

**British Columbia**

**Alberta**

# **Western Canadian Grass Seed Testing Program**



## **2002 Report**

**Saskatchewan**

**Manitoba**



## **INTRODUCTION**

This report provides a summary of the grass seed trials conducted under the Western Grass Testing Program during 2002. 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.

We thank the following companies for their sponsorship of our 2002 research endeavors and look forward to cooperating and working with them during the 2003 production year.

Alberta Research Council  
Agriculture & Agri-Food Canada  
Brett-Young Seeds Ltd.  
Cebeco International Seeds, Inc.  
DLF-Trifolium  
Deutsche Saatveredelung  
Lesco, Inc.  
Moore Seed Processors Inc.  
Newfield Seeds Company Inc.  
Northstar Seed Ltd.  
Parsons Seeds  
Pickseed Canada  
Scott's Company  
Tomorrow's Seed  
Turf-Seed, Inc.

## Data Collection Procedures

Seed Yield	reported on a clean seed basis in kg ha <sup>-1</sup> ( kg ha <sup>-1</sup> x 0.9 = lbs ac <sup>-1</sup> )
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.

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# **Protocol for Western Grass Seed Testing (WGST) Program**

## **1. Research Sponsorship**

The research sponsorship will be \$120CAN/entry/year/location and is requested on an annual basis as years of production will vary with the species being tested. The charge is applied for the establishment year. 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 to **NOT** 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 of bentgrass, Kentucky bluegrass or timothy
- 100 gm of creeping red, chewings, hard, meadow, sheep and tall fescue, annual or perennial ryegrass or orchard grass
- 200 gm of meadow or smooth bromegrass

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. Also, in the case of 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 (see map page 3)**

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

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

## **6. Test Description**

Due to plot equipment differences and land availability at the various test sites, certain minimums will 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 is to 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	Orchard Grass - Kay - 3 yrs
Meadow Bromegrass - Fleet - 4 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.

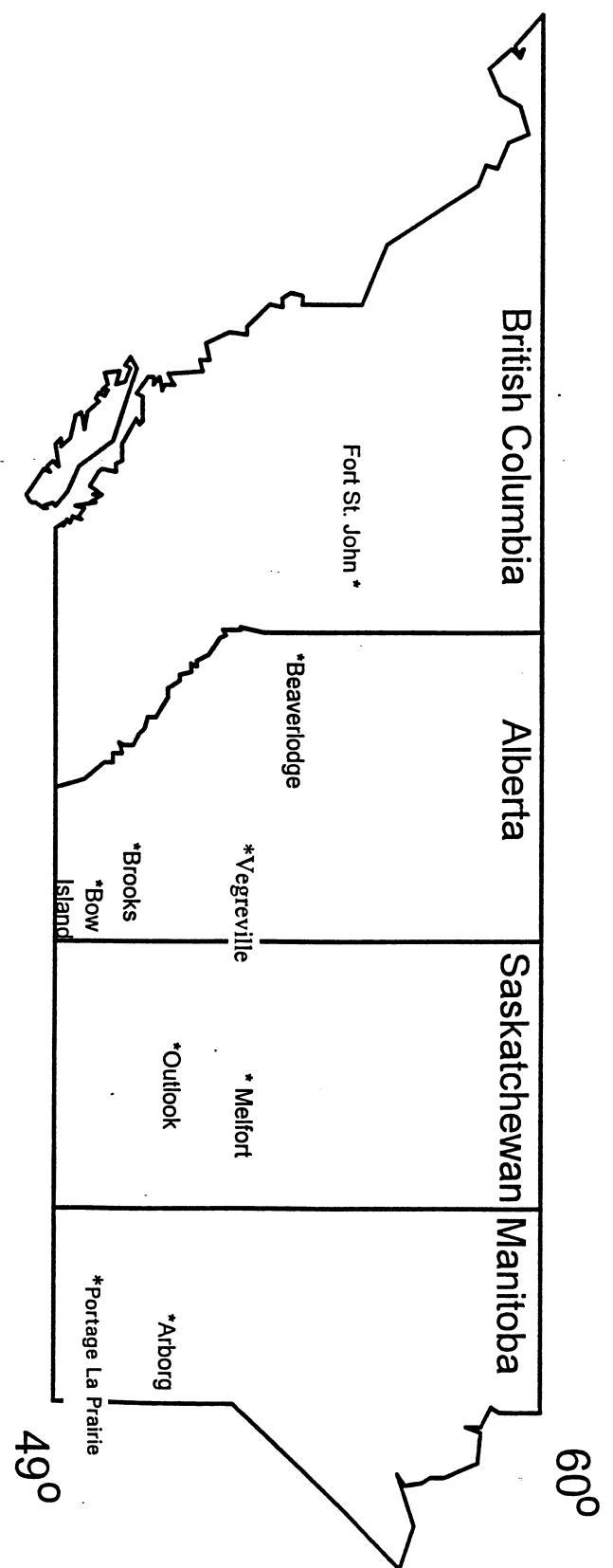
## **7. Publication of Results**

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 upon request to seed producers.

- 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.
- 9.** For further information, contact:

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## Locations in Western Canada for Grass Seed Testing



**Kentucky Bluegrass 1999 Seed Production Trial**  
**Bow Island, Alberta 2002 Results**

Company	Variety	Seed Yield (kg ha <sup>-1</sup> )	Harvest Date	Plant Height (cm)
CHECK	ABBEY	713	25-Jul-02	61
LESCO	LSKB CT-1	165	17-Jul-02	71
	LSKB CT-2	252	17-Jul-02	68
TURF-SEED	BLUESTAR	372	25-Jul-02	59
	DENIM	520	25-Jul-02	63
	VOYAGER	306	17-Jul-02	72
	Mean	388	.	66
	CV (%)	19.6		7.8
	LSD (0.05)	115		8

**Kentucky Bluegrass 1999 Seed Production Trial**  
**Brooks, Alberta 2002 Results**

Company	Variety	Seed Yield (kg ha <sup>-1</sup> )	Harvest Date	Plant Height (cm)
CHECK	ABBEY	806	23-Jul-02	70
TURF-SEED	BLUESTAR	718	23-Jul-02	66
	DENIM	672	23-Jul-02	72
	VOYAGER	481	23-Jul-02	81
	Mean	669	.	72
	CV (%)	15.9		5.5
	LSD (0.05)	170		6

**Kentucky Bluegrass 2000 Seed Production Trial**  
**Bow Island, Alberta 2002 Results**

Company	Variety	Seed Yield (kg ha <sup>-1</sup> )	Harvest Date	Plant Height (cm)
CHECK	ABBEY	1007	25-Jul-02	66
CEBECO SEEDS	VB 17921	414	25-Jul-02	71
DSV	N-545	483	30-Jul-02	69
	N-551	509	30-Jul-02	73
	N-552	724	22-Jul-02	80
	N-554	626	25-Jul-02	48
	PPR-11-85	677	25-Jul-02	76
SCOTT'S	HB-127	754	22-Jul-02	79
TURF-SEED	BRILLIANT	440	25-Jul-02	62
	LATO	268	22-Jul-02	86
	MOONLIGHT	411	30-Jul-02	63
	NORTH STAR	383	30-Jul-02	46
Mean		558	.	68
CV (%)		16.1		7.3
LSD (0.05)		129		7

**Kentucky Bluegrass 2000 Seed Production Trial**  
**Brooks, Alberta 2002 Results**

Company	Variety	Seed Yield (kg ha <sup>-1</sup> )	Harvest Date	Plant Height (cm)
CHECK DSV	ABBEY	584	29-Jul-02	64
	N-545	322	29-Jul-02	63
	N-551	431	29-Jul-02	69
	N-552	550	29-Jul-02	66
	N-554	356	29-Jul-02	69
	PPR 11-85	453	29-Jul-02	74
Mean		449	.	68
CV (%)		15.6		8.5
LSD (0.05)		106		ns

**Kentucky Bluegrass 2000 Seed Production Trial**  
**Beaverlodge, Alberta 2002 Results**

Company	Variety	Seed Yield (kg ha <sup>-1</sup> )	Harvest Date	Plant Height (cm)
CHECK TURF-SEED	ABBEY	239	1-Aug-02	40
	BLUESTAR	160	1-Aug-02	37
	DENIM	166	1-Aug-02	48
	VOYAGER	191	25-Jul-02	42
Mean		189	.	42
CV (%)		15.1		29.8
LSD (0.05)		56		ns

**Kentucky Bluegrass 2001 Seed Production Trial**  
**Beaverlodge, Alberta 2002 Results**

Company	Variety	Seed Yield (kg ha <sup>-1</sup> )	Harvest Date	Plant Height (cm)
CHECK	ABBEY	75	1-Aug-02	44
DLF-TRIFOLIUM	BLUE KNIGHT	39	1-Aug-02	51
	BROADWAY	65	1-Aug-02	39
	Mean	60	.	45
	CV (%)	28.1		12.4
	LSD (0.05)	ns		ns

**Kentucky Bluegrass 2001 Seed Production Trial**  
**Outlook, Saskatchewan 2002 Results**

Company	Variety	Seed Yield (kg ha <sup>-1</sup> )	Harvest Date	Plant Height (cm)
CHECK	ABBEY	531	31-Jul-02	.
TURF-SEED	BLUESTAR	345	31-Jul-02	.
	BRILLIANT	235	31-Jul-02	.
	MOONLIGHT	182	31-Jul-02	.
	NORTH STAR	123	31-Jul-02	.
	Mean	283	.	.
	CV (%)	41.8		
	LSD (0.05)	183		

**Summary of seed yield ( $\text{kg ha}^{-1}$ ) for Kentucky Bluegrass in Western Canada 1997-2002**

Company	Variety	Seed yield (kg/ha) per Production year										
		Bow Island			Brooks			Beaverlodge			Outlook	
		1	2	3	1	2	3	1	2	3	1	2
Check	Abbey	1187	1303	847	1270	933	865	187	313	186	501	349
Cebeco Seeds	VB 17921	468	636	214	759	507	369				287	479
	VB 19111	880	1044	298	989	604	600				253	437
DLF - Trifolium	Blue Knight									39		
	Broadway									65		
DVS	N-545	740	483		1550	322						
	N-551	603	509		1025	431						
	N-552	637	724		972	550						
	N-554	372	626		1186	356						
	PPR 11-85	588	677		1117	453						
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	Banff	1264	326		838	439						
	Pick 113-3				769	407						
	Pick H94-301	1146	503		838	594						
Scott's	HB-127	881	754									
Turf-Seed	Bluestar	1393	684	372	1470	944	718	253	160		345	
	Brilliant	534	440								235	
	Denim	1554	635	520	945	775	672	124	166			
	Lato	291	268									
	Moonlight	672	411								182	
	North Star	539	383								123	
	PST 638	504	705	151	375	162	205	150	97	72		
	Voyager	959	452	306	1054	554	481	11	191			
Mean		901	710	444	975	596	551	154	245	172	303	422

**Smooth Bromegrass 2000 Seed Production Trial  
Portage la Prairie (A), Manitoba 2002 Results**

Company	Variety	Seed Yield (kg ha <sup>-1</sup> )	Plant Harvest Date	Height (cm)
CHECK	CARLTON	576	9-Aug-02	.
PICKSEED	BRAVO	446	9-Aug-02	.
	Mean	511	.	.
	CV (%)	18.2		

**Smooth Bromegrass 2000 Seed Production Trial  
Portage la Prairie, Manitoba 2002 Results**

Company	Variety	Seed Yield (kg ha <sup>-1</sup> )	Plant Harvest Date	Height (cm)
CHECK	CARLTON	594	9-Aug-02	.
PICKSEED	BRAVO	501	9-Aug-02	.
	Mean	548	.	.
	CV (%)	1.8		

**Summary of seed yield ( $\text{kg ha}^{-1}$ ) for Smooth Bromegrass in Western Canada 1997-2001**

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Company	Variety	Seed yield (kg/ha) per Production year									
		Brooks			Beaverlodge			Fort St. John		Portage la Prairie	
		1	2	3	1	2	3	1	2	1	2
Check	Carlton	1384	415	607	678	462	292	750	920	214	585
Pickseed	Bravo	969	288	375	378	222	109	416	642	112	474
Mean		1177	352	491	528	342	200	583	781	163	529

**Fine Fescue 1999 Seed Production Trial**  
**Fort St. John, British Columbia 2002 Results**

Company	Variety	Seed	Plant	
		Yield (kg ha <sup>-1</sup> )	Harvest Date	Height (cm)
RESEARCH COUNCIL	ARCFS-1	187	15-Jul-02	.
	ARCFS-2	363	10-Jul-02	.
	ARCFS-V	160	25-Jul-02	.
	Mean	237	.	.
	CV (%)	42.3		
	LSD (0.05)	ns		

**Fine Fescue 2000 Seed Production trial**  
**Bow Island, Alberta 2002 Results**

Company	Variety	Seed Yield (kg ha <sup>-1</sup> )	Harvest Date	Plant Height (cm)
CHECK	BOREAL	1326	17-Jul-02	68
TURF-SEED	DISCOVERY	987	11-Jul-02	67
	MIRAMAR	748	17-Jul-02	61
	SHADEMASTER II	831	17-Jul-02	69
	Mean	973	.	66
	CV (%)	9.7		5.4
	LSD (0.05)	150		6

**Fine Fescue 2000 Seed Production Trial**  
**Brooks, Alberta 2002 Results**

Company	Variety	Seed Yield (kg ha <sup>-1</sup> )	Harvest Date	Plant Height (cm)
CHECK	BOREAL	1109	23-Jul-02	71
TURF-SEED	DISCOVERY	685	12-Jul-02	71
	MIRAMAR	526	23-Jul-02	66
	SHADEMASTER II	558	23-Jul-02	71
	Mean	720	.	70
	CV (%)	10.4		5.2
	LSD (0.05)	120		ns

**Fine Fescue 2000 Seed Production Trial**  
**Beaverlodge, Alberta 2002 Results**

Company	Variety	Seed Yield (kg ha <sup>-1</sup> )	Harvest Date	Plant Height (cm)
CHECK	BOREAL	534	25-Jul-02	70
BRETT-YOUNG	BY51751	134	29-Jul-02	60
CEBECO SEEDS	CASANOVA	323	23-Jul-02	66
	RU1511	487	23-Jul-02	64
RESEARCH COUNCIL	ARCFS-1	297	17-Jul-02	45
	ARCFS-2	371	4-Jul-02	41
	ARCFS-V	379	23-Jul-02	47
TURF-SEED	FLORENTINE	152	29-Jul-02	54
	MIRAMAR	290	25-Jul-02	62
Mean		330	.	57
CV (%)		24.1		7.1
LSD (0.05)		116		6

**Fine Fescue 2000 Seed Production Trial**  
**Fort St. John, British Columbia 2002 Results**

Company	Variety	Seed Yield (kg ha <sup>-1</sup> )	Harvest Date	Plant Height (cm)
CHECK	BOREAL	229	26-Jul-02	.
BRETT-YOUNG	BY51751	23	29-Jul-02	.
CEBECO SEEDS	CASANOVA	361	25-Jul-02	.
	RU1511	198	26-Jul-02	.
RESEARCH COUNCIL	ARCFS-1	335	12-Jul-02	.
	ARCFS-2	580	10-Jul-02	.
	ARCFS-V	348	25-Jul-02	.
Mean		296	.	.
CV (%)		42.1		
LSD (0.05)		188		

**Fine Fescue 2001 Seed Production Trial**  
**Beaverlodge, Alberta 2002 Results**

Company	Variety	Seed Yield (kg ha <sup>-1</sup> )	Harvest Date	Plant Height (cm)
CHECK	BOREAL	817	25-Jul-02	71
CEBECO SEEDS	RU1511	793	25-Jul-02	60
	RU1645	737	25-Jul-02	73
	Mean	782	.	68
	CV (%)	13.1		5.3
	LSD (0.05)	ns		6

**Fine Fescue 2001 Seed Production Trial**  
**Fort St. John, British Columbia 2002 Results**

Company	Variety	Seed Yield (kg ha <sup>-1</sup> )	Harvest Date	Plant Height (cm)
CHECK	BOREAL	1039	27-Jul-02	.
CEBECO SEEDS	RU 1511	923	27-Jul-02	.
	RU 1645	813	27-Jul-02	.
	Mean	925	.	.
	CV (%)	24.9		
	LSD (0.05)	ns		

### Summary of seed yield ( $\text{kg ha}^{-1}$ ) for Fine Fescues in Western Canada 1997-2001

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Species	Company	Variety	Seed yield (kg/ha) per Production year									
			Bow Island		Brooks		Beaverlodge		Fort St. John		Melfort	
			1	2	1	2	1	2	1	2	1	2
Chewings	Check	Boreal	2212	1734	1778	1083	884	526	1159	489	357	35
	Cebeco Seeds	Casanova					506	323	1400	1021		
	Pickseed	Victory II	2685	718	1218	466						
	Turf-Seed	Tiffany	1107	1509	929	1274						
Creeping		Eugene					949	532				
	Brett-Young	BY511751					297	134	1221	23		
	Cebeco Seeds	RU1511					711	487	1607	717		
		RU 1645					737		813			
	Newfield Seeds	SW Kristina	1222	1602			384	269	277	627	146	17
	Parsons Seeds	Kauni					956	687	1760	1274		
	Pickseed	Jasper					714	316	1687	993		
	Turf- Seed	Florentine	1549	590	828	614	269	152				
		Miramar	1281	748	1380	526	372	290				
		Shademaster II	1358	1134	1322	865						
Fine	Lesco	Proven Seed	UGG 2001				566	255	759	654		
			UGG 2002				425	301	407	729		
	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	Discovery	1161	986	1575	994						
		PST 4RU	1288	1654	1493	1016	112	692				
Sheep	Turf-Seed	Bighorn	1304	1077	2110	1465						
Slender	Peace Valley Seeds	Barcrown	404	492	0	587						
		Turf-Seed	1083	1191	726	199	171	207				
Mean			1432	1262	1214	826	515	379	1007	807	252	26

### Summary of seed yield ( $\text{kg ha}^{-1}$ ) for Mountain Fescue in Western Canada 1997-2001

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Species	Company	Variety	Seed yield (kg/ha) per Production year					
			Beaverlodge		Fort St. John			
			1	2	3	1	2	
Mountain	Research Council	ARCFS-1	398	297		1142	764	187
		ARCFS-2	467	371		1050	930	363
		ARCFS-V	372	379		1183	618	160
Mean			412	349		1125	771	237

**Meadow / Tall Fescue 1999 Seed Production Trial**  
**Beaverlodge, Alberta 2002 Results**

Company	Variety	Seed Yield (kg ha <sup>-1</sup> )	Plant Harvest Date	Height (cm)
CHECK	MIMER	104	1-Aug-02	74
CEBECO SEEDS	PREMIL	102	1-Aug-02	74
CHECK	COURTENAY	404	1-Aug-02	96
SCOTT'S	CODY	464	7-Aug-02	68
	WYATT	492	7-Aug-02	71
Mean		324	.	81
CV (%)		18.3		4.9
LSD (0.05)		90		6

**Meadow / Tall Fescue 1999 Seed Production Trial**  
**Fort St. John, British Columbia 2002 Results**

Company	Variety	Seed Yield (kg ha <sup>-1</sup> )	Plant Harvest Date	Height (cm)
CHECK	MIMER	159	3-Aug-02	.
CEBECO SEEDS	PREMIL	231	3-Aug-02	.
CHECK	COURTENAY	544	3-Aug-02	.
Mean		311	.	.
CV (%)		16.7		
LSD (0.05)		90		

**Tall Fescue 1999 Seed Production Trial  
Outlook, Saskatchewan 2002 Results**

Company	Variety	Seed Yield (kg ha <sup>-1</sup> )	Plant Height (cm)	Harvest Date
CHECK	COURTENAY	168	.	20-Aug-02
CEBECO SEEDS	CAJUN 2	146	.	20-Aug-02
	MARTIN 2	277	.	20-Aug-02
	Mean	197	.	.
	CV (%)	19.9		
	LSD (0.05)	68		

**Tall Fescue 2000 Seed Production Trial  
Bow Island, Alberta 2002 Results**

Company	Variety	Seed Yield (kg ha <sup>-1</sup> )	Plant Height (cm)	Harvest Date
CHECK	COURTENAY	1295	99	22-Jul-02
TURF-SEED	ENDEAVOR	1557	66	22-Jul-02
	MAXIMIZE	1044	86	22-Jul-02
	SPRING GREEN	634	69	30-Jul-02
	WOLFPACK	1465	73	22-Jul-02
	Mean	1199	78	.
	CV (%)	6	5.7	
	LSD (0.05)	111	7	

**Tall Fescue 2000 Seed Production Trial**  
**Beaverlodge, Alberta 2002 Results**

Company	Variety	Seed Yield (kg ha <sup>-1</sup> )	Harvest Date	Plant Height (cm)
CHECK	COURTENAY	324	1-Aug-02	99
SCOTT'S	RT-93	678	7-Aug-02	69
	Mean	593	.	78
	CV (%)	11.1		3.6

**Meadow Fescue 2000 Seed Production Trial**  
**Fort St. John, British Columbia 2002 Results**

Company	Variety	Seed Yield (kg ha <sup>-1</sup> )	Harvest Date	Plant Height (cm)
CHECK	MIMER	277	3-Aug-02	.
CEBEKO SEEDS	PREMIL	267	3-Aug-02	.
	Mean	272	.	.
	CV (%)	46.0		

**Meadow / Tall Fescue 2000 Seed Production Trial**  
**Arborg, Manitoba 2002 Results**

Company	Variety	Seed Yield (kg ha <sup>-1</sup> )	Plant Harvest Date	Plant Height (cm)
CHECK	MIMER	240	26-Jul-02	89
PARSONS SEEDS	ANTTI	131	26-Jul-02	87
CHECK	COURTENAY	335	26-Jul-02	106
NORTHSTAR SEED	F.T.K. 98	404	26-Jul-02	102
PARSONS SEEDS	KOKANEE	159	26-Jul-02	112
	RETU	274	26-Jul-02	103
Mean		308	.	91
CV (%)		42.9		6.6
LSD (0.05)		188		9

**Tall Fescue 2000 Seed Production Trial**  
**Portage la Prairie, Manitoba (A) 2002 Results**

Company	Variety	Seed Yield (kg ha <sup>-1</sup> )	Plant Harvest Date	Plant Height (cm)
CHECK	COURTENAY	504	17-Jul-02	.
NORTHSTAR SEED	F.T.K. 98	487	17-Jul-02	.
Mean		496	.	.
CV (%)		2.4		

**Tall Fescue 2000 Seed Production Trial**  
**Portage la Prairie, Manitoba 2002 Results**

Company	Variety	Seed Yield (kg ha <sup>-1</sup> )	Plant Harvest Date	Plant Height (cm)
CHECK	COURTENAY	396	17-Jul-02	.
NORTHSTAR SEED	F.T.K. 98	386	17-Jul-02	.
Mean		391	.	.
CV (%)		13.5		

**Tall Fescue 2001 Seed Production Trial**  
**Bow Island, Alberta 2002 Results**

Company	Variety	Seed Yield (kg ha <sup>-1</sup> )	Plant Harvest Date	Height (cm)
CHECK	COURTENAY	1548	22-Jul-02	108
SCOTT'S	COYOTE	1821	22-Jul-02	82
	WAF	1847	22-Jul-02	78
	Mean	1738	.	89
	CV (%)	8.1		5.2
	LSD (0.05)	243		8

**Meadow Fescue 2001 Seed Production Trial**  
**Beaverlodge, Alberta 2002 Results**

Company	Variety	Seed Yield (kg ha <sup>-1</sup> )	Plant Harvest Date	Height (cm)
CHECK	MIMER	462	1-Aug-02	.
CEBEKO SEEDS	FB 6	465	1-Aug-02	.
	Mean	464	.	.
	CV (%)	12.9		

**Meadow Fescue 2001 Seed Production Trial**  
**Fort St. John, British Columbia 2002 Results**

Company	Variety	Seed	Plant	
		Yield (kg ha <sup>-1</sup> )	Harvest Date	Height (cm)
CHECK	MIMER	1118	3-Aug-02	.
CEBECO SEEDS	FB 6	1180	3-Aug-02	.
	Mean	1149	.	.
	CV (%)	17.6		

**Tall Fescue 2001 Seed Production Trial**  
**Outlook, Saskatchewan 2002 Results**

Company	Variety	Seed	Plant	
		Yield (kg ha <sup>-1</sup> )	Harvest Date	Height (cm)
CHECK	COURTENAY	257	31-Jul-02	.
TURF-SEED	ENDEAVOR	463	31-Jul-02	.
	MAXIMIZE	147	31-Jul-02	.
	OLYMPIC GOLD	381	31-Jul-02	.
	SPRING GREEN	23	31-Jul-02	.
	TARHEEL	281	31-Jul-02	.
	WOLFPACK	285	31-Jul-02	.
	Mean	262	.	.
	CV (%)	48.8		
	LSD (0.05)	190		

**Summary of seed yield ( $\text{kg ha}^{-1}$ ) for Meadow Fescue in Western Canada 1997-2001**

Company	Variety	Seed yield (kg/ha) per Production year							
		Beaverlodge			Fort St. John			Arborg	
		1	2	3	1	2	3	1	2
Check	Mimer	644	437	223	1406	536	159	336	240
Cebeco Seeds	FB 6	465			1180				
	Premil	232	419	102	989	270	231		
Parsons Seeds	Antti	958	200	219				247	131
Mean		598	373	192	1229	403	195	292	186

## Summary of seed yield ( $\text{kg ha}^{-1}$ ) for Tall Fescues in Western Canada 1997-2001

Company	Variety	Type	Seed yield ( $\text{kg/ha}$ ) per 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	3	1	2	1	2	1	2					
Check	Courtenay	Forage	1334	1723	996	1815	1335	886	615	329	357	1437	511	713	868	661	168	458	335	460	450				
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																	
Cebeco Seeds	Cajun 2	Forage																							
	Martin 2	Forage	1136	2131	2167	1215	1869	1487																	
Lesco	LSTF CT 98-1				2216	2036	1053																		
Northstar Seed	F.T.K. 98	Forage																							
Parsons Seeds	Kokanee	Forage																							
	Retu	Forage																							
Scotts	ATF - 188				1564	1992	2209	2069	2068	1360															
	Cody																								
	Coyote																								
	RT-93																								
	WAF																								
	Wyatt																								
Turf-Seed	Endeavor	Turf	1477	1557																					
	Matador	Turf	1875	2004	2325	2415	2043	1613																	
	Maximize	Forage	828	1044																					
	Olympic Gold	Turf																							
	PST 5DU	Turf	2651	2990	1196	2926	1476	818	1247	198	110														
	PST 5E5	Turf	2665	2791	1213	3205	1655	966	933	175	76														
	PST 5LMD	Turf	1366	2412	800	2357	1425	716	669	170	28														
	Safari	Turf	2852	2367	1103	2688	1498	550	1227	236	115														
	Spring Green (f)																								
	Tarheel	Turf	1333	1386	2052	1976	1625	1287																	
	Wolfpack	Turf	1268																						
Mean			1584	1948	1747	2018	1578	1141	641	339	241	1338	511	713	764	733	197	584	334	536	443				

f - Festulolium

**Orchard Grass 2000 Seed Production Trial**  
**Bow Island, Alberta 2002 Results**

Company	Variety	Seed Yield (kg ha <sup>-1</sup> )	Harvest Date	Plant Height (cm)
CHECK	KAY	590	17-Jul-02	113
TURF-SEED	ELSIE	334	17-Jul-02	107
	MEGABITE	436	17-Jul-02	114
	Mean	453	.	111
	CV (%)	7.1		7
	LSD (0.05)	56		ns

**Orchard Grass 2000 Seed Production Trial**  
**Arborg, Manitoba 2002 Results**

Company	Variety	Seed Yield (kg ha <sup>-1</sup> )	Harvest Date	Plant Height (cm)
CHECK	KAY	115	23-Jul-02	97
NORTHSTAR SEED	A2000	169	23-Jul-02	100
	APLUS	135	23-Jul-02	97
PARSONS SEEDS	HAKA	239	23-Jul-02	99
	Mean	165	.	98
	CV (%)	24.3		3.6
	LSD (0.05)	64		6

**Orchard Grass 2000 Seed Production Trial  
Portage la Prairie (A), Manitoba 2002 Results**

Company	Variety	Seed	Plant	
		Yield (kg ha <sup>-1</sup> )	Harvest Date	Height (cm)
CHECK	KAY	200	17-Jul-02	.
NORTHSTAR SEED	A2000	233	17-Jul-02	.
	APLUS	176	17-Jul-02	.
	Mean	203	.	.
	CV (%)	11.6		
	LSD (0.05)	32		

**Orchard Grass 2000 Seed Production Trial;  
Portage la Prairie, Manitoba 2002 Results**

Company	Variety	Seed	Plant	
		Yield (kg ha <sup>-1</sup> )	Harvest Date	Height (cm)
CHECK	KAY	226	17-Jul-02	.
NORTHSTAR SEED	A2000	241	17-Jul-02	.
	APLUS	227	17-Jul-02	.
TURF-SEED	ELSIE	144	17-Jul-02	.
	MEGABITE	268	17-Jul-02	.
	Mean	221	.	.
	CV (%)	19.8		
	LSD (0.05)	56		

**Orchard Grass 2001 Seed Production Trial**  
**Bow Island, Alberta 2002 Results**

Company	Variety	Seed		Plant
		Yield (kg ha <sup>-1</sup> )	Harvest Date	Height (cm)
CHECK	KAY	281	17-Jul-02	106
TOMORROW'S SEED	OG2000ABC	344	22-Jul-02	94
	OG2000DEF	281	17-Jul-02	109
	Mean	302	.	103
	CV (%)	24.8		7.1
	LSD (0.05)	ns		ns

**Summary of seed yield ( $\text{kg ha}^{-1}$ ) for Orchard Grass in Western Canada 1997-2001**

Company	Variety	Seed yield (kg/ha) per Production year									
		Bow Island		Brooks		Beaverlodge		Arborg		Portage la Prairie	
		1	2	1	2	1	2	1	2	1	2
Check	Kay	262	590	1312	194	48	174	362	115	313	213
Cascade	Mammoth			822	25						
Dawson Seed	Arctic	760	942	725	859						
	Lidacta	433	763	167	457						
Northstar Seed	A2000							343	169	352	237
	APlus							343	135	294	202
Parsons Seeds	Haka					119	265	341	239		
Pickseed	OKAY					71	166				
Tomorrow's Seed	OG2000ABC	344									
	OG2000DEF	281									
Turf-Seed	Elsie	84	334							101	144
	Megabite	156	436							332	268
Mean		378	681	830	468	83	207	347	165	294	214

**Pennnial Ryegrass 2001 Seed Production Trial**  
**Bow Island, Alberta 2002 Results**

Company	Variety	Seed Yield (kg ha <sup>-1</sup> )	Harvest Date	Plant Height (cm)
CHECK	NORLEA	1871	6-Aug-02	82
TURF-SEED	PST-2A6B	1750	30-Jul-02	64
	QUICK TRANS	1348	25-Jul-02	60
	Mean	1657	.	69
	CV (%)	11		10.1
	LSD (0.05)	316		12

**Pennnial Ryegrass 2001 Seed Production Trial**  
**Brooks, Alberta 2002 Results**

Company	Variety	Seed Yield (kg ha <sup>-1</sup> )	Harvest Date	Plant Height (cm)
CHECK	NORLEA	914	8-Aug-02	69
TURF-SEED	PST-2A6B	850	8-Aug-03	64
	QUICK TRANS	642	8-Aug-02	62
	Mean	802	.	65
	CV (%)	10.9		9.5
	LSD (0.05)	152		ns

**Summary of seed yield (kg ha<sup>-1</sup>) for Perennial Ryegrass in Western Canada 1997-2001**

Company	Variety	Type	Seed yield (kg/ha)								
			Bow Island	Brooks	Beaverlodge	Fort	St. John	Melfort	Outlook	Arborg	Portage la Prairie
Check	Norlea	Forage	2026	1513	862		1500	338	527	417	275
Advanta	Dimension	Turf	700	1081							
Cascade	Catia		692	1202							
	Pearl	Turf	966	1159							
Cebeco Seeds	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							
	Total (I)									325	52
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	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							

**Summary of seed yield ( $\text{kg ha}^{-1}$ ) for Perennial Ryegrass in Western Canada 1997-2001 (con't)**

Company	Variety	Type	Seed yield ( $\text{kg/ha}$ )							
			Fort				Portage			
			Bow Island	Brooks	Beaverlodge	St. John	Melfort	Outlook	Arborg	la Prairie
Scotts	DS95-201									201
	Majesty		979	1441						
	MB45		883	1247						
	Rutgers 8000		2609							222
Turf- Seed	2HO		2435	1734	243					
	Brightstar	Turf	1785	1303	794					
	Brightstar II	Turf	1791							244
	Catalina		1828							
	Chaparal		1860	1450	142					
	Charger II	Turf	1677	1687	236					
	Citation 3	Turf	628	1236						
	PST 2M3		1286	1457	922					
	PST-2A6B		1866	850						290
	Quick Trans		1348	642						
	Roadrunner		2762	2228	279					
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			1481	1288	625	982	185	559	557	218

I - Italian ryegrass

**Timothy 1999 Seed Production Trial  
Beaverlodge, Alberta 2002 Results**

Company	Variety	Seed Yield (kg ha <sup>-1</sup> )	Harvest Date	Plant Height (cm)
CHECK	CLIMAX	257	19-Aug-02	46
CEBECO SEEDS	LATIMA	162	26-Aug-02	48
PICKSEED	FIDANZA	221	19-Aug-02	56
	RVP03	252	19-Aug-02	34
	Mean	226	.	44
	CV (%)	8.6		27.4
	LSD (0.05)	30		ns

**Timothy 2000 Seed Production Trial  
Beaverlodge, Alberta 2002 Results**

Company	Variety	Seed Yield (kg ha <sup>-1</sup> )	Harvest Date	Plant Height (cm)
CHECK	CLIMAX	130	26-Aug-02	75
CEBECO SEEDS	LATIMA	152	26-Aug-02	55
PARSONS SEEDS	BOR 94372	186	19-Aug-02	64
	BOR 94373	157	26-Aug-02	68
	BOR 94374	172	19-Aug-02	74
PICKSEED	FIDANZA	127	26-Aug-02	67
	RUP03	134	26-Aug-02	72
	Mean	149	.	68
	CV (%)	26.6		10.3
	LSD (0.05)	ns		10

**Timothy 2000 Seed Production Trial**  
**Arborg, Manitoba 2002 Results**

Company	Variety	Seed Yield (kg ha <sup>-1</sup> )	Harvest Date	Plant Height (cm)
CHECK	CLIMAX	29	6-Aug-02	79
CEBECO SEEDS	LATIMA	5	6-Aug-02	70
PARSONS SEEDS	BOR 72002	31	6-Aug-02	78
	BOR 94301	45	6-Aug-02	70
	BOR 94322	54	6-Aug-02	72
Mean		39	.	74
CV (%)		53.7		10.9
LSD (0.05)		32		12

**Timothy 2001 Seed Production Trial**  
**Bow Island, Alberta 2002 Results**

Company	Variety	Seed Yield (kg ha <sup>-1</sup> )	Harvest Date	Plant Height (cm)
CHECK	CLIMAX	346	6-Aug-02	87
DLF-TRIFOLIUM	BILBO	510	6-Aug-02	93
	DOLINA	435	6-Aug-02	91
	TUNDRA	363	6-Aug-02	87
Mean		414	.	90
CV (%)		13.3		9.4
LSD (0.05)		88		ns

**Timothy 2001 Seed Production Trial  
Beaverlodge, Alberta 2002 Results**

Company	Variety	Seed Yield (kg ha <sup>-1</sup> )	Harvest Date	Plant Height (cm)
CHECK	CLIMAX	106	19-Aug-02	75
CEBECO SEEDS	DVP 001657	113	19-Aug-02	68
DLF-TRIFOLIUM	BILBO	201	19-Aug-02	78
	DOLINA	194	19-Aug-02	73
	TUNDRA	250	19-Aug-02	70
	Mean	173	.	73
	CV (%)	35.7		7.5
	LSD (0.05)	95		ns

**Timothy 2001 Seed Production Trial  
Fort St. John, British Columbia 2002 Results**

Company	Variety	Seed Yield (kg ha <sup>-1</sup> )	Harvest Date	Plant Height (cm)
CHECK	CLIMAX	453	24-Aug-02	.
CEBECO SEEDS	DVP 001657	530	17-Aug-02	.
DLF-TRIFOLIUM	BILBO	743	20-Aug-02	.
	DOLINA	644	17-Aug-02	.
	TUNDRA	621	20-Aug-02	.
	Mean	598	.	.
	CV (%)	12.9		
	LSD (0.05)	119		

**Summary of seed yield ( $\text{kg ha}^{-1}$ ) for Timothy in Western Canada 1997-2001**

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Company	Variety	Bow Island	Seed yield (kg/ha) per Production year									
			Beaverlodge			Fort St. John			Melfort		Arborg	
			1	2	3	1	2	3	1	2	1	2
Check	Climax	346	129	154	175	578	575	1044	532	35	312	29
Cebeco Seeds	DVP 001657		113			530					293	5
	Latima		111	166	162							
DLF - Trifolium	Bilbo	510	201			743						
	Dolina	435	194			644						
	Tundra	363	250			621						
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								
	BOR 94373		241	157								
	BOR 94374		329	172								
Pickseed	Fidanza		168	183	221							
	Grasslands Charlton		40	47	153							
	RUP03		125	151	252							
Proven	UGG 1703		265	138	103	672	712	1047	529	43	376	39
Mean		414	168	149	163	643	576	1046	529	43	376	39

## Appendix 1

### Alberta Weather Data

		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Seasonal Mean or Total
<b>Beaverlodge CDA</b>	2002	-11.5	-5.8	-12.8	-1.6	6.8	14.9	15.8	14.2	8.4				
Mean Monthly Temp. (C)	2001	-1.6	-10.2	-3.2	3.5	9.1	12.5	15.0	15.1	10.7	3.3	-3.9	-12.2	
	2000	-12.8	-7.5	-2.3	3.0	6.9	12.9	15.1	13.4	9.3	3.7	-2.2	-12.4	
	1999	-13.9	-7.5	-2.6	4.1	7.5	12.0	13.7	15.3	9.6	4.6	-2.8	-3.6	3.0
	<b>30 yr</b>	<b>-13.6</b>	<b>-10.0</b>	<b>-4.0</b>	<b>3.8</b>	<b>9.8</b>	<b>13.4</b>	<b>15.3</b>	<b>14.3</b>	<b>9.9</b>	<b>4.5</b>	<b>-70</b>	<b>-11.9</b>	
Mean Monthly Precip. (mm)	2002	17.9	8.9	25.9	24.9	32.5	40.6	47.7	24.2	48.1				
	2001	8.2	11.2	11.6	12.4	18.2	34.8	108.2	40.0	12.8	17.8	26.4	11.3	
	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	
	1999	-	-	-	17.2	27.0	26.6	29.8	29.2	14.0	13.0	20.6	4.2	
	<b>30 yr</b>	<b>31.2</b>	<b>22.6</b>	<b>19.5</b>	<b>19.5</b>	<b>41.6</b>	<b>77.4</b>	<b>72.4</b>	<b>63.6</b>	<b>45.7</b>	<b>23.2</b>	<b>28.0</b>	<b>29.3</b>	
<b>Bow Island</b>	2002	-5.6	-2.9	-12.1	2.5	9.3	16.1	20.4	15.7	12.4				
Mean Monthly Temp. (C)	2001	-4.0	-12.3	1.7	6.1	13.7	15.7	20.1	21.1	15.5	6.1			
	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
	1999	-7.3	1.2	3.1	7.2	11.6	15.9	17.4	19.9	12.8	8.9	4.5	0.2	7.9
	<b>30 yr</b>	<b>-10.6</b>	<b>-6.3</b>	<b>-1.1</b>	<b>5.7</b>	<b>11.6</b>	<b>17.8</b>	<b>19.0</b>	<b>18.6</b>	<b>13.0</b>	<b>7.6</b>	<b>-1.0</b>	<b>-7.9</b>	<b>5.8</b>
Mean Monthly Precip. (mm)	2002	3.3	1.6		17.6	41.9	176.4	33.0	67.4	67.4				
	2001	4.1	0.9	6.1	13.2	11.8	80.8	15.0	1.2	1.2	12.6			
	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
	1999	10.1	0.5	0.3	37.9	43.9	102.8	37.7	41.8	9.0	26.9	15.2	8.2	334.3
	<b>30 yr</b>	<b>18.6</b>	<b>11.3</b>	<b>12.8</b>	<b>35.6</b>	<b>43.8</b>	<b>71.0</b>	<b>35.4</b>	<b>41.4</b>	<b>40.1</b>	<b>12.3</b>	<b>12.8</b>	<b>19.0</b>	<b>329.6</b>

		<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	Seasonal Mean or Total
<b>Brooks CDC South</b>	2002	-7.5	-3.3	-13.2	2.3	9.4	16.2	19.8	15.9	11.9				
	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
	1999	-11.5	-1.3	1.1	6.0	10.1	14.3	16.2	18.2	11.8	6.8	2.6	-1.4	6.1
	<b>30 yr</b>	<b>-12.5</b>	<b>-8.2</b>	<b>-2.0</b>	<b>5.7</b>	<b>11.5</b>	<b>15.9</b>	<b>18.5</b>	<b>17.8</b>	<b>12.0</b>	<b>6.4</b>	<b>-3.7</b>	<b>-10.2</b>	<b>4.1</b>
Mean Monthly Precip. (mm)	2002	5.1	0.0	11.1	5.6	9.2	111.6	23.2	53.4	54.2				
	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
	1999	17.1	1.5	4.2	38.1	39.8	115.0	110.2	47.2	2.4	5.2	7.1	7.4	394.0
	<b>30 yr</b>	<b>18.4</b>	<b>11.6</b>	<b>21.4</b>	<b>24.8</b>	<b>41.7</b>	<b>57.6</b>	<b>39.0</b>	<b>37.9</b>	<b>34.3</b>	<b>16.0</b>	<b>15.0</b>	<b>18.0</b>	<b>340.9</b>

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

## Appendix 2.

Saskatchewan Weather Data														Seasonal Mean or Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
<b>Melfort</b>	2002	-17.9	-13.1	-13.1	-2.9	7.5	19.8	20.7	15.3	11.5	-0.8			2.7
Mean Monthly Temp. (C)	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	4.4	3.2	-21.4	2.1
	1999	-17.9	-10.9	-4.1	5.7	10.2	14.0	15.6	16.9	9.9	3.3	-1.2	-8.0	2.8
	<b>30 yr.</b>	<b>-19.1</b>	<b>-15.5</b>	<b>-9.0</b>	<b>2.2</b>	<b>10.6</b>	<b>15.5</b>	<b>17.6</b>	<b>16.3</b>	<b>10.4</b>	<b>3.9</b>	<b>-7.0</b>	<b>-16.2</b>	<b>0.8</b>
Total Monthly Precip.(mm)	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	42.6	73.6	106.4	49.6	25.4	25.4	6.6	39.6	413.6
	1999	9.2	3.6	1.5	41.4	41.5	56.0	96.0	36.0	19.2	11.2	3.8	2.2	321.6
	<b>30 yr.</b>	<b>17.7</b>	<b>13.9</b>	<b>18.5</b>	<b>20.7</b>	<b>41.4</b>	<b>61.9</b>	<b>66.6</b>	<b>53.1</b>	<b>41.4</b>	<b>26.6</b>	<b>18.2</b>	<b>22.5</b>	<b>402.5</b>
<b>Outlook (PFRA)</b>	2002	-11.1	-5.5	-11.9	-0.8	9.8	17.3	20.4	17.2	12.2	1.0			5.1
Mean Monthly Temp. (C)	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	
	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
	1999	-14.5	-6.1	-2.1	6.8	10.6	15.1	16.9	18.3	11.1	2.1	2.7	-3.3	4.8
	<b>30 yr.</b>	<b>-15.5</b>	<b>-11.8</b>	<b>-5.3</b>	<b>4.6</b>	<b>11.8</b>	<b>16.6</b>	<b>19.0</b>	<b>18.0</b>	<b>12.0</b>	<b>5.9</b>	<b>-4.5</b>	<b>-12.7</b>	<b>3.2</b>
Total Monthly Precip. (mm)	2002	0.6	0.0	2.8	9.6	14.0	55.6	22.8	54.4	39.2				199.0
	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	15.4	50.8	82.2	49.5	34.6	6.1	56.2	31.4	409.1
	1999	3.6	4.0	4.4	12.0	61.4	63.2	91.2	37.8	11.6	2.4	3.8	10.2	305.6
	<b>30 yr.</b>	<b>14.8</b>	<b>13.0</b>	<b>17.9</b>	<b>17.9</b>	<b>39.3</b>	<b>60.4</b>	<b>54.5</b>	<b>34.2</b>	<b>28.6</b>	<b>13.6</b>	<b>12.8</b>	<b>16.4</b>	<b>323.4</b>

## Appendix 3

### Manitoba Weather Data

		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Seasonal Mean or Total
<b>Portage la Prairie</b>	2002	-12.7	-8.3	-11.0	1.9	8.8	17.7	20.9	17.6					
Mean Monthly Temp. (C)	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	
	1999													
	<b>30 yr</b>	<b>-16.3</b>	<b>-12.9</b>	<b>-5.6</b>	<b>4.3</b>	<b>12.4</b>	<b>17.1</b>	<b>20.0</b>	<b>18.5</b>	<b>12.4</b>	<b>5.5</b>	<b>-4.8</b>	<b>-13.7</b>	
Mean Monthly Precip. (mm)	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	
	1999													
	<b>30 yr</b>	<b>21.0</b>	<b>16.2</b>	<b>26.8</b>	<b>34.5</b>	<b>51.7</b>	<b>80.9</b>	<b>72.8</b>	<b>71.1</b>	<b>58.5</b>	<b>37.1</b>	<b>22.2</b>	<b>22.0</b>	

Western Grass Seed Testing (WGST) Program

**Application for Entry**

1. Company: \_\_\_\_\_ Contact person: \_\_\_\_\_

Mailing address  
\_\_\_\_\_  
\_\_\_\_\_

2. 2003 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)
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

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, 2003 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.