

Western Canadian Grass Seed Testing Program



2007 Report

British Columbia

Alberta

Manitoba

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Introduction

This report provides a summary of the grass seed trials conducted under the Western Grass Seed Testing Program during 2007. 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 and agencies for their seed entries and sponsorship of our 2007 research endeavours:

Agriculture & Agri-Food Canada
Barenbrug USA
Boreal Plant Breeding
Brett Young
DLF International/Trifolium
Eurograss
Rose AgriSeed
Scotts Company
Turf Care

The following groups are also thanked for their cooperation with the program and research site management:

Alberta Research Council
Agriculture & Agri-Food Canada
Manitoba Forage Seed Association
Peace Region Forage Seed Association

WGST Co-operators and Technical Support

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Date Collection Procedures

Seed Yield	reported on a clean seed basis in kg per ha (kg per ha x 0.9 = lbs per ac)
Harvest Date	date the variety was swathed or cut
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 3937 = inches)

Trial Procedures

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

* Please Note * Statistical Analysis Procedures *

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 3 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 at the 5% level of significance. This means there is a 95% probability that you can reject the hypothesis that the treatments are the same; in other words 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.

Protocol for Western Grass Seed Testing (WGST) Program

Revised February 2007

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. Peace Region Forage Seed Association will coordinate and 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 of 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. Vegreville, Alberta
4. 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 brome grass - Fleet - 3 yrs	Annual ryegrass - Aubade - 1 yr
Smooth brome grass - 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:

Sandra Burton, Coordinator
Peace Region Forage Seed Association
Box 6135
Fort St. John, British Columbia
Canada V1J 4H6
Telephone: 1 877 630 2198 or (250 789 6885
Fax: (250) 789-6884
Email: coordinator@peaceforageseed.ca

**Kentucky Bluegrass 2004 Seed Production
Bow Island, Alberta 2007 Results**

Company	Variety	Seed Yield (kg/ha)	Harvest Date	Plant Height (cm)
Boreal Plant Breeding	Halti (ab)	.	.	.
Brett-Young	A96-425	456	23-Jul-07	53
	A96-43	333	9-Jul-07	61
	A98-146	481	23-Jul-07	56
	A98-475	427	23-Jul-07	51
	A99-2573	386	17-Jul-07	61
DLF-International	A98-139	662	9-Jul-07	78
	DLF 769037	521	17-Jul-07	54
	HB95 Hybrid	548	17-Jul-07	58
	HB96 Hybrid	459	9-Jul-07	58
	Platini	498	9-Jul-07	64
	SCR-320	546	23-Jul-07	53
	Slezanka	389	9-Jul-07	68
Scotts	HB 329	249	23-Jul-07	53
Check	Abbey	920	9-Jul-07	53
	Mean	491		58
	CV (%)	18.8		9.1
	LSD (0.05)	132		7.6

ab - Alpine Bluegrass not harvested 2007 due to poor stand vigor and heading

**Kentucky Bluegrass - DSV 2004 Seed Production
Bow Island, Alberta 2007 Results**

Company	Variety	Seed Yield (kg/ha)	Harvest Date	Plant Height (cm)
DSV	N 522	462	23-Jul-07	54
	POPF 00577	328	9-Jul-07	68
	POPF 00578	201	9-Jul-07	59
	POPF 00580	359	9-Jul-07	69
	POPR 00582	444	9-Jul-07	63
	POPR 00589	447	17-Jul-07	61
	POPR 00593	537	17-Jul-07	58
	POPR 97564	571	23-Jul-07	59
	POPR 99575	385	17-Jul-07	49
	ZPP 81-002	335	9-Jul-07	55
	ZPP 94-320	429	23-Jul-07	51
	ZPP 94-343	324	23-Jul-07	35
	ZPP 95-776	298	17-Jul-07	51
Check	Abbey	807	9-Jul-07	54
	Mean	423		56
	CV (%)	24.1		8.6
	LSD (0.05)	146		7.0

**Kentucky Bluegrass 2004 Seed Production
Brooks, Alberta 2007 Results**

Company	Variety	Seed Yield (kg/ha)	Harvest Date	Plant Height (cm)
Boreal Plant Breeding	Halti (ab)	.	.	.
DSV	POPR 00582	479	12-Jul-07	61
	POPR 00589	559	17-Jul-07	64
	POPR 00593	751	17-Jul-07	68
	POPR 97564	623	20-Jul-07	64
	ZPP 81-002	390	12-Jul-07	61
	ZPP 94-320	403	20-Jul-07	55
	ZPP 94-343	412	12-Jul-07	64
	ZPP 95-776	432	17-Jul-07	60
Check	Abbey	887	12-Jul-07	65
	Mean	549		62
	CV (%)	19.5		7.6
	LSD (0.05)	156		ns

ab - Alpine Bluegrass not harvested 2007 due to poor stand vigor and heading

**Kentucky Bluegrass 2005 Seed Production
Bow Island, Alberta 2007 Results**

Company	Variety	Seed Yield (kg/ha)	Harvest Date	Plant Height (cm)
DSV	POPR 00587	369	12-Jul-07	59
	POPR 02592	333	23-Jul-07	63
	POPR 02593	201	12-Jul-07	60
	POPR 97564	545	17-Jul-07	65
	ZPP 83-077	327	12-Jul-07	64
Rose Agri-Seed	PST-H97-762	129	12-Jul-07	81
	PST-Oraf (bg)	283	23-Jul-07	98
Check	Abbey	617	12-Jul-07	58
	Mean	350		68
	CV (%)	24.6		5.6
	LSD (0.05)	151		5.6

bg - Bentgrass

**Kentucky Bluegrass 2005 Seed Production
Brooks, Alberta 2007 Results**

Company	Variety	Seed Yield (kg/ha)	Harvest Date	Plant Height (cm)
DSV	POPR 00587	567	20-Jul-07	68
	POPR 02592	580	17-Jul-07	68
	POPR 02593	398	17-Jul-07	70
	POPR 97564	758	20-Jul-07	66
	ZPP 83-077	496	20-Jul-07	68
Check	Abbey	806	17-Jul-07	63
	Mean	601		67
	CV (%)	17		7.0
	LSD (0.05)	154		ns

Summary of seed yield (kg ha⁻¹) for Kentucky Bluegrass in WGST 2005-2007

Year of Seeding	Company	Variety	Seed yield / production year						
			Bow Island			Brooks			
			1	2	3	1	2	3	
2004	Boreal Plant Breeding	Halti (alpine)	421	212	.	1016	301	.	
	Brett-Young	A96-425	503	765	456				
		A96-43	339	470	333				
		A98-146	567	621	481				
		A98-475	302	348	427				
		A99-2573	450	553	389				
	DLF-International	A98-139	375	665	662				
		DLF 769037	511	525	521				
		HB95 Hybrid	319	546	548				
		HB96 Hybrid	282	479	459				
		Platini	309	464	498				
		SCR-320	506	526	546				
		Slezanka	429	567	389				
		DSV	N 522	432	383	462			
			POPF 00577	453	176	328			
			POPF 00578	253	298	201			
	POPF 00580		452	247	359				
	POPR 00582		554	516	444	711	525	479	
	POPR 00589		429	359	447	823	708	559	
	POPR 00593		448	489	537	807	776	751	
	POPR 97564		443	523	571	1007	770	623	
	POPR 99575		501	363	385				
	ZPP 81-002		205	244	335	672	430	390	
	Scotts	ZPP 94-320	269	422	429	590	494	403	
		ZPP 94-343	404	554	324	1238	714	412	
		ZPP 95-776	267	329	298	562	574	432	
		HB 329	509	381	249				
HB 342		259	.	.					
Check		Abbey	717	1034	920	1534	1206	887	
2005		DSV	POPR 00587	497	369		788	567	
			POPR 02592	529	333		876	580	
			POPR 02593	498	201		766	398	
	POPR 97564		465	545		800	758		
	ZPP 83-077		456	327		764	496		
	Rose Agri-Seed	PST-H97-762	115	129					
		(creeping bentgrass) PST-ORAF	409	283					
	Check	Abbey	616	617		1262	806		

**Smooth Bromegrass Seed Production
Brooks, Alberta 2007 Results**

Company	Variety	Seed Yield (kg/ha)	Harvest Date	Plant Height (cm)
Barenbrug USA	Bareno	.	.	.
	Doina	243	20-Jul-07	131
	Olga	307	20-Jul-07	130
Check	Carlton	298	20-Jul-07	129
	Mean	283		130
	CV (%)	14.1		2.9
	LSD (0.05)	ns		ns

Bareno - winter damage 2005, no data taken 2006 & 2007

Summary of seed yield (kg ha⁻¹) for Smooth Bromegrass in WGST 2005-2007

Year of Seeding	Company	Variety	Seed yield / production year		
			Brooks		
			1	2	3
2004	Barenbrug USA	Bareno	369	.	.
		Doina	923	550	243
		Olga	928	577	307
	Check	Carlton	960	373	298

Note : Brooks 1st production year of 2004 seeding, Bareno 50-75% winter kill - testing discontinued.

**Creeping Red Fescue 2005 Seed Production
Beaverlodge, Alberta 2007 Results**

Company	Variety	Seed Yield (kg ha ⁻¹)	Harvest Date	Plant Height (cm)
AAFC Beaverlodge	BRFB1	380	23-Jul-07	.
	BRFB2	268	23-Jul-07	.
DSV	FRRR 00191	89	23-Jul-07	.
	FRRR 02202	.	.	.
	ZFRR 93-111	50	23-Jul-07	.
	ZFRR 93-112Q	114	23-Jul-07	.
Check	Boreal	215	23-Jul-07	.
	Mean	189		
	CV (%)	58.7		
	LSD (0.05)	173		

**Creeping Red Fescue 2005 Seed Production
Fort St. John, British Columbia 2007 Results**

Company	Variety	Seed Yield (kg ha ⁻¹)	Harvest Date	Plant Height (cm)
AAFC Beaverlodge	BRFB1	676	23-Jul-07	.
	BRFB2	687	23-Jul-07	.
Check	Boreal	703	23-Jul-07	.
	Mean	690		
	CV (%)	11.6		
	LSD (0.05)	ns		

**Creeping Red Fescue 2006 Seed Production
Beaverlodge, Alberta 2007 Results**

Company	Variety	Seed Yield (kg ha ⁻¹)	Harvest Date	Plant Height (cm)
Barenbrug	01-FR-1	856	23-Jul-07	.
	Barena III	439	23-Jul-07	.
	Barthema	451	23-Jul-07	.
	Barustic	742	23-Jul-07	.
Turf Care	TL10709	945	23-Jul-07	.
Check	Boreal	978	23-Jul-07	.
	Mean	735		
	CV (%)	13.4		
	LSD (0.05)	148		

Summary of seed yield (kg ha⁻¹) for Fine Fescues in Western Canada 2006-2007

Year of seeding	Species	Company	Variety	Seed yield / production year			
				Beaverlodge		Fort St. John	
				1	2	1	2
2005	Creeping red	AAFC Beaverlodge	BRFB1	957	380	813	676
			BRFB2	756	268	832	687
		DSV	FRRR 00191	560	89		
			FRRR 02202	650	.		
			ZFRR 93-111	619	50		
			ZRRR 93-112Q	632	114		
		Check	Boreal	822	215	812	703
2006	Creeping red	Barenbrug USA	01-FR-1	856			
			Barena III	439			
			Barthema	451			
			Barustic	742			
		Turf Care Supply	TL10709	945			
		Check	Boreal	978			

**Tall Fescue 2004 Seed Production
Bow Island, Alberta 2007 Results**

Company	Variety	Seed Yield (kg/ha)	Harvest Date	Plant Height (cm)
Scotts	8015	1773	17-Jul-07	98
	K01-E03	1461	17-Jul-07	94
Check	Courtenay	1798	12-Jul-07	126
	Mean	1677		106
	CV (%)	8.9		5.7
	LSD (0.05)	260		10

**Tall Fescue 2005 Seed Production
Bow Island, Alberta 2007 Results**

Company	Variety	Seed Yield (kg/ha)	Harvest Date	Plant Height (cm)
Rose Agri-Seed	PST-5NF	1658	12-Jul-07	110
Check	Courtenay	1614	12-Jul-07	124
	Mean	1636		117
	CV (%)	7.0		10.5

**Tall Fescue 2005 Seed Production
Brooks, Alberta 2007 Results**

Company	Variety	Seed Yield (kg/ha)	Harvest Date	Plant Height (cm)
Rose Agri-Seed	PST-5NF	1230	12-Jul-07	111
Check	Courtenay	1302	12-Jul-07	119
	Mean	1266		115
	CV (%)	6.9		3.9

Summary of seed yield (kg ha⁻¹) for Tall Fescues in Western Canada 2005-2007

Year of seeding	Company	Variety	Type	Seed yield / production year					
				Bow Island			Brooks		
				1	2	3	1	2	3
2004	Scotts	8015	Turf	3235	1641	1773			
		K01-E03	Turf	3348	1286	1461			
	Check	Courtenay	Forage	2637	1745	1798			
2005	Rose Agri-Seed	PST-5NF	Forage	1342	1658		1807	1230	
	Check	Courtenay	Forage	1846	1614		1976	1302	

f - Festulolium

**Timothy 2003 Seed Production Trial
Arborg, Manitoba 2006 Results**

Company	Variety	Seed Yield (kg ha ⁻¹)	Harvest Date	Plant Height (cm)
DLF-International	DP 70-9707	140	7-Aug-07	.
	DP 70-9802	264	7-Aug-07	.
	Winnetou	280	7-Aug-07	.
Check	Climax	148	7-Aug-07	.
	Mean	212		
	CV (%)	37.9		
	LSD (0.05)	137		

**Timothy 2004 Seed Production
Beaverlodge, Alberta 2007 Results**

Company	Variety	Seed Yield (kg ha ⁻¹)	Harvest Date	Plant Height (cm)
DLF-International	DP 70-4731	681	15-Aug-07	.
	DP 70-4752	505	15-Aug-07	.
	Niklas	586	15-Aug-07	.
	Promesse	718	15-Aug-07	.
	Tundra	766	15-Aug-07	.
	Viking	.	15-Aug-07	.
	Winnetou	835	15-Aug-07	.
Check	Climax	547	15-Aug-07	.
	Mean	662		
	CV (%)	13.5		
	LSD (0.05)	132		

Note: Viking poor germination, therefore no stand establishment

**Timothy 2004 Seed Production Trial
Arborg, Manitoba 2007 Results**

Company	Variety	Seed Yield (kg ha ⁻¹)	Harvest Date	Plant Height (cm)
Barenbrug USA	Barmidi	1891	9-Aug-07	.
	PHL1R99	235	9-Aug-07	.
Check	Climax	273	9-Aug-07	.
	Mean	229		
	CV (%)	29.7		
	LSD (0.05)	ns		

**Timothy 2005 Seed Production
Beaverlodge, Alberta 2007 Results**

Company	Variety	Seed Yield (kg ha ⁻¹)	Harvest Date	Plant Height (cm)
AAFC Beaverlodge	BRFLAL1	604	15-Aug-07	.
Check	Climax	538	15-Aug-07	.
	Mean	571		
	CV (%)	29.8		

**Timothy 2005 Seed Production
Fort St. John, British Columbia 2007 Results**

Company	Variety	Seed Yield (kg ha ⁻¹)	Harvest Date	Plant Height (cm)
AAFC Beaverlodge	BRFLAL1	807	14-Aug-07	.
Check	Climax	517	14-Aug-07	.
	Mean	662		
	CV (%)	9.7		

**Timothy 2005 Seed Production
Arborg, Manitoba 2007 Results**

Company	Variety	Seed Yield (kg ha ⁻¹)	Harvest Date	Plant Height (cm)
DLF-International	DP 70-4731	247	9-Aug-07	.
	DP 70-4752	289	9-Aug-07	.
	Niklas	102	9-Aug-07	.
	Promesse	259	9-Aug-07	.
	Tundra	242	9-Aug-07	.
	Viking	.	.	.
	Winnetou	342	9-Aug-07	.
Check	Climax	416	9-Aug-07	.
	Mean	271		
	CV (%)	45.4		
	LSD (0.05)	ns		

Note: Viking poor germination, therefore no stand establishment

**Timothy 2006 Seed Production
Beaverlodge, Alberta 2007 Results**

Company	Variety	Seed Yield (kg ha ⁻¹)	Harvest Date	Plant Height (cm)
Brett Young	19004	221	14-Aug-07	.
	98665	452	14-Aug-07	.
	98667	387	14-Aug-07	.
	99966	425	14-Aug-07	.
	99984	242	14-Aug-07	.
	CT 70-9704	371	14-Aug-07	.
	FLP07	281	14-Aug-07	.
	INPH 9803	392	14-Aug-07	.
Check	Climax	404	14-Aug-07	.
	Mean	353		
	CV (%)	23.7		
	LSD (0.05)	122		

**Timothy 2006 Seed Production
Fort St. John, British Columbia 2007 Results**

Company	Variety	Seed Yield (kg ha ⁻¹)	Harvest Date	Plant Height (cm)
Brett Young	19004			
	98665			
	98667			
	99966			
	99984			
	CT 70-9704			
	FLP07			
	INPH 9803			
Check	Climax			
	Mean			
	CV (%)			
	LSD (0.05)			

poor establishment in 2006
due to dry conditions;
trial reseeded in 2007
with good establishment

Summary of seed yield (kg ha⁻¹) for Timothy in Western Canada 2005-2007

Year of Seeding	Company	Variety	Seed yield / production year								
			Beaverlodge			Fort St. John			Arborg		
			1	2	3	1	2	3	1	2	3
2003	DLF-International	DP 70-9707							156	27	210
		DP 70-9802							388	132	258
		Winnetou							421	143	389
	Check	Climax							286	174	239
2004	Barenbrug USA	Barmidi							78	269	181
		PHL 1R99							182	475	235
	DLF-International	DP 70-4731	650	337	681						
		DP 70-4752	266	284	505						
		Niklas	280	57	586						
		Promesse	423	223	718						
		Tundra	653	159	766						
		Viking	*	*	*						
	Winnetou	634	267	835							
	Check	Climax	467	187	547				107	493	273
2005	AAFC Beaverlodge	BRFLAL1	527	604		616	807				
	DLF-International	DP 70-4731							369	247	
		DP 70-4752							383	289	
		Niklas							100	102	
		Promesse							351	259	
		Tundra							289	242	
		Viking							*	*	
	Winnetou							392	342		
	Check	Climax	600	538		419	517		289	416	
2006	Brett Young	19004	221								
		98665	452								
		98667	387								
		99966	425								
		99984	242								
		CT 70-9704	371								
		FLP07	281								
		INPH 9803	392								
	Check	Climax	404								

Note: * Viking poor germination, therefore no stand establishment *

Western Grass Seed Testing 2007 Seeding Summary

Species	Company	Variety	Type	Fort St. John	Vegreville	Beaverlodge	Arborg
Kentucky Bluegrass							
	Barenbrug USA	BARPP 0468	turf		2007		
		BARVV 8536	turf		2007		
	Check	Abbey	turf		2007		
Perennial Ryegrass							
	Barenbrug USA	Remington	forage				2007
	Check	Norlea	forage				2007
Orchardgrass							
	Barenbrug USA	Baridana	forage			2007	2007
		Intensiv	forage			2007	2007
	Check	Kay	forage			2007	2007
Fine Fescue							
	Brett Young	IS-FRR 29	turf			2007	
		IS-FRR 23	turf			2007	
	Barenbrug USA	Hardtop	turf	2007		2007	
	Check	Boreal	turf	2007		2007	
Tall Fescue							
	Barenbrug USA	BARFA 1005	turf			2007	2007
		BAR3FA BTR9	turf			2007	2007
		Bariane	forage			2007	2007
		Barcarella	forage			2007	2007
	Check	Courtney	forage			2007	2007
Timothy							
	Barenbrug USA	BOR 9911	forage	2007			2007
		BOR 2005	forage	2007*			2007
	Brett Young	190004	forage	2007*			
		98665	forage	2007*			
		98667	forage	2007*			
		99966	forage	2007*			
		99984	forage	2007*			
		CT 70-9704	forage	2007*			
		FLP 07	forage	2007*			
		INDH 9803	forage	2007*			
	Check	Climax	forage	2007*			2007

Notes:

*FSJ: reseeding 2006 entries that did not establish due to dry conditions. Good establishment in 2007.

Brooks & Bow Island: no entries seeded due to program restructuring.

Arborg, Beaverlodge & Vegreville: reasonably good establishment.