

Variety Description Key

Except for long term average yield and quality data, variety description information was obtained from the Co-operative Registration Trials.

Disease Resistance Ratings: (HS) highly susceptible; (S) susceptible; (MS) moderately susceptible; (MR) moderately resistant; (R) resistant; (n/a) not available.

⌚ 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.

The Canadian Seed Trade Association (CSTA) has launched the new Crop Varieties Registered in Canada and Plant Breeders' Rights Status database to assist seed sector stakeholders to easily identify PBR protection on crop varieties registered for sale in Canada: <http://cdnseed.org/library/crop-kinds-database/>. Additional information is also available at www.PBRfacts.ca.

Key to 2015 Yield or Quality Tables

Numbers in brackets indicate site years. Site years tested is the number of locations added up over the years that variety has been tested in trials against the check. The more site years the more dependable the data. Use data with caution when there are fewer than 3 site years for annual crops and 9 site years for perennial crops.

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.

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.

Forage Crops

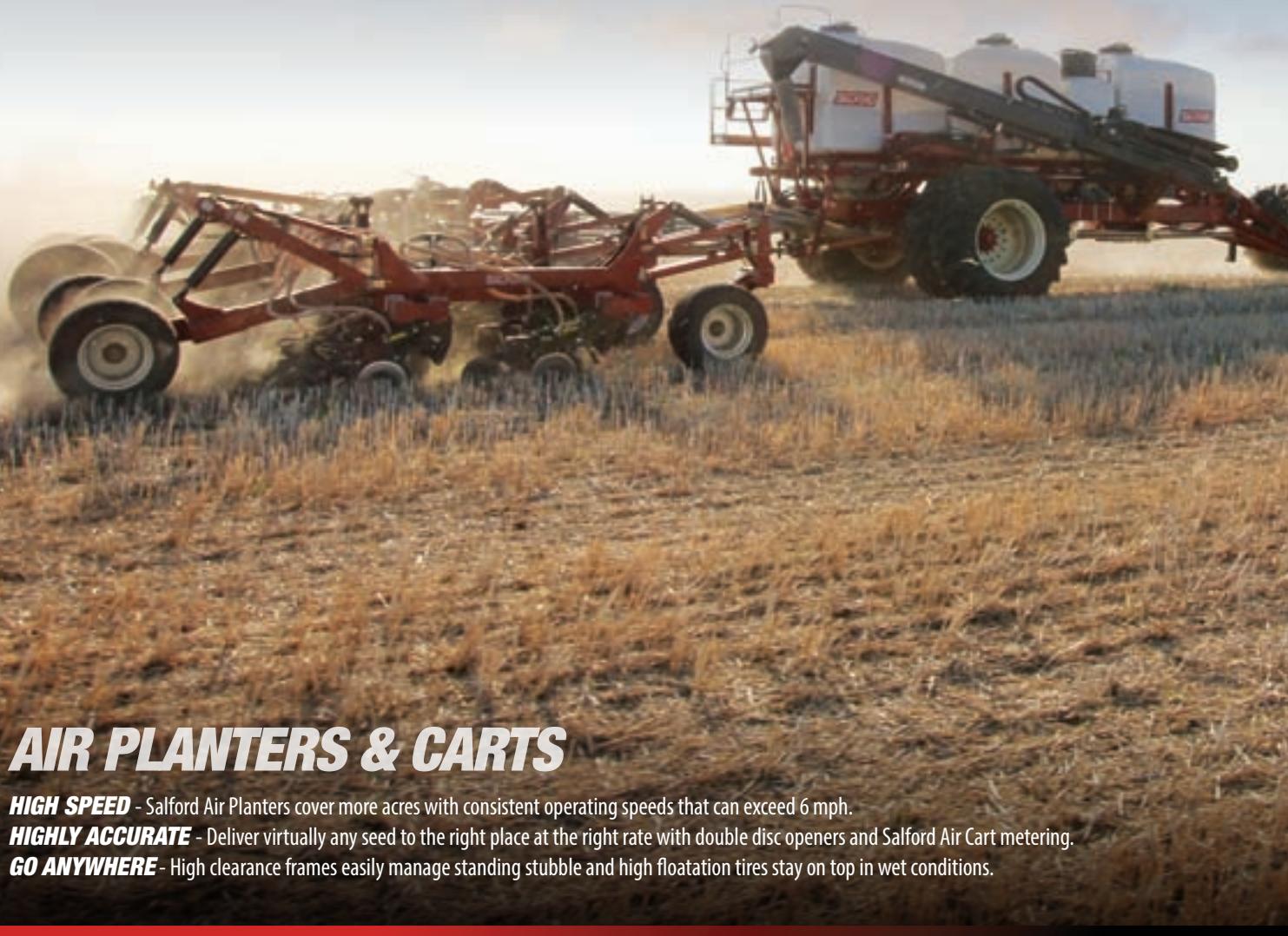


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Manitoba Agriculture, Food and Rural Development Variety Guide

FORAGE ADAPTATION & COMPARISON GUIDE

LEGUMES

Forage	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.
Aliske Clover	Hay & Pasture	Short	Fair	Poor	Moderate	Low	Low-lying moist areas.
Birdsfoot Trefoil	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 creeding habit best on more coarse textured soils.
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	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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FORAGE CROPS

FORAGE ADAPTATION & COMPARISON GUIDE — Tame Grasses (continued)

Forage	Use	Longevity	Winter Hardiness	Tolerance to:			Preferred Climate and Growing Conditions
				Drought	Flooding	Salinity	
Kentucky Blue Grass	Pasture	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 wide range of soils.
Pubescent Wheatgrass	Hay & Pasture	Medium	Good	Moderate to High	Low	Low to Moderate	Widely adaptable 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	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, Food and Rural Development — Forage Adaptation & Comparison Guide

Comments:

The silage 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 evaluated at a plant population of 28,000 plants per acre. Plots are planted at a higher rate and thinned to achieve the target population.

Yields are corrected to 65% 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 Corn Growers Association office at 204-745-6661.

CHU ¹	Hybrid	Genetic Traits ²	Distributor	Elm Creek						
				Yield (Mt/ac)	Moisture ³ (%)	TDN (%)	ADF (%)	NDF (%)	Milk/Acre ⁴ (lbs/ac)	Beef/Acre ⁵ (lbs/ac)
2125	A4177G3 RIB	VT3P	PRIDE Seeds	16.8	68.8	72.3	24.7	45.5	15,060	1,561
2150	DKC 26-28 RIB	GENV2P	Monsanto	18.8	69.8	70.9	26.0	47.2	15,700	1,705
2150	YUKON R	RR2	Elite Seeds	21.1	67.7	69.6	27.2	48.7	16,161	1,883
2200	DKC 27-55 RIB	GENV2P	Monsanto	17.5	70.7	71.4	25.5	45.9	13,266	1,608
2200	LR 9676VT2PRIB	VT2PRIB	Delmar Commodities	15.8	71.2	67.4	29.2	52.7	12,853	1,370
2200	LR 9376RR	RR2	Delmar Commodities	16.4	72.0	71.0	25.9	46.8	12,837	1,491
2200	TH4578	VT2P	Quarry Seed	17.0	68.8	65.9	30.6	52.7	13,716	1,436
2200	TH7677	VT2P	Quarry Seed	18.1	71.4	68.5	28.2	50.4	13,949	1,593
2200	FUSION RR	RR2	Elite Seeds	18.2	70.2	69.9	27.0	47.7	16,034	1,629
2200	E47A17 R	RR2	Elite Seeds	18.9	69.2	73.0	24.0	44.4	16,095	1,771
2225	TH7578	VT2P	Quarry Seed	15.9	71.6	69.1	27.7	49.2	11,590	1,411
2250	LR 9579RR	RR2	Delmar Commodities	15.9	72.6	69.4	27.4	48.8	10,481	1,415
2250	TH4126	RR	Quarry Seed	17.1	71.4	67.2	29.4	50.6	14,586	1,472
2275	3085	RR	Dow Seeds	17.1	72.7	66.9	29.7	50.8	13,036	1,464
2275	P7958AM	YGCB/HX1/LL/RR2	DuPont Pioneer	17.6	69.5	67.1	29.5	51.1	15,090	1,518
2275	PS 2348VT2P RIB	GENVT2P RIB	DLF Pickseed Canada Inc.	16.7	71.5	67.5	29.1	51.2	13,601	1,449
2275	BAXXOS RR	RR	Dow Seeds	18.4	69.4	68.6	28.1	49.4	14,766	1,617
2290	HZ 675	Agrisure GT/CB/LL	Horizon Seeds Canada Inc.	17.0	74.3	69.7	27.1	47.1	12,292	1,520
2300	TH2146	RR	Quarry Seed	18.9	69.9	65.2	31.3	54.4	15,649	1,577
2300	MZ 1633DBR	GENVT2P	Maizex Seeds Inc.	18.3	71.3	70.3	26.5	46.8	14,787	1,650
2300	LF 730CBR	GENVT3P	Maizex Seeds Inc.	21.2	70.9	69.3	27.5	48.7	17,374	1,885
2325	DKC 30-07 RIB	GENV2P	Monsanto	17.7	71.2	69.1	27.6	49.1	13,863	1,569
2325	A4705HMRR	RR2	PRIDE Seeds	18.1	69.7	66.4	30.2	51.8	15,453	1,538
2325	E49A12 R	GENVT2P RIB	Elite Seeds	16.9	72.7	70.5	26.3	47.3	12,113	1,525
2350	DS80A27	SSX	Dow Seeds	17.3	71.9	66.6	30.0	50.7	13,492	1,482
2350	A4939G2 RIB	VT2P	PRIDE Seeds	17.9	71.4	70.0	26.8	48.1	13,847	1,610
2350	HL R219	RR	Dow Seeds	17.1	70.2	64.8	31.7	54.3	13,773	1,421
2350	TH 7681	VT2P	Quarry Seed	19.1	72.7	69.5	27.3	48.4	14,980	1,699
2375	HZ 730GT	Agrisure GT	Horizon Seeds Canada Inc.	17.3	73.9	66.6	30.0	52.6	13,223	1,475
2375	A5095G2 RIB	VT2P	PRIDE Seeds	19.5	70.1	67.4	29.3	51.2	15,509	1,687
2400	AS1047RR EDF	RR2	PRIDE Seeds	20.7	72.3	68.8	28.0	49.3	15,836	1,830
2400	E50P52 R	GENVT2P RIB	Elite Seeds	20.3	70.3	66.8	29.8	51.1	16,268	1,738
2400	PS 2520VT2P RIB	GENVT2P RIB	DLF Pickseed Canada Inc.	19.3	70.3	66.1	30.5	51.9	16,170	1,636
2425	TMF8106	SSX	Dow Seeds	17.0	75.6	67.7	29.0	51.1	11,986	1,472
2450	HX 13103Y	Agrisure Viptera 3220 E-Z Refuge	Horizon Seeds Canada Inc.	19.2	70.4	67.4	29.2	50.4	13,711	1,659
2500	A5433G3 RIB	VT3P	PRIDE Seeds	17.6	72.4	67.3	29.3	50.1	13,240	1,520
2500	P8387AM	YGCB/HX1/LL/RR2	DuPont Pioneer	16.5	70.4	70.1	26.7	47.1	15,041	1,480
2500	E53B22 R	GENVT2P RIB	Elite Seeds	17.1	73.8	64.8	31.7	53.2	13,485	1,421
2500	VENZA R	RR2	Elite Seeds	18.5	75.2	63.6	32.8	55.6	13,300	1,513
2500	E57L62 R	GENVT2P RIB	Elite Seeds	19.0	74.1	63.5	32.9	56.2	13,274	1,546
2500	4164	GT/CB/LL/RW/XT	Dow Seeds	17.3	72.4	67.9	28.8	50.0	13,107	1,508
2550	HZ 760GT	Agrisure GT	Horizon Seeds Canada Inc.	16.9	71.6	69.0	27.8	50.9	14,077	1,497
2550	P8651HR	HX1/LL/RR2	DuPont Pioneer	18.6	72.7	67.5	29.1	51.6	14,652	1,612
2550	TMF86H77RA	SSX	Dow Seeds	19.5	73.2	60.0	36.2	59.2	15,347	1,498
2575	P8581R	RR2	DuPont Pioneer	17.6	70.6	70.8	26.1	46.9	13,917	1,596
2600	F2F298	HX1/LL/RR	Dow Seeds	15.6	75.5	69.3	27.4	50.5	9,993	1,388
2650	HL SR35	RR	Dow Seeds	20.5	73.2	63.4	33.0	55.8	14,813	1,670
2700	TH4188RR	RR	Quarry Seed	17.0	73.3	68.0	28.7	50.1	12,229	1,481
2700	F2F346	HXT/LL/RR	Dow Seeds	14.4	75.9	69.1	27.6	50.4	8,777	1,278
2750	TMF91Q25	SSX	Dow Seeds	18.9	72.8	64.2	32.2	55.6	11,776	1,559
2750	F2F378RA	SSX	Dow Seeds	17.6	72.7	67.6	29.1	52.4	12,901	1,528
2800	HLS 4302	HXT/LL/RR	Dow Seeds	21.6	72.7	66.7	30.0	52.0	14,548	1,850
Site Average				17.9	71.6					
CV				11.6	2.6					
Sign Diff				Yes	Yes					
LSD				3.4	3.1					
Planting Date				12-May						
Harvest Date				9-Sep						

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, available at <http://cdnseed.org/list-of-corn-hybrids/>. Information provided includes technology brand name and refuge requirements.

3 Moisture content at harvest.

4 Milk per Acre was calculated using Milk 2006, 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.

ANNUAL FORAGE — Variety Descriptions

Variety descriptions for wheat, barley and oat crop types can be found in the Cereal Crops section of SEED Manitoba 2016 pages 17.

Field pea variety information can be found on page 84.

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 early pod formation; millet at early heading.

Variety	Seed Source	Days to Maturity (Banjo)		Resistance Level					
		Lodging	Stem Rust	Leaf Rust	Bunt	Fusarium			
TRITICALE									
AC Alta	12	—	—	-1	G	R	R	R	—
AC Certa	12	—	—	-3	G	R	R	R	I
Banjo	4	—	—	100 days	G	R	R	R	—
Pronghorn	12	—	—	-4	G	R	R	R	I
SANDRO	4	—	—	-3	G	R	R	R	—
Seed Source	Seed Color	Seed Size (seeds/lb)	Days to Head	Days to Maturity					
FOXTAIL MILLET									
Yellow (Golden German)	13	Yellow	160-170,000	75-90	95-110				
Red (Siberian)	13	Red	169-170,000	55-70	70-90				
PROSO MILLET									
Green (Crown)	13	Gray/Green	70-90,000	50-60	85-90				
Red (Cerise)	13	Red	70-90,000	50-60	85				
Yellow (AC Prairie Gold)	17	Yellow	70-90,000	50-60	75				

ANNUAL FORAGE — Yield Comparisons

Variety	Manitoba Mean ¹		Yield at Test Sites % of check ¹					Forage Quality ²				
	% of Virden	% of Ranger	Arborg	Boissevain/ Melita	Hamiota/ Minnedosa	Rosebank	Roblin	RFV (%)	CP (%)	TDN (%)	Beef ³ (lbs/ac)	Site Years
BARLEY												
AC Ranger (6F)	105 (12)	100 (24)	100 (6)	100 (6)	— —	100 (6)	100 (6)	123	9.8	65	1011	(6)
CDC Austenson(2)◎	100 (4)	102 (1)	101 (1)	— —	88 (1)	102 (1)	123	9.6	63	1099	(1)	
CDC Cowboy (2F)◎	—	103 (24)	101 (6)	97 (6)	— —	103 (6)	110 (6)	112	9.6	63	1018	(6)
CDC Mindon(2)◎	97 (8)	95 (2)	93 (2)	— —	94 (2)	107 (2)	133	9.0	64	1043	(2)	
Champion(2)◎	—	107 (12)	107 (3)	97 (3)	— —	108 (3)	116 (3)	136	12.1	65	1185	(3)
Chigwell(6)◎	96 (4)	87 (1)	97 (1)	— —	98 (1)	103 (1)	115	8.8	62	1038	(1)	
Desperado(6F)◎	105 (4)	104 (1)	104 (1)	— —	104 (1)	111 (1)	111	7.7	61	1099	(1)	
Lacey (6W)◎	—	92 (12)	89 (3)	101 (3)	— —	93 (3)	86 (3)	111	10.4	66	878	(3)
Virden (6F)	100 (28)	99 (13)	100 (7)	100 (7)	100 (4)	100 (3)	100 (3)	103	10.4	63	910	(3)
Variety	Manitoba Mean ¹		Yield at Test Sites % of check ¹					Forage Quality ²				
	% of Triple Crown		Arborg	Boissevain/ Melita	Hamiota/ Minnedosa	Rosebank	Roblin	RFV (%)	CP (%)	TDN (%)	Beef ³ (lbs/ac)	Site Years
OATS												
Furlong◎	97 (11)	103 (3)	102 (3)	— —	75 (2)	101 (3)	111	11.0	64	997	(3)	
Jordan◎	102 (12)	94 (3)	102 (3)	—	94 (3)	97 (3)	98	9.3	61	1061	(3)	
Pinnacle◎	95 (26)	99 (5)	99 (8)	100 (4)	90 (3)	94 (4)	100	8.8	60	1049	(3)	
Triactor◎	99 (8)	105 (2)	101 (2)	—	92 (2)	98 (2)	107	9.2	61	1177	(2)	
Triple Crown	100 (34)	100 (7)	100 (10)	100 (4)	100 (5)	100 (6)	113	10.4	61	1058	(6)	

(continued) ANNUAL FORAGE — Yield Comparisons

Variety	Manitoba Mean ¹ % of Banjo	Yield at Test Sites % of check ¹					Forage Quality ²				
		Arborg	Boissevain/ Melita	Hamiota/ Minnedosa	Rosebank	Roblin	RFV (%)	CP (%)	TDN (%)	Beef ³ (lbs/ac)	Site Years
TRITICALE											
AC Alta	104 (11)	82 (1)	117 (4)	94 (4)	—	—	—	—	—	—	—
AC Certa	99 (11)	93 (1)	104 (4)	93 (4)	—	—	—	—	—	—	—
Banjo	100 (19)	100 (3)	100 (6)	100 (4)	—	—	105	10.4	61	1052	(2)
Pronghorn	108 (3)	108 (2)	—	—	—	—	—	—	—	—	—
SANDRO	101 (11)	81 (1)	108 (4)	98 (4)	—	—	—	—	—	—	—
TR-196	88 (4)	92 (1)	72 (1)	—	97 (1)	89 (1)	106	9.0	61	856	(2)
PEAS											
40-10 (Check)	100 (22)	100 (5)	—	—	—	100 (4)	122	16	57	980	(4)
CDC Leroy	105 (22)	96 (5)	—	—	—	95 (4)	154	16	63	1136	(4)
CDC Minuet	95 (22)	97 (5)	—	—	—	100 (4)	155	16	64	1050	(4)
CDC Sonata	104 (22)	98 (5)	—	—	—	96 (4)	141	17	60	1077	(4)
CDC Tucker	105 (22)	94 (5)	—	—	—	99 (4)	142	16	62	1118	(4)
Trapper	90 (22)	83 (5)	—	—	—	87 (4)	129	17	58	898	(4)
FOXTAIL MILLET											
Yellow (Golden German)	100 (9)	100 (1)	100 (3)	—	100 (2)	100 (3)	85	9.4	59	828	(3)
Red (Siberian)	93 (9)	78 (1)	90 (3)	—	99 (2)	105 (3)	89	9.7	59	791	(3)
Check - Golden German average DM yield 5602 lb/ac (6273 kg/ha) over 9 site years.											
PROSO MILLET											
Green (Crown)	100 (10)	100 (1)	100 (3)	—	100 (3)	100 (3)	99	10.2	61	823	(3)
Red (Cerise)	101 (10)	91 (1)	109 (3)	—	93 (3)	112 (3)	98	10.4	61	862	(3)
Yellow (AC Prairie Gold)	102 (10)	95 (1)	100 (3)	—	91 (3)	121 (3)	99	10.5	61	836	(3)
Check - Crown average DM yield 4639 lb/ac (5195 kg/ha) over 10 site years.											
CHECK VARIETIES											
Virden	8788	lb/ac									
AC Ranger	6292	lb/ac									
Triple Crown	9927	lb/ac									
Banjo	10148	lb/ac									
40-10	9192	lb/ac									

1 Data collected over 6 years (2003-2008) on six sites: Arborg, Roblin (MB), Sutherland, Floral (SK), Lacombe, Edmonton (AB).

2 Forage quality: average values from a Manitoba Forage Council test in 2005-2010 on 4 sites (Arborg, Melita, Roblin, Rosebank).

3 Relative Feed Value (RFV), Crude Protein (CP), Total Digestive Nutrients (TDN). Beef, is an estimation of pounds of beef produced under optimum feeding conditions using a rule of thumb that one pound of beef requires an average of 6 lbs of TDN.

ALFALFA — Variety Descriptions

Variety	Root Type ¹	Use ²	Fall ³		Winter		Resistance Level: ⁶			Notes ⁷	Seed Source
			Dormancy	Hardiness ⁴	Maturity ⁵	BW	VW	PRR			
53Q60	Taproot	H,P	3	3.0	Early	HR	R	HR			10
54Q25	Taproot	H,P	4	—	—	HR	HR	HR			10
54V46	Taproot	H	4	3.0	—	R	R	R			10
54V54	Taproot	H	4	2.5	—	HR	HR	HR			10
Able	Taproot	H,P	2.5	2.9	Early	HR	HR	HR			9
AC Blue J	Taproot	H	—	—	Medium	HR	R	R			14
AC Grazeland Br	Taproot	P,H	2	—	Medium	R	S	—	Bloat reduced		9
AC Longview	Taproot	H	3	2.9	Medium	HR	R	—			9
AC Manitou	—	—	—	—	—	—	—	—	—		—
AC Totem	—	—	—	—	—	—	—	—	—		—
Algonquin	Taproot	H,P	2	2.1	Medium	HR	S	S			13
AmeriStand 201+Z	Taproot	H	2	1.7	—	HR	HR	HR	Sunken crown		17
Apica	Taproot	H	3	2.3	Early	R	S	S			15
AT05	—	—	—	—	—	—	—	—	—		—
Beaver	Taproot	H,P	2	2.1	Medium	R	S	S			13
Equinox	Taproot	H	3.5	—	Medium	HR	HR	HR			17
Forerunner	Taproot	H	2	—	Early	HR	HR	HR	Multifoliate		5
Gala	Taproot	H	2	2.7	Early	HR	HR	HR	Multifoliate		17
Halo	Taproot	H	4			R	R	R	(HR)-Anthracnose, Fusarium; (R)-Aphanomyces		—
Heinrichs	Creeping	P,H	1	2.1	Medium-Late	R	—	—			17
LRC07 4151L	—	—	—	—	—	—	—	—	—		17
Matrix	Creeping	P,H	2	—	Medium	HR	MR	R	Resistant pea aphid		6
Multi5301	Taproot	H	3	2.9	Early-Medium	HR	R	R	Multifoliate		6, 8
Pickseed 2065MF	Taproot	H	3.7	2.0	—	HR	R	HR	Multifoliate		9
Pickseed 3006	Creeping	P,H	2	—	—	HR	MR	MR			9
Rambler	Creeping	P,H	1	—	Late	MR	S	S			13
Rangelander	Creeping	P,H	1	2.0	Late	S	S	S			14
Runner	Creeping	P,H	2	2.6	Medium-Late	HR	S	—			7
SC A101	—	—	—	—	—	—	—	—	—		—
Spredor 4	Creeping	P,H	1.5	2.0	Medium	HR	HR	HR			17
Spyder	Creeping	P,H	1	1.0	Medium-Late	HR	R	R			2
Starbuck	Taproot	H	3.7	—	—	HR	R	HR	Multifoliate		9
Stealth SF	Taproot	H	4	1.9	Early	HR	R	HR			7
Survivor	Taproot	H	3	—	Medium	HR	R	HR	Sunken Crown		2
Tophand	Taproot	H	4	—	Medium	HR	HR	HR	Multifoliate		7
Trident II	Taproot	H	3	—	Early						3
Ultra	Taproot	H	3	—	Medium		R				5

Check - Beaver Average Dry Matter Yield 8990 lb/ac (10,058 kg/ha) over 150 site years.

1 Creeping rooted alfalfa types can be more tolerant to grazing than tap rooted types, and may offer better winter hardiness.

2 Use: (H)Hay - developed for maximum yield; may have lower persistence under grazing;(P) Pasture - low growing, higher grazing tolerance. First letter is preferred use.

3 FD: indicates the varieties characteristic to go dormant in fall. FD 9: will grow vigorously in fall; FD 2: will have little fall growth evident. Varieties with ratings of 1 - 4 are considered adequately winter hardy for Manitoba conditions while those of 5 or higher are not well adapted. Varieties with higher ratings should be managed carefully.

4 WH: ability of plants to survive winter and be productive next year. Ratings utilize North American approved Winter Hardiness Zone ratings. Varieties are compared against known check varieties (1=most hardy, 5=least hardy). Score of 1 indicates adaptation to all zones, score of 2 indicates adaptability in zones 2 and above, score of 3 indicates adaptability in 3 and above. (See Winter Hardiness Zone map in front of forage section). Scores are from the Manitoba Forage Council and 3rd party northern US tests using a minimum of 4 sites years of data over 2 winters. Grazing Tolerance: University of Manitoba study (1996 - 1999) determined winter hardiness was more influential than grazing tolerance to stand persistence under grazing.

5 Maturity rating indicates relative comparison of first flowering dates. Early varieties will bloom before late varieties, may provide more cuts/year, but are less hardy.

6 Disease Resistance:(HR) highly resistant; (R) resistance; (MR) moderately resistant; (S) no resistance. Bacterial Wilt (BW), Verticillium Wilt (VW) Phytophythora Root Rot (PRR).

7 Multifoliate varieties have genetic potential to produce 4 or more leaflets per leaf. This trait is influenced by environmental conditions.

ALFALFA — Yield Descriptions

Variety	Yield at test sites % of Beaver ⁸					
	Carberry ⁹	Neepawa-Rosebank ¹⁰		St.Adolphe-St. Pierre ¹¹		
53Q60	—	96	(3)	98	(3)	
54Q25	—	84	(3)	104	(2)	
54V46	—	102	(3)	99	(3)	
54V54	—	103	(3)	100	(3)	
Able	—	97	(2)	—	—	
AC Blue J	98	(4)	101	(26)	100	(20)
AC Grazeland Br	—	96	(3)	104	(3)	
AC Longview	—	95	(3)	98	(6)	
AC Manitou	108	(4)	—	—	—	
AC Totem	103	(4)	—	—	—	
Algonquin	—	97	(8)	98	(5)	
AmeriStand 201+Z	—	100	(9)	95	(3)	
Apica	—	114	(3)	—	—	
AT05	101	(4)	—	—	—	
Beaver	100	(4)	100	(48)	100	(35)
Equinox	—	104	(9)	99	(2)	
Forerunner	—	108	(3)	—	—	
Gala	—	—	—	109	(2)	
Halo	—	—	107	(1)	—	
Heinrichs	—	—	103	(8)	95	(5)
LRC07 4151L	102	(4)	—	—	—	
Matrix	—	—	85	(3)	104	(3)
Multi5301	—	—	97	(5)	104	(3)
Pickseed 2065MF	—	—	92	(3)	110	(3)
Pickseed 3006	—	—	94	(3)	101	(3)
Rambler	94	(4)	96	(46)	92	(32)
Rangelander	90	(4)	96	(26)	94	(19)
Runner	—	—	100	(2)	—	—
SC A101	103	(4)	—	—	—	—
Spredor 4	—	—	104	(9)	96	(3)
Spyder	—	—	94	(3)	86	(2)
Starbuck	—	—	83	(2)	97	(3)
Stealth SF	—	—	121	(3)	100	(2)
Survivor	—	—	102	(3)	109	(3)
Tophand	—	—	105	(3)	102	(3)
Trident II	—	—	105	(8)	—	—
Ultra	—	—	108	(3)	—	—

Check - Beaver Average Dry Matter Yield 8980 lb/ac (10,058 kg/ha) over 150 site years.

8 These numbers represent the long term average yields as a percent of Beaver, on a per cut basis.

9 Carberry data is from 2011 to 2014

10 The Neepawa site was moved to Rosebank in 2004.

11 The St.Pierre site was moved to Kelburn Farms (St.Adolphe) in 2009. The average mean yields in this column contain data from the following: Kelburn Farms (2009-2011); St.Pierre (1999-2008); Steinbach (1993-1998).

OTHER LEGUME — Variety Descriptions and Yield Comparisons (All Varieties have Limited Data)

Variety	Manitoba Mean % of Check	Use ¹	Winter Hardiness ²	Regrowth	Maturity	Notes ³	Seed Source
BIRDSFOOT TREFOIL							
AC Langille	95 (5)	P	G	Good	Early	non-bloating	17
Bull	97 (3)	P	G	Good		non-bloating	9
Empire	87 (4)	P	F	Medium		non-bloating	13
Leo	100 (19)	P	G		Early	non-bloating	13
OAC Bright	96 (3)	P	E	Medium		non-bloating	9
Upstart	102 (5)	P	G			non-bloating	9
Check - Leo average Dry Matter Yield 5610 lb/ac (6299 kg/ha) over 19 site years							
CICER MILKVETCH							
Oxley	100 (11)	P	E	—	—	non-bloating	9
Windsor	119 (6)	P	E	—	—	non-bloating	17
Check - Oxley average Dry Matter Yield 4544 lb/ac (5102 kg/ha) over 11 site years							
YELLOW SWEET CLOVER							
Norgold	100 (1)	H	—	—	Very Early	low coumarin	14
Yukon	102 (1)	H	—	—	Early		13
Check - Norgold average Dry Matter Yield 4254 lb/ac (4772 kg/ha) over 1 site year							
SAINFOIN							
Nova	100 (11)	H,P	—	—	—	non-bloating	14
Check - Nova average Dry Matter Yield 4336 lb/ac (4856 kg/ha) over 11 site years							
NATIVE LEGUME SPECIES							
Limited data for the following marketed Native Legume Species							
Purple Prairie Clover, White Prairie Clover, American Vetch							

1 Use Classes: H - Hay use P - Pasture.

2 Winter Hardiness: Ratings based on winter hardness with check variety: (F) Fair; (G) Good; (E) Excellent.

3 Coumarin is a substance with anti-coagulant properties that is present in all sweet clover varieties. However, newer varieties have been developed with sub-acute levels.

GRASS SPECIES — Variety Descriptions and Yield Comparisons

Variety	Manitoba Mean % of Check	Use ¹	Maturity	Notes ²	Seed Source
ANNUAL RYEGRASS					
Italian					
Barmultra	101 (3)				17
Fabio	—	—			2
Maris Ledger	100 (8)				13
Max	—				9
Nabucco	99 (3)		Early/medium		7
Check - Maris Ledger average DM yield 7597 lb/ac (8536 kg/ha) over 8 site years.					
WESTERWOLD					
Aubade	100 (9)		Early		2
Elunaria	101 (3)				7
SW Botrus	—				9
Sabroso	105 (3)				17
Check - Aubade average DM yield 7913 lb/ac (8891 kg/ha) over 9 site years.					
CREEPING FOXTAIL					
Garrison	100 (3)	P			9
Check - Garrison DM Average yield 2650 lb/ac (2973 kg/ha) over 3 site years					
CREEPING RED FESCUE					
Boreal	100 (10)	P	Early		13
Check - Boreal average DM yield 4739 lb/ac (5321kg/ha) over 10 site years.					
CRESTED WHEATGRASS					
AC Goliath	103 (18)	—		—	14
AC Parkland	—	P		—	9
Fairway	93 (17)	H, P		Diploid	13
Kirk	100 (35)	H, P		Tetraploid	14
Nordan	93 (17)	H, P		Tetraploid	13
Parkway	91 (17)	H, P		Diploid	9
Check - Kirk average DM Yield 5724 lb/ac (6416 kg/ha) over 35 site years.					

Variety	Manitoba Mean % of Check	Use ¹	Maturity	Notes ²	Seed Source
INTERMEDIATE WHEATGRASS					
Chief	100 (9)	H			14
Clarke	97 (5)	H			8
Check - Chief average DM Yield 5329 lb/ac (5978 kg/ha) over 9 site years.					
MEADOW BROME					
Fleet	100 (40)	P,H			14
Montana	99 (15)	P,H			17
MBA					9
Paddock	101 (10)	P,H	Early		14
S9522	93 (2)				
Check - Fleet average DM Yield 4807 lb/ac (5383 kg/ha) over 40 site years.					
MEADOW x SMOOTH BROMEGRASS					
AC Success	— —	P,H		Hybrid	9
Bigfoot	— —	P,H		Hybrid	2
Knowles	103 (12)	P,H		Hybrid	17
S9478B	92 (2)				
Check - Fleet average DM Yield 4498 lb/ac (5054 kg/ha) over 12 site years.					
MEADOW FESCUE					
Ensign	100 (25)	P,H			9
Epic	—	P,H	Early-Medium		2
Prevail					7
Sigmund	—	P,H	Early-Medium		9
Check - Ensign average DM Yield 4157 lb/ac (4667 kg/ha) over 25 site years.					
MEADOW FOXTAIL					
Mountain	127 (5)	P			13
Check - Dan average DM Yield 4696 lb/ac (5272 kg/ha) over 7 site years					
ORCHARDGRASS					
AC Nordic	97 (6)	P,H	Late	Winter Hardiness - VG	2
Baridana	—	P,H	Late		17
Early Arctic	99 (5)	P,H	Medium	Winter Hardiness - E	7
Kay	100 (53)	P,H	Late	Winter Hardiness - G	9
Killarney					17
Kootaney					9
Okay	—	H,P	Very Late	Winter Hardiness - VG	11
OG426	113 (2)				
Check - Kay average DM Yield 4487 lb/ac (5029 kg/ha) over 59 site years.					
PUBESCENT WHEATGRASS					
Greenleaf	—	P,H	—		17
QUACKGRASS x BLUEBUNCH WHEATGRASS					
NewHy	—	P,H	—		17
REED CANARYGRASS					
Bellevue	—	P, H	Early	Low alkaloid	9
Marathon	—	P,H	Medium	Low alkaloid	7, 17
Rival	100 (21)	P,H	—	Low alkaloid	2
Vantage	112 (21)	P,H	Early	Low alkaloid	10
Venture	108 (21)	P,H	Very Early	Low alkaloid	7
Check - Rival average DM Yield 4746 lb/ac (5324 kg/ha) over 21 site years.					
RUSSIAN WILD RYEGRASS					
Swift	100 (6)	P,H			14
Check - Swift average DM yield 3951lb/ac (4432 kg/ha) over 6 site years.					
SLENDER WHEATGRASS					
Revenue	100 (6)	P,H			9
Check - Revenue average DM yield 3928 lb/ac (4407 kg/ha) over 6 site years.					
SMOOTH BROMEGRASS					
AC Rocket	105 (15)	H			17
Bravo	98 (7)	H, P	Early		9
Carlton	100 (65)	H, P			13
Magna	99 (26)	H, P			14
Check - Carlton average DM Yield 5796 lb/ac (6491 kg/ha) over 65 site years.					
TALL FESCUE					
Courtenay	100 (28)	P,H	Late	Winter Hardiness - G	7
Kokane	96 (9)	P,H		Winter Hardiness - G	2
Maximize	92 (7)	P,H	Late		9
Swag	85 (2)				
Check - Courtenay average DM Yield 5751 lb/ac (6441 kg/ha) over 28 site years.					

GRASS SPECIES (continued)

Variety	Manitoba Mean % of check	Use ¹	Maturity	Notes ²	Seed Source
TALL WHEATGRASS					
Orbit	100 (6)	P,H			14
Check - Orbit Average DM yield 4216 lb/ac (4730 kg/ha) over 6 site years.					
TIMOTHY					
Basho	99 (18)	H	Medium		14
Champ	98 (25)	H,P	Early		13
Climax	100 (88)	H,P	Medium-Late		13
Drummond	96 (14)	H	Very Late		9
Farol	74 (10)	H	Late		9, 17
Grindstad	99 (9)	H,P	Early		17
Richmond	103 (23)	H,P	Very Early		9
Tuukka	99 (11)	H	Late		16
Limited data for the following marketed varieties.					
AC Pratt	92 (2)				
Alexander	85 (6)	H	Late		16
Bottnia II	104 (5)	H,P	Medium		17
Colt	100 (3)	H	Medium		17
Express	112 (6)	H,P	Medium-Late		7
Promesse	100 (6)	H,P	Medium		2
ST1	90 (2)				
Check - Climax average DM Yield 4742 lb/ac (5315 kg/ha) over 92 site years.					
NATIVE GRASS SPECIES					
Limited data for the following marketed Warm Season Native Grass Species					
Little Bluestem, Big Bluestem, Sand Bluestem, Indiangrass, Prairie Sandreed					1,2,6,7
Sideoats, Grama, Blue Gramma, Switchgrass and Prairie Cordgrass, Western Wheatgrass					9, 11,, 16, 1
Limited data for the following marketed Cool Season Native Grass Species					
Canada Wildrye, Green Needlegrass, Western Wheatgrass					1,2,6,7
Northern Wheatgrass, Streambank Wheatgrass and, Needle and Thread grass.					9, 11,, 16, 17

1 Use Classes: H - Hay use P - Pasture use. Pasture type varieties tend to display better regrowth.

2 Notes: Reed Canarygrass - Alkaloids adversely affect the nervous system and the rumen digestion.

3 Winter Hardiness: Based on winter hardiness with check variety: (F) Fair; (G) Good; (VG) Very Good; (E) Excellent.

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1 Blight Native Seeds.....	1-204-267-2686	10 Pioneer Hi-Bred Ltd.....	1-800-265-9435
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Growers List



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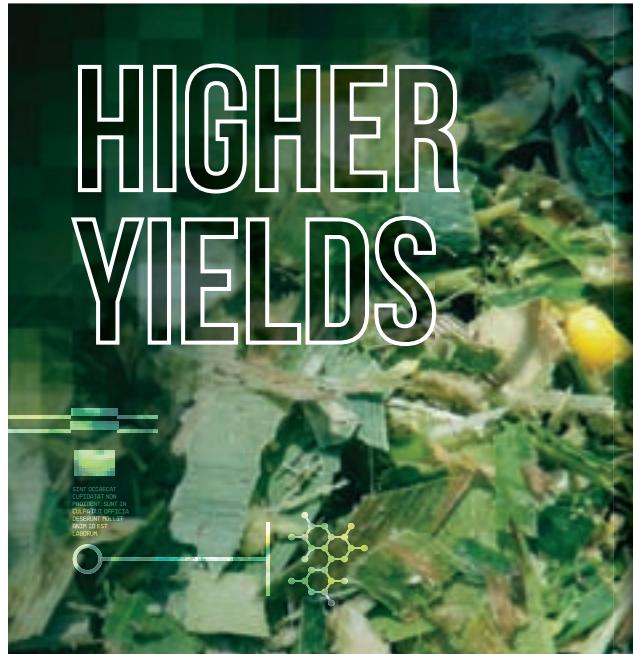
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Winnipeg; Pickseed Canada Inc.....	204-633-0088	C	
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BRUCE

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BROMEGRASS

AAC ROYAL

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AC KNOWLES

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AC ROCKET

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