

# Western Canadian Grass Seed Testing Program



## 2009 Report

Coordinated by:



**Peace Region Forage Seed Association**  
Sandra Burton

With Cooperating Research Sites in:  
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 2009. 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 2009 research endeavours:

Barenbrug USA  
Brett Young  
Pickseed Canada  
Snow Brand Seeds

The following groups and agencies are also thanked for cooperating with the program and managing the research sites:

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

We thank the following for their partnership and help with custom seeding, spraying and mowing at the Fort St. John, BC site:

Peace River Agriculture Development Fund (PRAD)  
BC Grain Producers Association

We especially appreciate the collaboration to hire/ share summer students and jointly share warehouse space for the last two seasons with:

Peace River Forage Association of BC

## WGST Co-operating Research Sites and Contacts

Fort St. John, BC	Sandra Burton, PRFSA Coordinator Peace Region Forage Seed Association Box 6135, Fort St. John, BC V1J 4H6 Phone 877 630 2198 or (250) 789 6885 Fax (250) 789 6884 Email : <a href="mailto:coordinator@peaceforageseed.ca">coordinator@peaceforageseed.ca</a>	Courtney Thompson, Summer Student c/o Peace Region Forage Seed Association Box 6135, Fort St. John, BC V1J 4H6 Phone 877 630 2198 or (250) 789 6885 Fax (250) 789 6884 Email : <a href="mailto:coordinator@peaceforageseed.ca">coordinator@peaceforageseed.ca</a>
Beaverlodge, AB	Sandra Burton ( <i>interim contact</i> ) Peace Region Forage Seed Association Box 6135, Fort St. John, BC V1J 4H6 Phone 877 630 2198 or (250) 789 6885 Fax (250) 789 6884 Email : <a href="mailto:coordinator@peaceforageseed.ca">coordinator@peaceforageseed.ca</a>	Owen Lee, Forage Technician Agriculture & AgriFood Canada Box 29, Beaverlodge, AB. T0M 0C0 Phone (780) 354-5140 Fax (780) 354-8171 Email : <a href="mailto:leo@agr.gc.ca">leo@agr.gc.ca</a>
Vegreville, AB	Jay Woosaree, Researcher Alberta Research Council Hwy. 16A, 75 Street Vegreville, Alberta Phone: (780) 632-8209 Fax: (780) 632-8612 E-mail: <a href="mailto:jay@arc.ab.ca">jay@arc.ab.ca</a>	Marshall McKenzie, Technician Alberta Research Council Hwy. 16A, 75 Street Vegreville, Alberta Phone: (780) 632-8254 Fax: (780) 632-8612 E-mail: <a href="mailto:Marshall.McKenzie@arc.ab.ca">Marshall.McKenzie@arc.ab.ca</a>
Arborg, MB	Heather McBey, MFSA Administrator Manitoba Forage Seed Association Box 2000 Arborg, MB. R0C 0A0 Phone (204) 376-3309 Fax (204) 376-3311 Email: <a href="mailto:hmcbey@forageseed.mb.ca">hmcbey@forageseed.mb.ca</a>	Laura Grzenda, MFSA Researcher Manitoba Forage Seed Association Box 2000 Arborg, MB. R0C 0A0 Phone (204) 376-3314 Fax (204) 376-3311 Email: <a href="mailto:lwgrzenda@forageseed.net">lwgrzenda@forageseed.net</a>

### Date Collection Procedures

Seed Yield	reported on a clean seed basis in kg per ha (yield in lb / ac = kg per ha x 1.1)
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 (height in inches = cm / 2.54)

### 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 2009

## 1. Research Sponsorship

The research sponsorship of **\$240 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. The Peace Region Forage Seed Association will administer funds for the Western Grass Seed Testing Program.

The Peace Region Forage Seed Association and Manitoba Forage Seed Association will honour the commitment made to companies for entries prior to 2009, and will continue to collect data on those entries for the originally agreed upon \$120 CAN/entry/year/location.

## 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 brome grass, wheatgrasses

Submitted seed shall be supplied by **March 31** 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 in 2009

1. Fort St. John, British Columbia
2. Beaverlodge, Alberta
3. 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. Results will be posted by the end of the fiscal year on the research page of the website [www.peaceforageseed.ca](http://www.peaceforageseed.ca)

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  
[coordinator@peaceforageseed.ca](mailto:coordinator@peaceforageseed.ca)

# Western Grass Seed Testing (WGST) Program

## 2009 Application for Entry

1. Company: \_\_\_\_\_ Telephone: \_\_\_\_\_  
 Contact person: \_\_\_\_\_ Fax: \_\_\_\_\_  
 Mailing address: \_\_\_\_\_ Email: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

2. 2009 entries: Please fill out this table completely. (if you wish to add more entries, please attach another sheet)

Species	Type	forage	or	turf	Variety name/code	%	Germ	Relative	maturity
								early,	
								medium,	
								late	

3. Please indicate at which locations you wish your entries tested (refer to map). The applicant will be invoiced once test sites for the current test year are finalized.

Fort St. John, BC \_\_\_\_\_  
 Beaverlodge, AB \_\_\_\_\_  
 Arborg, MB \_\_\_\_\_

**Send no later than March 31, 2009 to:**  
 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  
[coordinator@peaceforageseed.ca](mailto:coordinator@peaceforageseed.ca)



## Fine Fescue Trials

### Fine Fescue Trials Established in 2007

#### Fort St. John, British Columbia: 2009 Seed Production Results

Company	Variety	Seed Yield (kg /ha)	Harvest Date	Plant Height (cm)
Barenbrug USA	Hardtop	44	22-Jul	18
Check	Boreal	45	29-Jul	18
	Mean	44		18
	CV (%)	30		7.3
	LSD (0.05)	NS		NS

NS = not significantly different

\*\*\* extremely dry conditions in summer/fall 2008 & in spring/ summer 2009

### Fine Fescue Trials Established in 2007

#### Beaverlodge, Alberta: 2009 Seed Production Results

Company	Variety	Seed Yield (kg /ha)	Harvest Date	Plant Height (cm)
Barenbrug USA	Hardtop	489	22-Jul	65
Brett Young	IS FRR 23	505	28-Jul	57
	IS FRR 29	530	28-Jul	57
Check	Boreal	630	28-Jul	74
	Mean	539		63
	CV (%)	20		5.2
	LSD (0.05)	NS		5.2

\*\* very dry conditions in summer 2008 & in spring 2009

### Fine Fescue Trials Established in 2008

#### Fort St. John, BC: 2009 Seed Production Results

Company	Variety	Yield (kg /ha)	Harvest Date	Height (cm)
Brett Young	IS FRR 23	590	30-Jul	57
	IS FRR 29	573	30-Jul	57
Check	Boreal	558	30-Jul	74
	Mean	555		63
	CV (%)	10.2		7.6
	LSD (0.05)	NS		8.7

\*\*\* extremely dry conditions in summer/fall 2008 & in spring/ summer 2009

**Fine Fescue Trials Established in 2008**  
**Beaverlodge, Alberta: 2009 Seed Production Results**

Company	Variety	Seed Yield (kg /ha)	Harvest Date	Plant Height (cm)
Barenbrug USA	Hardtop	895	28-Jul	66
Brett Young	IS FRR 23	520	28-Jul	60
	IS FRR 29	894	28-Jul	67
Check	Boreal	280	28-Jul	52
	Mean	647		61
	CV (%)	27		10
	LSD (0.05)	282		NS

*\*\* very dry conditions in summer 2008 & in spring 2009*

**Summary of Seed Yield (kg per ha) for Fine Fescues  
in Western Canada WGST 2007- 2009**

Year of seeding	Species	Company	Variety	Seed yield / production year			
				Fort St. John		Beaverlodge	
				1	2	1	2
2006	Creeping red	Barenbrug USA	01-FR-1			856	733
			Barena III			439	459
			Barthema			451	325
			Barustic			742	527
		Turf Care	TL10709			945	502
		Check	Boreal			978	778
2007	Hard fescue	Barenbrug USA	Hardtop	470	44	349	489
	Creeping red	Brett Young	IS FRR 23			769	505
			IS FRR 29			798	530
	Check	Boreal	762	45	931	630	
2008	Hard fescue	Barenbrug USA	Hardtop			895	
	Creeping red	Brett Young	IS FRR 23	590		520	
			IS FRR 29	573		894	
	Check	Boreal	558		280		

## Tall Fescue Trials

### Tall Fescue Trials Established in 2007 Beaverlodge, Alberta: 2009 Seed Production Results

Company	Variety	Seed Yield (kg/ha)	Harvest Date	Plant Height (cm)
Barenbrug USA	BARFA 1005	454	11-Aug	51
	BAR 3FABRT9	420	11-Aug	94
	Bariane	504	11-Aug	92
	Barcarella	381	4-Aug	90
Check	Courtenay	814	4-Aug	99
	Mean	515		85
	CV (%)	20.1		12.3
	LSD (0.05)	159		16

*\*\* very dry conditions in summer 2008 & in spring 2009*

### Tall Fescue Trials Established in 2008 Fort St. John, BC 2009: Seed Production Results

Company	Variety	Seed Yield (kg/ha)	Harvest Date	Plant Height (cm)
Barenbrug USA	BARFA 1005	555	11-Aug	45
	BAR 3FABRT9	496	11-Aug	77
	Bariane	651	11-Aug	86
	Barcarella	383	11-Aug	76
Check	Courtenay	387	11-Aug	90
	Mean	494		75
	CV (%)	21.2		4.5
	LSD (0.05)	162		5.3

*\*\*\*extremely dry conditions in summer/fall 2008 & in spring/ summer 2009*

### Tall Fescue Trials Reseeded in 2008 Arborg, MB: 2009 Seed Production Results

Company	Variety	Seed Yield (kg/ha)	Harvest Date	Plant Height (cm)
Barenbrug USA	BARFA 1005	2072	13-Aug	112
	BAR 3FABRT9	1314	13-Aug	112
	Bariane	1102	13-Aug	122
	Barcarella	1395	13-Aug	118
Check	Courtenay	2430	13-Aug	126
	Mean	1663		118
	CV (%)	26.6		6.6
	LSD (0.05)	681		12

*\*very wet conditions in fall 2008 & spring/ summer 2009*



**Summary of Seed Yield (kg per ha) for Tall Fescues  
in Western Canada WGST 2007-2009**

Year of seeding	Company	Variety	Type	Seed yield / production year					
				Fort St. John			Arborg		
				1	2	3	1	2	3
2007	Barenbrug USA	BARFA 1005	Turf				1305	454	
		BAR 3FABRT9	Forage				780	420	
		Bariane	Forage				713	503	
		Barcarella	Forage				903	381	
	Check	Courtenay	Forage				982	814	
2008	Barenbrug USA	BARFA 1005	Turf	555			2072		
		BAR 3FABRT9	Forage	496			1314		
		Bariane	Forage	651			1102		
		Barcarella	Forage	383			1395		
	Check	Courtenay	Forage	387			2430		

## Orchard Grass Trials

### Orchard Grass Trials Established in 2007 Beaverlodge, Alberta: 2009 Seed Production Results

Company	Variety	Seed Yield (kg/ha)	Harvest Date	Plant Height (cm)
Barenbrug USA	Baridana	54	11-Jul	82
	Intensiv	58	11-Jul	93
Check	Kay	167	11-Jul	94
	Mean	93		105
	CV (%)	68.0		10.1
	LSD (0.05)	NS		NS

*NS = not significantly different*

*\*\* very dry conditions in summer 2008 & in spring 2009*

### Orchard Grass Trials Established in 2007 Arborg, Manitoba: 2009 Seed Production Results

Company	Variety	Seed Yield (kg/ha)	Harvest Date	Plant Height (cm)
Barenbrug USA	Baridana	132	10-Jul	115
	Intensiv	248	10-Jul	122
Check	Kay	271	10-Jul	128
	Mean	217		122
	CV (%)	16.5		2.9
	LSD (0.05)	81		8

*\*very wet conditions in fall 2008 & spring/ summer 2009*

### Orchard Grass Trials Established in 2008 Fort St. John, British Columbia: 2009 Seed Production Results

Company	Variety	Seed Yield (kg/ha)	Harvest Date	Plant Height (cm)
Barenbrug USA	Baridana	107	5-Aug	89
	Intensiv	102	5-Aug	89
Check	Kay	112	5-Aug	96
	Mean	107		91
	CV (%)	33.5		3.6
	LSD (0.05)	NS		6

*\*\*\* extremely dry conditions in summer/fall 2008 & in spring/ summer 2009*

**Summary of Seed Yield (kg per ha) for Orchard Grass  
in Western Canada WGST 2007- 2009**

Year of seeding	Company	Variety	Type	Seed yield / production year					
				Beaverlodge			Arborg		
				1	2	3	1	2	3
2007	Barenbrug USA	Baridana	Forage	346	54		320	132	
		Intensiv	Forage	351	58		373	248	
	Check	Kay	Forage	346	167		368	271	
Year of seeding	Company	Variety	Type	Fort St. John					
				1	2	3			
2008	Barenbrug USA	Baridana	Forage	107					
		Intensiv	Forage	102					
	Check	Kay	Forage	112					

## Timothy Trials

### Timothy Trials Established in 2006 Beaverlodge, Alberta 2009 Seed Production Results

Company	Variety	Seed Yield (kg / ha)	Harvest Date	Plant Height (cm)
Brett Young	BY 19004	160	24-Aug	83
	BY 98665	128	24-Aug	78
	BY 98667	146	24-Aug	78
	BY 99966	217	24-Aug	83
	BY 99984	84	24-Aug	84
	CT70-9704	126	24-Aug	83
	FLP 07	58	24-Aug	80
	INDH 9803	153	24-Aug	77
Check	Climax	119	24-Aug	81
	Mean	132		81
	CV (%)	37.0		10.8
	LSD (0.05)	71		NS

*NS = not significantly different*

*\*\* very dry conditions in summer 2008 & in spring 2009*



**Timothy Trials Established in 2007**  
**Fort St. John, British Columbia: 2009 Seed Production Results**

Company	Variety	Seed Yield (kg /ha)	Harvest Date	Plant Height (cm)
Barenbrug USA	Bor 9911	62	14-Aug	81
	Bor 2005	75	14-Aug	77
Brett Young	BY 19004	41	14-Aug	75
	BY 98665	76	14-Aug	75
	BY 98667	56	14-Aug	73
	BY 99966	59	14-Aug	69
	BY 99984	36	14-Aug	75
	CT 70-9704	51	14-Aug	72
	FLP07	21	14-Aug	76
Check	INPH 9803	61	14-Aug	76
	Climax	64	14-Aug	83
	Mean	55		76
	CV (%)	75.5		10.8
	LSD (0.05)	NS		NS

*NS = not significantly different*

*\*\*\* extremely dry conditions in summer/fall 2008 & in spring/ summer 2009*

**Timothy Trials Established in 2007**  
**Arborg, Manitoba: 2009 Seed Production Results**

Company	Variety	Seed Yield (kg/ha)	Harvest Date	Plant Height (cm)
Barenbrug USA	Bor 9911	414	21-Aug	106
	Bor 2005	467	21-Aug	110
Check	Climax	593	21-Aug	106
	Mean	492		107
	CV (%)	25.7		3.2
	LSD (0.05)	NS		NS

*NS = not significantly different*

*\*very wet conditions in fall 2008 & spring/ summer 2009*

**Timothy Trials Established in 2008**  
**Fort St. John, British Columbia: 2009 Seed Production Results**

Company	Variety	Seed Yield (kg /ha)	Harvest Date	Plant Height (cm)
Snow Brand Seeds	Hokuei	65	14-Aug	93
	Horizon	72	14-Aug	73
	Sirius	26	14-Aug	82
	Zepher	124	14-Aug	71
	SBT0001	89	14-Aug	74
	SBT0301	75	14-Aug	75
	SBT0308	79	14-Aug	73
	SBT0309	68	14-Aug	71
	SBT0310	93	14-Aug	74
Check	Climax	133	14-Aug	73
	Mean	82		76
	CV (%)	65.6		8.9
	LSD (0.05)	NS		10

*\*\*\* extremely dry conditions in summer/fall 2008 & in spring/ summer 2009*

**Timothy Trials Established in 2008**  
**Arborg, Manitoba: 2009 Seed Production Results**

Company	Variety	Seed Yield (kg /ha)	Harvest Date	Plant Height (cm)
Snow Brand Seeds	Hokuei	411	13-Aug	122
	Horizon	958	14-Aug	120
	Sirius	420	14-Aug	128
	Zepher	816	13-Aug	121
	SBT0001	792	13-Aug	124
	SBT0301	732	13-Aug	123
	SBT0308	702	14-Aug	121
	SBT0309	602	14-Aug	124
	SBT0310	787	14-Aug	126
Check	Climax	850	13-Aug	117
	Mean	707		123
	CV (%)	10.3		3.2
	LSD (0.05)	105		6

*\*very wet conditions in fall 2008 & spring/ summer 2009*

**Summary of Seed Yield (kg per ha) for Timothy  
in Western Canada 2006 – 2009**

Establ. Year	Company	Variety	Seed yield / production year											
			Fort St.John			Beaverlodge			Arborg					
			1	2	3	1	2	3	1	2	3			
2006	Brett Young	BY 19004				221	145	160						
		BY 98665				452	257	128						
		BY 98667				387	213	146						
		BY 99966				425	341	217						
		BY 99984				242	236	84						
		CT 70-9704				371	123	126						
		FLP07				281	57	58						
		INPH 9803				392	276	153						
	Check	Climax				404	220	119						
2007	Barenbrug USA	Bor 9911	291	62					439	414				
		Bor 2005	220	75					568	467				
	Brett Young	BY 19004	170	41										
		BY 98665	285	76										
		BY 98667	214	56										
		BY 99966	328	59										
		BY 99984	228	36										
		CT 70-9704	132	51										
		FLP07	103	21										
		INPH 9803	351	61										
	Check	Climax	283	64					516	593				
2008	Snow Brand Seeds	Hokuei	65			*			411					
		Horizon	72			*			958					
		Sirius	26			*			420					
		Zepher	124			*			816					
		SBT0001	89			*			792					
		SBT0301	75			*			732					
		SBT0308	79			*			702					
		SBT0309	68			*			602					
		SBT0310	93			*			787					
	Check	Climax	133			*			850					

\* Due to droughty conditions, poor establishment at both Peace Region sites in 2008. Decision made in consultation with Snow Brand to keep FSJ site, to evaluate variety response to drought; but reseed Beaverlodge in 2009.

**Summary of all WGST Trials At 3 Sites Established 2006 - 2009**

Company	Species	Variety	Fort St. John				Beaverlodge				Arborg		
			2006	2007	2008	2009	2006	2007	2008	2009	2007	2008	2009
<b>Barenbrug USA</b>	Hard fescue	Hardtop	x					x	x				
	Tall fescue	BARFA 1005			x			x			x	x	
	Tall fescue	BAR3FABRT9			x			x			x	x	
	Tall fescue	Bariane			x			x			x	x	
	Tall fescue	Barcarella			x			x			x	x	
	Timothy	Bor 9911	x								x		
	Timothy	Bor 2005	x								x		
	Kentucky bluegrass	BAR PP 0468									x		
	Kentucky bluegrass	BAR VV 8536									x		
	Orchard grass	Baridana			x				x		x		
	Orchard grass	Intensiv			x				x		x		
	Perennial ryegrass	Remington									x		
<b>Brett Young</b>	Timothy	BY19004	x	x				x					
	Timothy	BY 98665	x	x				x					
	Timothy	BY 98667	x	x				x					
	Timothy	BY 99966	x	x				x					
	Timothy	BY 99984	x	x				x					
	Timothy	CT70-9704	x	x				x					
	Timothy	FLP 07	x	x				x					
	Timothy	INPH 9803	x	x				x					
	Creeping red fescue	IS FRR 23				x			x		x		
	Creeping red fescue	IS FRR 29				x			x		x		
<b>Pickseed</b>	Creeping red fescue	Garnet				x				x			
	Creeping red fescue	SR 5250				x				x			
<b>Snow Brand</b>	Timothy	Hokuei			x					x	x		x
	Timothy	Horizon			x					x	x		x
	Timothy	Sirius			x					x	x		x
	Timothy	Zepher			x					x	x		x
	Timothy	SBT0001			x					x	x		x
	Timothy	SBT0301			x					x	x		x
	Timothy	SBT0308			x					x	x		x
	Timothy	SBT0309			x					x	x		x
	Timothy	SBT0310			x					x	x		x
	<b>Total Entries From All Years &amp; All Co.</b>		112	8	11	17	2	8	9	12	14	11	13
<b>Total plots completed in 2009</b>		8									1		
<b>Total plots reseeded for co./ no charge</b>		41	8	8	6				3	12	4		
<b>Total 2006 Reseeding</b>		8	8										
<b>Total 2007 Reseeding</b>		8		8									
<b>Total 2008 Reseeding</b>		13			6				3			4	
<b>Total 2009 Reseeding</b>		12								12			
<b>Total Entries Invoiced for in 2009</b>		68	0	11	17	2	8	9	0	2	6	13	0