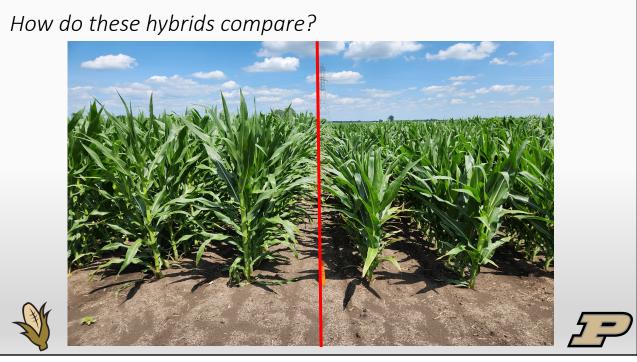
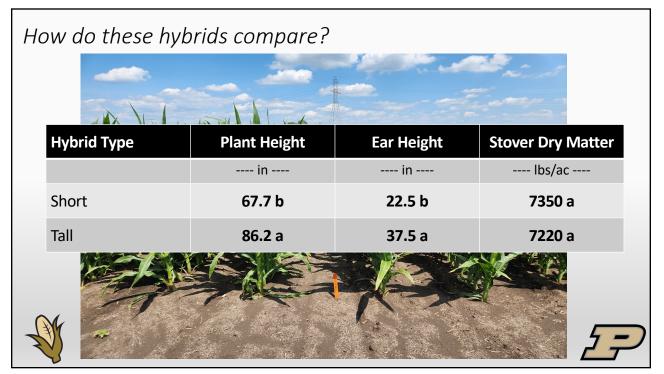


So Why Short-Stature Hybrids? Lodging Resistance Higher Population Tolerance Higher Narrow Row Tolerance Easier In-Season Access Nitrogen Fungicide



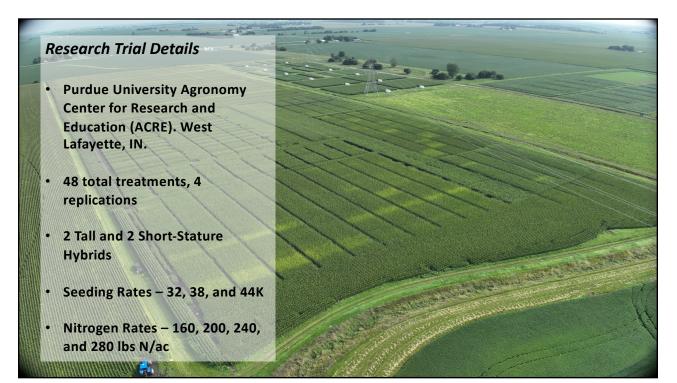




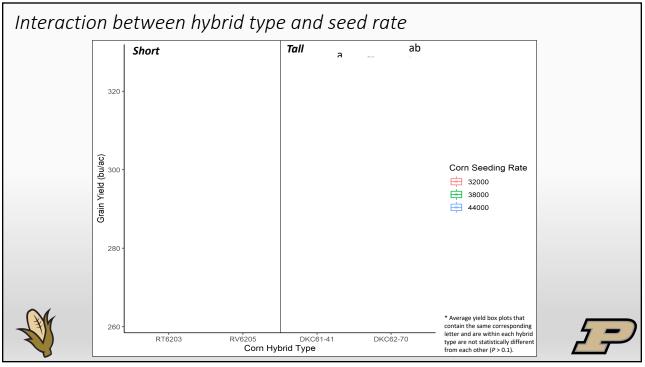
What questions do we have? How do short-stature hybrids yield in comparison to full-stature hybrids? Do optimum seeding and nitrogen rates differ with short-stature hybrids in comparison to full-stature hybrids? How do short-stature hybrids perform in narrow (20-in) rows? How do short-stature hybrids respond to foliar fungicide?

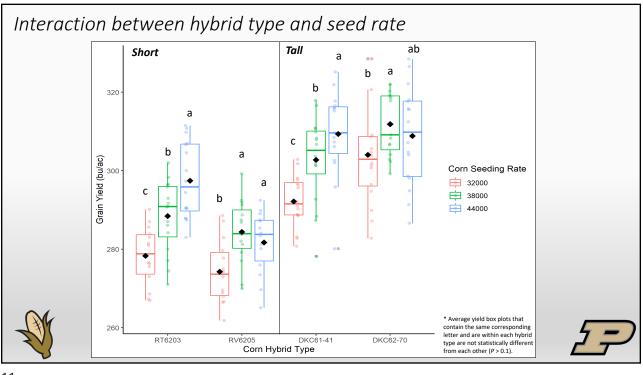
Short-stature and Full-stature Corn Hybrid Response to Nitrogen Rate and Plant Population

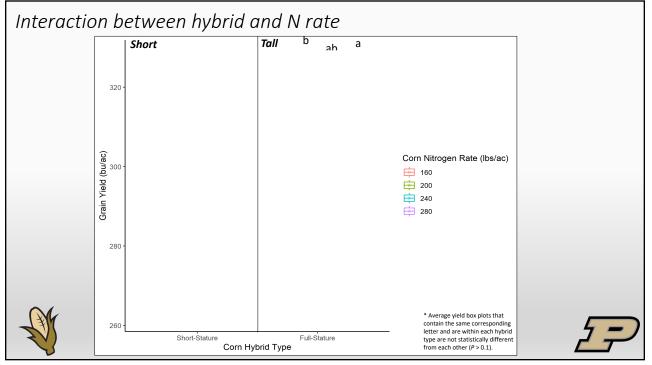


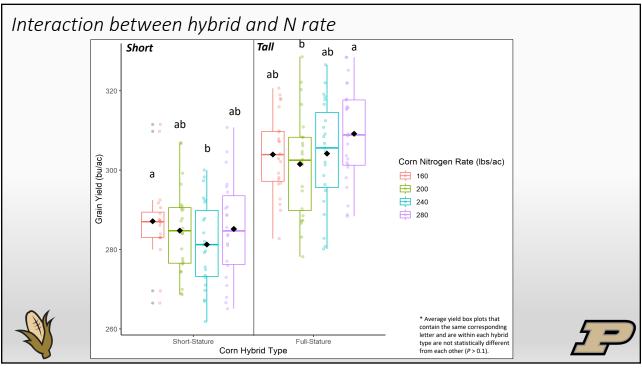


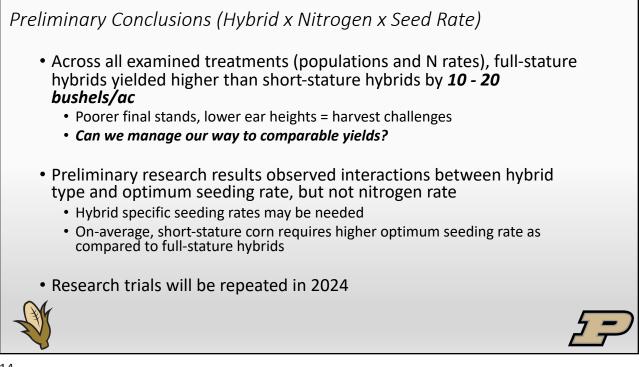
tature vs. Short-Stature (Al	l Treatments)	
Hybrid (Type)	Grain Yield	Plant Stand
	bu/ac	plants/ac
RT6203TVX2 (Short)	288.3 d*	35982 bc
RV6205TVX4 (Short)	280.1 c	35585 c
DKC61-41RIB (Tall)	301.6 b	36246 b
DKC62-70RIB (Tall)	308.3 a	37387 a
* Average corn grain yield and sta column are not statistically differ	and values that contain the same correspondent from each other ($P > 0.1$).	ling letter and are within the same

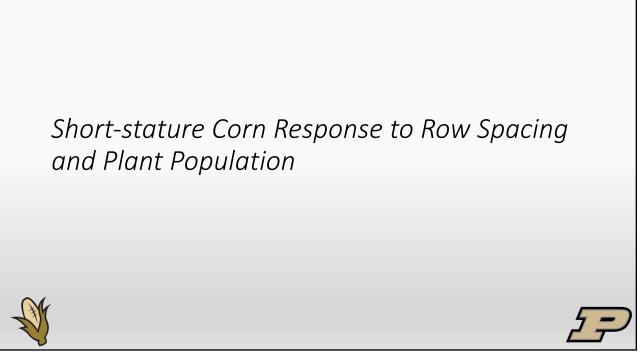




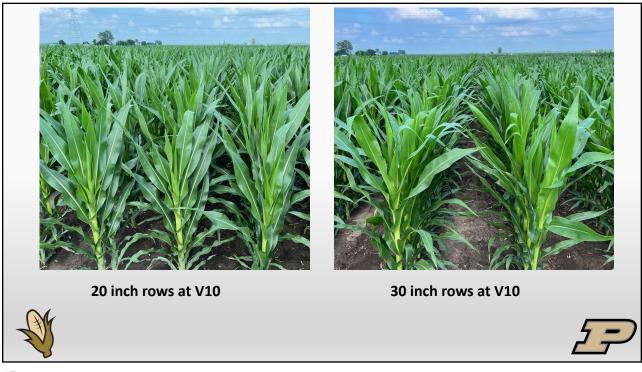




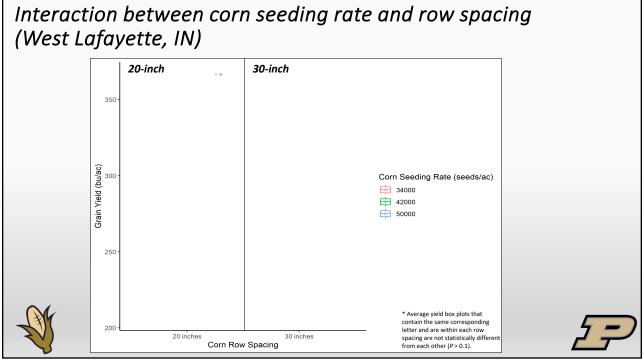


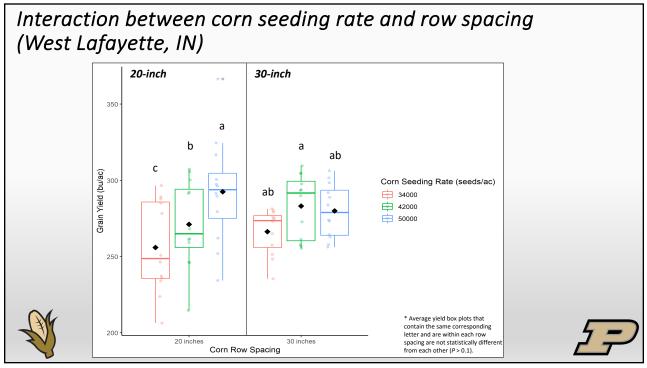


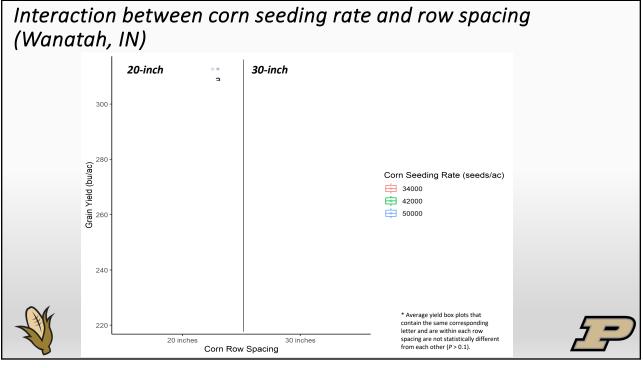
Research Trial Details:	and the second s
Row Spacing:	
20 inch and 30 inch rows	
Corn Hybrid (Short-stature only):	The second second of the second se
 RT6203TVXZ 	and the second
• RV6205TVXZ	1998 I TO A CONTRACTOR OF THE OWNER
• RW5419KTFZ	The second s
Corn Seeding Rate:	
 34K seeds/ac 42K seeds/ac 	
 50K seeds/ac 	
Juk seedsyde	
Study Locations:	
West Lafayette, IN (ACRE)	
• Wanatah, IN (PPAC)	

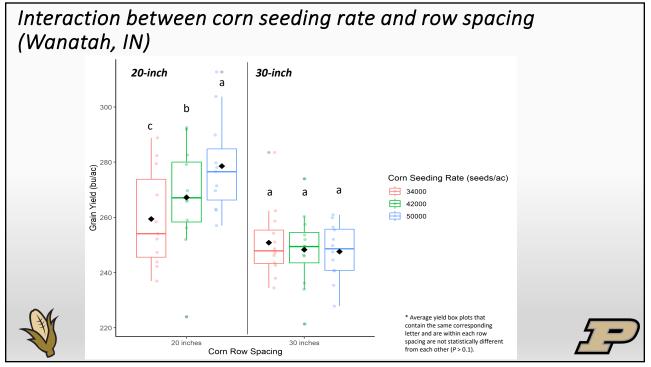


Location	Row Spacing	Yield
	in	bu/ac
West Lafayette, IN	20	273.2 a*
	30	276.5 a
Wanatah, IN	20	258.6 a
	30	249.0 a









Short-stature corn yield, ear height, and plant height response to hybrid type. West Lafayette, IN 2023

Hybrid	Yield	Ear Height (measured from shank attachment)	Plant Height (R3 growth stage)
	bu/ac	inches	inches
RT6203TVXZ	294.1 a*	22.4 a	67.3 a
RV6205TVXZ	280.7 b	21.1 b	65.1 b
RW5419KTFZ	249.8 c	18.7 c	65.0 b

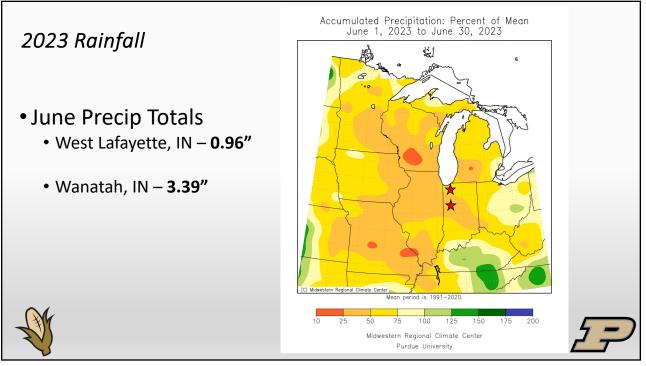
23

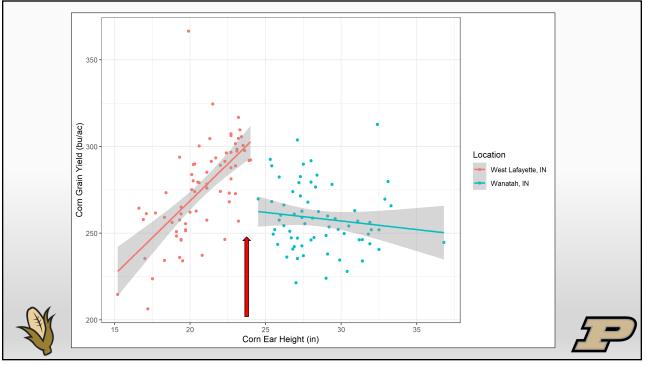
Short-stature corn yield, ear height, and plant height response to hybrid type. Wanatah, IN 2023

Hybrid	Yield	Ear Height (measured from shank attachment)	Plant Height (R3 growth stage)
	bu/ac	inches	inches
RT6203TVXZ	243.7 b*	29.4 ab	66.7 c
RV6205TVXZ	251.5 b	31.4 a	80.1 a
RW5419KTFZ	266.1 a	27.3 b	72.5 b

* Average corn grain yield and height values that contain the same corresponding letter and are within the same column are not statistically different from each other (P > 0.1).



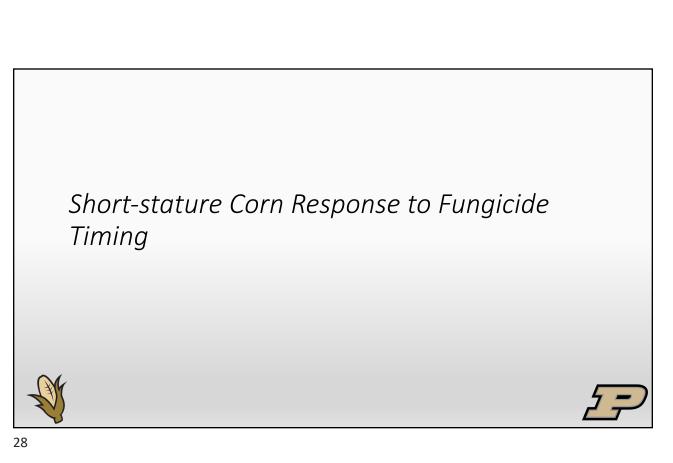




Preliminary Conclusions (Hybrid x Row Spacing x Seed Rate)

- Short-stature hybrids have higher optimum seeding rates and yield potential in 20 inch rows
- Ear Height is KEY
 - Hybrid selection
 - Environment
 - Management Practice Influence







Short-stature corn response to fungicide timing (3 hybrids)

Fungicide Timing	Yield	Tar Spot Severity (R5)	Gray Leaf Spot Severity (R5)
	bu/ac	%	%
None	257.8 b*	12.1 a	8.1 a
R1	266.7 ab	1.2 b	3.9 b
R1 + R3	273.7 a	0.1 b	1.9 b
	in yield and disease severity values t re not statistically different from eac		letter and are within

