

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 or a variety where protection has been applied for but not yet granted at time of printing.

*Seed sources can be found at the back of the forage section

Key to 2014 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.

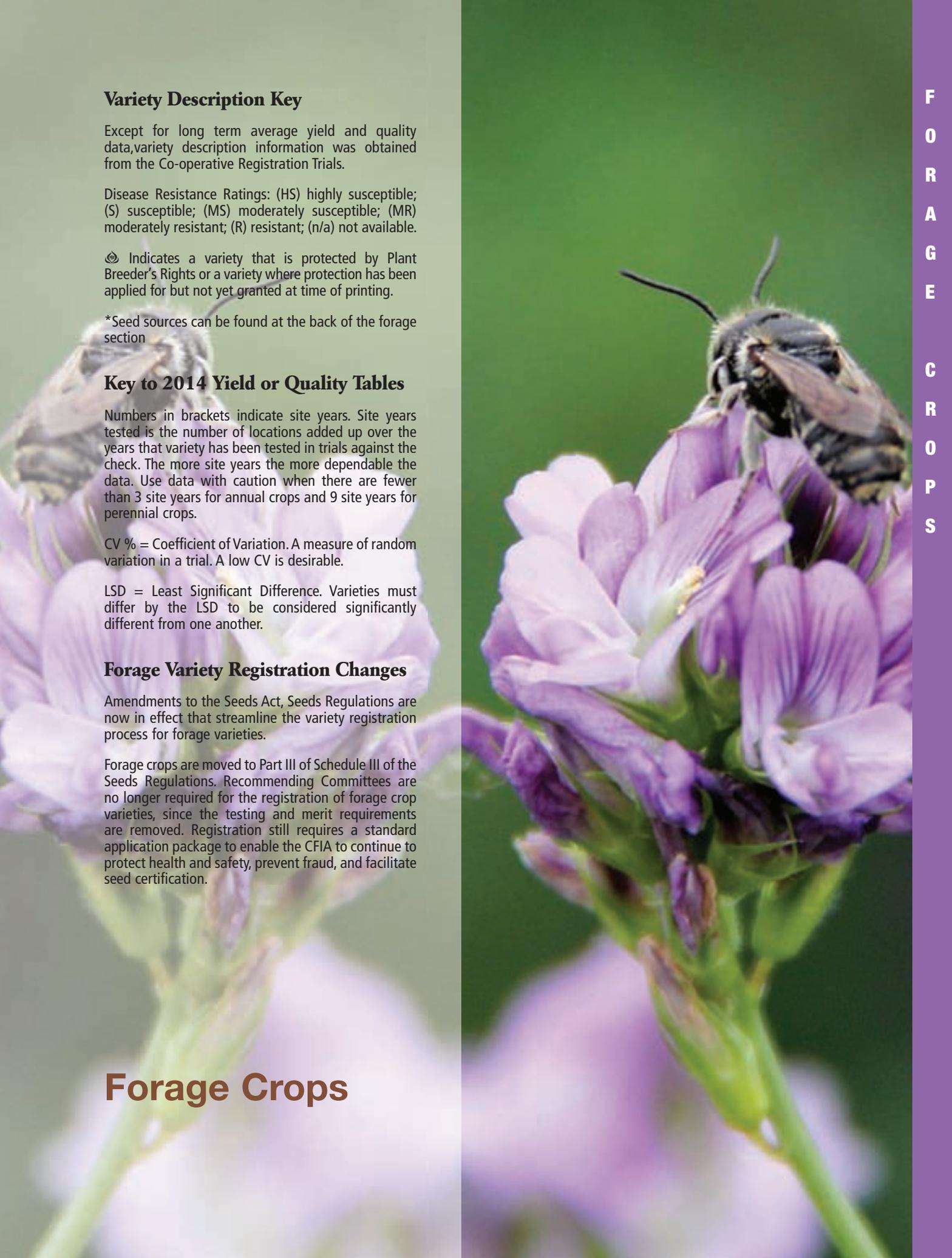
LSD = Least Significant Difference. Varieties must differ by the LSD to be considered significantly different from one another.

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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Variety Decision Tool*

FORAGE CULTIVAR EVALUATION

The Manitoba Forage and Grassland Association coordinates the Manitoba sites within the Western Canadian Forage Variety Testing Program (West Test). Management of the program is through an industry team approach. Producers, seed trade, extension and researchers are involved in the forage evaluation management committee.

The perennial forage cultivar evaluation is coordinated with similar programs in Saskatchewan and Alberta, allowing for sharing of test data. The

annual forage testing is coordinated with other testing facilities and producer organizations. The testing sites are Arborg, Carberry, Melita, Rosebank (formerly Neepawa), Roblin and St. Adolphe (formerly St. Pierre Jolys). Cooperation and support from program partners have allowed the efficient operation of testing in 2014.

The objective of the evaluation program is to provide information to Manitoba's forage producers and industry partners on the performance of annual and perennial forage cultivars under

Manitoba conditions. The program measures dry matter yields of perennials under a three-cut system over three production years and annuals under a one-cut system over three years. The program has also developed test procedures to evaluate persistence, winter-hardiness and grazing tolerance.

The Manitoba Forage and Grassland Association publishes results from West Test, and Manitoba Agriculture, Food and Rural Development compiles data for *Seed Manitoba*.

Support for Western Canadian Forage Variety Testing Program was obtained from various sectors of the agricultural industry. In appreciation of their partnership in this program, the following sponsors are acknowledged:

Manitoba Agriculture, Food and Rural Development
Agricultural Sustainability Initiative
Green Cover Program – Agriculture and Agri-Food Canada
The Western Canadian Forage Variety Testing System

Crop Production Services Canada
Manitoba Forage and Grassland Association
Manitoba Forage Seed Association
Parkland Crop Diversification Foundation
Prairies East Sustainable Agricultural Initiative
S.S. Johnson Seeds
Manitoba Corn Growers Association

Westman Agricultural Diversification Organization
Crop Diversification Center - University of Saskatchewan with funding from Saskatchewan Pulse Growers and Saskatchewan Agriculture and Food Canada
Manitoba Crop Diversification Centre

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.
Alsike Clover	Hay & Pasture	Short	Fair	Poor	Moderate	Low	Prefers low-lying moist areas.
Birdsfoot Trefoil	Pasture	Long	Good	Moderate	High	Low to Moderate	Prefers moist areas.
Cicer Milkvetch	Pasture	Long	Good	Moderate to High	Low	Moderate	Widely adapted but exhibits its creeping 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 & Silage	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.

FORAGE ADAPTATION & COMPARISON GUIDE — Grasses (continued)

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 2-3 years	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	3-5 years	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. Elm Creek was planted May 15, 2014 and harvested September 26, 2014.

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)
2050	P7332R	RR2	DuPont Pioneer	5.9	57.1	73.7	23.3	41.6	13,920	1,606
2100	P7410HR	HX1/LL/RR2	DuPont Pioneer	5.5	58.2	69.3	27.5	48.1	14,474	1,402
2100	P7443R	RR2	DuPont Pioneer	6.6	48.7	71.5	25.4	44.2	15,072	1,716
2100	PS 2263VT2P RIB	GENVT2PRIB	PICKSEED	6.6	56.7	77.7	19.6	37.5	16,136	1,880
2125	DKC 26-25	RR	DEKALB	4.3	59.8	70.1	26.7	47.0	10,374	1,115
2125	A4176BTRR	BT/RR	PRIDE Seeds	5.8	64.2	73.5	23.6	42.6	14,775	1,562
2150	YUKON R	RR	BrettYoung	7.1	66.6	72.5	24.5	43.7	17,989	1,876
2150	DKC 26-28	VT2PRIB	DEKALB	6.0	51.7	74.1	23.0	41.0	13,897	1,641
2200	E47A17 R	RR	BrettYoung	8.0	61.0	75.8	21.3	39.7	18,962	2,214
2200	FUSION RR	RR	BrettYoung	7.3	68.6	70.8	26.0	46.4	17,891	1,901
2200	DKC 27-55	VT2PRIB	DEKALB	7.0	61.6	68.4	28.3	49.3	16,573	1,761
2200	LR 9376RR	RR	Delmar Commodities	6.0	68.2	70.3	26.5	47.7	16,031	1,540
2200	MZ 1633DBR	GENVT2PRIB	Maizex Seeds Inc.	6.6	65.9	73.9	23.2	42.5	16,278	1,779
2225	P7632AM	YGCB/HX1/LL/RR2	DuPont Pioneer	6.5	62.7	70.3	26.5	47.8	16,624	1,678
2225	PS2304RR	RR2	PICKSEED	5.8	53.8	71.9	25.1	43.5	13,412	1,539
2250	39V05	RR2	DuPont Pioneer	5.6	62.3	71.7	25.2	44.3	13,848	1,472
2250	3085	RR	Hyland Seeds	6.9	63.7	73.1	23.9	43.6	17,408	1,854
2250	TH 8781	RR2	Thunder Seed	7.3	67.1	69.6	27.2	49.1	17,890	1,866
2250	39D97	RR2	DuPont Pioneer	6.9	61.6	69.3	27.5	48.0	17,684	1,756
2275	P7958AM	YGCB/HX1/LL/RR2	DuPont Pioneer	8.0	63.4	71.4	25.5	45.7	20,022	2,081
2275	BAXXOS RR	RR	Hyland Seeds	6.2	65.7	72.0	25.0	45.1	15,464	1,622
2300	E53B22 R	VT2PRIB	BrettYoung	7.7	65.5	72.8	24.2	43.8	19,000	2,056
2300	E49A12 R	VT2PRIB	BrettYoung	6.4	67.3	72.4	24.6	43.5	15,396	1,698
2300	3093	RR	Hyland Seeds	7.4	59.7	75.3	21.9	40.1	19,091	2,029
2300	LF 728R	RR	Maizex Seeds Inc.	8.1	66.0	74.0	23.1	43.3	20,490	2,202
2300	TH 2146	RR2	Thunder Seed	8.9	66.1	71.1	25.8	46.8	22,705	2,323
2325	DKC 30-07	VT2PRIB	DEKALB	7.1	62.5	69.7	27.1	47.9	16,482	1,806
2325	A4705HMRR	RR	PRIDE Seeds	6.8	66.9	70.6	26.3	45.5	16,699	1,767
2350	HL R219	RR	Hyland Seeds	9.2	59.7	71.5	25.4	45.9	21,948	2,415
2350	LF 755RR	RR	Maizex Seeds Inc.	7.7	68.7	68.9	27.8	49.2	19,440	1,938
2400	DKC 31-10	VT2PRIB	DEKALB	7.2	65.3	73.9	23.2	43.0	18,443	1,962
2400	HL SR22	RR	Hyland Seeds	7.6	66.9	71.8	25.1	44.9	19,009	1,991
2400	AS1047RR EDF	RR	PRIDE Seeds	8.3	70.4	73.1	24.0	43.7	20,299	2,220
2425	P8210R	RR2	DuPont Pioneer	6.4	59.6	73.3	23.7	43.7	15,869	1,711
2450	E57L62 R	VT2PRIB	BrettYoung	8.2	69.5	73.2	23.9	43.6	21,993	2,210
2500	VENZA R	RR	BrettYoung	8.9	68.4	71.1	25.8	46.1	21,396	2,313
2500	4164	Agrisure3122	Hyland Seeds	8.9	62.4	72.7	24.3	43.4	21,240	2,360
2525	E61P12 R	VT2PRIB	BrettYoung	8.2	67.3	74.3	22.8	41.6	20,365	2,245
2550	P8651HR	HX1/LL/RR2	DuPont Pioneer	7.2	67.3	70.6	26.3	46.8	18,585	1,855
2550	P8673AM	YGCB/HX1/LL/RR2	DuPont Pioneer	7.8	66.8	69.5	27.3	48.2	19,102	1,998
2575	P8581R	RR2	DuPont Pioneer	7.4	70.5	70.5	26.4	45.6	17,371	1,899
2600	P8622AM	YGCB/HX1/LL/RR2	DuPont Pioneer	6.6	64.9	71.0	25.9	46.5	17,509	1,715
2650	HL SR35	RR	Hyland Seeds	8.1	73.3	67.5	29.2	51.3	18,021	1,999
2650	HLS 4302	HX1/LL/RR	Hyland Seeds	9.0	70.4	69.0	27.8	49.5	21,177	2,284
Site Average				7.1	63.9	71.8	25.1	45.0	17,546	1,874
CV (%)				12.5	6.2	4.6	12.3	10.3	—	—
Sign Diff				Yes	Yes	Yes	Yes	Yes	—	—
LSD				1.4	6.5	5.4	5.0	7.5	—	—

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. BT, HX1, CB, YGCB, VT2PRIB, - resistance to European corn borer; RR, RR2, GT - glyphosate herbicide tolerant; LL - Liberty herbicide tolerant.

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 2015 pages 21.

Field pea variety information can be found on page 98.

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		Seed Size (seeds/lb)	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)
Xena (2)	— —	101 (16)	92 (4)	110 (4)	— —	100 (4)	101 (4)	120	9.5	63	1064	(4)
Hulless												
Falcon (6)	102 (2)	— —	102 (1)	— —	— —	— —	— —	— —	— —	— —	— —	— —
	Manitoba Mean ¹		Yield at Test Sites % of check ¹					Forage Quality ²				
Variety	% 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)

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												
Viriden	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	—	—	—	—	—	R	HR	—	Tap rooted	17
AC Totem	—	—	—	—	—	R	HR	HR		17
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	—	—	—	2.0	—	MR	R	—		9
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	17
Heinrichs	Creeping	P,H	1	2.1	Medium-Late	R	—	—		17
LRC07 4151L	—	—	—	—	—	—	—	—		—
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	—	—	—	—	—	—	—	—	Salt tolerance	—
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) Phytophthora 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 Comparisons

Variety	% Manitoba Mean ⁸			Manitoba Mean % of Beaver	Yield at test sites % of Beaver			
	1st Cut	2nd Cut	3rd Cut		Arborg	Carberry ⁹	Neepawa-Rosebank ¹⁰	St. Adolphe-St. Pierre ¹¹
53Q60	92 (6)	103 (6)	— —	97 (6)	— —	— —	96 (3)	98 (3)
54Q25	97 (8)	104 (6)	87 (1)	96 (8)	101 (3)	— —	84 (3)	104 (2)
54V46	95 (9)	107 (8)	106 (4)	100 (9)	98 (3)	— —	102 (3)	99 (3)
54V54	97 (9)	104 (7)	— —	102 (9)	102 (3)	— —	103 (3)	100 (3)
Able	94 (2)	106 (2)	— —	97 (2)	— —	— —	97 (2)	— —
AC Blue J	97 (70)	107 (63)	112 (21)	101 75	98 (24)	98 (4)	101 (26)	100 (20)
AC Grazeland Br ☺	97 (9)	107 (9)	110 (4)	99 (9)	97 (3)	— —	96 (3)	104 (3)
AC Longview	98 (17)	101 -16	114 (9)	98 17	101 (8)	— —	95 (3)	98 (6)
AC Manitou	— —	— —	— —	— —	— —	108 (4)	— —	— —
AC Totem	— —	— —	— —	— —	— —	103 (4)	— —	— —
Algonquin	102 (28)	106 (27)	126 (19)	103 (28)	108 (12)	— —	97 (8)	98 (5)
AmeriStand 201+Z	100 (6)	98 (6)	115 (1)	99 (12)	— —	— —	100 (9)	95 (3)
Apica	101 (18)	102 (17)	147 (14)	106 (18)	104 (6)	— —	114 (3)	— —
AT05	— —	— —	— —	— —	— —	101 (4)	— —	— —
Beaver	100 (142)	100 (133)	100 (56)	100 150	100 (49)	100 (4)	100 (48)	100 (35)
Equinox	94 (7)	94 (7)	109 (2)	100 (13)	95 (2)	— —	104 (9)	99 (2)
Forerunner	125 (5)	119 (5)	154 (1)	117 (5)	127 (2)	— —	108 (3)	— —
Gala	94 (10)	110 (10)	163 (10)	104 (10)	100 (7)	— —	— —	109 (2)
Halo	— —	— —	— —	107 (1)	— —	— —	107 (1)	— —
Heinrichs	100 (37)	98 (37)	119 (27)	98 (37)	96 (15)	— —	103 (8)	95 (5)
LRC07 4151L	— —	— —	— —	— —	— —	102 (4)	— —	— —
Matrix	92 (9)	101 (8)	108 (1)	95 (9)	95 (3)	— —	85 (3)	104 (3)
Multi5301	100 (8)	101 (8)	— —	100 (8)	— —	— —	97 (5)	104 (3)
Pickseed 2065MF	97 (9)	108 (8)	129 (1)	100 (9)	97 (3)	— —	92 (3)	110 (3)
Pickseed 3006	95 (9)	99 (9)	112 (4)	95 (9)	91 (3)	— —	94 (3)	101 (3)
Rambler	99 (131)	93 (122)	68 (44)	94 (139)	98 (44)	94 (4)	96 (46)	92 (32)
Rangelander	98 (75)	92 (68)	75 (24)	94 (81)	99 (27)	90 (4)	96 (26)	94 (19)
Runner	95 (8)	102 (8)	91 (5)	101 (8)	110 (2)	— —	100 (2)	— —
SC A101	— —	— —	— —	— —	— —	103 (4)	— —	— —
Spredor 4	97 (12)	101 (6)	— —	102 (12)	— —	— —	104 (9)	96 (3)
Spyder	96 (8)	94 (8)	98 (3)	95 (8)	105 (3)	— —	94 (3)	86 (2)
Starbuck	92 (9)	96 (9)	97 (1)	93 (9)	99 (3)	— —	83 (2)	97 (3)
Stealth SF	107 (8)	111 (8)	96 (3)	119 (8)	107 (3)	— —	121 (3)	100 (2)
Survivor	95 (9)	108 (7)	129 (4)	99 (9)	87 (3)	— —	102 (3)	109 (3)
Tophand	97 (9)	111 (7)	— —	102 (9)	99 (3)	— —	105 (3)	102 (3)
Trident II	105 (12)	108 (11)	152 (3)	106 (12)	109 (4)	— —	105 (8)	— —
Ultra	125 (5)	116 (5)	125 (1)	115 (5)	122 (2)	— —	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							6, 17

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

2 Winter Hardiness: Ratings based on winter hardiness 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-accute 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 (5321 kg/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 CANARYGRASS3						
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
Kokanee	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, 17
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.

DISTRIBUTOR CONTACTS — Forage Seed

1 Blight Native Seeds.....	1-204-267-2686	10 Pioneer Hi-Bred Ltd.....	1-800-265-9435
2 BrettYoung	1-800-665-5015	11 Prairie Habitats.....	1-204-467-9371
3 Canterra Seeds	1-877-439-7333	12 Progressive Seeds Ltd.	1-403-782-6169
4 Dyck Forages and Grasses Ltd.....	1-888-204-1000	13 Public Variety.....	Contact your local MAFRD FPA
5 Federated Coops Ltd.....	1-306-664-1700	14 SeCan	1-800-665-7333
6 Interlake Forage Seeds	1-800-990-1390	15 S.S. Johnson Seeds	1-800-363-9442
7 Northstar Seed Ltd.....	1-800-430-5955	16 Vandaele Seeds Ltd.	1-204-665-2384
8 Oldenburg Inc.....	1-204-348-2294	17 Crop Production Services Canada.....	1-800-661-3334
9 Pickseed Canada	1-800-263-7425		

DISTRIBUTOR CONTACTS — Corn Silage

Delmar Commodities.....	Legend Seeds	1-204-331-3696	DLF Pickseed Canada Inc.....	PICKSEED	1-204-633-0088
Elite.....	BrettYoung	1-800-665-5015	DuPont Pioneer	Pioneer	1-800-265-9435
Hyland Seeds	Hyland	1-204-745-7656	PRIDE Seeds		1-800-265-5280
Maizex Seeds Inc.		1-877-682-1720	Quarry Seed.....	Thunder Seed Inc.	1-888-274-9243
Monsanto Canada Inc.	DEKALB	1-800-667-4944			

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Growers List



ALFALFA

S=Select; F=Foundation; R=Registered; C=Certified; ☼ Indicates Plant Breeders' Rights protected. Other varieties may have PBR protection pending.

135	Winnipeg; Pickseed Canada Inc.....	204-633-0088	C
2010	St. Norbert; Brett-Young Seeds Limited.....	204-261-7932	C
3010	St. Norbert; Brett-Young Seeds Limited.....	204-261-7932	C
4010BR	St. Norbert; Brett-Young Seeds Limited.....	204-261-7932	C
4020MF	St. Norbert; Brett-Young Seeds Limited.....	204-261-7932	F C
4030	St. Norbert; Brett-Young Seeds Limited.....	204-261-7932	C
5010	St. Norbert; Brett-Young Seeds Limited.....	204-261-7932	C
55Q27	Fisher Branch; Gregory, Lee R. & Adam.....	204-372-6720	C
ABLE	Winnipeg; Pickseed Canada Inc.....	204-633-0088	C
AC BRADOR	Neepawa; Northstar Seed Ltd.....	204-476-5241	C
AC CARIBOU	St. Norbert; Brett-Young Seeds Limited.....	204-261-7932	F
AC MELODIE	Neepawa; Northstar Seed Ltd.....	204-476-5241	C

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ACTIS	St. Norbert; Brett-Young Seeds Limited.....	204-261-7932	C
ADRENALIN	St. Norbert; Brett-Young Seeds Limited.....	204-261-7932	C
AKORI	Winnipeg; Pickseed Canada Inc.....	204-633-0088	C
ALGONQUIN	Hodgson; Shergold, Neil & Carla	204-372-6490	C
	Lundar; Janke, Bruce	204-762-5853	C
ASSALT ST	Winnipeg; Pickseed Canada Inc.....	204-633-0088	C
BARRICADE SLT	St. Norbert; Brett-Young Seeds Limited.....	204-261-7932	F C
CALYPSO	St. Norbert; Brett-Young Seeds Limited.....	204-261-7932	F C
CONCEPT	St. Norbert; Brett-Young Seeds Limited.....	204-261-7932	C
DAKOTA	Neepawa; Northstar Seed Ltd.....	204-476-5241	C
ENDURANCE	Neepawa; Northstar Seed Ltd.....	204-476-5241	F
FORCE	Neepawa; Northstar Seed Ltd.....	204-476-5241	C
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