at average populations from CPA north

6535RDD | 6539RSX

- Exciting yield performance and consistency across all soils and yield levels
- Long, thin flex ears with average test weight grain
- Late flowering for maturity with fast dry-down
- Excellent under stress and droughty soils and conditions
- Placement: All soils and yield levels from SEPA and north

6554PCE

- Genetic diversity delivered in a showy hybrid with girthy, full flex style ears
- Moves south for maturity, with average plant health and fast grain dry-down
- Strong dual-purpose hybrid showing strong silage tonnage and quality potential
- Lots of flex and high end potential when pushed for high yields
- Placement: Moderate pops on higher producing soils in the 100-110 RM zones of the northeast

6725RDP

- Medium statured hybrid bringing consistent high yield levels across the mid-Atlantic
- Semi-flex ears with average test weight and good grain quality
- Excellent dry-down with good stalks and average root strength
- Plant at moderate populations across medium to high yield environments
- Placement: Delmarva north in to CPA in the 105-115 RM zone

6750

- Strong performing conventional with excellent plant health and GLS tolerance
- An attractive hybrid with a high top-end when pushed
- Excellent test weight grain on moderately girthy, tapered ears
- A healthy conventional options with good grain potential
- Placement: Medium populations on average to better soils from Route 80 and south

6755V

- A healthy genetic package with dual-purpose potential
- Large, flex style ears with average test weight
- Broadly adapted across soils and yield levels in the northeast
- Works across varied yield and population levels
- Placement: Dual-purpose acres at all populations and soils throughout CPA

6854PCE

- Long, tapered, girthy ears with very good grain quality and test weight
- Strong plant health package with strong stalks, roots, and late-season intactness
- Excellent ear flex at lower pops with broad adaptation across soils
- Best in class plant health for high disease environments
- Placement: Medium to high pops on all soils from CPA south into MD and VA

6858RSX

- Medium plants with consistent ear size
- High test weight grain that likes medium to high plant pops
- Consistent across yield levels and soils, responds to fungicide in high disease areas
- Strong stress and heat tolerance and moves south well for maturity
- Placement: Medium to high pops on average to high yielding corn on corn acres from Route 80 south

6929RSX

- Strong standability and fall appearance on a hybrid with medium-high placed ears
- Fixed, girthy, showy tapered ears with 18+ kernel rows
- Average test weight grain with consistent strong yield performance
- Dual-purpose silage options with strong corn on corn performance
- Placement: Delmarva to NCPA on average to high producing corn on corn acres

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CORN

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	6930		109	2710	Grain	MT	MH	SF	I	E	P	28-36	8	6	7	6	9	8	6	9	6	5	7	M	9	9	6
	6959D		109	2700	Dual	MT	MH	SF	I	M	R	26-36	8	8	8	6	6	6	6	8	8	5	7	M	7	8	9
NEW	**6968RTC**		109	2650	Grain	MT	MH	SF	I	M	R	28-38	6	7	7	7	8	5	9	5	5	5	5	H	9	9	8
	7035RDP		110	2720	Dual	MT	MH	SF	I	M	R	26-36	9	6	7	8	9	8	7	9	7	7	8	L	8	9	8
	7045G2Z		110	2720	Silage/ Dual	MT	MH	F	I	L	R	26-36	8	8	8	6	6	8	6	8	8	6	8	M	7	9	9
	7054PCE		110	2700	Dual	MT	MH	F	I	E	P	24-34	7	6	9	7	8	7	8	7	6	6	6	H	9	7	6
NEW	**7060**	7064PCE	110	2735	Dual	M	M	SF	I	L	R	26-36	8	7	9	8	6	8	8	8	5	6	6	H	9	8	6
	7140	7145RDP	111	2740	Dual	MT	M	FX	U	M	R	30-36	8	8	8	8	8	7	6	6	6	5	6	M	9	9	8
	7144PCE		111	2700	Dual	M	M	F	I	M	P	26-36	9	6	8	7	8	9	7	7	7	8	7	M	9	7	5
	7255RDP		112	2720	Grain	M	M	SF	I	M	R	26-36	7	8	7	7	8	8	7	7	8	5	7	M	9	9	8

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6930

- Conventional hybrid with outstanding test weight grain
- Girthy, very showy, moderately long tapered ears
- Strong silage tonnage potential with at best average quality
- Strong stalks and roots with good GLS tolerance
- Placement: Average to better soils at average populations from the Delmarva north into PA

6968RTC

NEW PRODUCT

- High yield potential with good test weight grain
- Very fast dry-down for maturity with a good amount of ear flex and drought tolerance
- Avoid high disease environments without ability to use a fungicide
- X8933 in 2024 testing, topping the C2 trial with highest yield and low moisture
- Placement: Medium populations on all soils on rotated acres from CPA south

7045G2Z

- A versatile hybrid with a great fit for the northeast dairy acres
- Taller plants with full ear flex, handles lower populations
- Excellent GLS and NCLB disease resistance with strong stalk strength
- Excellent health, stay-green, starch digestibility and overall silage potential
- Placement: The average producing silage/high moisture acres of SE/CPA at low to medium pops

7060 | 7064PCE

NEW PRODUCT

- Girthy, tapered ears with consistent potential across the mid-Atlantic
- Average test weight grain with deep kernels and good ear flex
- Covers a lot of acres with consistent grain yield and above average silage potential
- X9045 with a strong 2 year consistent performance record through 2023-2024 testing
- Placement: Average to high producing soils and fertility from CPA and moves all the way south

7144PCE

- Top-end environment yield leader bringing excellent ear flex
- Above average test weight on girthy, tapered ears with 18-20 rows
- Good plant health package with strong tolerance to tar spot
- Good silage profile yielding high starch and NDFD
- Placement: Medium populations on high producing soils with high fertility levels

6959D

- A workhorse dual-purpose hybrid for the average PA silage acre
- Strong agronomics with excellent stress tolerance and foliar disease protection
- A tough hybrid that shines at the moderate to lower yield levels
- Good silage tonnage with high starch digestibility
- Placement: Medium populations on moderate yielding dual-purpose corn on corn acres

7035RDP

- Long, semi-flex ears with very high test weight grain
- Excellent plant health package, shines in high disease environments of the northeast
- A workhorse hybrid with outstanding stay-green and late-season appearance
- Strong stress tolerance and adapts to lower plant populations
- Placement: Delmarva and north into CPA on low to moderate yield environments

7054PCE

- A new hybrid bringing genetic diversity and top yield potential
- Full flex ears with good test weight and dry-down for maturity
- Strong silage tonnage potential with high NDFD
- Great dual-purpose fit for rotated, high producing acres
- Placement: Productive acres at moderate pops from I80 south into MD and VA

7140 | 7145RDP

- Extreme consistency across multiple years with very good test weight
- Good disease package with excellent stalk and root strength
- Excellent tip fill at all populations with good stress tolerance
- Excellent adaptation from I80 South at all yield levels, fertility and soils
- Placement: Performs on all soils and populations from north to south

7255RDP

- Consistent, proven performance tested as Chemgro X9268 in 2022 and 2023
- Good ear flex, with girthy, moderately long ears
- Healthy plants with excellent late season intactness and standability
- An easy harvesting hybrid with strong potential for rotated acres
- Placement: Medium range populations across all soils from CPA and south

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CORN

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7259DV		112	2750	Dual	T	M	SF	U	L	R	26-38	8	7	7	6	6	8	6	8	8	8	8	L	8	8	8
7300	7305RDP, 7309RSX	113	2790	Dual	T	MH	SF	H	M	R	28-36	7	8	7	8	8	8	6	8	8	5	8	M	9	9	8
7335RDD		113	2740	Grain	M	M	SF	I	M	R	30-38	6	7	8	8	8	6	7	7	8	3	7	M	9	9	7
NEW **7360**	7364PCE	113	2775	Dual	MT	M	F	I	E	R	24-34	7	6	7	7	7	8	7	8	8	7	8	M	9	8	6
7444PCE		114	2725	Dual	T	H	F	U	E	R	24-34	8	6	7	7	9	9	7	7	8	8	8	L	9	9	6
7455AA		114	2750	Grain	T	H	F	U	M	R	28-36	8	6	6	6	9	5	9	5	5	8	6	H	9	8	6
7501RR	7505RDP	115	2800	Grain	M	ML	SF	U	M	R	30-38	9	8	7	8	9	6	8	5	7	5	6	M	9	8	8
7525RDP		115	2900	Dual	T	MH	F	U	L	R	28-36	6	8	8	7	9	6	6	7	8	4	7	M	9	9	7
7539D4Z		115	2780	Silage/ Dual	T	MH	F	H	M	R	26-36	9	8	7	8	6	9	7	8	8	8	8	L	9	9	9
7554PCE		115	2850	Dual	MT	M	F	I	L	R	24-34	6	7	7	7	8	7	8	8	6	5	6	M	9	9	8

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7259DV

- Strong dual-purpose hybrid for the corn on corn silage acre
- Excellent plant health with strong stalk strength
- Slower drying, easy to harvest silage hybrid with consistent tonnage
- Tall, narrow canopy plants that can handle higher pops or narrow rows
- Placement: Medium to high populations on the PA corn on corn silage acres across all yield levels

7300 | 7305RDP | 7309RSX

- Consistent performance across the northeast over multiple years and conditions
- A taller hybrid with a strong silage profile and tonnage potential
- Girthy, moderately long ears with good ear flex
- Excellent GLS tolerance with average stalk strength
- Placement: CPA and south across all soils, populations and conditions

7335RDD

- Strong grain yields in moderate to high yield environments
- Excellent test weight, grain quality with consistent ear size
- Good late-season plant health, intactness and standability
- An offensive, high yield product that yields return when pushed
- Placement: Moderate to high producing soils at higher populations from SEPA and south

7360 | 7364PCE

NEW PRODUCT

- Industry leading top end yield potential, with outstanding ear flex
- Prefers moderate to low populations and can respond to high management
- Great plant health and intactness with good test weight
- X9214 in 2024 testing, with very strong performance
- Placement: Medium to high yield environments at moderate to low pops, from CPA and south

7444PCE

- Outstanding high yield potential with very high test weight grain
- Full flex, long ears with excellent grain quality
- Very good tolerance to tar spot with excellent stay-green
- Strong silage performer with high tonnage and above average NDFD
- Placement: Southern counties of PA and south on average to better soils at low to medium pops

7455AA

- Strong yields with very high test weight grain
- Full flex type ears that handle moderate populations
- Responds well to high yield environments
- Strong tar spot protection, benefits from fungicide for GLS and NCLB
- Placement: High yield environments from southern PA and south into MD, NVA and DMVA

7501RR | 7505RDP

- Medium plants with very good stalks, roots and late-season intactness
- Excellent grain quality and test weight with girthy, 18-20 row ears
- Good ear flex in a grain hybrid with strong heat tolerance
- Best adaptation from the Blue Mountain south, into the higher heat unit areas of the east
- Placement: Performs across soils from low to high yield conditions at average to higher pops

7525RDP

- A full season yield leader with excellent agronomics
- Long, girthy flex style ears with 18-20 kernel rows of high test weight grain
- Excellent stalk and root strength on a large, dual-purpose plant
- Performs best in high heat unit areas: southern counties of PA and south
- Placement: Medium to high yield environments at moderate populations

7539D4Z

- Strong hybrid for corn on corn silage/dual-purpose acres
- Excellent plant health with agronomic stability under stress
- Large kernels with average test weight on girthy, flex type ears
- First choice for silage, high moisture dairy acres from CPA and south
- Placement: CPA and south on all soils, fertility levels, at moderate populations

7554PCE

- Medium-tall plants with full, flex style ears
- Good GLS with strong tolerance to Southern Rust
- Good test weight grain on long ears with deep kernels
- Fast dry-down for maturity
- Placement: All soils and environments at low to medium pops from SPA and south

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CORN

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NEW	**7769SSP**		117	2825	Dual	T	MH	SF	I	M	R	26-36	7	7	8	7	7	8	7	7	5	6	7	M	9	9	6
	7780	7789RSX	117	2900	Dual	MT	M	SF	U	M	R	28-36	7	8	8	8	8	8	6	6	8	5	7	M	8	8	8

NOTES

Rating Scale: 1-9, 9 = Excellent, 1 = Poor | **Plant Height:** T = Tall, MT = Medium-Tall, M = Medium | **Ear Height:** H = High, MH = Medium-High, M = Medium, ML = Medium-Low
Ear Type: F = Flex, SF = Semi-Flex, FX = Fixed, SFX = Semi-Flixed | **Leaf Orientation:** I = Intermediate, U = Upright, H = Horizontal | **Flowering for Maturity:** E = Early, M = Medium, ML = Medium-Late, L = Late
Cob Color: R = Red, W = White, P = Pink | **Fungicide Response:** H = High, M = Medium, L = Low

7769SSP

NEW PRODUCT

- A tall silage option with strong tonnage and good corn on corn performance
- Good plant health, excellent tolerance to southern corn leaf blight
- Girthy, semi-flex ears that handle medium populations
- X9742 in 2024 Chemgro testing
- Placement: Medium to high productive soils at medium populations from SPA south

7780 | 7789RSX

- A full season hybrid with consistent, year over year silage performance
- Widely adapted across soils, regions and across yield levels
- Healthy plants that fit corn on corn rotations
- Strong consistent tonnage with high milk/acre returns
- Placement: CPA and south on all soils at medium populations

Hybrid Corn Seed Sizes & Planting Recommendations*

ALWAYS STOP AND MAKE ACTUAL & PERIODIC FIELD CHECKS (OF DEPTH & PLACEMENT) WHEN PLANTING & FIELD CONDITIONS CHANGE TO INSURE PROPER PLANTER & SPEED SETTINGS. NORMAL DEPTH IS 2" +/-

Heavier Seed Drop	Non-Plate-Type Planters (Initial Settings)				Ligher Seed Drop
Weight of 80K Kernel Bag	**> 53. 5 lbs**	**53.5 to 47 lbs**	**47 to 41 lbs**	**41 to 35 lbs**	**35 to 29 lbs**
Kernels Per Pound	**1500 or Fewer**	**1501 - 1700**	**1701 - 1950**	**1951 - 2300**	**2301 - 2750**
Case-IH 1200 Series ASM	**Disc:** 4855 or 2455 (1) **Vacuum:** 20 - 22	**Disc:** 4855 or 2455 (1) **Vacuum:** 20 - 22	**Disc:** 4855 or 2455 (1) **Vacuum:** 18 - 20	**Disc:** 4855 or 2455 (1) **Vacuum:** 18 - 20	**Disc:** 4855 or 2455 (1) **Vacuum:** 18 - 20
Case-IH Early (2) Riser Cyclo	11 - 14 oz **Brush:** Full Down	10 - 11 oz **Brush:** Half Down	9 - 10 oz **Brush:** Half Down	8 - 9 oz **Brush:** Full UP	8 - 9 oz **Brush:** Full UP
John Deere (3) Finger Pickup	Recommended Speed	Recommended Speed	Recommended Speed	Reduce Speed 10%	Reduce Speed 20%
John Deere Vacuum	**Disc:** A50617 **Vacuum:** 9.0 - 11.0	**Disc:** A50617 **Vacuum:** 8.0 - 9.0	**Disc:** A50617 **Vacuum:** 6.5 - 8.0 **Disc:** A43215 **Vacuum:** 9.5 - 11.0	**Disc:** A43215 **Vacuum:** 7.5 - 9.5	**Disc:** A43215 **Vacuum:** 4.5 - 7.5
White (4) 5100/6100	**Disc:** 852434 **Air:** 2.0 - 2.5 **Disc:** 852435 **Air:** 2.0 - 2.5	**Disc:** 852435 **Air:** 1.8 - 2.2	**Disc:** 852435 **Air:** 1.5 - 1.8 **Disc:** 852436 **Air:** 3.4 - 3.8	**Disc:** 852436 **Air:** 2.8 - 3.4	**Disc:** 852436 **Air:** 2.2 - 2.8

This info is only meant to be a "rough" guide. Refer to your Planter Manual for more detailed planter settings.

(1.) 2455 seed disc for in-row spacing of 8 inches or more and low speeds.
(2.) CASE-IH - Recommended seed hopper pressures.
(3.) JD- Excessive speed or wear on brushes & back plates can cause overdrop.
(4.) NEW IDEA Air planter - uses same discs as White.

Trait Key: AA/G2Z = Agrisure® Above, **D/D4Z** = Duracade®, **DV/D5Z** = DuracadeViptera™, **DVZ** = DuracadeViptera™Z3, **GT/GTA** = Agrisure® GT, **PCE** = PowerCore® Enlist® Refuge Advanced®, **RDD** = DroughtGard® Hybrids with VT Double PRO® RIB Complete®, **RDP** = VT Double PRO® RIB Complete, **RR/RRN/RRS** = Roudup Ready® Corn 2, **RSX** = SmartStax® RIB Complete® Corn Blend, **SSP** = SmartStax® PRO with RNAi Technology, **RTC** = Trecpeta® RIB Complete® Corn Blend, **V/V4Z** = Viptera®

SOYBEAN

	Product	Relative Maturity	Plant Height	Plant Type	Standability	Emergence	PRR Tolerance	PRR Gene Resistance	Soybean Cyst Nematode Type	Sudden Death Syndrome	Sclerotinia White Mold	Brown Stem Rot	Iron Deficiency	Pubescence	Pod	Hilum	Flower
	C1458E	1.4	Medium+	Bush	2.0	1.0	1.0	3a	PI88788	1.8	2.0	3.0	1.0	Gray	Brown	Buff	White
NEW	C1959E	1.9	Medium-Tall	Med-Bush	2.0	2.0	2.0	3a	PI88788	2.0	2.5	2.0	2.5	Light Tawny	Brown	Brown	Purple
	C2557E	2.5	Medium+	Bush	2.0	2.0	2.5	1k	Peking	2.0	2.5	1.5	2.0	Light Tawny	Tan	Black	Purple
NEW	C2859E	2.8	Medium+	Medium	1.5	1.5	1.5	1k	PI88788	2.0	2.0	3.0	-	Light Tawny	Brown	Black	White
	C3138G	3.1	Tall	Medium	2.0	1.5	2.0	1c	-	2.2	2.1	1.5	2.0	Tawny	Brown	Black	Purple
	C3158E	3.1	Medium	Med-Bush	2.0	1.5	2.0	1k	Peking	1.5	2.0	2.0	-	Light Tawny	Brown	Black	White
	C3354E	3.3	Medium-Tall	Bush	2.0	1.2	1.3	-	PI88788	2.6	-	2.0	1.2	Light Tawny	Brown	Brown	Purple
	C3357E	3.3	Medium-Tall	Med-Bush	1.5	1.0	1.0	-	Peking	1.5	-	1.5	2.0	Gray	Tan	Imp. Black	Purple
	C3539G	3.5	Tall	Narrow	3.0	1.7	1.6	1c	PI88788	2.1	-	2.5	-	Gray	Brown	Black	Purple
	C3558E	3.5	Medium	Narrow-Bush	1.5	2.0	1.0	1k	PI88788	2.0	1.0	2.5	-	Light Tawny	Brown	Brown	Purple
NEW	C3759E	3.7	Medium-Tall	Med-Bush	2.0	1.0	1.2	1k	PI88788	1.5	-	3.0	2.0	Light Tawny	Brown	Black	White
	C3957E	3.9	Medium-Tall	Med-Bush	2.0	1.5	2.0	-	PI88788	1.5	1.0	-	-	Gray	Brown	Buff	White

Rating Scale: 1-5, 1 = Excellent, 5 = Poor

C1458E

- A tuff line with excellent stress tolerance
- Handles heavy soils with very strong branching
- Great early option for the clay soils of New York

C1959E

NEW PRODUCT

- Attractive, great looking line with good standability
- Good overall agronomics on all diseases
- Top yielding genetics in the late group I for the CNY region

C2557E

- Excels across soils and yield environments
- Medium/medium-tall plants with excellent branching
- Attractive light tawny tan variety with good standability

C2859E

NEW PRODUCT

- Remarkably consistent variety across soils and environments
- Strong standability with medium plus plant height
- High level of top end potential in a late group 2 for CPA

C3138G

- A tall line that thrives on the tough acres
- Consistent yield performance over years under stress
- An attractive "old stand-by" with years of consistent performance

C3158E

- Strong yields in all environments
- A sharp, light tawny line with a compact look
- Strong adaptation to the east, X43215 in 2023 Chemgro testing

C3354E

- Medium-tall plants with strong top-end potential
- High yields with solid defensive characteristics
- History of consistent high yield across CPA

C3357E

- A strong defensive line with stability across soil types
- Great stress tolerance and phytophthora resistance
- Good standability and performance across low and high yield environments

C3539G

- A tall line with consistent performance over many years
- A narrow, small seeded line that performs best in narrow rows at high pops
- Excellent option for variable, tough, stressed, double-crop acres

C3558E

- Compact, medium plants with strong standability
- Outstanding line for the high yield environment
- Good lateral branching with strong yield potential

C3759E

NEW PRODUCT

- Dominant yield performance in the later group III maturity
- Unique, upright branching with strong standability and stress tolerance
- High level of performance in 2024 as X43804

C3957E

- Medium-tall, medium bushy plants
- Grey brown plants with very good standability
- Excellent emergence and strong SDS tolerance

Trait Key: E = Enlist E3®, **ES** = Enlist E3®/STS®, **G** = Glyphosate Tolerant

SOYBEAN

Product	Relative Maturity	Plant Height	Plant Type	Standability	Emergence	PRR Tolerance	PRR Gene Resistance	Soybean Cyst Nematode Type	Sudden Death Syndrome	Sclerotinia White Mold	Brown Stem Rot	Iron Deficiency	Pubescence	Pod	Hilum	Flower
C4040GS	4.0	Medium-Tall	Medium	1.4	1.5	2.0	-	-	2.0	-	-	-	Tawny	Tan	Black	Purple
NEW C4559E	4.5	Medium-Tall	Medium	2.0	2.0	1.0	1k	PI88788	3.0	-	-	3.0	Light Tawny	Brown	Black	White
C4957ES	4.9	Medium-Tall	Med-Bush	1.3	1.0	1.8	1c	PI88788	-	1.0	1.0	-	Gray	Brown	Buff	White

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

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.

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. Plants that are not tolerant to glyphosate may be damaged or killed if exposed to those herbicides. 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. Respect the Refuge and Corn Design® and Respect the Refuge® are registered trademarks of National Corn Growers Association. Acceleron®, DroughtGard®, RIB Complete®, Roundup Ready 2 Technology and Design®, Roundup Ready®, SmartStax®, Trecepta®, VT Double PRO®, and VT4PRO™ are trademarks of Bayer Group.

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

YieldGard VT Pro® is a registered trademark used under license from the Bayer Group. More information about Duracade® is available at www.biotradestatus.com.

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

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

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.

Enlist E3® soybean seeds containing the Enlist® trait can only be used to plant a single commercial crop. It is unlawful to save and replant Enlist E3 soybeans. Additional information and limitations on the use of these products are provided in the Corteva Agriscience Technology Use Agreement and Enlist® Soybean Product Use Guide. U.S. patents for Corteva Agriscience technologies can be found at www.corteva.us/Resources/trait-stewardship.html.

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.

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 *B.t.* technology, including refuge examples and important information on the use of insecticides on refuge and *B.t.* 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.

Following burndown, Enlist Duo® and Enlist One® herbicides with Colex-D® technology are the only herbicides containing 2,4-D that are authorized for preemergence and postemergence use with Enlist® crops. Consult Enlist® herbicide labels for weed species controlled. Enlist Duo and Enlist One herbicides are not registered for use or sale in all states and counties; are not registered in AK, CA, CT, HI, ID, MA, ME, MT, NH, NV, OR, RI, UT, VT, WA and WY; and have additional subcounty restrictions in AL, GA, TN and TX, while existing county restrictions still remain in FL. All users must check "Bulletins Live! Two" no earlier than six months before using Enlist One or Enlist Duo. To obtain "Bulletins," consult epa.gov/espp/, call 1-844-447-3813, or email ESPP@epa. gov. You must use the "Bulletin" valid for the month and state and county in which Enlist One or Enlist Duo are being applied. Contact your state pesticide regulatory agency if you have questions about the registration status of Enlist® herbicides in your area. ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. IT IS A VIOLATION OF FEDERAL AND STATE LAW TO USE ANY PESTICIDE PRODUCT OTHER THAN IN ACCORDANCE WITH ITS LABELING. ONLY USE FORMULATIONS THAT ARE SPECIFICALLY LABELED FOR SUCH USE IN THE STATE OF APPLICATION. USE OF PESTICIDE PRODUCTS, INCLUDING, WITHOUT LIMITATION, 2,4-D-CONTAINING PRODUCTS NOT AUTHORIZED FOR USE WITH ENLIST CORN AND SOYBEANS, MAY RESULT IN OFF-TARGET DAMAGE TO SENSITIVE CROPS/AREAS AND/OR SUSCEPTIBLE PLANTS, IN ADDITION TO CIVIL AND/OR CRIMINAL PENALTIES. Additional product-specific stewardship requirements for Enlist crops, including the Enlist Product Use Guide, can be found at www.traitstewardship.com. The transgenic soybean event in Enlist E3® soybeans is jointly developed and owned by Corteva Agriscience and M.S. Technologies, L.L.C. ™®Trademarks of Corteva Agriscience and its affiliated companies.

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. ™®Trademarks of Corteva Agriscience and its affiliated companies.

PowerCore® multi-event technology developed by Corteva Agriscience LLC and Monsanto. POWERCORE® is a registered trademark 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.

STS® herbicide tolerant trait

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.

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® and UltraCut® are registered trademarks of Forage Genetics International, LLC. HarvXtra® Alfalfa with Roundup Ready® Technology is enabled with Technology from The Samuel Roberts Noble Foundation, Inc.

Rating Scale: 1-5, 1 = Excellent, 5 = Poor

C4040GS

- Medium-tall, attractive plants with very good standability
- Glyphosate and STS® tolerance
- Good stress tolerance and strong double-crop option

C4559E

- Medium sized plants with good standability
- Attractive light tawny, brown line
- An excluder that is strong on frogeye and cercospora

NEW PRODUCT

C4957ES

- Medium-tall plants with moderate branching ability
- A strong standing line with STS® tolerance
- Excellent emergence rating and good stress tolerance

SOYBEAN TECHNOLOGY

Enlist E3 SOYBEANS
E = Enlist E3®

Enlist E3 SOYBEANS STS® herbicide tolerant trait
ES = Enlist E3® STS®

GLYPHOSATE TOLERANT
G = Glyphosate Tolerance

ENLIST® WEED CONTROL SYSTEM OVERVIEW

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

Enlist E3 SOYBEANS
POWERCORE Enlist

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

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

Enlist Duo® COLEX-D® technology HERBICIDE

- 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

Enlist One® COLEX-D® technology HERBICIDE

ALFALFA

Variety	Fall Dormancy	Winter Survival	Bacterial Wilt	Phytophthora Root Rot	Fusarium Wilt	Verticillium Wilt	Anthracnose	Aphanomyces Race 1	Aphanomyces Race 2	Highlight
Chemgro Touchstone EQ2	4.2	1.6	HR	HR	HR	HR	HR	HR	R	Second Generation Extended Quality and Yield Leader
Chemgro Gemstone II Blend	4.4	1.8	HR	HR	HR	HR	HR	HR	HR	Upgraded Gemstone II Family of Varieties-Maximum Yield
Chemgro C743 LH Brand	3.8	2.2	HR	HR	HR	HR	HR	HR	R	Potato Leaf Hopper Resistant Alfalfa
Chemgro Milestone II Brand	3.9	1.5	HR	HR	HR	HR	HR	HR	HR	A Branch Rooted, Workhorse Variety
Nexgrow 6441 HVXR	4.2	2.0	HR	HR	HR	HR	HR	HR	HR	Newest Generation of Low-Lignin Alfalfa with Roundup Ready® and ULTRACUT Technology
Nexgrow 6423R	4.0	1.0	HR	HR	HR	HR	HR	HR	HR	Top ULTRACUT® Alfalfa Disease Package Variety in the Roundup Ready® Lineup with Extreme Cold Tolerance & Winter Hardiness
Nexgrow 6453Q	4.4	1.6	HR	HR	HR	HR	HR	HR	HR	ULTRACUT® Conventional Alfalfa with Yield & Persistence
Chemgro C-722 Econo Blend	3.0	2.0	HR	HR	MR	MR	MR	MR	MR	A Blend of Good Quality Alfalfas- Unctd and No Fungicides on Seed at an Economy Price

Alfalfa 101 Management Tips: Good alfalfa establishment is based upon a few critical areas. (1) In the year prior to planting, pay attention to your corn or wheat herbicide program and check for rotation restrictions (plant back) to alfalfa. (2) 6 months prior to planting take soil samples and make adjustments for pH and other major nutrients at this time. (3) Control existing weeds prior to planting either with tillage or a non-residual burndown program. (4) Plant into a firm seedbed—Don't plant too deep– 1/4" is best. (5) If a nurse/companion crop (like Oats or Annual Ryegrass) is used at planting—keep the seeding rate on this species at 1/4—1/3 the normal seeding rate.

Chemgro/Nexgrow Replant Policy: (1) All replant situations must be reported to your Dealer/DSM within 60 days of planting- Spring or Fall. (2) Original seeding was planted at a minimum of 15# alfalfa/acre. (3) The qualifying replant occurs on 10 or more acres. (4) Replant units must be planted in the current crop year and within the same field (or reported in the fall and replanted in the spring). (5) Replants containing HVXTR or RR can only be used for same original brand. (6) Replant is available on first replant only. **(7) C-722 & Nextect RR blend are NOT Eligible.**

Fall Formancy: The lower the number, the later it breaks dormancy in the spring and sooner it goes dormant in the fall.
Winter Survival: 1 has the best winter hardiness, 6 is the least.
HR = High Resistance, **MR** = Moderate Resistance, **R** = Resistance

Chemgro Touchstone EQ2

- Fully Branch Rooted variety with excellent persistence.
- EQ = Extended Quality. Reduced Lignin and very high RFQ scores. Exceptionally high forage yield potential. DRI Score of 34/35.
- Excellent winter hardiness and solid disease resistance resulting in long lasting stands.
- Ideal for 4-5 cut systems - Pre-inoculated and fungicide treated.
- Extended forage quality makes it work in 3-4 cut environments as well.
- A top of the line-conventional, non-GMO variety.

Chemgro C743 LH Brand - *"Leaf Hopper Resistant"*

- Good control of PLH under moderate to heavy pressure.
- Good forage yield in delayed harvest intervals. Non-GMO characterized by hairy leaves which provide a physical barrier to PLH.
- Solid Disease Resistance Index of 30/30.
- Like all Chemgro Brand Alfalfa is uncoated.
- Only treated with an OMRI approved inoculant. No Fungicides. *Can be used in organic operations.*

Nexgrow 6441 HVXR - *with UltraCut® Technology*

- HarvXtra® Alfalfa is the industry's first genetically enhanced alfalfa technology with max reduced lignin.
- HarvXtra® Alfalfa gives growers the ability to better manage the yield-versus-quality trade-off. It offers more flexibility in cutting schedule to achieve improved forage quality or greater yield potential, when compared to conventional alfalfa at the same stage of maturity.
- HarvXtra® Alfalfa has on average 20% less lignin and 17-20% higher NDFd and RFQ than conventional alfalfa harvested at the same stage of maturity.
- HarvXtra® Alfalfa is stacked with Roundup Ready® Technology for unsurpassed weed control with excellent crop safety.
- Disease rating index: 39/40
- Third generation HVXR includes "UltraCut®" genetics.

Nexgrow 6453Q - *with UltraCut® Technology*

- Outstanding yield potential & agronomic performance under 4-5 cut systems.
- Superb winterhardiness with a 40/40 disease resistance index rating.
- 6453Q contains high-quality feed value levels highly desirable for dairy & cash hay producers.

Chemgro C-722 Econo Blend

- Fits medium rotations and 3-4 cut systems. Steady recovery after harvest.
- Non-GMO with an OMRI approved inoculant only. Not coated. You get 50 pounds of seed in the bag.

Chemgro Gemstone II Blend

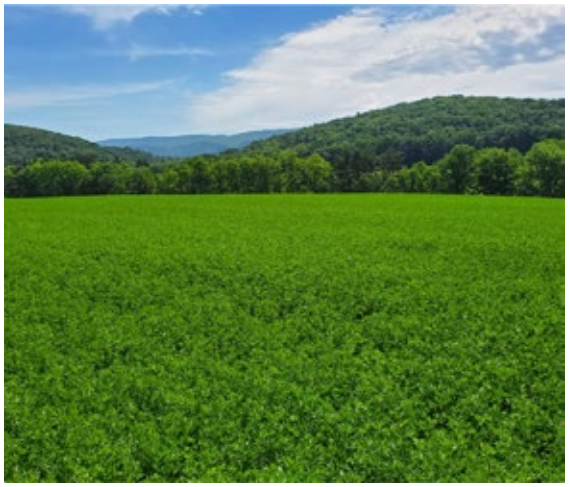
- Exceptional yield potential and Eastern adaptation.
- High resistance to multiple races of both Aphanomyces and Anthracnose provides protection in both establishment and on-going production.
- Result is increased yield potential, persistence and broad geographical adaptation.
- Winterhardiness with strong resistance to key diseases.

Chemgro Milestone II Brand

- Solid disease resistance package against "wet soil" pathogens.
- Excels and persists under "wetter soil" conditions that traditional alfalfas can't tolerate as well.
- A true "Workhorse" Alfalfa for Northeastern environments.

Nexgrow 6423R - *with UltraCut® Technology*

- Highly Resistant to multiple races of Aphanomyces for protection during establishment and early season cool and wet soil conditions.
- Highly Resistant to multiple races of Anthracnose for protection during warm and humid weather conditions. Roundup Ready® technology for unsurpassed weed control and excellent crop safety.
- Extremely winterhardy, providing superb cold tolerance.
- High multi-foliate expression for maximum quality. Top choice for heavy, compacted and saturated soils.
- Disease rating index: 40/40.



COOL SEASON GRASSES & SUMMER ANNUALS

Excellate SA Orchardgrass - *Very Late - Heading*

- A very-late maturing, long-living, winter-hardy **Summer Active** perennial that can be grown alone or in a mixture for hay or pasture.
- Very late maturity is great mixed with alfalfa.
- **Top of Class, Leaf Disease Resistance.**

Chemgro Premium Lat - *Orchardgrass*

- A variety or blend of industry leading top quality, later maturing varieties.
- Selected for yield, persist and disease resistance.
- Partners well with FD4 alfalfa. Broad adaptation to a wide range of climates.

Chemgro Premium Early Timothy

- A top quality, early maturing Timothy variety.
- Top yielding variety with excellent adaptation to pasture or forage use.

Quartermaster Perennial Ryegrass

- A medium-late heading hybrid perennial ryegrass. Very good winter hardiness.
- The high forage production of a 4n Tetraploid hybrid, with the persistence of a perennial.
- Late enough heading date to mix with alfalfa.

Forage Sorghums - *1 Cut System*

- All options are highly digestible, BMR gene forage sorghums that are **"Concep" treated for more pre-emergence herbicide options**.
- Versions are "Silage King" Std height - early maturity.
- Uses 30% less water than corn.

Grain Sorghums - *2 Types: Conventional and Double Team*

- Both are medium-early, bronze grain varieties.
- Widely adaptable from North to South.
- Adapts well to various soil types and conditions.
- Dependable yields under stressful conditions.
- Excellent disease ratings - both are "Concep" treated.
- Double Team™ varieties allow for unique post-emergence grass control using *First Act* herbicide.

ProFormance Brand - *Tall Fescue*

- Current variety is DLF's-Martin II, **endophyte free**.
- A widely adapted, multi-purpose, medium maturing variety, high DM yields.
- Good palatability, good heat tolerance compared to other cool season grasses.

Grasshancer 300 FL - *Festulolium*

- A blend of **3-4 year persistent**, 4n DLF Festulolium varieties. Quick establishing and high yielding.
- Ideal for maintaining pasture and hay fields with high DM production and high feed quality.
- Great for overseeding thinned out fields and as a companion with alfalfa in a 4 cut system.

Chemgro Premium Late Timothy

- Excellent medium-late maturing varieties with wide adaptability.
- Very high yield, palatability and winter hardiness.
- Mixes well with legumes such as clover and alfalfa.

ProForm Brand Festulolium - *Tall Fescue Background Type*

- Current varieties are DLF's-Fojtan or Mahulena.
- A 6n hybrid of perennial ryegrass and tall fescue.
- The digestive qualities of ryegrass coupled with the durability and stress tolerance of tall fescue.
- Excellent forage quality and long term persistence of 5+ years.
- Outperforms ryegrass during the hot summer.

NutriGro BMR Sudangrass - *PPS*

- Summer annual forage for balage, haylage, grazing, or even dry-hay production.
- Fast growing with multiple cut potential.
- Widely adapted BMR and (Photo Period Sensitive) variety won't go to head.
- Very fine stems to facilitate field drying for hay.
- Best bet for June-July seeding. Very leafy.

Sorghum/Sudangrass Hybrids - *Std and BMR varieties available*

- A high quality, high yielding, sorghum-sudan hybrid or pasture, hay silage, or green chop.
- Rapid recovery and heavy tillering for top-yield performance and quality; multi-cut potential.
- NOT "Concep" treated.
- Excellent feed option for livestock operations where additional summer forage is needed.

COOL SEASON GRASSES & SUMMER ANNUALS

Premium Grass Pasture Mix - *50#*

- An ideal mix for those desiring a grass only mix.
  - »20% Forage Ky Bluegrass
  - »20% Timothy
  - »20% Festulolium
  - »25% 4n Hybrid Ryegrass
  - »15% Early Orchardgrass

Deluxe Horse Pasture Mix - *50#*

- An endophyte free, grass only mix, ideal for horses.
  - »40% KY Bluegrass
  - »20% Timothy
  - »20% Endophyte Free Tall Fescue
  - »20% 4n Hybrid Ryegrass

Multi-Purpose Grass Hay Mix - *50#*

- A cost-effective mix designed for variable types of soil conditions and less management.
  - »40% Meadow Fescue
  - »40% Meadow Brome
  - »20% Early Orchardgrass

Standard Alfalfa Mixes - *50#*

- **333 Forage Mix:** 1/3 Alfalfa, 1/3 MRedClov, 1/3 Timothy
- **Alfalfa Mix #2:** 90% Alfalfa, 10% Late Timothy

Improved Brand Red Clover - *LS 9703*

- An improved, premium medium red clover adapted for use in the Northeast. Outyields VNS by 30+%. Persists longer than VNS too!
- A variety with high resistance to anthracnose, and powdery mildew. Tolerates lower pH than alfalfa.

Other Legume Also Available

- Birdsfoot Trefoil
- Alsike White Clover
- Ladino Clover
- Common Medium Red Clover - 2 cut system
- Hairy Vetch (N-producing cover crop)
- Winter and Forage Peas

Intensive Grazing Mix - *50#*

- A blend of species to provide grazing forage throughout the growing season.
  - »35% Tetraploid Hybrid Ryegrass
  - »35% Timothy
  - »10% Early Orchardgrass
  - »10% Red Clover
  - »10% Festulolium

Grasshancer 200 Mix - *Max Yield*

- A short term, 2 year grass mixture containing DLF Italian Ryegrasses & Festuloliums.
- Better than Italian Ryegrass alone.
- Extend the light of your alfalfa or pasture fields by overseeding to maximize quality and DM yield!

Blue Ribbon 50/50 Hay Mix - *50#*

- 50/50 Alfalfa/Perennial Grass mix for better soils and management. A real sale topper mix!
  - »50% LH Alfalfa
  - »26% Tall Fescue
  - »12% Early Timothy
  - »12% Late Orchardgrass

Cover Crop Products - *50#*

- Area-Till/Ripper Brand-Diakon Radish-economical.
- Crimson Clover - A nitrogen producing cover crop.
- Annual Ryegrass - 2n and 4n varieties available.

Custom Forage, Pasture, and Cover Crop Mixes

- Available by request for an additional mixing fee.
- We request order of Spring Custom Mixes by February 25.

Lawn and Turf Products

- Penn State II Turf Mix: A premium blend of Peren Ryegrass, Kentucky Blue, and Creeping Red Fescue
- Chemgro Premium Turf Ryegrass Blend

Other Grass Seeds Also Available

- Italian Ryegrass - stays vegetative in seeding year.
- Meadow Bromegrass and Meadow Fescue
- Encore Brand: Early Maturing Orchardgrass
- Climax Timothy
- Reed Canarygrass
- Smooth Bromegrass

Most pasture and hay mixes -Seed at 25lbs per acre. For other individual species seeding rate information, refer to the Forage Recommendations chart on the inside back cover.

WHEAT

	Product	Maturity	Region	Plant Height	Standability	Test Weight	Awn Type	Winter Hardiness	Leaf Rust	Powdery Mildew	Septoria Leaf Blotch	Stripe Rust	Stem Rust	Septoria Glume Blotch	Fusarium Head Blight (Scab)	Fhb1 Genetic Resistance	Spindle Streak Mosaic Virus	Barley Yellow Dwarf Virus
	Springfield	Early	Delmarva to Central PA	Medium-Tall	3.0	3.0	Awned	2.0	2.0	2.0	2.0	2.0	3.0	1.0	2.0	Yes	3.0	5.0
	Milton	Medium-Early	Delmarva to NY	Medium-Tall	3.0	2.0	Awned	1.0	3.5	1.5	1.5	2.0	1.5	1.0	2.0	Yes	2.0	1.5
NEW	**Freeland**	Medium	Delmarva to NY	Medium	2.0	1.7	Awned	2.0	4.0	1.7	1.7	4.0	-	1.2	2.0	Yes	2.5	4.0
	Wakefield	Medium	Delmarva to NY	Medium	1.5	1.5	Awned	1.5	4.0	3.0	2.5	2.5	2.5	2.0	2.5	Yes	2.0	1.5
	Fairland	Medium	Delmarva to NY	Medium	1.0	1.5	Awned	2.0	2.0	2.0	2.0	2.0	2.0	3.0	3.0	Yes	3.0	4.0
	Felton	Medium +	PA to NY	Medium	1.0	1.0	Smooth	2.0	1.0	3.0	2.0	1.0	-	-	2.0	No	3.0	3.0

NOTES

Rating Scale: 1-5, 1 = Excellent, 5 = Poor

Springfield

- An early option that provides the ability for early harvest and early double-crop planting
- Brings increased yield over Donegal and genetic scab resistance vs. Bethel
- Medium + plants with strong straw yields and good test weight
- Average test weight with high yield potential for the maturity
- The line to fit the early harvest, double-crop acre

Freeland

NEW PRODUCT

- Elite yield levels are within reach with this new racehorse line
- Strong tillering variety with large heads and medium plant height
- Weak on some key leaf diseases so fungicide is high recommendation
- Fits the higher managed, higher fertility acres and can be pushed for the upper yield levels
- X601 in 2024 Chemgro testing

Fairland

- A medium maturing wheat with medium plant height
- Excellent standability and test weight with average disease package
- Strong genetics with a high level of elite yield performance
- FHB1 head scab resistance with average BYDV resistance
- Shines under high management at higher than average yield levels

Milton

- The complete package: scab resistance, test weight, yield, and agronomics
- Solid standability with very strong test weight
- Good overall disease package with top yield potential
- FHB1 head scab resistance with good BYDV resistance
- A strong, consistent line across acres and soil variability and fertility

Wakefield

- A heavy test weight line with top yield potential
- Good standability in high yield environments
- Strong performance from south to north, fitting right on the Fairland acre
- Moves throughout the region on high and average yielding acres
- 2 years of consistent performance across the mid-Atlantic region

Felton

- Medium plant height with top standability and plant health
- A smooth, later maturing line with very high test weight grain
- Strong resistance to leaf and stem rust, extremely healthy variety
- Consistent strong performance in testing over multiple seasons

NOTES

SILAGE INOCULANTS & FORAGE PRESERVATIVES

"Economically protecting your forage crop investment"

Most producers see a return of $10-$15 in improved RFV (Relative Feed Value) per $1 spent on silage/haylage inoculant. Chemgro has a complete line-up of high quality, dry and water-soluble inoculants at very economical prices per treated ton compared to the "Big Brand Name" companies out there. Ask your Chemgro Rep for more info and pricing. Pre-order with your seed this fall for maximum discounts!!!

Chemgro SI2020 Dry & WS - *(Water Soluble) Silage Inoculants*

- **Chemgro SI2020 dry & WS** has been enhanced to speed silage fermentation with faster lactic acid production, and lowering the pH of forage. Faster fermentation means higher RFV at feed out
- Properly fermented & stabilized forage results in improved feeding value and animal performance—the proof is in the forage test and in the bulk tank
- 50 lb. dry formula treats 100 tons: significantly lower cost/treated ton vs. competition
- WS formulation treats 100 Tons of Corn Silage: WS formulation contains lactobacillus plantarum, pediococcus acidilactici, streptococcus faecium, and pediococcus pentosaceus
- WS formulation includes a 5th strain (lactobacillus casei) to further enhance fermentation

SI2000BC - *"Big Chopper" WS Silage Inoculant*

- A more, concentrated lactic acid producing silage inoculant for large volume applications with Big Choppers and other large commercial harvesting equipment. ***Major savings on cost per ton!!***
- SI2000BC = 250 gram pack treats 250 tons of forage

Chemgro Prop Plus Silage Inoculant Dry or WS100

- **Chemgro Prop Plus** is a formulated, superior product to be used on HMC (high moisture corn) and haylage
- **Prop Plus Dry** and **Prop Plus WS** contain two specific, strains of bacteria to ensile your crop
- Propionic acid retards yeast and molds that cause spoilage, promotes lactic acid production for thorough fermentation, and keeps the pH low to keep "feed out" nutrition levels high
- **Prop Plus** provides improved DM feed value recovery and improved Bunk Life through feedout
- 50 lb. bag dry or WS100 pouch treats up to 100 tons of forage

Early Sile Plus and Early Sile Advance CS from Volac

- **Early Sile Plus** is an enhanced silage inoculant product for producers looking to maximize their forage
- It contains 3 strains of lactic acide producing bacterial for rapid fermentation from the start
- It also contains a proprietary acetic acid producing bacteria L. brevis for extra protection against aerobic spoilage organisms at the storage unit face and feed bunk. L. brevis provides superior feed out stability over time vs L. Buchneri
- It also includes additional enzymes to enhance fermentation across all silage crops
- **Early Sile Advance CS** provides additional features for the producer who wants to get the most out of their expensive forages by providing:
  - » Enzyme combination designed specifically for corn and cereal forages
  - » These proprietary enzymes actually work to improve the NDF utilization of your forages
  - » Personalized on-farm assistance and decision making support is available for these new products
- Available in 50 and 200 Treated Ton jars via Special Order - preferably Pre-Season.

volac

Applicators are available for hay preservative and silage inoculants thru a 3rd party partner. Please contact your local Chemgro Seeds dealer or the Chemgro office and we will help you find an applicator that best suits your situation.

HAY PRESERVATIVES/SEED INOCS. & TREATMENTS/FOLIAR

HayFresh - *Dry Hay, HMSC & TMR Preservative*

- HayFresh contains a special blend of buffered acids and surfactants that provides maximum protection for high moisture Hay, HMSC (High Moisture Shelled Corn) & TMR (Total Mixed Ration)
- It aids in baling and storing hay at up to 30% moisture
- HayFresh can be an aid to any hay management system: small square, large square, or large round bales. See product label for HMSC and TMR usage rates.
- Buffered propionic acid with a pH of 5.8-6.0 is safe to the touch & Non-Hazardous for transport purposes.
- HayFresh contains a min of 68% Propionic Acid and includes additional special acids, additives and surfactants.
- ***Available in: 15 gal drum (130 lb); 55 gallon barrel (450 lb) and 275 gal. (2350 lb) Totes***

Seed Treatments - *Soybean Inoculants, Legume Inoculants, & Root Stimulants*

- ***Soybean Inoculants***
  - » **TerraMax Dry** - sizes available to treat 10 and 40 units
  - » Liquid Soybean Inoculants - 3.1 liters treats 50 units, 10 liters treats 150 units
  - » **Rhizolizer Prime** - special formulated, dry inoculant with proprietary, crop specific Trichoderma and bacillus in a graphite and talc carrier. Ideal for vacuum, air planters, and drills. Sizes available to treat 20 and 50 units of soybean

- ***Other Legume Inoculants Available***
  - » Alfalfa
  - » Clover
  - » Trefoil

- **Corn, Cereals and Grass—Root Stimulants**
  - » Proprietary Trichoderma strains form a symbiotic relationship with the plant encouraging more root mass
  - » A larger root mass = more resilient plant –to handle abiotic stresses such as drought and wet conditions
  - » Rhizolizer Duo (Planter Box) for Corn - 2 sizes available—12 units or 24

GUARANTEED ANALYSIS	
CONTAINS NONPLANT FOOD INGREDIENTS	
Soil Amending, Active Ingredients:	
Microbial Soil Inoculant	**1.0%**
Trichoderma harzianum	**$7x10^7$ CFU/g**
Bacillus amyloliquefaciens	**$1x10^9$ CFU/g**
Total Other Ingredients	**99.0%**

Rhizolizer® Duo BA, Locus AG and CarbonNOW® logos are trademarks of Locus Agricultural Solutions

Manufactured by:
Locus Agricultural Solutions
30600 Aurora Rd., Ste 180, Solon, OH 44139
Reformulation is prohibited

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GroPak A.I. - *Planter Box Treatment for All Crops-Give your seedlings a boost!*

GroPak A.I. is AgXplore's "**All in** planter box treatment". GroPak A.I. combines key micronutrients, a biological package, and talc, to promote better seed flowability through the planter and to promote early season plant vigor.

How does GroPak A.I. work?

- nCeption provides carbon sources that increase nutrient absorption
- NTake maximizes nutrient mobility to critical plant systems
- Biological package promotes root nodulation and supports nutrient uptake and utilization

Why Use Gropak A.I.?

- GroPak A.I. provides micronutrients and biologicals right on the seed to aid in germination and emergence
- Formulation will improve seed flow in planter/drill, reducing the need for traditional talc/graphite products

Packaged in both 6# (treats approx. 24 to 30 units of seed) and 12# (treats approx.48-60 units of seed.

GRO PAK A.I.

BASIC FORAGE RECOMMENDATIONS AND COMPARISONS OF VARIOUS SPECIES

*Note: All seeding rates are based upon #PLS = # of Pure Live Seed per acre. PLS is calculated by Purity % x Germination %. This information can be found on the seed tag. Increase seeding rates by 10% in No-Till.

Class/Species	Persistence	Best Use	Relative Maturity	Straight Seeding Rate	When Used in Mixes	Seeding Depth	Residual Height	Spring Productivity	Summer Productivity	Fall Productivity	Wetter Soils	Drier Soils	Winter Hardiness	Heat Tolerance	Overseed or Thicken Alfalfa	Overseed or Thicken Grass	Grazing Performance: Palatability	Traffic Tolerance
Perennial Grasses - Seeding period is normally April through May. Avoid hot, dry periods in summer. Fall seedings are generally mid-August through early October.																		
Bluegrass, KY Forage	6+ Yrs	G	Early	10-15 #/Ac	4-8 #/Ac	Up to 1/4"	2"	4	2	3	4	2	5	2	1	1	3	5
Bromegrass, Meadow	6+ Yrs	G, WH, H	Early	25-35 #	5 - 6 #	1/4 to 1/2"	3-4"	3	4	4	2	4	5	4	1	3	5	4
Bromegrass, Smooth	6+ Yrs	H	Late	25-35 #	4 - 6 #	1/4 to 1/2"	3-4"	5	2	3	2	4	5	2	1	1	3	5
Fescue, Meadow	3+	G, WH, H	Medium	20-30 #	7- 10 #	1/8 to 3/8"	3-4"	4	3	4	4	3	5	3	2	2	4	5
Fescue, Tall-soft leaf var.	3+	G, WH, H	Variety Dependent	20-40 #	8 - 10 #	1/8 to 3/8"	3-4"	5	4	5	4	4	4	5	4	4	3	5
Festulolium, hybrid	1-6 Yrs	G, WH	Variety Dependent	25-45 #	8 - 20 #	1/4 to 1/2"	3-4"	5	3	4	4	2	3	3	5	5	5	3
Orchardgrass	3-6 Yrs	G, WH, H	Variety Dependent	10 - 14 #	2- 5 #	Up to 1/4"	4"	5	3	3	2	4	4	4	4	5	3	3
Reed Canarygrass	6+ Yrs	WH, H	Medium	12-18 #	6- 8 #	1/8 to 1/4"	2-4"	5	4	2	5	5	5	3	1	1	2	5
Ryegrass, Intermed.	2-3 Yrs	G, WH	Variety Dependent	30-50 #	10 - 15 #	1/8 to 3/8"	2-3"	5	1	4	4	1	3	2	3	5	5	3
Ryegrass, Perennial	2 - 6 Yrs	G, WH	Variety Dependent	30-50 #	10- 15 #	1/8 to 3/8"	2-3"	5	1	4	4	1	3	2	3	5	5	3
Timothy	1 - 6 Yrs	WH, H	Late	8 - 12 #	3 - 6 #	Up to 1/4"	3"	5	1	2	4	1	5	2	2	1	5	3
Perennial Legumes - Seeding period is normally mid-March through May. Avoid hot, dry periods in summer. Fall seedings are generally mid-August through September.																		
Alfalfa	3 - 5 Yrs	WH, H	Med	14-22 #/Ac	8 -12 #	Up to 1/4"	3"	5	5	4	2	5	3	5	1	1	3	2
Clover, Red	2-3 Yrs	G, WH	Med	12-20 #	5-10 #	Up to 1/4"	3"	5	3	4	3	3	5	4	5	5	4	3
Clover, White	3 - 5 Yrs	G, WH	Med	NR	2-4 #	Up to 1/4"	3"	4	3	3	4	3	4	4	3	5	5	5

Key: G = Grazing, WH = Wet Hay, either as baleage or haylage, H = Dry Hay, S = Direct Cut Silage, **Rating Scale:** 5 = Best or Highest, 1 = Worse or Lowest, N/A = Not Applicable, NR = Not Rated or Recommended

Checking Populations

Row Width	*Length Equal to 1/1,000 Acre*
7"	74'8"
10"	52'3"
15"	34'10"
20"	26'2"
30"	17'5"
36"	14'6"
38"	13'9"
40"	13'1"

Yield Estimate Formula

Corn

Ears per 1/1000 of an acre **X** *Number of rows (width)* **X** *Number of kernels per row (length)* **X** *.01116* **=** *Estimate in Bushels per acre at 15.5%*

Soybeans

Average number of pods per plant **X** *Plants per acre* **=** *Pods per acre* **X** *2.5 beans per pod* ÷ *2,500 beans per pound* **=** *Pounds per acre* ÷ *60 pounds* **=** *Bushels per acre*

BASIC FORAGE RECOMMENDATIONS AND COMPARISONS OF VARIOUS SPECIES

*Note: All seeding rates are based upon #PLS = # of Pure Live Seed per acre. PLS is calculated by Purity % x Germination %. This information can be found on the seed tag. Increase seeding rates by 10% in No-Till.

Class/Species	Seeding Period	Best Use	Normal Harvest Period	Straight Seeding Rate	Seed Box	Seeding Depth	Residual Height	Spring Productivity	Summer Productivity	Fall Productivity	Wetter Soils	Drier Soils	Winter Hardiness	Heat Tolerance	Overseed or Thicken Alfalfa	Overseed or Thicken Grass	Grazing Performance: Palatability	Traffic Tolerance
Winter Annuals																		
Cereal Rye	Fall	G, WH	Early Sm Grn	170 # /Ac	Large	1 to 1.5 "	2 to 4"	5	N/A	3	4	3	5	N/A	1	1	3	3
Annual Ryegrass	Late Summer	G, WH	Earlier than Wheat	30 to 50 #	Large	1/8 to 3/8"	3 to 4"	5	1	4	4	3	3	N/A	3	4	5	3
Spelt, Oberkulmer	Wheat Dates	G, WH, H	Later than Wheat	125 #	Large	1 to 1.5 "	2 to 4"	5	N/A	3	3	3	4	N/A	5	3	4	3
Triticale, Fridge	Wheat Dates	G, WH	Earlier than Wheat	125 #	Large	1 to 1.5 "	2 to 4"	5	N/A	2	4	3	4	N/A	3	3	4	3
Triticale + ARG	Barley & Early	G, WH	Earlier than Wheat	80 to 100 #	Large	1/2 to 3/4"	3 to 4"	5	1	3	4	3	4	N/A	3	4	5	3
Crimson Clover	Late Summer	G, WH	Earlier than Wheat	20 #	Large	1/8 to 3/8"	N/A	5	N/A	3	3	3	3	N/A	3	1	5	NR
Hairy Vetch	Up to Barley	G, WH	Later than Wheat	20 - 30 #	Large	1/4 to 3/4"	N/A	5	N/A	1	3	3	4	N/A	2	1	NR	NR
Winter Peas	Up to Early Wheat	WH	Earlier than Wheat	35 to 50 #	Large	3/4 to 1"	N/A	5	N/A	1	3	3	4	N/A	1	1	NR	NR
Summer Annuals																		
BMR Sudangrass	Soil > 60 deg	G, WH, H	35 to 50 Days	30 to 40 #	Drill - Large	1/2 to 3/4"	5 to 6"	3	5	2	1	5	N/A	5	5	1	5	3
BMR Sorgh/Sudan	Soil > 60 deg	G, WH	35 to 50 Days	50 to 60 #	Drill - Large	3/4 to 1.5"	5 to 6"	3	5	2	1	5	N/A	5	5	1	5	2
BMR Forage Sorghum	Soil > 60 deg	S, WH	90 to110 Days	80 - 100 K/Ac	Drill or Planter	1 to 1.5 "	N/A	2	5	2	1	5	N/A	5	2	1	3	N/A
Grain Sorghum	Soil > 60 deg	N/A	70 to 110 Days	80 - 100 K/Ac	Drill or Planter	1.5 to 2 "	N/A	2	5	1	1	5	N/A	5	1	1	1	1
Corn, Vegetative	Soil > 50 deg	G, WH	50 to 60 Days	40 K/Ac	Planter	1.5 to 2.5"	N/A	3	5	N/A	3	3	N/A	4	N/A	N/A	5	N/A
Corn, Silage Maturity	Soil > 50 deg	S	80 to 110 Days	25 to 40 K/Ac	Planter	1.5 to 2.5"	N/A	N/A	5	N/A	3	3	N/A	4	N/A	N/A	N/A	N/A
Millet	Soil > 65 deg	G, WH	35 to 45 Days	10 to 20 #	Large	1/2 to 3/4"	4 to 6"	1	4	2	3	4	N/A	5	2	1	4	3
Teff	Soil > 60 deg	WH, H	45 to 55 Days	4 to 6 #	Small	0 to 1/4"	4 to 5"	2	5	4	4	5	N/A	5	4	N/A	4	4
Other Annuals																		
Brassicas-Turnip & Hybrid	Early Spring thru Summer	G	30 to 70 Days	3 to 5 lbs/Ac	Small	1/8 to 3/8"	3 to 4"	4	4	5	1	3	N/A	4	1	1	3	3
Oats, Forage types	Early Spring thru Summer	G, WH	55 to 65 Days	80 to 100 #	Large	1 to 1.5 "	3 to 4"	5	3	4	3	3	N/A	3	3	2	5	3
Aera-Till Radish	July-mid Sept	G, Cover	N/A	5 - 10 #	3-6 #	1/4 to 1/2"	4"	NR	4	4	3	3	N/A	4	1	1	3	3

Key: G = Grazing, WH = Wet Hay, either as baleage or haylage, H = Dry Hay, S = Direct Cut Silage
Rating Scale: 5 = Best or Highest, 1 = Worse or Lowest, N/A = Not Applicable, NR = Not Rated or Recommended

Penn State II Turf Mix: A Blend of Premium Turf varieties of Perennial Ryegrass, Kentucky Bluegrass and Creeping Red Fescue
NEW LAWNS are 6 - 8# per 1,000 sq. ft and Over-seed existing lawns at 4-6# per 1,000 sq. ft.

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