Excellent planting accuracy and stands can be achieved with all seed sizes when using appropriate planter adjustments and calibration. These plantability guidelines are designed to provide management tips to help growers achieve maximum planter performance and precise planting accuracy with seed of all sizes.

Consult with your Brevant seeds retailer for expert local advice on planting populations.

HYBRID PLANTABILITY WITH LUMIGEN® SEED TREATMENTS

LumiGEN^{*} seed treatments provide Brevant^{*} brand seed corn premium protection against early-season diseases and insects.



BREVANT

seeds

LumiGEN® seed treatments utilize polymer coatings for improved seed flow and plantability while reducing dust-off. Many planter manufacturers recommend applying talc or graphite to the seed to improve plantability. The polymers used as part of LumiGEN® seed treatments are not intended as a substitute to planter aids.

Excellent planting accuracy and plant stand establishment can be achieved with all seed sizes and shapes, regardless of seed treatment recipe and environmental conditions, through careful planter aid usage and planter adjustments. More details can be found on Corteva Agriscience's Planting Accuracy Guidelines for Corn.







BULK PLANTER SYSTEMS

Delivery of seed from center-fill hopper to meter may be impacted by several factors. These include planting time, atmospheric environment, use of planter lubricant, ground speed, level of treatment, and seed size. The liberal use of talc, graphite, or a talc-graphite blend, specific by planter type, is critical. Thorough mixing of these lubricants in seed generally produces the best results. High population settings, combined with high ground speed may create challenges. Conversely, low population settings and/or low ground speed may create another set of challenges for certain seed types and/or treatments due to infrequent movement of the seed in the inductor or mini-hopper. If meters are "starving" for seed, reduced ground speed may provide a solution. The proper fan speed or pressure in the bulk delivery system is an adjustment that can be made to enhance seed delivery. This varies by planter manufacturer. Also, depending on the planter manufacturer, other attachments/adjustments may be available to enhance seed delivery. Consult the planter operator's manual for proper setting and any troubleshooting guides. Larger seed, especially with highrate treatment, can be delivered to the meter and planted accurately if consideration is given to the points above.

SEED LUBRICANT GUIDELINES BY PLANTER MANUFACTURER¹

KINZE MANUFACTURING AND JOHN DEERE FINGER-TYPE PLANTERS

When planting treated seed, use your planter manufacturer's recommended amounts of dry powdered graphite. To ensure good seed coverage, add graphite at several levels as the hopper is filled, rather than only on the top.

JOHN DEERE VACUUM-TYPE INCLUDING PROMAX 40 FLAT DISK

Talc lubricant is required for optimum performance of the vacuum meter and CCS system (if equipped). Add talc at the rate of 2.5 ounces per 80,000-kernel unit of seed or 11 cups per 35 bushels or 16 cups per 50-bushel fill. Adjust these rates as necessary so all

seeds become coated with talc, while avoiding an accumulation of talc in the bottom of the tank or hopper. Double the talc recommendation when planting small seed, large seed, seeds with heavy treatment, or in humid planting conditions. If seed treatment is building up on the disc, use additional talc. Add talc throughout the box while filling, not just on top.

JOHN DEERE EXACTEMERGE PLANTER

Talc –graphite lubricant is required for optimum performance of the vacuum meter and CCS system (if equipped). To obtain consistent seed release from the seed bowl and improve spacing accuracy, properly lubricate the seed.

PRECISION PLANTING ESET® OR VSET®

Use 1/4 cup of the company's eFlow seed lubricant (or an 80% talc/20% graphite mix) per 80,000-kernel bag. Heavily treated seed may require a higher rate.

KINZE VACUUM PLANTER

Manufacturer recommends mixing 1 Tbsp of powdered graphite into each hopper-fill of seed. Mix thoroughly so all kernels are coated. Adjust graphite rate as needed. Planting in high humidity conditions may require use of talc as a drying agent.

KINZE AIR SEED DELIVERY (ASD) SYSTEM

Powdered graphite should be added with the seed each time the bulk seed hopper is filled. Use 1½ - 2 pounds per 50 units of seed. Graphite should be added in layers as the bulk seed hoppers are filled. Use of powdered graphite will prolong the life of the seed meter components, reduce buildup of seed treatment on components in the meter and improve seed spacing.

WHITE PLANTERS

When using insecticide treated seed the manufacturer recommends mixing 1/3 cup of talc per bushel hopper fill, or one gallon per 45-bushel tank when filling CFS. Spread the talc on the seed in layers as the central hoppers are filled. Seed treatments may also affect seed monitor performance and require periodic cleaning of the seed disc.

¹ Refer to individual planter manufacturer owners' manual for complete recommendations.





CASE IH 1200 SERIES - ADVANCED SEED METER (ASM)

Graphite is recommended for lubrication. Talc is not recommended as a sole lubricant for the Advanced Seed Meter, though a 50/50 mix of talc/graphite may be used to improve flow in bulk delivery of seed. Do NOT exceed 50% talc with the ASM seed meter in order to avoid buildup on meter components.

On-row Hopper: Case IH recommends 1/8 cup of seed flow lubricant per row- unit hopper.

Bulk Fill System: Case IH recommends 1/8 cup of seed flow lubricant per two units of seed as a starting point for most seed sizes and treatments. Some seed sizes and treatments may require additional lubrication to flow into the delivery system in high humidity conditions. In such situations, the amount of seed flow lubricant applied can be increased to as much as 4X the initial recommended amount.

CASE IH 2100 SERIES - VSET SEED METER

Talc is not recommended as a sole lubricant on 2100 series planters. A 50-50 talc/graphite blend available through CaseIH dealers is the recommended product for seed lubrication, although mixes containing 80% talc / 20% graphite may be used. In conditions of high humidity, additional seed flow lubricant may be necessary. On-row Hopper: Case IH recommends 1/8 cup of seed flow lubricant per row-unit hopper. Bulk Fill System: Case IH recommends 1/8 cup of seed flow lubricant per two units of seed as a starting point for most seed sizes and treatments. Some Seed sizes and treatments may require additional lubrication to flow into the delivery system in high humidity conditions. In such situations, increasing the amount of graphite or graphite/talc mix is recommended to as much as 4X the initial recommended amount.

MONOSEM PRECISION PLANTERS

No seed lubricant is required for row-unit box planters. Talc is recommended for all central-fill planters. Use 1/3 to 1/2 cups talc per bushel. Double the usage rate for high humidity or heavy seed treatments.

PLANTER AND METER MAINTENANCE

Planter and meter maintenance are critical to seed singulation, spacing accuracy and planting the targeted population. Even spacing reduces competition between plants and maximizes ear count. Extensive research conducted by Corteva has consistently shown that with other variables remaining constant, improved plant spacing produces a yield increase. It is recommended that meters be inspected and maintained prior to season to allow for optimal performance.







OPTIMIZING PERFORMANCE OF JOHN DEERE VACUUM PLANTERS

- The manufacturer's recommended maximum operating speed is 38 disk RPMs.
- This planter uses vacuum rather than air pressure to hold the seed against the disks.
- Three disks are available: regular, small, and ProMAX 40. The standard corn disk (A50617) will accurately plant seed sizes up to approximately 2,000 seeds per pound. The small disk (A43215) is designed for small seed – usually greater than 2,000 seeds per pound. The ProMAX 40 Flat disk (A52391) is designed to plant all seed sizes.
- The ProMAX 40 disk may under-populate if vacuum is too low. Set at higher vacuum levels, the ProMAX 40 disk is much more tolerant because the doubles eliminator prevents over-population.
- Vacuum levels taken from charts are a starting point. However, high- rate seed treatment, uneven ground conditions and/or faster ground speeds require higher levels of vacuum than indicated. Perform a field check and adjust level to obtain proper population.
- John Deere also recommends adding talc to improve seed singulation and row spacing of all treated seed.

Recommended Vacuum Setting for John Deere ExactEmerge™ (A92777)					
LumiGEN® seed	treatment pre	mium package(🖡	acuum Listed in	Inches)	
Size Range (seeds/Lb)	F1 R1		F2	R2	
2900 - 2999					
2800 - 2899					
2700 - 2799					
2600 - 2699	16				
2500 - 2599	16				
2400 - 2499	16				
2300 - 2399	18	20			
2200 - 2299	18	20			
2100 - 2199	18	20			
2000 - 2099	20	20	20		
1900 - 1999	20	20	20		
1800 - 1899	20	22	20		
1700 - 1799	22	22	22		
1600 - 1699	22	23	22	24	
1500 - 1599	22	23	22	24	
1400 - 1499		23	23	24	
1300 - 1399			24	24	
1200 - 1299				24	
1100 - 1199					
1000 - 1099					
900 - 999					

LumiGEN® seed treatment premium package (Vacuum Listed in Inches)					
Size Range (seeds/Lb)	F1	R1	F2	R2	
2900 - 2999					
2800 - 2899					
2700 - 2799					
2600 - 2699	6				
2500 - 2599	6				
2400 - 2499	6				
2300 - 2399	8	14			
2200 - 2299	8	14			
2100 - 2199	8	14			
2000 - 2099	8	14	10		
1900 - 1999	8	14	10		
1800 - 1899	8	14	10		
1700 - 1799	10	14	10		
1600 - 1699	10	14	10	14	
1500 - 1599	10	14	10	14	
1400 - 1499		14	12	14	
1300 - 1399			14	14	
1200 - 1299				14	
1100 - 1199					
1000 - 1099					
900 - 999					

Recommened Vaccuum Setting for John Deere - ProMax 40 Flat Disk (A52391) LumiGEN® seed treatment premium package (Vacuum Listed in Inches)				
2900 - 2999				
2800 - 2899				
2700 - 2799				
2600 - 2699	12			
2500 - 2599	12			
2400 - 2499	14			
2300 - 2399	14	16		
2200 - 2299	14	16		
2100 - 2199	14	16		
2000 - 2099	16	16	14	
1900 - 1999	16	16	14	
1800 - 1899	16	16	14	
1700 - 1799	16	16	16	
1600 - 1699	16	16	16	16
1500 - 1599	16	16	16	18
1400 - 1499		18	16	18
1300 - 1399			16	18
1200 - 1299				18
1100 - 1199				
1000 - 1099				
900 - 999				

LumiGEN® seed t	reatment prer	nium package (🖡	acuum Listed in	Inches)
Size Range (seeds/Lb)	F1	R1	F2	R2
2900 - 3099				
2800 - 2999				
2700 - 2899				
2600 - 2799				
2500 - 2699	8			
2400 - 2599	8			
2300 - 2499	10			
2200 - 2399	10	14		
2100 - 2299	10	14		
2000 - 2199	12	14		
1900 - 2099	12	14	14	
1800 - 1999	12	14	14	
1700 - 1899	12	14	14	
1600 - 1799	14	14	14	
1500 - 1699	14	14	14	14
1400 - 1599	14	14	14	14
1300 - 1499		14	14	14
1200 - 1399			14	14
1100 - 1299				14
1000 - 1199				
900 - 1099				





TIPS WHEN USING PRECISION PLANTING VSET® AND ESET®

- One disk plants all seed sizes.
- Most seed plants at 15" to 22" of vacuum.
- Very large seed may benefit from additional vacuum.
- Precision Planting recommends use of their eFlow lubricant, a mix of talc and graphite.

Recommended V LumiGEN [®] seed tre	atment premiu	m package (V	acuum Listea	in Inche
Size Range (seeds/Lb)	F1	R1	F2	R2
2900 - 2999				
2800 - 2899				
2700 - 2799				
2600 - 2699	15			
2500 - 2599	15			
2400 - 2499	15			
2300 - 2399	15	18		
2200 - 2299	15	18		
2100 - 2199	15	18		
2000 - 2099	15	18	18	
1900 - 1999	18	18	18	
1800 - 1899	18	18	18	
1700 - 1799	18	18	18	
1600 - 1699	18	18	18	18
1500 - 1599	18	18	18	22
1400 - 1499		18	18	22
1300 - 1399			18	22
1200 - 1299				22
1100 - 1199				
1000 - 1099				
900 - 999				

OPTIMIZING PERFORMANCE OF KINZE VACUUM PLANTER

True Rate® meter: Seed Disc Part No. B0678

c	Crop	**Seed Disc Kit	Seed Disc Part No.	Ejector Wheel (Color)	Cells	Seed Size Range	Singulator Zone Setting	Vacuum Setting Inches of Water (kPa)	Lubricant
	Corn Large Sweet Corn	G9040X	B0678 (Light Blue)	1 row 5 punches (Light Blue)	40	35-70 lbs/80k (2500-5000 seeds/kg)	2	18-20 (4.5-5.0)	Graphite* Talc* Bayer Fluency (if mandated)

- Corn disk will plant seed sizes in the range of 35 to 70 lbs per 80,000 kernel bag (2,286 to 1,143 seeds per lb.)
- For most kernel sizes, it is recommended to set vacuum at 18".
 Singulator settings for corn should be set on 2 with fine adjustments for improved singulation.
- For larger, heavier seed, set at 20" for best plantability.
 Incrementally increase the vacuum level to improve accuracy as needed on larger, more heavily treated seed.

			n Planter Disk (B06 cuum Listed in Inch	
Size Range (seeds/Lb)	F1	R1	F2	R2
2900 - 2999				
2800 - 2899				
2700 - 2799				
2600 - 2699	14			
2500 - 2599	14			
2400 - 2499	14			
2300 - 2399	16	16		
2200 - 2299	18	18		
2100 - 2199	18	18		
2000 - 2099	18	18	18	
1900 - 1999	18	18	18	
1800 - 1899	18	18	18	
1700 - 1799	18	18	18	
1600 - 1699	18	18	18	18
1500 - 1599	18	18	18	18
1400 - 1499		18	18	18
1300 - 1399			18	18
1200 - 1299				18
1100 - 1199				
1000 - 1099				
900 - 999				





PRECISION PLANTING FINGER-TYPE PRECISION METER

Corteva has not tested plantability of the precision meter from Precision Planting because it is assumed these units will be custom calibrated by a trained MeterMax[®] technician. If all seed being planted is large (R2), Precision Planting makes shims (part number 34056) that may be placed under the cam to increase the opening height of the fingers. The standard finger configuration will do an adequate job on large seeds, and is preferred if planting a variety of small, medium, and large seed sizes.

OPTIMIZING PERFORMANCE OF WHITE PLANTERS

- The manufacturer recommends a disk speed of 32 RPMs with suggested disk and air pressure. Adjustments to air pressure can be made depending upon the disk used and the kernel size being planted. Smaller seeds usually require less air pressure.
- Air pressure can be adjusted from 1.0 to 5.0 inches of water. The percentage of skips or doubles is managed with increases or decreases in air pressure.
- The manufacturer does not recommend the use of talc with the seed unless seed coatings interfere with metering.
- A disk (700736528) (Catalog #6001409) is now available for planting flat seed sizes, 1200 to 2200 seeds/lb.

			ic Planters (Small D	
			ssure Listed in Ound	
Size Range (seeds/Lb)	F1	R1	F2	R2
2900 - 2999				
2800 - 2899				
2700 - 2799				
2600 - 2699	1.5			
2500 - 2599	1.5			
2400 - 2499	1.5			
2300 - 2399	2.0	2.0		
2200 - 2299	2.0	2.0		
2100 - 2199	2.0	2.0		
2000 - 2099	2.0	2.0	2.0	
1900 - 1999	2.0	2.0	2.0	
1800 - 1899	2.0	2.0	2.0	
1700 - 1799	2.0	2.0	2.0	
1600 - 1699	2.5	2.0	2.0	2.0
1500 - 1599	2.5	2.5	2.5	2.0
1400 - 1499		2.5	2.5	2.0
1300 - 1399			2.5	2.0
1200 - 1299				2.5
1100 - 1199				
1000 - 1099				
900 - 999				





OPTIMIZING PERFORMANCE OF KINZE OR JOHN DEERE FINGER PLANTERS

- The manufacturer's recommended maximum operating speed is 75 finger RPMs. This corresponds to the maximum suggested ground speed for most sprocket combinations. Ground speed will vary depending on the sprocket combination being used.
- Proper finger and spring tension is important.
- John Deere factory specifications are that fingers should be set at 23 to 25-inch lbs. Consult owner's manual for adjustment procedure.
- Kinze factory specifications are 22 to 25-inch lbs. of rolling torque. Consult owner's manual for adjustment procedure.
- Worn parts should be replaced. Worn brushes can cause up to 15% overplant, especially when using smaller kernel sizes.
 Grooves worn into the faceplate also can cause overplanting.
- Finger mechanism planter meter: Finger mechanism planter meters can accurately plant a wide range of kernel sizes.
 Finger tension adjustment for large seed sizes and small kernel sizes may improve drop accuracy. Individual meter

OPTIMIZING PERFORMANCE OF MONOSEM NG+ PLANTERS

- Singulator setting of +1, adjust as needed to singulate
- Recommended seed plate DC2450 (24 cell) or DC3050 (30 cell)

calibration using the actual seed size to be planted, can significantly improve the spacing accuracy of this finger mechanism meter. Increasing field speed increases seed drop on these planter units.

- Always check actual field populations to ensure desired accuracy. If desired drop is not achieved, consider the following options:
 - Well-maintained planter units experience less variance.
 Have a qualified technician check planter unit condition and adjustment. Proper calibration using the actual seed size to be planted will help minimize this problem.
 - Move sprocket combination up one setting. Population drop will increase by approximately 3%. Consult manufacturer operator's operation manual.
 - Seed coated thoroughly with graphite will provide potential increase in seed drop of 1-2%.
 - Plant within the manufacturer's recommended speed range.

		Setting for Monose mium package (Va	em NG+ Planters cuum Listed in Inch	es)
Size Range (seeds/Lb)	F1	R1	F2	R2
2900 - 2999				
2800 - 2899				
2700 - 2799				
2600 - 2699	14			
2500 - 2599	14			
2400 - 2499	14			
2300 - 2399	16	18		
2200 - 2299	16	18		
2100 - 2199	16	18		
2000 - 2099	16	20	18	
1900 - 1999	18	20	18	
1800 - 1899	18	20	18	
1700 - 1799	18	22	20	
1600 - 1699	18	22	20	22
1500 - 1599	18	22	20	22
1400 - 1499		22	20	24
1300 - 1399			20	24
1200 - 1299				24
1100 - 1199				
1000 - 1099				
900 - 999				





OPTIMIZING PERFORMANCE OF CASE IH 1200 SERIES ASM PLANTERS

- Manufacturer vacuum range for corn planting is 18-22 inches of water vacuum.
- Seed disk number indicates number of holes and hole diameter.
 For example, seed disk 4855 contains 48 holes with each hole
 5.5 mm in diameter.
- Vacuum level setting is in inches of water (inches H20).
- Meter cover indicates baffle setting number. Meter inspection without draining seed can be made when baffle is set to position 0 (fully closed).
- Do not use singulator dial (lever) settings to control gross population; excessive doubles or skips will occur. Higher dial setting decreases singulator interference with seed disk holes.
- Corteva testing indicates all Corteva kernel sizes can be planted accurately with this unit. Test results for most seed sizes average within +/- 1% of the expected drop with this equipment.

		ng for the Case-IH A		
		premium package		
Size Range (seeds/Lb)	F1	R1	F2	R2
2900 - 2999				
2800 - 2899				
2700 - 2799				
2600 - 2699	2.0			
2500 - 2599	2.0			
2400 - 2499	2.0			
2300 - 2399	2.0	3.0		
2200 - 2299	2.0	3.0		
2100 - 2199	2.0	3.0		
2000 - 2099	2.0	3.0	3.0	
1900 - 1999	3.0	3.0	3.0	
1800 - 1899	3.0	3.0	3.0	
1700 - 1799	3.0	3.0	3.0	
1600 - 1699	3.0	3.0	3.0	4.0
1500 - 1599	3.0	3.0	3.0	4.0
1400 - 1499		3.0	3.0	4.0
1300 - 1399			3.0	4.0
1200 - 1299				5.0
1100 - 1199				
1000 - 1099				
900 - 999				
Vacuum Setting	20-22	20-22	20-22	20-22

- Remember to change singulators back after each seed adjustment for larger seed.
- Testing conducted at the Corteva plantability laboratory suggest vacuum and singulator settings in the manufacturer's owner's manual should be considered as a starting point. Variations may be necessary to achieve optimum plantability, especially for larger and more heavily treated seed.

OPTIMIZING PERFORMANCE OF CASE-IH 800, 900, 950 AND 955 EARLY RISER PLANTERS

- The manufacturer recommended maximum drum speed is 35 RPMs, with seed metered in a 36-hole drum. Air pressure should be set from 9 to 11 ounces.
- Plant all seed sizes except R2 using 9 ounces of pressure. Plant R2 seed sizes at 11 ounces of pressure.
- Adjust the brush to the down position for all seed sizes. For most seed sizes, do not wire the brush down as is done for soybean planting. However, R2 seed are the exception and may plant best with the brush wired down.
- Replace the entire brush assembly when wear is apparent.

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eSet® and vSet® are trademarks of Precision Planting.

MaxEmerge[™] and ExactEmerge[™] are trademarks of Deere & Company.

True Rate® is a trademark of Kinze Manufacturing.





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PowerCore^{*} multi-event technology developed by Corteva Agriscience and Monsanto. ^{*} PowerCore is a registered trademark of Monsanto Technology LLC. 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.

Roundup Ready 2 Xtend® is a registered trademark of Monsanto Technology LLC used under license.

Xtend* technology unless you use a dicamba herbicide product that is specifically labeled for that use in the location where you intend to make the application. IT IS A VIOLATION OF FEDERAL AND STATE LAW TO MAKE AN IN-CROP APPLICATION OF ANY DICAMBA HERBICIDE PRODUCT ON SOYBEANS WITH Roundup Ready 2 Xtend* technology, OR ANY OTHER PESTICIDE APPLICATION, UNLESS THE PRODUCT LABELING SPECIFICALLY AUTHORIZES THE USE. 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 soybeans with Roundup Ready 2 Xtend* technology.

ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. Soybeans with Roundup Ready 2 Xtend[®] technology contain genes that confer tolerance to glyphosate and dicamba. Glyphosate herbicides will kill crops that are not tolerant to glyphosate. Dicamba will kill crops that are not tolerant to dicamba.

Roundup Ready 2 Yield® is a trademark of Bayer group.

ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. Roundup Ready^{*} technology contains genes that confer tolerance to glyphosate, an active ingredient in Roundup^{*} brand agricultural herbicides. Agricultural herbicides containing glyphosate will kill crops that are not tolerant to glyphosate.

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.

Do not export alfalfa seed or crops containing Roundup Ready^{*} technology including hay or hay products, to China pending import approval. In addition, due to the unique cropping practices, do not plant this product in Imperial County, California. Purchase and use of HarvXtra^{*} alfalfa with Roundup Ready^{*} technology is subject to a Seed and Feed Use Agreement.

Always read and follow pesticide label directions. Alfalfa with Roundup Ready^{*} technology provides crop safety for over-the-top applications of labeled glyphosate herbicides when applied according to label directions. Glyphosate agricultural herbicides will kill crops that are not tolerant to glyphosate. ACCIDENTAL APPLICATION OF INCOMPATIBLE HERBICIDES TO THIS VARIETY COULD RESULT IN TOTAL CROP LOSS.

Corteva Agriscience is a member of Excellence Through Stewardship* (ETS). Products are commercialized in accordance with ETS Product Launch Stewardship Guidance and in compliance with the Pioneer policies regarding stewardship of those products. Crops and materials containing biotech traits may only be exported to or used, processed, or sold in jurisdictions where all necessary regulatory approvals have been granted for those crops and materials. It is a violation of national and international laws to move materials containing biotech traits across borders into jurisdictions where their import is not permitted. Growers should discuss these issues with their purchaser or grain handler to confirm the purchaser or handler's position on products being purchased. Excellence Through Stewardship* is a registered trademark of the Excellence Through Stewardship.

Optimum[®] AcreMax[®] (AM) insect protection

Optimum^{*} AcreMax^{*} Insect Protection system with YGCB, HX1, LL, RR2. Contains a single-bag integrated refuge solution for above-ground insects. In EPA-designated cotton growing counties, a 20% separate corn borerrefuge must be planted with Optimum AcreMax products.

Optimum* AcreMax* Xtra (AMX) insect protection

Optimum[®] AcreMax[®] Xtra Insect Protection system with YGCB, HXX, LL, RR2. Contains a single-bag integrated refuge solution for above- and below-ground insects. In EPA designated cotton growing counties, a 20% separate corn borer refuge must be planted with Optimum AcreMax Xtra products.

Optimum® AcreMax® XTreme (AMXT) insect protection

Contains a single-bag integrated refuge solution for above- and below-ground insects. The major component contains the Agrisure[®] RW trait, a Bt trait, and the Herculex[®] XTRA genes. In EPA-designated cotton growing counties, a 20% separate corn borer refuge must be planted with Optimum AcreMax XTreme products.

Optimum* AcreMax* Leptra* insect protection

Optimum[®] AcreMax[®] Leptra[®] products with AVBL, YGCB, HX1, LL, RR2. Contains a single-bag integrated refuge solution for above-ground insects. In EPA-designated cotton growing countries, a 20% separate corn borer refuge must be planted with Optimum AcreMax Leptra products.

In cotton growing regions, a separate 20% structured refuge is still required for Refuge Advanced. Agrisure and Agrisure Viptera* are trademarks of, and used under license from, a Syngenta Group Company. Agrisure* technology incorporated into these seeds is commercialized under a license from Syngenta Crop Protection AG.

Corn Suffix / Trait Listing	Trait			
R	Roundup Ready® Corn 2			
ER	Enlist™ Roundup Ready® Corn 2			
PW	PowerCore*			
PWRA	PowerCore [®] Refuge Advanced [®]			
PWE	PowerCore [®] Enlist™			
SX	SmartStax*			
SXRA	SmartStax® Refuge Advanced®			
SXE	SmartStax® Enlist™			
АМ	Optimum® AcreMax®			
АМХ	Optimum® AcreMax® Xtra			
AML	Optimum® AcreMax® Leptra®			
AMXT	Optimum® AcreMax® XTreme			
Q	Qrome®			
Soybean Suffix	Trait			
EE	Enlist E3®			
RX	Roundup Ready 2 Xtend®			
LL	LibertyLink*			
Sunflower Suffix	Trait			
CL	IMI Tolerant			
СР	CLEARFIELD* Plus			
E	ExpressSun®			

Components of LumiGEN™ seed treatments are applied at a Corteva Agriscience production facility, or by an independent sales representative of Corteva Agriscience or its affiliates. Not all sales representatives offer treatment services, and costs and other charges may vary. See your sales representative for details. Seed applied technologies exclusive to Corteva Agriscience. © 2022 Corteva.

