

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 2011 Yield or Quality Tables

Numbers in brackets indicate site years. Site Years Tested is the number of locations added up over the years that a 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 small % CV is desirable.

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

Forage Crops



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Manitoba Agriculture, Food and Rural Initiatives Variety Guide

FORAGE CULTIVAR EVALUATION

The Manitoba Forage Council operates the Forage Cultivar Evaluation Program. 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, 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 2011.

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 3 years. The program has also developed test procedures to evaluate persistence, winter-hardiness and grazing tolerance.

The Manitoba Forage Council publishes results from the forage evaluation trials with detailed information on forage production. These reports are available from Manitoba Agriculture, Food and Rural Initiatives (MAFRI) offices, MAFRI Forage specialists, Rangeland and Pasture specialists, and the Manitoba Forage Council.

Support for Forage Cultivar Evaluation 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 Initiatives
Agricultural Sustainability Initiative
Green Cover Program – Agriculture and Agri-Food Canada
Viterra

The Western Forage Variety Testing System
Manitoba Forage Council
Manitoba Forage Seed Association
Parkland Crop Diversification Foundation
Prairies East Sustainable Agricultural Initiative
S.S. Johnson Seeds

Westman Agricultural Diversification Org.
Manitoba Corn Growers Association
Crop Diversification Center - University of Saskatchewan with funding from Saskatchewan Pulse Growers and Saskatchewan Agriculture and Food

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.

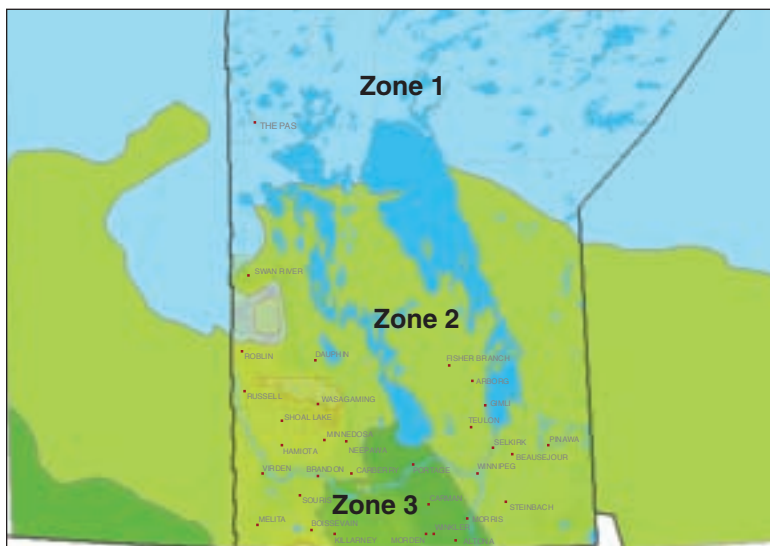
NATIVE GRASSES

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 Initiatives – Forage Adaptation & Comparison Guide

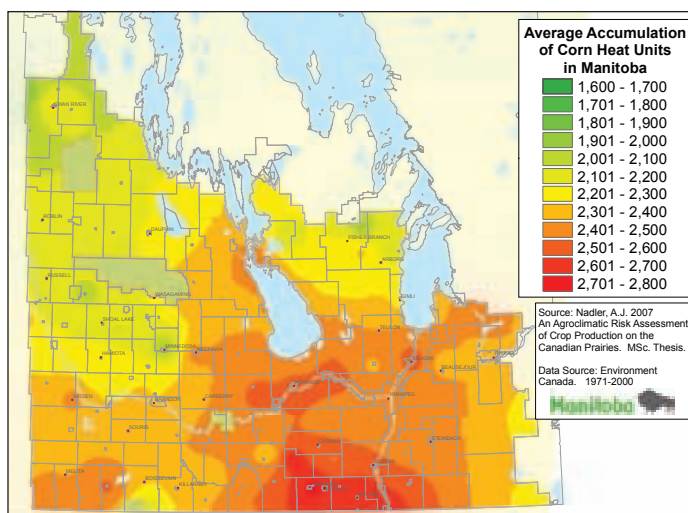
ALFALFA WINTER HARDINESS

This Plant Hardiness Zones (2000) map outlines the different zones within Manitoba where various types of plants (including alfalfa) will likely survive the winter. It is based on 30-year average climatic conditions of each area (min. and max. temperatures, frost-free period, summer and January rainfall, snow cover, wind speed, elevation). Hardiness Zone ratings are to be used only as guideline when selecting varieties as many factors influence overwintering ability (such as snow cover, timing of cold weather, location of plants in the landscape, relative health of plants as they enter winter). Always use optimum management techniques to ensure winter survival when choosing a variety with slightly poorer overwintering rating.



CORN HEAT UNIT ACCUMULATION

Corn heat units (CHU) are closely related to corn development. CHU is better than calendar days or growing degree days because CHU's only accumulate when night temperatures are above 4.4°C and day temperatures above 10°C, and maximum growth occurs at 30°C and decreases with higher temperatures. The map above indicates 30-year average accumulation of CHU in varying regions in the province.



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www.manitoba.ca/agriculture/research/ardi
(en anglais seulement)

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Manitoba

ANNUAL FORAGE — Variety Descriptions

Disease Resistance Ratings ³												
Variety ¹	Seed Source	Awned or Hooded	Rough or Smooth Awns	Days to Maturity (Robust) ²	Lodging	Stem Rust	Loose Smut	Surface borne Smut	Root Rot	Netted Net Blotch	Spotted Net Blotch	Spot Blotch
BARLEY												
AC Lacombe (6)☼	17	A	S	-1	G	MR	MS	MR	MS	MS	MR	I
AC Ranger (6F)	5	A	S	0	G	MR	MS	I	MR	I	MR	MR
AC Rosser (6)☼	17	A	S	+2	F	MR	MS	MR	MR	I	MR	MR
Binscarth (6F)	21	A	R	-2	G	MR	I	MR	MR	I	n/a	MR
CDC Austenson	17	A	R	0	G	I	S	R	I	MS	R	MR
CDC Cowboy (2F)☼	17	A	R	0	G	MR	MS	MR	I	I	MR	I
CDC Mindon (2)☼	17	A	R	0	G	I	R	R	n/a	S	MR	I
Champion (2)☼	20	A	R	-1	G	I	S	R	n/a	S	I	MS
Chigwell	17	A	S	1	G	S	MS	R	S	I	MR	MR
Desperado	22	A	S	0	G	MR	MS	R	MR	S	MR	MR
Lacey (6W)☼	22	A	SS	0	G	MR	I	MR	MR	S	I	MR
Robust (6W)	4	A	S	89 days	G	MR	I	I	I	S	MS	MR
Sommerville (6F)	7	A	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Viriden (6F)	17	A	SS	+2	VG	MR	MS	I	MR	MS	MR	MR
Vivar (6)☼	17	A	R	-1	VG	MR	I	R	MR	R	MR	I
Xena (2)☼	20	A	R	0	G	MR	MS	MS	MR	S	I	S
Hulless												
AC Bacon (6)	17	A	S	-1	F	I	MS	I	I	MS	n/a	I
CDC Freedom (2)	17	A	R	-1	G	I	MS	MR	I	MR	n/a	I
Falcon (6) ☼	14	A	S	-1	VG	MR	MS	MR	I	I	n/a	I
Variety ⁴	Seed Source	Days to Maturity (AC Assiniboia) ²			Disease Resistance Level ³							
		Lodging	Stem Rust	Crown Rust	Smut	BYDV						
OATS												
AC Assiniboia☼	20			95 days	VG	I	S	R	I			
AC Medallion	4			+1	F	I	I	R	MS			
AC Mustang	23			-5	G	S	S	MS	MS			
CDC Baler	5			+5	G	S	S	R	MS			
CDC Boyer	17			-2	G	I	I	MS	MS			
CDC Pacer	5			0	F	S	MS	MR	MS			
Dumont	17			+1	F	I	MS	R	MS			
Furlong☼	3			0	G	I	S	R	MR			
Jordan☼	17			3	VG	I	I	R	MR			
Murphy☼	17			+5	G	S	MS	MS	MS			
Pinnacle☼	5			+4	G	I	S	R	MS			
Triactor☼	3			0	VG	S	MR	I	MS			
Triple Crown☼	5			-3	VG	S	MS	MR	MS			
Variety	Seed Source	Days to Maturity (Banjo) ²			Disease Resistance Level ³							
		Lodging	Stem Rust	Leaf Rust	Bunt	Fusarium						
TRITICALE												
AC Alta	14			-1	G	R	R	R	n/a			
AC Certa	14			-3	G	R	R	R	I			
Banjo	5			100 days	G	R	R	R	n/a			
Bumper ☼	17			-3	G	R	R	R	n/a			
Bunker☼	5			3	G	R	R	R	n/a			
Pronghorn	14			-4	G	R	R	R	MR			
SANDRO	5			-3	G	R	R	R	n/a			
Tyndal☼	17			-3	G	R	R	R	MS			



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ANNUAL FORAGE — Variety Descriptions (continued)

Variety	Seed Source	Leaf Type	Vine Length (cm)	Maturity Rating ²	Disease Resistance Level ³		
					Lodging	Powdery Mildew	Mycosphaerella Blight
PEAS							
40-10	5	Normal	100	Long	P	P	P
CDC Leroy	16	SemiLeafless	80	Medium	G	VG	F
CDC Minuet	16	SemiLeafless	70	Medium	F	VG	F
CDC Sonata	16	Normal	85	Long	F	VG	F
CDC Tucker	16	SemiLeafless	80	Medium	G	VG	F
Trapper	17	Normal	100	Long	P	P	P
	Seed Source	Seed Color	Seed Size (seeds/lb)	Days to Maturity ²	Days to Head		
FOXTAIL MILLET							
Yellow (Golden German)	15	Yellow	160-170,000	95-110	75-90		
Red (Siberian)	15	Red	169-170,000	70-90	55-70		
PROSO MILLET							
Green (Crown)	15	Gray/Green	70-90,000	85-90	50-60		
Red (Cerise)	15	Red	70-90,000	85	50-60		
Yellow (AC Prairie Gold)	20	Yellow	70-90,000	75	50-60		

1 Values in brackets indicate row and type: 2 = two-row; 6 = six-row; W = white aleurone (all others yellow); F = fodder.

2 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.

3 Resistance to leaf diseases can improve forage quality and yield: (R) Resistant; (MR) Moderately Resistant; (I) Intermediate;

(MS) Moderately Susceptible; (S) Susceptible; (n/a) = not available. See cereal & special crop section in of this guide for more detail of crop tolerances.

4 All varieties are susceptible to new races of NA67 and NA76. These races caused moderate damage to crops in the Red Valley in 2001 & 2002.



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ANNUAL FORAGE — Yield Comparisons

Variety	Manitoba Mean ¹		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		
	% of Virden	% of Ranger												
BARLEY														
AC Lacombe (6)☼	98 (13)	— —	107 (3)	102 (4)	91 (4)	— —	— —	— —	— —	—	—	—	—	—
AC Ranger (6F) ☼	105 (12)	100 (24)	100 (6)	100 (6)	— —	100 (6)	100 (6)	100 (6)	100 (6)	123	9.8	65	1011	(6)
AC Rosser (6)☼	— —	104 (12)	99 (3)	109 (3)	— —	101 (3)	99 (3)	99 (3)	99 (3)	108	10.2	66	920	(6)
Binscarth	— —	98 (20)	96 (5)	96 (5)	— —	102 (5)	98 (5)	98 (5)	98 (5)	115	10.1	65	974	(5)
CDC Austenson(2)☼	— —	100 (4)	102 (1)	101 (1)	— —	88 (1)	102 (1)	102 (1)	102 (1)	123	9.6	63	1099	(1)
CDC Cowboy (2F)☼	— —	103 (24)	101 (6)	97 (6)	— —	103 (6)	110 (6)	110 (6)	110 (6)	112	9.6	63	1018	(6)
CDC Mindon(2)	— —	97 (8)	95 (2)	93 (2)	— —	94 (2)	107 (2)	107 (2)	107 (2)	133	9.0	64	1043	(2)
Champion(2)☼	— —	107 (12)	107 (3)	97 (3)	— —	108 (3)	116 (3)	116 (3)	116 (3)	136	12.1	65	1185	(3)
Chigwell(6)☼	— —	96 (4)	87 (1)	97 (1)	— —	98 (1)	103 (1)	103 (1)	103 (1)	115	8.8	62	1038	(1)
Desperado(6F)☼	— —	105 (4)	104 (1)	104 (1)	— —	104 (1)	111 (1)	111 (1)	111 (1)	111	7.7	61	1099	(1)
Lacey (6W)☼	— —	92 (12)	89 (3)	101 (3)	— —	93 (3)	86 (3)	86 (3)	86 (3)	111	10.4	66	878	(3)
Robust (6W)	95 (12)	— —	105 (2)	94 (4)	95 (4)	— —	— —	— —	— —	—	—	—	—	—
Sommerville	95 (12)	— —	106 (1)	95 (4)	95 (4)	— —	94 (1)	94 (1)	94 (1)	146	11.0	66	948	(1)
Virden (6F)	100 (28)	99 (13)	100 (7)	100 (7)	100 (4)	100 (3)	100 (3)	100 (3)	100 (3)	103	10.4	63	910	(3)
Vivar(6)☼	— —	99 (12)	97 (3)	97 (3)	— —	96 (3)	106 (3)	106 (3)	106 (3)	127	9.2	63	1068	(3)
Xena (2)☼	— —	101 (16)	92 (4)	110 (4)	— —	100 (4)	101 (4)	101 (4)	101 (4)	120	9.5	63	1064	(4)
Hulless														
AC Bacon (6)	97 (11)	— —	140 (1)	97 (4)	92 (4)	— —	— —	— —	— —	136	11	65	1066	(1)
CDC Freedom (2)	93 (11)	— —	106 (1)	85 (4)	93 (4)	— —	— —	— —	— —	—	—	—	—	—
Falcon (6) ☼	102 (2)	— —	102 (1)	— —	— —	— —	— —	— —	— —	—	—	—	—	—
Variety	Manitoba Mean ¹		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		
	% of Triple Crown													
OATS														
AC Assiniboia☼	88 (30)		93 (6)	95 (9)	91 (4)	83 (4)	97 (5)	97 (5)	97 (5)	107	10.2	62	936	(5)
Furlong☼	95 (11)		103 (3)	102 (3)	— —	75 (2)	101 (3)	101 (3)	101 (3)	111	11.0	64	997	(3)
Jordan☼	102 (12)		94 (3)	102 (3)	— —	94 (3)	97 (3)	97 (3)	97 (3)	98	9.3	61	1061	(3)
AC Medallion☼	88 (11)		92 (1)	90 (4)	89 (4)	— —	— —	— —	— —	—	—	—	—	—
AC Mustang	93 (20)		91 (5)	94 (5)	— —	96 (5)	92 (5)	92 (5)	92 (5)	102	10.8	62	985	(5)
CDC Baler	99 (15)		106 (4)	99 (4)	— —	94 (3)	98 (4)	98 (4)	98 (4)	104	11.0	62	1051	(4)
CDC Bell	110 (4)		108 (1)	130 (1)	— —	100 (1)	100 (1)	100 (1)	100 (1)	100	10.3	61	1117	(1)
CDC Boyer	— —		— —	— —	— —	— —	— —	— —	— —	—	—	—	—	—
CDC Pacer	94 (11)		99 (1)	94 (4)	96 (4)	— —	— —	— —	— —	—	—	—	—	—
Dumont	90 (11)		95 (1)	94 (4)	88 (4)	— —	— —	— —	— —	—	—	—	—	—
Murphy	99 (11)		98 (3)	100 (3)	— —	93 (2)	103 (3)	103 (3)	103 (3)	97	11.6	59	940	(3)
Pinnacle	95 (26)		99 (5)	99 (8)	100 (4)	90 (3)	94 (4)	94 (4)	94 (4)	100	8.8	60	1049	(3)
Triactor	99 (8)		105 (2)	101 (2)	— —	92 (2)	98 (2)	98 (2)	98 (2)	107	9.2	61	1177	(2)
Triple Crown☼	100 (34)		100 (7)	100 (10)	100 (4)	100 (5)	100 (6)	100 (6)	100 (6)	113	10.4	61	1058	(6)

ANNUAL FORAGE (continued)

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)
Bumper	91 (4)	82 (1)	87 (1)	— —	99 (1)	97 (1)	105	10.1	60	1051	(1)
Bunker	89 (8)	80 (2)	91 (2)	— —	94 (2)	92 (2)	100	9.5	60	903	(3)
Pronghorn	108 (3)	108 (2)	— —	— —	— —	— —	—	—	—	—	—
SANDRO	101 (1)1	81 (1)	108 (4)	98 (4)	— —	— —	—	—	—	—	—
TR-196	88 (4)	92 (1)	72 (1)	— —	97 (1)	89 (1)	106	9.0	61	856	(2)
Tyndal	87 (8)	88 (2)	79 (2)	— —	92 (2)	92 (2)	106.66	10.0	61	900	(3)
Variety	Manitoba Mean ¹ % of 4010	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
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)
Variety	Manitoba Mean ¹ (% of check)	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
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 Dry Matter 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 Dry Matter yield 4639 lb/ac (5195 kg/ha) over 10 site years.											

1 Check varieties for cereal crops depends on the year tested. Virden: 8788 lb/ac (9841 kg/ha) over 28 site years; AC Ranger yield: 6292 lb/ac (7046 kg/ha) over 24 site years; Triple Crown 9927 lb/ac (11,117 kg/ha) over 34 site years; Banjo 10,148 lb/ac (11,366 kg/ha) over 14 site years. Forage Pea check 40-10 with an average yield of 9192 lb/ac (10,320 kg/ha) on 22 site years. Data collected over 6 years (2003-2008) on six sites: Arborg, Roblin (MB), Sutherland, Floral (SK), Lacombe, Edmonton (AB).

2 Forage quality: Barley, Oats, Triticale average values from a Manitoba Forage Council test from 2005-2010 on 4 sites (Arborg, Melita, Roblin, Rosebank). Peas average values from 2006-2007 on 2 sites (Roblin and Arborg).

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.

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*Some restrictions apply.

ALFALFA — Variety Descriptions

Variety	Root Type ¹	Use ²	Type ³	Fall ⁴	Winter	Disease Resistance Ratings: ⁷			Year		Notes ⁸	Seed Source
				Dormancy	Hardiness ⁵	Maturity ⁶	BW	VW	PRR	Registered		
3010	Sunken	H,P	F,V	3.6	1.8	Medium	HR	HR	HR	2010	Sunken crown	2
4010 BR	Branch	H	F	3.6	1.6	Medium	HR	HR	HR	2010	Branch root	2
4020 MF	Taproot	H	F	4	1.8	Medium	HR	HR	HR	2010	Multifoliate	2
53Q60	Taproot	H,P	F,V	3	3.0	Early	HR	R	HR	1999		12
54H91	Taproot	H	—	4	3.0	—	HR	HR	HR	—		12
54Q25	Taproot	H,P	V	4	—	—	HR	HR	HR	2003		12
54V46	Taproot	H	—	4	3.0	—	R	R	R	2004		12
54V54	Taproot	H	V	4	2.5	—	HR	HR	HR	2000		12
Able	Taproot	H,P	F,V	2.5	2.9	Early	HR	HR	HR	1995		11
AC Blue J	Taproot	H	F	—	—	Medium	HR	R	R	1994		17
AC Caribou	Taproot	H	F,V	3	1.9	Early	HR	R	MR	1990		2
AC Grazeland Br	Taproot	P,H	V	2	—	Medium	R	S	—	1998	Bloat reduced	11
AC Longview	Taproot	H	F	3	2.9	Medium	HR	R	—	1999		11
Algonquin	Taproot	H,P	V	2	2.1	Medium	HR	S	S	1973		15
AmeriStand 201+Z	Taproot	H	F	2	1.7	—	HR	HR	HR	2002	Sunken crown	20
Apica	Taproot	H	F	3	2.3	Early	R	S	S	1982		18
Approved	Taproot	H	F	—	—	Medium	HR	HR	HR	2004	Multifoliate	11
Atomic	Taproot	H	F,V	3.8	—	—	HR	R	HR	2000		18
Beaver	Taproot	H,P	V	2	2.1	Medium	R	S	S	1961		15
Concept	Taproot	H,P	P,V	3	2.0	Medium	HR	HR	HR	2004		2
Equinox	Taproot	H	V	3.5	—	Medium	HR	HR	HR	2006		20
Forerunner	Taproot	H	F,V	2	—	Early	HR	HR	HR	1995	Multifoliate	6
Gala	Taproot	H	V	2	2.7	Early	HR	HR	HR	1996	Multifoliate	20
Halo	—	—	—	—	—	—	—	—	—	—		20
HayGrazer	Branch	P,H	V	3	3.5	Early-Medium	HR	R	R	2002	Sunken crown	9
Heinrichs	Creeping	P,H	V	1	2.1	Medium-Late	R	—	—	1981		20
Hornet	Taproot	H	F	—	—	Medium	HR	R	HR	1997		11
Hybriforce 400	Taproot	H,P	—	4	3.0	Medium	HR	R	HR	2003	Hybrid	2
Hybriforce 2410	Taproot	H	—	3.6	1.6	Medium	HR	HR	HR	2010	Hybrid	2
Leader	Taproot	H	—	3.7	1.3	—	HR	HR	HR	2007	Multifoliate	11
Magnum 3801 Wet	Tap/Branch	H	F	3	—	Medium	HR	R	HR	2004		2
Matrix	Creeping	P,H	—	2	—	Medium	HR	MR	R	2004	Resistant pea aphid	8
Multi5301	Taproot	H	V	3	2.9	Early-Medium	HR	R	R	2002	Multifoliate	8,10
Pickseed 2065MF	Taproot	H	V	3.7	2.0	—	HR	R	HR	2000	Multifoliate	11
Pickseed 3006	Creeping	P,H	F,V	2	—	—	HR	MR	MR	1999		11
Quattro HR	Taproot	H	V	—	2.6	Early	HR	R	HR	1996		11
Rambler	Creeping	P,H	V	1	—	Late	MR	S	S	1995		15
Rangelander	Creeping	P,H	V	1	2.0	Late	S	S	S	1978		17
RHINO	Taproot	H	V	3	—	Medium	HR	R	R	2002		9
Runner	Creeping	P,H	V	2	2.6	Medium-Late	HR	S	—	1995		9
Spredor 4	Creeping	P,H	F,V	1.5	—	Medium	HR	HR	HR	2002		20
Spyder	Creeping	P,H	F,V	1	1.0	Medium	HR	R	R	2009		2
Starbuck	Taproot	H	F	3.7	—	—	HR	R	HR	2001	Multifoliate	11
Stealth SF	Taproot	H	V	4	1.9	Early	HR	R	HR	2004		9
Survivor	Taproot	H	F	3	—	Medium	HR	R	HR	1999	Sunken Crown	2
Tophand	Taproot	H	V	4	—	Medium	HR	HR	HR	2004	Multifoliate	9
Trident II	Taproot	H	F,V	3	—	Early	—	—	—	1993		3
Ultra	Taproot	H	F	3	—	Medium	—	—	R	1988		6
Vision	Taproot	H	—	4.4	1.5	—	HR	HR	HR	2009	Multifoliate	11

Check - Beaver Average Dry Matter Yield 8980 lb/ac (10,058 kg/ha) over 149 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 - varieties are low growing, higher grazing tolerance. First letter is preferred use.
- 3 Type: F-Flemish type, purple flowered & early-growing. V-Variegated type, derived from flemish & falcata type crosses. F,V-Mixed type, exhibits both characteristics.
- 4 FD: indicates the varieties characteristic to go dormant in fall. FD 9: will grow vigorously in fall; IFD 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.
- 5 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 winterhardiness was more influential than grazing tolerance to stand persistence under grazing.

ALFALFA — Yield Comparisons

Variety	% Manitoba Mean ⁹						Manitoba Mean		Yield at test sites % of Beaver							
	1st Cut		2nd Cut		3rd Cut		% of Beaver		Arborg		Brandon ¹⁰		Neepawa-Rosebank		Steinbach-St. Pierre ¹¹	
3010	104	(6)	116	(5)	—	—	108	(6)	—	—	—	—	105	(4)	99	(2)
4010 BR	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
4020 MF	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
53Q60	92	(6)	103	(6)	—	—	97	(6)	—	—	—	—	96	(3)	98	(3)
54H91	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	(69)	108	(62)	112	(21)	101	(74)	98	(23)	105	(5)	101	(26)	100	(20)
AC Caribou	105	(13)	110	(13)	143	(10)	108	(13)	107	(5)	104	(4)	113	(3)	111	(1)
AC Grazeland Br ⁶	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)
Algonquin	102	(28)	106	(27)	126	(19)	103	(28)	108	(12)	111	(3)	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)	102	(9)	114	(3)	—	—
Approved	102	(6)	104	(6)	112	(1)	103	(6)	—	—	—	—	103	(3)	103	(3)
Atomic	95	(9)	106	(9)	134	(4)	100	(9)	98	(3)	—	—	94	(3)	108	(3)
Beaver	100	(141)	100	(132)	100	(56)	100	(149)	100	(48)	100	(14)	100	(48)	100	(35)
Concept	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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)	106	(1)	—	—	109	(2)
Halo	—	—	—	—	—	—	107	(1)	—	—	—	—	107	(1)	—	—
HayGrazer	102	(7)	108	(7)	108	(1)	105	(7)	—	—	—	—	107	(4)	103	(3)
Heinrichs	100	(37)	98	(37)	119	(27)	98	(37)	96	(15)	98	(9)	103	(8)	95	(5)
Hornet	100	(13)	117	(12)	210	(8)	110	(13)	116	(6)	—	—	95	(3)	114	(4)
Hybriforce 400	97	(9)	107	(8)	124	(1)	100	(9)	98	(3)	—	—	93	(3)	108	(3)
Hybriforce 2410	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Leader	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Magnum 3801 Wet	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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)
Quattro HR	115	(10)	110	(10)	132	(2)	111	(10)	131	(2)	—	—	104	(5)	106	(3)
Rambler	99	(130)	93	(121)	68	(44)	94	(138)	98	(43)	92	(13)	96	(46)	92	(32)
Rangelander	98	(74)	92	(67)	75	(24)	94	(80)	99	(26)	92	(7)	96	(26)	94	(19)
RHINO	105	(5)	120	(5)	118	(1)	111	(5)	—	—	—	—	109	(2)	113	(3)
Runner	95	(8)	102	(8)	91	(5)	101	(8)	110	(2)	93	(4)	100	(2)	—	—
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)	—	—
Vision	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Check - Beaver Average Dry Matter Yield 8980 lb/ac (10,058 kg/ha) over 149 site years.																

Check - Beaver Average Dry Matter Yield 8980 lb/ac (10,058 kg/ha) over 149 site years.

6 Maturity rating indicates relative comparison of first flowering dates. Early varieties will bloom before late varieties, may provide more cuts/year.

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

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

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

10 Brandon was discontinued in 1995 as a forage variety testing site

11 The Neepawa site was moved to Rosebank in 2004.

12 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	Year Registered	Seed Source
BIRDSFOOT TREFOIL										
AC Langille	95	(5)	P	G	Good	Early	non-bloating	n/a	20	
Bull	97	(3)	P	G	Good	—	non-bloating	1991	11	
Empire	87	(4)	P	F	Medium	—	non-bloating	<1963	15	
Leo	100	(19)	P	G	—	Early	non-bloating	1963	15	
OAC Bright	96	(3)	P	E	Medium	—	non-bloating	n/a	11	
Upstart	102	(5)	P	G	—	—	non-bloating	1986	11	
Check - Leo average Dry Matter Yield 5610 lb/ac (6299 kg/ha) over 19 site years.										
ALSIKE CLOVER										
Frida	—	—	—	—	—	—	—	n/a	11	
CICER MILKVETCH										
AC Oxley II	—	—	—	—	—	—	non-bloating	n/a	2	
Oxley	100	(11)	P	E	—	—	non-bloating	n/a	11	
Windsor	119	(6)	P	E	—	—	non-bloating	n/a	20	
Check - Oxley average Dry Matter Yield 4544 lb/ac (5102 kg/ha) over 11 site years.										
RED CLOVER										
Belle	—	—	H,P	—	—	—	double-cut	n/a	11	
Concorde	—	—	H,P	—	—	—	double-cut	1992	11	
Juliet	—	—	H,P	—	—	—	double-cut	n/a	2	
Prima	—	—	H,P	—	—	—	double-cut	n/a	11	
Wildcat	—	—	—	—	—	—	—	—	2	
YELLOW SWEET CLOVER										
Norgold	100	(1)	H	—	—	Very Early	low coumarin	1981	17	
Yukon	102	(1)	H	—	—	Early	—	1970	15	
Check - Norgold average Dry Matter Yield 4254 lb/ac (4772 kg/ha) over 1 site year.										
SAINFOIN										
Nova	100	(11)	H,P	—	—	—	non-bloating	n/a	17	
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										8,20

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-acute levels.

GRASS SPECIES — Variety Descriptions and Yield Comparisons

Variety	Manitoba Mean % of check		Use ¹	Maturity	Year Registered	Notes ²	Seed Source
ANNUAL RYEGRASS							
Italian							
Barmultra	101	(3)		—	1981		20
Fabio	—	—		—	—		2
Maris Ledger	100	(8)		—	1979		15
Max	—	—		—	n/a		11
Nabucco	99	(3)		Early/medium	2008		9
Check - Maris Ledger average Dry Matter yield 7597 lb/ac (8536 kg/ha) over 8 site years.							
Westerwold							
Aubade	100	(9)		Early	1982		2
Elunaria	101	(3)		—	2008		9
SW Botrus	—	—		—	n/a		11
Sabroso	105	(3)		—	n/a		20
Check - Aubade average Dry Matter yield 7913 lb/ac (8891 kg/ha) over 9 site years.							
CREEPING FOXTAIL							
Garrison	100	(3)	P		n/a		11
Check - Garrison Dry Matter Average yield 2650 lb/ac (2973 kg/ha) over 3 site years.							
CREEPING RED FESCUE							
Boreal	100	(10)	P	Early	1966		15
Check - Boreal average Dry Matter yield 4739 lb/ac (5321kg/ha) over 10 site years.							
CRESTED WHEATGRASS							
AC Goliath	—	—		—	n/a	—	17
AC Parkland	—	—	P	—	n/a	—	11
Fairway	93	(17)	H, P	—	1932	Diploid	15
Kirk	100	(35)	H, P	—	1987	Tetraploid	17
Nordan	93	(17)	H, P	—	1958	Tetraploid	15
Parkway	91	(17)	H, P	—	1969	Diploid	11
Check - Kirk average Dry Matter Yield 5724 lb/ac (6416 kg/ha) over 35 site years.							

Variety	Manitoba Mean % of check		Use ¹	Maturity	Year Registered	Notes ²	Seed Source
INTERMEDIATE WHEATGRASS							
Chief	100	(9)	H	—	1961		17
Clarke	97	(5)	H	—	1980		10
Check - Chief average Dry Matter Yield 5329 lb/ac (5978 kg/ha) over 9 site years.							
MEADOW BROME							
Fleet	100	(40)	P,H	—	1987		17
Montana	99	(15)	P,H	—	n/a		20
MBA	—	—	—	—	n/a		11
Paddock	101	(10)	P,H	Early	1987		17
Check - Fleet average Dry Matter Yield 4807 lb/ac (5383 kg/ha) over 40 site years.							
MEADOW x SMOOTH BROMEGRASS							
AC Success	—	—	P,H	—	n/a	Hybrid	11
Bigfoot	—	—	P,H	—	n/a	Hybrid	2
Knowles ☼	103	(12)	P,H	—	n/a	Hybrid	20
Check - Fleet average Dry Matter Yield 4498 lb/ac (5054 kg/ha) over 12 site years.							
MEADOW FESCUE							
Ensign	100	(25)	P,H	—	1944		11
Epic	—	—	P,H	Early-Medium	n/a		2
Prevail	—	—	—	—	n/a		9
Sigmund	—	—	P,H	Early-Medium	n/a		11
Check - Ensign average Dry Matter Yield 4157 lb/ac (4667 kg/ha) over 25 site years.							
MEADOW FOXTAIL							
Mountain	127	(5)	P	—	1989		15
Check - Dan average Dry Matter Yield 4696 lb/ac (5272 kg/ha) over 7 site years.							
ORCHARDGRASS							
AC Nordic	97	(6)	P,H	Late	1992	Winter Hardiness - VG	2
Arctic	114	(10)	P,H	Medium-Late	1989	Winter Hardiness - E	9
Baridana	—	—	P,H	Late	n/a		20
Early Arctic	—	—	P,H	Medium	n/a	Winter Hardiness - E	9
Kay	100	(53)	P,H	Late	1970	Winter Hardiness - G	11
Killarney	—	—	—	—	n/a		20
Kootaney	—	—	—	—	n/a		20
Okay	—	—	H,P	Very Late	1992	Winter Hardiness - VG	11
Check - Kay average Dry Matter Yield 4487 lb/ac (5029 kg/ha) over 59 site years.							
PUBESCENT WHEATGRASS							
Greenleaf	—	—	P,H	—	1966		20
QUACKGRASS x BLUEBUNCH WHEATGRASS							
NewHy	—	—	P,H	—	n/a		20
REED CANARYGRASS3							
Bellevue	—	—	P, H	Early	1993	Low alkaloid	11
Marathon	—	—	P,H	Medium	n/a	Low alkaloid	9,20
Rival	100	(21)	P,H	—	1985	Low alkaloid	2
Vantage	112	(21)	P,H	Early	1981	Low alkaloid	12
Venture	108	(21)	P,H	Very Early	1987	Low alkaloid	9
Check - Rival average Dry Matter Yield 4746 lb/ac (5324 kg/ha) over 21 site years.							
RUSSIAN WILD RYEGRASS							
Swift	100	(6)	P,H	—	1978		17
Check - Swift average Dry Matter yield 3951lb/ac (4432 kg/ha) over 6 site years.							
SLENDER WHEATGRASS							
Revenue	100	(6)	P,H	—	1970		11
Check - Revenue average Dry Matter yield 3928 lb/ac (4407 kg/ha) over 6 site years.							
SMOOTH BROMEGRASS							
AC Rocket ☼	105	(15)	H	—	2001		20
Baylor	98	(17)	H, P	—	1969		11
Bravo	98	(7)	H, P	Early	1983		11
Carlton	100	(65)	H, P	—	1961		15
Magna	99	(26)	H, P	—	1968		17
Peak	—	—	H, P	—	n/a		11
Signal	—	—	H,P	—	1983		17,20
Check - Carlton average Dry Matter Yield 5857 lb/ac (6559 kg/ha) over 66 site years.							
TALL FESCUE							
Barcel	—	—	H,P	Late	1988		20
Courtenay	100	(28)	P,H	Late	1987	Winter Hardiness - G	9
Dovey	—	—	P,H	—	n/a	Winter Hardiness - G	11
Fuego	—	—	P,H	—	1990		11
Kokanee	96	(9)	P,H	—	n/a	Winter Hardiness - G	2
Maximize	92	(7)	P,H	Late	1990		11
Check - Courtenay average Dry Matter Yield 5751 lb/ac (6441 kg/ha) over 28 site years.							

GRASS SPECIES (continued)

Variety	Manitoba Mean % of check		Use ¹	Maturity	Year Registered	Notes ²	Seed Source
TALL WHEATGRASS							
Orbit	100	(6)	P,H	—	1966		17
Check - Orbit Average Dry Matter yield 4216 lb/ac (4730 kg/ha) over 6 site years.							
TIMOTHY							
Basho	99	(18)	H	Medium	1974		17
Champ	98	(25)	H,P	Early	1967		15
Climax	100	(88)	H,P	Medium-Late	1947		15
Drummond	96	(14)	H	Very Late	1940		11
Farol	74	(10)	H	Late	1985		11,20
Grindstad	99	(9)	H,P	Early	2000		20
Itasca	103	(20)	H,P	Medium	1972		11
Richmond	103	(23)	H,P	Very Early	1976		11
Tuukka	99	(11)	H	Late	1997		19
Limited data for the following marketed varieties.							
Alexander	85	(6)	H	Late	1987		19
Alma	96	(3)	H	Medium	1990		11
Argus	92	(1)	H	Medium-Early	1998		11
Aurora	—	—	—	Late	n/a		2
Bottnia II	104	(5)	H,P	Medium	1985		20
Carola	—	—	H	—	1990		11
Colt	100	(3)	H	Medium	1995		20
Comtal	—	—	H,P	Medium-late	n/a		11
Derby	—	—	—	—	n/a		20
Express	112	(6)	H,P	Medium-Late	n/a		9
Joliette	85	(2)	H	Medium	n/a		11
Mariposa	106	(7)	H,P	Late	1984		11
Nike	101	(3)	H,P	—	1989		11
Promesse	100	(6)	H,P	Medium	1993		2
TimPro	—	—	H	Early	2001		11
Check - Climax average Dry Matter 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							1,2,8,9
Sideoats, Grama, Blue Gramma, Switchgrass and Prairie Cordgrass, Western Wheatgrass.							11,13,19,20
Limited data for the following marketed Cool Season Native Grass Species							
Canada Wildrye, Green Needlegrass, Western Wheatgrass							1,2,8,9
Northern Wheatgrass, Streambank Wheatgrass and, Needle and Thread grass.							11,13,19,20

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

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EXPRESS

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GLACIER

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HOKUO

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KARA

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OVATION

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PRATT

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PROMESSE

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RICHMOND

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TIFFANY

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TILLER

Anola; Chura, Norman R.S.....	204-755-2979	C
Arborg; S.S. Johnson Seeds Limited	204-376-5228	C

TITAN

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TREASURE

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WINNETOU

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