

# Forage Crops

## Key to 2023 Yield or Quality Tables

Yields derived over 2 or more growing seasons are the best indicator of variety performance. Use single site year data with caution.

CV % = Coefficient of Variation. A measure of random variation in a trial. A low CV is desirable.

LSD = Least Significant Difference. Varieties must differ by the LSD to be considered significantly different from one another.

Sig Diff = Significant Difference. Indicates if a real difference exists between varieties at an individual site.

Ⓒ Indicates a variety that is protected by Plant Breeder's Rights legislation that complies with UPOV 1978.

Ⓓ Indicates a variety that is protected by, or has been applied for and is pending, Plant Breeder's Rights legislation that complies with UPOV 1991.

## Forage Variety Registration Changes

Amendments to the Seeds Act, Seeds Regulations are now in effect that streamline the variety registration process for forage varieties.

Forage crops are moved to Part III of Schedule III of the Seeds Regulations. Recommending Committees are no longer required for the registration of forage crop varieties, since the testing and merit requirements are removed. Registration still requires a standard application package to enable the CFIA to continue to protect health and safety, prevent fraud, and facilitate seed certification.

# Manitoba Agriculture Variety Guide

FORAGE CROPS

## FORAGE ADAPTATION & COMPARISON GUIDE

### LEGUMES

Forage	Primary Use	Longevity	Winter Hardiness	Tolerance to:			Preferred Climate and Growing Conditions
				Drought	Flooding	Salinity	
Alfalfa	Hay & Pasture	Long	Good	Good	Low	Low to Moderate	Widely adapted to most Manitoba soils but will not tolerate areas that have periodic flooding.
Alsike Clover	Hay & Pasture	Short	Fair	Poor	Moderate	Low	Low-lying moist areas.
Birdsfoot Trefoil	Hay & Pasture	Long	Good	Moderate	High	Low to Moderate	Moist areas.
Cicer Milkvetch	Pasture	Long	Good	Moderate to High	Low	Moderate	Widely adapted but exhibits its habit best on more coarse textured soils.
Kura Clover	Pasture	Long	Good	Moderate	Moderate	Unknown	Tolerates low fertility and soil acidity, wet soils and some flooding.
Red Clover	Hay & Pasture	Short	Poor	Low	High	Low	Best suited to humid areas with moderate temperatures.
Sainfoin	Pasture	Long	Fair	High	Low	Low	Best on brown and dark brown soil areas. In very dry areas it yields poorly. Does well on thin gravelly soils.
Sweet Clover	Hay & Pasture	Short to Long	Good	Poor	Low to Moderate	Low	Prefers well drained silt loams to clay soils that have a consistent supply of moisture.
White Clover	Hay & Pasture	2-years	Fair	Moderate to High	Low	Moderate	Especially productive on fertile soils.

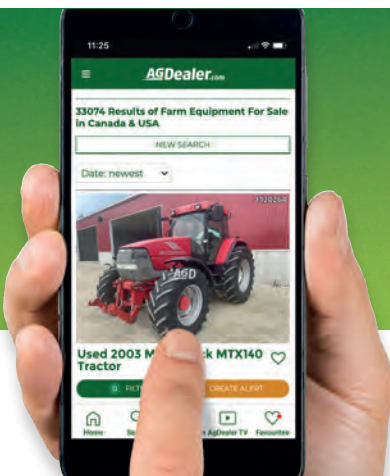
### TAME GRASSES

Altai Wild Ryegrass	Pasture	Long	Excellent	High	Low	Very High	Loam & clay soils best, but grows on a wide range of soils. Doesn't appear adapted to Manitoba conditions.
Annual (Italian) Ryegrass	Hay & Pasture	Short annual 1 year	Poor	Low	High	Low	Produces best on soils of medium to high fertility and grows best with adequate moisture.
Creeping Foxtail	Pasture	Long	Good	Low	High	Moderate	Adapted to areas where reed canarygrass grows well and soil moisture is continually available.
Creeping Red Fescue	Pasture Lawn	Long	Excellent	Moderate	Moderate	Low	Does best in high rainfall areas. Will grow in wide range of soil types.
Crested Wheatgrass	Hay & Pasture	Long	Excellent	Moderate to High	Low	Low to Moderate	Adapted to dry areas with good soils but will also establish on lighter soils.
Dahurian Wild Ryegrass	Pasture	Short	Good	Moderate	Low	High	Adapted to all soil zones.
Intermediate Wheatgrass	Hay & Pasture	Short to Medium	Good	Moderate to High	Low	Low	Well drained soils with ample moisture.

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**(continued) FORAGE ADAPTATION & COMPARISON GUIDE – Tame Grasses**

Forage	Use	Longevity	Winter Hardiness	Tolerance to:			Preferred Climate and Growing Conditions
				Drought	Flooding	Salinity	
Kentucky Blue Grass	Pasture Lawn	Long	Excellent	Moderate	Moderate	Low	Prefers cool and humid. Grows on most soils.
Meadow Bromegrass	Hay & Pasture	Long	Good	High	Low	Low	Grows well on most soils where Smooth Brome does well.
Meadow Fescue	Pasture	Short - Medium	Good	Moderate	High	Low to Moderate	Prefers soil with good moisture and good drainage.
Meadow Foxtail	Pasture	Long	Good	Low	High	Low	Prefers cool moist conditions. High water table.
Orchard grass	Hay & Pasture	Short	Fair	Moderate	Low to Moderate	Low	Prefers moist conditions. Sandy soils are too dry for good growth unless in high rainfall area.
Perennial Ryegrass	Hay & Pasture	Short	Poor	Low	Low	Low	Needs high precipitation and fertility for high yields. Adapted to a wide range of soils.
Pubescent Wheatgrass	Hay & Pasture	Medium	Good	Moderate to High	Low	Low to Moderate	Widely adaptable with respect to precipitation, temperature, elevation, and low fertility soil.
Russian Wild Ryegrass	Pasture	Long	Excellent	Very High	Low	Very High	Can be grown on a wide range of soils. Most productive on fertile loams.
Smooth Bromegrass	Hay & Pasture	Long	Excellent	Moderate	Moderate	Low to Moderate	Well adapted to all soils in Manitoba.
Tall Fescue	Hay & Pasture	Medium	Good	Moderate	Moderate to High	High	Variety of soils. Does well on wet, poorly drained soils.
Tall Wheatgrass	Hay & Pasture	Medium	Excellent	Low	High	High	Adapted to saline and imperfectly drained alkali soils.
Timothy	Hay & Pasture	Medium	Good	Low	High	Low	Cool moist areas with good drainage.

**NATIVE GRASSES**

Awned Wheatgrass	Hay & Pasture	Medium	Good	Moderate	Moderate	Low to Moderate	Prefers moderately sandy to loam soils with good moisture and drainage. Found in moist flats, meadows and low growing bushes.
Big Bluestem	Pasture	Long	Good	Low to Moderate	Moderate	Low to Moderate	Grows under a wide range of conditions.
Green Needlegrass	Pasture	Long	Good	High	Moderate	Low to Moderate	Performs best on medium to heavy textured soils. Prefers moist sites with good drainage.
Little Bluestem	Pasture	Long	Good	High	Low	Moderate	Sandy, gravelly soils with shallow water table or where snow accumulates. Common on prairie upland.
Northern Wheatgrass	Pasture	Long	Good	Very High	Moderate	Moderate	Prefers medium to coarse textured soil.
Prairie Cord Grass	Hay & Riparian	Long	Good	Low to Moderate	High	Low to Moderate	Wide range of soils (sand to clay) - does best on seasonally dry areas, marsh edges, wet meadows, drainageways.
Reed Canarygrass	Hay & Pasture	Long	Good	Moderate	Very High	Low	Moist cool climate. Poorly drained areas subject to temporary flooding.
Side Oats Grama	Hay & Pasture	Long	Good	Moderate to High	Low	Low to Moderate	Adapted to a range of soils. Performs best on fine textured soils. Found on rocky ridges, open grasslands and hillsides.
Slender Wheatgrass	Hay & Pasture	Medium	Good	Moderate	Moderate	High	Widely adapted - prefers sandy loams.
Switch grass	Pasture	Medium	Fair	Low	Moderate	Moderate	It has potential for good summer pasture when enough moisture. Grows best on loam and sandy loams.
Western Wheatgrass	Hay & Pasture	Long	Excellent	High	Moderate to High	High	Widely adapted - prefers heavy moderately alkaline soil. Tolerates periodic flooding.

Source: Manitoba Agriculture – Forage Adaptation & Comparison Guide

# SILAGE CORN

## Comments:

The silage corn hybrid trials were tested and the data released by the Manitoba Corn Committee (MCC)

The data presented here is for one year only. Use with caution.

All hybrids were evaluated at a target plant population of 32,000 plants per acre.

CHU <sup>1</sup> Rating	Hybrid	Trait <sup>2</sup>	Elm Creek							Milk/Acre <sup>4</sup> (lbs/ac)	Beef/Acre <sup>5</sup> (lbs/ac)
			65% Yield (Mt/ac)	Moisture <sup>3</sup> (%)	50% Silk (days)	TDN (%)	ADF (%)	NDF (%)			
2025	CX23072A/VT2P	6	19.4	53.4	55	72.8	24.2	42.2	23213	1808	
2100	CP1440VT2P/RIB	6	22.3	56.1	60	71.1	25.7	44.6	27145	2040	
2100	CSX22077A/RR	4	25.0	62.5	61	71.9	25.0	43.7	30143	2310	
2150	913S	4	26.0	57.4	62	74.0	23.0	43.4	31362	2469	
2150	BY Guernsey VT2P RIB	6	26.6	59.9	60	73.7	23.3	42.1	30892	2517	
2200	AS1018G2 EDF	6	23.3	60.5	61	74.1	23.0	41.5	27966	2217	
2200	DLF 2320RR	4	23.4	58.0	59	77.6	19.7	40.5	27975	2324	
2200	PV 61177SRR	4	23.7	58.3	62	76.4	20.8	38.4	28771	2326	
2200	Riel	14	25.0	62.6	61	72.4	24.5	47.1	29150	2327	
2250	BY Brava RR2	4	25.2	61.9	62	71.9	25.0	48.1	29870	2321	
2250	HZ 1685	19	23.1	58.3	63	73.3	23.8	41.9	27666	2170	
2250	MS 8022R	4	27.9	62.9	60	73.9	23.2	41.4	33548	2647	
2275	924S	4	24.8	65.7	67	68.9	27.9	52.7	31771	2194	
2275	DLF 2333RR	4	25.2	61.0	61	78.0	19.4	36.3	31001	2523	
2300	DLF 2334VT2P RIB	6	26.1	62.7	62	77.9	19.4	36.9	31398	2609	
2300	TH6180 VT2P	6	23.2	60.4	57	73.2	23.8	42.2	28525	2176	
2300	X22080A/VT2P	6	19.9	62.6	63	69.0	27.7	50.5	24438	1766	
2325	928S	4	22.2	65.4	66	70.1	26.8	47.7	27091	1997	
2325	DKC30-63RIB	6	23.2	59.8	61	73.9	23.2	41.1	28399	2202	
2325	DLF 2495RR	4	28.3	59.7	62	74.0	23.1	40.8	35638	2687	
2350	AS1028G2 EDF	6	27.9	55.8	64	77.0	20.2	42.3	34202	2756	
2350	HZ 1831	19	23.2	62.9	63	69.7	27.1	50.7	27706	2073	
2350	HZ 675	19	22.4	58.8	64	69.5	27.3	50.4	26824	2001	
2350	NK7837-V	27	23.5	60.8	62	72.6	24.4	43.7	28604	2186	
2350	NS EXP83T	6	25.2	57.6	59	75.7	21.5	43.1	31181	2448	
2350	PV 62181SRIB	6	22.8	62.7	59	74.7	22.5	44.3	26571	2186	
2350	BYM2234003BV	6	23.7	58.1	60	80.8	16.7	32.4	29217	2457	
2400	932S	4	24.7	65.3	70	72.5	24.5	47.4	29784	2301	
2400	AS1047RR EDF	4	27.7	63.7	63	71.0	25.9	48.7	34078	2527	
2400	NK8005-V	27	24.7	60.2	62	79.5	17.9	34.5	30205	2524	
2425	DKC31-85RIB	6	20.6	59.5	61	74.0	23.1	40.0	24480	1956	
2425	NS EXP90S	4	25.6	67.2	74	71.3	25.6	46.9	29970	2341	
2450	BY Belmont RR2	4	23.4	60.3	64	72.9	24.1	43.1	28189	2192	
2450	CP2288VT2P/RIB	6	22.5	60.4	62	78.3	19.0	35.5	27228	2261	
2450	DLF ExSeed LF RR	4	26.1	66.7	68	72.3	24.7	43.9	31716	2423	
2450	HZ 2220	19	26.9	61.7	64	72.7	24.3	46.9	32538	2504	
2450	MS 8270R	4	31.2	59.2	63	74.7	22.4	40.5	38296	2987	
2475	PV 62683SRR	4	27.0	62.1	60	77.4	19.8	39.8	33070	2685	
2475	TH8483 DV	34	25.2	57.2	62	68.4	28.3	48.6	31268	2212	
2500	DKC33-37RIB	6	23.0	60.1	63	75.7	21.4	38.8	28198	2232	
2500	Maxx	14	25.3	64.6	66	71.3	25.6	46.0	30695	2313	
2525	DLF ExAmine LFF RR	4	22.9	62.2	66	75.1	22.1	45.6	25342	2205	
2525	EXP8223-AA	28	24.3	63.0	64	77.7	19.6	40.9	29826	2422	
2525	X22084A/VT2P	6	22.4	62.5	61	73.6	23.4	41.8	27332	2120	
2550	EXP084-23	6	25.7	60.0	64	72.6	24.4	43.3	31372	2397	
2550	HX 2511	14	22.9	67.3	71	69.2	27.6	48.2	27676	2029	
2550	MS 8632R	4	24.3	63.7	65	80.7	16.8	33.2	30743	2520	
2550	NK8204-V	27	22.7	58.3	64	74.4	22.7	40.0	27200	2165	
2550	TH6185 VT2P	6	22.4	60.5	63	68.4	28.3	49.0	27185	1967	
2600	DKC36-48RIB	6	23.5	61.7	64	76.3	21.0	38.3	28690	2296	
2600	HZ 3050	33	26.3	65.5	68	70.7	26.2	50.3	30523	2389	
2625	CP2585VT2P/RIB	6	23.2	65.5	65	74.3	22.8	39.7	27847	2212	
2625	CSX22086A/RR	4	24.9	63.3	65	71.7	25.2	44.9	29742	2289	
2625	EXP8523-AA	28	25.8	64.2	67	76.8	20.5	38.8	30997	2544	
2650	A5686G2 RIB	6	30.4	58.8	63	70.3	26.6	45.8	36660	2741	
2650	CP2790VT2P/RIB	6	21.4	64.8	64	71.8	25.1	44.0	25981	1968	

Yields are corrected to 65% moisture.

The Manitoba Corn Committee publishes the annual results along with more detailed lab analysis on their website at <https://www.mbcropalliance.ca>.

CHU <sup>1</sup> Rating	Hybrid	Trait <sup>2</sup>	St Pierre							Milk/Acre <sup>4</sup> (lbs/ac)	Beef/Acre <sup>5</sup> (lbs/ac)
			65% Yield (Mt/ac)	Moisture <sup>3</sup> (%)	50% Silk (days)	TDN (%)	ADF (%)	NDF (%)			
2025	CX23072A/VT2P	6	14.0	38.8	61	71.6	31.7	53.5	16814	1290	
2100	CP1440VT2P/RIB	6	13.4	57.7	65	67.9	25.1	44.8	15422	1165	
2100	CSX22077A/RR	4	13.6	59.1	65	65.9	19.1	37.2	15373	1151	
2150	913S	4	14.9	55.2	66	67.4	22.5	41.5	17399	1291	
2150	BY Guernsey VT2P RIB	6	13.6	56.1	63	66.6	22.4	41.3	15540	1164	
2200	AS1018G2 EDF	6	13.8	54.1	65	65.0	20.1	38.4	15032	1152	
2200	DLF 2320RR	4	11.9	53.3	63	67.9	15.9	33.2	14214	1034	
2200	PV 61177SRR	4	14.2	59.9	64	66.5	23.6	43.2	16098	1213	
2200	Riel	14	11.2	60.8	64	67.8	28.7	50.7	12509	974	
2250	BY Brava RR2	4	13.4	60.3	65	67.9	27.7	48.5	15415	1170	
2250	HZ 1685	19	13.7	59.6	67	65.1	25.7	45.8	14378	1148	
2250	MS 8022R	4	15.8	58.6	63	64.7	24.2	43.5	16766	1315	
2275	924S	4	12.3	64.4	72	67.3	27.5	48.8	13503	1061	
2275	DLF 2333RR	4	12.9	57.5	64	69.3	28.0	49.3	15063	1148	
2300	DLF 2334VT2P RIB	6	15.4	58.2	64	66.1	25.1	45.4	17150	1311	
2300	TH6180 VT2P	6	10.8	54.4	63	65.8	23.9	42.7	11767	907	
2300	X22080A/VT2P	6	13.8	59.5	64	66.8	22.5	42.4	15791	1181	
2325	928S	4	10.9	64.5	70	64.6	27.1	51.7	11061	906	
2325	DKC30-63RIB	6	12.3	58.4	64	65.6	23.0	42.0	13566	1038	
2325	DLF 2495RR	4	14.9	58.1	65	68.2	27.0	47.0	17300	1303	
2350	AS1028G2 EDF	6	14.3	54.6	66	72.6	34.1	56.8	17040	1334	
2350	HZ 1831	19	12.8	59.6	67	66.4	24.2	44.5	14386	1092	
2350	HZ 675	19	14.1	59.6	67	66.4	24.2	44.0	15763	1198	
2350	NK7837-V	27	12.3	52.6	65	67.3	25.4	45.9	13933	1059	
2350	NS EXP83T	6	14.7	58.6	63	68.6	32.7	54.9	15817	1289	
2350	PV 62181SRIB	6	14.6	55.7	62	67.3	25.4	45.5	16565	1258	
2350	BYM2234003BV	6	15.2	54.5	65	66.7	25.0	44.3	17204	1296	
2400	932S	4	12.7	63.2	73	71.8	31.2	54.0	15288	1171	
2400	AS1047RR EDF	4	13.9	66.3	67	66.6	27.4	49.0	15100	1184	
2400	NK8005-V	27	12.7	57.1	67	66.5	22.6	42.7	14329	1083	
2425	DKC31-85RIB	6	15.2	52.9	64	65.6	22.3	40.9	16892	1278	
2425	NS EXP90S	4	11.1	70.3	77	64.6	28.5	49.9	11302	917	
2450	BY Belmont RR2	4	13.6	59.6	67	65.1	22.3	41.7	14843	1135	
2450	CP2288VT2P/RIB	6	13.2	60.4	67	66.7	13.1	29.7	15289	1131	
2450	DLF ExSeed LF RR	4	13.5	64.5	72	66.6	26.4	47.6	14980	1156	
2450	HZ 2220	19	14.8	58.7	66	70.0	33.0	54.8	17019	1332	
2450	MS 8270R	4	14.6	59.8	65	66.4	26.3	46.7	16077	1239	
2475	PV 62683SRR	4	16.1	60.5	63	67.7	25.4	45.6	18315	1397	
2475	TH8483 DV	34	14.7	55.9	65	68.7	29.1	50.7	16677	1293	
2500	DKC33-37RIB	6	13.8	59.5	66	65.9	20.8	39.6	15552	1169	
2500	Maxx	14	12.9	66.3	72	64.9	26.2	46.6	13647	1073	
2525	DLF ExAmine LFF RR	4	11.3	63.0	70	66.9	29.6	52.7	12127	966	
2525	EXP8223-AA	28	12.4	60.1	67	69.0	28.4	49.5	14361	1100	
2525	X22084A/VT2P	6	12.5	59.3	66	69.4	27.9	48.2	14605	1117	
2550	EXP084-23	6	13.4	59.2	67	67.6	27.8	49.2	15165	1164	
2550	HX 2511	14	13.7	65.0	74	65.8	27.9	47.8	14644	1158	
2550	MS 8632R	4	14.4	65.2	70	65.8	23.6	43.4	15806	1215	
2550	NK8204-V	27	12.1	58.8	69	66.6	24.2	44.6	13584	1029	
2550	TH6185 VT2P	6	13.6	61.5	66	68.7	26.6	47.0	15867	1199	
2600	DKC36-48RIB	6	12.4	62.0	68	67.3	31.4	53.6	13440	1068	
2600	HZ 3050	33	13.7	66.0	75	66.3	27.3	49.1	14994	1164	
2625	CP2585VT2P/RIB	6	13.5	64.5	68	65.1	24.4	46.6	14385	1131	
2625	CSX22086A/RR	4	13.0	64.8	69	70.3	31.3	51.8	14979	1176	
2625	EXP8523-AA	28	14.7	63.0	69	65.9	24.6	45.0	16409	1247	
2650	A5686G2 RIB	6	13.4	64.6	67	67.6	26.8	47.2	15013	1159	
2650	CP2790VT2P/RIB	6	13.3	63.1	67	67.0	23.8	41.8	15197	1144	

(continued)

**SILAGE CORN (continued)**

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			Elm Creek							
CHU' Rating	Hybrid	Trait <sup>2</sup>	65% Yield (Mt/ac)	Moisture <sup>3</sup> (%)	50% Silk (days)	TDN (%)	ADF (%)	NDF (%)	Milk/Acre <sup>4</sup> (lbs/ac)	Beef/Acre <sup>5</sup> (lbs/ac)
2650	HZ 878	27	28.2	68.3	68	76.5	20.7	37.4	33684	2769
2650	NK8519-DV	34	27.0	66.3	67	72.1	24.9	47.5	31341	2495
2650	NK8618-D	33	23.1	63.6	65	67.3	29.3	55.0	28257	1999
2675	CP2845VT2PRIB	6	23.4	64.6	63	71.6	25.4	44.0	28637	2144
2700	HZ 3386	33	25.5	61.7	66	70.4	26.4	47.1	30945	2300
2700	Prime	18, 33, 34	24.9	67.1	69	70.8	26.1	46.0	30646	2259
2725	CP2972SS/RIB	8	25.9	63.2	65	79.2	18.2	33.5	31434	2629
2725	DKC39-55RIB	6	26.3	60.7	65	74.2	22.8	41.1	31662	2501
2725	NK8920-D	33	24.1	66.8	67	73.0	24.0	45.4	28796	2257
2725	NK9023-DV	34	23.4	65.5	67	73.5	23.6	46.8	26710	2209
2750	Dalton	19, 33	24.9	67.7	66	70.6	26.3	49.8	30652	2256
2750	LFG 8755R	4	26.2	65.9	72	65.7	30.8	55.7	32391	2208
2750	NK9175-DV	34	24.3	67.3	68	77.6	19.7	36.0	29405	2417
<b>Mean</b>			24.4	61.3	63					
CV %			10.4	4.4	1.4					
LSD (0.05)			3.4	3.6	1					
Sig diff			Yes	Yes	Yes					
<b>Planting Date</b>			May 20							
<b>Harvest Date</b>			Sept 7							

			Arborg <sup>6</sup>							
CHU' Rating	Hybrid	Trait <sup>2</sup>	65% Yield (Mt/ac)	Moisture <sup>3</sup> (%)	50% Silk (days)	TDN (%)	ADF (%)	NDF (%)	Milk/Acre <sup>4</sup> (lbs/ac)	Beef/Acre <sup>5</sup> (lbs/ac)
1925	TH6370 VT2P	6	14.9	43.6	70	73.3	23.7	44.2	18187	1399
2000	MS 6960R	4	11.3	49.8	71	65.8	30.8	53.6	14191	954
2025	CX23072A/VT2P	6	13.6	60.3	76	74.7	22.4	41.8	16667	1305
2075	DKC21-36RIB	6	11.9	47.6	71	74.6	22.5	41.9	14338	1139
2075	EXP072-23	6	13.0	54.5	71	73.1	23.9	44.3	15667	1216
2100	CP1440VT2P/RIB	6	15.6	57.2	72	79.3	18.1	35.4	19328	1587
2100	CSX22077A/RR	4	15.0	56.6	73	72.8	24.2	44.2	18474	1400
2100	DKC24-06RIB	6	13.9	52.8	72	75.3	21.8	41.3	16951	1341
2100	PV 60273RIB	6	15.6	50.2	71	78.0	19.3	38.3	19083	1564
2100	Rustler	14	12.7	52.8	73	73.5	23.5	43.6	15404	1200
2150	913S	4	15.7	57.6	75	71.4	25.5	45.6	19143	1434
2150	MZ 1340DBR	6	13.4	49.9	71	77.7	19.6	37.9	16629	1337
2200	AS1018G2 EDF	6	17.6	48.5	71	75.8	21.4	41.2	21702	1712
2200	DLF 2320RR	4	13.2	53.2	72	73.0	24.0	43.5	16309	1232
2200	MS 7420R	4	13.5	48.5	71	67.3	29.3	51.7	16352	1164
2200	PV 61177SRR	4	14.3	57.6	73	75.5	21.7	40.6	17255	1382
2200	Riel	14	16.5	58.3	71	71.7	25.3	45.9	20531	1516
2225	TH6278 VT2P	6	15.2	56.4	72	78.4	19.0	36.7	18484	1529
2250	HZ 1685	19	14.4	59.6	75	73.2	23.8	43.6	17219	1350
2250	MS 8022R	4	17.1	59.0	72	75.0	22.2	41.8	21253	1648
2275	924S	4	15.9	64.3	81	75.4	21.8	41.4	18659	1542
2275	DLF 2333RR	4	16.0	58.1	71	75.0	22.1	41.2	19431	1536
2300	TH6180 VT2P	6	16.2	55.4	71	75.1	22.1	40.5	19825	1558
2300	X22080A/VT2P	6	12.6	61.2	79	72.2	24.8	44.3	15297	1162
2325	928S	4	15.4	64.3	80	69.1	27.7	50.3	17635	1369
2325	DLF 2495RR	4	17.6	60.8	73	73.9	23.1	42.5	22016	1669
2350	AS1028G2 EDF	6	17.4	54.6	76	73.4	23.6	43.3	21676	1635
2350	HZ 1831	19	13.8	60.1	75	75.2	21.9	43.0	16524	1328
2350	HZ 675	19	13.6	61.3	76	71.5	25.4	46.5	16326	1243
2350	NK7837-V	27	15.2	54.8	75	78.2	19.2	37.9	18594	1523
2400	A4705HMRR	4	14.8	60.7	70	72.6	24.4	44.1	18194	1382
2400	NK8005-V	27	16.5	56.2	74	76.7	20.5	38.5	20183	1624
2450	HZ 2220	19	15.0	61.3	76	72.2	24.7	45.2	18433	1394
2525	EXP8223-AA	28	12.4	42.2	70	76.5	20.8	39.7	15015	1216
2525	X22084A/VT2P	6	14.6	60.7	74	75.3	21.9	41.0	17655	1407
2550	NK8204-V	27	18.0	59.7	76	74.5	22.6	41.5	22103	1720
<b>Mean</b>			14.8	55.8	73					
CV %			11.72	4.85	1.97					
LSD (0.05)			2.4	3.7	2					
Sig diff			Yes	Yes	Yes					
<b>Planting Date</b>			May 15							
<b>Harvest Date</b>			Sept 22							

See footnotes 1-6 on facing page

CHU <sup>1</sup> Rating	Hybrid	Trait <sup>2</sup>	St Pierre							
			65% Yield (Mt/ac)	Moisture <sup>3</sup> (%)	50% Silk (days)	TDN (%)	ADF (%)	NDF (%)	Milk/Acre <sup>4</sup> (lbs/ac)	Beef/Acre <sup>5</sup> (lbs/ac)
2650	HZ 878	27	12.3	67.0	75	66.1	25.3	47.0	13572	1043
2650	NK8519-DV	34	11.0	66.5	74	63.6	26.1	46.4	11135	899
2650	NK8618-D	33	13.2	59.0	69	65.8	23.4	40.7	14633	1114
2675	CP2845VT2PRIB	6	15.4	60.1	67	66.9	27.0	47.8	17260	1323
2700	HZ 3386	33	14.2	66.0	75	67.7	28.2	48.4	15776	1234
2700	Prime	18, 33, 34	14.0	66.6	73	66.2	23.7	43.4	15577	1188
2725	CP2972SS/RIB	8	13.4	61.4	69	67.5	29.4	50.6	14889	1158
2725	DKC39-55RIB	6	13.4	63.6	69	65.8	28.4	50.9	14334	1129
2725	NK8920-D	33	13.0	64.3	71	67.5	26.5	47.2	14782	1124
2725	NK9023-DV	34	12.4	65.7	74	64.8	22.2	42.7	13308	1034
2750	Dalton	19, 33	11.9	61.9	71	66.2	23.7	43.4	13227	1009
2750	LFG 8755R	4	12.1	68.6	77	65.0	28.0	49.1	12672	1010
2750	NK9175-DV	34	13.4	66.4	72	67.5	31.2	54.3	14667	1161
<b>Mean</b>			13.4	60.0	67					
CV %			12.5	4.4	1.2					
LSD (0.05)			2.3	3.6	1					
Sig diff			Yes	Yes	Yes					
<b>Planting Date</b>			May 25							
<b>Harvest Date</b>			Sept 14							

- 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 suitable to your growing region.
- 2 See table below for explanation of codes for special genetic traits. Although the Manitoba Corn Committee believes that information contained in this report is accurate, growers are advised to consult dealers of the respective hybrids before making purchasing or management decisions. Seeds Canada provides a database for corn hybrids available in Canada at <https://seeds-canada.ca/corn-hybrid-database>. Information provided includes technology, brand name and refuge requirements.
- 3 Moisture content at harvest
- 4 Milk per Acre was calculated using MILK2006, a model developed by the University of Wisconsin Extension Service.
- 5 Beef per Acre was calculated on the assumption that one pound of beef is produced for every six pounds of TDN.
- 6 The Arborg site had frost on September 13. Temperature was approximately -2C for 3 hours.

### Explanation of Codes for Special Genetic Traits

Code	GM Traits
4	Roundup Ready Corn 2
6	VT Double PRO
8	SmartStax
14	Agrisure GT
18	Agrisure 3000 GT or Agrisure 3011
19	Agrisure GT/CB/LL or Agrisure 3010
27	Agrisure Viptera 3220
28	Agrisure Above
33	Duracade
34	Duracade Viptera

# ANNUAL FORAGE

The MCVET Annual Forage trials evaluated different crop types and varieties for forage yield and quality for livestock feed.

Annual crops are more moisture efficient than perennial forages such as alfalfa or timothy.

Both warm (sorghum, millet) and cool season crops were included in the trials. Warm season crops are more drought and heat tolerant than cool season crops.

Varieties were selected for their higher grain yield, taller growth, lodging resistance, smooth awns and better disease resistance.

Quality is highly dependent on plant maturity at harvest. For optimum quality: harvest barley at early-mid dough stage; oats & triticale at milk-early dough stage; peas at full pod formation; millet and sorghum at early heading.

## Variety Descriptions

Variety descriptions for wheat, barley and oat crop types can be found in the Cereal Crops section of SEED Manitoba 2024 page 22.

Field pea variety information can be found on page 86.

## TRITICALE

Variety	Days to Maturity (+/- Banjo)	Resistance Level:				
		Lodging	Stem Rust	Leaf Rust	Bunt	Fusarium
AC Alta	-1	G	R	R	R	—
AC Certa	-3	G	R	R	R	I
Banjo	100 days	G	R	R	R	—
Pronghorn	-4	G	R	R	R	I
SANDRO	-3	G	R	R	R	—

	Seed Color	Seed Size (seeds/lb)	Days to Head	Days to Maturity
<b>FOXTAIL MILLET</b>				
Yellow (Golden German)	Yellow	160-170,000	75-90	85-95
Red (Siberian)	Red	169-170,000	55-70	70-90
<b>PROSO MILLET</b>				
Green (Crown)	Gray/Green	70-90,000	50-60	85-90
Red (Cerise)	Red	70-90,000	50-60	85
Yellow (AC Prairie Gold)	Yellow	70-90,000	50-60	75
<b>SORGHUM</b>				
Forage Sorghum	—	—	—	85-90
Sorghum Sudangrass	—	—	—	80-85

Seed source for millet & sorghum Imperial Seed

Seed source for triticale Zeghers Seed

## Quality Comparisons

Crop	Variety	RFV (%) <sup>2</sup>					Average
		Arborg	Carberry	Carman	Melita	Roblin	
Oats	CDC Haymaker <sup>4</sup>	100	102	118	99	120	
Oats	CDC Arborg <sup>4</sup>	98	95	138	104	124	
Oats	CDC Endure <sup>4</sup>	102	99	145	105	137	
Oats	OT6036	109	98	131	105	114	
	<b>Oat Average</b>	<b>103</b>	<b>99</b>	<b>133</b>	<b>105</b>	<b>125</b>	<b>113</b>
Barley	AB Advantage <sup>4</sup>	138	151	176	166	168	
Barley	AB Tofield <sup>4</sup>	162	125	187	147	177	
Barley	CDC Renegade <sup>4</sup>	150	179	149	148	172	
	<b>Barley Average</b>	<b>150</b>	<b>152</b>	<b>171</b>	<b>154</b>	<b>172</b>	<b>160</b>
Peas/Barley	CDC Lewochko <sup>4</sup> - AB Advantage <sup>4</sup>	109	223	123	87	118	
Peas/Oats	CDC Lewochko <sup>4</sup> - CDC Arborg <sup>4</sup>	116	115	116	127	100	
	<b>Pea/cereal Average</b>	<b>113</b>	<b>169</b>	<b>120</b>	<b>107</b>	<b>109</b>	<b>123</b>
Spring Triticale	Pronghorn <sup>5</sup>	122	137	126	112	145	128
Proso Millet	Crown <sup>5</sup>	108	99	106	109	109	
Foxtail Millet	Siberian <sup>5</sup>	98	94	131	101	104	
	<b>Millet Average</b>	<b>103</b>	<b>97</b>	<b>119</b>	<b>105</b>	<b>107</b>	<b>106</b>
Sorghum sudangrass	common <sup>5</sup>	91	108	137	104	107	
Forage Sorghum	common <sup>5</sup>	97	115	156	119	—	
	<b>Sorghum Average</b>	<b>94</b>	<b>112</b>	<b>147</b>	<b>112</b>	<b>107</b>	<b>114</b>

1 Quality tests were done by wet chemistry and were a composite of the three plots/site.

2 Relative feed value (RFV)

3 Crude protein (CP)

4 Total Digestive Nutrients (TDN)

5 Due to lack of availability, common seed was used.



## Yield Comparisons

The 2023 annual forage trial combined all crops and varieties in one trial with three replicates per site.

Quality is highly dependent on plant maturity at harvest. Barley was harvested in mid dough stage; oats & triticale at milk- early dough stage; peas at early pod wrinkle; millet and sorghum at heading.

Crop	Variety	2023 Dry Matter Yield (tonnes/acre) <sup>1</sup>					Average
		Arborg	Carberry	Carman	Melita	Roblin	
Oats	CDC Haymaker <sup>⓪</sup>	5.3	4.8	5.2	4.3	5.1	5.0
Oats	CDC Arborg <sup>⓪</sup>	5.8	7.8	5.2	4.2	4.3	5.5
Oats	CDC Endure <sup>⓪</sup>	4.9	6.4	4.5	4.5	4.5	4.9
Oats	OT6036	5.1	3.2	4.9	3.7	4.6	4.3
<b>Oat Average</b>							<b>4.9</b>
Barley	AB Advantage <sup>⓪</sup>	6.1	4.6	5.5	5.1	6.6	5.6
Barley	AB Tofield <sup>⓪</sup>	5.9	4.9	5.5	4.7	5.5	5.3
Barley	CDC Renegade <sup>⓪</sup>	7.0	7.8	5.1	5.0	6.1	6.2
<b>Barley Average</b>							<b>5.7</b>
Peas/Barley	CDC Lewochko <sup>⓪</sup> - AB Advantage <sup>⓪</sup>	6.1	5.7	5.8	5.2	6.2	5.8
Peas/Oats	CDC Lewochko <sup>⓪</sup> - CDC Arborg <sup>⓪</sup>	5.8	5.5	4.8	3.5	4.4	4.8
<b>Pea/cereal Average</b>							<b>5.3</b>
Spring Triticale	Pronghorn <sup>2</sup>	3.2	6.2	3.7	3.4	3.8	4.1
Proso Millet	Crown <sup>2</sup>	2.7	3.4	5.0	5.3	4.2	4.1
Foxtail Millet	Siberian <sup>2</sup>	2.8	5.7	4.7	4.6	4.4	4.4
<b>Millet Average</b>							<b>4.3</b>
Sorghum Sudangrass	common <sup>2</sup>	6.0	7.0	9.3	4.9	—	6.8
Forage Sorghum	common <sup>2</sup>	6.8	7.2	15.1	—	6.3	8.9
<b>Sorghum Average</b>							<b>7.8</b>
<b>Grand Mean (tonnes/acre)</b>		5.3	5.7	6.0	4.5	5.1	
CV %		13.7	16.7	10.6	13.6	14.4	
LSD (0.05)		1.2	1.6	1.1	1.0	1.2	
Sig Diff		yes	yes	yes	yes	yes	
<b>Seeding Date</b>		16-May	12-May	26-May	25-May	19-May	
<b>Harvest Date</b>		July 26 to Aug 24	Aug 11 & Aug 24	Aug 15 to Sept 12	July 27 & Aug 8	Aug 3 & Sept 1	

1 Dry matter yields measured under a one-cut system.

2 Due to lack of availability, common seed was used.

Forage Quality <sup>1</sup>											
CP (%) <sup>3</sup>						TDN (%) <sup>4</sup>					
Arborg	Carberry	Carman	Melita	Roblin	Average	Arborg	Carberry	Carman	Melita	Roblin	Average
8.1	8.0	11.7	9.0	10.2		62.4	63.3	64.0	63.0	66.3	
10.2	6.8	10.8	10.6	10.4		61.4	61.1	67.4	62.1	68.0	
10.2	6.8	12.5	9.6	10.0		61.5	59.7	70.7	62.8	70.4	
9.5	7.5	10.8	10.2	9.6		64.5	61.5	67.0	65.8	66.6	
<b>9.5</b>	<b>7.3</b>	<b>11.5</b>	<b>9.9</b>	<b>10.1</b>	<b>9.6</b>	<b>62.5</b>	<b>61.4</b>	<b>67.3</b>	<b>63.4</b>	<b>67.8</b>	<b>64.5</b>
9.3	8.1	11.3	9.0	10.7		70.6	73.4	72.1	75.0	76.5	
7.7	7.7	11.1	8.3	9.8		74.4	68.7	75.2	74.4	79.1	
7.5	8.9	11.8	8.7	9.2		70.9	76.3	69.1	72.6	76.1	
<b>8.2</b>	<b>8.2</b>	<b>11.4</b>	<b>8.7</b>	<b>9.9</b>	<b>9.3</b>	<b>72.0</b>	<b>72.8</b>	<b>72.1</b>	<b>74.0</b>	<b>77.2</b>	<b>73.6</b>
13.6	8.3	11.7	8.2	10.9		68.6	70.9	70.6	68.3	72.7	
9.9	7.8	11.8	11.4	11.4		67.0	58.5	65.1	63.5	69.2	
<b>11.8</b>	<b>8.1</b>	<b>11.8</b>	<b>9.8</b>	<b>11.2</b>	<b>10.5</b>	<b>67.8</b>	<b>64.7</b>	<b>67.9</b>	<b>65.9</b>	<b>71.0</b>	<b>67.4</b>
11.4	8.4	10.6	10.4	10.6	10.3	67.1	69.2	67.2	64.6	71.5	67.9
10.4	6.8	8.9	7.3	11.4		66.0	62.1	63.5	65.0	68.0	
8.4	6.7	12.4	8.0	11.1		61.6	59.2	65.8	61.2	64.2	
<b>9.4</b>	<b>6.8</b>	<b>10.7</b>	<b>7.7</b>	<b>11.3</b>	<b>9.1</b>	<b>63.8</b>	<b>60.7</b>	<b>64.7</b>	<b>63.1</b>	<b>66.1</b>	<b>63.7</b>
7.1	7.6	10.7	7.3	9.8		60.5	64.8	69.4	64.3	65.1	
9.7	9.3	5.5	8.1	—		63.9	66.6	71.6	68.3	—	
<b>8.4</b>	<b>8.5</b>	<b>8.1</b>	<b>7.7</b>	<b>9.8</b>	<b>8.5</b>	<b>62.2</b>	<b>65.7</b>	<b>70.5</b>	<b>66.3</b>	<b>65.1</b>	<b>66.0</b>

# Distributor Contacts for Listed Varieties in Seed Manitoba 2024

Look up variety within the correct CROP KIND to find the company, then look for company phone number in the box at bottom of section.

## FORAGE

See cereal and pulse distributor contacts and growers list for forage varieties of oat, barley, and pea.

See forage growers list for perennial forage types.

### Alfalfa

Instinct DLF Canada Inc.  
Vision DLF Canada Inc.

### Birdsfood Trefoil

Bull DLF Canada Inc.  
Leo DLF Canada Inc.  
Lotanova DLF Canada Inc.

### Timothy

Arlaka DLF Canada Inc.  
Comer DLF Canada Inc.  
Comtal DLF Canada Inc.  
Richmond DLF Canada Inc.  
Sahara DT DLF Canada Inc.  
Summergraze DLF Canada Inc.  
Valor DLF Canada Inc.

## CORN

913S NorthStar Genetics  
924S NorthStar Genetics  
928S NorthStar Genetics  
932S NorthStar Genetics  
A5686G2 RIB PRIDE Seeds  
AS1018G2 EDF PRIDE Seeds  
AS1028G2 EDF PRIDE Seeds  
AS1047RR EDF PRIDE Seeds  
BY Belmont RR2 BrettYoung  
BY Brava RR2 BrettYoung  
BY Guernsey VT2P RIB BrettYoung  
BYM2234003BV BrettYoung  
CP1440VT2P/RIB CROPLAN  
CP2288VT2P/RIB CROPLAN  
CP2585VT2P/RIB CROPLAN  
CP2790VT2P/RIB CROPLAN  
CP2845VT2PRIB CROPLAN  
CP2972SS/RIB CROPLAN  
CSX22077A/RR CROPLAN  
CSX22086A/RR CROPLAN  
CX23072A/VT2P CROPLAN  
Dalton Greenfield Genetics  
DKC30-63RIB DEKALB  
DKC31-85RIB DEKALB  
DKC33-37RIB DEKALB  
DKC36-48RIB DEKALB  
DKC39-55RIB DEKALB  
DLF 2320RR DLF Canada  
DLF 2333RR DLF Canada

## CORN

DLF 2334VT2P RIB DLF Canada  
DLF 2495RR DLF Canada  
DLF ExAmine LFF RR DLF Canada  
DLF ExSeed LF RR DLF Canada  
EXP084-23 DEKALB  
EXP8223-AA Syngenta Canada  
EXP8523-AA Syngenta Canada  
HX 2511 Horizon Seeds  
HZ 1685 Horizon Seeds  
HZ 1831 Horizon Seeds  
HZ 2220 Horizon Seeds  
HZ 3050 Horizon Seeds  
HZ 3386 Horizon Seeds  
HZ 675 Horizon Seeds  
HZ 878 Horizon Seeds  
LFG 8755R Maizex Seeds  
Maxx Greenfield Genetics  
MS 8022R Maizex Seeds  
MS 8270R Maizex Seeds  
MS 8632R Maizex Seeds  
NK7837-V Syngenta Canada  
NK8005-V Syngenta Canada  
NK8204-V Syngenta Canada  
NK8519-DV Syngenta Canada  
NK8618-D Syngenta Canada  
NK8920-D Syngenta Canada  
NK9023-DV Syngenta Canada  
NK9175-DV Syngenta Canada  
NS EXP83T NorthStar Genetics  
NS EXP90S NorthStar Genetics  
Prime Greenfield Genetics  
PV 61177SRR Proven Seed  
PV 62181SRIB Proven Seed  
PV 62683SRR Proven Seed  
Riel Greenfield Genetics  
TH6180 VT2P Thunder Seed  
TH6185 VT2P Thunder Seed  
TH8483 DV Thunder Seed  
X22080A\VT2P CROPLAN  
X22084A\VT2P CROPLAN

### DISTRIBUTOR CONTACTS - FORAGE SEED

### PHONE NUMBER

Alliance Seed ..... 1-877-270-2890  
BrettYoung..... 1-800-665-5015  
DL Seeds..... 204-331-3611  
DLF Canada Inc ..... 1-204-633-0088  
Dyck Seeds ..... 1-888-204-1000  
FP Genetics..... 1-877-791-1045  
Imperial Seed ..... 1-204-786-8457  
Interlake Forage Seeds ..... 1-800-900-1390  
Northstar Seed Ltd..... 1-800-430-5955  
Pickseed Canada ..... 1-800-263-7425  
Pioneer Seeds..... 1-800-667-3852  
Proven Seed..... 1-800-661-3334  
SeCan..... 1-800-665-7333

### DISTRIBUTOR CONTACTS - CORN SILAGE

### PHONE NUMBER

Bayer CropScience Canada Inc (DEKALB)..... 1-888-283-6847  
BrettYoung..... 1-800-665-5015  
DLF Canada Inc ..... 1-204-633-0088  
Fraser Seeds Ltd (Greenfield Genetics)..... 1-604-857-3355  
Horizon Seeds Canada Inc (Horizon Seeds)..... 1-855-983-7255  
Maizex Seeds Inc (Maizex Seeds) ..... 1-877-682-1720  
NorthStar Genetics Ltd. (NorthStar Genetics) ..... 1-204-262-2425  
Nutrien Ag Solutions (Proven Seed)..... 1-855-569-9444  
Pioneer Seeds ..... 1-800-667-3852  
PRIDE Seeds..... 1-800-265-5280  
Syngenta (NK) ..... 1-877-964-3682  
Thunder Seed Canada Inc (Thunder Seed) ..... 1-888-684-8633  
WinField United Canada (CROPLAN) ..... 1-888-975-4769



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For hay and pasture seed purchases contact:

Tom Rinn

2048999730  
trinn@dfpickseed.com

Shane Terry

2042236184  
sterry@dfpickseed.com

For forage and turfgrass seed production contracts:

Marcel Greaves

2047719929  
mgreaves@dfpickseed.com

Dan McGill

2047710482  
dmcgill@dfpickseed.com

# Growers List



## ALFALFA

S=Select; F=Foundation; R=Registered; C=Certified; ☼ Indicates Plant Breeders Rights (PBR) protection under UPOV 1978 and Ⓢ protected or pending under UPOV 1991.

### ALGONQUIN

Fisher Branch; Skuba, Bonny ..... C

### MULTI5301

Fisher Branch; Interlake Forage Seeds Ltd .....204-372-6920 C

### POWER 4.2

Broad Valley; Woloshyn, Richard R.....204-372-6029 C

## BIRDSFOOT TREFOIL

S=Select; F=Foundation; R=Registered; C=Certified; ☼ Indicates Plant Breeders Rights (PBR) protection under UPOV 1978 and Ⓢ protected or pending under UPOV 1991.

### BRUCE

Fisher Branch; Interlake Forage Seeds Ltd .....204-372-6920 F C

### LEO


Fisher Branch; Shepell, Christopher M.W. & Murray .....204-372-6844 C

## TIMOTHY

### CLIMAX

Broad Valley; Hnatiuk, Johnny David.....204-372-6748 C

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**Murray Froebe** **Bailey Hill**  
204-745-6655 204-750-8366







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AAC Brandon, AAC Starbuck, AAC Leroy, SY Rowyn

**OATS**  
CDC Endure, AAC Douglas, ORe3542M

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