

**Alberta
Agriculture & Food**

**Saskatchewan
Agriculture & Food**

**Manitoba Agriculture,
Food and Rural Initiative**

**WFTEST:
The Western Forage
Testing System
Report
2011**



**Agriculture and
Agri-Food Canada**

**Canadian
Seed Trade Association**

*** Please Note ***

Some trials in this report have been tested for shorter periods of time than others. It is advised not to use either average yield figures and/or percent of check values to make cultivar 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 Variation (ANOVA). Least significant difference (LSD) values are presented at the bottom of each table. 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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WFTEST: The Western Forage Testing System

1. Introduction

The Western Forage Testing System (WFTEST) was developed in 1994 to coordinate the testing for registration and performance of forage cultivars across Alberta, Saskatchewan and Manitoba.

The goals of this system are:

- . To streamline and coordinate the registration and performance evaluation process. The tests will provide sufficient data for simultaneous consideration for registration and/or performance listings in Alberta, Saskatchewan and Manitoba.
- . To share the responsibility for forage testing among provinces, the federal government and the seed trade.
- . To encourage as much data collection as possible and to ensure that the tests are uniform and the sites are inspected.

2. Procedure for Entering Cultivars

2.1 Number of Cultivars

The maximum number of entries to be tested per species per year is 25, including check varieties. If there are too many entries in a given year, only three entries per applicant will be accepted.

2.2 Deadline for Application

The WFTest Coordinator must receive application forms by February 15 of the seeding year. Two kilograms of seed for each entry are required and must be received by March 15. Invoices will be sent once the test has been finalized. The WFTest Coordinator contact information can be found on page 5.

2.3 Application Form

An application form is attached in the appendix.

2.4 Fees

The fee for all 12 sites is \$900/entry/year (\$75/entry/location). Companies will be invoiced annually for each year of the test (establishment year plus three harvest years). If reseeded is required at any site, companies will not be invoiced for those sites in the year of reseeded. There will be flexibility in the core sites to accommodate species adaptability – for example, red clover or timothy would not necessarily be tested at sites in Area 1 (brown) or Area 2 (dark brown) agro-climatic zones and fees would be adjusted accordingly.

3. General Information

3.1 Sites

a) Manitoba

- Arborg (black) Area 3
- Carberry (black) Area 3
- Glenlea (black) Area 3
- Rosebank (black) Area 3

b) Saskatchewan

- Swift Current (brown) Area 1
- Saskatoon (dark brown) Area 2
- Melfort (black) Area 3
- Outlook (dark brown) Irrigation

c) Alberta

- Vegreville (black) Area 3
- Fort Kent (grey wooded) Area 4
- Westlock (grey wooded) Area 4
- Lethbridge (dark brown) Irrigation

WFTest Sites



3.2 Seeding Schedules

Species trials will be seeded annually if sufficient entries are received. Tests that fail to establish will be reseeded in the following year. Annual and Italian ryegrasses will undergo two successive seedings.

3.3 Experimental Design and Plot Management

Tests will be seeded in a randomized complete block design with a minimum of four replicates, a suggested minimum plot size of 6 m x 1 m and a suggested minimum harvest area of 5 sq. m. Sites will be managed according to the recommended practices for forage management in the region. The seeding rates will be based on provincial recommendations and will be calculated on a pure live seeds/meter of row.

3.4 Check Varieties

The following list is subject to approval by provincial forage testing committees:

- ◆ Alfalfa: Beaver, AC Blue J, Rambler, Rangelander
- ◆ Birdsfoot trefoil: Leo
- ◆ Cicer milkvetch: Oxley
- ◆ Alsike clover: Aurora
- ◆ Red clover: Altaswede
- ◆ Sainfoin: Nova
- ◆ Yellow Sweetclover: Norgold
- ◆ White clover: California Ladino
- ◆ Smooth brome grass: Carlton
- ◆ Meadow brome grass: Fleet
- ◆ Creeping red fescue: Boreal
- ◆ Meadow fescue: Mimer
- ◆ Tall fescue: Courtenay
- ◆ Kentucky bluegrass: Troy
- ◆ Orchard grass: Kay
- ◆ Altai wildrye: Prairieland
- ◆ Russian wildrye: Swift
- ◆ Timothy: Climax
- ◆ Crested wheatgrass: Kirk
- ◆ Intermediate/Pubescent wheatgrass: Chief
- ◆ Northern wheatgrass: Elbee
- ◆ Slender wheatgrass: Revenue
- ◆ Streambank wheatgrass: Sodar
- ◆ Tall wheatgrass: Orbit
- ◆ Western wheatgrass: Walsh
- ◆ Perennial ryegrass: Norlea
- ◆ Westerwolds annual ryegrass: Aubade
- ◆ Italian ryegrass: Maris Ledger

The committee will update check varieties as necessary. However, data for a given entry will be compared to the same check throughout its evaluation.

4. **Site Inspection**

Members of the provincial forage cultivar registration subcommittees will visit all sites before the first harvest each year. Visits will be organized by WFTest members in each province and information reported immediately to the WFTest coordinator. Tests will be rated as: a) accepted, b) conditionally accepted (e.g. certain plots or replicates may not be harvested), or c) rejected.

5. **Data Collection**

Forage harvests will be made for legumes at the beginning of bloom and for grasses at full heading. Forage yield data will be reported on a dry matter basis in kg/ha. The number of harvests will be determined by growth conditions at the test location. No harvests will be taken during a fall rest period, the dates of which will correspond to local climatic conditions.

Perennial species will be harvested for a minimum of three successive years, annual and biennial species will be harvested for a minimum of two successive years. All trial data will be reported.

6. **Data Management**

Each province will be responsible for their trial data management and statistical analysis. Provincial representatives will annually forward trial data for entries eligible for registration to industry participants before provincial advisory committee meetings. Summarized data will be forwarded to the WFTest coordinator. Committee members and industry participants will receive a compiled annual report.

7. **Provincial Contacts**

For information on varietal data contact the respective provincial representative:

Alberta

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Western Forage Testing Coordinating Committee

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<p>Kerby Lowen Brett-Young Seeds Ltd. RR #4 Corner of Hwy 60 & Hwy 39 CALMAR, AB T0C 0V0 Phone: 780-985-7303 Fax: 780-985-8580 e-mail: kerby.lowen@brettyoung.ca</p>	<p>Dr. Bruce Coulman Department of Plant Science University of Saskatchewan 51 Campus Drive SASKATOON, SK S7N 5A8 Phone: 306-966-1387 Fax: 306-966-5015 e-mail: bruce.coulman@usask.ca</p>
<p>Michel Tremblay Saskatchewan Agriculture & Food 133, 3085 Albert St. REGINA, SK S4S 0B1 Phone: 306-787-7712 Fax: 306-787-0428 e-mail: mtremblay@agr.gov.sk.ca</p>	<p>Dorothy Murrell Crop Development Centre Department of Plant Science University of Saskatchewan 51 Campus Drive SASKATOON, SK S7N 5A8 Phone: 306-966-8195 Fax: 306-966-5015 e-mail: dorothy.murrell@usask.ca</p>
<p>Glen Friesen Manitoba Agriculture, Food and Rural Initiative Box 1149 CARMEN, MB R0G 0J0 Phone: 204-745-5672 Fax: 204-745-5690 e-mail: Glenn.friesen@gov.mb.ca</p>	

Species and Origin of Entries in WFTesting System

Alfalfa 2009

1.	Radiant HD	Ampac
2.	Rugged (TS-3025)	Target Seed
3.	TS-4002	Target Seed
4.	NS09-ST01	Northstar Seed
5.	NS09-MF01	Northstar Seed
6.	VT 09001	Viterra / Proven Seed
7.	VT 09002	Viterra / Proven Seed
8.	VT 09003	Viterra / Proven Seed
9.	PF 09010	Viterra / Proven Seed
10.	PC 09050	Viterra / Proven Seed
11.	PC 09051	Viterra / Proven Seed
12.	PC 09070	Viterra / Proven Seed
13.	PC 09080	Viterra / Proven Seed
14.	PC 09081	Viterra / Proven Seed
15.	PC 09082	Viterra / Proven Seed
16.	VC 09101	Viterra / Proven Seed
17.	VC 09102	Viterra / Proven Seed
18.	L 333HD	Legacy Seed
19.	Beaver	Check
20.	AC Blue J	Check
21.	Rambler	Check
22.	Rangelander	Check

Red Clover 2009

1.	Starfire II	Ampac
2.	Altaswede	Check

Orchardgrass 2009

1.	NS09-OG-01	Northstar Seed
2.	OG426	AAFC - Lethbridge
3.	96 OG-2	AAFC - Lethbridge
2.	Kay	Check

Sainfoin 2009

1.	LRC05-3900	AAFC – Lethbridge
2.	LRC05-3901	AAFC – Lethbridge
3.	LRC05-3902	AAFC – Lethbridge
4.	Nova	Check

2009 WFT Alfalfa, Lethbridge AB, Area - Irrigation

Cultivar	2011 Forage Yield (kg DM ha ⁻¹)			Total	% of Beaver
	Cut 1 8-Jul	Cut 2 24-Aug	Cut 3 3-Oct		
VT 09001	5446	4766	1580	11792	105
AC Blue J	5174	4627	1865	11666	104
L333HD	5687	4487	1472	11646	104
NS09-ST01	5586	4087	1773	11446	102
Radiant HD	5015	4384	1800	11199	100
NS09-MF01	5129	4645	1424	11198	100
TS-3025	5250	4147	1795	11192	100
Beaver	5592	3602	1988	11182	100
VC 09102	5636	4354	1112	11102	99
PC 09051	5408	4475	1102	10985	98
PC 09050	5358	4245	1236	10839	97
VC 09101	5250	4360	1172	10782	96
TS-4002	5560	3675	1526	10761	96
Rangelander	5370	3402	1978	10750	96
PC 09080	5091	4426	1204	10721	96
Rambler	5053	3923	1741	10717	96
PC 09081	5465	4196	1016	10677	95
VT 09003	4831	4475	1257	10563	94
VT 09002	5091	4075	1397	10563	94
PC 09082	5339	4020	1198	10557	94
PF 09010	5174	4050	1172	10396	93
PC 09070	5174	3687	1096	9957	89
mean	5304	4187	1450	10941	98
CV (%)	11.69	12.05	18.18	7.71	
LSD (0.05)	780	634	332	1061	

2009 WFT Alfalfa, Fort Kent AB, Area - 4

Cultivar	2011 Forage Yield (kg DM ha-1)			Total	% of Beaver
	Cut 1 22-Jul	Cut 2 25-Oct	Cut 3 .		
VT 09001	6587	3655	.	10242	122
PC 09082	5988	3362	.	9350	111
AC Blue J	5813	3514	.	9327	111
VT 09003	5912	3398	.	9309	111
Rangelander	5980	3152	.	9131	109
Rambler	6164	2672	.	8836	105
NS09-MF01	5085	3701	.	8786	104
VC 09101	5588	3182	.	8770	104
NS09-ST01	4836	3921	.	8757	104
PF 09010	5066	3565	.	8631	103
TS-4002	5221	3408	.	8629	103
Beaver	5053	3360	.	8413	100
PC 09070	4834	3478	.	8313	99
PC 09081	4633	3667	.	8300	99
L333HD	4692	3525	.	8217	98
PC 09051	4746	3451	.	8197	97
Radiant HD	5114	2961	.	8075	96
VT 09002	4528	3522	.	8050	96
TS-3025	4743	3195	.	7939	94
PC 09050	4417	3389	.	7806	93
VC 09102	4609	3080	.	7689	91
PC 09080	4318	3180	.	7498	89
mean	5178	3379	.	8557	102
CV (%)	12.42	12.29	.	8.72	
LSD (0.05)	963	622	.	1118	

2009 WFT Alfalfa, Swift Current SK, Area - 1

Cultivar	2011 Forage Yield (kg DM ha ⁻¹)			Total	% of Beaver
	Cut 1 5-Jul	Cut 2 22-Aug	Cut 3 .		
NS09-MF01	.	.	.	.	.
NS09-ST01	.	.	.	.	.
PC 09051	8405	2150	.	10555	118
Radiant HD	8113	2197	.	10310	115
Rangelander	8717	1415	.	10132	113
Rambler	8396	1469	.	9865	110
TS-3025	8093	1763	.	9856	110
PF 09010	7933	1908	.	9841	110
PC 09081	7443	2197	.	9640	107
AC Blue J	7813	1610	.	9423	105
PC 09082	7381	2037	.	9418	105
VT 09001	7374	1984	.	9358	104
VC 09102	7750	1589	.	9339	104
PC 09080	7236	2041	.	9277	103
L333HD	7372	1875	.	9247	103
VC 09101	7344	1785	.	9129	102
VT 09003	7345	1651	.	8996	100
Beaver	7409	1564	.	8973	100
PC 09050	7234	1689	.	8923	99
TS-4002	7126	1681	.	8807	98
PC 09070	6678	1690	.	8368	93
VT 09002	5763	1598	.	7361	82
mean	7546	1795	.	9341	104
CV (%)	11.61	14.14	.	10.79	
LSD (0.05)	1231	359	.	1419	

2009 WFT Alfalfa, Saskatoon SK, Area - 2

Cultivar	2011 Forage Yield (kg DM ha ⁻¹)			Total	% of Beaver
	Cut 1 6-Jul	Cut 2 19-Aug	Cut 3 .		
PC 09081	8669	4070	.	12739	137
L333HD	8227	3810	.	12037	129
NS09-MF01	8223	3710	.	11933	128
VC 09101	7787	3699	.	11486	123
VT 09001	7667	3782	.	11449	123
Radiant HD	7558	3837	.	11395	122
PC 09082	7468	3785	.	11253	121
PC 09050	7794	3344	.	11138	120
VT 09003	7523	3541	.	11064	119
NS09-ST01	7239	3741	.	10980	118
PF 09010	7526	3433	.	10959	118
VT 09002	7259	3637	.	10896	117
PC 09051	7294	3528	.	10822	116
PC 09080	7262	3529	.	10791	116
TS-3025	7139	3556	.	10695	115
VC 09102	7195	3451	.	10646	114
TS-4002	6956	3572	.	10528	113
AC Blue J	7097	3423	.	10520	113
PC 09070	6730	3643	.	10373	111
Beaver	6170	3138	.	9308	100
Rangelander	5914	2668	.	8582	92
Rambler	5857	2571	.	8428	91
mean	7298	3521	.	10819	116
CV (%)	10.10	8.30	.	8.40	
LSD (0.05)	1045	415	.	1287	

2009 WFT Alfalfa, Melfort SK, Area - 3

Cultivar	2011 Forage Yield (kg DM ha ⁻¹)			Total	% of Beaver
	Cut 1 5-Jul	Cut 2 6-Sep	Cut 3 .		
L333HD	7575	5772	.	13347	106
Rangelander	7702	5139	.	12841	102
VC 09101	7086	5567	.	12653	101
Rambler	7722	4889	.	12611	101
AC Blue J	7012	5575	.	12587	100
NS09-ST01	7111	5469	.	12580	100
Beaver	7164	5379	.	12543	100
VT 09003	6812	5696	.	12508	100
NS09-MF01	6666	5830	.	12496	100
TS-4002	6474	6020	.	12494	100
VT 09001	6690	5668	.	12358	99
Radiant HD	6726	5603	.	12329	98
PC 09051	6823	5438	.	12261	98
PC 09082	6318	5826	.	12144	97
VC 09102	7007	5100	.	12107	97
PF 09010	7120	4939	.	12059	96
TS-3025	6332	5561	.	11893	95
VT 09002	6416	5454	.	11870	95
PC 09080	6087	5511	.	11598	92
PC 09081	6426	5171	.	11597	92
PC 09070	5676	5502	.	11178	89
PC 09050	6212	4717	.	10929	87
mean	6780	5447	.	12227	97
CV (%)	10.90	8.10	.	7.90	
LSD (0.05)	1046	622	.	1378	

2009 WFT Alfalfa, Outlook SK, Area - Irrigation

Cultivar	2011 Forage Yield (kg DM ha-1)			Total	% of Beaver
	Cut 1 27-Jun	Cut 2 8-Aug	Cut 3 22-Sep		
PC 09081	8608	5772	4447	18827	125
PC 09050	8953	5384	4324	18661	124
VC 09101	8716	5391	4492	18599	123
PC 09082	8164	5670	4508	18342	121
PC 09051	8138	5420	4528	18086	120
NS09-ST01	8628	5317	4118	18063	120
Radiant HD	8422	5363	4054	17839	118
PC 09070	8348	5630	3786	17764	118
PC 09080	8038	5250	4391	17679	117
AC Blue J	7687	5673	4253	17613	117
TS-4002	7695	5516	4357	17568	116
TS-3025	8233	5264	4063	17560	116
VT 09003	8127	5521	3740	17388	115
L333HD	8138	5542	3698	17378	115
VC 09102	8114	5051	4171	17336	115
NS09-MF01	7918	5483	3909	17310	115
VT 09001	7560	5228	4360	17148	114
VT 09002	7234	5340	4400	16974	112
PF 09010	7392	5121	4121	16634	110
Beaver	7269	4779	3059	15107	100
Rambler	6564	3929	2119	12612	83
Rangelander	6395	3709	2177	12281	81
mean	7925	5243	3958	17126	113
CV (%)	9.80	10.10	14.30	11.60	
LSD (0.05)	1106	749	805	2796	

2009 WFT Alfalfa, Arborg MB, Area - 3

Cultivar	2011 Forage Yield (kg DM ha ⁻¹)			Total	% of Beaver
	Cut 1 6-Jul	Cut 2 11-Aug	Cut 3 .		
Radiant HD	6465	3189	.	9654	106
NS09-MF01	6546	3036	.	9582	105
PC 09082	6346	3149	.	9495	104
VT 09001	6302	3179	.	9481	104
TS-3025	6561	2865	.	9426	103
PC 09051	6171	3182	.	9353	103
AC Blue J	6202	3115	.	9317	102
PF 09010	6327	2941	.	9268	102
VC 09101	6246	3008	.	9254	101
NS09-ST01	5993	3191	.	9184	101
PC 09081	6062	3103	.	9165	100
PC 09050	6199	2959	.	9158	100
PC 09080	6030	3127	.	9157	100
Beaver	6002	3118	.	9120	100
VT 09002	6030	2966	.	8996	99
L333HD	6028	2868	.	8896	98
VT 09003	5987	2859	.	8846	97
TS-4002	6099	2737	.	8836	97
PC 09070	6193	2621	.	8814	97
VC 09102	5827	2874	.	8701	95
Rambler	6190	2505	.	8695	95
Rangelander	5890	2697	.	8587	94
mean	6168	2968	.	9136	100
CV (%)	7.74	9.34	.	6.30	
LSD (0.05)	675	390	.	812	

2009 WFT Alfalfa, Carberry MB, Area - 3

Cultivar	2011 Forage Yield (kg DM ha-1)			Total	% of Beaver
	Cut 1 28-Jun	Cut 2 20-Aug	Cut 3 .		
VT 09001	7495	5960	.	13455	114
PC 09080	7321	5383	.	12704	108
AC Blue J	8051	4652	.	12703	108
VT 09003	7600	4973	.	12573	107
VT 09002	7329	5056	.	12385	105
PC 09051	7002	5340	.	12342	105
Radiant HD	7096	5230	.	12326	105
VC 09101	7372	4849	.	12221	104
Rangelander	7099	4949	.	12048	102
TS-3025	6986	4928	.	11914	101
TS-4002	6896	5017	.	11913	101
PC 09081	7375	4534	.	11909	101
PC 09082	7172	4725	.	11897	101
PC 09070	7186	4643	.	11829	101
L333HD	6860	4908	.	11768	100
VC 09102	6808	4959	.	11767	100
Beaver	7027	4729	.	11756	100
PC 09050	7168	4530	.	11698	100
Rambler	6911	4604	.	11515	98
PF 09010	6563	4543	.	11106	94
NS09-MF01	.	.	.	.	.
NS09-ST01	.	.	.	.	.
mean	7166	4926	.	12091	103
CV (%)	8.73	10.58	.	7.28	
LSD (0.05)	886	738	.	1246	

2009 WFT Alfalfa, Kelburn MB, Area - 3

Cultivar	2011 Forage Yield (kg DM ha ⁻¹)			Total	% of Beaver
	Cut 1 8-Jul	Cut 2 24-Aug	Cut 3 .		
VT 09001	5829	1546	.	7375	102
Radiant HD	5625	1693	.	7318	101
Beaver	5708	1523	.	7231	100
PC 09070	5450	1743	.	7193	99
PC 09082	5418	1735	.	7153	99
PC 09080	5405	1666	.	7071	98
VT 09003	5488	1562	.	7050	97
VT 09002	5603	1423	.	7026	97
L333HD	5309	1701	.	7010	97
TS-4002	5363	1631	.	6994	97
PC 09051	5469	1496	.	6965	96
PC 09081	5156	1643	.	6799	94
TS-3025	5191	1531	.	6722	93
Rangelander	5357	1342	.	6699	93
PC 09050	5057	1566	.	6623	92
PF 09010	5112	1465	.	6577	91
NS09-ST01	4974	1597	.	6571	91
Rambler	5366	1196	.	6562	91
AC Blue J	5198	1284	.	6482	90
VC 09101	4978	1408	.	6386	88
NS09-MF01	4269	1496	.	5765	80
VC 09102	4610	1153	.	5763	80
mean	5224	1508	.	6732	93
CV (%)	11.90	23.02	.	11.90	
LSD (0.05)	887	491	.	1144	

2009 WFT Orchardgrass, Lethbridge AB, Area - Irrigation

Cultivar	2011 Forage Yield (kg DM ha ⁻¹)			Total	% of Kay
	Cut 1 29-Jun	Cut 2	Cut 3		
NS09-OG-01	6971	.	.	6971	106
Kay	6568	.	.	6568	100
OG426	6620	.	.	6620	101
96 OG-2	6454	.	.	6454	98
mean	6653	.	.	6653	101
CV (%)	13.72	.	.	13.72	
LSD (0.05)	1460	.	.	1460	

2009 WFT Orchardgrass, Fort Kent AB, Area - 4

Cultivar	2010 Forage Yield (kg DM ha ⁻¹)			Total	% of Kay
	Cut 1 29-Jun	Cut 2 24-Oct	Cut 3		
OG426	6029	4581.5	.	10611	108
NS09-OG-01	4925	5231.63	.	10157	103
Kay	4323	5498.91	.	9821	100
96 OG-2	3663	4163.94	.	7827	80
mean	4735	4869	.	9604	98
CV (%)	10.12	23.27	.	10.43	
LSD (0.05)	767	1812	.	1602	

2009 WFT Orchardgrass, Saskatoon SK, Area - 2

Cultivar	2011 Forage Yield (kg DM ha ⁻¹)			Total	% of Kay
	Cut 1 5-Jul	Cut 2	Cut 3		
Kay	6220	.	.	6220	100
NS09-OG-01	5931	.	.	5931	95
OG426	5903	.	.	5903	95
96 OG-2	5415	.	.	5415	87
mean	5867	.	.	5867	94
CV (%)	6.00	.	.	6.00	
LSD (0.05)	565	.	.	565	

2009 WFT Orchardgrass, Melfort SK, Area - 3

Cultivar	2011 Forage Yield (kg DM ha ⁻¹)			Total	% of Kay
	Cut 1 18-Jul	Cut 2 7-Sep	Cut 3 .		
OG426	5804	1469	.	7273	101
Kay	5618	1577	.	7195	100
NS09-OG-01	5641	1455	.	7096	99
96 OG-2	5177	1490	.	6667	93
mean	5560	1498	.	7058	98
CV (%)	6.60	13.90	.	6.60	
LSD (0.05)	590	335	.	750	

2009 WFT Orchardgrass, Outlook SK, Area - Irrigation

Cultivar	2011 Forage Yield (kg DM ha ⁻¹)			Total	% of Kay
	Cut 1 27-Jun	Cut 2 25-Aug	Cut 3 .		
NS09-OG-01	6987	2325	.	9312	108
Kay	6336	2281	.	8617	100
OG426	5633	1860	.	7493	87
96 OG-2	5384	1597	.	6981	81
mean	6085	2016	.	8101	94
CV (%)	14.70	20.20	.	14.60	
LSD (0.05)	1431	651	.	1892	

2009 WFT Orchardgrass, Arborg MB, Area - 3

Cultivar	2011 Forage Yield (kg DM ha ⁻¹)			Total	% of Kay
	Cut 1 4-Jul	Cut 2	Cut 3		
Kay	4705	.	.	4705	100
NS09-OG-01	4398	.	.	4398	93
96 OG-2	4200	.	.	4200	89
OG426	3936	.	.	3936	84
mean	4310	.	.	4310	92
CV (%)	17.95	.	.	17.95	
LSD (0.05)	1237	.	.	1237	

2009 WFT Orchardgrass, Carberry MB, Area - 3

Cultivar	2011 Forage Yield (kg DM ha ⁻¹)			Total	% of Kay
	Cut 1 28-Jun	Cut 2	Cut 3		
Kay	5469	.	.	5469	100
96 OG-2	5415	.	.	5415	99
NS09-OG-01	5381	.	.	5381	98
OG426	5065	.	.	5065	93
mean	5333	.	.	5333	98
CV (%)	10.39	.	.	10.39	
LSD (0.05)	886	.	.	886	

2009 WFT Orchardgrass, Rosebank MB, Area - 3

Cultivar	2011 Forage Yield (kg DM ha ⁻¹)			Total	% of Kay
	Cut 1 7-Jul	Cut 2	Cut 3		
NS09-OG-01	7176	.	.	7176	106
OG426	7030	.	.	7030	104
Kay	6762	.	.	6762	100
96 OG-2	6587	.	.	6587	97
mean	6889	.	.	6889	102
CV (%)	20.78	.	.	20.78	
LSD (0.05)	2290	.	.	2290	

2009 WFT Orchardgrass, Kelburn MB, Area - 3

Cultivar	2011 Forage Yield (kg DM ha ⁻¹)			Total	% of Kay
	Cut 1 13-Jul	Cut 2	Cut 3		
96 OG-2	1727	.	.	1727	120
NS09-OG-01	1560	.	.	1560	108
Kay	1438	.	.	1438	100
OG426	1292	.	.	1292	90
mean	1504	.	.	1504	105
CV (%)	22.48	.	.	22.48	
LSD (0.05)	541	.	.	541	

2009 WFT Red Clover, Lethbridge AB, Area - Irrigation

Cultivar	2011 Forage Yield (kg DM ha ⁻¹)			Total	% of Altaswede
	Cut 1 5-Jul	Cut 2 24-Aug	Cut 3 .		
Altaswede	4828	1432	.	6260	100
Starfire	3965	2178	.	6143	98
mean	4397	1805	.	6202	99
CV (%)	6.70	11.23	.	6.85	
LSD (0.05)	518	356	.	746	

2009 WFT Red Clover, Fort Kent AB, Area - 4

Cultivar	2010 Forage Yield (kg DM ha ⁻¹)			Total	% of Altaswede
	Cut 1 11-Aug	Cut 2 .	Cut 3 .		
Altaswede	12994	.	.	12994	100
Starfire	7183	.	.	7183	55
mean	10089	.	.	10089	78
CV (%)	14.06	.	.	14.06	
LSD (0.05)	3192	.	.	3192	

2009 WFT Red Clover, Swift Current SK, Area - 1

Cultivar	2011 Forage Yield (kg DM ha ⁻¹)			Total	% of Altaswede
	Cut 1 5-Jul	Cut 2 24-Aug	Cut 3 .		
Starfire	4112	2178	.	6290	102
Altaswede	4807	1390	.	6197	100
mean	4460	1784	.	6244	101
CV (%)	.	.	.	.	.
LSD (0.05)	.	.	.	.	.

2009 WFT Red Clover, Saskatoon SK, Area - 2

Cultivar	2011 Forage Yield (kg DM ha ⁻¹)			Total	% of Altaswede
	Cut 1 30-Jun	Cut 2 19-Aug	Cut 3 .		
Altaswede	8814	3407	.	12221	100
Starfire	4862	5234	.	10096	83
mean	6838	4321	.	11159	91
CV (%)	16.50	14.90	.	5.10	.
LSD (0.05)	2554	1454	.	1298	.

2009 WFT Red Clover, Melfort SK, Area - 3

Cultivar	2011 Forage Yield (kg DM ha ⁻¹)			Total	% of Altaswede
	Cut 1 18-Jul	Cut 2 7-Sep	Cut 3 .		
Altaswede	8566	2330	.	10896	100
Starfire	5498	3355	.	8853	81
mean	7032	2843	.	9875	91
CV (%)	12.30	4.80	.	8.10	
LSD (0.05)	1962	310	.	1817	

2009 WFT Red Clover, Outlook SK, Area - Irrigation

Cultivar	2011 Forage Yield (kg DM ha ⁻¹)			Total	% of Altaswede
	Cut 1 27-Jun	Cut 2 5-Aug	Cut 3 .		
Altaswede	9124	3349	.	12473	100
Starfire	7040	4451	.	11491	92
mean	8082	3900	.	11982	96
CV (%)	10.90	20.30	.	11.10	
LSD (0.05)	1993	1790	.	2989	

2009 WFT Red Clover, Arborg MB, Area - 3

Cultivar	2011 Forage Yield (kg DM ha ⁻¹)			Total	% of Atlaswede
	Cut 1 4-Jul	Cut 2 11-Aug	Cut 3 .		
Starfire	6101	2058	.	8159	150
Atlaswede	4614	817	.	5431	100
mean	5358	1438	.	6795	125
CV (%)	11.74	17.35	.	8.60	
LSD (0.05)	1416	561	.	1315	

2009 WFT Red Clover, Carberry MB, Area - 3

Cultivar	2011 Forage Yield (kg DM ha ⁻¹)			Total	% of Atlaswede
	Cut 1 28-Jun	Cut 2 20-Aug	Cut 3 .		
Starfire	6578	4310	.	10888	147
Atlaswede	5677	1727	.	7404	100
mean	6128	3019	.	9146	124
CV (%)	7.68	10.84	.	.	
LSD (0.05)	6127	3018	.	.	

2009 WFT Red Clover, Rosebank MB, Area - 3

Cultivar	2011 Forage Yield (kg DM ha ⁻¹)			Total	% of Altaswede
	Cut 1 7-Jul	Cut 2	Cut 3		
Starfire	8227	.	.	8227	131
Altaswede	6246	.	.	6246	100
mean	7237	.	.	7237	116
CV (%)	6.45	.	.	6.45	
LSD (0.05)	1050	.	.	1050	

2009 WFT Red Clover, Kelburn MB, Area - 3

Cultivar	2011 Forage Yield (kg DM ha ⁻¹)			Total	% of Altaswede
	Cut 1 4-Jul	Cut 2	Cut 3		
Starfire	5325	.	.	5325	80
Altaswede	6674	.	.	6674	100
mean	6000	.	.	6000	90
CV (%)	7.30	.	.	7.30	
LSD (0.05)	154	.	.	154	

2009 WFT Sainfoin, Lethbridge AB, Area - Irrigation

Cultivar	2011 Forage Yield (kg DM ha ⁻¹)			Total	% of Nova
	Cut 1 5-Jul	Cut 2 11-Aug	Cut 3 .		
LRC05-3901	4584	3502	.	8086	120
LRC05-3902	4494	3488	.	7982	118
LRC05-3900	4605	3171	.	7776	115
Nova	4591	2152	.	6743	100
mean	4569	3078	.	7647	113
CV (%)	11.05	6.86	.	8.55	
LSD (0.05)	696	291	.	901	

2009 WFT Sainfoin, Fort Kent AB, Area - 4

Cultivar	2010 Forage Yield (kg DM ha ⁻¹)			Total	% of Nova
	Cut 1 29-Jun	Cut 2 .	Cut 3 .		
Nova	2945	.	.	2945	100
LRC05-3901	2409	.	.	2409	82
LRC05-3902	2378	.	.	2378	81
LRC05-3900	2041	.	.	2041	69
mean	2443	.	.	2443	83
CV (%)	14.84	.	.	14.84	
LSD (0.05)	580	.	.	580	

2009 WFT Sainfoin, Swift Current SK, Area - 1

Cultivar	2011 Forage Yield (kg DM ha ⁻¹)			Total	% of Nova
	Cut 1 5-Jul	Cut 2 19-Aug	Cut 3 .		
Nova	2815	819	.	3634	100
LRC05-3900	2129	966	.	3095	85
LRC05-3902	2116	898	.	3014	83
LRC05-3901	2013	937	.	2950	81
mean	2268	905	.	3173	87
CV (%)	11.12	29.67	.	10.73	
LSD (0.05)	430	456	.	580	

2009 WFT Sainfoin, Saskatoon SK, Area - 2

Cultivar	2011 Forage Yield (kg DM ha ⁻¹)			Total	% of Nova
	Cut 1 5-Jul	Cut 2 19-Aug	Cut 3 .		
LRC05-3901	6233	3461	.	9694	106
Nova	6417	2765	.	9182	100
LRC05-3900	5977	3106	.	9083	99
LRC05-3902	5743	3130	.	8873	100
mean	6093	3116	.	9208	101
CV (%)	9.30	10.50	.	9.00	
LSD (0.05)	912	525	.	1326	

2009 WFT Sainfoin, Outlook SK, Area - Irrigation

Cultivar	2011 Forage Yield (kg DM ha ⁻¹)			Total	% of Nova
	Cut 1 27-Jun	Cut 2 5-Aug	Cut 3 .		
LRC05-3902	3002	3158	.	6160	110
LRC05-3900	2859	3041	.	5900	105
LRC05-3901	2935	2925	.	5860	105
Nova	2992	2605	.	5597	100
mean	2947	2932	.	5879	105
CV (%)	8.70	6.20	.	6.30	
LSD (0.05)	415	295	.	598	

2009 WFT Sainfoin, Arborg MB, Area - 3

Cultivar	2011 Forage Yield (kg DM ha ⁻¹)			Total	% of Nova
	Cut 1 4-Jul	Cut 2	Cut 3		
Nova	3470	.	.	3470	100
LRC05-3902	3436	.	.	3436	99
LRC05-3900	3423	.	.	3423	99
LRC05-3901	2927	.	.	2927	84
mean	3314	.	.	3314	96
CV (%)	14.98	.	.	14.98	
LSD (0.05)	794	.	.	794	

2009 WFT Sainfoin, Carberry MB, Area - 3

Cultivar	2011 Forage Yield (kg DM ha ⁻¹)			Total	% of Nova
	Cut 1 28-Jun	Cut 2	Cut 3		
LRC05-3900	4520	.	.	4520	113
LRC05-3901	4239	.	.	4239	106
Nova	4017	.	.	4017	100
LRC05-3902	3702	.	.	3702	92
mean	4120	.	.	4120	103
CV (%)	11.32	.	.	11.32	
LSD (0.05)	746	.	.	746	

2009 WFT Sainfoin, Rosebank MB, Area - 3

Cultivar	2011 Forage Yield (kg DM ha ⁻¹)			Total	% of Nova
	Cut 1 7-Jul	Cut 2	Cut 3		
LRC05-3901	3374	.	.	3374	101
Nova	3335	.	.	3335	100
LRC05-3900	2511	.	.	2511	75
LRC05-3902	2439	.	.	2439	73
mean	2915	.	.	2915	87
CV (%)	42.43	.	.	42.43	
LSD (0.05)	2471	.	.	2471	

2009 WFT Sainfoin, Kelburn MB, Area - 3

Cultivar	2011 Forage Yield (kg DM ha ⁻¹)			Total	% of Nova
	Cut 1 13-Jul	Cut 2	Cut 3		
Nova	3023	.	.	3023	100
LRC05-3902	2827	.	.	2827	94
LRC05-3900	2364	.	.	2364	78
LRC05-3901	1906	.	.	1906	63
mean	2530	.	.	2530	84
CV (%)	24.37	.	.	24.37	
LSD (0.05)	1232	.	.	1232	

Summary WFT 2009 Alfalfa - Alberta

Cultivar	Cultivar Mean Forage Yield Summary (kg/ha)											
	3			4						Irrigation		
	Vegreville			Fort Kent			Westlock			Lethbridge		
	2010	2011	2012	2010	2011	2012	2010	2011	2012	2010	2011	2012
Beaver	8,413	.	.	.	.	9,780	11,182	.
AC Blue J	9,327	.	.	.	.	10,950	11,666	.
L333HD	8,217	.	.	.	.	11,926	11,646	.
NS09-MF01	8,786	.	.	.	.	13,882	11,198	.
NS09-ST01	8,757	.	.	.	.	11,312	11,446	.
PC 09050	7,806	.	.	.	.	12,486	10,839	.
PC 09051	8,197	.	.	.	.	11,213	10,985	.
PC 09070	8,313	.	.	.	.	11,719	9,957	.
PC 09080	7,498	.	.	.	.	11,741	10,721	.
PC 09081	8,300	.	.	.	.	12,479	10,677	.
PC 09082	9,350	.	.	.	.	11,457	10,557	.
PF 09010	8,631	.	.	.	.	13,506	10,396	.
Radiant HD	8,075	.	.	.	.	11,082	11,199	.
Rambler	8,836	.	.	.	.	9,118	10,717	.
Rangelander	9,131	.	.	.	.	8,996	10,750	.
TS-3025	7,939	.	.	.	.	10,433	11,192	.
TS-4002	8,629	.	.	.	.	10,632	10,761	.
VC 09101	8,770	.	.	.	.	11,314	10,782	.
VC 09102	7,689	.	.	.	.	12,438	11,102	.
VT 09001	10,242	.	.	.	.	11,846	11,792	.
VT 09002	8,050	.	.	.	.	11,911	10,563	.
VT 09003	9,309	.	.	.	.	13,231	10,563	.
Cuts	2	.	.	.	.	3	3	.
CV (%)	8.7	.	.	.	.	7.3	7.7	.
Trial Mean (kg/ha)	8,558	.	.	.	.	11,521	10,941	.

Summary WFT 2009 Alfalfa - Alberta

Cultivar	Forage Yield as % of Beaver											
	3			4						Irrigation		
	Vegreville			Fort Kent			Westlock			Lethbridge		
	2010	2011	2012	2010	2011	2012	2010	2011	2012	2010	2011	2012
Beaver	100	.	.	.	.	100	100	.
AC Blue J	111	.	.	.	.	112	104	.
L333HD	98	.	.	.	.	122	104	.
NS09-MF01	104	.	.	.	.	142	100	.
NS09-ST01	104	.	.	.	.	116	102	.
PC 09050	93	.	.	.	.	128	97	.
PC 09051	97	.	.	.	.	115	98	.
PC 09070	99	.	.	.	.	120	89	.
PC 09080	89	.	.	.	.	120	96	.
PC 09081	99	.	.	.	.	128	95	.
PC 09082	111	.	.	.	.	117	94	.
PF 09010	103	.	.	.	.	138	93	.
Radiant HD	96	.	.	.	.	113	100	.
Rambler	105	.	.	.	.	93	96	.
Rangelander	109	.	.	.	.	92	96	.
TS-3025	94	.	.	.	.	107	100	.
TS-4002	103	.	.	.	.	109	96	.
VC 09101	104	.	.	.	.	116	96	.
VC 09102	91	.	.	.	.	127	99	.
VT 09001	122	.	.	.	.	121	105	.
VT 09002	96	.	.	.	.	122	94	.
VT 09003	111	.	.	.	.	135	94	.
Cuts	2	.	.	.	.	3	3	.
CV (%)	8.7	.	.	.	.	7.3	7.7	.
Beaver (kg/ha)	8,413	.	.	.	.	9,780	11,182	.

Summary WFT 2009 Alfalfa - Saskatchewan

Cultivar	Cultivar Mean Forage Yield Summary (kg/ha)											
	1			2			3			Irrigation		
	Swift Current			Saskatoon			Melfort			Outlook		
	2010	2011	2012	2010	2011	2012	2010	2011	2012	2010	2011	2012
Beaver	9,749	8,973	.	9,932	9,308	.	14,084	12,543	.	11,965	15,107	.
AC Blue J	9,247	9,423	.	9,803	10,520	.	14,032	12,587	.	13,212	17,613	.
L333HD	9,344	9,247	.	10,216	12,037	.	14,563	13,347	.	10,630	17,378	.
NS09-MF01	.	.	.	10,910	11,933	.	13,381	12,496	.	12,794	17,310	.
NS09-ST01	.	.	.	9,629	10,980	.	13,564	12,580	.	12,018	18,063	.
PC 09050	8,278	8,923	.	9,940	11,138	.	11,959	10,929	.	11,770	18,661	.
PC 09051	8,691	10,555	.	10,773	10,822	.	12,713	12,261	.	12,021	18,086	.
PC 09070	9,185	8,368	.	9,401	10,373	.	12,009	11,178	.	9,955	17,764	.
PC 09080	9,000	9,277	.	9,552	10,791	.	13,178	11,598	.	12,336	17,679	.
PC 09081	9,283	9,640	.	9,605	12,739	.	13,501	11,597	.	12,435	18,827	.
PC 09082	8,592	9,418	.	10,547	11,253	.	12,978	12,144	.	12,795	18,342	.
PF 09010	9,343	9,841	.	10,243	10,959	.	13,163	12,059	.	11,529	16,634	.
Radiant HD	9,210	10,310	.	9,869	11,395	.	13,029	12,329	.	12,792	17,839	.
Rambler	10,158	9,865	.	10,514	8,428	.	13,541	12,611	.	10,095	12,612	.
Rangelander	10,624	10,132	.	8,790	8,582	.	13,806	12,841	.	10,889	12,281	.
TS-3025	8,465	9,856	.	8,903	10,695	.	13,140	11,893	.	12,260	17,560	.
TS-4002	7,966	8,807	.	8,954	10,528	.	13,792	12,494	.	10,832	17,568	.
VC 09101	8,577	9,129	.	8,909	11,486	.	13,725	12,653	.	11,957	18,599	.
VC 09102	9,083	9,339	.	11,001	10,646	.	12,293	12,107	.	11,947	17,336	.
VT 09001	9,837	9,358	.	9,725	11,449	.	13,746	12,358	.	12,681	17,148	.
VT 09002	7,975	7,361	.	9,505	10,896	.	14,426	11,870	.	13,316	16,974	.
VT 09003	9,291	8,996	.	10,123	11,064	.	13,046	12,508	.	12,255	17,388	.
Cuts	2	2	.	2	2	.	2	2	.	2	3	.
CV (%)	11.8	10.8	.	11.1	8.4	.	11.3	7.9	.	12.7	11.6	.
Trial Mean (kg/ha)	9,095	9,341	.	9,857	10,819	.	13,349	12,227	.	11,931	17,126	.

Summary WFT 2009 Alfalfa - Saskatchewan

Cultivar	Forage Yield as % of Beaver											
	1			2			3			Irrigation		
	Swift Current			Saskatoon			Melfort			Outlook		
	2010	2011	2012	2010	2011	2012	2010	2011	2012	2010	2011	2012
Beaver	100	100	.	100	100	.	100	100	.	100	100	.
AC Blue J	95	105	.	99	113	.	100	100	.	110	117	.
L333HD	96	103	.	103	129	.	103	106	.	89	115	.
NS09-MF01	.	.	.	110	128	.	95	100	.	107	115	.
NS09-ST01	.	.	.	97	118	.	96	100	.	100	120	.
PC 09050	85	99	.	100	120	.	85	87	.	98	124	.
PC 09051	89	118	.	108	116	.	90	98	.	100	120	.
PC 09070	94	93	.	95	111	.	85	89	.	83	118	.
PC 09080	92	103	.	96	116	.	94	92	.	103	117	.
PC 09081	95	107	.	97	137	.	96	92	.	104	125	.
PC 09082	88	105	.	106	121	.	92	97	.	107	121	.
PF 09010	96	110	.	103	118	.	93	96	.	96	110	.
Radiant HD	94	115	.	99	122	.	93	98	.	107	118	.
Rambler	104	110	.	106	91	.	96	101	.	84	83	.
Rangelander	109	113	.	89	92	.	98	102	.	91	81	.
TS-3025	87	110	.	90	115	.	93	95	.	102	116	.
TS-4002	82	98	.	90	113	.	98	100	.	91	116	.
VC 09101	88	102	.	90	123	.	97	101	.	100	123	.
VC 09102	93	104	.	111	114	.	87	97	.	100	115	.
VT 09001	101	104	.	98	123	.	98	99	.	106	114	.
VT 09002	82	82	.	96	117	.	102	95	.	111	112	.
VT 09003	95	100	.	102	119	.	93	100	.	102	115	.
Cuts	2	2	.	2	2	.	2	2	.	2	3	.
CV (%)	11.8	10.8	.	11.1	8.4	.	11.3	7.9	.	12.7	11.6	.
Beaver (kg/ha)	9,749	8,973	.	9,932	9,308	.	14,084	12,543	.	11,965	15,107	.

Summary WFT 2009 Alfalfa - Manitoba

Cultivar	Cultivar Mean Forage Yield Summary (kg/ha)											
	3											
	Arborg			Carberry			Rosebank			Kelburn		
	2010	2011	2012	2011	2012	2013	2010	2011	2012	2010	2011	2012
Beaver	.	9,120	.	11,756	.	.	13,514	.	.	.	7,231	.
AC Blue J	.	9,317	.	12,703	.	.	14,386	.	.	.	6,482	.
L333HD	.	8,896	.	11,768	.	.	14,348	.	.	.	7,010	.
NS09-MF01	.	9,582	.	.	.	.	.	.	.	.	5,765	.
NS09-ST01	.	9,184	.	.	.	.	.	.	.	.	6,571	.
PC 09050	.	9,158	.	11,698	.	.	14,071	.	.	.	6,623	.
PC 09051	.	9,353	.	12,342	.	.	13,564	.	.	.	6,965	.
PC 09070	.	8,814	.	11,829	.	.	13,400	.	.	.	7,193	.
PC 09080	.	9,157	.	12,704	.	.	14,178	.	.	.	7,071	.
PC 09081	.	9,165	.	11,909	.	.	13,764	.	.	.	6,799	.
PC 09082	.	9,495	.	11,897	.	.	14,005	.	.	.	7,153	.
PF 09010	.	9,268	.	11,106	.	.	11,805	.	.	.	6,577	.
Radiant HD	.	9,654	.	12,326	.	.	14,516	.	.	.	7,318	.
Rambler	.	8,695	.	11,515	.	.	11,526	.	.	.	6,562	.
Rangelander	.	8,587	.	12,048	.	.	11,491	.	.	.	6,699	.
TS-3025	.	9,426	.	11,914	.	.	14,210	.	.	.	6,722	.
TS-4002	.	8,836	.	11,913	.	.	13,436	.	.	.	6,994	.
VC 09101	.	9,254	.	12,221	.	.	13,673	.	.	.	6,386	.
VC 09102	.	8,701	.	11,767	.	.	12,358	.	.	.	5,763	.
VT 09001	.	9,481	.	13,455	.	.	15,429	.	.	.	7,375	.
VT 09002	.	8,996	.	12,385	.	.	13,953	.	.	.	7,026	.
VT 09003	.	8,846	.	12,573	.	.	14,356	.	.	.	7,050	.
Cuts	.	2	.	2	.	.	3	.	.	.	2	.
CV (%)	.	6.3	.	7.3	.	.	8.2	.	.	.	1190.0	.
Trial Mean (kg/ha)	.	9,136	.	12,091	.	.	13,599	.	.	.	6,788	.

Summary WFT 2009 Alfalfa - Manitoba

Cultivar	Forage Yield as % of Beaver											
	3											
	Arborg			Carberry			Rosebank			Kelburn		
	2010	2011	2012	2011	2012	2013	2010	2011	2012	2010	2011	2012
Beaver	.	100	.	100	.	.	100	.	.	.	100	.
AC Blue J	.	102	.	108	.	.	106	.	.	.	90	.
L333HD	.	98	.	100	.	.	106	.	.	.	97	.
NS09-MF01	.	105	.	.	.	.	.	.	.	.	80	.
NS09-ST01	.	101	.	.	.	.	.	.	.	.	91	.
PC 09050	.	100	.	100	.	.	104	.	.	.	92	.
PC 09051	.	103	.	105	.	.	100	.	.	.	96	.
PC 09070	.	97	.	101	.	.	99	.	.	.	99	.
PC 09080	.	100	.	108	.	.	105	.	.	.	98	.
PC 09081	.	100	.	101	.	.	102	.	.	.	94	.
PC 09082	.	104	.	101	.	.	104	.	.	.	99	.
PF 09010	.	102	.	94	.	.	87	.	.	.	91	.
Radiant HD	.	106	.	105	.	.	107	.	.	.	101	.
Rambler	.	95	.	98	.	.	85	.	.	.	91	.
Rangelander	.	94	.	102	.	.	85	.	.	.	93	.
TS-3025	.	103	.	101	.	.	105	.	.	.	93	.
TS-4002	.	97	.	101	.	.	99	.	.	.	97	.
VC 09101	.	101	.	104	.	.	101	.	.	.	88	.
VC 09102	.	95	.	100	.	.	91	.	.	.	80	.
VT 09001	.	104	.	114	.	.	114	.	.	.	102	.
VT 09002	.	99	.	105	.	.	103	.	.	.	97	.
VT 09003	.	97	.	107	.	.	106	.	.	.	97	.
Cuts	.	2	.	2	.	.	3	.	.	.	2	.
CV (%)	.	6.3	.	7.3	.	.	8.2	.	.	.	1190.0	.
Beaver (kg/ha)	.	9,120	.	11,756	.	.	13,514	.	.	.	7,231	.

Summary WFT 2009 Orchardgrass - Alberta

Cultivar	Cultivar Mean Forage Yield Summary (kg/ha)											
	3			4						Irrigation		
	Vegreville			Fort Kent			Westlock			Lethbridge		
	2010	2011	2012	2010	2011	2012	2010	2011	2012	2010	2011	2012
Kay	4,881	.	.	.	9,821	.	.	.	.	7,788	6,568	.
NS09-OG-01	4,348	.	.	.	10,157	.	.	.	.	8,354	6,971	.
OG426	5,444	.	.	.	10,611	.	.	.	.	9,718	6,620	.
96 OG-2	3,932	.	.	.	7,827	.	.	.	.	7,872	6,454	.
Cuts	1	.	.	.	2	.	.	.	.	3	1	.
CV (%)	58.1	.	.	.	10.4	.	.	.	.	11.4	13.7	.
Trial Mean (kg/ha)	4,651	.	.	.	9,604	.	.	.	.	8,433	6,653	.

Summary WFT 2009 Orchardgrass - Alberta

Cultivar	Forage Yield as % of Kay											
	3			4						Irrigation		
	Vegreville			Fort Kent			Westlock			Lethbridge		
	2010	2011	2012	2010	2011	2012	2010	2011	2012	2010	2011	2012
Kay	100	.	.	.	100	.	.	.	.	100	100	.
NS09-OG-01	89	.	.	.	103	.	.	.	.	107	106	.
OG426	112	.	.	.	108	.	.	.	.	125	101	.
96 OG-2	81	.	.	.	80	.	.	.	.	101	98	.
Cuts	1	.	.	.	2	.	.	.	.	3	1	.
CV (%)	58.1	.	.	.	10.4	.	.	.	.	11.4	13.7	.
Beaver (kg/ha)	4,881	.	.	.	9,821	.	.	.	.	7,788	6,568	.

Summary WFT 2009 Orchardgrass - Saskatchewan

Cultivar	Cultivar Mean Forage Yield Summary (kg/ha)											
	1			2			3			Irrigation		
	Swift Current			Saskatoon			Melfort			Outlook		
	2010	2011	2012	2010	2011	2012	2010	2011	2012	2010	2011	2012
Kay	.	.	.	6,615	6,220	.	4,144	7,195	.	9,653	8,617	.
NS09-OG-01	.	.	.	8,028	5,931	.	4,482	7,096	.	9,885	9,312	.
OG426	.	.	.	10,063	5,903	.	4,350	7,273	.	9,205	7,493	.
96 OG-2	.	.	.	6,195	5,415	.	3,719	6,667	.	8,326	6,981	.
Cuts	.	.	.	1	1	.	2	2	.	2	2	.
CV (%)	.	.	.	8.8	6.0	.	7.6	6.6	.	14.3	14.6	.
Trial Mean (kg/ha)	.	.	.	7,725	5,867	.	4,174	7,058	.	9,267	8,101	.

Summary WFT 2009 Orchardgrass - Saskatchewan

Cultivar	Forage Yield as % of Kay											
	1			2			3			Irrigation		
	Swift Current			Saskatoon			Melfort			Outlook		
	2010	2011	2012	2010	2011	2012	2010	2011	2012	2010	2011	2012
Kay	.	.	.	100	100	.	100	100	.	100	100	.
NS09-OG-01	.	.	.	121	95	.	108	99	.	102	108	.
OG426	.	.	.	152	95	.	105	101	.	95	87	.
96 OG-2	.	.	.	94	87	.	90	93	.	86	81	.
Cuts	.	.	.	1	1	.	2	2	.	2	2	.
CV (%)	.	.	.	8.8	6.0	.	7.6	6.6	.	14.3	14.6	.
Beaver (kg/ha)	.	.	.	6,615	6,220	.	4,144	7,195	.	9,653	8,617	.

Summary WFT 2009 Orchardgrass - Manitoba

Cultivar	Cultivar Mean Forage Yield Summary (kg/ha)											
	3											
	Arborg			Carberry			Rosebank			Kelburn		
	2010	2011	2012	2011	2012	2013	2010	2011	2012	2011	2012	2013
Kay	.	4,705	.	5,469	.	.	13,080	6,762	.	1,438	.	.
NS09-OG-01	.	4,398	.	5,381	.	.	15,898	7,176	.	1,560	.	.
OG426	.	3,936	.	5,064	.	.	15,567	7,030	.	1,292	.	.
96 OG-2	.	4,200	.	5,415	.	.	14,109	6,587	.	1,727	.	.
Cuts	.	1	.	1	.	.	2	1	.	1	.	.
CV (%)	.	18.0	.	10.4	.	.	10.3	20.8	.	22.5	.	.
Trial Mean (kg/ha)	.	4,310	.	5,332	.	.	14,664	6,889	.	1,504	.	.

Summary WFT 2009 Orchardgrass - Manitoba

Cultivar	Forage Yield as % of Kay											
	3											
	Arborg			Carberry			Rosebank			Kelburn		
	2010	2011	2012	2011	2012	2013	2010	2011	2012	2011	2012	2013
Kay	.	100	.	100	.	.	100	100	.	100	.	.
NS09-OG-01	.	93	.	98	.	.	122	106	.	108	.	.
OG426	.	84	.	93	.	.	119	104	.	90	.	.
96 OG-2	.	89	.	99	.	.	108	97	.	120	.	.
Cuts	.	1	.	1	.	.	2	1	.	1	.	.
CV (%)	.	18.0	.	10.4	.	.	10.3	20.8	.	22.5	.	.
Beaver (kg/ha)	.	4,705	.	5,469	.	.	13,080	6,762	.	1,438	.	.

Summary WFT 2009 Red Clover - Alberta

Cultivar	Cultivar Mean Forage Yield Summary (kg/ha)											
	3			4						Irrigation		
	Vegreville			Fort Kent			Westlock			Lethbridge		
	2010	2011	2012	2010	2011	2012	2010	2011	2012	2010	2011	2012
Altaswede	12,994	.	.	.	.	9,784	6,260	.
Starfire	7,183	.	.	.	.	13,755	6,143	.

Cuts	.	.	.	.	1	.	.	.	.	3	2	.
CV (%)	.	.	.	.	10.1	.	.	.	.	13.2	6.9	.
Trial Mean (kg/ha)	.	.	.	.	10,089	.	.	.	.	11,770	6,202	.

Summary WFT 2009 Red Clover - Alberta

Cultivar	Forage Yield as % of Altaswede											
	3			4						Irrigation		
	Vegreville			Fort Kent			Westlock			Lethbridge		
	2010	2011	2012	2010	2011	2012	2010	2011	2012	2010	2011	2012
Altaswede	100	.	.	.	.	100	100	.
Starfire	55	.	.	.	.	141	98	.

Cuts	.	.	.	.	1	.	.	.	.	3	2	.
CV (%)	.	.	.	.	10.1	.	.	.	.	13.2	6.9	.
Beaver (kg/ha)	.	.	.	.	12,994	.	.	.	.	9,784	6,260	.

Summary WFT 2009 Red Clover - Saskatchewan

Cultivar	Cultivar Mean Forage Yield Summary (kg/ha)											
	1			2			3			Irrigation		
	Swift Current			Saskatoon			Melfort			Outlook		
	2010	2011	2012	2010	2011	2012	2010	2011	2012	2010	2011	2012
Altaswede	3,405	6,197	.	5,683	12,221	.	13,131	10,896	.	11,025	12,473	.
Starfire	6,178	6,290	.	4,745	10,096	.	12,482	8,853	.	13,057	11,491	.

Cuts	2	2	.	2	2	.	2	2	.	2	2	.
CV (%)	6.6	.	.	14.7	5.1	.	8.4	8.1	.	4.4	11.1	.
Trial Mean (kg/ha)	4,792	6,244	.	5,214	11,159	.	12,807	9,875	.	12,041	11,982	.

Summary WFT 2009 Red Clover - Saskatchewan

Cultivar	Forage Yield as % of Altaswede											
	1			2			3			Irrigation		
	Swift Current			Saskatoon			Melfort			Outlook		
	2010	2011	2012	2010	2011	2012	2010	2011	2012	2010	2011	2012
Altaswede	100	100	.	100	100	.	100	100	.	100	100	.
Starfire	181	102	.	83	83	.	95	81	.	118	92	.

Cuts	2	2	.	2	2	.	2	2	.	2	2	.
CV (%)	6.6	.	.	14.7	5.1	.	8.4	8.1	.	4.4	11.1	.
Beaver (kg/ha)	3,405	6,197	.	5,683	12,221	.	13,131	10,896	.	11,025	12,473	.

Summary WFT 2009 Red Clover - Manitoba

Cultivar	Cultivar Mean Forage Yield Summary (kg/ha)											
	3											
	Arborg			Carberry			Rosebank			Kelburn		
	2010	2011	2012	2011	2012	2013	2010	2011	2012	2011	2012	2013
Altaswede	.	5,431	.	7,404	.	.	9,521	6,246	.	6,674	.	.
Starfire	.	8,159	.	10,888	.	.	11,671	8,227	.	5,325	.	.

Cuts	.	2	.	2	.	.	2	1	.	1	.	.
CV (%)	.	8.6	.	.	.	.	3.9	6.5	.	7.3	.	.
Trial Mean (kg/ha)	.	6,795	.	9,146	.	.	10,596	7,237	.	6,000	.	.

Summary WFT 2009 Red Clover - Manitoba

Cultivar	Forage Yield as % of Altaswede											
	3											
	Arborg			Carberry			Rosebank			Kelburn		
	2010	2011	2012	2011	2012	2013	2010	2011	2012	2011	2012	2013
Altaswede	.	100	.	100	.	.	100	100	.	100	.	.
Starfire	.	150	.	147	.	.	123	132	.	80	.	.

Cuts	.	2	.	2	.	.	2	1	.	1	.	.
CV (%)	.	8.6	.	.	.	.	3.9	6.5	.	7.3	.	.
Beaver (kg/ha)	.	5,431	.	7,404	.	.	9,521	6,246	.	6,674	.	.

Summary WFT 2009 Sainfoin - Alberta

Cultivar	Cultivar Mean Forage Yield Summary (kg/ha)											
	3			4						Irrigation		
	Vegreville			Fort Kent			Westlock			Lethbridge		
	2010	2011	2012	2010	2011	2012	2010	2011	2012	2010	2011	2012
Nova	2,945	.	.	.	.	13,506	6,743	.
LRC05-3900	2,041	.	.	.	.	10,791	7,776	.
LRC05-3901	2,409	.	.	.	.	11,809	8,086	.
LRC05-3902	2,378	.	.	.	.	11,079	7,982	.
Cuts	1	.	.	.	.	3	2	.
CV (%)	14.8	.	.	.	.	9.9	8.6	.
Trial Mean (kg/ha)	2,443	.	.	.	.	11,796	7,647	.

Summary WFT 2009 Sainfoin - Alberta

Cultivar	Forage Yield as % of Nova											
	3			4						Irrigation		
	Vegreville			Fort Kent			Westlock			Lethbridge		
	2010	2011	2012	2010	2011	2012	2010	2011	2012	2010	2011	2012
Nova	100	.	.	.	.	100	100	.
LRC05-3900	69	.	.	.	.	80	115	.
LRC05-3901	82	.	.	.	.	87	120	.
LRC05-3902	81	.	.	.	.	82	118	.
Cuts	1	.	.	.	.	3	2	.
CV (%)	14.8	.	.	.	.	9.9	8.6	.
Beaver (kg/ha)	2,945	.	.	.	.	13,506	6,743	.

Summary WFT 2009 Sainfoin - Saskatchewan

Cultivar	Cultivar Mean Forage Yield Summary (kg/ha)											
	1			2			3			Irrigation		
	Swift Current			Saskatoon			Melfort			Outlook		
	2010	2011	2012	2010	2011	2012	2010	2011	2012	2010	2011	2012
Nova	1,830	3,634	.	7,592	9,182	.	6,678	.	.	7,783	5,597	.
LRC05-3900	1,133	3,095	.	7,053	9,083	.	6,376	.	.	7,396	5,900	.
LRC05-3901	1,238	2,950	.	5,514	9,694	.	5,654	.	.	7,767	5,860	.
LRC05-3902	1,215	3,014	.	6,190	8,873	.	6,143	.	.	7,556	6,160	.
Cuts	2	2	.	2	2	.	2	.	.	2	2	.
CV (%)	10.2	10.7	.	20.7	9.0	.	14.2	.	.	11.6	6.3	.
Trial Mean (kg/ha)	1,354	3,173	.	6,587	9,208	.	6,213	.	.	7,626	5,879	.

Summary WFT 2009 Sainfoin - Saskatchewan

Cultivar	Forage Yield as % of Nova											
	1			2			3			Irrigation		
	Swift Current			Saskatoon			Melfort			Outlook		
	2010	2011	2012	2010	2011	2012	2010	2011	2012	2010	2011	2012
Nova	100	100	.	100	100	.	100	.	.	100	100	.
LRC05-3900	62	85	.	93	99	.	95	.	.	95	105	.
LRC05-3901	68	81	.	73	106	.	85	.	.	100	105	.
LRC05-3902	66	83	.	82	97	.	92	.	.	97	110	.
Cuts	2	2	.	2	2	.	2	.	.	2	2	.
CV (%)	10.2	10.7	.	20.7	9.0	.	14.2	.	.	11.6	6.3	.
Beaver (kg/ha)	1,830	3,634	.	7,592	9,182	.	6,678	.	.	7,783	5,597	.

Summary WFT 2009 Sainfoin - Manitoba

Cultivar	Cultivar Mean Forage Yield Summary (kg/ha)											
	3											
	Arborg			Carberry			Rosebank			Kelburn		
	2010	2011	2012	2011	2012	2013	2010	2011	2012	2011	2012	2013
Nova	.	3,470	.	4,017	.	.	10,452	3,335	.	3,023	.	.
LRC05-3900	.	3,423	.	4,520	.	.	9,721	2,511	.	2,364	.	.
LRC05-3901	.	2,927	.	4,239	.	.	9,604	3,374	.	1,906	.	.
LRC05-3902	.	3,436	.	3,702	.	.	9,534	2,439	.	2,827	.	.
Cuts	.	1	.	1	.	.	2	1	.	1	.	.
CV (%)	.	15.0	.	11.3	.	.	7.2	42.4	.	24.4	.	.
Trial Mean (kg/ha)	.	3,314	.	4,120	.	.	9,828	2,915	.	2,530	.	.

Summary WFT 2009 Sainfoin - Manitoba

Cultivar	Forage Yield as % of Nova											
	3											
	Arborg			Carberry			Rosebank			Kelburn		
	2010	2011	2012	2011	2012	2013	2010	2011	2012	2011	2012	2013
Nova	.	100	.	100	.	.	100	100	.	100	.	.
LRC05-3900	.	99	.	113	.	.	93	75	.	78	.	.
LRC05-3901	.	84	.	106	.	.	92	101	.	63	.	.
LRC05-3902	.	99	.	92	.	.	91	73	.	94	.	.
Cuts	.	1	.	1	.	.	2	1	.	1	.	.
CV (%)	.	15.0	.	11.3	.	.	7.2	42.4	.	24.4	.	.
Beaver (kg/ha)	.	3,470	.	4,017	.	.	10,452	3,335	.	3,023	.	.

Application for Entry into Registration Trials

1. Species (Alfalfa, *Medicago sativa*) :

2. Experimental Name or Number :

3. Variety Name (if named) :

	Name	Address	E-mail
Applicant			
Breeder			
Who to Invoice			

5. Seed Origin: Outline the procedure for producing the seed that has been submitted; include the location, year and procedure for producing each synthetic seed generation.

6. Brief Variety Description

7. Maturity: Indicate the relative maturity (early, medium, late) if applicable.

8. Specialty Traits: Other noteworthy traits of the entry, if applicable.

Submit 2kg seed

9. Check locations where you would like the seed tested:

All Locations - or

Alberta

- Fort Kent
- Lethbridge
- Vegreville
- Westlock

Saskatchewan

- Melfort
- Outlook
- Saskatoon
- Swift Current

Manitoba

- Arborg
- Rosebank
- Carberry
- Glenlea

The fee for all 12 sites is \$900/entry/year (\$75/entry/location). Companies will be invoiced annually for each year of the test (establishment year plus three harvest years). If reseeding is required at any site, companies will not be invoiced for those sites in the year of reseeding.

Note:

Seed entering Canada from the U.S.A. must have a purity and germination certificate from a lab using the official Canadian Methods and Procedures for Testing Seed. Seed sent without this certificate will not be accepted.

Send applications for entries and seed (2kg) to:

DOUG FRIEBEL
Agriculture & Agri-Food Canada
5403 – 1st Ave. S.
Box 3000 Main
LETHBRIDGE, AB T1J 4B1
Phone: 403-317-2151 ext 4227
Cell: 403-894-0315
Fax: 403-382-3156
E-mail: doug.friebel@agr.gc.ca

Deadlines:

Entry Form:
- February 15

Seed:
- March 15

Submit 2kg seed

Western Forage Testing Coordination Committee
Forage Trial Assessment Form

Location
Year of Seeding
Species
Assessors
Decision:

_____ **Accept** _____ **Reject** _____ **Conditionally Accept**

Comments and Conditions of Acceptance: