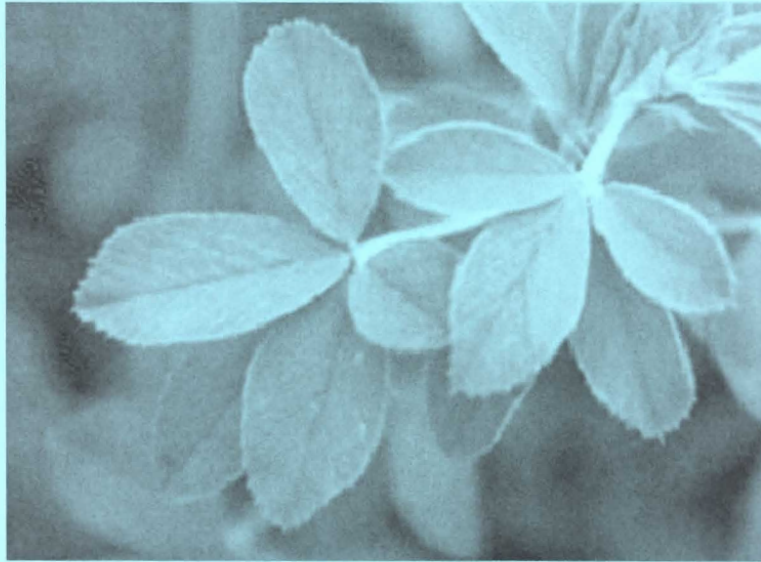


ONTARIO FORAGE CROP INVESTIGATIONS



2012 REPORT ON FIELD TRIALS OF VARIETIES AND MIXTURES

- Guelph
- Kemptville
- New Liskeard
- Thunder Bay

REPORT ON FORAGE CROPS TRIALS

ONTARIO FORAGE CROP COMMITTEE

Compiled by: Donna Hancock

**Joan McKinlay
Committee Chair
Ontario Forage Crop Committee**

Conducted co-operatively by:

**University of Guelph
Ontario Ministry of Agriculture and Food**

This is the 2012 Ontario Forage Crop Investigations Report. The information contained here was published as submitted by the crop coordinators. Unless otherwise indicated, the test arrangement is a randomized complete block with four replicates. Names and addresses of each crop coordinator are provided to facilitate further inquiries if such a need arises.

Not For Publication: This is a progress report of co-operative investigations containing data, the interpretation of which may be modified with additional experimentation. Therefore, publication of any data or statements herein should not be made without prior written approval of the organization and personnel concerned.

**ONTARIO FORAGE CROP COMMITTEE
VARIETY SUB-COMMITTEE**

**EXECUTIVE and
COORDINATORS for 2012**

Contact information

Joan McKinlay
Chair

R.R. # 2 Ravenna, ON, N0H 2E0
Phone: (519)- 599-6236
Email: jmckinlay@bmts.com

Mr. David Morris
Secretary

109 Maple Ridge Road, R.R. #2
Owen Sound, Ontario N4K 5N4
Telephone: 519-376-1304
Fax: 519-376-9773
davidtmorris@rogers.com

Dr. Steve Bowley
Species & Data Coordinator

Plant Agriculture Dept.,
University of Guelph
Phone: (519) 824-4120 Ext. 58704
Fax: (519)-826-0401
Email: sbowley@uoguelph.ca

Testing Locations

Thunder Bay (807) 475-1373
New Liskeard (705) 647-8525
x226
Kemptville (613) 258-8336
x61340
Elora (Guelph) (519) 824-4120
x58704

Name of Cooperator

Mr. Tarlok Sahota
Mr. John Kobler
Ms. Wendy Asbil
Dr. S. R. Bowley

Contents

Introduction	
Coordinators, names, addresses	2
Alfalfa	
Yield data	4
Performance data.....	20
Timothy	
Late (Climax) harvest management.....	29
Bromegrass	
Yield data.....	35
Orchardgrass	
Yield data.....	37
Tall Fescue	
Yield data.....	41
Perennial Ryegrass	
Yield data.....	43
Heading dates.....	47

ONTARIO
 Elora
 Alfalfa Reg A-3cut
 Expt. 2901
 Seeded 2011

Code	Cultivar	2012 (kg/ha)			
		Cut 1	Cut 2	Cut 3	Tot12
1432	OAC_SUPERIOR	5130	2622	2463	10324
1577	STARBUCK	4836	2160	2217	9148
1579	ASCEND	4953	2424	2293	9657
1648	ACTIS	4977	2600	2277	9926
1697	CW_064004	4531	2465	2337	9338
1699	CW_054004	5199	2658	2351	10171
1720	55V50	5423	2478	2277	10177
1721	55H94	4582	2612	2192	9298
1722	WL354HQ	4899	2514	2276	9702
1723	PS11A01	4706	2492	2278	9470
1724	PS11A02	5066	2507	2271	9842
1725	REBOUND_5_0	4817	2267	2167	9283
1726	DSA01-T	5446	2646	2552	10626
1727	DSA05-BR	5606	2505	2357	10573
1728	CW055005	4880	2452	2226	9551
1729	CW044019	4870	2329	2289	9496
1730	CFL0802	4833	2291	2190	9323
1732	CFL1101	5026	2619	2300	9967
1733	CFL1102	4901	2718	2172	9694
1734	AKORI	5095	2534	2321	9912
1735	QS-NR	4823	2401	2347	9570
1736	DSB-18-T	5658	2665	2532	10898
1737	LS603	4708	2445	2172	9283
1738	CW065006	4790	2599	2327	9626
1739	PRIZE	4832	2112	2142	9171
900	Mean	4983	2485	2293	9761
901	CV	3.8	8.8	6.6	4.7
905	MCV	4.5	10.3	7.7	5.5
902	LSD	223.7	257.0	177.6	539.9
906	LSR	19.9	42.4	43.3	30.8
907	Pr>F(Trts)	0.0000	0.0106	0.0156	0.0000
908	R_square	79.7	71.8	84.8	78.0

RCBD arrangement, 4 blocks {1234}
 Nearest-neighbour covariance adjusted.

ONTARIO
 New Liskeard
 Alfalfa Registration C
 Expt. 1101
 Seeded 2011

Code	Cultivar	2012 (kg/ha)		
		Cut 1	Cut 2	Tot12
1432	OAC SUPERIOR	6227	3552	9844
1577	STARBUCK	6190	3522	9690
1720	55V50	7203	3776	10992
1721	55H94	5885	3512	9371
1723	PS11A01	6052	3189	9267
1724	PS11A02	6109	3346	9442
1725	REBOUND_5_0	5771	3239	8964
1726	DSA01-T	7168	3894	11104
1727	DSA05-BR	7241	3983	11190
1728	CW055005	5684	3276	8898
1729	CW044019	6058	3556	9610
1735	QS-NR	6098	3189	9321
1736	DSB-18-T	7293	4048	11367
1737	LS603	5722	3275	8998
900	Mean	6336	3525	9861
901	CV	7.4	6.5	6.9
905	MCV	8.9	7.8	8.2
902	LSD	564.0	275.8	812.1
906	LSR	35.0	32.1	32.9
907	Pr>F(Trts)	0.0000	0.0000	0.0000
908	R_square	71.6	78.0	72.7

RCBD arrangement, 4 blocks {1234}
 Nearest-neighbour covariance adjusted

ONTARIO
Thunder Bay
Alfalfa Reg A-2cut
Seeded 2011

DRY MATTER YIELD (kg/ha)				
Code	Cultivar	1st CUT	2nd CUT	TOTAL
1432	OAC Superior	2253	1155	3408
1721	55H94	2314	1388	3702
1720	55V50	2422	1567	3989
1577	Starbuck	2296	1455	3751
	MEAN	2321	1391	3712
	C.V. (%)	15	13	13
	PR>F	0.9163	0.0629	0.4501
	LSD (0.05)	NS	297	NS

ONTARIO
 Elora
 Alfalfa Reg E
 Expt. 2902
 Seeded 2011

Code	Cultivar	2012 (kg/ha)				Tot12
		Cut 1	Cut 2	Cut 3	Cut 4	
1432	OAC_SUPERIOR	3146	1641	942	766	6396
1577	STARBUCK	2947	1461	1031	788	6175
1648	ACTIS	3078	1808	1030	866	6841
1697	CW_064004	2934	1825	1086	879	6731
1699	CW_054004	3211	1790	828	810	6599
1720	55V50	3213	1756	1112	812	7000
1721	55H94	2749	1825	1031	781	6459
1722	WL354HQ	3099	1716	1035	772	6628
1730	CFL0802	3016	1498	902	791	6261
1734	AKORI	3280	1674	950	831	6634
1738	CW065006	3273	1803	1102	835	7001
900	Mean	3086	1709	1004	812	6611
901	CV	7.4	7.1	21.3	12.2	5.8
905	MCV	8.9	8.5	25.6	14.7	6.9
902	LSD	273.3	145.6	257.4	118.9	458.6
906	LSR	51.4	40.0	90.7	105.5	55.5
907	Pr>F(Trts)	0.0802	0.0032	0.8386	0.8375	0.1184
908	R_square	63.8	67.4	75.5	88.7	74.4

RCBD arrangement, 4 blocks {1234}
 Nearest-neighbour covariance adjusted.

ONTARIO
 Kemptville
 Alfalfa Registration F Intensive (4-cut management)
 Seeded 2011

Variety	Code	Cut 1 2012 Yield	Cut 2 (kg/ha)	Cut 3	Total
OAC_SUPERIOR	1432	5791	2387	975	9154
STARBUCK	1577	4922	2421	803	8146
ACTIS	1648	4209	2312	587	7109
CW064004	1697	4269	1786	354	6409
CW054004	1699	4264	1829	414	6506
55V50	1720	4935	2030	684	7650
55H94	1721	4450	1358	376	6184
REBOUND_50	1725	4830	1667	581	7078
CFL0802	1730	3811	1751	494	6056
AKORI	1734	5276	2407	804	8488
CW065006	1738	3869	1910	433	6212
Mean		4602	1987	591	7181
CV		10.1	18.3	36.0	12.2
LSD		685	535	314	1287

Drought prevented a fourth cut to be harvested.

ONTARIO
 New Liskeard
 Alfalfa Reg G
 Expt. 1102
 Seeded 2011

Code	Cultivar	2012 (kg/ha)		
		Cut 1	Cut 2	Tot12
1432	OAC SUPERIOR	7066	4064	10903
1577	STARBUCK	6402	3580	9997
1720	55V50	6909	3834	10687
1721	55H94	6353	3946	10318
1722	WL354HQ	6349	3520	10118
900	Mean	6616	3789	10405
901	CV	5.1	4.5	2.7
905	MCV	6.5	5.7	3.5
902	LSD	430.5	217.2	361.3
906	LSR	60.1	39.9	39.9
907	Pr>F (Trts)	0.0694	0.0952	0.0179
908	R_square	88.3	86.9	95.3

RCBD arrangement, 4 blocks {1234}
 Nearest-neighbour covariance adjusted.

ONTARIO
 Thunder Bay
 Alfalfa Reg A-3cut
 Seeded 2011

Code	Cultivar	DRY MATTER YIELD (kg/ha)			TOTAL
		1st CUT	2nd CUT	3rd CUT	
1432	OAC Superior	2591	1500	1239	5330
1721	55H94	2812	1716	1493	6021
1720	55V50	3024	1648	1565	6237
1577	Starbuck	2983	1632	1486	6101
	MEAN	2853	1624	1446	5922
	C.V. (%)	14	16	12	12
	PR>F	0.4213	6907	0.0991	0.3054
	LSD (0.05)	NS	NS	271	NS

ONTARIO
 Elora
 Alfalfa Registration A
 Expt. 2886
 Seeded 2010

Code	Cultivar	2012 (kg/ha)			Tot12	Tot11	2yrTot
		Cut 1	Cut 2	Cut 3			
1432	OAC_SUPERIOR	3477	1584	1465	6473	11595	18171
1525	FORECAST_100	3310	1388	1385	6053	11205	17324
1577	STARBUCK	3379	1381	1334	6110	11698	17783
1654	4020MF	3877	1761	1593	7200	12214	19453
1667	54Q32	3456	1649	1397	6486	11462	17918
1683	4030	3758	1538	1461	6754	12568	19286
1684	4010	3777	1686	1526	7041	12770	19794
1685	CFL1004	3009	1342	1356	5691	10863	16574
1686	CFL1005	3105	1221	1141	5449	10904	16267
1687	CFL1006	3280	1509	1242	6006	11502	17487
1688	CFL1001	3536	1637	1458	6650	11891	18513
1689	CFL1002	3815	1875	1566	7276	12573	19981
1690	CFL1003	3660	1736	1588	6960	12762	19729
1691	CFL1008	3393	1589	1417	6398	11463	17893
1692	CFL1009	3482	2004	1435	6897	11319	18229
1693	CFL1007	3710	1894	1502	7113	11753	18894
1694	MSSUNTRA-A21	3416	1409	1501	6255	12419	18730
1695	PROLIFIC_II	3140	1208	1194	5512	11307	16855
1696	4A415	3342	1490	1342	6188	11857	17949
1697	CW_064004	3439	1825	1435	6742	11056	17773
1698	CW_23017	3352	1517	1383	6235	11376	17682
1699	CW_054004	3153	1486	1366	5993	10776	16652
1700	QS_6530	3415	1659	1500	6573	11461	17992
1701	QS_5523	3346	1797	1520	6655	11909	18572
1702	QS_4506	3556	1682	1441	6705	12004	18853
1703	AC_DALTON	2963	923	994	4873	10360	15048
1704	LANCER	3076	1411	1242	5796	11780	17631
1705	FSG_420LH	3139	1351	1298	5781	10945	16722
1706	FSG_329	3362	1615	1442	6453	12254	18758
1707	CW053014	3333	1624	1425	6392	11746	18012
1708	CW073012	3176	1483	1394	6080	10811	16877
1709	IML04	3095	1280	1306	5724	11074	16764
1710	SF2202	3282	1261	1361	5895	11707	17701
1711	SF2101	3383	1364	1225	5999	11314	17240
900	Mean	3382	1535	1389	6306	11609	17915
901	CV	8.1	14.5	8.5	8.6	5.4	5.8
905	MCV	9.6	17.1	10.0	10.1	6.4	6.8
902	LSD	324.7	263.1	138.9	639.2	740.1	1224.2
906	LSR	35.5	24.3	23.2	26.6	30.7	24.8
907	Pr>F(Trts)	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
908	R_square	84.7	79.8	71.7	81.3	60.7	74.6

RCBD arrangement, 4 blocks {1234}
 Nearest-neighbour covariance adjusted.

ONTARIO
 New Lisheard
 Alfalfa Reg B
 Expt. 1003
 Seeded 2010

Code	Cultivar	2012 (kg/ha)		Tot12	Tot11	2yrTot
		Cut 1	Cut 2			
1432	OAC SUPERIOR	8776	3203	12016	11894	23862
1525	FORECAST_100	8329	2918	11215	11520	22629
1577	STARBUCK	8020	2946	11014	11393	22438
1667	54Q32	7964	3032	10999	11544	22524
1683	4030	8548	3159	11759	12344	24196
1684	4010	8596	3062	11657	12274	23910
1685	CFL1004	7913	2891	10844	11612	22522
1686	CFL1005	7541	2713	10206	10609	20800
1687	CFL1006	8572	3184	11749	12316	24041
1688	CFL1001	8284	2974	11269	11914	23301
1689	CFL1002	8591	3177	11750	12410	24111
1690	CFL1003	8860	3258	12191	12552	24874
1691	CFL1008	8111	3039	11170	11450	22701
1692	CFL1009	8131	2890	11024	11165	22209
1693	CFL1007	7892	2823	10671	11352	21959
1694	MSSUNTRA-A21	8815	3139	11945	11990	23971
1695	PROLIFIC_II	8610	2996	11627	11878	23488
1696	4A415	8333	3168	11433	12040	23399
1697	CW_064004	8316	2966	11290	11346	22646
1698	CW_23017	7687	2881	10568	10932	21478
1699	CW_054004	7786	2926	10607	11520	21963
1703	AC DALTON	7838	2570	10447	11215	21667
1704	LANCER	8227	2838	11058	11604	22667
1705	FSG_420LH	7887	2668	10583	11414	22016
1706	FSG_329	7985	3174	11168	11696	22877
1707	CW053014	8031	2902	10967	11727	22805
1708	CW073012	7723	2947	10601	11449	21935
1709	IML04	8425	2893	11354	11529	22945
1710	SF2202	8148	3031	11110	11787	22803
1711	SF2101	8154	2839	11006	11533	22572
900	Mean	8203	2974	11177	11667	22844
901	CV	4.7	6.2	4.3	3.5	3.0
905	MCV	5.6	7.3	5.1	4.2	3.5
902	LSD	457.2	217.5	574.1	487.0	799.9
906	LSR	34.7	31.6	28.9	25.1	19.6
907	Pr>F(Trts)	0.0000	0.0000	0.0000	0.0000	0.0000
908	R_square	87.1	75.0	87.3	89.6	92.9

RCBD arrangement, 4 blocks {1234}
 Nearest-neighbour covariance adjusted.

ONTARIO
 Winchester
 Alfalfa Registration A
 Seeded 2010

Variety	Code	2012 Yield (kg/ha)			
		Cut1	Cut2	Cut3	Total
AC_Dalton	1703	6408	1545	1292	9244
CFL1001	1688	5210	2663	2381	10275
CFL1002	1689	5342	2344	2174	9859
CFL1003	1690	6587	2645	3265	12498
CFL1004	1685	5833	2526	1972	10332
CFL1005	1686	4418	1643	1353	7413
CFL1006	1687	6328	2594	2235	11157
CFL1007	1693	5562	2792	2339	10693
CFL1008	1691	5780	2667	3195	11642
CFL1009	1692	5428	3440	3281	12149
CW01073012	1708	5695	2742	2667	11105
CW054004	1699	5881	2953	2951	11785
CW064004	1697	5407	2671	2520	10598
CW23017	1698	5897	2556	2058	10512
CW053014	1707	6806	2374	2058	10070
DS711-BR	1684	5819	2435	2262	10516
DS723	1654	5967	2490	2183	10639
DS812-T	1683	5924	2099	1553	9576
Forecast1001	1525	5471	2140	1753	9365
FSG329	1706	5862	2629	2738	11230
FSG420LH	1705	5353	1824	1869	9046
IML04	1709	6466	1981	1662	10110
Lancer	1704	5752	2131	1531	9414
MSSuntra-A21	1694	6019	2473	2116	10607
OAC_Superior	1432	6160	2515	2386	11062
Prolific_II	1695	5763	2344	2201	10308
QS4506	1702	5667	2500	2266	10433
QS5523	1701	5839	2403	2127	10368
QS6530	1700	6423	2207	2178	10808
SF2202	1710	4831	1942	1827	8600
Starbuck	1577	5441	2016	1695	9153
4A415	1696	5176	2704	1969	9849
54Q32	1667	5322	2461	1991	10087
SF2101	1711	5782	1834	1605	9221
Mean		5754	2391	2166	10286
CV		13.9	19.0	32.0	12.5
LSD		1308	740	1130	2107

ONTARIO
 Thunder Bay
 Alfalfa Registration

Seeded 2010

DRY MATTER YIELD (kg/ha)2012

Code	Cultivar	1st CUT	2nd CUT	3RD CUT	TOTAL
1688	CLF1001	3194	2844	2269	8307
1689	CLF1002	3100	2928	2272	8300
1690	CLF1003	3478	2990	2375	8843
1685	CLF1004	3254	2792	2307	8353
1686	CLF1005	3021	2701	2320	8041
1687	CLF1006	3198	2981	2306	8485
1693	CLF1007	3191	2960	2346	8498
1691	CLF1008	3294	2895	2355	8544
1692	CLF1009	3206	2914	2373	8492
1703	AC_Dalton	3054	2157	1813	7024
1432	OAC_Superior	3215	2499	2038	7752
1710	SF2202	3394	2670	2244	8308
1577	Starbuck	3259	2591	2220	8071
1696	4A415	3098	2762	2258	8118
1667	54Q32	3294	3049	2272	8614
1711	SF2101	3429	2803	2207	8440
	MEAN	3230	2783	2248	8262
	C.V. (%)	9	10	6	7
	PR>F	0.0044	0.6786	0.0	0.0146
	LSD (0.05)	415	388	181	783

ONTARIO
 Elora
 Alfalfa Registration Trial
 Expt. 2872
 Seeded 2009

PERSISTENCE NOTES ONLY IN 2012

Code	Cultivar	2012 (kg/ha)				
		Cut 1	Tot12	Tot11	Tot10	3yrTot
1432	OAC_SUPERIOR	2343	2343	8648	8160	19008
1498	134	2204	2204	8717	7917	18971
1577	STARBUCK	1891	1891	8278	7861	17909
1648	ACTIS	2247	2247	8935	8437	19458
1667	54Q32	2259	2259	8651	8129	19062
1668	4S417	2703	2703	9030	9117	20842
1669	WL353LH	1597	1597	7314	8036	17075
1670	MAGNUM_VI_WET	2396	2396	9470	8731	20607
1671	SHOWDOWN	2399	2399	8621	8908	19911
1672	3010	2026	2026	8670	7806	18584
1673	ADRENALIN	2141	2141	8425	8362	18939
1674	LEGENDAIRY_5	2262	2262	8813	7766	18880
1675	CW_02013	2048	2048	8261	7956	18289
900	Mean	2194	2194	8603	8245	19041
901	CV	8.9	8.9	5.8	7.5	4.8
905	MCV	10.6	10.6	6.9	9.0	5.8
902	LSD	233.0	233.0	594.6	744.5	1100.1
906	LSR	21.1	21.1	27.6	55.1	29.2
907	Pr>F(Trts)	0.0000	0.0000	0.0007	0.0605	0.0001
908	R_square	95.7	95.7	95.1	84.4	95.8

RCBD arrangement, 4 blocks {1234}
 Nearest-neighbour covariance adjusted.

ONTARIO
 New Liskeard
 Alfalfa Registration
 Expt. 9002
 Seeded 2009

Code	Cultivar	2012 (kg/ha)		Tot12	Tot11	Tot10	3yrTot
		Cut 1	Cut 2				
1432	OAC_SUPERIOR	7448	2476	9859	12301	9226	31278
1577	STARBUCK	7619	2498	10146	11959	9502	31595
1648	ACTIS	7527	2558	10133	11915	9665	31850
1667	54Q32	7301	2543	9799	12041	8948	30674
1668	4S417	8614	2621	11223	12761	9805	33691
1669	WL353LH	7246	2583	9808	11778	8887	30261
1670	MAGNUM_VI_WET	8223	2547	10794	12885	9812	33672
1671	SHOWDOWN	7320	2563	9863	11994	8369	30220
1672	3010	7874	2472	10385	12539	9730	32755
1673	ADRENALIN	7480	2466	9982	12104	9096	31364
1674	LEGENDAIRY_5.0	7544	2512	10055	11633	9391	31065
1675	CW_02013	7319	2410	9715	12177	9384	31241
900	Mean	7626	2521	10147	12174	9318	31639
901	CV	5.8	5.6	5.1	4.7	5.0	3.7
905	MCV	7.0	6.7	6.2	5.7	6.0	4.4
902	LSD	533.7	169.3	625.1	693.4	555.2	1392.2
906	LSR	39.0	80.0	41.5	55.4	38.5	40.1
907	Pr>F(Trts)	0.0037	0.7241	0.0093	0.1399	0.0050	0.0022
908	R_square	71.0	62.1	70.9	53.4	71.7	71.4

RCBD arrangement, 4 blocks {1234}
 Nearest-neighbour covariance adjusted.

ONTARIO
 Kemptville
 Alfalfa Registration A
 Seeded 2009

Variety	Code	Cut 1	Cut 2	Cut 3	Total
		2012 Yield (kg/ha)			
CFL0913	1648	7049	2921	2001	11971
CW02013	1675	6420	2559	2120	11099
SHOWNDOWN	1671	5576	3180	2187	10943
CW24207	1673	5489	2472	1270	9231
DS721	1672	5863	3575	1906	11344
LegenDairy_5.0	1674	5945	2017	1975	9937
MagnumVI-Wet	1670	6872	3819	2551	13242
OAC-Superior	1432	6853	2807	1689	11348
Starbuck	1577	6008	2509	1544	10061
WL353LH	1669	6786	2551	2275	11612
134	1498	6236	2748	1773	10757
4S417	1668	7196	3309	1852	12357
54Q32	1667	6867	3669	2524	13061
Mean		6397	2934	1974	11305
CV		19.4	17.6	26.4	12.2
LSD		1841	764	772	2035

ONTARIO
 New Liskeard
 Alfalfa
 Expt. 8001
 Seeded 2008

Code	Cultivar	2012 (kg/ha)		Tot12	Tot11	Tot10	Tot09	4yrTot
		Cut 1	Cut 2					
1432	OAC SUPERIOR	6243	2552	8749	11779	9170	10431	39926
1577	STARBUCK	6073	2349	8451	10658	8352	9933	37673
1652	55V48	6939	2432	9415	11850	9011	10426	41242
1665	WL363HQ	6869	2403	9289	11090	8094	10007	38297
1666	L33HD	6947	2613	9519	11378	8798	9943	39203
900	Mean	6614	2470	9084	11351	8685	10148	39268
901	CV	6.3	10.5	6.8	6.4	6.0	6.6	3.5
905	MCV	8.0	13.5	8.7	8.2	7.7	8.5	4.5
902	LSD	531.4	333.0	789.3	935.6	665.7	857.7	1754.2
906	LSR	60.8	125.9	73.9	78.5	61.8	172.0	49.1
907	Pr>F(Trts)	0.0502	0.8626	0.1774	0.2338	0.0801	0.6815	0.0675
908	R_square	80.1	41.8	73.6	71.1	76.5	49.0	80.7

RCBD arrangement, 4 blocks {1234}
 Nearest-neighbour covariance adjusted.

ONTARIO
 New Liskeard
 Alfalfa
 Expt. 7007
 Seeded 2007

Code	Cultivar	2012 (kg/ha)		Tot12	Tot11	Tot10	Tot09	Tot08	5yrTot
		Cut 1	Cut 2						
1432	OAC_SUPERIOR	5770	2579	8368	10137	8274	9650	11087	47110
1638	54V09	5117	2328	7364	9518	7845	9858	10943	45699
1652	55V48	4925	2285	7258	9800	7320	9333	10429	44026
1653	DS450	5233	2197	7435	9438	7798	10382	10908	45863
1654	DS723	5251	2519	7826	9924	8163	10081	10833	47133
1655	L447HD	5010	2267	7264	9580	7571	9650	10555	44825
1656	13017	5291	2377	7653	9452	7604	9693	10717	44923
1657	15029	5383	2361	7717	9616	7502	10145	11020	45602
1660	QS0131	5359	2235	7582	9158	7825	10159	10901	45811
1661	SF2004	5398	2514	7885	10068	8459	10423	11676	48994
911	FILLER	5272	2306	7624	9305	7834	9823	10818	45265
900	Mean	5273	2361	7634	9636	7836	9927	10899	45932
901	CV	9.8	8.9	9.1	4.5	6.5	5.9	5.8	4.9
905	MCV	11.8	10.7	10.9	5.4	7.8	7.1	7.0	5.9
902	LSD	622.8	252.5	831.0	521.9	614.7	702.5	763.7	2691.6
906	LSR	73.7	66.2	74.9	53.3	54.0	64.5	61.2	54.2
907	Pr>F(Trts)	0.7097	0.2209	0.5805	0.0641	0.1152	0.2727	0.4496	0.2112
908	R_square	58.5	57.3	57.4	83.2	61.2	59.7	64.3	58.4

RCBD arrangement, 4 blocks {1234}
 Nearest-neighbour covariance adjusted.

ONTARIO
 New Liskeard
 (2879) Alfalfa Performance 2-cut management
 Expt. 9001
 Seeded 2009

Code	Cultivar	2012 (kg/ha)		
		Cut 1	Cut 2	Tot12
1325	MAGNUM_IV	7242	3213	10467
1409	AFFINITY+Z	7408	3056	10460
1432	OAC_SUPERIOR	7879	3234	11120
1481	APPROVED	7115	3353	10489
1482	WINTERGOLD	7531	3473	11006
1498	134	7722	3363	11085
1521	MAGNUM_3801	7594	3110	10723
1525	FORECAST_100	7895	3192	11085
1537	VALIANT	7543	3294	10824
1598	54H11	7572	3140	10726
1599	WL319HQ	7709	3405	11088
1600	4_2	7403	3295	10710
1603	WL357HQ	7818	3353	11174
1614	94023	7775	3499	11288
1617	WL_348_AP	7530	3179	10669
1618	WL_345_LH	6754	2919	9664
1619	EVERMORE	7429	3420	10857
1624	QS05009	7227	2964	10218
1630	FSG400LH	7209	3377	10585
1636	CW75046	7226	3080	10310
1637	53H92	6660	3108	9756
1646	WL343HQ	8149	3427	11581
1649	Stellar_FG	7615	3669	11287
1652	55V48	7453	3374	10855
1659	4A421	7728	3503	11264
1664	Super_Nova	7067	3004	10075
1667	54Q32	7625	3448	11022
1675	CW 02013	8157	3352	11476
1676	QS44031	7713	3885	11619
1677	QS4010	7671	3472	11151
1678	Survivor	7585	3399	10926
1680	Response_WT	7784	3398	11186
900	Mean	7525	3311	10836
901	CV	4.5	8.6	4.8
905	MCV	5.3	10.2	5.6
902	LSD	396.4	337.1	610.3
906	LSR	26.5	34.9	31.2
907	Pr>F(Trts)	0.0000	0.0046	0.0000
908	R_square	76.3	59.4	72.5

RCBD arrangement, 4 blocks {1234}
 Nearest-neighbour covariance adjusted.

New Liskeard
 (2883) Alfalfa Performance 3-cut management
 Expt. 9006
 Seeded 2009

Code	Cultivar	2012 (kg/ha)			
		Cut 1	Cut 2	Cut 3	Tot12
1325	MAGNUM_IV	6002	2210	4469	12677
1409	AFFINITY+Z	5716	2076	4434	12239
1432	OAC_SUPERIOR	6372	2416	4908	13733
1481	APPROVED	5809	2207	4740	12771
1482	WINTERGOLD	5543	2189	4627	12330
1498	134	6068	2172	4700	12887
1521	MAGNUM_3801	6076	2241	4426	12718
1525	FORECAST_100	5891	2186	4630	12708
1537	VALIANT	5844	2261	4625	12732
1598	54H11	5479	1931	4366	11780
1599	WL319HQ	6089	2242	4587	12928
1600	4_2	5798	2040	4484	12346
1603	WL357HQ	6066	2293	4838	13198
1614	94023	5543	2108	4563	12233
1617	WL_348_AP	5925	2093	4738	12763
1618	WL_345_LH	5378	1976	4347	11644
1619	EVERMORE	6420	2212	4591	13183
1624	QS05009	5806	1935	4645	12446
1630	FSG400LH	5469	2167	4471	12040
1636	CW75046	5089	2127	4567	11865
1637	53H92	5142	2046	4029	11169
1646	WL343HQ	6113	2119	4681	12835
1649	Stellar_FG	5797	2440	4490	12711
1652	55V48	5646	2182	4483	12306
1659	4A421	6330	2372	4993	13675
1664	Super_Nova	5918	2173	4337	12455
1667	54Q32	5712	2154	4469	12347
1675	CW 02013	6263	2147	4440	12850
1676	QS44031	5751	2475	4762	13070
1677	QS4010	5524	2091	4658	12323
1678	Survivor	6091	2148	4714	12971
1680	Response_WT	5578	2077	4627	12263
900	Mean	5820	2172	4576	12569
901	CV	6.2	9.3	5.1	4.9
905	MCV	7.3	10.9	6.0	5.7
902	LSD	427.4	237.5	274.9	720.9
906	LSR	32.1	43.6	28.5	28.1
907	Pr>F(Trts)	0.0000	0.0321	0.0003	0.0000
908	R_square	79.5	61.0	82.1	75.4

RCBD arrangement, 4 blocks {1234}
 Nearest-neighbour covariance adjusted.

ONTARIO
 Elora
 Alfalfa Performance, 3 cut management
 Expt. 2895
 Seeded 2010

Code	Cultivar	2012 (kg/ha)			Total
		Cut 1	Cut 2	Cut 3	
910	filler	3049	1405	1238	5686
1325	MAGNUM_IV	3170	1432	1224	5843
1409	AFFINITY+Z	3101	1301	1162	5546
1432	OAC_SUPERIOR	3186	1442	1295	5927
1498	134	3173	1540	1214	5942
1521	MAGNUM_3801	3267	1491	1241	5986
1525	FORECAST_100	3051	1340	1290	5689
1537	VALIANT	3053	1381	1178	5620
1577	STARBUCK	3188	1599	1394	6171
1599	WL319HQ	3161	1534	1255	5951
1600	SATELLITE	2892	1050	1132	5073
1603	WL357HQ	3242	1667	1320	6250
1610	FOREMOST	3271	1707	1426	6391
1616	53Q30	2825	1353	1196	5366
1617	WL348AP	3140	1477	1298	5914
1618	WL345LH	2671	1354	1041	5082
1619	EVERMORE	3087	1505	1252	5849
1620	MARVEL	3183	1639	1341	6161
1625	QS04027	3248	1650	1347	6252
1636	RADAR	3118	1375	1238	5737
1637	53H92	2604	1435	1099	5123
1646	WL343HQ	3069	1755	1232	6064
1649	STELLAR_FG	3398	1793	1431	6625
1652	55V48	3173	1397	1284	5855
1659	4A421	3412	1929	1465	6790
1664	SUPER_NOVA	3093	1317	1155	5577
1667	54Q32	3267	1725	1250	6250
1675	CW_2013	3026	1477	1142	5641
1678	SURVIVOR	3236	1637	1368	6226
1715	55V12	3192	1510	1305	5995
900	Mean	3118	1507	1261	5886
902	LSD(0.05)	394	311	153	744
901	CV	9.0	14.6	8.6	9.0

RCBD 4 replicates, nearest-neighbour adjustment

ONTARIO
 Elora
 Alfalfa Performance, 4 cut management
 Expt. 2896
 Seeded 2010

Code	Cultivar	2012 (kg/ha)				Total
		Cut 1	Cut 2	Cut 3	Cut 4	
910	filler	2581	1045	538	366	4532
1325	MAGNUM_IV	2608	1040	585	391	4605
1409	AFFINITY+Z	2536	847	468	336	4213
1432	OAC_SUPERIOR	2667	1089	532	325	4607
1498	134	2420	900	485	385	4206
1521	MAGNUM_3801	2421	920	492	325	4183
1525	FORECAST_100	2274	933	482	355	4114
1537	VALIANT	2427	850	419	364	4037
1577	STARBUCK	2291	905	500	365	4079
1599	WL319HQ	2621	1024	455	386	4494
1600	SATELLITE	2574	932	474	364	4344
1603	WL357HQ	2677	1303	683	411	5054
1610	FOREMOST	2649	1072	565	399	4741
1616	53Q30	2356	930	435	444	4135
1617	WL348AP	2570	1023	498	387	4445
1618	WL345LH	2168	941	504	386	4004
1619	EVERMORE	2450	931	445	383	4206
1620	MARVEL	2414	979	558	463	4410
1625	QS04027	2278	1052	456	387	4163
1636	RADAR	2153	787	399	397	3712
1637	53H92	1958	789	452	262	3453
1646	WL343HQ	2521	1091	544	420	4571
1649	STELLAR_FG	2406	1120	567	374	4480
1652	55V48	2235	844	385	297	3685
1659	4A421	2265	1045	559	470	4367
1664	SUPER_NOVA	2534	868	477	389	4232
1667	54Q32	2685	1171	568	459	4838
1675	CW_2013	2482	914	407	374	4208
1678	SURVIVOR	2541	985	487	376	4425
1715	55V12	2692	1009	523	418	4649
900	Mean	2448	978	498	382	4306
902	LSD(0.05)	340	181	122	134	617
901	CV	9.8	13.1	17.4	24.9	10.2

RCBD 4 replicates, nearest-neighbour adjustment

ONTARIO
 Winchester
 Alfalfa Performance, 3 cut management

Seeded 2010

Code	Cultivar	2012 (kg/ha)			Total
		Cut 1	Cut 2	Cut 3	
911	filler	4676	2561	1931	9135
1325	MAGNUM_IV	4916	2055	1545	8532
1409	AFFINITY+Z	4687	2171	1611	8425
1432	OAC_SUPERIOR	4664	2373	1669	8670
1498	134	4580	2099	1555	8176
1521	MAGNUM_3801	4613	2437	1868	8920
1525	FORECAST_100	4648	2461	1723	8820
1537	VALIANT	4755	2777	2028	9601
1577	STARBUCK	5124	2097	1740	8815
1599	WL319HQ	4575	3090	1992	9641
1600	SATELLITE	4622	2423	1807	8896
1603	WL357HQ	4384	2756	2147	9401
1610	FOREMOST	4685	2530	2032	9299
1616	53Q30	4681	2528	1941	9214
1617	WL348AP	4356	2129	1744	8281
1618	WL345LH	4803	2448	1744	8977
1619	EVERMORE	4810	2693	1901	9401
1620	MARVEL	4405	2746	2251	9469
1625	QS04027	4765	3186	2164	10062
1636	RADAR	4643	2497	1859	8979
1637	53H92	4786	2494	2172	9477
1646	WL343HQ	4648	2896	2245	9832
1649	STELLAR_FG	4528	3079	2519	10147
1652	55V48	4744	2796	2098	9611
1659	4A421	4580	2999	2405	9938
1664	SUPER_NOVA	4767	2121	1522	8497
1667	54Q32	4421	2829	1996	9232
1675	CW_2013	4467	2821	2122	9457
1678	SURVIVOR	5259	2894	2143	10236
1715	55V12	4801	2723	1765	9221
900	Mean	4676	2597	1946	9220
902	LSD(0.05)	465	507	362	978
901	CV	7.0	13.8	13.1	7.5

RCBD 4 replicates, nearest-neighbour adjustment

ONTARIO
 New Liskeard
 2899 Alfalfa Performance 2-cut management
 Expt. 1001
 Seeded 2010

Code	Cultivar	2012 (kg/ha)		
		Cut 1	Cut 2	Tot12
911	FILLER	8376	2942	11302
1325	MAGNUM_IV	8778	2916	11696
1409	AFFINITY+Z	8799	3014	11805
1432	OAC_SUPERIOR	9064	3165	12239
1498	134	8453	3151	11605
1521	MAGNUM_3801	8817	3076	11886
1525	FORECAST_100	8402	2993	11391
1537	VALIANT	8615	3167	11757
1577	STARBUCK	8599	3331	11943
1599	WL319HQ	8271	2923	11218
1600	4_2	8251	3075	11296
1603	WL357HQ	8217	3002	11196
1610	SA034	8682	3186	11849
1616	53Q30	7941	3052	10989
1617	WL_348_AP	8831	2973	11795
1618	WL_345_LH	8449	3132	11607
1619	EVERMORE	8510	3085	11596
1620	MARVEL	8197	2937	11154
1625	QS04027	7956	3001	10963
1636	CW75046	8035	2898	10957
1637	53H92	8028	2946	10972
1646	WL343HQ	8339	2996	11325
1649	STELLAR_FG	8596	3345	11949
1652	55V48	8686	3163	11828
1659	4A421	8623	3013	11655
1664	SUPER NOVA	8974	2849	11836
1667	54Q32	8692	3141	11843
1675	CW_02013	8739	2916	11658
1678	SURVIVOR	8450	3103	11545
1715	55V12	8178	2785	10969
900	Mean	8485	3042	11527
901	CV	4.7	6.0	4.0
905	MCV	5.6	7.1	4.7
902	LSD	474.2	214.5	538.5
906	LSR	42.2	38.3	42.0
907	Pr>F(Trts)	0.0029	0.0057	0.0008
908	R_square	79.5	73.2	83.3

RCBD arrangement, 4 blocks {1234}
 Nearest-neighbour covariance adjusted.

ONTARIO
 New Liskeard
 2900 Alfalfa Performance 3-cut management
 Expt. 1002
 Seeded 2010

Code	Cultivar	2012 (kg/ha)			Tot12
		Cut 1	Cut 2	Cut 3	
911	FILLER	8216	3034	5040	16266
1325	MAGNUM_IV	8887	3061	5128	17044
1409	AFFINITY+Z	8662	3119	5068	16924
1432	OAC_SUPERIOR	8608	3099	4976	16592
1498	134	8189	3096	5051	16290
1521	MAGNUM_3801	8306	3162	5281	16689
1525	FORECAST_100	8781	3094	5052	16876
1537	VALIANT	8178	2936	4973	16068
1577	STARBUCK	8162	3135	5322	16603
1599	WL319HQ	8448	3075	4956	16497
1600	4_2	8429	3184	5196	16817
1603	WL357HQ	7901	2996	5217	16169
1610	SA034	8297	3033	5029	16391
1616	53Q30	7861	2914	4855	15587
1617	WL_348_AP	8228	2901	5254	16320
1618	WL_345_LH	7458	2961	4692	15169
1619	EVERMORE	7947	2812	4856	15653
1620	MARVEL	7956	3035	5030	16069
1625	QS04027	8229	3122	5124	16473
1636	CW75046	7581	2736	4821	15129
1637	53H92	7926	3029	4504	15496
1646	WL343HQ	8191	2900	5085	16154
1649	STELLAR_FG	7956	3375	5112	16387
1652	55V48	8038	3078	5226	16361
1659	4A421	8847	3168	5194	17205
1664	SUPER_NOVA	8527	2814	4713	16114
1667	54Q32	7875	2963	4945	15809
1675	CW_02013	8124	2933	4989	16190
1678	SURVIVOR	8117	2880	5025	16021
1715	55V12	7586	2703	4893	15108
900	Mean	8184	3012	5020	16216
901	CV	5.5	6.7	4.7	4.1
905	MCV	6.5	7.9	5.5	4.8
902	LSD	533.2	238.8	277.7	784.6
906	LSR	37.3	35.5	33.9	37.4
907	Pr>F(Trts)	0.0006	0.0089	0.0008	0.0003
908	R_square	63.6	66.0	64.7	70.9

RCBD arrangement, 4 blocks {1234}
 Nearest-neighbour covariance adjusted.

ONTARIO
 Elora
 Alfalfa Performance, 3 cut management
 Expt. 2877
 Seeded 2009

Persistence notes

Code	Cultivar	2012 (kg/ha)	
		Cut 1	% of test mean
1325	MAGNUM_IV	2284	106
1409	AFFINITY+Z	1865	87
1432	OAC_SUPERIOR	2503	116
1481	APPROVED	1976	92
1482	WINTERGOLD	1946	90
1498	134	2109	98
1521	MAGNUM_3801	2345	109
1525	FORECAST_100	2188	102
1537	VALIANT	2060	96
1598	54H11	2151	100
1599	WL319HQ	2406	112
1600	SATELLITE	2126	99
1603	WL357HQ	2252	105
1614	94023	2070	96
1617	WL348AP	1911	89
1618	WL345LH	1773	82
1619	EVERMORE	2233	104
1624	LEXUS	2149	100
1630	FSG400LH	1822	85
1636	RADAR	2030	94
1637	53H92	1652	77
1646	WL343HQ	2441	113
1649	STELLAR_FG	2335	108
1652	55V48	2229	104
1659	4A421	2640	123
1664	SUPER_NOVA	2123	99
1667	54Q32	2170	101
1675	CW_02013	2377	110
1676	QS44031	2435	113
1677	QS4010	2129	99
1678	SURVIVOR	2011	93
1680	RESPONSE_WT	2153	100
900	Mean	2153	
902	LSD (0.05)	412	
901	CV	13.6	

RCBD 4 replications, nearest neighbour analysis

ONTARIO
 Elora
 Alfalfa Performance, 4 cut management
 Expt. 2881
 Seeded 2009

Code	Cultivar	Persistence notes	
		2012 (kg/ha) Cut 1	% of test mean
1325	MAGNUM_IV	1097	103
1409	AFFINITY+Z	861	81
1432	OAC_SUPERIOR	1145	107
1481	APPROVED	916	86
1482	WINTERGOLD	829	78
1498	134	1035	97
1521	MAGNUM_3801	1061	99
1525	FORECAST_100	985	92
1537	VALIANT	1075	101
1598	54H11	807	76
1599	WL319HQ	1429	134
1600	SATELLITE	1235	116
1603	WL357HQ	1154	108
1614	94023	1115	104
1617	WL348AP	1072	100
1618	WL345LH	861	81
1619	EVERMORE	1106	104
1624	LEXUS	1044	98
1630	FSG400LH	987	92
1636	RADAR	772	72
1637	53H92	592	55
1646	WL343HQ	1236	116
1649	STELLAR_FG	1316	123
1652	55V48	957	90
1659	4A421	1228	115
1664	SUPER_NOVA	997	93
1667	54Q32	1341	126
1675	CW_02013	1464	137
1676	QS44031	1122	105
1677	QS4010	1100	103
1678	SURVIVOR	1219	114
1680	RESPONSE_WT	1005	94
900	Mean	1068	
902	LSD(0.05)	429	
901	CV	28.6	

RCBD 4 replicates, nearest neighbour adjustment

ONTARIO
 Elora
 Late Timothy Registration Trial
 Expt. 2903
 Seeded 2011

Code	Cultivar	2012 (kg/ha)		
		Cut 1	Cut 2	Tot12
6002	CLIMAX	4262	881	5144
6026	ITASCA	4358	932	5290
6066	NORMAX	3867	1006	4873
6081	MARIPOSA	3988	1091	5078
6086	ALEXANDER	4469	1038	5506
6136	EXPRESS	4495	1045	5540
6138	AURORA	4128	1012	5141
6161	TREASURE	4677	1300	5977
6176	AC_PRATT	3891	963	4854
900	Mean	4237	1030	5267
901	CV	7.8	8.6	6.8
905	MCV	9.5	10.4	8.3
902	LSD	401.0	107.3	435.5
906	LSR	49.5	25.6	38.8
907	Pr>F(Trts)	0.0175	0.0001	0.0041
908	R_square	77.2	74.3	78.3

RCBD arrangement, 4 blocks {1234}

ONTARIO
 New Liskeard
 Late Timothy Reg A
 Expt. 1105
 Seeded 2011

Code	Cultivar	2012 (kg/ha)		
		Cut 1	Cut 2	Tot12
6002	CLIMAX	4555	2385	6910
6026	ITASCA	4945	2724	7650
6066	NORMAX	4867	3194	8090
6081	MARIPOSA	4552	2926	7481
6086	ALEXANDER	4278	2580	6925
6136	EXPRESS	4771	3213	7927
6138	AURORA	4570	2632	7204
6161	TREASURE	4580	3320	7877
6176	AC_PRATT	4544	2397	6972
900	Mean	4629	2819	7448
901	CV	6.9	8.1	5.2
905	MCV	8.4	9.9	6.4
902	LSD	388.0	278.9	474.3
906	LSR	58.2	29.8	40.2
907	Pr>F(Trts)	0.2251	0.0000	0.0009
908	R_square	61.2	82.7	70.0

RCBD arrangement, 4 blocks {1234}
 Nearest-neighbour covariance adjusted.

ONTARIO
 Thunder Bay
 Late Timothy Registration Trial
 Expt. 2903
 2010 Test ReSeeded 2011

Code	Cultivar	DRY MATTER YIELD (kg/ha)		
		1ST CUT	2ND CUT	TOTAL
6086	Alexander	4030	1433	5463
6175	BOR_01025	4103	1294	5397
6174	BOR_88060	4553	951	5503
6002	Climax	4592	1100	5692
6136	Express	5251	1453	6704
6026	Itasca	4699	1237	5936
6081	Mariposa	4295	1077	5372
6066	Normax	4587	1341	5928
6161	Treasure	4332	1188	5520
	MEAN	4494	1230	5724
	C.V. (%)	6	21	7
	PR>F	0.0000	0.1663	0.0028
	LSD (0.05)	383	385	601

ONTARIO
 Elora
 Late Timothy Reg A
 Expt. 2887
 Seeded 2010

Code	Cultivar	2012 (kg/ha)			Tot11	2yrTot
		Cut 1	Cut 2	Tot12		
6002	CLIMAX	3788	352	4141	7602	11743
6026	ITASCA	4638	445	5083	9202	14285
6066	NORMAX	4455	473	4928	8815	13742
6081	MARIPOSA	4467	526	4994	9449	14442
6086	ALEXANDER	4038	508	4545	8579	13124
6136	EXPRESS	4759	465	5224	10776	16000
6138	AURORA	3897	447	4344	8976	13320
6161	TREASURE	4153	568	4721	8667	13388
6173	TIFFANY	3835	546	4381	8939	13321
6174	BOR_88060	4903	599	5502	8724	14226
6175	BOR_01025	4209	378	4588	8401	12989
900	Mean	4286	483	4768	8921	13689
901	CV	8.0	19.4	7.5	6.1	5.2
905	MCV	9.5	23.2	9.0	7.3	6.2
902	LSD	408.9	112.1	429.7	652.4	849.6
906	LSR	36.7	45.4	31.6	20.6	20.0
907	Pr>F(Trts)	0.0003	0.0180	0.0002	0.0000	0.0000
908	R_square	79.7	62.6	81.6	82.4	86.8

RCBD arrangement, 4 blocks {1234}

ONTARIO
 New Liskeard
 Late Timothy
 Expt. 9003
 Seeded 2009

Code	Cultivar	2012 (kg/ha)		Tot12	Tot11	Tot10	3yrTot
		Cut 1	Cut 2				
6002	CLIMAX	4642	1254	5896	9816	9426	25138
6026	ITASCA	5110	1760	6870	11357	9931	28158
6066	NORMAX	5174	2173	7346	11647	10512	29505
6086	ALEXANDER	5104	1831	6935	11054	9945	27934
6136	EXPRESS	5539	2159	7698	10725	10215	28638
6138	AURORA	4550	2226	6775	10686	10323	27785
6161	TREASURE	5454	2302	7756	11228	10527	29511
6172	ARLAKA	5068	1674	6742	10211	9698	26651
900	Mean	5080	1922	7002	10840	10072	27915
901	CV	6.9	11.1	6.3	6.3	7.3	3.9
905	MCV	8.4	13.6	7.7	7.7	8.9	4.7
902	LSD	426.4	260.8	539.1	833.1	899.3	1323.9
906	LSR	43.1	24.9	29.0	45.5	81.7	30.3
907	Pr>F(Trts)	0.0074	0.0000	0.0002	0.0190	0.3834	0.0002
908	R_square	63.4	82.7	74.9	56.1	37.2	72.9

RCBD arrangement, 4 blocks {1234}

ONTARIO
 New Liskeard
 Late Timothy
 Expt. 7001
 Seeded 2007

Code	Cultivar	2012 (kg/ha)		Tot12	Tot11	Tot10	Tot09	Tot08	5yrTot
		Cut 1	Cut 2						
6002	CLIMAX	4544	921	5465	6558	5831	9093	11264	38212
6026	ITASCA	4631	1073	5704	7758	5558	8164	13498	40682
6166	BARFLEO	2861	1029	3890	6610	5770	9110	11868	37247
6167	BOR2005	4453	1152	5605	7385	5664	8126	13137	39917
6168	BARPENTA	3305	755	4060	6057	5988	8291	10064	34459
6169	KARA	4443	1006	5449	7845	5721	7916	13067	39997
900	Mean	4039	989	5029	7036	5755	8450	12150	38419
901	CV	10.5	16.1	9.6	8.8	9.9	5.0	8.2	3.9
905	MCV	13.0	20.0	11.8	10.9	12.2	6.2	10.2	4.8
902	LSD	523.9	197.8	595.3	765.0	704.8	527.7	1240.9	1847.8
906	LSR	29.6	49.8	32.8	42.8	164.0	44.2	36.1	29.7
907	Pr>F(Trts)	0.0001	0.0456	0.0001	0.0043	0.9225	0.0033	0.0015	0.0003
908	R_square	85.6	69.5	84.5	70.3	20.3	69.4	71.4	79.7

RCBD arrangement, 4 blocks {1234}

ONTARIO
 Elora
 Bromegrass Reg A
 Expt. 2906
 Seeded 2011

Code	Cultivar	2012 (kg/ha)			
		Cut 1	Cut 2	Cut 3	Tot12
2039	BRAVO	3774	278	835	4887
2051	RADISSON	2985	368	871	4224
2054	PADDOCK	1944	183	470	2598
2057	FLEET	4013	339	781	5133
2060	PEAK	3538	328	1010	4876
2068	ARMADA	4759	474	1054	6287
2069	ADMIRAL	4159	405	1095	5660
900	Mean	3596	339	874	4809
901	CV	7.7	25.8	12.4	7.9
905	MCV	9.4	31.7	15.2	9.7
902	LSD	338.7	107.5	132.6	466.9
906	LSR	12.0	37.0	21.2	12.7
907	Pr>F(Trts)	0.0000	0.0061	0.0000	0.0000
908	R_square	93.8	67.6	84.1	92.9

RCBD arrangement, 4 blocks {1234}

ONTARIO
New Liskeard
Bromegrass Reg A
Expt. 1103
Seeded 2011

Code	Cultivar	2012 (kg/ha)		
		Cut 1	Cut 2	Tot12
2039	BRAVO	6948	2593	9542
2051	RADISSON	8086	2598	10684
2057	FLEET	8312	2325	10636
2060	PEAK	7629	3493	11123
2068	ARMADA	8920	2471	11391
2069	ADMIRAL	8474	2388	10862
900	Mean	8061	2645	10706
901	CV	7.0	17.6	8.0
902	LSD	852	703	1287

RCBD arrangement, 4 blocks {1234}

ONTARIO
 Elora
 Late Orchardgrass Reg A
 Expt. 2904
 Seeded 2011

Code	Cultivar	2012 (kg/ha)			
		Cut 1	Cut 2	Cut 3	Tot12
3079	OKAY	2924	474	1246	4644
3086	HAYMATE	2448	435	1603	4486
3096	DIVIDEND_VL	2183	406	1128	3718
3118	AC_KILLARNEY	2511	349	1093	3953
3119	AC_KOOTENAY	1924	381	826	3132
900	Mean	2398	409	1179	3987
901	CV	5.7	31.6	9.6	6.8
905	MCV	7.2	39.8	12.1	8.6
902	LSD	173.5	162.8	142.4	342.5
906	LSR	17.4	129.5	18.3	22.6
907	Pr>F(Trts)	0.0000	0.6968	0.0000	0.0000
908	R_square	93.9	33.3	90.2	89.9

RCBD arrangement, 4 blocks {1234}

ONTARIO
 New Liskeard
 Orchard Grass Reg A
 Expt. 1104
 Seeded 2011

Code	Cultivar	2012 (kg/ha)		
		Cut 1	Cut 2	Tot12
3079	OKAY	4482	3657	8139
3086	HAYMATE	4412	3811	8223
3096	DIVIDEND_VL	3537	3616	7154
3118	AC_KILLARNEY	4657	3076	7734
3119	AC_KOOTENAY	4109	2782	6891
900	Mean	4239	3389	7628
901	CV	8.1	6.3	5.3
905	MCV	10.3	8.0	6.7
902	LSD	435.1	271.1	513.0
906	LSR	38.9	26.4	38.5
907	Pr>F (Trts)	0.0053	0.0001	0.0019
908	R_square	79.3	88.6	82.7

RCBD arrangement, 4 blocks {1234}

ONTARIO
Elora
Orchardgrass
Expt. 2890
Seeded 2010

Code	Cultivar	2012 (kg/ha)		Total
		Cut 1	Cut 2	
3066	RAPIDO	3015	825	3815
3079	OKAY	2285	663	2962
3086	HAYMATE	2315	660	3052
3094	ORCA	3115	895	4069
3096	DIVIDEND_VL	2013	726	2535
3110	OG01	2382	622	3088
3114	OG06	1878	730	2603
900	Mean	2429	732	3161
902	LSD(0.05)	660	176	660
901	CV	18.1	14.9	13.8

RCBD 4 replicates, nearest neighbour analysis.

ONTARIO
Kemptville
Orchardgrass
Seeded 2008

Variety	Code	Cut 1 2012 Yield	Cut 2 Yield (kg/ha)	Total
ORG-08-02	3115	1185	419	1605
Proper	3113	1250	544	1795
Okay	3079	1481	627	2110
OG06	3114	1374	650	2026
Mean		1322	560	1884
CV		17.6	14.3	12.7
LSD		466	160	477

ONTARIO
 New Liskeard
 Tall Fescue
 Expt. 8002
 Seeded 2008

Code	Cultivar	2012 (kg/ha)		Tot12	Tot11	Tot10	Tot09	4yrTot
		Cut 1	Cut 2					
5039	PST-5CAN	3723	2470	6193	5167	6580	10856	28795
5040	BARIANNE	3347	2422	5769	5499	7124	11814	30205
5041	KORA	4077	3213	7289	6942	8494	12816	35541
5042	FTF-080-01	3678	3322	7000	7173	8233	10748	33154
5523	COURTENAY	4049	3256	7305	7617	8708	11148	34778
5526	KOKANEE	4107	3273	7380	7287	8289	10631	33587
900	Mean	3830	2993	6823	6614	7905	11335	32677
901	CV	8.3	10.1	6.0	5.6	4.5	10.9	4.4
905	MCV	10.3	12.5	7.5	7.0	5.6	13.5	5.4
902	LSD	394.5	375.5	509.8	462.9	443.8	1527.2	1777.3
906	LSR	51.9	41.7	31.6	18.9	20.9	69.9	26.3
907	Pr>F(Trts)	0.0249	0.0009	0.0002	0.0000	0.0000	0.1611	0.0001
908	R_square	57.1	74.8	80.1	93.0	88.7	47.8	83.5

RCBD arrangement, 4 blocks {1234}

ONTARIO
 New Liskeard
 Tall Fescue
 Expt. 7003
 Seeded 2007

Code	Cultivar	2012 (kg/ha)		Tot12	Tot11	Tot10	Tot09	Tot08	5yrTot
		Cut 1	Cut 2						
5028	CARNIVAL	3537	3040	6578	5506	7788	9333	14797	44002
5037	BARELITE	2606	2112	4718	4154	5941	7630	13386	35828
5523	COURTENAY	3060	2818	5878	6581	7517	9151	15151	44279
5526	KOKANEE	3337	3072	6409	6348	7473	8921	14236	43387
900	Mean	3135	2760	5896	5647	7180	8759	14393	41874
901	CV	13.2	8.1	8.4	8.2	2.7	6.1	7.3	2.8
905	MCV	17.2	10.6	10.9	10.6	3.5	7.9	9.4	3.6
902	LSD	537.8	291.3	641.9	600.5	249.7	691.8	1356.7	1508.1
906	LSR	57.8	30.3	34.5	24.7	13.5	40.6	76.8	17.8
907	Pr>F (Trts)	0.0525	0.0007	0.0022	0.0002	0.0000	0.0060	0.1617	0.0000
908	R_square	57.2	87.6	80.1	90.5	96.4	75.5	59.2	94.5

RCBD arrangement, 4 blocks {1234}

ONTARIO
 Elora
 Perennial Ryegrass Reg A
 Expt. 2905
 Seeded 2011

Code	Cultivar	2012 (kg/ha)		
		Cut 1	Cut 2	Tot12
8516	BARSPRINTER	3766	474	4240
8519	REMINGTON	3817	805	4621
8537	DYNAMIC	1226	905	2130
8538	INTRODA	3124	680	3805
8539	TORONTO	3585	570	4156
8540	CHICAGO	2906	618	3524
8542	MARA	3429	748	4178
8543	RESPECT	3490	688	4178
900	Mean	3168	686	3854
901	CV	8.9	16.4	8.9
905	MCV	12.8	23.6	12.8
902	LSD	406.3	161.6	491.4
906	LSR	15.7	37.5	19.7
907	Pr>F(Trts)	0.0000	0.0094	0.0000
908	R_square	93.2	74.1	88.9

RCBD arrangement, 3 blocks {234}

ONTARIO
 Elora
 Perennial Ryegrass - Fall seeded
 Expt. 2919
 Seeded 2011

Code	Cultivar	2012 (kg/ha)		Tot12
		Cut 1	Cut 2	
8516	BARSPRINTER	8891	859	9750
8519	REMINGTON	5908	1168	7077
8537	DYNAMIC	3547	1151	4698
8538	INTRODA	8582	1155	9738
8539	TORONTO	8763	855	9618
8540	CHICAGO	8300	1001	9301
8542	MARA	8309	986	9295
8543	RESPECT	8535	936	9471
900	Mean	7604	1014	8618
901	CV	8.9	12.8	8.8
905	MCV	10.8	15.6	10.7
902	LSD	821.3	158.5	923.0
906	LSR	15.4	50.6	18.3
907	Pr>F(Trts)	0.0000	0.0063	0.0000
908	R_square	91.3	58.3	88.4

RCBD arrangement, 4 blocks {1234}

ONTARIO
 New Liskeard
 Perennial Rye Grass Reg A
 Expt. 1106
 Seeded 2011

PERSISTENCE NOTES

Code	Cultivar	2012 Cut 1	% of test mean
8519	REMINGTON	3044	110
8537	DYNAMIC	1242	45
8538	INTRODA	1228	44
8539	TORONTO	684	25
8540	CHICAGO	1552	56
8542	MARA	2724	99
8543	RESPECT	0	0
8516	BARSPRINTER	4012	145
900	Mean	2763	
901	CV	14.5	
902	LSD	652	

RCBD arrangement, 4 blocks {1234}
 Only surviving plots analyzed; SAS Proc GLM analysis.

ONTARIO
 New Liskeard
 Perennial Rye Grass Reg A
 Expt. 1106
 Seeded 2011

YIELD DATA (kg/ha)

Code	Cultivar	2012 Cut 1	Total
8519	REMINGTON	3044	3044
8542	MARA	2724	2724
8516	BARSPRINTER	4012	4012
900	Mean	3260	
901	CV	9.6	
902	LSD	542	

RCBD arrangement, 4 blocks {1234}
 Only three adapted entries analyzed; SAS Proc GLM analysis.

ONTARIO
 Elora
 Perennial Ryegrass Reg A
 Expt. 2888
 Seeded 2010

Code	Cultivar	2012 (kg/ha)			Tot11	2yrTot
		Cut 1	Cut 2	Tot12		
8536	BARMULTRA_II	2259	727	2985	16077	19062
8537	DYNAMIC	2228	756	2984	8306	11291
8538	INTRODA	3914	554	4468	9968	14436
8539	TORONTO	4003	335	4338	10676	15014
8540	CHICAGO	3300	415	3715	9940	13655
900	Mean	3141	557	3698	10993	14691
901	CV	10.7	20.6	10.2	5.4	5.2
905	MCV	13.5	25.9	12.8	6.8	6.5
902	LSD	422.8	144.6	475.2	751.9	958.8
906	LSR	23.8	34.3	32.0	9.7	12.3
907	Pr>F(Trts)	0.0000	0.0008	0.0002	0.0000	0.0000
908	R_square	90.3	79.2	84.1	97.2	95.0

RCBD arrangement, 4 blocks {1234}

Heading Notes

Stage R2 (spikelets emerged but not peduncle)

Heading Dates-Elora, New Liskeard

		Elora	New Liskeard
Orchardgrass			
OG06	3114	June 2	-
ORG-08-02	3115	June 2	-
Haymaster	3117	May 28	-
OKAY	3079	May 29	June 7
Haymate	3086	May 30	June 7
Dividend VL	3096	June 4	June 7
OG01	3110	June 4	
AC Killarney	3118	May 26	June 7
AC Kootenay	3119	June 1	June 5
Tall Fescue			
Courtenay	5523	-	June 11
Kora	5041	-	June 7
FTF-08-01	5042	-	June 13
Kokanee	5526	-	June 13
Barianne	5040	-	June 14
Late Timothy			
Alexander	6086	June 10	June 13
Climax	6002	June 13	June 14
Treasure	6161	May 31	June 8
Express	6136	June 8	June 13
Normax	6066	-	June 13
Itasca	6026	June 9	June 13
Aurora	6138	June 5	June 9
Arlaka	6172	June 10	June 13
Bor01025	6175	June 13	June 15
Bor88060	6174	June 11	June 13
Early Timothy			
Richmond	6050	June 6	June 7
Toro	6030	June 6	June 7
Perennial Ryegrass			
Remington	8519	June 7	
Barsprinter	8516	June 3	
Chicago	8540	June 10	
Introda	8538	June 1	
Dynamic	8537	-	
Toronto	8539	May 31	
Respect	8543	May 31	
Mara	8542	June 5	
Annual Ryegrass			
Barmultra II	8536	May 30	