BETWEEN THE ROWS®

Optimizing Plantability

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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 that influences singulation is planter vacuum settings. Seed size and weight varies by hybrid, but any seed can be planted accurately when adjusted properly. In general, too much vacuum results in doubles while not enough vacuum results in skips. The increased prevalence of accurate seed monitoring sensors on planters means singulation issues are identified in real-time, allowing the operator to fine-tune settings on the fly to improve singulation and maximize yield potential. A summary of manufacturer recommended settings can be found in Table 2.

Seed Lubricant

Most planter manufacturers recommend using a seed lubricant like talc or graphite. Seed lubricants should be added in layers while loading the planter to ensure even coverage.

Talc is good at attracting moisture and preventing clumping or bridging due to moisture while also providing some dry lubrication.

Graphite is a dry lubricant helpful for metal on metal meter components. Graphite is also conductive, meaning it helps to prevent clumping due to static electricity buildup in the plastic center fill hoses.

Equipment suggestions for seed lubricants are listed in Table 1. Consulting your owner's manual is important to ensure proper use and rates.

Seed Storage Prior to Planting

Another important factor to ensure accurate and troublefree planting is weather and seed storage conditions. While it is always important to store seed in a dry place, high humidity can still cause issues with flowability at planting. Some key considerations about weather and seed storage:

- 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. If seed is cool when it comes out of storage, the humid conditions will cause condensation 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 to 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	vSet / mSet	eFlow seed lubricant (or 80/20 talc/graphite
Planting	eSet	mixture): 1/4 cup per 80k unit
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
	ExactEmerge	Talc/graphite mix: 2.5 oz / 80k unit Double rate in humid conditions and heavy seed treatments
John Deere	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
	True Speed	treated seed.
	Finger Pickup	Graphite with each fill
White	Positive Air	Talc with center fill systems and treated seed



Table 2. Manufacturer Recommended Planter Settings

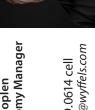
)		:	:					-	- 1		
		Bag Weig	Bag Weight (80k unit)	sql /9<	SQI 79	2/ Ibs	23 lbs	sql 0c	47 lbs	44 lbs	42 lbs	40 ps	38 lbs	36 lbs	35 lbs <	<33 lbs	
		See	Seeds / Lb	< 1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	>2400	
Brand	Meter	Seed Tube	Disk#						Vacuum	Pressure	Setting						Notes
	7.0	Standard	020002	20	20	20	20	20	20	20	20	20	20	8	20	20	C
Precision	nacii / jacv	SpeedTube	670067	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	Dallie Position. Z
Planting	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	S 18-20 a	Singulator: Floating; Lower Brush and Extractor: Regular; Deflector: Up
	4200 0001	7	2455/3655/4855	20-22	20-52	20-22	20-22	20-22	18-20	18-20	18-20	18-20				В	Baffle Setting: 2
U 0000	selles	Standard	2450/3650/4850									18-20	18-20	18-20	18-20	18-20 S	Singulator Dial Setting: 3
Case	JOHO 000C	Standard	0330227	20	20	20	20	20	20	20	20	20	20	20	20	20	Dofficer 2
	ZOOO SELIES	Speed Tube	41113300	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	allie Position. Z
	ExactEmerge		A92777	23	22	22	21	20	19	19	18	18	17	17	17	16 p	Use bowl A135462 for better performance with small/medium flats (1400-2400 sds/lb)
-			A50617	8-16	8-16	8-16	8-16	6-14	6-14	6-14	6-14	01-9	6-10	01-9	1-7	1-7	Double Eliminator: 0;
John Deere	MaxEmerge 5		A43215	13-17	13-17	13-17	13-17	11-15	11-15	11-15	11-15	9-13	9-13	9-13	4-10	4-10 A	Anjockout writeel wiper blade. AA79993
			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	9-13	9-13 K	Double Eliminator: 5; Knockout Wheel: A52389
	Finger Pickup			Operate a	ıt 3 - 6mph	າ. Slower ູ	round spe	eds shoul	d be used	with small	er seed si	Operate at 3 - 6mph. Slower ground speeds should be used with smaller seed sizes to minimize doubles.	imize douk	oles.			
	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	O)	Singlulator Zone Setting: 2
Kinze	True Speed		G10347701 (light blue)	15-19	13-19	13-19	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 a	ıt 3 - 6mph	າ. Slower ເ	round spe	eds shoul	pesn eq p	with small	ler seed si	Operate at 3 - 6mph. Slower ground speeds should be used with smaller seed sizes to minimize doubles.	imize douk	oles.			
otid/M	Dositiva 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	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						

FINETUNING SETTINGS

If too many skips —> increase pressure | If too many doubles —> decrease pressure

From the desk of

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