

Manitoba Agriculture Variety Guide

GRAIN CORN — MID SEASON

Comments:

The 2020 grain corn hybrid trial was tested and the data donated by the Manitoba Corn Committee. The data presented is for one year only. Use with caution.

All hybrids were planted using a target plant population of 32,000 plants per acre.

Yields are corrected to 15.5% moisture content.

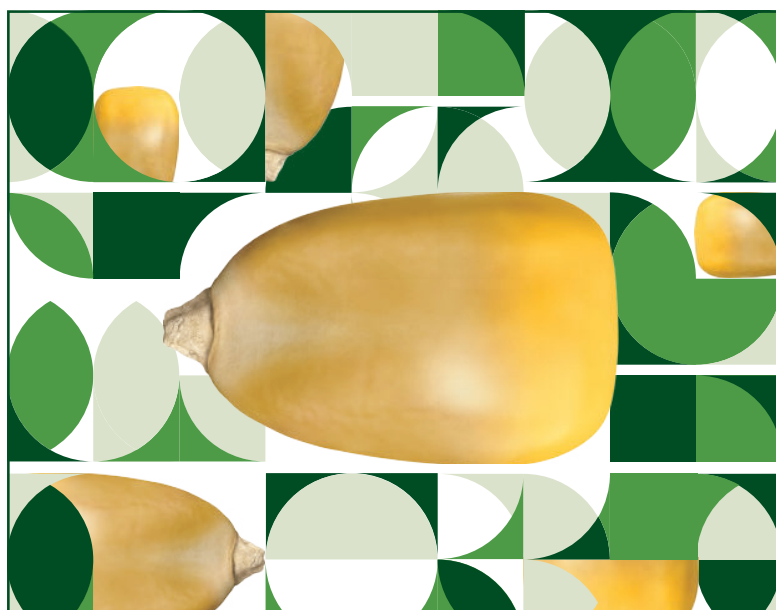
The Manitoba Corn Committee publishes the annual results along with more detailed lab analysis in their brochure. The brochure is available by calling the Manitoba Crop Alliance office at 204-745-6661 or visiting their website at <https://www.mbcropalliance.ca>.

CHU ¹	Hybrid	Technology/ Genetic Traits ²	Distributor	MacGregor			St. Pierre		
				Yield (bu/ac)	Moisture (%)	Bushe l Wt (lbs/bu)	Yield (bu/ac)	Moisture (%)	Bushe l Wt (lbs/bu)
2000	P7005AM	YGCB/HX1/LL/RR2	Corteva Agriscience	130	17.9	54.4	109	16.0	53.4
2025	DKC21-36RIB	VT2P	Bayer Crop Science	148	21.8	52.4	148	16.0	53.9
2025	MZ 1200DBR	VT2P	Maizex Seeds	150	21.7	52.4	145	15.3	53.1
2025	A3993G2 RIB	VT2P	PRIDE Seeds	142	19.3	54.0	132	16.0	55.3
2025	TH4072 RR	RR2	Thunder Seed	157	21.0	51.9	125	17.1	52.9
2050	P7202AM	YGCB/HX1/LL/RR2	Corteva Agriscience	150	19.8	53.2	118	16.8	53.5
2050	P7211AM	YGCB/HX1/LL/RR2	Corteva Agriscience	160	18.5	53.7	131	15.3	52.7
2050	PV 60172RR	RR2	Nutrien Ag Solutions	144	22.5	51.4	135	17.1	53.4
2050	TH7673 VT2P	VT2P	Thunder Seed	131	22.6	53.2	128	16.6	55.1
2100	DKC24-06RIB	VT2P	Bayer Crop Science	159	22.8	52.1	160	17.7	52.8
2100	P7417R	RR2	Corteva Agriscience	133	21.6	51.4	134	17.0	51.3
2100	P7455R	RR2	Corteva Agriscience	135	21.1	53.2	147	16.0	55.5
2100	E44H12R	VT2P	Maizex Seeds	139	22.2	52.1	127	16.3	54.8
2100	NS 72-521	VT2PRIB	NorthStar Genetics	142	22.1	52.3	115	18.0	52.9
2100	TH6875 VT2P	VT2P	Thunder Seed	152	22.4	52.7	146	16.5	52.4
2125	P7417AM	YGCB/HX1/LL/RR2	Corteva Agriscience	152	18.3	52.3	116	16.1	53.0
2125	PS 2210VT2P RIB	GENVT2P	DLF Pickseed	140	22.1	50.1	115	17.8	50.2
2150	DKC26-40RIB	VT2P	Bayer Crop Science	150	20.0	53.3	147	16.4	54.0
2150	P7527AM	YGCB/HX1/LL/RR2	Corteva Agriscience	146	24.4	49.3	131	17.0	53.1
2150	HZ 1265	Agrisure GT	Horizon Seeds	132	21.5	53.3	112	17.5	55.1
2150	MZ 1340DBR	VT2P	Maizex Seeds	155	22.3	52.4	139	17.4	53.2
2150	A4414RR	RR2	PRIDE Seeds	136	20.9	54.7	121	16.5	53.7
2175	PV 61276RIB	VT2P	Nutrien Ag Solutions	146	21.7	52.2	155	18.4	52.7
2175	TH7677 VT2P	VT2P	Thunder Seed	153	21.6	52.7	131	15.0	52.5
2200	EXP77-20	VT2P	Bayer Crop Science	155	23.6	50.5	126	16.1	53.3
2200	P7861R	RR2	Corteva Agriscience	150	20.9	49.6	135	16.8	51.3
2200	HZ 1451	Agrisure 3120 EZR	Horizon Seeds	131	23.1	51.2	122	18.3	52.9
2200	PV 61177SRR	RR2	Nutrien Ag Solutions	161	24.7	51.0	141	18.8	52.2
2200	XP20076G2	VT2P	PRIDE Seeds	144	21.7	54.1	143	16.1	54.9
2200	TH6977 VT2P	VT2P	Thunder Seed	138	23.1	51.0	156	17.2	52.3
2250	P7861AM	YGCB/HX1/LL/RR2	Corteva Agriscience	149	22.3	50.3	144	17.5	53.4
2250	HZ 1685	Agrisure Vipitera 3110	Horizon Seeds	147	21.5	52.6	116	19.5	52.7
2250	MZ 1544DBR	VT2P	Maizex Seeds	152	22.2	49.2	131	16.0	52.1
2250	TH6079 VT2P	VT2P	Thunder Seed	153	22.7	50.1	124	18.7	49.9
2250	CP1725RR	RR	WinField United Canada	132	21.8	51.4	128	15.9	52.9
2275	DKC29-89RIB	VT2P	Bayer Crop Science	166	23.1	50.1	141	16.3	50.3
2275	P7940AM	YGCB/HX1/LL/RR2	Corteva Agriscience	147	21.7	50.8	124	17.1	52.2
2275	P7958AM	YGCB/HX1/LL/RR2	Corteva Agriscience	147	21.7	52.9	130	17.9	51.8
2275	PS 2333RR	RR2	DLF Pickseed	169	26.9	51.0	124	20.9	52.4
2300	MZ 1688DBR	VT2P	Maizex Seeds	135	24.5	50.1	136	17.1	50.9
2300	PV 61180RIB	VT2P	Nutrien Ag Solutions	160	22.5	51.0	129	17.2	49.4
2300	A4646G2 RIB	VT2P	PRIDE Seeds	135	21.5	50.3	116	16.3	51.4
2300	CP2123VT2P/RIB	VT2P	WinField United Canada	157	19.4	52.5	138	15.6	51.1

CHU ¹	Hybrid	Technology/ Genetic Traits ²	Distributor	MacGregor			St. Pierre		
				Yield (bu/ac)	Moisture (%)	BusheL Wt (lbs/bu)	Yield (bu/ac)	Moisture (%)	BusheL Wt (lbs/bu)
2350	HZ 1912	Agrisure 3120 EZR	Horizon Seeds	140	26.6	49.6	121	19.8	51.2
2350	191	VT2PRIB	NorthStar Genetics	142	25.4	48.2	140	18.4	47.1
2375	CP2180VT2P/RIB	VT2P	WinField United Canada	143	23.9	48.7	131	17.6	49.1
2400	DKC33-78RIB	VT2P	Bayer Crop Science	135	23.1	49.9	131	17.9	50.8
2400	P8234AM	YGCB/HX1/LL/RR2	Corteva Agriscience	142	22.8	49.5	127	18.6	49.3
2400	255	VT2PRIB	NorthStar Genetics	143	24.9	49.9	154	19.1	50.5
2400	A4939G2 RIB	VT2P	PRIDE Seeds	132	21.1	49.9	122	16.4	51.7
2425	DKC31-85RIB	VT2P	Bayer Crop Science	186	22.7	48.5	150	17.7	50.0
2425	P8352AM	YGCB/HX1/LL/RR2	Corteva Agriscience	153	27.3	46.8	131	17.4	49.9
2425	TH6182 VT2P	VT2P	Thunder Seed	154	23.0	49.7	146	18.3	50.1
2425	TH6982 VT2P	VT2P	Thunder Seed	142	24.5	50.4	122	18.8	50.2
2450	P8407AM	YGCB/HX1/LL/RR2	Corteva Agriscience	166	25.3	46.3	140	20.1	47.9
2450	CP2288VT2P/RIB	VT2P	WinField United Canada	147	22.9	50.0	127	20.7	47.8
2500	DKC33-37RIB	VT2P	Bayer Crop Science	155	26.0	48.8	147	19.3	50.2
2500	CP2315VT2P/RIB	VT2P	WinField United Canada	159	23.7	49.4	146	21.4	48.0
2550	CP2417VT2P/RIB	VT2P	WinField United Canada	121	22.2	50.3	141	17.3	51.4
2625	CP2587VT2P/RIB	VT2P	WinField United Canada	159	24.8	48.9	131	21.0	48.3
2650	CP2790VT2P/RIB	VT2P	WinField United Canada	156	26.7	48.2	150	20.2	47.3
2675	CP2845VT2P/RIB	VT2P	WinField United Canada	158	28.5	47.7	133	22.0	46.2
2675	CP2851VT2P/RIB	VT2P	WinField United Canada	142	27.6	46.7	132	23.4	45.8
2700	CP2965VT2P/RIB	VT2P	WinField United Canada	136	28.4	47.4	128	24.2	46.1
Site Average				147	22.8	50.8	133	17.8	51.5
CV %				9.01	5.63	2.68	8.27	5.78	2.45
Sign Diff				Yes	Yes	Yes	Yes	Yes	Yes
LSD (0.05)				21	2.1	2.2	18	1.7	2.0
Planting Date				16-May			18-May		
Harvest Date				10-Oct			15-Oct		

1 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 is suitable for your growing region.

2 The Canadian Seed Trade Association (CSTA) website provides a database for corn hybrids available in Canada, <https://seedinnovation.ca/corn-hybrids-database>. Information includes technology brand name and refuge requirements.



DIFFERENT BY DESIGN

Proven® Seed has always had a different perspective on corn. Every one of our hybrids is selected for Western Canada to work with your field's unique conditions. Whether you need early maturity, fast dry down, silage quality or defensive trait protection, there's a specific high yielding hybrid that's perfect for your farm. Proven Seed corn is only available at your local Nutrien Ag Solutions retail. **Learn more at ProvenSeed.ca/corn**



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GRAIN CORN — LONG SEASON

Comments:

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Yields are corrected to 15.5% moisture content.

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CHU ¹	Hybrid	Technology/ Genetic Traits ²	Distributor	Carman			Rosebank		
				Yield (bu/ac)	Moisture (%)	BusheL Wt (lbs/bu)	Yield (bu/ac)	Moisture (%)	BusheL Wt (lbs/bu)
2000	P7005AM	YGCB/HX1/LL/RR2	Corteva Agriscience	141	14.5	57.8	169	20.4	52.2
2050	P7202AM	YGCB/HX1/LL/RR2	Corteva Agriscience	177	15.8	52.8	181	22.0	50.9
2050	P7211AM	YGCB/HX1/LL/RR2	Corteva Agriscience	145	16.3	54.7	190	22.5	49.6
2100	P7417R	RR2	Corteva Agriscience	168	15.8	54.6	190	21.2	49.9
2100	P7455R	RR2	Corteva Agriscience	151	17.5	56.5	168	23.8	51.4
2125	P7417AM	YGCB/HX1/LL/RR2	Corteva Agriscience	164	16.4	54.9	187	21.8	50.1
2150	DKC26-40RIB	VT2P	Bayer Crop Science	168	18.8	57.1	197	28.1	50.7
2150	P7527AM	YGCB/HX1/LL/RR2	Corteva Agriscience	190	18.3	53.5	202	25.3	50.0
2175	PV 61276RIB	VT2P	Nutrien Ag Solutions	139	18.6	55.2	192	26.9	50.3
2200	EXP77-20	VT2P	Bayer Crop Science	163	20.4	54.0	205	30.2	49.6
2200	P7861R	RR2	Corteva Agriscience	174	17.9	52.9	209	25.5	48.3
2200	XP20076G2	VT2P	PRIDE Seeds	177	17.4	57.4	203	26.9	51.9
2200	TH6977 VT2P	VT2P	Thunder Seed	182	19.9	53.2	202	27.4	48.9
2250	P7861AM	YGCB/HX1/LL/RR2	Corteva Agriscience	181	19.6	52.9	223	28.0	49.0
2250	Taber	3010	Greenfield Genetics	152	19.2	55.8	186	29.5	51.3
2250	HZ 1685	Agrisure Viptera 3110	Horizon Seeds	176	20.0	55.2	210	30.9	50.2
2250	MZ 1544DBR	VT2P	Maizex Seeds	206	15.5	54.3	221	27.7	48.4
2250	TH6079 VT2P	VT2P	Thunder Seed	165	19.3	52.9	202	28.7	48.7
2275	DKC29-89RIB	VT2P	Bayer Crop Science	193	17.5	52.8	220	26.9	49.0
2275	P7940AM	YGCB/HX1/LL/RR2	Corteva Agriscience	175	18.2	53.8	199	26.8	49.8
2275	P7958AM	YGCB/HX1/LL/RR2	Corteva Agriscience	180	18.1	55.1	194	26.9	49.9
2275	PS 2333RR	RR2	DLF Pickseed	171	24.3	53.2	202	34.8	49.4
2300	MZ 1688DBR	VT2P	Maizex Seeds	181	18.4	53.5	192	27.5	49.4
2300	MZ 1624DBR	VT2P	Maizex Seeds	168	19.0	54.6	196	28.2	49.4
2300	E49K32 R	VT2P	Maizex Seeds	172	18.7	54.1	224	30.6	48.8
2300	PV 61180RIB	VT2P	Nutrien Ag Solutions	166	19.6	51.4	216	28.3	48.9
2300	A4646G2 RIB	VT2P	PRIDE Seeds	189	16.1	54.8	192	25.8	49.7
2350	HZ 1912	Agrisure 3120 EZR	Horizon Seeds	177	20.3	54.8	211	29.1	51.0
2350	191	VT2PRIB	NorthStar Genetics	203	19.1	52.3	206	29.8	47.7
2350	TH6081 3220	3220	Thunder Seed	162	20.5	53.7	187	29.7	50.5
2375	TH7681 VT2P	VT2P	Thunder Seed	187	16.6	54.5	206	28.1	49.2
2375	CP2180VT2P/RIB	VT2P	WinField United Canada	183	17.1	53.5	213	28.1	47.6
2400	DKC33-78RIB	VT2P	Bayer Crop Science	178	19.4	53.0	200	28.1	49.5
2400	P8234AM	YGCB/HX1/LL/RR2	Corteva Agriscience	190	20.2	52.2	196	28.2	47.8
2400	255	VT2PRIB	NorthStar Genetics	184	21.9	51.9	214	30.4	48.2
2400	PV 62282RIB	VT2P	Nutrien Ag Solutions	182	19.9	52.8	202	28.8	49.3
2400	A4939G2 RIB	VT2P	PRIDE Seeds	165	17.0	54.0	210	29.0	48.9
2425	DKC31-85RIB	VT2P	Bayer Crop Science	204	17.6	53.1	227	28.2	47.6
2425	P8352AM	YGCB/HX1/LL/RR2	Corteva Agriscience	189	22.1	50.5	214	30.4	46.9
2425	TH6182 VT2P	VT2P	Thunder Seed	183	19.0	52.5	197	30.1	47.9
2425	TH6982 VT2P	VT2P	Thunder Seed	176	20.0	53.2	195	30.5	48.9
2450	P8407AM	YGCB/HX1/LL/RR2	Corteva Agriscience	232	22.6	50.4	232	32.0	45.8
2450	HZ 2220	Agrisure 3010	Horizon Seeds	201	21.8	52.3	196	32.1	48.2
2450	HZ 2534	Agrisure Viptera3220 EZR	Horizon Seeds	170	24.1	49.2	203	37.0	49.1
2450	E52V92 R	VT2P	Maizex Seeds	192	20.2	53.4	211	28.4	49.3
2450	CP2288VT2P/RIB	VT2P	WinField United Canada	193	20.9	53.1	208	29.8	49.6
2500	DKC33-37RIB	VT2P	Bayer Crop Science	202	20.3	53.4	219	30.3	48.6
2500	PV 62384RIB	VT2P	Nutrien Ag Solutions	190	20.1	52.5	232	29.6	49.0
2500	CP2315VT2P/RIB	VT2P	WinField United Canada	208	22.3	52.0	213	31.8	48.3
2550	PV 62485RIB	VT2P	Nutrien Ag Solutions	197	20.5	50.7	216	31.0	47.5
2550	TH6185 VT2P	VT2P	Thunder Seed	204	21.2	52.0	230	31.1	47.9

CHU ¹	Hybrid	Technology/ Genetic Traits ²	Distributor	Carman			Rosebank		
				Yield (bu/ac)	Moisture (%)	BusheL Wt (lbs/bu)	Yield (bu/ac)	Moisture (%)	BusheL Wt (lbs/bu)
2550	CP2417VT2P/RIB	VT2P	WinField United Canada	190	17.1	53.2	202	29.0	48.8
2575	A5225G2 RIB	VT2P	PRIDE Seeds	195	22.3	52.1	208	30.8	49.4
2625	CP2587VT2P/RIB	VT2P	WinField United Canada	175	21.7	52.3	199	31.8	48.3
2650	CP2790VT2P/RIB	VT2P	WinField United Canada	207	21.0	51.4	227	32.5	48.5
2675	CP2845VT2P/RIB	VT2P	WinField United Canada	219	22.4	54.3	222	33.3	47.2
2675	CP2851VT2P/RIB	VT2P	WinField United Canada	205	21.2	51.6	211	33.1	47.4
2700	CP2965VT2P/RIB	VT2P	WinField United Canada	165	23.7	50.5	209	35.4	48.4
Site Average				181	19.5	53.3	205	28.9	49.0
CV %				7.05	4.19	2.84	4.52	2.87	0.97
Sign Diff				Yes	Yes	Yes	Yes	Yes	Yes
LSD (0.05)				21	1.3	2.4	15	1.3	0.8
Planting Date				20-May			20-May		
Harvest Date				13-Oct			8-Oct		

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INDUSTRIAL HEMP

Comments:

A licence from Health Canada is required to grow Industrial Hemp.

The requirement for THC testing for most varieties has been eliminated. THC testing remains a requirement for cultivars of pedigreed seed.

As per the Industrial Hemp Regulations, industrial hemp varieties must be approved for commercial cultivation under licence for the current crop year. Please refer to Health Canada's "List of Approved Cultivars for the 2021 Growing Season" report prior to seeding.

Please note that the Industrial Hemp Regulations requires that all seed planted for the production of industrial hemp in Canada must be of pedigreed status (Certified or better).

For more information, please refer to Health Canada's website at www.healthcanada.gc.ca/hemp.

CHTA hemp trials use a 20% CV cutoff value for data acceptance.

Variety Descriptions

Variety	Yield %	Site Years	End Use	2020 Yield: % of CRS-1 at location			
	Check	Tested	Purpose	Arborg	Melita	Roblin	
Petera	59	3	Fibre	50	64	59	
Altair®	88	3	Dual	90	82	102	
CFX-2	95	2	Dual	—	85	77	
CRS-1	100	3	Dual	100	100	100	
Vega	98	3	Dual	113	92	95	
Grandi®	122	2	Grain	—	101	121	
Katani®	119	2	Grain	—	102	109	
Piccolo	104	2	Grain	—	88	98	
X-59®	123	2	Grain	—	82	172	
Experimental lines tested/proposed for registration in Canada							
NWG 2730	46	2	Dual	—	37	50	
CHECK CHARACTERISTICS				CRS-1 (lb/acre)	641	1475	599
CRS-1	905	3		CV %	9.1	9.3	15.3
	lbs/acre	site years		LSD %	13	11	22
				Sign Diff	Yes	Yes	Yes
				Seeding Date	15-May	12-May	22-May
				Harvest Date	08-Sep	25-Aug	17-Sep