

## 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 Level" 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 2013 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

*"Quality is not an act,  
it is a habit."*

– Aristotle



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## 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 2013.

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.  |

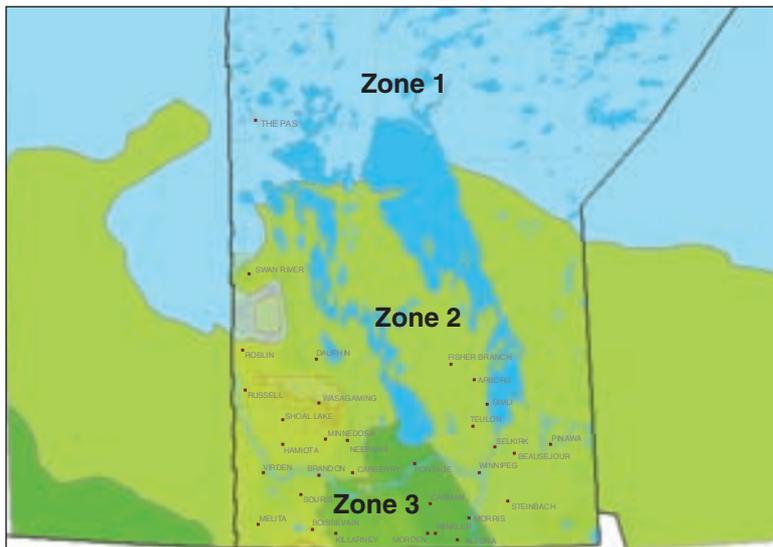
**NATIVE GRASSES**

|                     |                |           |           |                  |                  |                 |   |
|---------------------|----------------|-----------|-----------|------------------|------------------|-----------------|---|
| 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 &amp; Comparison Guide

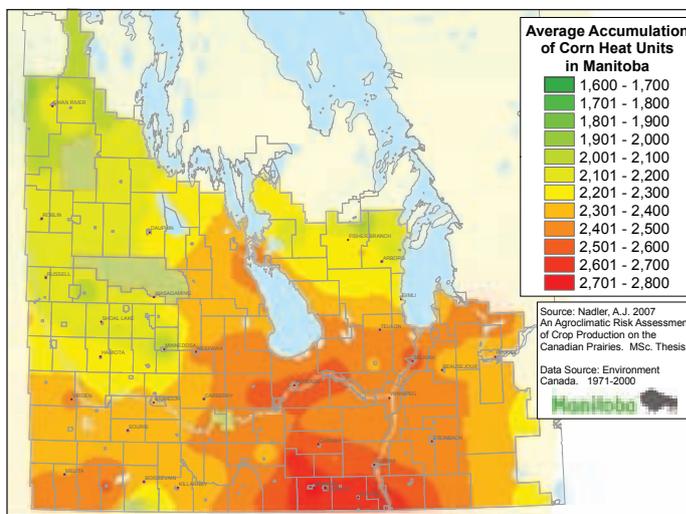
## ALFALFA WINTER HARDINESS

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

| Variety <sup>1</sup>         | Seed Source | Awned or Hooded | Rough, Smooth or Super Smooth Awns | Days to Maturity (Robust) <sup>2</sup> | Resistance Level <sup>3</sup> |           |            |                    |          |                   |                    |             |    |
|------------------------------|-------------|-----------------|------------------------------------|--|-------------------------------|-----------|------------|--------------------|----------|-------------------|--------------------|-------------|----|
|                              |             |                 |                                    |  | Lodging <sup>5</sup>          | Stem Rust | Loose Smut | Surface borne Smut | Root Rot | Netted Net Blotch | Spotted Net Blotch | Spot Blotch |    |
| <b>BARLEY</b>                |             |                 |                                    |  |                               |           |            |                    |          |                   |                    |             |    |
| AC Ranger (6F)               | 5           | A               | S                                  | 0                                      | G                             | MR        | MS         | I                  | MR       | I                 | MR                 | MR          | MR |
| Binscarth (6F)               | 21          | A               | R                                  | -2                                     | G                             | MR        | I          | MR                 | MR       | I                 | —                  | —           | MR |
| CDC Austenson <sup>Ⓢ</sup>   | 17          | A               | R                                  | 0                                      | —                             | —         | S          | R                  | I        | MS                | R                  | MR          | MR |
| CDC Cowboy (2F) <sup>Ⓢ</sup> | 17          | A               | R                                  | 0                                      | G                             | MR        | MS         | MR                 | I        | I                 | MR                 | I           | MR |
| CDC Mindon (2) <sup>Ⓢ</sup>  | 17          | A               | R                                  | 0                                      | G                             | I         | R          | R                  | —        | S                 | MR                 | I           | MR |
| Champion (2) <sup>Ⓢ</sup>    | 20          | A               | R                                  | -1                                     | G                             | I         | S          | R                  | —        | S                 | I                  | —           | MS |
| Chigwell <sup>Ⓢ</sup>        | 17          | A               | S                                  | 1                                      | —                             | S         | MS         | R                  | S        | I                 | MR                 | —           | MR |
| Desperado <sup>Ⓢ</sup>       | 22          | A               | S                                  | 0                                      | —                             | MR        | MS         | R                  | MR       | S                 | MR                 | —           | MR |
| Lacey (6W) <sup>Ⓢ</sup>      | 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 |
| Xena (2)                     | 20          | A               | R                                  | 0                                      | G                             | MR        | MS         | MS                 | MR       | S                 | I                  | —           | S  |
| <b>Hulless</b>               |             |                 |                                    |  |                               |           |            |                    |          |                   |                    |             |    |
| Falcon (6)                   | 14          | A               | S                                  | -1                                     | VG                            | MR        | MS         | MR                 | I        | I                 | —                  | —           | I  |

| Variety <sup>4</sup>      | Seed Source | Days to Maturity (AC Assiniboia) <sup>2</sup> | Resistance Level <sup>3</sup> |           |            |      |      |
|---------------------------|-------------|---|-------------------------------|-----------|------------|------|------|
|                           |             |   | Lodging <sup>5</sup>          | Stem Rust | Crown Rust | Smut | BYDV |
| <b>OATS</b>               |             |   |                               |           |            |      |      |
| 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 Pacer                 | 5           | 0   | F                             | S         | MS         | MR   | MS   |
| Furlong <sup>Ⓢ</sup>      | 3           | 0   | G                             | I         | S          | R    | MR   |
| Jordan <sup>Ⓢ</sup>       | 17          | 3   | VG                            | I         | I          | R    | MR   |
| Pinnacle <sup>Ⓢ</sup>     | 5           | +4  | G                             | I         | S          | R    | MS   |
| Triactor <sup>Ⓢ</sup>     | 3           | 0   | VG                            | S         | MR         | I    | MS   |
| Triple Crown <sup>Ⓢ</sup> | 5           | -3  | VG                            | S         | MS         | MR   | MS   |

| Variety             | Seed Source | Days to Maturity (Banjo) <sup>2</sup> | Resistance Level <sup>3</sup> |           |           |      |          |
|---------------------|-------------|---------------------------------------|-------------------------------|-----------|-----------|------|----------|
|                     |             |                                       | Lodging <sup>5</sup>          | Stem Rust | Leaf Rust | Bunt | Fusarium |
| <b>TRITICALE</b>    |             |                                       |                               |           |           |      |          |
| 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 <sup>Ⓢ</sup> | 17          | -3                                    | G                             | R         | R         | R    | —        |
| Bunker <sup>Ⓢ</sup> | 5           | 3                                     | G                             | R         | R         | R    | I        |
| Pronghorn           | 14          | -4                                    | G                             | R         | R         | R    | I        |
| SANDRO              | 5           | -3                                    | G                             | R         | R         | R    | —        |
| Tyndal <sup>Ⓢ</sup> | 17          | -3                                    | G                             | R         | R         | R    | MS       |

| Variety                  | Seed Source | Leaf Type    | Maturity Rating      | Vine Length (cm) | Resistance Level <sup>5</sup> |                |                       |
|--------------------------|-------------|--------------|----------------------|------------------|-------------------------------|----------------|-----------------------|
|                          |             |              |                      |                  | Lodging                       | Powdery Mildew | Mycosphaerella Blight |
| <b>PEAS</b>              |             |              |                      |                  |                               |                |                       |
| 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 <sup>2</sup> |                |                       |
| <b>FOXTAIL MILLET</b>    |             |              |                      |                  |                               |                |                       |
| Yellow (Golden German)   | 15          | Yellow       | 160-170,000          | 75-90            | 95-110                        |                |                       |
| Red (Siberian)           | 15          | Red          | 169-170,000          | 55-70            | 70-90                         |                |                       |
| <b>PROSO MILLET</b>      |             |              |                      |                  |                               |                |                       |
| 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 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.

5 For lodging and pea disease ratings, (VG) Very Good; (G) Good; (F) Fair; (P) Poor; (VP) Very Poor; (—) = not available.

## ANNUAL FORAGE — Yield Comparisons

| Variety           | Manitoba Mean <sup>1</sup> |             | Yield at Test Sites % of check <sup>1</sup> |                       |                      |          |         | Forage Quality <sup>2</sup> |        |         |                            |            |
|-------------------|----------------------------|-------------|---|-----------------------|----------------------|----------|---------|-----------------------------|--------|---------|----------------------------|------------|
|                   | % of Virden                | % of Ranger | Arborg                                      | Boissevain/<br>Melita | Hamiota<br>Minnedosa | Rosebank | Roblin  | RFV (%)                     | CP (%) | TDN (%) | Beef <sup>3</sup> (lbs/ac) | Site Years |
| <b>BARLEY</b>     |                            |             |   |                       |                      |          |         |                             |        |         |                            |            |
| AC Ranger (6F)    | 105 (12)                   | 100 (24)    | 100 (6)                                     | 100 (6)               | — —                  | 100 (6)  | 100 (6) | 123                         | 9.8    | 65      | 1011 (6)                   |            |
| Binscarth         | —                          | 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)                    |            |
| Xena (2)          | —                          | 101 (16)    | 92 (4)                                      | 110 (4)               | — —                  | 100 (4)  | 101 (4) | 120                         | 9.5    | 63      | 1064 (4)                   |            |
| <b>Hulless</b>    |                            |             |   |                       |                      |          |         |                             |        |         |                            |            |
| Falcon (6)        | 102 (2)                    | —           | 102 (1)                                     | — —                   | — —                  | — —      | — —     | —                           | —      | —       | —                          |            |

**ANNUAL FORAGE — Yield Comparisons (continued)**

FORAGE CROPS

| Variety       | Manitoba Mean <sup>1</sup><br>% of Triple Crown |      | Yield at Test Sites % of check <sup>1</sup> |                       |                      |          |         | Forage Quality <sup>2</sup> |           |            |                               |               |
|---------------|---|------|---|-----------------------|----------------------|----------|---------|-----------------------------|-----------|------------|-------------------------------|---------------|
|               |   |      | Arborg                                      | Boissevain/<br>Melita | Hamiota<br>Minnedosa | Rosebank | Roblin  | RFV<br>(%)                  | CP<br>(%) | TDN<br>(%) | Beef <sup>3</sup><br>(lbs/ac) | Site<br>Years |
| <b>OATS</b>   |   |      |   |                       |                      |          |         |                             |           |            |                               |               |
| 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 Pacer     | 94  | (11) | 99 (1)                                      | 94 (4)                | 96 (4)               | —        | —       | —                           | —         | —          | —                             | —             |
| 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 <sup>1</sup><br>% of Banjo |      | Yield at Test Sites % of check <sup>1</sup> |                       |                      |          |        | Forage Quality <sup>2</sup> |           |            |                               |               |
|------------------|--|------|---|-----------------------|----------------------|----------|--------|-----------------------------|-----------|------------|-------------------------------|---------------|
|                  |  |      | Arborg                                      | Boissevain/<br>Melita | Hamiota<br>Minnedosa | Rosebank | Roblin | RFV<br>(%)                  | CP<br>(%) | TDN<br>(%) | Beef <sup>3</sup><br>(lbs/ac) | Site<br>Years |
| <b>TRITICALE</b> |  |      |   |                       |                      |          |        |                             |           |            |                               |               |
| 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) | 106.66                      | 10.0      | 61         | 900                           | (3)           |

| Variety       | Manitoba Mean <sup>1</sup><br>% of 4010 |      | Yield at Test Sites % of check <sup>1</sup> |                       |                      |          |         | Forage Quality <sup>2</sup> |           |            |                               |               |
|---------------|---|------|---|-----------------------|----------------------|----------|---------|-----------------------------|-----------|------------|-------------------------------|---------------|
|               |   |      | Arborg                                      | Boissevain/<br>Melita | Hamiota<br>Minnedosa | Rosebank | Roblin  | RFV<br>(%)                  | CP<br>(%) | TDN<br>(%) | Beef <sup>3</sup><br>(lbs/ac) | Site<br>Years |
| <b>PEAS</b>   |   |      |   |                       |                      |          |         |                             |           |            |                               |               |
| 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)           |

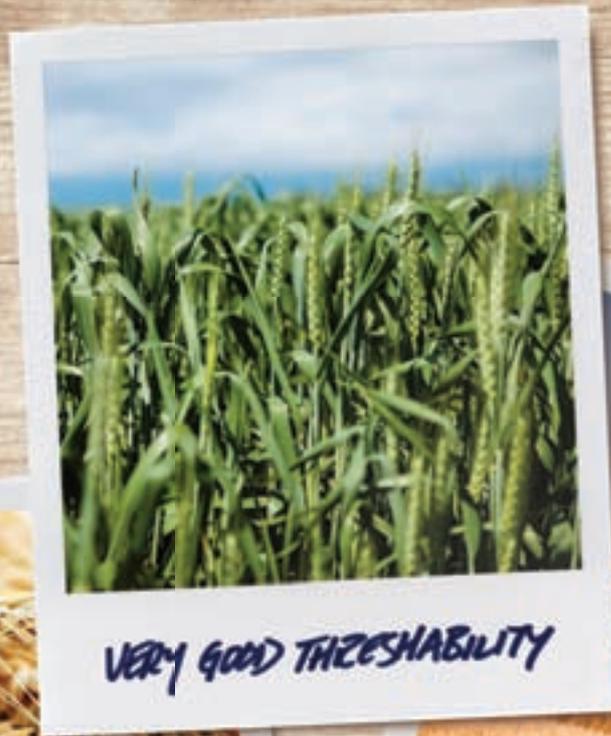
| Variety   | Manitoba Mean <sup>1</sup><br>(% of check) |     | Yield at Test Sites % of check <sup>1</sup> |                       |                      |          |         | Forage Quality <sup>2</sup> |           |            |                               |               |
|---|--|-----|---|-----------------------|----------------------|----------|---------|-----------------------------|-----------|------------|-------------------------------|---------------|
|   |  |     | Arborg                                      | Boissevain/<br>Melita | Hamiota<br>Minnedosa | Rosebank | Roblin  | RFV<br>(%)                  | CP<br>(%) | TDN<br>(%) | Beef <sup>3</sup><br>(lbs/ac) | Site<br>Years |
| <b>FOXTAIL MILLET</b>   |  |     |   |                       |                      |          |         |                             |           |            |                               |               |
| 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. |  |     |   |                       |                      |          |         |                             |           |            |                               |               |

| Variety  | Manitoba Mean <sup>1</sup><br>(% of check) |      | Yield at Test Sites % of check <sup>1</sup> |                       |                      |          |         | Forage Quality <sup>2</sup> |           |            |                               |               |
|--|--|------|---|-----------------------|----------------------|----------|---------|-----------------------------|-----------|------------|-------------------------------|---------------|
|  |  |      | Arborg                                      | Boissevain/<br>Melita | Hamiota<br>Minnedosa | Rosebank | Roblin  | RFV<br>(%)                  | CP<br>(%) | TDN<br>(%) | Beef <sup>3</sup><br>(lbs/ac) | Site<br>Years |
| <b>PROSO MILLET</b>  |  |      |   |                       |                      |          |         |                             |           |            |                               |               |
| 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. |  |      |   |                       |                      |          |         |                             |           |            |                               |               |

1 Check varieties for cereal crops depends on the year tested. Virten: 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: 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.



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# ALFALFA — Variety Descriptions

| Variety                      | Root Type <sup>1</sup> | Use <sup>2</sup> | Fall <sup>3</sup> | Winter                 | Maturity <sup>5</sup> | Resistance Level: <sup>6</sup> |    |     | Year       | Notes <sup>7</sup>                                | Seed   |
|------------------------------|------------------------|------------------|-------------------|------------------------|-----------------------|--------------------------------|----|-----|------------|---|--------|
|                              |                        |                  | Dormancy          | Hardiness <sup>4</sup> |                       | BW                             | VW | PRR | Registered |   | Source |
| 53Q60                        | Taproot                | H,P              | 3                 | 3.0                    | Early                 | HR                             | R  | HR  | 1999       |   | 12     |
| 54Q25                        | Taproot                | H,P              | 4                 | —                      | —                     | HR                             | HR | HR  | 2003       |   | 12     |
| 54V46                        | Taproot                | H                | 4                 | 3.0                    | —                     | R                              | R  | R   | 2004       |   | 12     |
| 54V54                        | Taproot                | H                | 4                 | 2.5                    | —                     | HR                             | HR | HR  | 2000       |   | 12     |
| Able                         | Taproot                | H,P              | 2.5               | 2.9                    | Early                 | HR                             | HR | HR  | 1995       |   | 11     |
| AC Blue J                    | Taproot                | H                | —                 | —                      | Medium                | HR                             | R  | R   | 1994       |   | 17     |
| AC Grazeland Br <sup>®</sup> | Taproot                | P,H              | 2                 | —                      | Medium                | R                              | S  | —   | 1998       | Bloat reduced                                     | 11     |
| AC Longview                  | Taproot                | H                | 3                 | 2.9                    | Medium                | HR                             | R  | —   | 1999       |   | 11     |
| Algonquin                    | Taproot                | H,P              | 2                 | 2.1                    | Medium                | HR                             | S  | S   | 1973       |   | 15     |
| AmeriStand 201+Z             | Taproot                | H                | 2                 | 1.7                    | —                     | HR                             | HR | HR  | 2002       | Sunken crown                                      | 20     |
| Apica                        | Taproot                | H                | 3                 | 2.3                    | Early                 | R                              | S  | S   | 1982       |   | 18     |
| Beaver                       | Taproot                | H,P              | 2                 | 2.1                    | Medium                | R                              | S  | S   | 1961       |   | 15     |
| Equinox                      | Taproot                | H                | 3.5               | —                      | Medium                | HR                             | HR | HR  | 2006       |   | 20     |
| Forerunner                   | Taproot                | H                | 2                 | —                      | Early                 | HR                             | HR | HR  | 1995       | Multifoliate                                      | 6      |
| Gala                         | Taproot                | H                | 2                 | 2.7                    | Early                 | HR                             | HR | HR  | 1996       | Multifoliate                                      | 20     |
| Halo                         | Taproot                | H                | 4                 | —                      | —                     | R                              | R  | R   | 2010       | (HR)-Anthracnose,<br>Fusarium;<br>(R)-Aphanomyces | 20     |
| Heinrichs                    | Creeping               | P,H              | 1                 | 2.1                    | Medium-Late           | R                              | —  | —   | 1981       |   | 20     |
| Matrix                       | Creeping               | P,H              | 2                 | —                      | Medium                | HR                             | MR | R   | 2004       | Resistant pea aphid                               | 8      |
| Multi5301                    | Taproot                | H                | 3                 | 2.9                    | Early-Medium          | HR                             | R  | R   | 2002       | Multifoliate                                      | 8,10   |
| Pickseed 2065MF              | Taproot                | H                | 3.7               | 2.0                    | —                     | HR                             | R  | HR  | 2000       | Multifoliate                                      | 11     |
| Pickseed 3006                | Creeping               | P,H              | 2                 | —                      | —                     | HR                             | MR | MR  | 1999       |   | 11     |
| Rambler                      | Creeping               | P,H              | 1                 | —                      | Late                  | MR                             | S  | S   | 1995       |   | 15     |
| Rangelander                  | Creeping               | P,H              | 1                 | 2.0                    | Late                  | S                              | S  | S   | 1978       |   | 17     |
| Runner                       | Creeping               | P,H              | 2                 | 2.6                    | Medium-Late           | HR                             | S  | —   | 1995       |   | 9      |
| Spredor 4                    | Creeping               | P,H              | 1.5               | 2.0                    | Medium                | HR                             | HR | HR  | 2002       |   | 20     |
| Spyder                       | Creeping               | P,H              | 1                 | 1.0                    | Medium-Late           | HR                             | R  | R   | 2009       |   | 2      |
| Starbuck                     | Taproot                | H                | 3.7               | —                      | —                     | HR                             | R  | HR  | 2001       | Multifoliate                                      | 11     |
| Stealth SF                   | Taproot                | H                | 4                 | 1.9                    | Early                 | HR                             | R  | HR  | 2004       |   | 9      |
| Survivor                     | Taproot                | H                | 3                 | —                      | Medium                | HR                             | R  | HR  | 1999       | Sunken Crown                                      | 2      |
| Tophand                      | Taproot                | H                | 4                 | —                      | Medium                | HR                             | HR | HR  | 2004       | Multifoliate                                      | 9      |
| Trident II                   | Taproot                | H                | 3                 | —                      | Early                 | —                              | —  | —   | 1993       |   | 3      |
| Ultra                        | Taproot                | H                | 3                 | —                      | Medium                | —                              | —  | R   | 1988       |   | 6      |

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 - varieties are 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 and Grassland Assoc. 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.
- 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.

# ALFALFA — Yield Comparisons

| Variety                      | % Manitoba Mean <sup>8</sup> |           |          | Manitoba Mean<br>% of Beaver | Yield at test sites % of Beaver |                      |                                |                                    |
|------------------------------|------------------------------|-----------|----------|------------------------------|---------------------------------|----------------------|--------------------------------|------------------------------------|
|                              | 1st Cut                      | 2nd Cut   | 3rd Cut  |                              | Arborg                          | Brandon <sup>9</sup> | Neepawa-Rosebank <sup>10</sup> | Steinbach-St. Pierre <sup>11</sup> |
| 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)                         | 105 (5)              | 101 (26)                       | 100 (20)                           |
| AC Grazeland Br <sup>®</sup> | 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)                        | —                                  |
| Beaver                       | 100 (142)                    | 100 (133) | 100 (56) | 100 (150)                    | 100 (49)                        | 100 (14)             | 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)                         | 106 (1)              | —                              | 109 (2)                            |
| Halo                         | —                            | —         | —        | 107 (1)                      | —                               | —                    | 107 (1)                        | —                                  |
| Heinrichs                    | 100 (37)                     | 98 (37)   | 119 (27) | 98 (37)                      | 96 (15)                         | 98 (9)               | 103 (8)                        | 95 (5)                             |
| 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)                         | 92 (13)              | 96 (46)                        | 92 (32)                            |
| Rangelander                  | 98 (75)                      | 92 (68)   | 75 (24)  | 94 (81)                      | 99 (27)                         | 92 (7)               | 96 (26)                        | 94 (19)                            |
| 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)                        | —                                  |

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

- 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.
- 8 These numbers represent the long term average yields as a percent of Beaver, on a per cut basis.
- 9 Brandon was discontinued in 1995 as a forage variety testing site.
- 10 The Neepawa site was moved to Rosebank in 2004.
- 11 The St.Pierre site was moved to St.Adolphe in 2009. The average mean yields in this column contain data from the following: St. Adolphe (2009-2011); St.Pierre (1999-2008); Steinbach (1993-1998).

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

| Variety   | Manitoba Mean<br>% of check |      |     | Use <sup>1</sup> | Winter<br>Hardiness <sup>2</sup> | Regrowth   | Maturity     | Notes <sup>3</sup> | Year<br>Registered | Seed<br>Source |
|---|-----------------------------|------|-----|------------------|----------------------------------|------------|--------------|--------------------|--------------------|----------------|
| <b>BIRDSFOOT TREFOIL</b>  |                             |      |     |                  |                                  |            |              |                    |                    |                |
| 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   |                             |      |     |                  |                                  |            |              |                    |                    |                |
| <b>ALSIKE CLOVER</b>  |                             |      |     |                  |                                  |            |              |                    |                    |                |
| Aurora  | —                           | —    | —   | —                | —                                | —          | —            | 1961               | 2                  |                |
| Frida   | —                           | —    | —   | —                | —                                | —          | —            | 2003               | 11                 |                |
| <b>CICER MILKVETCH</b>  |                             |      |     |                  |                                  |            |              |                    |                    |                |
| 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 |                             |      |     |                  |                                  |            |              |                    |                    |                |
| <b>RED CLOVER</b>   |                             |      |     |                  |                                  |            |              |                    |                    |                |
| Altaswede   | —                           | —    | H   | —                | —                                | —          | single-cut   | 1961               | 11                 |                |
| Belle   | —                           | —    | H,P | —                | —                                | —          | double-cut   | 1998               | 11                 |                |
| Concorde  | —                           | —    | H,P | —                | —                                | —          | double-cut   | 1992               | 11                 |                |
| Juliet  | —                           | —    | H,P | —                | —                                | —          | double-cut   | 1998               | 2                  |                |
| Prima   | —                           | —    | H,P | —                | —                                | —          | double-cut   | 1996               | 11                 |                |
| Wildcat   | —                           | —    | —   | —                | —                                | —          | —            | —                  | 2                  |                |
| <b>YELLOW SWEET CLOVER</b>  |                             |      |     |                  |                                  |            |              |                    |                    |                |
| 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 |                             |      |     |                  |                                  |            |              |                    |                    |                |
| <b>SAINFOIN</b>   |                             |      |     |                  |                                  |            |              |                    |                    |                |
| 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  |                             |      |     |                  |                                  |            |              |                    |                    |                |
| <b>NATIVE LEGUME SPECIES</b>  |                             |      |     |                  |                                  |            |              |                    |                    |                |
| 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<br>% of check |      |   | Use <sup>1</sup> | Maturity | Year<br>Registered | Notes <sup>2</sup> | Seed<br>Source |
|--|-----------------------------|------|---|------------------|----------|--------------------|--------------------|----------------|
| <b>ANNUAL RYEGRASS</b>   |                             |      |   |                  |          |                    |                    |                |
| <b>Italian</b>   |                             |      |   |                  |          |                    |                    |                |
| Barmultra  | 101                         | (3)  |   |                  |          | 1981               |                    | 20             |
| Fabio  | —                           | —    |   |                  |          | 2001               |                    | 2              |
| Maris Ledger   | 100                         | (8)  |   |                  |          | 1979               |                    | 15             |
| Max  | —                           | —    |   |                  |          | 2001               |                    | 11             |
| Nabucco  | 99                          | (3)  |   | Early/medium     |          | 2008               |                    | 9              |
| Check - Maris Ledger average DM yield 7597 lb/ac (8536 kg/ha) over 8 site years. |                             |      |   |                  |          |                    |                    |                |
| <b>Westerwold</b>  |                             |      |   |                  |          |                    |                    |                |
| Aubade   | 100                         | (9)  |   | Early            |          | 1982               |                    | 2              |
| Elunaria   | 101                         | (3)  |   |                  |          | 2008               |                    | 9              |
| SW Botrus  | —                           | —    |   |                  |          | 2001               |                    | 11             |
| Sabroso  | 105                         | (3)  |   |                  |          | 2002               |                    | 20             |
| Check - Aubade average DM yield 7913 lb/ac (8891 kg/ha) over 9 site years.       |                             |      |   |                  |          |                    |                    |                |
| <b>CREEPING FOXTAIL</b>  |                             |      |   |                  |          |                    |                    |                |
| Garrison   | 100                         | (3)  | P |                  |          | n/a                |                    | 11             |
| Check - Garrison DM Average yield 2650 lb/ac (2973 kg/ha) over 3 site years      |                             |      |   |                  |          |                    |                    |                |
| <b>CREEPING RED FESCUE</b>   |                             |      |   |                  |          |                    |                    |                |
| Boreal   | 100                         | (10) | P | Early            |          | 1966               |                    | 15             |
| Check - Boreal average DM yield 4739 lb/ac (5321kg/ha) over 10 site years.       |                             |      |   |                  |          |                    |                    |                |

| Variety  | Manitoba Mean<br>% of check | Use <sup>1</sup> | Maturity | Year<br>Registered | Notes <sup>2</sup>    | Seed<br>Source           |
|--|-----------------------------|------------------|----------|--------------------|-----------------------|--------------------------|
| <b>CRESTED WHEATGRASS</b>  |                             |                  |          |                    |                       |                          |
| AC Goliath   | 103                         | (18)             | —        | 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 DM Yield 5724 lb/ac (6416 kg/ha) over 35 site years.    |                             |                  |          |                    |                       |                          |
| <b>INTERMEDIATE WHEATGRASS</b>   |                             |                  |          |                    |                       |                          |
| Chief  | 100                         | (9)              | H        | 1961               |                       | 17                       |
| Clarke   | 97                          | (5)              | H        | 1980               |                       | 10                       |
| Check - Chief average DM Yield 5329 lb/ac (5978 kg/ha) over 9 site years.    |                             |                  |          |                    |                       |                          |
| <b>MEADOW BROME</b>  |                             |                  |          |                    |                       |                          |
| Fleet  | 100                         | (40)             | P,H      | 1987               |                       | 17                       |
| Montana  | 99                          | (15)             | P,H      | 2005               |                       | 20                       |
| MBA  |                             |                  |          | 2009               |                       | 11                       |
| Paddock  | 101                         | (10)             | P,H      | 1987               | Early                 | 17                       |
| Check - Fleet average DM Yield 4807 lb/ac (5383 kg/ha) over 40 site years.   |                             |                  |          |                    |                       |                          |
| <b>MEADOW x SMOOTH BROMEGRASS</b>  |                             |                  |          |                    |                       |                          |
| AC Success   | —                           | —                | P,H      |                    | Hybrid                | 11                       |
| Bigfoot  | —                           | —                | P,H      |                    | Hybrid                | 2                        |
| Knowles®   | 103                         | (12)             | P,H      |                    | Hybrid                | 20                       |
| Check - Fleet average DM Yield 4498 lb/ac (5054 kg/ha) over 12 site years.   |                             |                  |          |                    |                       |                          |
| <b>MEADOW FESCUE</b>   |                             |                  |          |                    |                       |                          |
| Ensign   | 100                         | (25)             | P,H      | 1944               |                       | 11                       |
| Epic   | —                           |                  | P,H      | 1994               | Early-Medium          | 2                        |
| Prevail  |                             |                  |          | 2009               |                       | 9                        |
| Sigmund  | —                           |                  | P,H      | 2002               | Early-Medium          | 11                       |
| Check - Ensign average DM Yield 4157 lb/ac (4667 kg/ha) over 25 site years.  |                             |                  |          |                    |                       |                          |
| <b>MEADOW FOXTAIL</b>  |                             |                  |          |                    |                       |                          |
| Mountain   | 127                         | (5)              | P        | 1989               |                       | 15                       |
| Check - Dan average DM Yield 4696 lb/ac (5272 kg/ha) over 7 site years.      |                             |                  |          |                    |                       |                          |
| <b>ORCHARDGRASS</b>  |                             |                  |          |                    |                       |                          |
| AC Nordic  | 97                          | (6)              | P,H      | 1992               | Winter Hardiness - VG | 2                        |
| Baridana   | —                           |                  | P,H      | 1999               | Late                  | 20                       |
| Early Arctic   | 99                          | (5)              | P,H      | 2002               | Medium                | Winter Hardiness - E 9   |
| Kay  | 100                         | (53)             | P,H      | 1970               | Late                  | Winter Hardiness - G 11  |
| Killarney  |                             |                  |          | 2007               |                       | 20                       |
| Kootaney   |                             |                  |          | 2007               |                       | 20                       |
| Okay   | —                           |                  | H,P      | 1992               | Very Late             | Winter Hardiness - VG 11 |
| Check - Kay average DM Yield 4487 lb/ac (5029 kg/ha) over 59 site years.     |                             |                  |          |                    |                       |                          |
| <b>PUBESCENT WHEATGRASS</b>  |                             |                  |          |                    |                       |                          |
| Greenleaf  | —                           |                  | P,H      | 1966               |                       | 20                       |
| <b>QUACKGRASS x BLUEBUNCH WHEATGRASS</b>                                     |                             |                  |          |                    |                       |                          |
| NewHy  | —                           |                  | P,H      | n/a                |                       | 20                       |
| <b>REED CANARYGRASS3</b>   |                             |                  |          |                    |                       |                          |
| Bellevue   | —                           |                  | P, H     | 1993               | Early                 | Low alkaloid 11          |
| Marathon   | —                           |                  | P,H      | 2001               | Medium                | Low alkaloid 9,20        |
| Rival  | 100                         | (21)             | P,H      | 1985               | —                     | Low alkaloid 2           |
| Vantage  | 112                         | (21)             | P,H      | 1981               | Early                 | Low alkaloid 12          |
| Venture  | 108                         | (21)             | P,H      | 1987               | Very Early            | Low alkaloid 9           |
| Check - Rival average DM Yield 4746 lb/ac (5324 kg/ha) over 21 site years.   |                             |                  |          |                    |                       |                          |
| <b>RUSSIAN WILD RYEGRASS</b>   |                             |                  |          |                    |                       |                          |
| Swift  | 100                         | (6)              | P,H      | 1978               |                       | 17                       |
| Check - Swift average DM yield 3951lb/ac (4432 kg/ha) over 6 site years.     |                             |                  |          |                    |                       |                          |
| <b>SLENDER WHEATGRASS</b>  |                             |                  |          |                    |                       |                          |
| Revenue  | 100                         | (6)              | P,H      | 1970               |                       | 11                       |
| Check - Revenue average DM yield 3928 lb/ac (4407 kg/ha) over 6 site years.  |                             |                  |          |                    |                       |                          |
| <b>SMOOTH BROMEGRASS</b>   |                             |                  |          |                    |                       |                          |
| AC Rocket®   | 105                         | (15)             | H        | 2001               |                       | 20                       |
| Bravo  | 98                          | (7)              | H, P     | 1983               | Early                 | 11                       |
| Carlton  | 100                         | (65)             | H, P     | 1961               |                       | 15                       |
| Magna  | 99                          | (26)             | H, P     | 1968               |                       | 17                       |
| Signal   | —                           |                  | H,P      | 1983               |                       | 17,20                    |
| Check - Carlton average DM Yield 5796 lb/ac (6491 kg/ha) over 65 site years. |                             |                  |          |                    |                       |                          |

**GRASS SPECIES (continued)**

| Variety   | Manitoba Mean<br>% of check | Use <sup>1</sup> | Maturity | Year<br>Registered | Notes <sup>2</sup>   | Seed<br>Source |
|---|-----------------------------|------------------|----------|--------------------|----------------------|----------------|
| <b>TALL FESCUE</b>  |                             |                  |          |                    |                      |                |
| Barcel  | —                           | H,P              | Late     | 1988               |                      | 20             |
| Courtenay   | 100                         | (28)             | P,H      | 1987               | Winter Hardiness - G | 9              |
| Dovey   | —                           |                  | P,H      | 1998               | Winter Hardiness - G | 11             |
| Fuego   | —                           |                  | P,H      | 1990               |                      | 11             |
| Kokanee   | 96                          | (9)              | P,H      | 1995               | Winter Hardiness - G | 2              |
| Maximize  | 92                          | (7)              | P,H      | 1990               |                      | 11             |
| Check - Courtenay average DM Yield 5751 lb/ac (6441 kg/ha) over 28 site years.      |                             |                  |          |                    |                      |                |
| <b>TALL WHEATGRASS</b>  |                             |                  |          |                    |                      |                |
| Orbit   | 100                         | (6)              | P,H      | 1966               |                      | 17             |
| Check - Orbit Average DM yield 4216 lb/ac (4730 kg/ha) over 6 site years.           |                             |                  |          |                    |                      |                |
| <b>TIMOTHY</b>  |                             |                  |          |                    |                      |                |
| 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             |
| Richmond  | 103                         | (23)             | H,P      | Very Early         | 1976                 | 11             |
| Tuukka  | 99                          | (11)             | H        | Late               | 1997                 | 19             |
| <b>Limited data for the following marketed varieties.</b>                           |                             |                  |          |                    |                      |                |
| Alexander   | 85                          | (6)              | H        | Late               | 1987                 | 19             |
| Aurora  | —                           |                  |          | Late               | 1999                 | 2              |
| Bottnia II  | 104                         | (5)              | H,P      | Medium             | 1985                 | 20             |
| Colt  | 100                         | (3)              | H        | Medium             | 1995                 | 20             |
| Comtal  | —                           |                  | H,P      | Medium-late        | 1995                 | 11             |
| Derby   |                             |                  |          |                    | 2007                 | 20             |
| Express   | 112                         | (6)              | H,P      | Medium-Late        | 1999                 | 9              |
| Promesse  | 100                         | (6)              | H,P      | Medium             | 1993                 | 2              |
| Check - Climax average DM Yield 4742 lb/ac (5315 kg/ha) over 92 site years.         |                             |                  |          |                    |                      |                |
| <b>NATIVE GRASS SPECIES</b>   |                             |                  |          |                    |                      |                |
| 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    |
| <b>Limited data for the following marketed Cool Season Native Grass Species</b>     |                             |                  |          |                    |                      |                |
| 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.

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

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| <b>VISION</b>                                 |                  |
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| <b>DAWN</b>                                   |                |
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## ANNUAL RYEGRASS

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| <b>BULL</b>                                    |                  |
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| <b>EXACT</b>                                   |                  |
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| Arborg; Kernot, Douglas .....                  | 204-364-2266 C   |
| Arborg; Simundson, Bragi D.....                | 204-376-2369 C   |
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| Fisher Branch; Danelak, George & Harvey G. .... | 204-372-6236 | F C |
| Fisher Branch; Gulay, Marvin .....              | 204-372-6003 | C   |
| Fisher Branch; Podaima, Jared B. ....           |              | C   |
| Fisher Branch; Podaima, Lloyd.....              | 204-372-6161 | C   |
| Middlebro; Ewacha, Alex .....                   | 204-546-2623 | C   |
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### FLEET

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## MEADOW FESCUE

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## NEEDLE AND THREAD GRASS

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