Nullech 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.

Batch-Specific Plantability Information

For the precise planter recommendations, you can access information for individual seed batch numbers and your specific planter on <u>NuTech's Plantability Website</u>.

This allows users to easily select their planter and enter their batch number (found on bag tag) to get specific recommendations on disk/plate, pressure/vacuum, RPM, and seed drop. Use recommended planter setting as a starting point to maximize planter performance and seed-drop accuracy. Further setting adjustments may be made to account for local field conditions and environmental factors.

Hybrid Plantability with LumiGEN® Seed Treatments

LumiGEN® seed treatments provide NuTech® 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 adding talc or graphite to the seed to improve plantability. The polymers used as part of 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 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 fingertype 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

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





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 1% - 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

Graphite is recommended for lubrication. Talc is not recommended as a sole lubricant for the Advanced Seed Meter (ASM), 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 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 CaselH 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 Agriscience 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. Several opportunities exist for professional assistance with meter maintenance and calibration, including assistance from your sales professional.

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.

Recome	mended Vacu	um Setting f	or Procision	Planting VS	Sat® Mater	
	® Seed Treat					es)
Size Range		1	1 0			
(seeds/Lb)	XF1	XR1	XF2	XR2	XF3	XR3
2900 - 2999						
2800 - 2899						
2700 - 2799						
2600 - 2699						
2500 - 2599						
2400 - 2499						
2300 - 2399						
2200 - 2299	20					
2100 - 2199	20					
2000 - 2099	20					
1900 - 1999	20	20				
1800 - 1899	20	20				
1700 - 1799	20	20				
1600 - 1699	20	20	20			
1500 - 1599			20	20		
1400 - 1499			20	20		
1300 - 1399			20	20	20	20
1200 - 1299				20	20	20
1100 - 1199					20	20
1000 - 1099						
900 - 999						

 Precision Planting recommends use of their eFlow lubricant, a mix of talc and graphite.

Recommer	nded Vacuum	Setting for	Precision Pl	anting eSet I	Disk (720003	3)
LumiGEN	N® Seed Trea	atment prem	ium package	e (Vacuum L	isted in Inches)
Size Range						
(seeds/Lb)	XF1	XR1	XF2	XR2	XF3	XR3
2900 - 2999						
2800 - 2899						
2700 - 2799						
2600 - 2699						
2500 - 2599						
2400 - 2499						
2300 - 2399						
2200 - 2299	18					
2100 - 2199	18					
2000 - 2099	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	22		
1300 - 1399			22	22		
1200 - 1299			22	22	22	
1100 - 1199					22	22
1000 - 1099						
900 - 999						





Optimizing Performance of John Deere Vacuum Planters

- The manufacturer's recommended maximum operating speed is 38 disk RPMs.
- ¹ 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.
- ¹ John Deere also recommends adding talc-graphite blend to improve seed singulation and row spacing of all treated seed.

Recommen	nded Vacuun	n Setting for	John Deere	ExactEmerg	ge TM (A9277	7)
LumiGEN	N® Seed Tre	atment pren	nium packag	e (Vacuum L	isted in Inches)
Size Range						
(seeds/Lb)	XF1	XR1	XF2	XR2	XF3	XR3
2900 - 2999						
2800 - 2899						
2700 - 2799						
2600 - 2699						
2500 - 2599						
2400 - 2499						
2300 - 2399						
2200 - 2299	20					
2100 - 2199	20					
2000 - 2099	20	21				
1900 - 1999	22	23	20			
1800 - 1899	23	24	23			
1700 - 1799	23	24	24			
1600 - 1699	24	24	24	23		
1500 - 1599	24	24	25	24		
1400 - 1499		24	25	25		
1300 - 1399			25	25		
1200 - 1299			26	26	26	
1100 - 1199					26	26
1000 - 1099						
900 - 999						

Recommended Va						
	N® Seed Tre	atment pren	nium packag	e (Vacuum L	isted in Inches)
Size Range						
(seeds/Lb)	XF1	XR1	XF2	XR2	XF3	XR3
2900 - 2999						
2800 - 2899						
2700 - 2799						
2600 - 2699						
2500 - 2599						
2400 - 2499						
2300 - 2399						
2200 - 2299						
2100 - 2199	8					
2000 - 2099	8					
1900 - 1999	8	12				
1800 - 1899	8	12	8			
1700 - 1799	8	12	8			
1600 - 1699	8	14	8			
1500 - 1599	10	14	10	12		
1400 - 1499	10	14	10	12		
1300 - 1399		14	12	14		
1200 - 1299			14	16	18	
1100 - 1199			14	16	18	
1000 - 1099					18	18
900 - 999						

Recommended Vacuum Setting for John Deere MaxEmerge TM 5 - Small Disk (A43215) LumiGEN® Seed Treatment premium package (Vacuum Listed in Inches)								
	N® Seed Trea	atment prem	num packag	e (V acuum L	isted in Inches)		
Size Range	77774	TVD4	YZTO	WDO	X/XIO	Y/D4		
(seeds/Lb)	XF1	XR1	XF2	XR2	XF3	XR3		
2900 - 3099								
2800 - 2999								
2700 - 2899								
2600 - 2799								
2500 - 2699								
2400 - 2599								
2300 - 2499								
2200 - 2399	4.0							
2100 - 2299	12							
2000 - 2199	12	4.0						
1900 - 2099	14	18	12					
1800 - 1999	14	18	12					
1700 - 1899	16	18	14					
1600 - 1799	16	18	16	10				
1500 - 1699	18	18	16	18				
1400 - 1599	18	18	18	18				
1300 - 1499		18	18	18				
1200 - 1399			18	18	4.0			
1100 - 1299			18	18	18	4.0		
1000 - 1199					18	18		
900 - 1099								
Recommende								
LumiGEN	d Vacuum Se N® Seed Trea							
LumiGEN Size Range	N® Seed Trea	atment prem	ium packag	e (Vacuum L	isted in Inches)		
LumiGEN Size Range (seeds/Lb)								
LumiGEN Size Range (seeds/Lb) 2900 - 2999	N® Seed Trea	atment prem	ium packag	e (Vacuum L	isted in Inches)		
LumiGEN Size Range (seeds/Lb) 2900 - 2999 2800 - 2899	N® Seed Trea	atment prem	ium packag	e (Vacuum L	isted in Inches)		
LumiGEN Size Range (seeds/Lb) 2900 - 2999 2800 - 2899 2700 - 2799	N® Seed Trea	atment prem	ium packag	e (Vacuum L	isted in Inches)		
LumiGEN Size Range (seeds/Lb) 2900 - 2999 2800 - 2899 2700 - 2799 2600 - 2699	N® Seed Trea	atment prem	ium packag	e (Vacuum L	isted in Inches)		
LumiGEN Size Range (seeds/Lb) 2900 - 2999 2800 - 2899 2700 - 2799 2600 - 2699 2500 - 2599	N® Seed Trea	atment prem	ium packag	e (Vacuum L	isted in Inches)		
LumiGEN Size Range (seeds/Lb) 2900 - 2999 2800 - 2899 2700 - 2799 2600 - 2699 2500 - 2599 2400 - 2499	N® Seed Tre: XF1	atment prem	ium packag	e (Vacuum L	isted in Inches)		
LumiGEN Size Range (seeds/Lb) 2900 - 2999 2800 - 2899 2700 - 2799 2600 - 2699 2500 - 2599 2400 - 2499 2300 - 2399	N® Seed Tre: XF1 12	atment prem	ium packag	e (Vacuum L	isted in Inches)		
LumiGEN Size Range (seeds/Lb) 2900 - 2999 2800 - 2899 2700 - 2799 2600 - 2699 2500 - 2599 2400 - 2499 2300 - 2399 2200 - 2299	XF1 XF1 12	atment prem	ium packag	e (Vacuum L	isted in Inches)		
LumiGEN Size Range (seeds/Lb) 2900 - 2999 2800 - 2899 2700 - 2799 2600 - 2699 2500 - 2599 2400 - 2499 2300 - 2399 2200 - 2299 2100 - 2199	XF1	XR1	ium packag	e (Vacuum L	isted in Inches)		
LumiGEN Size Range (seeds/Lb) 2900 - 2999 2800 - 2899 2700 - 2799 2600 - 2699 2500 - 2599 2400 - 2499 2300 - 2399 2200 - 2299 2100 - 2199 2000 - 2099	XF1 12 12 12 12	XR1	XF2	e (Vacuum L	isted in Inches)		
LumiGEN Size Range (seeds/Lb) 2900 - 2999 2800 - 2899 2700 - 2799 2600 - 2699 2500 - 2599 2400 - 2499 2300 - 2399 2200 - 2299 2100 - 2199 2000 - 2099 1900 - 1999	N® Seed Tres XF1 12 12 12 12 12 12 12	XR1 12 12	XF2 XF2	e (Vacuum L	isted in Inches)		
LumiGEN Size Range (seeds/Lb) 2900 - 2999 2800 - 2899 2700 - 2799 2600 - 2699 2500 - 2599 2400 - 2499 2300 - 2399 2200 - 2299 2100 - 2199 2000 - 2099 1900 - 1999 1800 - 1899	XF1 12 12 12 12	XR1	XF2	e (Vacuum L	isted in Inches)		
LumiGEN Size Range (seeds/Lb) 2900 - 2999 2800 - 2899 2700 - 2799 2600 - 2699 2500 - 2599 2400 - 2499 2300 - 2399 2200 - 2299 2100 - 2199 2000 - 2099 1900 - 1999 1800 - 1899 1700 - 1799	N® Seed Tres XF1 12 12 12 12 12 12 14	12 12 12 14 14	XF2 XF2 12 12 12	xR2	isted in Inches)		
LumiGEN Size Range (seeds/Lb) 2900 - 2999 2800 - 2899 2700 - 2799 2600 - 2699 2500 - 2599 2400 - 2499 2300 - 2399 2200 - 2299 2100 - 2199 2000 - 2099 1900 - 1999 1800 - 1899 1700 - 1799 1600 - 1699	N® Seed Tres XF1 12 12 12 12 12 14 14 14	XRI 12 12 12	XF2 XF2	XR2 XR2	isted in Inches)		
LumiGEN Size Range (seeds/Lb) 2900 - 2999 2800 - 2899 2700 - 2799 2600 - 2699 2500 - 2599 2400 - 2499 2300 - 2399 2200 - 2299 2100 - 2199 2000 - 2099 1900 - 1999 1800 - 1899 1700 - 1799 1600 - 1699 1500 - 1599	N® Seed Tres XF1 12 12 12 12 12 12 14	12 12 14 14 14 14	12 12 12 14	XR2 12 12	isted in Inches)		
LumiGEN Size Range (seeds/Lb) 2900 - 2999 2800 - 2899 2700 - 2799 2600 - 2699 2500 - 2599 2400 - 2499 2300 - 2399 2400 - 2499 2300 - 2399 2100 - 2199 2000 - 2099 1900 - 1999 1800 - 1899 1700 - 1799 1600 - 1699 1500 - 1599	N® Seed Tres XF1 12 12 12 12 12 14 14 14	12 12 12 14 14 14	12 12 12 14 14	12 12 14	isted in Inches)		
LumiGEN Size Range (seeds/Lb) 2900 - 2999 2800 - 2899 2700 - 2799 2600 - 2699 2500 - 2599 2400 - 2499 2300 - 2399 2200 - 2299 2100 - 2199 2000 - 2099 1900 - 1999 1800 - 1899 1700 - 1799 1600 - 1699 1500 - 1599 1400 - 1499	N® Seed Tres XF1 12 12 12 12 12 14 14 14	12 12 14 14 14 14	12 12 12 14 14 14	12 12 14 14	XF3)		
LumiGEN Size Range (seeds/Lb) 2900 - 2999 2800 - 2899 2700 - 2799 2600 - 2699 2500 - 2599 2400 - 2499 2300 - 2399 2200 - 2299 2100 - 2199 2000 - 2099 1900 - 1999 1800 - 1899 1700 - 1799 1600 - 1699 1500 - 1599 1400 - 1499 1300 - 1399	N® Seed Tres XF1 12 12 12 12 12 14 14 14	12 12 14 14 14 14	12 12 12 14 14	12 12 14	XF3	XR3		
LumiGEN Size Range (seeds/Lb) 2900 - 2999 2800 - 2899 2700 - 2799 2600 - 2699 2500 - 2599 2400 - 2499 2300 - 2399 2200 - 2299 2100 - 2199 2000 - 2099 1900 - 1999 1800 - 1899 1700 - 1799 1600 - 1699 1500 - 1599 1400 - 1499	N® Seed Tres XF1 12 12 12 12 12 14 14 14	12 12 14 14 14 14	12 12 12 14 14 14	12 12 14 14	XF3)		





Optimizing Performance of Kinze Vacuum Planter

¹ True Rate® meter: Seed Disc Part No. B0678

(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
傷	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.

Recomme	nded Vacuun	n Setting for	Kinze Vacu	ıum Planter	Disk (B0678	5)
LumiGEN	N® Seed Trea	itment prem	ium package	e (Vacuum L	isted in Inches)
Size Range						
(seeds/Lb)	XF1	XR1	XF2	XR2	XF3	XR3
2900 - 2999						
2800 - 2899						
2700 - 2799						
2600 - 2699						
2500 - 2599						
2400 - 2499						
2300 - 2399						
2200 - 2299	18					
2100 - 2199	18					
2000 - 2099	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	18	18	
1100 - 1199					18	18
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 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 such as ER3, and small kernel sizes such as ER1 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.





Precision Planting Finger-Type Precision Meter

Corteva Agriscience has not tested plantability of the precision meter from Precision Planting because it is assumed units will be custom calibrated by a trained MeterMax* technician. If all seed being planted is large (XF3 or XR3), 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 available for planting flat seed sizes, 1200 to 2200 seeds/lb.

LumiGEN®	Seed Treatr	ment premiu	m package (j	pressure mea	sured in incl	nes)
Size Range (seeds/Lb)	XF1	XR1	XF2	XR2	XF3	XR
2900 - 2999						
2800 - 2899						
2700 - 2799						
2600 - 2699						
2500 - 2599						
2400 - 2499						
2300 - 2399						
2200 - 2299	1.5					
2100 - 2199	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	2.0	1.5			
1600 - 1699	1.5	2.0	1.5	1.5		
1500 - 1599	2.0	2.0	1.5	1.5		
1400 - 1499		2.0	2.0	2.0		
1300 - 1399			2.5	2.0		
1200 - 1299			2.5	2.0	2.5	
1100 - 1199					2.5	2.5
1000 - 1099						
900 - 999						

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)

Rec	ommended \	Vacuum Sett	ing for Mon	osem NG+1	Planters	
LumiGE	N® Seed Tre	eatment pren	nium packag	e (Vacuum L	isted in Inches)
Size Range						
(seeds/Lb)	XF1	XR1	XF2	XR2	XF3	XR3
2900 - 2999						
2800 - 2899						
2700 - 2799						
2600 - 2699						
2500 - 2599						
2400 - 2499						
2300 - 2399						
2200 - 2299	14					
2100 - 2199	14					
2000 - 2099	16	20				
1900 - 1999	16	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			22	24		
1200 - 1299			22	24	24	
1100 - 1199					24	24
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 Agriscience testing indicates all 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.
- Remember to change singulators back after each seed adjustment for larger seed.
- Testing conducted at the Corteva Agriscience's 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.

Recommen	ded Singulat	or Setting fo	r the Case-II	H ASM Mod	lel 1200 (485	55)
LumiG	EN® Seed	Treatment p	remium pacl	kage (Singula	tor Setting)	
Size Range						
(seeds/Lb)	XF1	XR1	XF2	XR2	XF3	XR3
2900 - 2999						
2800 - 2899						
2700 - 2799						
2600 - 2699						
2500 - 2599						
2400 - 2499						
2300 - 2399						
2200 - 2299	3					
2100 - 2199	3					
2000 - 2099	3	4				
1900 - 1999	4	4	3			
1800 - 1899	4	4	3			
1700 - 1799	4	4	3			
1600 - 1699	4	5	4	4		
1500 - 1599	5	5	4	4		
1400 - 1499		5	4	5		
1300 - 1399			5	5		
1200 - 1299			5	5	6	
1100 - 1199					6	7
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 XR2 and XR3 using 9 ounces of pressure. Plant XR2 and XR3 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 soyb ean planting. However, XR2 and XR3 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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