

2025 Seed Corn Plantability Guidelines

Optimal 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 seed 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, insects and nematodes.



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.

Optimal 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 high-rate 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.

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

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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.

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

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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.



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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 levels as needed.
- John Deere also recommends adding talc to improve seed singulation and row spacing of all treated seed.

Recommended Vacuum Setting for John Deere MaxEmerge™ 5 Standard Disk (A50617)						
LumiGEN® Seed Treatment Premium Package (Vacuum Listed in Inches)						
Size Range (seeds/Lb)	F1	R1	F2	R2	F3	R3
2600 - 2699						
2500 - 2599						
2400 - 2499						
2300 - 2399	6					
2200 - 2299	6					
2100 - 2199	6	10				
2000 - 2099	6	10				
1900 - 1999	8	10	8			
1800 - 1899	8	10	8			
1700 - 1799	8	10	8	10		
1600 - 1699	8	10	8	10		
1500 - 1599	8	10	8	10		
1400 - 1499	8	10	8	10		
1300 - 1399			10	10		
1200 - 1299				10		
1100 - 1199						
1000 - 1099						
900 - 999						

Recommended Vacuum Setting for John Deere MaxEmerge™ 5 - Small Disk (A43215)						
LumiGEN® Seed Treatment Premium Package (Vacuum Listed in Inches)						
Size Range (seeds/Lb)	F1	R1	F2	R2	F3	R3
2600 - 2799						
2500 - 2699						
2400 - 2599						
2300 - 2499						
2200 - 2399	12					
2100 - 2299	12					
2000 - 2199	12	18				
1900 - 2099	12	18				
1800 - 1999	12	18	12			
1700 - 1899	14	18	12			
1600 - 1799	14	18	14	18		
1500 - 1699	14	18	14	18		
1400 - 1599	14	18	16	18		
1300 - 1499	14	18	16	18		
1200 - 1399			18	18		
1100 - 1299			18	18		
1000 - 1199						
900 - 1099						

Recommended Vacuum Setting for John Deere MaxEmerge™ (A92777)						
LumiGEN® Seed Treatment Premium Package (Vacuum Listed in Inches)						
Size Range (seeds/Lb)	F1	R1	F2	R2	F3	R3
2600 - 2699						
2500 - 2599						
2400 - 2499						
2300 - 2399	18					
2200 - 2299	18					
2100 - 2199	20	18				
2000 - 2099	20	20				
1900 - 1999	22	22	20			
1800 - 1899	23	23	22			
1700 - 1799	23	24	23	23		
1600 - 1699	23	24	24	23		
1500 - 1599	24	26	24	24		
1400 - 1499	24	26	24	26		
1300 - 1399			26	26		
1200 - 1299			27	26		
1100 - 1199						
1000 - 1099						
900 - 999						

Recommended Vacuum Setting for John Deere - ProMax 40 Flat Disk (A52391)						
LumiGEN® Seed Treatment Premium Package (Vacuum Listed in Inches)						
Size Range (seeds/Lb)	F1	R1	F2	R2	F3	R3
2600 - 2699						
2500 - 2599						
2400 - 2499						
2300 - 2399	14					
2200 - 2299	14					
2100 - 2199	14	14				
2000 - 2099	16	14				
1900 - 1999	16	16	14			
1800 - 1899	16	16	16			
1700 - 1799	16	16	16	16		
1600 - 1699	16	16	16	16		
1500 - 1599	16	16	16	16		
1400 - 1499	16	16	16	16		
1300 - 1399			16	16		
1200 - 1299			16	16		
1100 - 1199						
1000 - 1099						
900 - 999						

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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 Vacuum Setting for Precision Planting eSet Disk (720003)						
LumiGEN® Seed Treatment Premium Package (Vacuum Listed in Inches)						
Size Range (seeds/Lb)	F1	R1	F2	R2	F3	R3
2600 - 2699						
2500 - 2599						
2400 - 2499						
2300 - 2399	18					
2200 - 2299	18					
2100 - 2199	18	18				
2000 - 2099	18	18				
1900 - 1999	18	18	18			
1800 - 1899	18	18	18			
1700 - 1799	18	18	18	18		
1600 - 1699	18	18	18	18	18	
1500 - 1599	18	18	18	22		
1400 - 1499	18	18	18	22		
1300 - 1399			18	22		
1200 - 1299				22		
1100 - 1199						
1000 - 1099						
900 - 999						

OPTIMIZING PERFORMANCE OF KINZE VACUUM PLANTER

- 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.

Recommended Vacuum Setting for Kinze Vacuum Planter Disk (B0678)						
LumiGEN® Seed Treatment Premium Package (Vacuum Listed in Inches)						
Size Range (seeds/Lb)	F1	R1	F2	R2	F3	R3
2600 - 2699						
2500 - 2599						
2400 - 2499						
2300 - 2399	18					
2200 - 2299	18					
2100 - 2199	18	18				
2000 - 2099	18	18				
1900 - 1999	18	20	18			
1800 - 1899	18	20	18			
1700 - 1799	20	20	18	18		
1600 - 1699	20	20	18	18		
1500 - 1599	20	20	20	20		
1400 - 1499	20	20	20	20		
1300 - 1399			20	20		
1200 - 1299				20		
1100 - 1199						
1000 - 1099						
900 - 999						

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)

Install selected seed disc. Position vacuum cover on meter by aligning keyhole slots over bolt heads. Push cover on meter and turn counter clockwise to lock in place.

True Rate® meter: Seed Disc Part No. B0678

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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.**

Recommended Vacuum Setting for White Pneumatic Planters (Small Disk)						
LumiGEN® Seed Treatment Premium Package (inches of water pressure)						
Size Range (seeds/Lb)	F1	R1	F2	R2	F3	R3
2600 - 2699						
2500 - 2599						
2400 - 2499						
2300 - 2399	1.5					
2200 - 2299	1.5					
2100 - 2199	1.5	1.5				
2000 - 2099	1.5	1.5				
1900 - 1999	1.5	1.5	1.5			
1800 - 1899	1.5	1.5	1.5			
1700 - 1799	1.5	1.5	1.5	1.5		
1600 - 1699	1.5	1.5	1.5	1.5		
1500 - 1599	2.0	1.5	1.5	1.5		
1400 - 1499	2.0	2.0	1.5	1.5		
1300 - 1399			2.0	1.5		
1200 - 1299				2.0		
1100 - 1199						
1000 - 1099						
900 - 999						

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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 percent 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 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.

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)

Recommended Vacuum Setting for Monosem NG+ Planters						
LumiGEN® Seed Treatment Premium Package (Vacuum Listed in Inches)						
Size Range (seeds/Lb)	F1	R1	F2	R2	F3	R3
2600 - 2699						
2500 - 2599						
2400 - 2499						
2300 - 2399	14					
2200 - 2299	14					
2100 - 2199	14	20				
2000 - 2099	16	20				
1900 - 1999	16	20	20			
1800 - 1899	18	20	20			
1700 - 1799	18	20	20	22		
1600 - 1699	18	20	20	22		
1500 - 1599	18	20	20	22		
1400 - 1499	18	20	20	24		
1300 - 1399			20	24		
1200 - 1299			20	24		
1100 - 1199						
1000 - 1099						
900 - 999						

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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 H2O).
- 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.
- 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.

Recommended Singulator Setting for the Case-IH ASM Model 1200 (4855)						
LumiGEN® Seed Treatment Premium Package (Singulator Setting)						
Size Range (seeds/Lb)	F1	R1	F2	R2	F3	R3
2600 - 2699						
2500 - 2599						
2400 - 2499						
2300 - 2399	3.0					
2200 - 2299	3.0					
2100 - 2199	3.0	4.0				
2000 - 2099	3.0	4.0				
1900 - 1999	3.0	4.0	3.0			
1800 - 1899	3.0	4.0	3.0			
1700 - 1799	4.0	4.0	3.0			
1600 - 1699	4.0	4.0	3.0	3.0		
1500 - 1599	4.0	5.0	3.0	4.0		
1400 - 1499	4.0	5.0	4.0	4.0		
1300 - 1399			4.0	5.0		
1200 - 1299				5.0		
1100 - 1199						
1000 - 1099						
900 - 999						
Vacuum Setting	20-22	20-22	20-22	20-22	20-22	20-22

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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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 borer refuge 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 counties, 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

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™
AM	Optimum® AcreMax®
AMX	Optimum® AcreMax® Xtra
AML	Optimum® AcreMax® Leptra®
AMXT	Optimum® AcreMax® XTreme
Q	Qrome®

Soybean Suffix

Soybean Suffix	Trait
EE	Enlist E3®
RX	Roundup Ready 2 Xtend®
LL	LibertyLink®

Sunflower Suffix

Sunflower Suffix	Trait
CL	IMI Tolerant
CP	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.