

# BETWEEN THE ROWS<sup>®</sup>

## Optimizing Plantability

Wyffels.com

March 3, 2026

### Optimize Plantability

Accurate singulation and seed placement are critical to maximizing corn yield. A planter that is properly maintained and set up will help optimize accuracy but changing field conditions and seed sizes will require in-field adjustments. To help farmers optimize planter performance, we have compiled these recommendations from several equipment manufacturers.

### Vacuum Settings

One of the most important in-field adjustments influencing singulation is planter vacuum.

- Seed size and weight varies by hybrid, but any seed can be planted accurately when adjusted properly. In general:
  - **Doubles** are caused by too much vacuum.
  - **Skips** are caused by too little vacuum.
- Advanced seed monitors improve the ease of real-time vacuum adjustment. Manufacturer-recommended vacuum settings can be found in Table 2.

### Seed Lubricant

Most planter manufacturers recommend using a seed lubricant like talc or graphite.

- Add the recommended talc/graphite in layers when loading to ensure even coverage. Manufacturer-recommended seed lubricants are listed in Table 1.
  - **Talc** is good at attracting moisture and prevents clumping or bridging due to moisture. It also provides some dry lubrication.
  - **Graphite** helps with metal-on-metal meter components. Graphite also helps to prevent clumping due to static electricity buildup in the plastic center fill hoses due to its conductivity.

### Seed Storage Prior to Planting

Another important factor to ensure accurate and trouble-free planting is weather and seed storage conditions. While it is always important to store seed in a dry place, high humidity can affect flowability at planting.

- In humid conditions, additional talc is required to help dry seed and minimize bridging and flowability problems.
- The most severe issues occur when planting occurs in warm, humid conditions when the seed is still cool. In these conditions, condensation can form on the seed, creating flowability problems. Steps to acclimate seed in these conditions will help minimize issues.
  - Staging seed in a heated shop or in warm sunshine helps warm seed and prevent condensation or evaporate any condensation that has formed.
  - In severe instances additional talc helps, but too much can create bread dough. In these severe cases graphite is required to improve flowability.

**Table 1. Manufacturer Lubricant Recommendations**


Brand	Meter	Lubricant
Precision Planting	vSet / mSet	eFlow seed lubricant (or 80/20 talc/graphite mixture): 1/4 cup per 80k unit
	eSet	
Case IH	1200 series	Graphite: 1 cup per 16 units. Use higher rates of 50/50 talc/graphite mixture if issues with center fill flowability
	2000 series	eFlow seed lubricant (or 80/20 talc/graphite mixture): 1/4 cup per 80k unit
John Deere	ExactEmerge	Talc/graphite mix: 2.5 oz / 80k unit Double rate in humid conditions and heavy seed treatments
	MaxEmerge 5	Talc: 2.5 oz / 80k unit Double rate in humid conditions and heavy seed treatments
	Finger Pickup	Graphite with each fill
Kinze	True Rate	Graphite: 1 lb / 50 unit fill or 1Tbsp / fill with conventional hoppers. 80/20 talc-graphite mixture at 4-8 lbs / 50 unit fill is to be used with treated seed.
	True Speed	
	Finger Pickup	Graphite with each fill
White	Positive Air	Talc with center fill systems and treated seed

**Table 2. Manufacturer Recommended Planter Settings**

Brand	Meter	Seed Tube	Disk #	Vacuum Pressure Setting														Notes
				>67 lbs Seeds / Lb	62 lbs 1300	57 lbs 1400	53 lbs 1500	50 lbs 1600	47 lbs 1700	44 lbs 1800	42 lbs 1900	40 bs 2000	38 lbs 2100	36 lbs 2200	35 lbs 2300	<33 lbs >2400		
Precision Planting	vSet / mSet	Standard	730079	20	20	20	20	20	20	20	20	20	20	20	20	20	20	Baffle Position: 2
		Speed Tube		20-25	20-25	20-25	20-25	20-25	20-25	20-25	20-25	20-25	20-25	20-25	20-25	20-25	20-25	20-25
	eSet	Standard	720003	18-20	18-20	18-20	18-20	18-20	18-20	18-20	18-20	18-20	18-20	18-20	18-20	18-20	18-20	Singulator: Floating; Lower Brush and Extractor: Regular; Deflector: Up
Case IH	1200 series	Standard	2455/3655/4855	20-22	20-22	20-22	20-22	20-22	20-22	18-20	18-20	18-20	18-20	18-20	18-20	18-20	18-20	Baffle Setting: 2 Singulator Dial Setting: 3
		Speed Tube	2450/3650/4850															
	2000 series	Standard	47779568	20	20	20	20	20	20	20	20	20	20	20	20	20	20	Baffle Position: 2
		Speed Tube		20-25	20-25	20-25	20-25	20-25	20-25	20-25	20-25	20-25	20-25	20-25	20-25	20-25	20-25	
John Deere	ExactEmerge		A92777	23	22	22	21	20	19	19	19	18	18	18	17	17	16	Use bowl A135462 for better performance with small/medium flats (1400-2400 sds/lb)
			A135462	25±5	23±7	22±7	21±8	20±8	19±8	19±8	19±8	18±8	18±8	18±8	17±8	17±8	16±8	Better performance with small / medium flats (1400-2400sds/lb). Start with Double Eliminator at -1
	MaxEmerge 5		A50617	8-16	8-16	8-16	8-16	6-14	6-14	6-14	6-14	6-14	6-10	6-10	6-10	6-10	1-7	Double Eliminator: 0; Knockout Wheel Wiper Blade: AA79993
			A43215	13-17	13-17	13-17	13-17	11-15	11-15	11-15	11-15	11-15	11-15	9-13	9-13	9-13	4-10	Double Eliminator: 5; Knockout Wheel: A52389
			A52391 ProMax 40	14-18	14-18	14-18	14-18	13-17	13-17	13-17	13-17	11-15	11-15	11-15	11-15	9-13		
	Finger Pickup			Operate at 3 - 6mph. Slower ground speeds should be used with smaller seed sizes to minimize doubles.														
Kinze	True Rate		B1219 (light blue)	18-21	18-21	18-21	18-20	18-20	18-20	18-20	18-20	18-20	18-20	18-20	18-20	18-20	18-20	Singulator Zone Setting: 2
	True Speed		G10347701 (light blue)	15-19	13-19	13-19	11-19	11-19	11-19	11-19	11-19	11-19	11-19	11-19	11-17	11-17	11-17	Blue Ejector Wheel; Baffle Setting: 1
	Finger Pickup			Operate at 3 - 6mph. Slower ground speeds should be used with smaller seed sizes to minimize doubles.														
White	Positive Air		Small (852436)	2.5-4	2-4	2-4	2-4	2-4	1.5-4	1.5-4	1.5-2	1.5-2	1.5-2	1.5-2	1.5	1.5	1.5	
			Medium (852435)	1-3	1-2.5	1-2.5	1-2	1-2	1-1.5	1-1.5	1-1.5	1-1.5	1-1.5	1-1.5	1-1.5	1-1.5	1-1.5	

**FINETUNING SETTINGS**  
**If too many skips → increase pressure | If too many doubles → decrease pressure**

From the desk of



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