

British Columbia

Alberta

Western Canadian Grass Seed Testing Program



2004 Report

Saskatchewan

Manitoba

INTRODUCTION

This report provides a summary of the grass seed trials conducted under the Western Grass Testing Program during 2004. The main objective of these trials is to determine the seed production potential and adaptability of grass varieties for contract seed production for the domestic and export market. All attempts have been made to ensure the success of these trials, however, at times environmental conditions may adversely affect the yield results regardless of the management practices followed.

Severe winter injury and winter kill was observed on most of the plots at the Arborg, Manitoba location.

We thank the following companies for their sponsorship of our 2004 research endeavors and look forward to cooperating and working with them during the 2005 production year.

Alberta Research Council
Agriculture & Agri-Food Canada
Barenbrug USA, Inc.
Brett-Young Seeds Ltd.
Boreal Plant Breeding
Deutsche Saatveredelung
DLF-International
John Zuelzer & Son Canada Ltd.
Moore Seed Processors Inc.
Newfield Seeds Company Inc.
Peace Pedigreed Seed
Peace River Seed Co-op Ltd.
The Scotts Company
Tomorrow's Seed
Turf-Seed, Inc.

Data Collection Procedures

| | |
|--------------|---|
| Seed Yield | reported on a clean seed basis in kg ha ⁻¹ (kg ha ⁻¹ x 0.9 = lbs ac ⁻¹) |
| Harvest Date | date the variety was swathed. |
| Plant Height | measured in centimeters and is the height of the plant at harvest from ground level to the tip of the seed head (1 cm x 0.3937 = inches). |

Trial Procedures

For information on specific trial procedures, contact the respective location representative listed on the following page.

* Please Note *

Some varieties in this report have been tested for shorter periods of time than others. It is advised not to use average yield figures to make variety comparisons for single-year data. Only after a **minimum** of three years of testing should data be considered as 90% reliable. In some cases, data may not be reported due to extreme variations that cannot be accounted for in the statistical design.

Statistical information for this report was generated through an Analysis of Variance (ANOVA). Least significant difference (LSD) values are presented at the bottom of each table when statistically significant differences are present using the 5% level of significance. This means there is a 95% probability that you can reject the hypothesis that the treatments are the same or there is only a 5% probability that the treatment differences occurred by chance. If the difference in treatment values is less than the LSD value, the treatments are not considered to be significantly different.

Disclaimer

Reference to commercial products or trade names is made with the understanding that no discrimination is intended and no endorsement is implied.

WGST Co-operators and Technical Support

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Protocol for Western Grass Seed Testing (WGST) Program

Revised January 2004

1. Research Sponsorship

The research sponsorship of \$120 CAN/entry/year/location is requested on an annual basis, as years of production will vary with the species being tested, and applies to the establishment year as well. Alberta Agriculture, Food and Rural Development will administer funds for the Western Grass Seed Testing Program.

2. Eligibility of Entries

Released and experimental lines of all tame and native grass species will be considered if they are of interest to commercial seed companies. We reserve the right not to initiate tests:

- if seed arrives late
- if there is lack of space in any year at a particular location
- if there are too few entries in any year for a particular location

3. Seed Requirements and Deadline for Seed Entry

The applicant will provide for **EACH TEST LOCATION**:

- 50 gm bentgrass, Kentucky bluegrass or timothy
- 100 gm of orchardgrass, creeping red, chewings, hard, meadow, sheep or tall fescue, annual or perennial ryegrass
- 200 gm of meadow or smooth bromegrass, wheatgrasses

Submitted seed shall be supplied by **March 1** of the establishment year and will include the percent germination and relative maturity (early, medium or late) of each variety. Please indicate whether the submission is a forage or turf type. For fescues please indicate whether the submission is a creeping, chewings, hard, meadow, sheep or tall fescue.

4. Use of Seed

Seed submitted will only be used to establish the agreed upon trials. The seed will **NOT** be used for increase, selection or distribution.

5. Test Locations

1. Fort St. John, British Columbia
2. Beaverlodge, Alberta
3. Brooks, Alberta (irrigated)
4. Bow Island, Alberta (irrigated)
5. Vegreville, Alberta
6. Melfort, Saskatchewan
7. Outlook, Saskatchewan (irrigated)
8. Portage La Prairie, Manitoba
9. Arborg, Manitoba

The applicant selects the locations where their material is to be tested.



6. Test Description

Due to plot equipment differences and land availability at the various test sites, certain conditions must be met in establishing trials. Each test will be a randomized complete block consisting of a minimum of 4 replicates. No test will have more than 25 entries of a particular species. Plots will be seeded at appropriate seeding rates for the species being tested and normal cultural practices for the area will be carried out. A minimum of 3 sq. m will be harvested.

Species, check varieties and years of testing (establishment year and seed production years):

- | | |
|-------------------------------------|------------------------------------|
| Bentgrasses - 18th Green - 4 yrs. | Tall fescue - Courtenay - 4 yrs |
| Kentucky bluegrass - Abbey - 4 yrs | Orchardgrass - Kay - 3 yrs |
| Meadow bromegrass - Fleet - 3 yrs | Annual ryegrass - Aubade - 1 yr |
| Smooth bromegrass - Carlton - 4 yrs | Perennial ryegrass - Norlea - 2 yr |
| Meadow fescue - Mimer - 4 yrs | Timothy - Climax - 4 yrs |
| Red fescue - Boreal - 3 yrs | |

Information to be recorded will include clean seed yield, % stand in fall and spring, plant height, harvest date and if available, climatic data for each test site.

7. Publication of Results

Data will undergo appropriate statistical analyses and each applicant will be provided with an annual report. Information on varieties will be made available in various annual reports and to seed producers upon request.

- 8.** All reasonable care will be taken to ensure a successful test, however, a guarantee cannot be made that a particular test will be successful. If required a test will be reseeded.

9. For further information, contact:

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Kentucky Bluegrass 2001 Seed Production Trial
Beaverlodge, Alberta 2004 Results

| Company | Variety | Seed Yield (kg/ha ⁻¹) | Harvest Date | Plant Height (cm) |
|-------------------|-------------|--------------------------------------|--------------|----------------------|
| DLF-International | Blue Knight | 97 | 10-Aug-04 | 30 |
| | Broadway | 104 | 10-Aug-04 | 36 |
| | Abbey | 121 | 10-Aug-04 | 35 |
| | Mean | 107 | . | 33 |
| | CV (%) | 23.9 | | 22.3 |
| | LSD (0.05) | ns | | ns |

Kentucky Bluegrass 2001 Seed Production Trial
Outlook, Saskatchewan 2004 Results

| Company | Variety | Seed Yield (kg/ha ⁻¹) | Harvest Date | Plant Height (cm) |
|-----------|------------|--------------------------------------|--------------|----------------------|
| Turf-Seed | Bluestar | 447 | 13-Aug-04 | . |
| | Brilliant | 629 | 13-Aug-04 | . |
| | Moonlight | 506 | 13-Aug-04 | . |
| | North Star | 582 | 13-Aug-04 | . |
| Check | Abbey | 538 | 13-Aug-04 | . |
| | Mean | 540 | . | . |
| | CV (%) | 45.0 | | |
| | LSD (0.05) | 378 | | |

Kentucky Bluegrass 2002 Seed Production Trial
Bow Island, Alberta 2004 Results

| Company | Variety | Seed Yield (kg/ha ⁻¹) | Harvest Date | Plant Height (cm) |
|-------------------|---------------|--------------------------------------|--------------|----------------------|
| Brett-Young | Orfeo | 687 | 20-Jul-04 | 77 |
| DLF-International | Blue Knight | 428 | 22-Jul-04 | 72 |
| | Broadway | 651 | 20-Jul-04 | 71 |
| DSV | 214/94 | 496 | 26-Jul-04 | 74 |
| | POPR 97561 | 431 | 22-Jul-04 | 66 |
| | POPR 97562 | 523 | 26-Jul-04 | 70 |
| | POPR 97563 | 384 | 22-Jul-04 | 75 |
| | POPR 97564 | 779 | 29-Jul-04 | 84 |
| | POPR 97567 | 332 | 29-Jul-04 | 65 |
| | POPR 97570 | 503 | 26-Jul-04 | 63 |
| | POPR 97571 | 457 | 22-Jul-04 | 71 |
| | POPR 97573 | 595 | 29-Jul-04 | 78 |
| | POPR 97576 | 500 | 20-Jul-04 | 75 |
| Turf-Seed | Blacksburg II | 439 | 26-Jul-04 | 75 |
| | Midnight Star | 538 | 20-Jul-04 | 76 |
| Check | Abbey | 989 | 20-Jul-04 | 74 |
| | Mean | 546 | . | 73 |
| | CV (%) | 16.3 | | 9.7 |
| | LSD (0.05) | 126 | | 10 |

Kentucky Bluegrass 2002 Seed Production Trial
Brooks, Alberta 2004 Results

| Company | Variety | Seed Yield (kg/ha ⁻¹) | Harvest Date | Plant Height (cm) |
|-----------|---------------|--------------------------------------|--------------|----------------------|
| DVS | POPR 97570 | 457 | 23-Jul-04 | 76 |
| | POPR 97571 | 412 | 23-Jul-04 | 79 |
| | POPR 97573 | 689 | 23-Jul-04 | 85 |
| | POPR 97576 | 481 | 23-Jul-04 | 83 |
| Turf-Seed | Blacksburg II | 520 | 23-Jul-04 | 86 |
| | Midnight Star | 437 | 23-Jul-04 | 84 |
| Check | Abbey | 519 | 23-Jul-04 | 82 |
| | Mean | 502 | . | 82 |
| | CV (%) | 19.9 | | 7.1 |
| | LSD (0.05) | 149 | | ns |

Kentucky Bluegrass 2003 Seed Production Trial
Bow Island, Alberta 2004 Results

| Company | Variety | Seed Yield (kg/ha ⁻¹) | Harvest Date | Plant Height (cm) |
|-------------------|-------------|---|--------------|----------------------|
| Brett-Young | A96-425 | . | . | . |
| | A96-43 | . | . | . |
| | A98-146 | . | . | . |
| | A98-475 | . | . | . |
| | A99-2573 | . | . | . |
| DLF-International | A98-139 | Poor establishment Reseeded 2004 | | |
| | DLF 769037 | | | |
| | HB95 Hybrid | . | . | . |
| | HB96 Hybrid | . | . | . |
| | Plantini | . | . | . |
| | SCR-320 | . | . | . |
| | Slezanka | . | . | . |
| DSV | N 522 | . | . | . |
| | POPF 00577 | . | . | . |
| | POPF 00578 | . | . | . |
| | POPF 00580 | . | . | . |
| | POPR 99575 | . | . | . |
| Check | Abbey | . | . | . |

Kentucky Bluegrass 2003 Seed Production Trial
Brooks, Alberta 2004 Results

| Company | Variety | Seed Yield (kg/ha ⁻¹) | Harvest Date | Plant Height (cm) |
|---------|------------|--------------------------------------|--------------|----------------------|
| DSV | 214/94 | 583 | 29-Jul-04 | 76 |
| | N 522 | 410 | 29-Jul-04 | 82 |
| | POPF 00577 | 420 | 23-Jul-04 | 81 |
| | POPF 00578 | 290 | 29-Jul-04 | 79 |
| | POPF 00580 | 412 | 23-Jul-04 | 78 |
| | POPR 97561 | . | 29-Jul-04 | . |
| | POPR 97562 | 408 | 29-Jul-04 | 74 |
| | POPR 97563 | 447 | 23-Jul-04 | 84 |
| | POPR 97564 | 530 | 29-Jul-04 | 86 |
| | POPR 97567 | 350 | 23-Jul-04 | 85 |
| | POPR 99575 | 450 | 29-Jul-04 | 83 |
| | Abbey | 662 | 23-Jul-04 | 81 |
| | Mean | 458 | . | 81 |
| | CV (%) | 16.7 | . | 9.4 |
| | LSD (0.05) | 125 | . | ns |

Kentucky Bluegrass 2003 Seed Production Trial
Portage la Prairie, Manitoba 2004 Results

| Company | Variety | Seed Yield (kg/ha ⁻¹) | Harvest Date | Plant Height (cm) |
|-------------|--------------------|--------------------------------------|--|----------------------|
| Brett-Young | BDX-003 CBT-003 | | Poor establishment Trial discontinued | . |
| Check | Abbey | . | . | . |

Smooth Bromegrass 2003 Seed Production Trial
Beaverlodge, Alberta 2004 Results

| Company | Variety | Seed Yield (kg/ha ⁻¹) | Harvest Date | Plant Height (cm) |
|----------------|---------|--------------------------------------|--------------|----------------------|
| Newfield Seeds | Peak | 557 | 9-Aug-04 | 136 |
| Check | Carlton | 520 | 9-Aug-04 | 131 |
| | Mean | 539 | . | 134 |
| | CV (%) | 6.9 | | 6.3 |

Smooth Bromegrass 2003 Seed Production Trial
Melfort, Saskatchewan 2004 Results

| Company | Variety | Seed Yield (kg/ha ⁻¹) | Harvest Date | Plant Height (cm) |
|----------------|---------|--------------------------------------|--------------|----------------------|
| Newfield Seeds | Peak | 563 | 3-Aug-04 | 158 |
| Check | Carlton | 845 | 3-Aug-04 | 167 |
| | Mean | 704 | . | 162 |
| | CV (%) | 19.9 | | 2.7 |

Smooth Bromegrass 2003 Seed Production Trial
Outlook, Saskatchewan 2004 Results

| Company | Variety | Seed Yield (kg/ha ⁻¹) | Harvest Date | Plant Height (cm) |
|----------------|---------|--------------------------------------|--------------|----------------------|
| Newfield Seeds | Peak | 1156 | 13-Aug-04 | . |
| Check | Carlton | 1164 | 13-Aug-04 | . |
| | Mean | 1159 | . | . |
| | CV (%) | 19.0 | | |

Smooth Bromegrass 2003 Seed Production Trial
Arborg, Manitoba 2004 Results

| Company | Variety | Seed Yield (kg/ha ⁻¹) | Harvest Date | Plant Height (cm) |
|----------------|---------|--------------------------------------|--------------|----------------------|
| Newfield Seeds | Peak | 683 | 11-Aug-04 | . |
| Check | Carlton | 993 | 11-Aug-04 | . |
| | Mean | 838 | . | . |
| | CV (%) | 8.7 | | |

Smooth Bromegrass 2003 Seed Production Trial
Portage la Prairie, Manitoba 2004 Results

| Company | Variety | Seed Yield (kg/ha ⁻¹) | Harvest Date | Plant Height (cm) |
|---------------------------|---------|--------------------------------------|---------------------------|----------------------|
| Newfield Seeds | Peak | | | |
| Check | Carlton | | | |
| Poor establishment | | | Trial discontinued | |

Fine Fescue 2002 Seed Production Trial
Bow Island, Alberta 2004 Results

| Species | Company | Variety | Seed Yield (kg/ha ⁻¹) | Harvest Date | Plant Height (cm) |
|--------------|-----------|-------------|--------------------------------------|--------------|----------------------|
| Creeping red | Turf-Seed | Aberdeen | 2057 | 14-Jul-04 | 82 |
| | | Inverness | 1731 | 16-Jul-04 | 85 |
| | Hard | Aurora Gold | 1150 | 8-Jul-04 | 79 |
| | | Aurora II | 1272 | 8-Jul-04 | 74 |
| Creeping red | Check | Boreal | 2258 | 16-Jul-04 | 93 |
| | | | Mean | 1694 | 83 |
| | | | CV (%) | 8.5 | 7.9 |
| | | | LSD (0.05) | 222 | 10 |

Fine Fescue 2002 Seed Production Trial
Brooks, Alberta 2004 Results

| Species | Company | Variety | Seed Yield (kg/ha ⁻¹) | Harvest Date | Plant Height (cm) |
|--------------|-----------|-------------|--------------------------------------|--------------|----------------------|
| Creeping red | Turf-Seed | Aberdeen | 1210 | 16-Jul-04 | 93 |
| | | Inverness | 779 | 19-Jul-04 | 77 |
| | Hard | Aurora Gold | 398 | 13-Jul-04 | 79 |
| | | Aurora II | 592 | 13-Jul-04 | 75 |
| Creeping red | Check | Boreal | 1234 | 16-Jul-04 | 91 |
| | | | Mean | 843 | 83 |
| | | | CV (%) | 17.6 | 9.8 |
| | | | LSD (0.05) | 228 | 12 |

Fine Fescue 2002 Seed Production Trial
Beaverlodge, Alberta 2004 Results

| Species | Company | Variety | Seed Yield (kg/ha ⁻¹) | Harvest Date | Plant Height (cm) |
|---------------------------|------------------|----------------|--------------------------------------|--------------|----------------------|
| Blue hard Creeping red | Turf-Seed | Little Bighorn | 777 | 12-Jul-04 | . |
| | AAFC Beaverlodge | BRFB1 | 899 | 22-Jul-04 | 73 |
| | Brett-Young | FRP 101 | 605 | 22-Jul-04 | 63 |
| | | Swing | 305 | 22-Jul-04 | 61 |
| Sheep Creeping red | Newfield Seeds | Rocky | 389 | 12-Jul-04 | . |
| | Check | Boreal | 683 | 22-Jul-04 | 70 |
| | | | Mean | 610 | 67 |
| | | | CV (%) | 44.9 | 8.7 |
| | | | LSD (0.05) | 413 | 9 |

Fine Fescue 2003 Seed Production Trial
Bow Island, Alberta 2004 Results

| Species | Company | Variety | Seed Yield (kg/ha ⁻¹) | Harvest Date | Plant Height (cm) |
|--------------|-----------|---------------|--------------------------------------|--------------|----------------------|
| Creeping red | Turf-Seed | Florentine GT | 1444 | 16-Jul-04 | 75 |
| | Check | Boreal | 2268 | 14-Jul-04 | 84 |
| | | | | Mean | 1856 |
| | | | | CV (%) | 8 |
| | | | | | |
| | | | | | |

Fine Fescue 2003 Seed Production Trial
Brooks, Alberta 2004 Results

| Company | Variety | Seed Yield (kg/ha ⁻¹) | Harvest Date | Plant Height (cm) |
|--------------|-----------|--------------------------------------|--------------|----------------------|
| Creeping red | Turf-Seed | 1392 | 19-Jul-04 | 88 |
| | Check | 2231 | 16-Jul-04 | 89 |
| | | | | Mean |
| | | | | CV (%) |
| | | | | |
| | | | | |

Fine Fescue 2003 Seed Production Trial
Beaverlodge, Alberta 2004 Results

| Species | Company | Variety | Seed Yield (kg/ha ⁻¹) | Harvest Date | Plant Height (cm) |
|--------------|----------------------|----------------|--------------------------------------|--------------|----------------------|
| Blue hard | Turf-Seed | Little Bighorn | 799 | 12-Jul-04 | . |
| Creeping red | Peace Pedigreed Seed | LEL 2002 | 1430 | 22-Jul-04 | 71 |
| Sheep | Newfield Seeds | Rocky | 533 | 12-Jul-04 | . |
| Creeping red | Check | Boreal | 1208 | 22-Jul-04 | 70 |
| | | Mean | 993 | . | 70 |
| | | CV (%) | 19.9 | | 9.2 |
| | | LSD (0.05) | 317 | | |

Fine Fescue 2003 Seed Production Trial
Fort St. John, British Columbia 2004 Results

| Species | Company | Variety | Seed Yield (kg/ha ⁻¹) | Harvest Date | Plant Height (cm) |
|--------------|----------------------|----------------|--------------------------------------|--------------|----------------------|
| Blue hard | Turf-Seed | Little Bighorn | 350 | 15-Jul-04 | . |
| Creeping red | AAFC Beaverlodge | BRFB1 | 604 | 18-Jul-04 | . |
| | Brett-Young | FRP 101 | 402 | 18-Jul-04 | . |
| | | Swing | 262 | 18-Jul-04 | . |
| | Peace Pedigreed Seed | LEL 2002 | 667 | 18-Jul-04 | . |
| | Turf-Seed | Aberdeen | 622 | 18-Jul-04 | . |
| | | Forentine GT | 250 | 18-Jul-04 | . |
| | | Inverness | 465 | 18-Jul-04 | . |
| | Check | Boreal | 573 | 18-Jul-04 | . |
| | | Mean | 466 | . | . |
| | | CV (%) | 23.4 | | |
| | | LSD (0.05) | 159 | | |

Fine Fescue 2003 Seed Production Trial
Melfort, Saskatchewan 2004 Results

| Species | Company | Variety | Seed Yield (kg/ha ⁻¹) | Harvest Date | Plant Height (cm) |
|--------------|----------------------|----------|--------------------------------------|--------------|----------------------|
| Creeping red | Peace Pedigreed Seed | LEL 2002 | | | Poor growth |
| Sheep | Newfield Seeds | Rocky | | | Trial discontinued |
| Creeping red | Check | Boreal | . | . | . |

Fine Fescue 2003 Seed Production Trial
Outlook, Saskatchewan 2004 Results

| Species | Company | Variety | Seed Yield (kg/ha ⁻¹) | Harvest Date | Plant Height (cm) |
|--------------|----------------|---------|--------------------------------------|--------------|----------------------|
| Sheep | Newfield Seeds | Rocky | 361 | 13-Aug-04 | . |
| Creeping red | Check | Boreal | 990 | 13-Aug-04 | . |
| | | Mean | 675 | . | . |
| | | CV (%) | 26 | | |

Meadow Fescue 2001 Seed Production Trial
Beaverlodge, Alberta 2004 Results

| Company | Variety | Seed Yield (kg/ha ⁻¹) | Harvest Date | Plant Height (cm) |
|-------------------|---------|--------------------------------------|--------------|----------------------|
| DLF-International | FB 6 | 57 | 26-Jul-04 | 50 |
| Check | Mimer | 140 | 26-Jul-04 | 56 |
| | Mean | 99 | . | 53 |
| | CV (%) | 20.6 | | 10 |

Meadow Fescue 2001 Seed Production Trial
Fort St. John, British Columbia 2004 Results

| Company | Variety | Seed Yield (kg/ha ⁻¹) | Harvest Date | Plant Height (cm) |
|-------------------|---------|--------------------------------------|--------------|----------------------|
| DLF-International | FB 6 | 121 | 23-Jul-04 | . |
| Check | Mimer | 106 | 23-Jul-04 | . |
| | Mean | 113 | . | . |
| | CV (%) | 44.0 | | |

Tall Fescue 2001 Seed Production Trial
Bow Island, Alberta 2004 Results

| Company | Variety | Seed Yield (kg/ha ⁻¹) | Harvest Date | Plant Height (cm) |
|---------|------------|--------------------------------------|--------------|----------------------|
| Scotts | Coyote | 1736 | 20-Jul-04 | 91 |
| | WAF | 1759 | 20-Jul-04 | 91 |
| Check | Courtenay | 1689 | 16-Jul-04 | 134 |
| | Mean | 1728 | . | 105 |
| | CV (%) | 12.5 | | 9.7 |
| | LSD (0.05) | ns | | 18 |

Tall Fescue 2001 Seed Production Trial
Outlook, Saskatchewan 2004 Results

| Company | Variety | Seed Yield (kg/ha ⁻¹) | Harvest Date | Plant Height (cm) |
|-----------|------------------|--------------------------------------|--------------|----------------------|
| Turf-Seed | Endeavor | 500 | 13-Aug-04 | . |
| | Maximize | 401 | 13-Aug-04 | . |
| | Olympic Gold | 639 | 13-Aug-04 | . |
| | Spring Green (f) | 393 | 13-Aug-04 | . |
| | Tar Heel | 420 | 13-Aug-04 | . |
| | Wolfpack | 549 | 13-Aug-04 | . |
| | Courtenay | 578 | 13-Aug-04 | . |
| | Mean | 495 | | |
| | CV (%) | 23.0 | | |
| | LSD (0.05) | 168 | | |

f - Festulolium

Tall Fescue 2002 Seed Production Trial
Bow Island, Alberta 2004 Results

| Company | Variety | Seed Yield (kg/ha ⁻¹) | Harvest Date | Plant Height (cm) |
|-----------|-------------|--------------------------------------|--------------|----------------------|
| Turf-Seed | Endure | 1816 | 20-Jul-04 | 100 |
| | Silverstar | 2550 | 20-Jul-04 | 102 |
| | Tomahawk GT | 2658 | 20-Jul-04 | 106 |
| | Courtenay | 1977 | 16-Jul-04 | 132 |
| | | Mean | 2250 | 110 |
| | | CV (%) | 11.2 | 6.1 |
| | | LSD (0.05) | 402 | 11 |

Tall Fescue 2002 Seed Production Trial
Brooks, Alberta 2004 Results

| Company | Variety | Seed Yield (kg/ha ⁻¹) | Harvest Date | Plant Height (cm) |
|-----------|-------------|--------------------------------------|--------------|----------------------|
| Turf-Seed | Endure | 1396 | 23-Jul-04 | 117 |
| | Silverstar | 1520 | 23-Jul-04 | 101 |
| | Tomahawk GT | 1721 | 23-Jul-04 | 104 |
| | Courtenay | 1431 | 19-Jul-04 | 140 |
| | | Mean | 1517 | 116 |
| | | CV (%) | 16.2 | 9 |
| | | LSD (0.05) | ns | 17 |

Tall Fescue 2003 Seed Production Trial
Bow Island, Alberta 2004 Results

| Company | Variety | Seed Yield (kg/ha ⁻¹) | Harvest Date | Plant Height (cm) |
|-------------------|--------------|--------------------------------------|--------------|----------------------|
| DLF-International | Hykor (f) | 1309 | 14-Jul-04 | 115 |
| | Matador GT | 1613 | 20-Jul-04 | 88 |
| | Silverado II | 1825 | 20-Jul-04 | 89 |
| | Tar Heel II | 999 | 14-Jul-04 | 78 |
| Check | Courtenay | 1283 | 14-Jul-04 | 127 |
| | Mean | 1419 | . | 99 |
| | CV (%) | 20.3 | | 7.1 |
| | LSD (0.05) | ns | | 13 |

f - Festulolium

Tall Fescue 2003 Seed Production Trial
Brooks, Alberta 2004 Results

| Company | Variety | Seed Yield (kg/ha ⁻¹) | Harvest Date | Plant Height (cm) |
|-----------|--------------|--------------------------------------|--------------|----------------------|
| Turf-Seed | Matador GT | 1926 | 23-Jul-04 | 105 |
| | Silverado II | 1420 | 23-Jul-04 | 106 |
| | Tar Heel II | 1056 | 16-Jul-04 | 83 |
| Check | Courtenay | 1551 | 23-Jul-04 | 121 |
| | Mean | 1493 | . | 105 |
| | CV (%) | 11.9 | | 8.2 |
| | LSD (0.05) | 345 | | 17 |

Tall Fescue 2003 Seed Production Trial
Fort St. John, British Columbia 2004 Results

| Company | Variety | Seed Yield (kg/ha ⁻¹) | Harvest Date | Plant Height (cm) |
|-----------|--------------|--------------------------------------|--------------|----------------------|
| Turf-Seed | Matador GT | 645 | 26-Jul-04 | . |
| | Silverado II | 275 | 26-Jul-04 | . |
| | Tar Heel II | 368 | 23-Jul-04 | . |
| Check | Courtenay | 473 | 23-Jul-04 | . |
| | | Mean | 440 | . |
| | | CV (%) | 36.1 | . |
| | | LSD (0.05) | 254 | . |

Tall Fescue 2003 Seed Production Trial
Arborg, Manitoba 2004 Results

| Company | Variety | Seed Yield (kg/ha ⁻¹) | Harvest Date | Plant Height (cm) |
|--------------------------------------|-----------|--------------------------------------|--------------|----------------------|
| DLF-International Tommorow's Seed | Hykor (f) | 113 | 11-Aug-04 | . |
| | TS-T3 | 597 | 11-Aug-04 | . |
| | Courtenay | 422 | 11-Aug-04 | . |
| | | Mean | 430 | . |
| | | CV (%) | 25.5 | . |
| | | LSD (0.05) | 249 | . |

f - Festulolium (did not over winter well)

Native Grasses 2003 Seed Production Trial
Bow Island, Alberta 2004 Results

| Company | Variety | Seed Yield (kg/ha ⁻¹) | Harvest Date | Plant Height (cm) |
|------------------|------------------|--------------------------------------|--------------|----------------------|
| Research Council | ARC-AWG-1-1 (aw) | 1693 | 3-Aug-04 | 135 |
| | ARC-CWR-2-1 (cw) | 1768 | 10-Aug-04 | 150 |
| | ARC-IRG-1-1 (ir) | . | . | . |
| | Hillcrest (aw) | 2232 | 26-Jul-04 | 123 |
| | | Mean | 1898 | 136 |
| | | CV (%) | 6.9 | 4.9 |
| | | LSD (0.05) | 229 | 12 |

aw - Awned Wheatgrass

cw - Canadian Wildrye

ir - Indian Ricegrass (slow establishment, little seed produced)

Native Grasses 2003 Seed Production Trial
Beaverlodge, Alberta 2004 Results

| Company | Variety | Seed Yield (kg/ha ⁻¹) | Harvest Date | Plant Height (cm) |
|------------------|------------------|--------------------------------------|--------------|----------------------|
| Research Council | ARC-AWG-1-1 (aw) | 472 | 9-Aug-04 | 119 |
| | ARC-CWR-2-1 (cw) | 710 | 19-Aug-04 | 147 |
| | ARC-IRG-1-1 (ir) | 126 | 19-Aug-04 | 58 |
| | Hillcrest (aw) | 472 | 3-Aug-04 | 95 |
| | | Mean | 445 | 108 |
| | | CV (%) | 17.3 | 5.1 |
| | | LSD (0.05) | 123 | 9 |

aw - Awned Wheatgrass

cw - Canadian Wildrye

ir - Indian Ricegrass (slow establishment)

**Orchard Grass 2002 Seed Production Trial
Bow Island, Alberta 2004 Results**

| Company | Variety | Seed Yield (kg/ha ⁻¹) | Harvest Date | Plant Height (cm) |
|-----------------|-----------|--------------------------------------|--------------|----------------------|
| Tomorrow's Seed | TS02 MLYK | 1003 | 20-Jul-04 | 128 |
| Check | Kay | 1152 | 16-Jul-04 | 132 |
| | Mean | 1077 | . | 130 |
| | CV (%) | 12.1 | | 7.2 |

**Orchard Grass 2002 Seed Production Trial
Brooks, Alberta 2004 Results**

| Company | Variety | Seed Yield (kg/ha ⁻¹) | Harvest Date | Plant Height (cm) |
|-----------------|------------|--------------------------------------|--------------|----------------------|
| Tomorrow's Seed | TS02 A4 | 1089 | 19-Jul-04 | 153 |
| | TS02 MYK | 1032 | 19-Jul-04 | 156 |
| | TS02 PX2 | 1158 | 19-Jul-04 | 157 |
| Check | Kay | 1098 | 19-Jul-04 | 154 |
| | Mean | 1094 | . | 155 |
| | CV (%) | 13.3 | | 3.4 |
| | LSD (0.05) | ns | | ns |

**Orchard Grass 2003 Seed Production Trial
Arborg, Manitoba 2004 Results**

| Company | Variety | Seed Yield (kg/ha ⁻¹) | Harvest Date | Plant Height (cm) |
|-----------------|------------|--------------------------------------|--------------|----------------------|
| Tomorrow's Seed | TS-A2000 | 688 | 4-Aug-04 | . |
| | TS-A4 | 516 | 4-Aug-04 | . |
| | TS-AP | 398 | 4-Aug-04 | . |
| | TS-HATT | 565 | 4-Aug-04 | . |
| | TS-MYK | 278 | 4-Aug-04 | . |
| | TS-PX2 | 159 | 4-Aug-04 | . |
| | TS-VLA | 587 | 4-Aug-04 | . |
| Check | Kay | 211 | 4-Aug-04 | . |
| | Mean | 425 | . | . |
| | CV (%) | 16.7 | | |
| | LSD (0.05) | 104 | | |

Perennial Ryegrass 2003 Seed Production Trial
Bow Island, Alberta 2004 Results

| Company | Variety | Seed Yield (kg/ha ⁻¹) | Harvest Date | Plant Height (cm) |
|-----------|-------------|--------------------------------------|--------------|----------------------|
| Turf-Seed | Quicksilver | 1102 | 20-Jul-04 | 59 |
| Check | Norlea | 1177 | 20-Jul-04 | 90 |
| | Mean | 1140 | . | 74 |
| | CV (%) | 3.6 | | 14.1 |

Perennial Ryegrass 2003 Seed Production Trial
Brooks, Alberta 2004 Results

| Company | Variety | Seed Yield (kg/ha ⁻¹) | Harvest Date | Plant Height (cm) |
|---------------------------|-------------|--------------------------------------|--------------|----------------------|
| Turf-Seed | Quicksilver | | | |
| Check | Norlea | | | |
| Grasshopper damage | | | | |
| Reseeded 2004 | | | | |

Perennial Ryegrass 2003 Seed Production Trial
Arborg, Manitoba 2004 Results

| Company | Variety | Seed Yield (kg/ha ⁻¹) | Harvest Date | Plant Height (cm) |
|-------------------|-------------|--------------------------------------|--------------|----------------------|
| DLF-International | Capri | . | . | . |
| | Cinderella | . | . | . |
| | DP 17-9501 | . | . | . |
| | DP 17-9502 | . | . | . |
| | Easy Living | | | Winter Killed |
| | Elfin | | | Reseeded 2004 |
| | Esquire | . | . | . |
| | Esteem | . | . | . |
| | PDQ | . | . | . |
| | Sauvignon | . | . | . |
| Check | Norlea | . | . | . |

Timothy 2001 Seed Production Trial
Bow Island, Alberta 2004 Results

| Company | Variety | Seed Yield (kg/ha ⁻¹) | Harvest Date | Plant Height (cm) |
|-------------------|---------|--------------------------------------|--------------|----------------------|
| DLF-International | Bilbo | 700 | 3-Aug-04 | 106 |
| | Dolina | 653 | 3-Aug-04 | 98 |
| | Tundra | 518 | 3-Aug-04 | 100 |
| | Climax | 609 | 3-Aug-04 | 112 |
| Mean | | 620 | . | 104 |
| CV (%) | | 16.3 | . | 7.4 |
| LSD (0.05) | | ns | . | ns |

Timothy 2001 Seed Production Trial
Beaverlodge, Alberta 2004 Results

| Company | Variety | Seed Yield (kg/ha ⁻¹) | Harvest Date | Plant Height (cm) |
|-------------------|------------|--------------------------------------|--------------|----------------------|
| DLF-International | Bilbo | 102 | 10-Aug-04 | 63 |
| | Dolina | 70 | 10-Aug-04 | 61 |
| | DVP 001657 | 62 | 10-Aug-04 | 59 |
| | Tundra | 54 | 10-Aug-04 | 55 |
| | Climax | 51 | 10-Aug-04 | 61 |
| Mean | | 68 | . | 60 |
| CV (%) | | 43.7 | . | 6.7 |
| LSD (0.05) | | ns | . | ns |

Timothy 2001 Seed Production Trial
Fort St. John, British Columbia 2004 Results

| Company | Variety | Seed Yield (kg/ha ⁻¹) | Harvest Date | Plant Height (cm) |
|-------------------|------------|--------------------------------------|--------------|----------------------|
| DLF-International | Bilbo | 301 | 11-Aug-04 | . |
| | Dolina | 211 | 11-Aug-04 | . |
| | DVP 001657 | 179 | 11-Aug-04 | . |
| | Tundra | 224 | 11-Aug-04 | . |
| | Climax | 151 | 11-Aug-04 | . |
| Mean | | 213 | . | . |
| CV (%) | | 54.8 | . | . |
| LSD (0.05) | | ns | . | . |

Timothy 2002 Seed Production Trial
Beaverlodge, Alberta 2004 Results

| Company | Variety | Seed Yield (kg/ha ⁻¹) | Harvest Date | Plant Height (cm) |
|------------------|--------------------|--------------------------------------|--------------|----------------------|
| Moore Seed Check | Grassland Charlton | 283 | 10-Aug-04 | 99 |
| | Climax | 404 | 10-Aug-04 | 113 |
| | Mean | 344 | . | 106 |
| | CV (%) | 19.2 | | 3.4 |

Timothy 2003 Seed Production Trial
Beaverlodge, Alberta 2004 Results

| Company | Variety | Seed Yield (kg/ha ⁻¹) | Harvest Date | Plant Height (cm) |
|------------------|----------|--------------------------------------|--------------|----------------------|
| Moore Seed Check | SBT 9501 | 427 | 9-Aug-04 | 103 |
| | Climax | 406 | 9-Aug-04 | 102 |
| | Mean | 416 | . | 102 |
| | CV (%) | 26.2 | | 5.6 |

Timothy 2003 Seed Production Trial
Fort St. John, British Columbia 2004 Results

| Company | Variety | Seed Yield (kg/ha ⁻¹) | Harvest Date | Plant Height (cm) |
|-------------------|--------------------|--------------------------------------|--------------|----------------------|
| DLF-International | DP 70-9707 | 404 | 10-Aug-04 | . |
| | DP 70-9802 | 613 | 10-Aug-04 | . |
| | Winnetou | 692 | 10-Aug-04 | . |
| Moore Seed | Grassland Charlton | 445 | 10-Aug-04 | . |
| | SBT 9501 | 448 | 10-Aug-04 | . |
| Check | Climax | 501 | 10-Aug-04 | . |
| | | Mean | 517 | . |
| | | CV (%) | 12.9 | . |
| | | LSD (0.05) | 101 | . |

Timothy 2003 Seed Production Trial
Arborg, Manitoba 2004 Results

| Company | Variety | Seed Yield (kg/ha ⁻¹) | Harvest Date | Plant Height (cm) |
|-------------------|------------|--------------------------------------|--------------|----------------------|
| DLF-International | DP 70-9707 | 156 | 19-Aug-04 | . |
| | DP 70-9802 | 388 | 19-Aug-04 | . |
| | Winnetou | 421 | 19-Aug-04 | . |
| Check | Climax | 286 | 19-Aug-04 | . |
| | | Mean | 323 | . |
| | | CV (%) | 20.6 | . |
| | | LSD (0.05) | 113 | . |

Summary of seed yield (kg ha^{-1}) for Kentucky Bluegrass in Western Canada 1997-2004

| Company | Variety | Seed yield / production year | | | | | | | | | | | |
|---------------------|-------------|------------------------------|------|-----|--------|-----|-----|-------------|-----|-----|-----|-----|-----|
| | | Bow Island | | | Brooks | | | Beaverlodge | | | | | |
| | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | | | |
| Check | Abbey | 1251 | 1241 | 833 | 1126 | 850 | 734 | 187 | 349 | 221 | 501 | 349 | 538 |
| Brett-Young | Orfeo | 1032 | 687 | | | | | | | | | | |
| DLF - International | Blue Knight | 869 | 428 | | | | | 39 | 200 | 97 | | | |
| | Broadway | 878 | 651 | | | | | 65 | 223 | 104 | | | |
| | VB 17921 | 468 | 636 | 323 | 759 | 507 | 369 | | | | 287 | 479 | |
| | VB 19111 | 880 | 1044 | 298 | 989 | 604 | 600 | | | | 253 | 437 | |
| | 214/94 | 1118 | 496 | | 583 | | | | | | | | |
| DSV | N 522 | | | | 410 | | | | | | | | |
| | N-545 | 740 | 483 | 456 | 1550 | 322 | 256 | | | | | | |
| | N-551 | 603 | 509 | 431 | 1025 | 431 | 151 | | | | | | |
| | N-552 | 637 | 724 | 401 | 972 | 550 | 177 | | | | | | |
| | N-554 | 372 | 626 | 326 | 1186 | 356 | 166 | | | | | | |
| | POPF 00577 | | | | 420 | | | | | | | | |
| | POPF 00578 | | | | 290 | | | | | | | | |
| | POPF 00580 | | | | 412 | | | | | | | | |
| | POPR 97561 | 808 | 431 | | | | | | | | | | |
| | POPR 97562 | 622 | 523 | | 408 | | | | | | | | |
| | POPR 97563 | 670 | 384 | | 447 | | | | | | | | |
| | POPR 97564 | 1139 | 779 | | 530 | | | | | | | | |
| | POPR 97567 | 521 | 332 | | 350 | | | | | | | | |
| | POPR 97570 | 837 | 503 | | 766 | 457 | | | | | | | |
| | POPR 97571 | 836 | 457 | | 696 | 412 | | | | | | | |
| | POPR 97573 | 907 | 595 | | 992 | 689 | | | | | | | |
| | POPR 97576 | 739 | 500 | | 665 | 481 | | | | | | | |
| | POPR 99575 | | | | 450 | | | | | | | | |
| | PPR 11-85 | 588 | 677 | 516 | 1117 | 453 | 189 | | | | | | |

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Summary of seed yield (kg ha^{-1}) for Kentucky Bluegrass in Western Canada 1997-2004 (con't)

| Company | Variety | Seed yield / production year | | | | | | | | | | | |
|-------------------|---------------|------------------------------|------|-----|--------|-----|-----|-------------|-----|-----|-----|-----|-----|
| | | Bow Island | | | Brooks | | | Beaverlodge | | | | | |
| | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | | | |
| Lesco | LSKB CT 98-1 | 1028 | 1585 | 334 | | | | 335 | 474 | 256 | | | |
| | LSKB CT 1 | 1011 | 285 | 165 | | | | | | | | | |
| | LSKB CT 2 | 1309 | 514 | 252 | | | | | | | | | |
| Montana Turfgrass | MTT 483 | 831 | 795 | 749 | 586 | 890 | 492 | | | | | | |
| | MTT 683 | 799 | 865 | 732 | 655 | 843 | 444 | | | | | | |
| Newfield Seeds | Dormie | 1350 | 873 | 280 | 907 | 428 | 279 | | | | | | |
| | Opal | 986 | 863 | 183 | 693 | 299 | 304 | | | | | | |
| Pickseed Canada | Banff | 1264 | 326 | | | | 838 | 439 | | | | | |
| | Pick 113-3 | | | | | | | 769 | 407 | | | | |
| | Pick H94-301 | 1146 | 503 | | | | 838 | 594 | | | | | |
| Scotts | HB-127 | 881 | 754 | 462 | | | | | | | | | |
| Turf-Seed | Blacksburg II | 814 | 439 | | | | 644 | 520 | | | | | |
| | Bluestar | 1393 | 684 | 372 | 1470 | 944 | 718 | 253 | 160 | 172 | 345 | 447 | |
| | Brilliant | 534 | 440 | 434 | | | | | | | 235 | 629 | |
| | Denim | 1554 | 635 | 520 | 945 | 775 | 672 | 124 | 166 | 296 | | | |
| | Lato | 291 | 268 | 289 | | | | | | | | | |
| | Midnight Star | 803 | 538 | | | | 588 | 437 | | | | | |
| | Moonlight | 672 | 411 | 344 | | | | | | | 182 | 506 | |
| | North Star | 539 | 383 | 339 | | | | | | | 123 | 582 | |
| | Serene | 504 | 705 | 151 | 375 | 162 | 205 | 150 | 97 | 72 | | | |
| Voyager | | 959 | 452 | 306 | 1054 | 554 | 481 | 11 | 191 | 66 | | | |
| Mean | | 894 | 655 | 440 | 803 | 575 | 444 | 154 | 256 | 173 | 303 | 422 | 540 |

Summary of seed yield (kg ha^{-1}) for Smooth Bromegrass in Western Canada 1997-2004

| Company | Variety | Seed yield / production year | | | | | |
|-----------------|---------|------------------------------|-----|-----|-------------|-----|-----|
| | | Brooks | | | Beaverlodge | | |
| | | 1 | 2 | 3 | 1 | 2 | 3 |
| Newfield Seeds | Peak | | | | 557 | | |
| Pickseed Canada | Bravo | 969 | 288 | 375 | 378 | 222 | 109 |
| Check | Carlton | 1384 | 415 | 607 | 599 | 462 | 292 |
| Mean | | 1177 | 352 | 491 | 533 | 342 | 200 |
| | | | | | | | 583 |
| | | | | | | | 781 |

| Company | Variety | Seed yield / production year | | | | | |
|-----------------|---------|------------------------------|---------|--------|--------------------|-----|-----|
| | | Melfort | Outlook | Arborg | Portage la Prairie | | |
| | | | | | 1 | 2 | 3 |
| Newfield Seeds | Peak | 563 | 1156 | 683 | | | |
| Pickseed Canada | Bravo | | | | 112 | 436 | 496 |
| Check | Carlton | 845 | 1164 | 993 | 214 | 585 | 463 |
| Mean | | 704 | 1160 | 838 | 163 | 496 | 474 |

Summary of seed yield (kg ha^{-1}) for Fine Fescues in Western Canada 1997-2004

| Species | Company | Variety | Seed yield / production year | | | | | | | | | | | |
|--------------|----------------------|----------------|------------------------------|------|--------|------|-------------|-----|---------------|------|---------|----|---------|--------|
| | | | Bow Island | | Brooks | | Beaverlodge | | Fort St. John | | Melfort | | Outlook | Arborg |
| | | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 |
| Creeping red | Check | Boreal | 2361 | 1865 | 1837 | 1121 | 1006 | 549 | 1042 | 429 | 357 | 35 | 990 | |
| Blue hard | Turf-Seed | Bighorn | 1304 | 1077 | 2110 | 1465 | 634 | 777 | 350 | | | | | |
| | | Little Bighorn | | | | | 506 | 323 | 1400 | 1021 | | | | |
| Chewings | DLF-International | Casanova | | | | | | | | | | | | |
| | Pickseed Canada | Victory II | 2685 | 718 | 1218 | 466 | | | | | | | | |
| | Turf-Seed | Tiffany | 1107 | 1509 | 929 | 1274 | | | | | | | | |
| Creeping red | | Eugene | | | | | 949 | 532 | | | | | | |
| | AAFC Beaverlodge | BRFB1 | | | | | 1250 | 899 | 604 | | | | | |
| | Brett-Young | BY511751 | | | | | 297 | 134 | 1221 | 23 | | | | |
| | | FRP 101 | | | | | 748 | 605 | 402 | | | | | |
| | | Swing | | | | | 305 | 305 | 262 | | | | | |
| | DLF-International | RU 1511 | | | | | 711 | 494 | 1607 | 564 | | | | |
| | | RU 1645 | | | | | 737 | 613 | 813 | 246 | | | | |
| | Newfield Seeds | SW Kristina | 1222 | 1602 | | | 384 | 269 | 277 | 627 | 146 | 17 | | |
| | Parsons Seeds | Kauni | | | | | 956 | 687 | 1760 | 1274 | | | | |
| | Peace Pedigreed Seed | LEL 2002 | | | | | 1430 | | 667 | | | | | |
| | Pickseed Canada | Jasper | | | | | 714 | 316 | 1687 | 993 | | | | |
| | Turf-Seed | Aberdeen | 1999 | 2057 | 1408 | 1210 | | | 622 | | | | | |
| | | Florentine | 1549 | 590 | 828 | 614 | 269 | 152 | | 250 | | | | |
| | | Florentine GT | 1444 | | 1392 | | | | | 465 | | | | |
| | | Inverness | 2068 | 1731 | 1276 | 779 | | | | | | | | |
| | | Miramar | 1281 | 748 | 1380 | 526 | 372 | 290 | | | | | | |
| | | Shademaster II | 1358 | 1134 | 1322 | 865 | | | | | | | | |
| | Proven Seed | UGG 2001 | | | | | 566 | 255 | 759 | 654 | | | | |
| | | UGG 2002 | | | | | 425 | 301 | 407 | 729 | | | | |

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Summary of seed yield (kg ha^{-1}) for Fine Fescues in Western Canada 1997-2004 (con't)

| Species | Company | Variety | Seed yield / production year | | | | | | | | | | |
|---------|--------------------|--------------|------------------------------|------|--------|-----|-------------|-----|---------------|------|---------|-----|---------|
| | | | Bow Island | | Brooks | | Beaverlodge | | Fort St. John | | Melfort | | Outlook |
| 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 |
| Fine | Lesco | LSFF CT 98-1 | 1719 | 1777 | | | 702 | 448 | 1036 | 756 | | | |
| | | LSFF CT 98-2 | 1593 | 2137 | | | 417 | 589 | 715 | 1290 | | | |
| | | LSFF CT 98-3 | 1510 | 1588 | | | 91 | 607 | 250 | 1117 | | | |
| Hard | Turf-Seed | Aurora Gold | 1280 | 1402 | 1340 | 707 | 112 | 692 | | | | | |
| | | Aurora II | 1349 | 1272 | 1393 | 592 | | | | | | | |
| | | Discovery | 1161 | 986 | 1575 | 994 | | | | | | | |
| Sheep | Newfield Seeds | Rocky | | | | | 533 | 389 | | | | 361 | |
| Slender | Peace Valley Seeds | Barcrown | 404 | 492 | 0 | 587 | | | | | | | |
| | Turf-Seed | Seabreeze | 1083 | 1191 | 726 | 199 | 171 | 207 | | | | | |
| Mean | | | 1637 | 1355 | 1391 | 862 | 655 | 466 | 906 | 693 | 252 | 26 | 676 |

Summary of seed yield (kg ha^{-1}) for Mountain Fescue in Western Canada 1997-2004

| Company | Variety | Seed yield / production year | | | | | |
|------------------|---------|------------------------------|-----|-----|---------------|-----|-----|
| | | Beaverlodge | | | Fort St. John | | |
| | | 1 | 2 | 3 | 1 | 2 | 3 |
| Research Council | ARCFS-1 | 398 | 297 | 163 | 1142 | 764 | 187 |
| | ARCFS-2 | 467 | 371 | 157 | 1050 | 930 | 363 |
| | ARCFS-V | 372 | 379 | 92 | 1183 | 618 | 160 |
| Mean | | 412 | 349 | 137 | 1125 | 771 | 237 |

Summary of seed yield (kg ha^{-1}) for Meadow Fescue in Western Canada 1997-2004

| Company | Variety | Seed yield / production year | | | | | | Arborg |
|---------------|-------------------|------------------------------|-----|-----|---------------|-----|-----|--------|
| | | Beaverlodge | | | Fort St. John | | | |
| | | 1 | 2 | 3 | 1 | 2 | 3 | 1 |
| Check | Mimer | 644 | 416 | 196 | 1406 | 463 | 132 | 336 |
| | DLF-International | 465 | 249 | 57 | 1180 | 261 | 121 | 240 |
| | Premil | 232 | 419 | 102 | 989 | 270 | 231 | |
| Parsons Seeds | Antti | 958 | 200 | 219 | | | | 247 |
| Mean | | 575 | 321 | 144 | 1192 | 331 | 161 | 186 |

Summary of seed yield (kg ha^{-1}) for Festulolium in Western Canada 1997-2004

| Company | Variety | Seed yield / production year | | | | | |
|---------------------|--------------|------------------------------|------|---------|-----|--------|---|
| | | Bow Island | | Outlook | | Arborg | |
| | | 1 | 2 | 1 | 3 | 1 | 2 |
| DLF-International | Hykor | 1309 | | | | 113 | |
| Turf-Seed | Spring Green | 580 | 634 | 176 | 393 | | |
| Check (Tall Fescue) | Courtenay | 1287 | 1295 | 257 | 578 | 405 | |

Summary of seed yield (kg ha^{-1}) for Tall Fescues in Western Canada 1997-2004

| Company | Variety | Type | Seed yield / production year | | | | | | | | | | | | | | | | | | | | |
|-------------------|--------------|--------|------------------------------|------|------|--------|------|------|-------------|-----|-----|---------------|---|---------|------|-----|--------|-----|--------------------|-----|-----|-----|----|
| | | | Bow Island | | | Brooks | | | Beaverlodge | | | Fort St. John | | Outlook | | | Arborg | | Portage la Prairie | | | | |
| | | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 1 | 2 | 3 | 1 | 2 | 1 | 2 | 3 | | |
| Check | Courtenay | Forage | 1512 | 1717 | 1418 | 1678 | 1359 | 886 | 615 | 329 | 388 | 473 | | 868 | 661 | 373 | 405 | 335 | 460 | 450 | 36 | | |
| Advanta | Fuego | Forage | 1057 | 1530 | 2140 | 1129 | 1280 | 1057 | | | | | | | | | | | | | | | |
| | Regiment | Turf | 1327 | 1977 | 2287 | 1653 | 1802 | 1312 | | | | | | | | | | | | | | | |
| | Seine | Forage | 1076 | 2405 | 2538 | 1379 | 1617 | 1408 | | | | | | | | | | | | | | | |
| | Tulsa | Turf | 1302 | 1819 | 2152 | 1784 | 1963 | 1362 | | | | | | | | | | | | | | | |
| DLF-International | Cajun 2 | Forage | | | | | | | | | | | | | 1558 | 719 | 146 | | | | | | |
| | Martin 2 | Forage | 1136 | 2131 | 2167 | 1215 | 1869 | 1487 | | | | | | | 1808 | 820 | 277 | | | | | | |
| Lesco | LSTF CT 98-1 | | 2216 | 2036 | 1053 | | | | 917 | 174 | 81 | | | | | | | | | | | | |
| Northstar Seed | F.T.K. 98 | Forage | | | | | | | | | | | | | | | | | 639 | 404 | 649 | 437 | 17 |
| Parsons Seeds | Kokanee | Forage | | | | | | | 575 | 196 | 171 | | | | | | | | 428 | 159 | | | |
| | Retu | Forage | | | | | | | 791 | 190 | 188 | | | | | | | | 527 | 274 | | | |
| Scotts | ATF - 188 | | 1564 | 1992 | 2209 | 2069 | 2068 | 1360 | | | | | | | | | | | | | | | |
| | Cody | | | | | | | | 332 | 492 | 464 | | | | | | | | | | | | |
| | Coyote | | 1821 | 2066 | 1736 | | | | | | | | | | | | | | | | | | |
| | RT-93 | | | | | | | | 208 | 678 | 161 | | | | | | | | | | | | |
| | WAF | | 1847 | 2023 | 1759 | | | | | | | | | | | | | | | | | | |
| | Wyatt | | | | | | | | 494 | 365 | 492 | | | | | | | | | | | | |
| Tomorrow's Seed | TS-T3 | | | | | | | | | | | | | | | | | | 597 | | | | |
| Turf-Seed | Endeavor | Turf | 1477 | 1557 | 1773 | | | | | | | | | | | | | 672 | 500 | | | | |
| | Endure | Turf | 1845 | 1816 | | 1406 | 1396 | | | | | | | | | | | | | | | | |
| | Matador | Turf | 1875 | 2004 | 2325 | 2415 | 2043 | 1613 | | | | | | | | | | | | | | | |
| | Matador GT | Turf | 1770 | | | | | | | | | | | | | | 645 | | | | | | |
| | Maximize | Forage | 828 | 1044 | 1003 | | | | | | | | | | | | | 408 | 401 | | | | |
| | Olympic Gold | Turf | 2665 | 2791 | 1213 | 3205 | 1655 | 966 | 933 | 175 | 76 | | | | | | 644 | 639 | | | | | |
| | PST 5LMD | Turf | 1366 | 2412 | 800 | 2357 | 1425 | 716 | 669 | 170 | 28 | | | | | | | | | | | | |
| | Pure Gold | Turf | 2651 | 2990 | 1196 | 2926 | 1476 | 818 | 1247 | 198 | 110 | | | | | | | | | | | | |
| | Safari | Turf | 2852 | 2367 | 1103 | 2688 | 1498 | 550 | 1227 | 236 | 115 | | | | | | | | | | | | |
| | Silverado II | Turf | 1623 | | | | | | | | | | | | | 275 | | | | | | | |
| | Silverstar | Turf | 2702 | 2550 | | 1470 | 1520 | | | | | | | | | | | | | | | | |
| | Tar Heel | Turf | 1333 | 1386 | 2052 | 1976 | 1625 | 1287 | | | | | | | | | 474 | 420 | | | | | |
| | Tar Heel II | Turf | 1028 | | | | | | | | | | | | | 368 | | | | | | | |
| | Tomahawk GT | Turf | 2715 | | | 1602 | | | | | | | | | | | 551 | 549 | | | | | |
| | Wolfpack | Turf | 1268 | 1465 | 1593 | | | | | | | | | | | | | | | | | | |
| Mean | | | 1662 | 1982 | 1683 | 1894 | 1600 | 1140 | 711 | 297 | 235 | 440 | | 764 | 733 | 409 | 519 | 293 | 536 | 443 | 26 | | |

Summary of seed yield (kg ha^{-1}) for Orchard Grass in Western Canada 1997-2004

| Company | Variety | Seed yield / production year | | | | | | | | | |
|-----------------|-----------|------------------------------|------|--------|------|-------------|-----|--------|-----|--------------------|-----|
| | | Bow Island | | Brooks | | Beaverlodge | | Arborg | | Portage la Prairie | |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |
| Check | Kay | 581 | 865 | 1027 | 646 | 48 | 174 | 229 | 115 | 313 | 213 |
| Cascade | Mammoth | | | 822 | 25 | | | | | | |
| Northstar Seed | A2000 | | | | | | | 343 | 169 | 352 | 237 |
| | APlus | | | | | | | 343 | 135 | 294 | 202 |
| | Arctic | 760 | 942 | 725 | 859 | | | | | | |
| | Lidacta | 433 | 763 | 167 | 457 | | | | | | |
| Parsons Seeds | Haka | | | | | 119 | 265 | 341 | 239 | | |
| Pickseed Canada | OKAY | | | | | 71 | 166 | | | | |
| Tomorrow's Seed | OG2000ABC | 344 | 1044 | | | | | | | | |
| | OG2000DEF | 281 | 1011 | | | | | | | | |
| | TS-A2000 | | | | | | | 688 | | | |
| | TS-A4 | | | | | | | 516 | | | |
| | TS-AP | | | | | | | 398 | | | |
| | TS-HATT | | | | | | | 565 | | | |
| | TS-MYK | | | | | | | 278 | | | |
| | TS-PX2 | | | | | | | 159 | | | |
| | TS-VLA | | | | | | | 587 | | | |
| | TS02 A4 | | | 773 | 1089 | | | | | | |
| | TS02 MLYK | 1244 | 1003 | 613 | 1032 | | | | | | |
| | TS02 MYK | | | 789 | 1158 | | | | | | |
| Turf-Seed | Elsie | 84 | 334 | | | | | | | 101 | 144 |
| | Megabite | 156 | 436 | | | | | | | 332 | 268 |
| | Mean | 485 | 800 | 702 | 752 | 79 | 202 | 404 | 165 | 278 | 213 |

Summary of seed yield (kg ha^{-1}) for Perennial Ryegrass in Western Canada 1997-2004

| Company | Variety | Type | Seed yield | | | | | | | |
|-------------------|----------------------|--------|------------|--------|-------------|---------------|---------|---------|--------|--------------------|
| | | | Bow Island | Brooks | Beaverlodge | Fort St. John | Melfort | Outlook | Arborg | Portage la Prairie |
| Check | Norlea | Forage | 1994 | 1511 | 862 | 1500 | 338 | 527 | 417 | 275 |
| Advanta | Dimension | Turf | 700 | 1081 | | | | | | |
| Cascade | Catia | | 692 | 1202 | | | | | | |
| | Pearl | Turf | 966 | 1159 | | | | | | |
| DLF-International | Cambridge | | 842 | 955 | | | | | | |
| | ER2012 | | 911 | 936 | | | | | | |
| | ET161 | | 679 | 323 | | | | | | |
| | Gator II | Turf | 1132 | 1543 | | | | | 567 | 179 |
| | LP49 | | 343 | 371 | | | | | | |
| | Minerva | | 686 | 292 | | | | | | |
| | Platinum | | | | | | | | 555 | 192 |
| | Respect | | 982 | 862 | | | | | | |
| DSV | LPR 98143 | Turf | 1787 | 1508 | | | | | | |
| | LPR 98144 | Turf | 2099 | 1731 | | | | | | |
| Lesco | LSPR CT 98-1 | | 1880 | | 1103 | 1129 | | | | |
| | LSPR CT 98-2 | | 1887 | | 694 | 936 | | | | |
| Newfield Seeds | NSCL 32 | | | | | | | 31 | 590 | |
| Pickseed Canada | 94-1 | | | 1513 | | | | | | |
| | Cutter | Turf | | | 566 | 772 | | | | |
| | Dancer | | 1754 | | | | | | | |
| | Darius | | | 883 | | | | | | |
| | Lex 86 | | 1173 | 896 | | | | | | |
| | Lowgrow | | 2145 | 1604 | | | | | | |
| | LPEE 93 | | 1124 | 974 | 792 | 573 | | | | |
| | Magyar | | | 966 | | | | | | |
| | Pick F3 (Fiesta III) | | 2484 | 1979 | | | | | | |
| | Pick PR 1-94 | | 1605 | | | | | | 689 | |
| | Secretariat | | 1144 | 1304 | | | | | | |
| | Sunshine | | 2158 | 1577 | | | | | | |

cont. next page

Summary of seed yield (kg ha^{-1}) for Perennial Ryegrass in Western Canada 1997-2004 (cont.)

| Company | Variety | Type | Seed yield | | | | | | | |
|------------|----------------|------|------------|--------|-------------|---------------|---------|---------|--------|--------------------|
| | | | Bow Island | Brooks | Beaverlodge | Fort St. John | Melfort | Outlook | Arborg | Portage la Prairie |
| Scotts | DS95-201 | | | | | | | | | 201 |
| | Majesty | | 979 | 1441 | | | | | | |
| | MB45 | | 883 | 1247 | | | | | | |
| | Rutgers 8000 | | 2609 | | | | | | | 222 |
| Turf- Seed | Brightstar | Turf | 1785 | 1303 | 794 | | | | | |
| | Brightstar II | Turf | 1539 | 1457 | 922 | | | | | 244 |
| | Brightstar SLT | Turf | 1927 | 1146 | | | | | | 290 |
| | Catalina | | 1828 | | | | | | | |
| | Catalina II | Turf | 2416 | 1541 | | | | | | |
| | Chaparral | | 1860 | 1450 | 142 | | | | | |
| | Chaparral II | Turf | 1303 | 418 | | | | | | |
| | Charger II | Turf | 1677 | 1687 | 236 | | | | | |
| | Citation Fore | Turf | 2091 | 1498 | | | | | | |
| | Citation III | Turf | 628 | 1236 | | | | | | |
| | Quick Trans | | 1561 | 875 | | | | | | |
| | Quicksilver | Turf | 1102 | | | | | | | |
| | Roadrunner | | 2762 | 2228 | 279 | | | | | |
| | Salinas | Turf | 1981 | 1004 | | | | | | |
| | Tolerator | | 2435 | 1734 | 243 | | | | | |
| Proven | Barball | Turf | 900 | 1078 | | | | | | |
| | Barclay | Turf | 573 | 587 | | | | | | |
| | Barlow | | 587 | 457 | | | | | | |
| | Barrage | Turf | 857 | 1071 | | | | | | |
| | Penguin | | | 1873 | | | | | | |
| | SR4010 | | | 2018 | | | | | | |
| | SR4100 | | | 1979 | | | | | | |
| | SR4200 | | | 2014 | | | | | | |
| Mean | | | 1537 | 1279 | 625 | 982 | 185 | 559 | 557 | 218 |

Summary of seed yield (kg ha^{-1}) for Timothy in Western Canada 1997-2004

| Company | Variety | Seed yield / production year | | | | | | | | | | | | |
|-------------------|---------------------|------------------------------|-----|-----|-------------|-----|-----|---------------|-----|------|---------|----|--------|----|
| | | Bow Island | | | Beaverlodge | | | Fort St. John | | | Melfort | | Arborg | |
| | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 1 | 2 |
| Check | Climax | 346 | 641 | 609 | 191 | 192 | 128 | 562 | 448 | 598 | 532 | 35 | 209 | 29 |
| DLF-International | Bilbo | 510 | 746 | 700 | 201 | 253 | 102 | 743 | 436 | 301 | | | | |
| | Dolina | 435 | 726 | 653 | 194 | 235 | 70 | 644 | 253 | 211 | | | | |
| | DP 70-9707 | | | | | | | 404 | | | | | 156 | |
| | DP 70-9802 | | | | | | | 613 | | | | | 388 | |
| | DVP 001657 | | | | 113 | 205 | 62 | 530 | 297 | 179 | | | | |
| | Latima | | | | 111 | 166 | 165 | | | | | | 293 | 5 |
| | Tundra | 363 | 684 | 518 | 250 | 223 | 54 | 621 | 375 | 224 | | | | |
| Moore Seed | Winnetou | | | | | | | 692 | | | | | 421 | |
| | Grasslands Charlton | | | | 362 | 283 | | 445 | | | | | | |
| | SBT 9501 | | | | 427 | | | 448 | | | | | | |
| Parsons Seeds | BOR 72002 | | | | 147 | 109 | 111 | | | | | | 322 | 31 |
| | BOR 94301 | | | | 122 | 113 | 108 | | | | | | 374 | 45 |
| | BOR 94322 | | | | 172 | 103 | 90 | | | | | | 306 | 54 |
| | BOR 94372 | | | | 296 | 186 | 214 | | | | | | | |
| | BOR 94373 | | | | 241 | 157 | 195 | | | | | | | |
| | BOR 94374 | | | | 329 | 172 | 214 | | | | | | | |
| Pickseed Canada | Fidanza | | | | 168 | 183 | 177 | | | | | | | |
| | RUP03 | | | | 125 | 151 | 212 | | | | | | | |
| Proven | UGG 1703 | | | | 265 | 138 | 103 | 672 | 712 | 1047 | 532 | 35 | 309 | 33 |
| Mean | | 414 | 699 | 620 | 195 | 174 | 148 | 599 | 428 | 451 | | | | |

Appendix 1

Alberta Weather Data

| | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Seasonal Mean or Total |
|---------------------------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|------------------------------|
| Beaverlodge CDA | 2004 | -15.5 | -5.5 | -1.9 | 5.1 | 8.2 | 14.8 | 16.4 | 15.9 | | | | | |
| Mean Monthly Temp. (C) | 2003 | -10.7 | -8.5 | -8.4 | 2.0 | 8.4 | 13.8 | 16.7 | 13.9 | 8.9 | 5.3 | -6.7 | | |
| | 2002 | -11.5 | -5.8 | -12.8 | -1.4 | 6.8 | 14.9 | 15.8 | 14.2 | 8.4 | 1.9 | -0.4 | -5.2 | 2.1 |
| | 2001 | -1.6 | -10.2 | -3.2 | 3.5 | 9.1 | 12.5 | 15.0 | 15.1 | 10.5 | 3.4 | -3.9 | -11.9 | 3.9 |
| | 2000 | -13.9 | -7.5 | -2.3 | 3.0 | 6.9 | 12.9 | 15.1 | 13.4 | 9.3 | 3.7 | -2.2 | -12.4 | 2.2 |
| | 30 yr | -13.1 | -10.0 | -4.0 | 3.7 | 9.8 | 13.4 | 15.3 | 14.3 | 9.9 | 4.3 | -5.7 | -10.7 | 1.8 |
| Mean Monthly Precip. (mm) | 2004 | 9.4 | 0.0 | 0.0 | 0.0 | 0.0 | 21.1 | 54.3 | 0.0 | | | | | |
| | 2003 | 49.7 | 21.7 | 30.7 | 22.8 | 14.2 | 46.0 | 37.8 | 63.8 | 31.6 | 35.7 | 14.6 | | |
| | 2002 | 17.9 | 8.9 | 25.9 | 24.0 | 32.5 | 40.6 | 47.7 | 24.2 | 48.1 | 23.7 | 17.9 | 0.2 | 311.6 |
| | 2001 | 10.8 | 11.2 | 11.6 | 12.4 | 18.2 | 34.8 | 108.2 | 40.0 | 12.8 | 15.7 | 8.0 | 9.7 | 293.4 |
| | 2000 | 2.2 | 4.2 | 1.4 | 15.6 | 26.4 | 43.2 | 42.4 | 104.0 | 47.4 | 33.8 | 9.2 | 6.6 | 336.4 |
| | 30 yr | 32.3 | 22.6 | 19.5 | 18.2 | 41.6 | 77.4 | 72.4 | 63.6 | 45.7 | 24.3 | 24.0 | 29.6 | 448.6 |
| Bow Island | 2004 | -11.1 | -5.6 | 3.1 | 7.4 | 9.6 | 14.1 | 18.6 | | 11.6 | 5.8 | | | |
| Mean Monthly Temp. (C) | 2003 | -6.5 | -8.3 | -3.0 | 7.0 | 10.3 | 15.7 | 19.2 | 20.3 | 12.0 | 8.6 | -7.3 | -4.6 | 5.3 |
| | 2002 | -5.6 | -2.9 | -12.1 | 2.5 | 9.3 | 16.1 | 20.4 | 15.7 | 12.4 | 2.5 | 2.2 | -2.8 | 4.8 |
| | 2001 | -4.0 | -12.3 | 1.7 | 6.1 | 13.7 | 15.7 | 20.1 | 21.1 | 15.5 | 6.1 | 2.5 | -7.4 | 7.9 |
| | 2000 | -9.0 | -5.9 | 1.7 | 5.9 | 11.9 | 15.4 | 20.6 | 18.9 | 13.0 | 7.0 | -3.4 | -10.9 | 5.4 |
| | 30 yr | -9.0 | -6.3 | -1.1 | 6.4 | 11.6 | 17.8 | 18.6 | 18.2 | 12.7 | 7.6 | -2.1 | -7.4 | 5.6 |
| Mean Monthly Precip. (mm) | 2004 | 1.8 | 1.8 | 53.9 | 11.9 | 41.7 | 36.1 | 26.2 | | 9.9 | 9.6 | | | |
| | 2003 | 2.3 | 5.6 | 4.3 | 31.7 | 30.0 | 60.5 | 4.1 | 2.8 | 23.4 | 10.2 | 5.8 | 0.0 | 180.7 |
| | 2002 | 3.3 | 1.6 | 4.1 | 17.6 | 41.9 | 176.4 | 33.0 | 67.4 | 67.4 | 10.9 | 10.7 | 1.8 | 436.1 |
| | 2001 | 4.1 | 0.9 | 6.1 | 13.2 | 11.8 | 80.8 | 15.0 | 1.2 | 1.2 | 12.6 | 4.1 | 1.1 | 152.1 |
| | 2000 | 3.5 | 9.4 | 14.2 | 16.4 | 8.4 | 50.6 | 11.0 | 16.2 | 27.4 | 10.2 | 6.8 | 7.6 | 181.8 |
| | 30 yr | 16.7 | 11.3 | 12.8 | 28.9 | 43.8 | 71.0 | 31.8 | 38.0 | 39.5 | 12.3 | 14.8 | 17.1 | 338.0 |

| | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Seasonal Mean or Total |
|---------------------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------------------------|
| Brooks CDC South | 2004 | -12.7 | -7.6 | 1.7 | 6.9 | 9.5 | 14.2 | 18.6 | 16.6 | 11.0 | 4.7 | | | |
| | 2003 | -8.7 | -8.9 | -3.4 | 6.3 | 9.8 | 15.4 | 19.7 | 20.2 | 11.9 | 8.3 | -9.3 | -7.1 | 4.5 |
| | 2002 | -7.5 | -3.3 | -13.2 | 2.3 | 9.4 | 16.2 | 19.8 | 15.9 | 11.9 | 2.0 | 1.1 | -4.4 | 4.2 |
| | 2001 | -3.7 | -13.4 | 1.2 | 5.5 | 13.0 | 15.4 | 19.8 | 20.0 | 14.3 | 5.2 | 1.6 | -9.3 | 5.8 |
| | 2000 | -11.3 | -8.1 | 0.9 | 5.5 | 11.3 | 15.0 | 20.2 | 18.3 | 11.8 | 6.3 | -5.0 | -11.8 | 4.4 |
| | 30 yr | -11.6 | -8.2 | -2.0 | 5.7 | 11.5 | 15.9 | 18.5 | 17.8 | 12.0 | 6.1 | -3.5 | -9.4 | 4.4 |
| Mean Monthly Precip. (mm) | 2004 | 0 | 1.2 | 1.2 | 14.0 | 36.4 | 64.8 | 37.6 | 67.0 | 8.6 | 5.4 | | | |
| | 2003 | 7.7 | 8.4 | 3.6 | 32.6 | 28.6 | 59.0 | 9.4 | 13.4 | 33.8 | 25.4 | 13.6 | 0.0 | 235.5 |
| | 2002 | 5.1 | 0.0 | 11.1 | 5.6 | 9.2 | 111.6 | 23.2 | 53.4 | 54.2 | 9.4 | 1.6 | 3.2 | 284.6 |
| | 2001 | 8.3 | 42.9 | 13.0 | 10.0 | 19.6 | 42.8 | 13.8 | 1.4 | 16.6 | 8.9 | 15.5 | 3.6 | 156.2 |
| | 2000 | 14.8 | 12.5 | 6.6 | 11.3 | 12.8 | 28.6 | 3.4 | 31.4 | 24.4 | 51.6 | 6.3 | 5.8 | 209.5 |
| | 30 yr | 14.9 | 11.6 | 21.4 | 24.8 | 41.7 | 57.6 | 39.0 | 37.9 | 34.3 | 13.7 | 14.3 | 17.3 | 328.5 |

Provided by the Conservation and Development Branch, AAFRD. This information is based on unverified preliminary data obtained from Environment Canada.

Appendix 2.

Saskatchewan Weather Data

| | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Seasonal Mean or Total |
|----------------------------|---------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|------------------------|
| Melfort | 2004 | -21.8 | -10.6 | -7.5 | 2.7 | 6.9 | 12.8 | 16.5 | 13.4 | 10.5 | 3.0 | | | |
| Mean Monthly Temp. (C) | 2003 | -18.0 | -18.7 | -10.3 | 3.7 | 12.6 | 15.3 | 18.0 | 20.0 | 10.4 | 5.4 | -9.6 | -10.0 | 1.6 |
| | 2002 | -17.9 | -13.1 | -13.1 | -2.9 | 7.5 | 19.8 | 20.7 | 15.3 | 11.5 | -0.8 | | | 2.7 |
| | 2001 | -9.1 | -18.2 | -5.4 | -7.5 | 3.5 | 14.1 | 18.8 | 19.1 | 13.6 | 3.5 | -3.3 | -11.9 | 1.4 |
| | 2000 | -18.6 | -11.1 | -1.5 | 2.8 | 9.1 | 13.0 | 17.6 | 16.5 | 11.0 | 4.4 | 3.2 | -21.4 | 2.1 |
| | 30 yr. | -19.1 | -15.5 | -9.0 | 2.2 | 10.6 | 15.5 | 17.6 | 16.3 | 10.4 | 3.9 | -7.0 | -16.2 | 0.8 |
| Total Monthly Precip.(mm) | 2004 | 30.0 | 10.2 | 34.8 | 11.8 | 85.2 | 66.0 | 56.4 | 54.8 | 52.0 | 15.1 | | | |
| | 2003 | 4.7 | 10.0 | 10.7 | 27.5 | 45.0 | 52.0 | 35.8 | 24.4 | 23.2 | 0.0 | 0.0 | 21.9 | 255.2 |
| | 2002 | 9.3 | 10.0 | 14.6 | 17.3 | 5.0 | 56.2 | 57.8 | 130.6 | 24.6 | 25.4 | | | 350.8 |
| | 2001 | 4.5 | 9.6 | 2.6 | 60.0 | 11.1 | 20.4 | 46.4 | 11.4 | 12.0 | 9.9 | 9.1 | 12.4 | 209.4 |
| | 2000 | 18.6 | 6.4 | 4.4 | 15.0 | 42.6 | 73.6 | 106.4 | 49.6 | 25.4 | 25.4 | 6.6 | 39.6 | 413.6 |
| | 30 yr. | 17.7 | 13.9 | 18.5 | 20.7 | 41.4 | 61.9 | 66.6 | 53.1 | 41.4 | 26.6 | 18.2 | 22.5 | 402.5 |
| Outlook (PFRA) | 2004 | -16.4 | -7.6 | -0.8 | 6.4 | 9.1 | 14.5 | 17.9 | 14.9 | 11.5 | 4.1 | | | |
| Mean Monthly Temp. (C) | 2003 | -13.6 | -13.4 | -6.8 | 5.6 | 12.2 | 16.2 | 19.8 | 21.0 | 12.3 | 8.0 | -7.8 | -6.3 | 3.9 |
| | 2002 | -11.1 | -5.5 | -11.9 | -0.8 | 9.8 | 17.3 | 20.4 | 17.2 | 12.2 | 1.0 | -2.5 | -5.9 | 3.4 |
| | 2001 | -7.2 | -15.5 | -1.6 | -4.8 | 5.8 | 15.2 | 19.7 | 19.8 | 14.7 | 3.9 | 0.3 | 10.4 | 5.1 |
| | 2000 | -14.2 | -9.1 | -0.2 | 4.8 | 11.8 | 14.4 | 19.2 | 17.9 | 12.7 | 5.7 | 5.2 | -17.0 | 4.3 |
| | 30 yr. | -15.5 | -11.8 | -5.3 | 4.6 | 11.8 | 16.6 | 19.0 | 18.0 | 12.0 | 5.9 | -4.5 | -12.7 | 3.2 |
| Total Monthly Precip. (mm) | 2004 | 20.0 | 8.3 | 20.6 | 20.2 | 24.0 | 57.8 | 78.6 | 119.8 | 24.1 | 33.6 | | | |
| | 2003 | 17.3 | 30.3 | 9.7 | 61.0 | 27.8 | 20.0 | 41.6 | 12.8 | 27.8 | 19.8 | 7.1 | 3.3 | 278.5 |
| | 2002 | 0.6 | 0.0 | 2.8 | 9.6 | 14.0 | 55.6 | 22.8 | 54.4 | 39.2 | 34.4 | 14.2 | 21.0 | 268.6 |
| | 2001 | 1.0 | 7.1 | 6.6 | 8.7 | 24.2 | 27.9 | 99.2 | 2.4 | 13.4 | 27.6 | 3.4 | 6.8 | 228.3 |
| | 2000 | 29.3 | 7.9 | 12.7 | 33.0 | 15.4 | 50.8 | 82.2 | 49.5 | 34.6 | 6.1 | 56.2 | 31.4 | 409.1 |
| | 30 yr. | 14.8 | 13.0 | 17.9 | 17.9 | 39.3 | 60.4 | 54.5 | 34.2 | 28.6 | 13.6 | 12.8 | 16.4 | 323.4 |

Appendix 3

Manitoba Weather Data

| | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Seasonal Mean or Total |
|---------------------------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|------------------------------|
| Arborg | 2004 | | | | | 7.9 | 13.8 | 17.5 | 14.5 | | | | | |
| Mean Monthly Temp. (C) | 30 yr | | | | | 10.5 | 15.7 | 18.3 | 17.1 | | | | | |
| Mean Monthly Precip. (mm) | 2004 | | | | | 102 | 43.5 | 59.5 | 113.5 | | | | | |
| | 30 yr | | | | | 47.6 | 76.9 | 70.9 | 79.7 | | | | | |
| Portage la Prairie | 2004 | | | | | | | | | | | | | |
| Mean Monthly Temp. (C) | 2003 | | | | | 12.6 | 16.7 | 19.5 | 20.9 | | | | | |
| | 2002 | -12.7 | -8.3 | -11.0 | 1.9 | 8.8 | 17.7 | 20.9 | 17.6 | | | | | |
| | 2001 | -9.9 | -16.2 | -4.7 | 4.5 | 12.6 | 15.8 | 20.1 | 19.1 | 13.0 | 4.6 | | | |
| | 2000 | -15.3 | -7.6 | 0.2 | 4.3 | 11.5 | 14.3 | 19.1 | 18.4 | 11.9 | 6.7 | -5.4 | -20.4 | |
| | 30 yr | -16.3 | -12.9 | -5.6 | 4.3 | 11.5 | 17.0 | 19.8 | 18.4 | 12.4 | 5.5 | -4.8 | -13.7 | |
| Mean Monthly Precip. (mm) | 2004 | | | | | | | | | | | | | |
| | 2003 | | | | | 69.4 | 139.0 | 27.4 | 49.2 | | | | | |
| | 2002 | 12.1 | 8.9 | 19.5 | 30.7 | 30.7 | 125.6 | 70.8 | 98.9 | 36.5 | | | | |
| | 2001 | 7.2 | 9.3 | 31.7 | 30.7 | 133.2 | 94.1 | 90.0 | 30.0 | 30.2 | 45.0 | | | |
| | 2000 | 18.4 | 72.8 | 25.8 | 9.8 | 56.6 | 110.8 | 159.0 | 67.6 | 74.2 | 29.6 | 79.4 | 27.8 | |
| | 30 yr | 21.0 | 16.2 | 26.8 | 34.5 | 57.1 | 79.0 | 72.3 | 79.2 | 58.5 | 37.1 | 22.2 | 22.0 | |

Western Grass Seed Testing (WGST) Program

Application for Entry

1. Company: _____ Contact person: _____

Mailing
address

2. 2005 entries: (if you wish to add more entries, please attach another sheet)

| Species | Type (Forage, Turf) | Variety name/code | % germ | Relative maturity (early, medium, late) |
|---------|---------------------------|-------------------|-----------|---|
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3. Please indicate at which locations you wish your entries tested (see attached map). The applicant will be invoiced once test sites for the current test year are finalized.

| | | | |
|----------------------|-------|------------------------------|-------|
| Fort St. John, BC | _____ | Melfort, SK | _____ |
| Beaverlodge, AB | _____ | Outlook, SK (IRR) | _____ |
| Bow Island, AB (IRR) | _____ | Portage La Prairie, MB (IRR) | _____ |
| Brooks, AB (IRR) | _____ | Arborg, MB | _____ |
| Vegreville, AB | _____ | | |

Send by March 1, 2005 to: Henry Najda
 Crop Diversification Centre South
 SS 4
 Brooks, AB Canada T1R 1E6
 Phone: 403-362-1346, Fax: 403-362-1306, or
 e-mail: henry.najda@gov.ab.ca.