

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 2012 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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45H31 RR 43E01 RR
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45552 RR

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VR 9559 G VR 9557 GS
Red River 1861 RR



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74-44 BL

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6060 RR 5525 CL
6040 RR 5535 CL
6050 RR

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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, 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 2012.

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 pro-

duction 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 Organization

Manitoba Corn Growers Association
Crop Diversification Center - University of Saskatchewan with funding from Saskatchewan Pulse Growers and Saskatchewan Ministry of Agriculture
Canada Manitoba Crop Development 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)

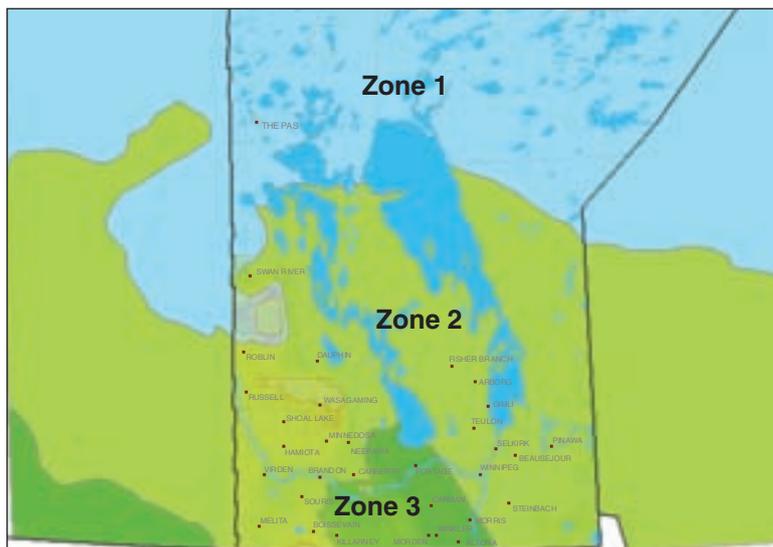
Forage	Use	Longevity	Winter Hardiness	Tolerance to:			Preferred Climate and Growing Conditions
				Drought	Flooding	Salinity	
Kentucky Blue Grass	Pasture Lawn	Long	Excellent	Moderate	Moderate	Low	Prefers cool and humid. Grows on most soils.
Meadow Bromegrass	Hay & Pasture	Long	Good	High	Low	Low	Grows 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 Initiatives – Forage Adaptation & Comparison Guide

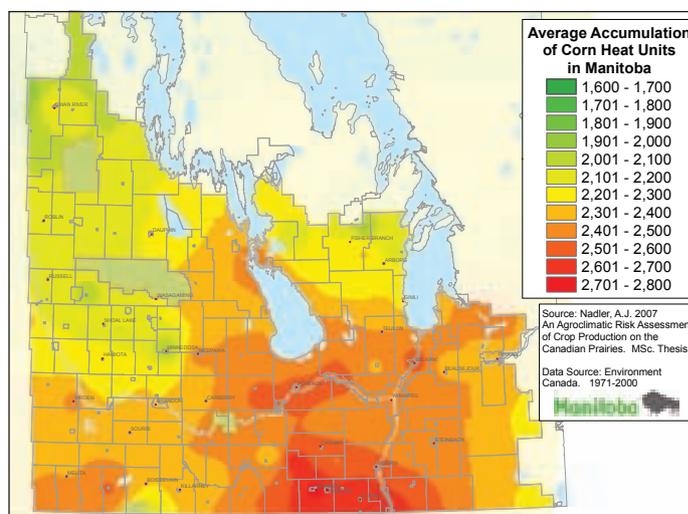
ALFALFA WINTER HARDINESS



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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ANNUAL FORAGE — Variety Descriptions

FORAGE CROPS

Variety ¹	Seed Source	Awned or Hooded	Rough, Smooth or Super Smooth Awns	Days to Maturity (Robust) ²	Lodging	Disease Resistance Ratings ³						
						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	—	MR
CDC Austenson (2)☉	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	—	S	MR	I
Champion (2)☉	20	A	R	-1	G	I	S	R	—	S	I	MS
Chigwell (6)☉	17	A	S	1	G	S	MS	R	S	I	MR	MR
Desperado (6F)☉	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	—	—	—	—	—	—	—	—	—	—
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	MR
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	—	I
CDC Freedom (2)	17	A	R	-1	G	I	MS	MR	I	MR	—	I
Falcon (6)	14	A	S	-1	VG	MR	MS	MR	I	I	—	I

Variety ⁴	Seed Source	Days to Maturity (AC Assiniboia) ²	Lodging	Disease Resistance Level ³			
				Stem Rust	Crown Rust	Smut	BYD
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	15	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☉	15	-3	VG	S	MS	MR	MS

Variety	Seed Source	Days to Maturity (Banjo) ²	Lodging	Disease Resistance Level ³			
				Stem Rust	Leaf Rust	Bunt	Fusarium
TRITICALE							
AC Alta	14	-1	G	R	R	R	—
AC Certa	14	-3	G	R	R	R	I
Banjo	5	100 days	G	R	R	R	—
Bumper ☉	17	-3	G	R	R	R	—
Bunker☉	5	3	G	R	R	R	I
Pronghorn	14	-4	G	R	R	R	MR
SANDRO	5	-3	G	R	R	R	—
Tyndal☉	17	-3	G	R	R	R	MS

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

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; (-) = not available. See Cereal & Special Crops 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.

ANNUAL FORAGE — Variety 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 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)	123	9.8	65	1011	(6)
AC Rosser (6)☼	—	104 (12)	99 (3)	109 (3)	—	101 (3)	99 (3)	108	10.2	66	920	(3)
Binscarth (6F)	—	98 (20)	96 (5)	96 (5)	—	102 (5)	98 (5)	115	10.1	65	974	(5)
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)
Robust (6W)	95 (12)	—	105 (2)	94 (4)	95 (4)	—	—	—	—	—	—	—
Sommerville	95 (12)	—	106 (1)	95 (4)	95 (4)	—	94 (1)	146	11.0	66	948	(1)
Virden (6F)	100 (28)	99 (13)	100 (7)	100 (7)	100 (4)	100 (3)	100 (3)	103	10.4	63	910	(3)
Vivar (6)☼	—	99 (12)	97 (3)	97 (3)	—	96 (3)	106 (3)	127	9.2	63	1068	(3)
Xena (2)☼	—	101 (16)	92 (4)	110 (4)	—	100 (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)	—	—	—	—	—	—	—	—	—

ANNUAL FORAGE (continued)

FORAGE CROPS

Variety	Manitoba Mean ¹ % of Triple Crown		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
OATS												
AC Assiniboia	88	(30)	93 (6)	95 (9)	91 (4)	83 (4)	97 (5)	107	10.2	62	936	(5)
AC Medallion	88	(11)	92 (1)	90 (4)	89 (4)	—	—	—	—	—	—	—
AC Mustang	93	(20)	91 (5)	94 (5)	—	—	96 (5)	92 (5)	102	10.8	62	985 (5)
CDC Baler	99	(15)	106 (4)	99 (4)	—	—	94 (3)	98 (4)	104	11.0	62	1051 (4)
CDC Bell	110	(4)	108 (1)	130 (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)	—	—	—	—	—	—	—
Furlong	95	(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)
Murphy	99	(11)	98 (3)	100 (3)	—	—	93 (2)	103 (3)	97	11.6	59	940 (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)	
TRITICALE												
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
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	(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)
Tyndal	87	(8)	88 (2)	79 (2)	—	—	92 (2)	92 (2)	107	10.0	61	900 (3)
PEAS												
Variety	Manitoba Mean ¹ % of 40-10		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
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												
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
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												
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
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 in 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.

5525 CL CRUSHES NEXERA 2012 CL

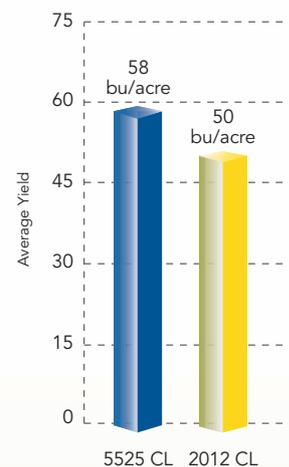
5525 CL

BETTER YIELD, BETTER NET AND COMPLETE MARKETING FLEXIBILITY

5525 CL is a yield-leading variety in all canola production systems, delivering outstanding net returns while you retain complete marketing flexibility. Head-to-head in the 2011 Canola Performance Trials mid-season zone, 5525 CL out-yielded Nexera® 2012 by an average of 8 bu/ac¹. The result: \$50.36¹ per acre more in farmers' pockets even after specialty oil premiums. With the freedom to market 5525 CL anywhere, and high net returns, 5525 CL crushes the competition.

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CANOLA PERFORMANCE TRIALS² 2011



² Data from 2011 Canola Performance Trials – medium season zone.

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¹Based on 2012 Nexera oil premiums and 2012 SR Ps on the seed. For complete details on the trials visit www.canolaperformancetrials.ca

ALFALFA — Variety Descriptions

Variety	Root Type ¹	Use ²	Type ³	Fall ⁴ Dormancy	Winter Hardiness ⁵	Maturity ⁶	Disease Resistance Ratings: ⁷			Year Registered	Notes ⁸	Seed Source
							BW	VW	PRR			
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	Branched root	2
4020 MF	Taproot	H	F	4	1.8	Medium	HR	HR	HR	2010	Multifoliolate	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	Multifoliolate	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	F,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	Multifoliolate	6
Gala	Taproot	H	V	2	2.7	Early	HR	HR	HR	1996	Multifoliolate	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	Multifoliolate	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	Multifoliolate	8,10
Pickseed 2065MF	Taproot	H	V	3.7	2.0	—	HR	R	HR	2000	Multifoliolate	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	1955	—	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	—	1	1.0	Medium-Late	HR	R	R	2009	—	2
Starbuck	Taproot	H	F	3.7	—	—	HR	R	HR	2001	Multifoliolate	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	Multifoliolate	9
Totem	—	—	—	—	—	—	—	—	—	2010	—	—
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	Multifoliolate	11

Check - Beaver Average Dry Matter Yield 8980 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 - varieties are low growing, higher grazing tolerance. First letter is preferred use.
- 3 Type: F-Flemish type, purple flowered & early-growing. V-Variiegated 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; 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.
- 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 % of Beaver	Yield at test sites % of Beaver			
	1st Cut	2nd Cut	3rd Cut		Arborg	Brandon ¹⁰	Neepawa-Rosebank ¹¹	Steinbach-St. Pierre ¹²
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 (70)	107 (63)	112 (21)	101 (75)	98 (24)	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.®	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 (142)	100 (133)	100 (56)	100 (150)	100 (49)	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 (131)	93 (122)	68 (44)	94 (139)	98 (44)	92 (13)	96 (46)	92 (32)
Rangelander	98 (75)	92 (68)	75 (24)	94 (81)	99 (27)	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)
Totem	— —	— —	— —	— —	— —	— —	— —	— —
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 150 site years.

- 6 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.
- 7 Disease Resistance:(HR) highly resistant; (R) resistance; (MR) moderately resistant; (S) susceptible. 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	1995	20
Bull	97 (3)	P	G	Good	—	non-bloating	1991	11
Empire	87 (4)	P	F	Medium	—	non-bloating	1951	15
Leo	100 (19)	P	G	—	Early	non-bloating	1963	15
OAC Bright	96 (3)	P	E	Medium	—	non-bloating	—	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	— —	—	—	—	—	—	—	11
CICER MILKVETCH								
AC Oxley II	— —	—	—	—	—	non-bloating	—	2
Oxley	100 (11)	P	E	—	—	non-bloating	—	11
Windsor	119 (6)	P	E	—	—	non-bloating	—	20
Check - Oxley average Dry Matter Yield 4544 lb/ac (5102 kg/ha) over 11 site years								
RED CLOVER								
Belle	— —	H,P	—	—	—	double-cut	—	11
Concorde	— —	H,P	—	—	—	double-cut	1992	11
Juliet	— —	H,P	—	—	—	double-cut	—	2
Prima	— —	H,P	—	—	—	double-cut	—	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	—	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	— —	—	—	—	—	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	— —	—	—	—	—	11
Sabroso	105 (3)	—	—	—	—	20
Check - Aubade average Dry Matter yield 7913 lb/ac (8891 kg/ha) over 9 site years.						
CREEPING FOXTAIL						
Garrison	100 (3)	P	—	—	—	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.						

Variety	Manitoba Mean % of check	Use ¹	Maturity	Year Registered	Notes ²	Seed Source
CRESTED WHEATGRASS						
AC Goliath	—	—	—	2003	—	17
AC Parkland	—	P	—	1999	—	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.						
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	—	—	—	20
MBA	—	—	—	—	—	11
Cache	99 (8)	P,H	—	—	—	9
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						
Success ☼	—	P,H	—	—	Hybrid	11
Bigfoot	—	P,H	—	—	Hybrid	2
Knowles ☼	103 (12)	P,H	—	—	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	—	—	2
Prevail	—	—	—	—	—	9
Sigmund	—	P,H	Early-Medium	—	—	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	—	—	20
Early Arctic	—	P,H	Medium	—	Winter Hardiness - E	9
Kay	100 (53)	P,H	Late	1970	Winter Hardiness - G	11
Killarney	—	—	—	—	—	17
Kootaney	—	—	—	—	—	17
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	—	—	—	20
REED CANARYGRASS3						
Bellevue	—	P, H	Early	1993	Low alkaloid	11
Marathon	—	P,H	Medium	—	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 DM 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	—	—	—	11
Signal	—	H,P	—	1983	—	17, 20
Check - Carlton average Dry Matter Yield 5857 lb/ac (6559 kg/ha) over 66 site years.						

GRASS SPECIES (continued)

Variety	Manitoba Mean % of check	Use ¹	Maturity	Year Registered	Notes ²	Seed Source
TALL FESCUE						
Barcel	— —	H,P	Late	1988	—	20
Courtenay	100 (28)	P,H	Late	1987	Winter Hardiness - G	9
Dovey	— —	P,H	—	—	Winter Hardiness - G	11
Fuego	— —	P,H	—	1990	—	11
Kokanee	96 (9)	P,H	—	—	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.						
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	—	—	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	—	—	11
Derby	— —	—	—	—	—	20
Express	112 (6)	H,P	Medium-Late	—	—	9
Joliette	85 (2)	H	Medium	—	—	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 gass.						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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