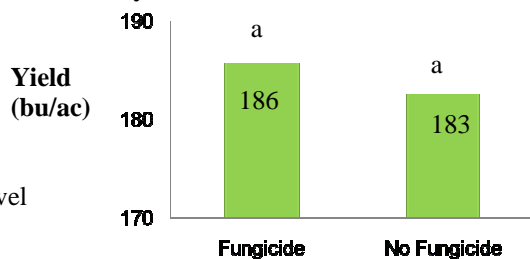


2008 Polk County Corn Hybrid Trial

Graph 1.

Fungicide effect averaged Across 51 hybrids - Crookston 2008



10% Probability level



Purpose of Study:

To evaluate corn hybrids in northwestern Minnesota in the 80 to 88 relative maturity range and to evaluate the effect of Headline fungicide on corn yield.

Company	Hybrid	RM	Trait	GDU BL	No Headline bu/ac	Headline bu/ac
Pioneer	39N99	89	HX1LLRR2	2020	206.3	202.2
NK	N15A	80	GTCBLL	2040	203.6	194.5
Dyna-Gro	52V01	87	RRVT3	2175	203.4	193.6
Hyland	HLB24R	81	YGCBRR	early	200.0	201.8
Proseed	787VT3	87	VT3	2030	199.0	190.6
Dyna-Gro	51V89	84	RRVT3	2100	198.6	182.6
Peterson	PFS56J86	86	VT3	2125	197.1	196.5
Pioneer	39B23	88	HX1LLRR3	2090	195.4	193.3
NK	N16MGTCBLL	82	GTCBLL	2110	193.8	195.0
REA Hybrids	2N396	83	RRYGCB	2100	193.6	180.2
Gold Country	85-04R	85	RR2	2250	192.1	191.8
Wensman	6087	87	RR2	2070	191.3	188.9
Proseed	884VT3	84	RRBT	2000	190.8	206.4
Hyland	HLR230	86	RR	early	190.0	193.8
Seeds 2000	8801VT3	88	VT3RW		190.0	196.2
Peterson	PFS37L84	84	RRYGCB	2035	189.4	178.2
Gold Country	8403CBR	84	RR2YGCB	2150	188.6	196.5
Garst	89Z07GT/CB/LL	88	GTCBLL	2180	188.0	180.0
Mycogen	2T220		YGRR		187.7	176.5
Garst	89527GTCBLL	80	GTCBLL	1990	187.6	183.1
NuTech	3A-484	84	RR	2160	186.4	177.6
Legend	LR9780RB	80	RRBT	1910	184.9	181.7
Mycogen	2K154	83	HerculexLLRR		182.8	203.4
DeKalb	DKC33-54	83	RR2		182.7	201.2
Legend	LR9783VT3	83	RRBTRW	1980	182.3	187.6
NuTech	3P-484	84	YGPLRR	2170	182.2	184.7
Seeds 2000	2822RRBT	82	YGCB		181.4	185.7

2008 Polk County Corn Hybrid Trial Continued

Company	Hybrid	RM	Trait	GDU BL	No Headline bu/ac	Headline bu/ac
REA Hybrids	1787RR2	79	RR		181.2	181.0
REA Hybrids	1823YGCBRR2	85	RRYGCB	2200	180.5	165.5
Mycogen	2P174	85	YGRR		179.2	194.4
Proseed	781RR/BT	81	RRBT	1900	179.0	203.4
Hyland	HLR228	85	RR	early	178.3	177.0
Integra	9361RBC	86	RRCBRW	2185	176.2	187.7
Integra	65D85RB	84	RRCB	2050	174.2	197.9
Wensman	7083	80	YGVT3	2040	174.2	176.4
Croplan	2340RH	83	RR2HX1LL	2150	173.7	171.3
NK	N22-C2	87	GTCBLL	2260	173.2	182.2
Croplan	229RR2/BT	80	RR BT	2020	173.0	173.3
Croplan	238RR/BT	85	RR BT	2180	172.9	172.6
Legend	LR9584VT3	84	RRBTRW	1995	172.6	179.0
Dyna-Gro	51P15	85	RRYGCB	2125	172.3	194.2
Integra	9311RBC	81	RRCB	1950	170.2	171.3
NuTech	3C-383+	83	YGCBRR	2090	169.6	170.4
Gold Country	84-02CBR	84	RR2YGCB	2270	168.8	186.7
Seeds 2000	8201VT3	82	VT3		168.2	164.0
DeKalb	DKC35-19	85	RR2 YGCB	2260	164.0	175.7
Peterson	PFS54M83	83	VT3	2030	163.4	175.8
Pioneer	39V08	80	HX1LLRR4	1910	163.1	188.6
Wensman	7085	84	YGVT3	2000	162.8	192.7
DeKalb	DKC33-11	83	RR2/YGCB	2150	159.4	168.4
Garst	89N10GT	77	GTCBLL	1839	152.9	168.6
Trial mean bu/ac					183	186
LSD .05% bu/ac					22.0	20.3

Results:

With the cool 2008 growing season it was questionable whether the corn would reach black-layer prior to a killing frost but did make it being we did not have a killing frost until late October. Harvesting conditions were far from ideal with high corn ear moisture content and extremely wet soil conditions. We were able to harvest the hybrid trials on November 20 due to frozen ground to carry the plot combine. Special thanks goes out to Croplan Genetics and Guy Martin for the assistance with planting and harvesting these plots with their plot equipment. These plots were planted on May 5 and harvested November 20, 2008. Statistically there was no yield difference with or without Headline fungicide at the 0.10 level as is shown in graph 1.

The above table gives the hybrid characteristics and the yields we measured corrected to 15.5% moisture content for the 51 hybrids with and without Headline fungicide applied. As can be seen with the LSD at the .05% level at the bottom of the table hybrids not treated with Headline fungicide that differed by more than 22.0 bu/ac were significantly different from each other therefore the yields in blue or the top 22 hybrids are not statistically different from each other (Pioneer 39N99 through Legend LR9780RB). The same 51 hybrids treated with Headline fungicide, hybrids differing by less than 20.3 bu/ac are not statistically different from each other again being 22 hybrids with a high of 206.4 bu/ac (Proseed 884VT3) not different from 186.7 bu/ac. (Gold Country Seed 84-02CBR).

A special thanks goes out to Elliot and Eric Solheim for providing the space on their farm to conduct these trials and for obtaining the hybrids from the various companies.