

# 2002 Manitoba Corn Hybrid Performance Trials



Conducted by the Manitoba Corn Committee

Subcommittee of the  
Manitoba Corn Growers' Association

Manitoba  
Agriculture  
and Food



## Manitoba Corn Committee

The Manitoba Corn Committee (MCC) is a group of individuals from the Manitoba Corn Growers' Association, Canadian Seed Trade Association, Manitoba Agriculture and Food, and Manitoba Crop Insurance Corporation who are concerned with the production of grain corn in Manitoba. The Committee has the authority within the Province of Manitoba to conduct trials of corn hybrids with a view to provide information to Manitoba producers about the performance of corn hybrids in Manitoba trials. The Committee publishes the data from the trials in the "Manitoba Corn Hybrid Performance Trials" brochure annually.

In 2002, the MCC had trials in Graysville, Reinland, Edwin, Boissevain, and Grunthal. However, due to excessive moisture early in the growing season, the Grunthal site was not taken to harvest. The data from the four remaining sites, along with long term yield and moisture content averages, are presented.

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## Boissevain

Company	Variety	Note <sup>1</sup>	CHU <sup>2</sup>	2002 Results				2001 & 2002 Average	
				Yield <sup>3</sup> (bu/ac)	Moisture <sup>4</sup> (%)	Density (lb/bu)	Silking (50%)	Yield (bu/ac)	Moisture (%)
PIONEER	39F45		1950	42.6	24.8	58.4	65		
PIONEER	39N03		2000	51.7	24.4	58.9	68	53	20.3
PIONEER	39P78		2000	75.7	21.1	58.3	70		
PIONEER	39W54		2100	55.2	26.7	50.2	75	65	20.7
PIONEER	39M27	Bt	2150	70.6	25.4	54.6	73	88	21.0
SYNGENTA	4011		2150	40.3	20.6	56.8	71	54	17.8
SYNGENTA	N03-L5		2150	59.4	24.5	56.7	70		
DEKALB	DKC26-82	Bt	2200	58.5	31.1	53.2	73	78	23.2
DEKALB	DKC26-75		2200	57.3	29.7	52.7	69	70	22.2
GARST	8985		2200	55.8	30.1	53.2	68	71	23.4
HYLAND SEEDS	HLX2023		2200	58.8	29.6	51.5	70		
SYNGENTA	N03-D8		2200	64.2	24.7	54.4	71	75	20.6
HYLAND SEEDS	HL 2017		2225	53.0	28.6	55.0	69	70	22.6
HYLAND SEEDS	HL 2093		2225	58.4	25.8	54.2	71	69	20.6
PIONEER	39R34	Bt	2225	73.4	27.8	56.3	71		
DEKALB	DKC27-12	RR	2250	46.6	25.4	57.1	71	61	21.1
DEKALB	DK 221		2250	42.3	28.4	55.8	72	60	22.7
DEKALB	DKC27-15	RR/Bt	2250	64.8	32.7	55.2	73		
MAIZEX	MZ 119		2250	57.9	27.5	53.7	73		
PIONEER	39B01		2250	46.4	28.1	50.8	73		
PIONEER	39T68		2250	71.5	26.6	55.0	71		
SEEDS 2000	2791		2275	61.6	30.7	47.8	72		
SYNGENTA	N04-T4		2275	55.2	32.5	50.2	71	74	24.5
MAIZEX	MZ 130		2300	56.7	26.0	54.1	72		
PICKSEED CANADA INC.	2338		2300	52.6	45.7	47.6	70	60	30.5
PICKSEED CANADA INC.	2351		2300	49.9	37.1	47.0	78		
GARST	8951		2325	59.4	34.5	50.8	76		
DEKALB	DKC29-95		2350	53.0	30.4	47.5	70	66	23.6
HYLAND SEEDS	HL B260	Bt	2375	54.1	37.3	54.5	74	80	27.3
HYLAND SEEDS	HL 2222		2375	58.5	32.4	50.7	74	75	25.0
PICKSEED CANADA INC.	2585		2400	51.1	30.6	51.2	75		
DEKALB	DKC33-08		2450	61.4	37.9	48.1	75		
DEKALB	DKC32-59	RR	2475	58.6	28.1	49.6	73	74	23.3
HYLAND SEEDS	HLX 1002		2475	47.5	37.5	44.7	76		
SEEDS 2000	2843		2475	42.9	48.6	41.5	78		

<b>Average</b>	56.2	30.1	52.5	72.0
<b>C.V.<sup>5</sup></b>	14.0	9.3	7.2	n/a
<b>LSD</b>	12.1	5.0	36.4	n/a

Seeded: May 23, 2002; Plant Population: 26,000 plants/acre; Harvested: October 17, 2002

Reinland

Company	Variety	Note <sup>1</sup>	CHU <sup>2</sup>	2002 Results				1999-2002 Average		
				Yield <sup>3</sup> (bu/ac)	Moisture <sup>4</sup> (%)	Density (lb/bu)	Silking (50%)	Yield (bu/ac)	Moisture (%)	Years of Data <sup>5</sup>
PIONEER	39F45		1950	82.5	18.9	59.3	68			
PIONEER	39N03		2000	82.2	19.3	59.1	68			
PIONEER	39P78		2000	118.9	17.7	60.0	69			
PIONEER	39W54		2100	130.7	17.9	59.9	71	130	19.4	4
PRIDE	K083		2100	155.8	23.5	56.6	71			
PRIDE	K080		2125	155.8	20.7	59.4	72	144	25.1	3
PIONEER	39M27	Bt	2150	150.9	21.1	59.3	70	144	22.3	4
SYNGENTA	4011		2150	130.8	19.6	59.6	71	117	20.9	4
SYNGENTA	N03-L5		2150	115.4	20.2	59.1	70			
DEKALB	DKC26-82	Bt	2200	151.5	22.7	58.9	74	146	22.9	3
DEKALB	DKC26-75		2200	120.6	20.9	57.4	70	127	20.7	4
GARST	8985		2200	131.6	21.4	57.8	70	114	22.1	4
HYLAND SEEDS	HLX2023		2200	131.8	21.8	57.0	70			
SYNGENTA	N03-D8		2200	144.1	20.7	58.9	71	143	22.3	2
HYLAND SEEDS	HL 2017		2225	116.7	22.4	57.7	69	118	22.3	4
HYLAND SEEDS	HL 2093		2225	143.0	20.8	56.7	71	136	22.6	2
PIONEER	39R34	Bt	2225	162.0	21.0	59.6	72	147	22.3	3
DEKALB	DKC27-12	RR	2250	131.5	21.3	59.5	71	135	24.0	2
DEKALB	DK 221		2250	131.6	22.3	59.0	72	131	23.8	4
DEKALB	DKC27-15	RR/Bt	2250	134.9	23.1	59.2	72			
PIONEER	39B01		2250	144.2	19.7	58.4	72	148	21.9	2
PIONEER	39T68		2250	139.4	20.6	59.6	70	138	23.1	4
PIONEER	39T71	LL	2250	140.0	21.6	59.5	71	144	23.6	2
PRIDE	K108		2250	149.6	21.6	57.1	73	146	24.9	4
PIONEER	39J26		2275	135.7	26.3	56.9	69	134	27.4	3
SEEDS 2000	2791		2275	168.5	24.0	57.3	72			
SYNGENTA	N04-T4		2275	137.7	22.8	57.2	72	132	24.7	2
PICKSEED CANADA INC.	2338		2300	143.4	23.5	54.6	71	136	22.7	3
PICKSEED CANADA INC.	2351		2300	146.1	24.7	56.2	75			
GARST	8951		2325	140.2	25.7	57.3	76			
DEKALB	DKC29-95		2350	141.9	22.5	57.4	72	140	23.2	4
PIONEER	39A30	LL	2350	152.9	24.5	55.3	74			
PIONEER	39A26		2350	156.2	20.8	57.3	74	152	25.2	4
HYLAND SEEDS	HL B260	Bt	2375	157.7	24.6	56.1	75	158	25.8	2
HYLAND SEEDS	HL 2222		2375	157.5	23.2	54.3	75	146	25.1	3
MAIZEX	MZ 135		2400	146.0	28.2	55.4	76			
PICKSEED CANADA INC.	2585		2400	141.0	24.0	54.7	75			
PIONEER	39R62		2400	152.2	23.2	57.5	73	159	25.2	2
PIONEER	39H84		2400	153.9	22.8	55.9	74			
PIONEER	39G12		2400	152.7	24.7	56.3	75			
DEKALB	DKC33-08		2450	152.7	22.9	56.5	75			
DEKALB	DKC32-59	RR	2475	148.2	22.7	55.3	74	152	25.0	2
HYLAND SEEDS	HLX 1002		2475	164.8	25.7	57.7	74			
PIONEER	39V62		2475	156.1	28.1	53.4	75			
SEEDS 2000	2843		2475	145.0	28.1	50.9	79			
DEKALB	DKC35-51	RR/Bt	2550	159.9	27.2	53.6	75			
<b>Average</b>				141.4	22.6	57.3	72.3			
<b>C.V.<sup>5</sup></b>				5.7	4.5	1.6	1.0			
<b>LSD</b>				13.6	1.8	9.7	1.3			

Comments:

<sup>1</sup> Note - hybrids designated as having Bt have genetic resistance to European Corn Borer, as RR have Roundup tolerance, and LL have Liberty tolerance.

<sup>2</sup> Each company assigns a corn heat unit (CHU) rating to each of their hybrids. The CHU rating is a measure of relative maturity and is one criteria for choosing a hybrid which will mature in your area. Moisture content at harvest, density, and days to 50% silk are other measurements to look at when choosing a hybrid.

<sup>3</sup> Yields are corrected to 15.5% moisture content.

<sup>4</sup> Moisture content at harvest. Graysville was harvested October 17, Reinland October 14, Edwin October 22, and Boissevain October 17.

<sup>5</sup> CV = coefficient of variation. A measure of random variation in a trial. A small CV is desirable.

<sup>6</sup> Value indicates number of site years of data. Blanks indicate hybrid entered for the first time in 2002.

<sup>7</sup> No data was collected at Graysville/Carman site in 1999.

Seeded: May 14, 2002; Plant Population: 26,000 plants/acre; Harvested: October 14, 2002

Edwin

Company	Variety	Note <sup>1</sup>	CHU <sup>2</sup>	2002 Results				1999-2002 Average			
				Yield <sup>3</sup> (bu/ac)	Moisture <sup>4</sup> (%)	Density (lb/bu)	Silking (50%)	Yield (bu/ac)	Moisture (%)	Years of Data <sup>6</sup>	
PIONEER	39F45		1950	89.3	20.7	56.5	61				
PIONEER	39N03		2000	92.0	19.0	59.1	61				
PIONEER	39P78		2000	97.2	20.1	58.8	63				
PIONEER	39W54		2100	117.5	18.4	58.3	65	120	19.8	4	
PRIDE	K083		2100	127.7	22.7	54.5	64				
PRIDE	K080		2125	117.0	22.1	56.6	66	119	19.3	3	
PIONEER	39M27	Bt	2150	109.4	23.3	55.7	64				
SYNGENTA	4011		2150	106.8	19.3	56.0	65	106	20.6	4	
SYNGENTA	N03-L5		2150	119.5	20.8	56.6	65				
DEKALB	DKC26-82	Bt	2200	95.9	22.5	55.9	69	111	19.3	3	
DEKALB	DKC26-75		2200	102.6	22.4	55.8	64	120	22.2	4	
GARST	8985		2200	110.1	19.7	57.0	63	110	21.9	4	
HYLAND SEEDS	HLX2023		2200	99.9	20.8	55.1	64				
SYNGENTA	N03-D8		2200	128.1	20.7	56.3	66	140	18.9	2	
HYLAND SEEDS	HL 2017		2225	106.6	20.3	55.1	64	107	22.3	4	
HYLAND SEEDS	HL 2093		2225	131.1	20.2	55.4	65	127	20.2	4	
PIONEER	39R34	Bt	2225	133.0	20.8	58.4	66	127	18.4	3	
DEKALB	DKC27-12	RR	2250	113.9	25.0	55.9	66	119	22.4	2	
DEKALB	DK 221		2250	95.4	21.2	56.5	68	111	21.9	4	
DEKALB	DKC27-15	RR/Bt	2250	117.5	26.8	55.9	68				
MAIZEX	MZ 119		2250	112.4	23.0	53.9	65				
PIONEER	39B01		2250	132.0	19.8	54.8	66	140	18.5	2	
PIONEER	39T68		2250	117.5	21.4	57.7	64	120	21.4	4	
PIONEER	39T71	LL	2250	126.0	21.8	55.6	64	127	20.8	2	
PRIDE	K108		2250	113.9	22.6	55.1	67	111	22.4	4	
PIONEER	39J26		2275	106.2	26.3	55.1	62	116	24.6	3	
SEEDS 2000	2791		2275	146.1	23.7	55.1	67				
SYNGENTA	N04-T4		2275	101.6	23.3	53.7	65	105	20.3	3	
MAIZEX	MZ 130		2300	118.5	21.7	54.1	69				
PICKSEED CANADA INC.	2338		2300	119.9	22.0	53.4	65	128	18.6	3	
PICKSEED CANADA INC.	2351		2300	101.9	23.3	54.7	72				
GARST	8951		2325	103.4	25.4	53.9	72				
DEKALB	DKC29-95		2350	114.2	28.3	53.1	66	123	25.6	4	
PIONEER	39A30	LL	2350	121.1	24.4	51.5	69				
PIONEER	39A26		2350	128.8	21.6	54.5	69	134	23.6	4	
HYLAND SEEDS	HL B260	Bt	2375	117.5	23.2	52.9	70				
HYLAND SEEDS	HL 2222		2375	132.2	23.9	54.6	70	128	20.1	3	
MAIZEX	MZ 135		2400	135.8	23.6	54.1	70				
PICKSEED CANADA INC.	2585		2400	118.3	23.6	52.6	71				
PIONEER	39R62		2400	141.4	21.0	54.2	68	150	20.9	2	
PIONEER	39H84		2400	134.3	20.9	54.5	68				
PIONEER	39G12		2400	131.7	24.5	55.5	69				
DEKALB	DKC33-08		2450	128.1	20.5	55.0	71				
DEKALB	DKC32-59	RR	2475	120.1	22.0	51.5	69	136	20.3	2	
HYLAND SEEDS	HLX 1002		2475	128.4	24.7	54.5	69				
PIONEER	39V62		2475	109.4	30.2	51.3	70				
SEEDS 2000	2843		2475	95.2	29.3	46.7	75				
				<b>Average</b>	116.3	22.6	55.0	66.8			
				<b>C.V.</b> <sup>5</sup>	8.1	6.1	1.9	1.4			
				<b>LSD</b>	14.6	2.4	10.5	1.6			

Seeded: May 22, 2002; Plant Population: 26,000 plants/acre; Harvested: October 22, 2002

Graysville

Company	Variety	Note <sup>1</sup>	CHU <sup>2</sup>	2002 Results				2000-2002 Average <sup>7</sup>			
				Yield <sup>3</sup> (bu/ac)	Moisture <sup>4</sup> (%)	Density (lb/bu)	Silking (50%)	Yield (bu/ac)	Moisture (%)	Years of Data <sup>6</sup>	
PIONEER	39F45		1950	96.8	21.2	56.7	71				
PIONEER	39N03		2000	87.8	21.4	56.2	72				
PIONEER	39P78		2000	112.3	19.9	59.4	73				
PIONEER	39W54		2100	137.0	15.6	58.2	76	128	18.4	3	
PRIDE	K083		2100	147.2	24.5	54.0	78				
PRIDE	K080		2125	150.8	23.4	54.7	76	142	22.8	3	
PIONEER	39M27	Bt	2150	147.8	19.8	59.0	75	146	22.1	3	
SYNGENTA	4011		2150	118.6	19.2	58.4	75	119	20.0	3	
SYNGENTA	N03-L5		2150	115.0	20.8	57.1	76				
SEEDS 2000	2731		2175	142.0	22.3	58.9	77				
DEKALB	DKC26-82	Bt	2200	126.3	25.4	56.0	77	131	24.8	3	
DEKALB	DKC26-75		2200	144.1	20.2	56.6	73	134	21.2	3	
GARST	8985		2200	129.5	22.5	54.5	74	118	21.5	3	
HYLAND SEEDS	HLX2023		2200	122.1	21.9	56.9	74				
SYNGENTA	N03-D8		2200	130.8	21.0	58.2	76	135	21.9	2	
HYLAND SEEDS	HL 2017		2225	125.9	22.5	54.7	75	122	22.6	3	
HYLAND SEEDS	HL 2093		2225	131.3	18.5	56.4	76	133	20.5	3	
PIONEER	39R34	Bt	2225	157.0	22.7	58.6	76	143	23.6	3	
DEKALB	DKC27-12	RR	2250	146.6	22.1	56.4	76	138	24.7	2	
DEKALB	DK 221		2250	103.7	23.9	57.8	75	114	25.2	3	
DEKALB	DKC27-15	RR/Bt	2250	131.2	28.7	56.6	78				
MAIZEX	MZ 119		2250	127.9	21.3	55.2	78				
PIONEER	39B01		2250	149.3	20.0	54.7	77	153	21.0	2	
PIONEER	39T68		2250	136.2	18.4	58.0	74	137	21.0	3	
PIONEER	39T71	LL	2250	131.1	22.6	56.3	75	141	23.0	2	
PRIDE	K108		2250	134.9	20.8	55.7	77	137	23.5	3	
PIONEER	39J26		2275	126.0	28.4	56.8	74	128	27.9	3	
SEEDS 2000	2791		2275	168.1	23.2	55.1	78				
SYNGENTA	N04-T4		2275	141.2	23.4	55.0	76	134	25.5	2	
MAIZEX	MZ 130		2300	146.0	19.4	56.1	79				
PICKSEED CANADA INC.	2338		2300	146.2	22.2	52.1	76	139	21.5	3	
PICKSEED CANADA INC.	2351		2300	132.4	26.7	54.6	80				
GARST	8951		2325	138.2	29.5	54.0	80				
DEKALB	DKC29-95		2350	135.0	23.7	55.2	76	131	23.6	3	
MAIZEX	MZ 18-02RR	RR	2350	137.9	20.4	56.0	78				
PIONEER	39A30	LL	2350	144.3	25.1	53.2	80				
PIONEER	39A26		2350	138.5	21.8	54.2	79	135	23.5	3	
HYLAND SEEDS	HL B260	Bt	2375	144.4	21.4	53.7	80				
HYLAND SEEDS	HL 2222		2375	141.3	26.7	54.2	78	128	26.0	3	
MAIZEX	MZ 135		2400	133.8	25.0	54.9	80				
PICKSEED CANADA INC.	2585		2400	137.2	23.3	54.2	80				
PIONEER	39R62		2400	156.4	25.3	52.8	78	163	25.9	2	
PIONEER	39H84		2400	147.5	22.2	53.0	79				
PIONEER	39G12		2400	145.8	24.6	54.6	79				
DEKALB	DKC33-08		2450	156.6	22.8	53.2	80				
DEKALB	DKC32-59	RR	2475	144.9	24.7	51.7	79	149	26.8	2	
HYLAND SEEDS	HLX 1002		2475	153.8	29.1	53.2	79				
PIONEER	39V62		2475	140.2	32.2	50.3	80				
SEEDS 2000	2843		2475	134.0	29.4	46.0	85				
				<b>Average</b>	136.2	23.1	55.3	77.0			
				<b>C.V.</b> <sup>5</sup>	7.3	7.0	2.6	1.1			
				<b>LSD</b>	15.7	2.8	14.0	1.4			

Seeded: May 11, 2002; Plant Population: 26,000 plants/acre; Harvested: October 17, 2002