



Agriculture and  
Agri-Food Canada

Agriculture et  
Agroalimentaire Canada



Canada-Saskatchewan  
Irrigation  
Diversification  
Centre

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# CROP VARIETIES FOR IRRIGATION



Canada



UNIVERSITY OF  
SASKATCHEWAN



Saskatchewan





## Canada-Saskatchewan Irrigation Diversification Centre

The Canada-Saskatchewan Irrigation Diversification Centre (CSIDC), Outlook, Saskatchewan, is managed and funded by the federal and provincial governments, by industry and by academia. The federal contribution is provided by Agriculture and Agri-Food Canada. The provincial partner is Saskatchewan Agriculture. Industry is represented by the Irrigation Crop Diversification Corporation (ICDC) and the Saskatchewan Irrigation Projects Association (SIPA). Academia is represented by the University of Saskatchewan.

The goal of CSIDC is to promote economic security and sustainable rural development, primarily through diversified cropping and intensive management of irrigated cropland.

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### CROPS:

|                            |    |                      |    |
|----------------------------|----|----------------------|----|
| Canola ( <i>B. napus</i> ) | 4  | Soybean              | 12 |
| Flax                       | 5  | Corn                 | 12 |
| Spring Wheat               | 6  | Annual Cereal Forage | 13 |
| Barley                     | 8  | Alfalfa              | 14 |
| Field Pea                  | 9  | Timothy              | 15 |
| Dry Bean                   | 10 | Perennial Forage     | 15 |
| Faba Bean                  | 12 | Potato               | 16 |

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# Using the Variety Guide

## Introduction

The yield comparison tables are compiled from irrigated yield tests conducted by the Canada-Saskatchewan Irrigation Diversification Centre (CSIDC). The data used in the tables are from irrigated co-operative (pre-registration) trials, regional yield trials, agronomic and observational trials, and producer funded yield trials.

The trials are conducted on small replicated plots using specialized plot equipment. A high level of management is applied to eliminate differences caused by soil variability, weed pressure, or disease. The aim is to make conditions as uniform as possible so that yield differences are due to the varieties themselves, and not some other factor. The yield of small, uniform plots is generally greater than field yields; however, the relative ranking of varieties will be the same. Emphasis is placed on testing varieties with good lodging tolerance, suitable disease resistance, and ease of harvest under irrigated production.

Crop varieties respond differently from year to year. The highest yielding variety one year may be one of the lowest yielding in another year (for example, it may mature late and be at risk of frost). Choosing the highest yielding variety is no guarantee that it will give the highest yield for this season, or your farm. Selecting a lower ranked variety may be suitable, especially if some other characteristic, such as disease resistance or early maturity, is desired.

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## Site years

### Interpreting the Tables

One site year is a test performed for one year at one site. A test conducted over 10 years at one site, or one year at 10 sites equal's 10 site years in both cases. Results from less than six site years are reported only for those cases where data is limited.

## Relative yield of varieties

All varieties are compared as a percent of a standard "check" variety. This variety is included in all tests. All other varieties are compared to it. This allows comparisons from year to year, from site to site, and from test to test.

A well run test performed over a large number of site years can detect yield differences of 2 or 3 percent. Consider four varieties that yield 108, 107, 106, and 102 percent of the check: the top three have produced comparable yields, and are higher yielding than the fourth. However, where site years are limited, varieties within 6 or 8 percent cannot be said to be different based on the available data. Further testing is needed to rank the varieties more precisely.

## Lodging ratings

Lodging ratings are reported on a four point subjective scale. The ratings are based on both numerical ratings and on general field observations throughout the growing season. Lodging varies widely from year to year and from site to site.



## Interpreting the Tables (continued)

Lodging ratings are subjective, based on the judgement of the researcher. The rankings at CSIDC have been performed using a consistent method wherever possible. This improves the accuracy of the ranking of the varieties, but does not predict results for any given year, field, or level of management.

### Agronomic information

Agronomic information includes plant height, days to flowering or maturity, seed size and quality measurements. Crop height, for example, varies from year to year. Therefore, the agronomic information is useful only as a comparison between varieties. Find a variety you are familiar with and compare others to it to determine whether it is likely to be different.

### Disease ratings

CSIDC does not routinely collect disease ratings for each variety. **Please consult Varieties of Grain Crops 2012, a publication of Saskatchewan Agriculture, for disease ratings of specific varieties.**

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## A Word of Caution

Occasionally the comparison with the check variety can be misleading. In some years the check may have an exceptionally low or high yield, skewing the rankings. For example, a new variety with limited site years of data (compared to the long term check) may rank unusually high if the check performed much worse than average during one year. Further testing will even out the variability and the ranking of the varieties will more closely reflect performance in the field.

**Management practices may have a greater impact on yield than choice of variety.** For example, seeding date experiments at CSIDC for irrigated flax have shown up to 20 percent yield reduction for late May seeding as compared to early May. This 20 percent spread is greater than the yield difference between flax varieties.

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## Plant Breeder's Rights



Plant Breeders' Rights (PBR) ensure that private sector and institutional crop breeders are afforded reasonable control of their varieties and fair compensation for their efforts. Plant breeders may apply under the Plant Breeders' Rights Act to obtain certain controls over seed increase and seed sales of their varieties.

Sale or any other transfer of ownership of seed protected under the act is prohibited without the written permission of the breeder or the breeder's agent, and without payment of a royalty to the breeder or the agent. Under PBR, bona fide farmers are allowed to keep seed of the variety for use on their own farms.

**Varieties for which Plant Breeders' Rights are in effect at the time of printing are identified by the symbol . Varieties for which Plant Breeders' Rights have been applied for are identified by the symbol .**

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***For more detailed information on specific varieties, refer to the Saskatchewan Agriculture publication Varieties of Grain Crops 2012.***

## Canola (*B. napus*)

Clubroot is a serious soil-borne disease of canola. Currently, there are no economical control measures that can remove the disease from infected canola fields. Sanitation and crop rotation are the most effective methods of prevention. Information about clubroot is available on the following website: [www.clubroot.ca](http://www.clubroot.ca).

**45H29** is the first variety registered with tolerance to clubroot. More recent clubroot tolerant varieties include **73-67 RR**, **73-77 RR**, **D3152** and **9558C** (limited data not shown).

**45S51** is the first variety registered with tolerance to white mold. More recent white mold tolerant varieties include **45S52** and **9557S** (limited data not shown).










| Variety              | Type | Site Years | Yield as % of 45H21 | Lodging Rating | Height (cm) | Days to Maturity |
|----------------------|------|------------|---------------------|----------------|-------------|------------------|
| <b>Conventional</b>  |      |            |                     |                |             |                  |
| 46A65                | OP   | 43         | 83                  | G              | 119         | 99               |
| <b>Clearfield</b>    |      |            |                     |                |             |                  |
| 5525 CL              | HYB  | 11         | 105                 | VG             | 129         | 99               |
| 45H73                | HYB  | 20         | 102                 | G              | 125         | 98               |
| 45P70                | HYB  | 16         | 97                  | G              | 124         | 99               |
| 1651 H               | HYB  | 10         | 82                  | G              | 129         | 98               |
| <b>Liberty Link</b>  |      |            |                     |                |             |                  |
| 8440                 | HYB  | 16         | 115                 | VG             | 121         | 99               |
| L130                 | HYB  | 7          | 112                 | VG             | 126         | 99               |
| 5440                 | HYB  | 19         | 113                 | VG             | 130         | 99               |
| L150                 | HYB  | 7          | 111                 | G              | 130         | 100              |
| 5030                 | HYB  | 28         | 112                 | VG             | 135         | 99               |
| 5770                 | HYB  | 12         | 111                 | VG             | 116         | 100              |
| 9590                 | HYB  | 20         | 107                 | VG             | 124         | 99               |
| <b>Roundup Ready</b> |      |            |                     |                |             |                  |
| VT 500G              | HYB  | 5          | 108                 | VG             | 129         | 100              |
| 45H29                | HYB  | 8          | 111                 | G              | 131         | 99               |
| 1956                 | COM  | 7          | 104                 | G              | 121         | 99               |
| VT Remarkable        | COM  | 5          | 102                 | G              | 124         | 100              |
| 1950                 | HYB  | 5          | 106                 | G              | 128         | 99               |
| 45H28                | HYB  | 13         | 106                 | G              | 127         | 99               |
| 72-55 RR             | HYB  | 5          | 104                 | G              | 119         | 98               |
| VR 9553 G            | HYB  | 12         | 103                 | G              | 126         | 99               |
| 72-65 RR             | HYB  | 7          | 98                  | G              | 120         | 99               |
| D3150                | HYB  | 12         | 103                 | G              | 125         | 99               |
| 46P50                | HYB  | 16         | 103                 | G              | 129         | 100              |
| 6040 RR              | HYB  | 11         | 100                 | G              | 126         | 100              |
| 71-45 RR             | HYB  | 20         | 100                 | G              | 119         | 97               |
| 45H21                | HYB  | 43         | 100                 | G              | 122         | 99               |
| V1040*               | HYB  | 4          | 98                  | G              | 121         | 100              |
| V1037*               | HYB  | 14         | 98                  | G              | 125         | 100              |
| 1855 H               | HYB  | 5          | 98                  | G              | 124         | 99               |
| 83S01 RR             | COM  | 6          | 98                  | G              | 124         | 98               |
| 45S51                | HYB  | 8          | 98                  | G              | 121         | 97               |
| 1841                 | HYB  | 19         | 97                  | VG             | 129         | 99               |
| 4424 RR              | HYB  | 5          | 97                  | G              | 126         | 100              |
| 93H01 RR             | HYB  | 7          | 96                  | G              | 125         | 99               |
| 1852 H               | HYB  | 10         | 96                  | G              | 133         | 99               |
| VT Desirable         | COM  | 14         | 90                  | G              | 118         | 98               |
| 997 RR               | OP   | 13         | 86                  | G              | 123         | 99               |

Average plot yield of 45H21 (check): 4,904 kg/ha (87 bu/ac)

\* Specialty oil

HYB = Hybrid; COM = Composite Hybrid; OP = Open Pollinated  
Lodging: G = good; VG = very good

## Flax

| Variety   | Site Years | Yield as % of CDC Bethune | Lodging Rating | Days to Maturity |
|---|------------|---------------------------|----------------|------------------|
| CDC Bethune      | 30         | 100                       | G              | 114              |
| Prairie Thunder  | 22         | 100                       | G              | 114              |
| Prairie Blue     | 30         | 95                        | G              | 118              |
| Macbeth          | 29         | 94                        | G              | 114              |
| Prairie Grande   | 19         | 94                        | G              | 113              |
| Taurus           | 14         | 93                        | G              | 114              |
| Lightning        | 15         | 92                        | G              | 116              |
| AC Watson   | 18         | 92                        | G              | 114              |
| Hanley         | 29         | 92                        | G              | 112              |
| CDC Sorrel     | 22         | 89                        | F              | 115              |
| CDC Arras   | 23         | 90                        | G              | 114              |
| Vimy  | 17         | 83                        | P              | 114              |

Average plot yield of CDC Bethune (check): 3,209 kg/ha (51 bu/ac)  
Lodging: P = poor; F = fair; G = good; VG = very good

 PBR in effect

All varieties are resistant to rust.

Frozen flax should be analyzed by a feed testing laboratory to determine that it is free of prussic acid before using it as a livestock feed.

# Spring Wheat

## **Canada Western Red Spring**

**Fieldstar VB, Goodeve VB, Shaw VB, Unity VB, CDC Utmost VB and Vesper VB** are CWRS wheat midge tolerant varieties. They contain the “SM1” tolerant gene. To manage against the build-up of midge resistance to the gene, an “*interspersed refuge*” will be used commercially. These varieties are not immune to wheat midge and can suffer midge damage when high infestation levels occur. More information on midge tolerant wheat can be found at <http://www.midgetolerantwheat.ca/farmers/faq.aspx>.

**CDC Imagine, CDC Abound and WR859CL** are tolerant to the CLEARFIELD® herbicides Adrenalin SC and Altitude FX.

**Lillian** is a solid stem variety offering some resistance to wheat stem sawfly.

Limited quantities of seed of the new varieties **Carberry, Muchmore, and Shaw VB** will be available in 2012.

## **Canada Western Amber Durum**

Limited quantities of seed of **Enterprise** will be available in 2012. All durum varieties are susceptible to two new races of loose smut.

## **Canada Western Extra Strong**

**Glencross VB** is the only CWES wheat midge tolerant variety using the “SM1” gene.

## **Canada Prairie Spring**

**Conquer VB** is the only CPS-red midge tolerant variety using the “SM1” gene.

## **Canada Western General Purpose**

Varieties in the General Purpose market class are intended for ethanol and livestock feed purposes.

## **Canada Western Soft White Spring**
































Soft white spring wheat may have potential demand as a feedstock in the production of ethanol. All soft white wheat varieties are eligible for both domestic and export markets. Soft white spring wheat varieties are susceptible to pre-harvest sprouting. The leaf spot pathogens that affect other wheat classes also affect soft white cultivars and therefore recommendations for leaf spot control are similar.

Irrigated areas in south and central Saskatchewan are susceptible to fusarium infestations. Sow less susceptible cereal types and varieties on irrigated fields with a history of fusarium head blight. Use fusarium tested seed to prevent new infestations of irrigated land. Durum and CWES are the most susceptible wheat types followed by CWSWS, CPS and CWRS. Information on tolerance levels in wheat varieties is available in the Saskatchewan Agriculture publication:


**Varieties of Grain Crops 2012.**



# Spring Wheat

| Variety   | Site Years | Yield as % of AC Barrie | Lodging Rating | Height (cm) | Days to Maturity | % Protein +/- AC Barrie | Head Awns Present |
|---|------------|-------------------------|----------------|-------------|------------------|-------------------------|-------------------|
| <b>Canada Western Red Spring</b>  |            |                         |                |             |                  |                         |                   |
| Glenn          | 9          | 113                     | G              | 90          | 108              | -0.7                    | Y                 |
| Muchmore       | 9          | 112                     | G              | 79          | 104              | -1.1                    | Y                 |
| Carberry       | 9          | 106                     | G              | 81          | 107              | -0.8                    | Y                 |
| WR859CL        | 10         | 110                     | G              | 85          | 103              | -0.3                    | Y                 |
| CDC Abound     | 17         | 112                     | G              | 85          | 108              | -0.4                    | Y                 |
| Shaw VB        | 9          | 106                     | G              | 98          | 103              | -0.5                    | N                 |
| 5603HR         | 10         | 107                     | G              | 93          | 105              | -0.5                    | Y                 |
| McKenzie  | 22         | 107                     | F              | 92          | 104              | -0.5                    | Y                 |
| Unity VB       | 20         | 108                     | G              | 92          | 103              | -0.4                    | Y                 |
| Superb         | 39         | 106                     | G              | 88          | 106              | -0.3                    | Y                 |
| Stettler       | 14         | 106                     | G              | 90          | 105              | +0.4                    | Y                 |
| Fieldstar VB   | 15         | 105                     | G              | 94          | 103              | -0.1                    | Y                 |
| Goodeve VB     | 18         | 104                     | G              | 91          | 103              | +0.2                    | N                 |
| 5602HR         | 29         | 103                     | G              | 92          | 107              | +0.3                    | Y                 |
| Kane           | 17         | 101                     | G              | 87          | 104              | -0.4                    | Y                 |
| AC Barrie      | 56         | 100                     | G              | 94          | 105              | 15.6%                   | N                 |
| Waskada        | 17         | 99                      | G              | 95          | 104              | +0.3                    | Y                 |
| CDC Imagine    | 17         | 97                      | G              | 91          | 104              | -0.1                    | N                 |
| Lillian        | 23         | 96                      | F              | 93          | 103              | +0.5                    | N                 |
| Harvest       | 15         | 94                      | G              | 89          | 103              | -0.2                    | N                 |
| <b>Canada Western Hard White</b>  |            |                         |                |             |                  |                         |                   |
| Snowstar     | 17         | 106                     | G              | 85          | 104              | -1.4                    | N                 |
| Snowbird     | 32         | 93                      | G              | 95          | 105              | -0.3                    | N                 |
| <b>Canada Western Amber Durum</b>   |            |                         |                |             |                  |                         |                   |
| Strongfield  | 43         | 109                     | F              | 89          | 108              | 0.0                     | Y                 |
| Enterprise  | 12         | 111                     | F              | 89          | 112              | -0.2                    | Y                 |
| Brigade      | 18         | 110                     | G              | 95          | 112              | -0.5                    | Y                 |
| CDC Verona   | 18         | 109                     | G              | 89          | 113              | -0.2                    | Y                 |
| Eurostar     | 18         | 106                     | F              | 92          | 112              | -0.5                    | Y                 |
| <b>Canada Prairie Spring White</b>  |            |                         |                |             |                  |                         |                   |
| AC Vista     | 49         | 119                     | F              | 85          | 106              | -2.0                    | Y                 |
| <b>Canada Prairie Spring Red</b>  |            |                         |                |             |                  |                         |                   |
| Conquer VB   | 9          | 134                     | G              | 91          | 106              | -1.8                    | Y                 |
| 5702PR       | 19         | 119                     | G              | 85          | 106              | -1.2                    | Y                 |
| AC Crystal   | 46         | 114                     | G              | 84          | 107              | -2.2                    | Y                 |
| <b>Canada Western Extra Strong</b>  |            |                         |                |             |                  |                         |                   |
| CDN Bison   | 14         | 114                     | G              | 89          | 108              | -0.6                    | Y                 |
| Burnside  | 28         | 103                     | F              | 101         | 106              | -0.6                    | N                 |
| Glencross VB  | 18         | 101                     | F              | 102         | 105              | -0.5                    | N                 |
| <b>Canada Western Soft White Spring</b>   |            |                         |                |             |                  |                         |                   |
| Sadash       | 37         | 131                     | G              | 87          | 109              | -4.1                    | Y                 |
| AC Andrew   | 56         | 124                     | G              | 84          | 109              | -3.6                    | Y                 |
| Bhishaj   | 45         | 121                     | G              | 85          | 108              | -3.8                    | Y                 |
| <b>Canada Western General Purpose</b>   |            |                         |                |             |                  |                         |                   |
| Minnedosa    | 9          | 120                     | G              | 86          | 104              | -2.3                    | Y                 |

Average plot yield of AC Barrie (check): 5,797 kg/ha (86 bu/ac)  
Lodging: F = fair; G = good

 PBR in effect  
PBR applied for

## Malt Barley

Growers are reminded that the malting industry is cautious about using new varieties.

Information on recommended malting barley varieties for 2012-2013 can be found on the Canadian Malting Barley Technical Centre (CMBTC) website at [www.cmbtc.com](http://www.cmbtc.com).

Recommended 2-row varieties include **AC Metcalfe**, **CDC Copeland**, **Newdale**, and **CDC Kendall** while recommended 6-row varieties include **Legacy**, **Tradition** and **Stellar-ND**.

For 2-row varieties, the market shares of **AC Metcalfe** and **CDC Copeland** are steady while **Newdale** gains acceptance. For the 6-row varieties, **Legacy** and **Tradition** show declining demand while demand for **Stellar-ND** is increasing.

**Celebration** and **Stellar-ND** are new 6-row varieties that have yielded similar to **CDC Kamsack** in limited testing (data not shown). **Major** and **Cerveza** are new 2-row varieties that have yielded higher than **AC Metcalfe**, while **CDC Kindersley** has yielded less than **AC Metcalfe** in limited testing (data not shown).

Growers are cautioned that most malting varieties, especially two rows, are susceptible to sprouting.

## Feed Barley

For 2-row varieties, **CDC Austenson** has yielded similar to **Champion** while **Busby** has yielded similar to **CDC Dolly** in limited testing (data not shown).

# Barley

| Variety              | Site Years | Yield as % of AC Metcalfe | Lodging Rating | Height (cm) | Days to Maturity | Awn Type |
|----------------------|------------|---------------------------|----------------|-------------|------------------|----------|
| <b>Malt 6-row</b>    |            |                           |                |             |                  |          |
| CDC Clyde            | 6          | 125                       | G              | 84          | 99               | S        |
| CDC Laurence         | 7          | 119                       | G              | 95          | 102              | S        |
| CC Mayfair           | 4          | 115                       | G              | 88          | 100              | R        |
| Legacy               | 8          | 114                       | G              | 89          | 99               | S        |
| Tradition            | 9          | 112                       | G              | 90          | 99               | S        |
| CDC Kamsack          | 4          | 114                       | G              | 85          | 103              | R        |
| <b>Malt 2-row</b>    |            |                           |                |             |                  |          |
| Newdale              | 8          | 116                       | G              | 88          | 96               | R        |
| CDC Copeland         | 8          | 114                       | G              | 98          | 97               | R        |
| Bentley              | 4          | 107                       | G              | 94          | 97               | R        |
| CDC Meredith         | 4          | 104                       | G              | 89          | 98               | R        |
| AC Metcalfe          | 11         | 100                       | F              | 91          | 97               | R        |
| CDC Kendall          | 10         | 100                       | P              | 88          | 96               | R        |
| CDC Landis           | 4          | 97                        | G              | 90          | 97               | R        |
| CDC Reserve          | 4          | 95                        | G              | 90          | 95               | R        |
| Merit 57             | 4          | 96                        | G              | 89          | 101              | R        |
| Norman               | 4          | 94                        | G              | 88          | 95               | R        |
| Harrington           | 11         | 84                        | P              | 87          | 96               | R        |
| <b>Feed 6-row</b>    |            |                           |                |             |                  |          |
| AC Rosser            | 8          | 128                       | P              | 87          | 95               | S        |
| Alston               | 5          | 123                       | G              | 85          | 102              | S        |
| Sundre               | 6          | 114                       | G              | 93          | 101              | S        |
| Chigwell             | 4          | 110                       | VG             | 90          | 99               | S        |
| <b>Feed 2-row</b>    |            |                           |                |             |                  |          |
| Xena                 | 6          | 121                       | F              | 92          | 96               | R        |
| CDC Coalition        | 5          | 120                       | VG             | 86          | 96               | R        |
| Champion             | 6          | 122                       | G              | 87          | 96               | R        |
| CDC Bold             | 7          | 117                       | F              | 85          | 96               | R        |
| CDC Trey             | 7          | 114                       | G              | 92          | 96               | R        |
| McLeod               | 7          | 117                       | G              | 81          | 95               | R        |
| CDC Helgason         | 7          | 108                       | G              | 92          | 95               | R        |
| CDC Mindon           | 6          | 109                       | VG             | 88          | 94               | R        |
| CDC Dolly            | 9          | 105                       | P              | 83          | 94               | R        |
| CDC Cowboy           | 7          | 102                       | G              | 107         | 102              | R        |
| <b>Hulless 2-row</b> |            |                           |                |             |                  |          |
| CDC McGwire          | 7          | 88                        | F              | 92          | 99               | R        |

Average plot yield of AC Metcalfe (check): 6,376 kg/ha (118 bu/ac)

Lodging: P = poor; F = Fair; G = Good

Maturity: E = early; M = medium; L = late

AC Metcalfe (check) = 100 days

R = rough; S = smooth

PBR in effect  
PBR applied for














# Field Pea

All Green, Yellow and Maple varieties listed in the table are semi-leafless types. **CDC Sonata** and **40-10** are normal leaf silage varieties. Normal leaf varieties are not generally recommended for irrigated production.

**Argus** and **Hugo** are new yellow pea varieties.

**CDC Acer**, **CDC Rocket** and **40-10** have purple flower colour and pigmented seed coats. **CDC Acer** and **CDC Rocket** have a maple patterned seed coat, **40-10** has a speckled seed coat. All other varieties have white flower colour and non-pigmented seed coats.


All pea varieties will lodge under irrigation. Those with better lodging tolerance will stand later into the season. These varieties tend to be less affected from disease, fill more fully, and generally produce a higher yield with superior seed quality.

| Variety   | Site Years | Yield as % of Cutlass | Lodging Rating | Days to Maturity | Vine Length (cm) | Seed Weight (g/1000) |
|---|------------|-----------------------|----------------|------------------|------------------|----------------------|
| <b>Green</b>  |            |                       |                |                  |                  |                      |
| Stratus        | 9          | 108                   | P              | 99               | 76               | 249                  |
| CDC Striker   | 38         | 104                   | P              | 97               | 81               | 229                  |
| Camry          | 12         | 104                   | P              | 100              | 68               | 248                  |
| CDC Tetris  | 11         | 103                   | G              | 102              | 92               | 205                  |
| Cooper         | 34         | 103                   | G              | 100              | 83               | 255                  |
| CDC Patrick   | 18         | 103                   | G              | 99               | 87               | 162                  |
| CDC Sage  | 14         | 93                    | G              | 99               | 81               | 173                  |
| SW Sergeant   | 14         | 92                    | G              | 99               | 82               | 186                  |
| Nitouche  | 20         | 92                    | F              | 98               | 83               | 231                  |
| Tamora  | 13         | 89                    | G              | 100              | 81               | 264                  |
| <b>Yellow</b>   |            |                       |                |                  |                  |                      |
| CDC Centennial  | 14         | 120                   | P              | 99               | 77               | 247                  |
| Agassiz        | 18         | 121                   | G              | 96               | 90               | 214                  |
| CDC Meadow  | 27         | 114                   | G              | 95               | 88               | 196                  |
| Reward         | 12         | 114                   | G              | 97               | 91               | 236                  |
| CDC Hornet  | 13         | 109                   | G              | 99               | 94               | 198                  |
| SW Midas       | 14         | 113                   | F              | 95               | 80               | 199                  |
| CDC Treasure  | 18         | 112                   | G              | 95               | 87               | 199                  |
| Thunderbird  | 16         | 109                   | G              | 99               | 87               | 202                  |
| Polstead     | 22         | 110                   | F              | 95               | 74               | 254                  |
| CDC Mozart  | 26         | 108                   | P              | 97               | 76               | 212                  |
| Sorento      | 14         | 113                   | F              | 98               | 80               | 225                  |
| CDC Golden  | 28         | 104                   | F              | 96               | 85               | 198                  |
| Canstar      | 15         | 101                   | F              | 95               | 85               | 219                  |
| Eclipse      | 43         | 101                   | G              | 99               | 82               | 225                  |
| Cutlass   | 43         | 100                   | G              | 97               | 81               | 206                  |
| CDC Bronco  | 23         | 99                    | G              | 99               | 82               | 189                  |
| Hugo         | 7          | 116                   | F              | 95               | 74               | 200                  |
| Argus        | 6          | 118                   | G              | 97               | 83               | 231                  |
| <b>Maple</b>  |            |                       |                |                  |                  |                      |
| CDC Rocket  | 11         | 92                    | G              | 97               | 86               | 188                  |
| CDC Acer  | 3          | 56                    | VP             | 98               | 85               | 126                  |
| <b>Forage/Silage</b>  |            |                       |                |                  |                  |                      |
| CDC Leroy   | 11         | 91                    | G              | 99               | 85               | 135                  |
| CDC Tucker  | 11         | 88                    | G              | 100              | 94               | 159                  |
| 40-10   | 7          | 53                    | VP             | 101              | 97               | 115                  |
| CDC Sonata  | 3          | 50                    | VP             | 99               | 83               | 197                  |

Average plot yield of Cutlass (check): 5,128 kg/ha (76 bu/ac)  
Lodging: VP = very poor; P = poor; F = fair; G = good

 PBR in effect

# Dry Bean

| Variety  | Plant Type | Site Years | Yield as % of Winchester | Days to Maturity | Seed Weight (g/1000) |
|--|------------|------------|--------------------------|------------------|----------------------|
| <b>Pinto</b>   |            |            |                          |                  |                      |
| Island   | II         | 12         | 122                      | 102              | 374                  |
| CDC WM-2   | II         | 7          | 110                      | 97               | 383                  |
| Othello  | III        | 14         | 103                      | 103              | 349                  |
| Winchester   | II         | 17         | 100                      | 99               | 348                  |
| CDC WM-1   | I          | 8          | 79                       | 98               | 361                  |
| Medicine Hat  | II         | 4          | 127                      | 100              | 362                  |
| <b>Black</b>   |            |            |                          |                  |                      |
| AC Black Diamond   | II         | 15         | 102                      | 102              | 264                  |
| Black Violet   | II         | 12         | 95                       | 104              | 190                  |
| CDC Jet  | II         | 6          | 71                       | 108              | 183                  |
| <b>Great Northern</b>  |            |            |                          |                  |                      |
| AC Polaris   | II         | 14         | 99                       | 102              | 323                  |
| Alert  | II         | 6          | 88                       | 108              | 343                  |
| Resolute   | II         | 14         | 87                       | 99               | 344                  |
| <b>Pink</b>  |            |            |                          |                  |                      |
| Early Rose   | II         | 5          | 88                       | 98               | 285                  |
| Viva   | III        | 13         | 101                      | 105              | 258                  |
| <b>Small Red</b>   |            |            |                          |                  |                      |
| AC Earlired  | III        | 5          | 98                       | 99               | 309                  |
| AC Redbond   | II         | 15         | 109                      | 98               | 319                  |
| NW-63  | III        | 3          | 96                       | 102              | 303                  |

## Wide Row Trials


Commercial row crop production is typically on 55 cm (22 in.) or 75 cm (30 in.) centres. The wide row bean trials are grown on 60 cm (24 in.) rows to evaluate varieties under conditions similar to conventional practice.

Yield and days to maturity are important factors when choosing a bean variety. Spring or fall frost can destroy a dry bean crop. It is important to select a variety that will mature in the normal frost-free season for your region.

**CDC WM-1** and **CDC WM-2** are slow darkening pinto dry bean varieties.

**AC Black Diamond** has large shiny seeds. **Black Violet** has smaller, buffed coloured seed.

Average plot yield of Winchester (check):  
3,319 kg/ha (2961 lb/ac)

PBR applied for  
 PBR in effect

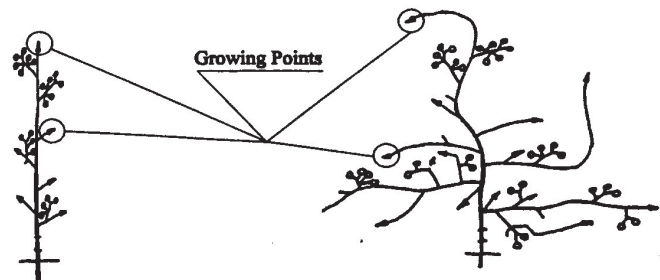
## Dry Bean Plant Type



**Type I**

### Determinate bush

The main stem and branches end in flowers. Flowering lasts 10 to 20 days with fairly uniform pod maturity.



**Type II**

### Indeterminate short vine

The main stem is erect. The stem and branches end in vegetative buds. Flowering lasts 10 to 30 days with uneven pod maturity.

**Type III**

### Indeterminate sprawling vine

The stems are semi-prostrate with well developed branches and a dense canopy. Flowering is similar to Type II plants.

Graphic courtesy Colorado Dry Bean Production and IPM Bulletin 548A. Colorado State University Co-operative Extension and Agricultural Experimental Station. 1990.

### Narrow Row Trials

The narrow row dry bean trials are sown on 20 cm (8 in.) row spacing to evaluate performance in a solid seeding management practice.

The pod clearance rating is a measure of the proportion of pods held 5 cm (2 in.) or more above ground level. This gives an indication of the suitability for harvest using a direct cut harvest system. Varieties with higher pod clearance ratings will normally have lower harvest losses.

The narrow row variety trials are a separate test from the wide row trials. These tests are not designed to compare conventional wide row and solid seeded management. **Yields and variety rankings cannot be compared between the tables.**

Seed supplies may be limited for **Carman Black** in 2012.

| Variety               | Plant Type | Site Years | Yield as % of Winchester | Pod Clearance Rating* | Days to Maturity |
|-----------------------|------------|------------|--------------------------|-----------------------|------------------|
| <b>Pinto</b>          |            |            |                          |                       |                  |
| AC Ole                | II         | 7          | 125                      | 78                    | 105              |
| Winmor                | II         | 7          | 111                      | 77                    | 104              |
| Winchester            | II         | 16         | 100                      | 79                    | 99               |
| Island                | II         | 16         | 105                      | 74                    | 103              |
| CDC WM-2              | II         | 10         | 89                       | 77                    | 98               |
| CDC Pintium           | I          | 14         | 92                       | 88                    | 95               |
| CDC WM-1              | I          | 13         | 88                       | 83                    | 97               |
| <b>Black</b>          |            |            |                          |                       |                  |
| Carmen Black          | II         | 4          | 97                       | 86                    | 105              |
| Black Violet          | II         | 7          | 99                       | 84                    | 103              |
| AC Black Diamond      | II         | 9          | 106                      | 81                    | 101              |
| CDC Blackcomb         | II         | 5          | 97                       | 84                    | 101              |
| CDC Jet               | II         | 9          | 100                      | 90                    | 106              |
| <b>Great Northern</b> |            |            |                          |                       |                  |
| Alert                 | II         | 4          | 101                      | 81                    | 106              |
| AC Polaris            | II         | 9          | 104                      | 73                    | 102              |
| Resolute              | II         | 9          | 84                       | 79                    | 100              |
| <b>Pink</b>           |            |            |                          |                       |                  |
| Viva                  | III        | 2          | 79                       | 68                    | 106              |
| <b>Small Red</b>      |            |            |                          |                       |                  |
| AC Redbond            | II         | 9          | 98                       | 80                    | 99               |
| <b>Navy</b>           |            |            |                          |                       |                  |
| Lightning             | II         | 5          | 77                       | 85                    | 117              |
| Envoy                 | I          | 7          | 97                       | 81                    | 98               |
| <b>Yellow</b>         |            |            |                          |                       |                  |
| CDC Sol               | I          | 5          | 68                       | 76                    | 104              |
| Arikara Yellow        | I          | 6          | 71                       | 75                    | 95               |




Average plot yield of Winchester (check): 3,568 kg/ha (3,183 lb/ac)

\*Pod clearance rating = % of pods that completely clear the cutter-bar at time of swathing.

PBR applied for



## Faba Bean

| Variety  | Site Years | Yield as % of CDC Fatima | Height (cm) | Days to Maturity | Seed Weight (g/1000) |
|--|------------|--------------------------|-------------|------------------|----------------------|
| <b>Coloured Flower</b>   |            |                          |             |                  |                      |
| Florent  | 3          | 125                      | 134         | 112              | 424                  |
| CDC Fatima   | 7          | 100                      | 123         | 111              | 526                  |
| CDC Blitz  | 7          | 98                       | 129         | 115              | 434                  |
| Orion  | 6          | 91                       | 119         | 117              | 354                  |
| Taboar    | 3          | 84                       | 134         | 112              | 485                  |
| <b>White Flower</b>  |            |                          |             |                  |                      |
| Imposa    | 3          | 111                      | 125         | 114              | 549                  |
| Snowbird  | 4          | 86                       | 115         | 111              | 509                  |

Average plot yield of CDC Fatima (check): 5,187 kg/ha (4,622 lb/ac)

 PBR in effect

Faba bean is late maturing, and should be sown early for best results.

**CDC Fatima** combines earlier maturity and shorter height with high yield potential. Its large seed size is preferred in some markets. White-flowered types are zero tannin. All coloured flower types have seed coats that contain tannins and are considered suitable for food markets if seed size and quality match customer demand.

## Soybean

| Variety       | Site Years | Yield as % of RR Rosco | Corn Heat Units* | Height (cm) | Lodge Rating | Seed Weight (g/1000) | Hilum Colour |
|---------------|------------|------------------------|------------------|-------------|--------------|----------------------|--------------|
| Apollo RR     | 9          | 110                    | 2375             | 75          | VG           | 139                  | BR           |
| NSC Warren RR | 6          | 110                    | 2375             | 79          | VG           | 136                  | BR           |
| RR Rosco      | 9          | 100                    | 2450             | 76          | G            | 148                  | IY           |
| LS 0036RR     | 6          | 106                    | 2425             | 71          | VG           | 129                  | BR           |
| Isis RR       | 4          | 92                     | 2400             | 79          | VG           | 136                  | BR           |
| NSC Argyle RR | 4          | 90                     | 2475             | 73          | G            | 140                  | BR           |
| LS 0028RR     | 4          | 89                     | 2400             | 62          | VG           | 114                  | BR           |

Average plot yield of RR Rosco (check): 2,925 kg/ha (2,609 lb/ac)

Hilum is the point where the seed attaches to the pod : BR = Brown; IY = Imperfect Yellow

For a complete list of commercial varieties see **Seed Manitoba 2012** ([www.seedmb.ca](http://www.seedmb.ca)).

\* Refer to the **Corn** section in this bulletin for information on corn heat units in Saskatchewan.










## Corn


The Alberta Corn Committee (ACC) irrigated grain and silage corn hybrid performance trials were conducted at CSIDC from 2003-2011. Results from the trials for each individual year as well as a multi-year summary are available on the ACC website at [www.albertacorn.com](http://www.albertacorn.com).

Select a variety with a Corn Heat Unit rating suitable to your area. A corn heat unit map of Saskatchewan is available on the Saskatchewan Agriculture website at [www.agriculture.gov.sk.ca/Corn Heat Units](http://www.agriculture.gov.sk.ca/Corn_Heat_Units).

Information on corn production can be found in **Corn Production in Manitoba**, published by the Manitoba Corn Growers Association. To order the manual, go to the Manitoba Agriculture website at [www.gov.mb.ca/agriculture/crops/cropproduction/gaa01d22.html](http://www.gov.mb.ca/agriculture/crops/cropproduction/gaa01d22.html).

# Annual Cereal Forage

| Variety  | Site Years | Dry Matter Yield<br>(% of check) | % CP | % NDF | % ADF | % TDN |
|--|------------|----------------------------------|------|-------|-------|-------|
| <b>Barley 2-row</b>  |            |                                  |      |       |       |       |
| Newdale           | 8          | 108                              | 12.3 | 48.4  | 29.7  | 63.9  |
| CDC Cowboy        | 9          | 108                              | 12.4 | 51.2  | 31.9  | 62.6  |
| CDC Copeland      | 9          | 102                              | 11.6 | 51.1  | 32.6  | 62.4  |
| Stockford         | 6          | 103                              | 13.3 | 52.2  | 32.8  | 61.8  |
| CDC Bold   | 10         | 95                               | 12.9 | 49.3  | 30.5  | 64.1  |
| <b>Barley 6-row</b>  |            |                                  |      |       |       |       |
| Binscarth  | 6          | 110                              | 12.9 | 48.0  | 29.3  | 63.9  |
| AC Ranger (check)  | 12         | 100                              | 12.5 | 49.5  | 30.7  | 63.4  |
| AC Rosser         | 12         | 102                              | 13.0 | 47.4  | 29.2  | 64.8  |
| AC Hawkeye   | 11         | 96                               | 12.7 | 51.9  | 32.6  | 62.2  |
| Vivar             | 11         | 96                               | 11.8 | 48.9  | 29.7  | 64.4  |
| Trochu          | 11         | 94                               | 12.7 | 48.1  | 29.8  | 60.5  |
| CDC Battleford  | 9          | 93                               | 12.1 | 47.3  | 30.5  | 64.4  |
| <b>Oats</b>  |            |                                  |      |       |       |       |
| Pinnacle        | 11         | 105                              | 11.0 | 52.5  | 34.6  | 60.2  |
| Calibre  | 11         | 104                              | 11.5 | 51.8  | 35.3  | 59.2  |
| AC Morgan  | 11         | 102                              | 11.1 | 51.0  | 33.7  | 60.3  |
| CDC Baler* (check)   | 11         | 100                              | 11.5 | 56.5  | 37.0  | 58.4  |
| <b>Triticale</b>   |            |                                  |      |       |       |       |
| Comet*   | 12         | 101                              | 12.1 | 58.5  | 40.0  | 55.3  |
| Banjo  | 12         | 100                              | 13.4 | 59.6  | 39.4  | 55.5  |
| Viking*  | 12         | 98                               | 12.2 | 59.5  | 40.1  | 55.2  |
| Pronghorn (check)  | 12         | 100                              | 13.9 | 57.9  | 38.3  | 55.8  |
| AC Ultima  | 12         | 94                               | 12.6 | 55.3  | 35.8  | 58.9  |


Average dry matter yield of check: AC Ranger = 15,248 kg/ha (6.80 tons/ac)  PBR in effect  
CDC Baler = 15,703 kg/ha (7.00 tons/ac)  
Pronghorn = 13,908 kg/ha (6.00 tons/ac)

Barley and oat varieties harvested at soft dough; triticale varieties harvested at late milk – early dough.

CP = Crude Protein; NDF = Neutral Detergent Fibre  
ADF = Acid Detergent Fibre; TDN = Total Digestible Nutrients

\*Varieties available for annual forage production.

# Alfalfa

| Variety          | Site Years | Yield as % of Beaver | Variety   | Site Years | Yield as % of Beaver |
|------------------|------------|----------------------|---|------------|----------------------|
| Steak            | 3          | 118                  | Atomic  | 3          | 104                  |
| Approved         | 3          | 114                  | WL 319 HQ   | 3          | 104                  |
| Forecast 1001    | 3          | 112                  | Equinox   | 3          | 103                  |
| WinterGold       | 3          | 112                  | 53Q60   | 7          | 103                  |
| AC Nordica       | 4          | 111                  | AC Grazelander Br  | 7          | 103                  |
| WL 327           | 3          | 110                  | Dakota  | 3          | 103                  |
| Starbuck         | 3          | 109                  | Tophand   | 3          | 103                  |
| 54V46            | 4          | 109                  | StockWell   | 10         | 102                  |
| WL 232 HQ        | 3          | 109                  | Proleaf   | 3          | 102                  |
| Spredor 4        | 3          | 108                  | Barrier   | 11         | 102                  |
| Gibraltar        | 3          | 107                  | Gala  | 4          | 102                  |
| Perfect          | 3          | 107                  | Magnum 3801 Wet   | 3          | 101                  |
| Multi5301        | 3          | 107                  | Quattro HR  | 3          | 101                  |
| Survivor         | 3          | 106                  | <b>Beaver</b>   | <b>31</b>  | <b>100</b>           |
| AC Longview      | 7          | 106                  | Rangelander   | 19         | 98                   |
| Pickseed 2065MF  | 7          | 106                  | Rhino   | 3          | 98                   |
| 54V54            | 7          | 106                  | Magnum III-WET  | 3          | 97                   |
| Pickseed 8925MF  | 4          | 105                  | Matrix  | 3          | 96                   |
| 421Abacus        | 3          | 105                  | HayGrazer   | 3          | 96                   |
| AmeriStand 201+Z | 7          | 105                  | Convoy  | 3          | 95                   |
| AgriMaster       | 3          | 105                  | 53Q30   | 3          | 94                   |
| AC Blue J        | 19         | 104                  | 54Q25   | 3          | 93                   |
| Geneva           | 7          | 104                  | Dalton  | 3          | 93                   |
| HybriForce-400   | 3          | 104                  | Runner  | 6          | 93                   |
| 134              | 3          | 104                  | Rambler   | 31         | 92                   |

Average dry matter yield of Beaver (check): 11,507 kg/ha (5.13 tons/ac)

 PBR in effect

The varieties were evaluated in the Western Forage Testing (WFT) System trials from 1996 to 2009 and in the ICDC/Saskatchewan Forage Council trials established under irrigation in 2002 at CSIDC and in 2003 at Osler, Saskatchewan. WFT variety trials are established each year and forage yields are measured for each of the following three years. All data is for a two cut system except for 2001 to 2003 in which three cuts were taken.

Varieties with rapid re-growth after cutting are best suited to intensive management. For more information on alfalfa varieties, including disease resistance, consult the latest **Forage Crop Production Guide** available from Saskatchewan Agriculture ([www.agriculture.gov.sk.ca/Forage-Crop-Production-Guide](http://www.agriculture.gov.sk.ca/Forage-Crop-Production-Guide)).

The contribution and co-operation of Dr. B. Coulman of the Department of Plant Sciences, University of Saskatchewan, toward the alfalfa, timothy, and forage grass variety testing is gratefully acknowledged.

# Timothy

| Variety      | Site Years | Yield as % of Climax |
|--------------|------------|----------------------|
| AC Alliance  | 5          | 116                  |
| Dolina       | 3          | 114                  |
| Express      | 3          | 113                  |
| Grinstad     | 11         | 112                  |
| Joliette     | 5          | 112                  |
| Jonatan      | 5          | 111                  |
| Richmond     | 8          | 109                  |
| Timfor       | 6          | 108                  |
| Turku        | 3          | 104                  |
| Winnetou     | 3          | 103                  |
| TimPro       | 3          | 102                  |
| Tenho        | 3          | 102                  |
| Alexander    | 6          | 101                  |
| Drummond     | 8          | 100                  |
| Nike         | 6          | 100                  |
| Climax       | 11         | 100                  |
| Argus        | 6          | 97                   |
| Toro         | 6          | 97                   |
| Glacier      | 3          | 96                   |
| Carola Champ | 6          | 93                   |
| Topi         | 3          | 91                   |
| Bottnia II   | 6          | 89                   |
| Tuukka       | 3          | 87                   |

Average dry matter yield of Climax (check):  
11,040 kg/ha (4.92 tons/ac)

Irrigated timothy trials were conducted at the CSIDC and at the Semiarid Prairie Agricultural Research Centre (SPARC) in Swift Current from 1995 to 1997. Western Forage Testing (WFT) System trials were conducted at CSIDC from 1996 to 2007. AAFC Timothy Performance Trials were conducted at CSIDC in 2004 and 2005. Results from all trials are included in the table.

The trials were harvested in early July and in late August of each year. Export markets prefer high leaf content and long seed heads. **Drummond** had the longest seed heads and the second highest leaf content in the trials conducted from 1995 to 1997. **Richmond** had a lower fiber content and higher nutritive value making it better suited to the domestic dairy hay market than other varieties tested in the 1995 to 1997 trials.

## Perennial Forage

| Variety                   | Site Years | Yield as % of check |
|---------------------------|------------|---------------------|
| <b>Birdsfoot Trefoil</b>  |            |                     |
| AC Langille               | 3          | 117                 |
| Leo (check)               | 3          | 100                 |
| <b>Cicer Milkvetch</b>    |            |                     |
| Windsor                   | 2          | 101                 |
| Oxley (check)             | 2          | 100                 |
| AC Oxley II               | 2          | 90                  |
| <b>Crested Wheatgrass</b> |            |                     |
| AC Goliath                | 2          | 109                 |
| Kirk (check)              | 3          | 100                 |
| <b>Smooth Bromegrass</b>  |            |                     |
| Carlton (check)           | 3          | 100                 |
| AC Rocket                 | 3          | 100                 |
| Radisson                  | 3          | 99                  |
| <b>Meadow Foxtail</b>     |            |                     |
| Dan (check)               | 3          | 100                 |
| Mountain                  | 3          | 87                  |

 PBR in effect

| Variety                  | Site Years | Yield as % of check |
|--------------------------|------------|---------------------|
| <b>Orchard Grass</b>     |            |                     |
| Tundra                   | 3          | 121                 |
| Early Arctic             | 3          | 118                 |
| Kootenay                 | 3          | 106                 |
| Killarney                | 3          | 105                 |
| Kay                      | 3          | 100                 |
| Kayak                    | 3          | 91                  |
| <b>Meadow Bromegrass</b> |            |                     |
| Montana                  | 3          | 112                 |
| MBA                      | 3          | 104                 |
| Fleet (check)            | 3          | 100                 |
| <b>Tall Fescue</b>       |            |                     |
| Courtney (check)         | 3          | 100                 |
| Kokanee                  | 3          | 88                  |

Average dry matter yield of check:

|                                       |  |
|---------------------------------------|--|
| Leo = 10,743 kg/ha (4.79 tons/ac)     | Dan = 10,155 kg/ha (4.53 tons/ac)      |
| Oxley = 9,496 kg/ha (4.24 tons/ac)    | Kay = 11,398 kg/ha (5.03 tons/ac)      |
| Kirk = 14,493 kg/ha (6.46 tons/ac)    | Fleet = 13,433 kg/ha (6.09 tons/ac)    |
| Carlton = 16,004 kg/ha (7.14 tons/ac) | Courtney = 13,958 kg/ha (6.23 tons/ac) |

# Potato

| Variety                  | Consumption Grade<br>( >45 mm diameter tubers ) |       | Seed Grade<br>( <90 mm diameter tubers ) |       |
|--------------------------|---|-------|--|-------|
|                          | Site<br>Years                                   | Yield | Site<br>Years                            | Yield |
| <b>Table potato</b>      | % of Norland                                    |       | % of Norland                             |       |
| Atlantic                 | 31  | 106   | 28                                       | 96    |
| Russet Norkotah          | 40  | 100   | 38                                       | 98    |
| Norland                  | 43  | 100   | 40                                       | 100   |
| Shepody                  | 43  | 99    | 40                                       | 92    |
| <b>French Fry potato</b> | % of Russet Burbank                             |       | % of Russet Burbank                      |       |
| Shepody                  | 50  | 124   | 44                                       | 101   |
| Ranger Russet            | 34  | 108   | 28                                       | 97    |
| Russet Burbank           | 50  | 100   | 44                                       | 100   |
| <b>Chipping potato</b>   | % of Atlantic                                   |       | % of Atlantic                            |       |
| AC Ptarmigan             | 3   | 108   | 2  | 111   |
| Niska                    | 3   | 102   | 2  | 112   |
| Atlantic                 | 8   | 100   | 4  | 100   |
| Snowden                  | 8   | 93    | 4  | 94    |
| Norchip                  | 2   | 93    | 1  | 97    |

Average consumption grade plot yield of check:  
 Norland = 32.8 tonnes/ha (292 cwt/ac)  
 Russet Burbank = 27.7 tonnes/ha (247 cwt/ac)  
 Atlantic = 38.3 tonnes/ha (341 cwt/ac)

Average seed grade plot yield of check:  
 Norland = 46.1 tonnes/ha (411 cwt/ac)  
 Russet Burbank = 43.1 tonnes/ha (385 cwt/ac)  
 Atlantic = 44.0 tonnes/ha (392 cwt/ac)

The potato variety comparisons shown are based on varietal, agronomic, and fertility trials conducted at CSIDC from 1995 to 2011. The potatoes were grown using standard commercial practice under full irrigation.

Varieties which are commonly used in more than one market appear twice in the table. Shepody, for example, is used primarily as a French fry potato but is also grown for table use.





