

# ONTARIO FORAGE CROP INVESTIGATIONS



## 2013 REPORT ON FIELD TRIALS OF VARIETIES AND MIXTURES

- Guelph
- Kempville
- New Liskeard
- Thunder Bay

**REPORT ON FORAGE CROPS TRIALS**  
**ONTARIO FORAGE CROP COMMITTEE**

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

**Conducted co-operatively by:**

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

This is the 2013 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*Not For Publication:* This is a progress report of co-operative investigations containing data, the interpretation of which may be modified with additional experimentation.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.

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VARIETY SUB-COMMITTEE**

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ONTARIO  
 Elora  
 Alfalfa Reg C - 4 cut  
 Expt. 2911  
 Seeded 2012

Code	Cultivar	2013 (kg/ha)				Tot13
		Cut 1	Cut 2	Cut 3	Cut 4	
1432	OAC_SUPERIOR	2597	1511	1624	752	6484
1577	STARBUCK	2430	1492	1495	802	6250
1648	ACTIS	2594	1525	1563	894	6513
1652	55V48	2558	1474	1567	798	6291
1743	CFL1203	2386	1642	1620	932	6501
1744	CFL1205	2792	1594	1763	915	7180
1745	CFL1206	2940	1785	1683	865	7322
1746	CFL1207	2708	1320	1467	834	6308
1747	GS-11-9	2272	1340	1489	784	5888
1748	GS-11-8	2220	1419	1464	737	5755
1749	GS-11-03	2935	1558	1787	890	7173
1750	GS-11-08	2790	1630	1699	884	7145
1751	PROSEMENTI	2250	1667	1459	776	6116
1752	MINERVA	2422	1584	1458	769	6279
900	Mean	2564	1539	1581	831	6515
901	CV	7.1	18.1	10.2	12.2	8.8
905	MCV	8.6	21.8	12.3	14.6	10.6
902	LSD	219.8	335.0	193.8	121.6	691.0
906	LSR	30.5	72.0	58.8	62.4	44.1
907	Pr>F(Trts)	0.0000	0.6541	0.0503	0.1356	0.0077
908	R_square	81.5	47.0	73.4	77.5	66.9

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

ONTARIO  
 Elora  
 Alfalfa Reg A - 3 cut  
 Expt. 2909  
 Seeded 2012

Code	Cultivar	2013 (kg/ha)			Tot13
		Cut 1	Cut 2	Cut 3	
1432	OAC_SUPERIOR	3559	2612	868	6998
1577	STARBUCK	3547	2732	1019	7273
1625	VALID	3380	2568	974	7029
1648	ACTIS	3491	2826	997	7194
1652	55V48	3399	2940	987	7511
1743	CFL1203	3253	2551	1041	6839
1744	CFL1205	4213	2771	1122	8015
1745	CFL1206	3997	2828	1097	8055
1746	CFL1207	3875	2701	1002	7715
1747	GS-11-9	3379	2551	921	6820
1748	GS-11-8	3064	2557	1053	6588
1749	GS-11-03	3820	2756	1071	7682
1750	GS-11-08	3888	2537	981	7366
1751	PROSEMENTI	3307	2727	1165	7114
1752	MINERVA	3417	2834	1080	7260
900	Mean	3572	2699	1025	7297
901	CV	5.6	9.3	10.5	5.2
905	MCV	6.7	11.0	12.5	6.2
902	LSD	239.1	298.2	128.4	454.4
906	LSR	20.8	73.9	43.3	31.0
907	Pr>F(Trts)	0.0000	0.4816	0.0816	0.0000
908	R_square	84.1	58.6	64.9	82.4

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

ONTARIO  
Thunder Bay  
Alfalfa Reg - 2 cut  
Seeded 2012

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Code	Cultivar	2013 (kg/ha)		Tot13
		Cut 1	Cut 2	
1432	OAC_SUPERIOR	1974	1237	3211
1749	GS-11-03	2113	1297	3411
1750	GS-11-08	2079	1384	3463
1748	GS-11-8	1777	1173	2950
1652	55V48	2080	1271	3351
1747	GS-11-9	2125	1300	3425
900	Mean	2025	1277	3302
901	CV	11	8	8
902	LSD	347	149	422
907	Pr>F(Trts)	0.3052	0.1339	0.1518

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RCBD arrangement, 4 blocks {1234}

ONTARIO  
 Thunder Bay  
 Alfalfa Reg - 3 cut  
 Seeded 2012

Code	Cultivar	2013 (kg/ha)			Tot13
		Cut 1	Cut 2	Cut 3	
1432	OAC_SUPERIOR	1925	1886	1113	4925
1749	GS-11-03	2139	2101	1141	5381
1750	GS-11-08	2173	2048	1157	5378
1748	GS-11-8	1902	1961	910	4773
1652	55V48	2141	1879	1057	5078
1747	GS-11-9	2010	2012	895	4916
900	Mean	2048	1981	1045	5075
901	CV	8	5	11	4
902	LSD	237	142	169	340
907	Pr>F(Trts)	0.1001	0.0253	0.0126	0.0062

RCBD arrangement, 4 blocks {1234}



ONTARIO  
 Elora  
 Alfalfa Reg E- 4 Cut  
 Expt. 2902  
 Seeded 2011

Code	Cultivar	2013 (kg/ha)				Tot13	Tot12	2yrTot
		Cut 1	Cut 2	Cut 3	Cut 4			
1432	OAC_SUPERIOR	3478	1705	1485	844	7618	6396	14070
1577	STARBUCK	3278	1467	1429	850	7136	6175	13290
1648	ACTIS	3364	1626	1431	1134	7527	6841	14493
1697	CW_064004	3402	1656	1584	1091	7761	6731	14428
1699	CW_054004	3504	1635	1510	1023	7582	6599	14019
1720	55V50	3548	1594	1415	867	7429	7000	14612
1721	55H94	3125	1564	1400	756	6952	6459	13380
1722	WL354HQ	3370	1713	1469	1007	7596	6628	14208
1730	CFL0802	3043	1616	1378	930	6908	6261	13042
1734	AKORI	3637	1585	1478	939	7619	6634	14073
1738	CW065006	3531	1756	1519	1081	7685	7001	14925
900	Mean	3389	1629	1463	956	7438	6611	14049
901	CV	9.9	8.7	5.5	9.5	7.3	5.8	5.3
905	MCV	11.9	10.5	6.7	11.5	8.8	6.9	6.3
902	LSD	403.9	170.6	97.7	109.8	654.9	458.6	889.8
906	LSR	68.0	59.0	47.4	29.1	76.8	55.5	47.3
907	Pr>F(Trts)	0.3599	0.3837	0.0757	0.0000	0.4608	0.1184	0.0950
908	R_square	59.0	67.4	82.0	85.7	62.6	74.4	54.4

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

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

Code	Cultivar	2013 (kg/ha)			Tot13	Tot12	2yrTot
		Cut 1	Cut 2	Cut 3			
1432	OAC_SUPERIOR	4805	2996	1645	9457	10324	19722
1577	STARBUCK	4900	3041	1524	9466	9148	18584
1579	ASCEND	5100	3141	1529	9798	9657	19528
1648	ACTIS	4747	3369	1715	9838	9926	19895
1697	CW_064004	4729	3172	1615	9471	9338	18676
1699	CW_054004	4764	3146	1755	9627	10171	19826
1720	55V50	5197	3263	1637	10134	10177	20162
1721	55H94	5056	3000	1444	9488	9298	18828
1722	WL354HQ	4732	3207	1631	9584	9702	19338
1723	PS11A01	4540	3231	1659	9437	9470	18977
1724	PS11A02	5053	3122	1666	9779	9842	19711
1725	REBOUND_5_0	4521	3238	1539	9305	9283	18380
1726	STOCKPILE	5704	3196	1787	10669	10626	21430
1727	SHOCKWAVE_BR	5146	3161	1725	10064	10573	20702
1728	5010	4594	3109	1641	9327	9551	19001
1729	OPTIMUS	4637	3055	1672	9324	9496	18843
1730	CFL0802	4926	3270	1705	9908	9323	18978
1732	CFL1101	4998	3232	1609	9888	9967	19908
1733	CFL1102	4658	3303	1575	9519	9694	19260
1734	AKORI	5205	3109	1514	9855	9912	19837
1735	QS-NR	4786	2909	1577	9291	9570	19003
1736	DSB-18-T	4901	3096	1672	9650	10898	20552
1737	LS603	4810	3148	1590	9542	9283	18711
1738	CW065006	4916	3252	1781	9945	9626	19355
1739	PRIZE	4763	2899	1514	9210	9171	18394
900	Mean	4888	3147	1629	9663	9761	19424
901	CV	8.4	5.3	8.3	5.7	4.7	4.6
905	MCV	9.9	6.3	9.8	6.7	5.5	5.4
902	LSD	485.4	197.8	160.1	652.0	539.9	1055.2
906	LSR	41.0	42.1	46.7	44.7	30.8	34.6
907	Pr>F(Trts)	0.0742	0.0189	0.0489	0.1316	0.0000	0.0004
908	R_square	43.7	68.6	59.6	51.1	78.0	61.7

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

ONTARIO  
 New Liskeard  
 Alfalfa Registration C- 2 Cut  
 Expt. 1101  
 Seeded 2011

Code	Cultivar	2013 (kg/ha)		Tot13	Tot12	2yrTot
		Cut 1	Cut 2			
1432	OAC_SUPERIOR	6402	4861	11287	9844	21102
1577	STARBUCK	6060	4986	11019	9690	20663
1720	55V50	6251	5100	11338	10992	22447
1721	55H94	5386	4757	10063	9371	19594
1723	PS11A01	5527	4899	10432	9267	19770
1724	PS11A02	5977	5306	11298	9442	20731
1725	REBOUND_5_0	5649	5030	10794	8964	19692
1726	DSA01-T	4948	5559	10563	11104	21732
1727	DSA05-BR	6003	5394	11407	11190	22404
1728	CW055005	5117	5194	10220	8898	19115
1729	CW044019	5151	5038	10141	9610	19690
1735	QS-NR	5599	5005	10610	9321	20008
1736	DSB-18-T	6596	5293	11895	11367	23304
1737	LS603	6007	5111	11137	8998	20011
900	Mean	5762	5109	10872	9861	20733
901	CV	10.6	9.0	7.7	6.9	5.8
905	MCV	12.7	10.8	9.2	8.2	7.0
902	LSD	732.6	549.8	1004.8	812.1	1448.0
906	LSR	44.5	68.6	54.8	32.9	34.6
907	Pr>F(Trts)	0.0185	0.5910	0.1444	0.0000	0.0003
908	R_square	66.5	41.8	57.1	72.7	66.6

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

ONTARIO  
 Thunder Bay  
 Alfalfa Reg - 2 cut  
 Seeded 2011

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Code	Cultivar	2013 (kg/ha)		Tot13	Tot12	2yrTot
		Cut 1	Cut 2			
1432	OAC_SUPERIOR	1972	692	2664	3408	6072
1577	STARBUCK	1856	834	2690	3751	6440
1720	55V50	1958	876	2834	3989	6823
1721	55H94	2094	954	3048	3702	6750
900	Mean	1970	839	2809	3712	6521
901	CV	9	13	7	13	9
902	LSD	NS	168	310	NS	NS
907	Pr>F(Trts)	0.3680	0.0362	0.0714	0.4501	0.3499

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RCBD arrangement, 4 blocks {1234}

ONTARIO  
 New Liskeard  
 Alfalfa Reg G-3 Cut management  
 Expt. 1102  
 Seeded 2011

Code	Cultivar	2013 (kg/ha)				
		Cut 1	Cut 2	Tot13	Tot12	2yrTot
1432	OAC_SUPERIOR	5874	5844	11763	10903	22681
1577	STARBUCK	5320	5457	10814	9997	20574
1720	55V50	4942	5791	10771	10687	21186
1721	55H94	4940	5061	10024	10318	20155
1722	WL354HQ	5021	5053	9933	10118	20731
900	Mean	5220	5441	10661	10405	21065
901	CV	9.4	7.1	6.3	2.7	4.8
905	MCV	12.0	9.1	8.1	3.5	6.1
902	LSD	626.6	496.4	865.3	361.3	1290.4
906	LSR	67.1	62.7	47.3	39.9	51.1
907	Pr>F(Trts)	0.1175	0.0717	0.0399	0.0179	0.0748
908	R_square	82.4	72.6	83.9	95.3	85.5

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

ONTARIO  
 Elora  
 Alfalfa Registration A  
 Expt. 2886  
 Seeded 2010

Code	Cultivar	2013 (kg/ha)			Tot13	Tot12	Tot11	3yrTot
		Cut 1	Cut 2	Cut 3				
1432	OAC_SUPERIOR	4033	2128	1262	7429	6473	11595	25476
1525	FORECAST_100	3993	2054	1076	7105	6053	11205	24403
1577	STARBUCK	3799	2025	997	6813	6110	11698	24675
1654	4020MF	4369	2271	1156	7808	7200	12214	27141
1667	54Q32	4032	2101	1192	7310	6486	11462	25286
1683	4030	4028	2201	1225	7447	6754	12568	26767
1684	4010	4360	2335	1381	8079	7041	12770	27876
1685	CFL1004	4003	1952	1156	7093	5691	10863	23704
1686	VR_TOTAL	3873	1950	960	6775	5449	10904	23079
1687	CFL1006	3878	2119	1083	7093	6006	11502	24506
1688	CFL1001	4184	2191	1205	7600	6650	11891	26071
1689	CFL1002	4696	2564	1435	8707	7276	12573	28661
1690	CFL1003	4398	2395	1321	8122	6960	12762	27772
1691	CFL1008	4253	2314	1215	7801	6398	11463	25620
1692	CFL1009	4009	2275	1167	7443	6897	11319	25686
1693	CFL1007	4371	2554	1420	8333	7113	11753	27262
1694	MSSUNTRA-A21	4115	2156	1140	7376	6255	12419	26057
1695	PROLIFIC_II	3683	1883	1020	6582	5512	11307	23367
1696	4A415	3802	2122	1045	6949	6188	11857	24958
1697	CW_064004	4402	2216	1327	7963	6742	11056	25737
1698	CW_23017	3819	2007	1201	7037	6235	11376	24698
1699	CW_054004	3826	2031	1236	7078	5993	10776	23865
1700	QS_6530	4073	2344	1327	7727	6573	11461	25769
1701	QS_5523	4241	2252	1230	7726	6655	11909	26325
1702	QS_4506	4113	2288	1261	7687	6705	12004	26539
1703	AC_DALTON	3461	1729	807	5991	4873	10360	21018
1704	LANCER	3744	1912	1072	6725	5796	11780	24429
1705	FSG_420LH	3704	1837	1077	6641	5781	10945	23278
1706	FSG_329	3887	2133	1217	7230	6453	12254	25950
1707	CW053014	4247	2264	1304	7818	6392	11746	25834
1708	CW073012	3746	2154	1242	7145	6080	10811	24035
1709	IML04	3785	1845	933	6569	5724	11074	23438
1710	SF2202	4002	2005	1109	7124	5895	11707	24811
1711	SF2101	3819	1975	1027	6832	5999	11314	24172
900	Mean	4022	2135	1171	7328	6306	11609	25243
901	CV	6.4	6.9	12.3	5.8	8.6	5.4	5.3
905	MCV	7.5	8.1	14.5	6.9	10.1	6.4	6.3
902	LSD	301.8	173.9	169.9	503.5	639.2	740.1	1591.7
906	LSR	24.4	20.8	27.1	18.5	26.6	30.7	20.8
907	Pr>F(Trts)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
908	R_square	84.4	87.8	67.1	87.1	81.3	60.7	77.5

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

ONTARIO  
 New Liskeard  
 Alfalfa Reg B  
 Expt. 1003  
 Seeded 2010

Code	Cultivar	2013 (kg/ha)		Tot13	Tot12	Tot11	3yrTot
		Cut 1	Cut 2				
1432	OAC_SUPERIOR	6250	5453	11884	12016	11894	35549
1525	FORECAST_1000	6498	5086	11573	11215	11520	34453
1577	STARBUCK	5767	5213	10876	11014	11393	33341
1667	54Q32	6562	5255	11748	10999	11544	34225
1683	4030	6549	5356	11895	11759	12344	36127
1684	4010	6767	5104	11915	11657	12274	35826
1685	CFL1004	6244	4811	10999	10844	11612	33324
1686	CFL1005	5831	4636	10477	10206	10609	31231
1687	CFL1006	6299	5548	11888	11749	12316	35902
1688	CFL1001	6248	5684	11811	11269	11914	35242
1689	CFL1002	6897	5553	12479	11750	12410	36886
1690	CFL1003	6668	5317	12053	12191	12552	36504
1691	CFL1008	6726	5275	11945	11170	11450	34978
1692	CFL1009	5740	5191	10927	11024	11165	32997
1693	CFL1007	6762	5311	12028	10671	11352	34102
1694	MSSUNTRA-A21	6503	5122	11553	11945	11990	35548
1695	PROLIFIC_II	6315	4991	11289	11627	11878	34463
1696	4A415	6236	5496	11663	11433	12040	35402
1697	CW_064004	6052	5548	11585	11290	11346	34101
1698	CW_23017	6482	5204	11726	10568	10932	33010
1699	CW_054004	6194	5222	11466	10607	11520	33629
1703	AC_DALTON	6133	4611	10841	10447	11215	32474
1704	LANCER	5995	4769	10766	11058	11604	33249
1705	FSG_420LH	6550	4815	11359	10583	11414	33571
1706	FSG_329	6471	5342	11892	11168	11696	34780
1707	CW053014	6783	4985	11717	10967	11727	34382
1708	CW073012	6259	5269	11509	10601	11449	33702
1709	IML04	6144	4691	10827	11354	11529	33695
1710	SF2202	7072	5145	12218	11110	11787	35157
1711	SF2101	6348	4780	11218	11006	11533	33585
900	Mean	6378	5159	11538	11177	11667	34381
901	CV	8.7	6.4	6.3	4.3	3.5	3.3
905	MCV	10.3	7.5	7.4	5.1	4.2	3.9
902	LSD	655.3	389.0	852.5	574.1	487.0	1332.9
906	LSR	49.2	36.3	42.6	28.9	25.1	23.6
907	Pr>F(Trts)	0.1308	0.0000	0.0201	0.0000	0.0000	0.0000
908	R_square	62.5	67.8	67.4	87.3	89.6	88.9

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

ONTARIO  
 New Liskeard  
 Alfalfa Registration  
 Expt. 9002  
 Seeded 2009

Code	Cultivar	2013 (kg/ha)		Tot13	Tot12	Tot11	Tot10	4yrTot
		Cut 1	Cut 2					
1432	OAC_SUPERIOR	5757	4582	10269	9859	12301	9226	41614
1577	STARBUCK	5661	4294	9945	10146	11959	9502	41383
1648	ACTIS	5763	4659	10386	10133	11915	9665	42211
1667	54Q32	5830	4741	10559	9799	12041	8948	40874
1668	4S417	6524	4328	10920	11223	12761	9805	44567
1669	WL353LH	5315	3937	9246	9808	11778	8887	39791
1670	MAGNUM_VI_WET	5935	4577	10530	10794	12885	9812	43924
1671	SHOWDOWN	5890	4891	10839	9863	11994	8369	41410
1672	3010	5741	4208	10013	10385	12539	9730	42883
1673	ADRENALIN	5765	4742	10385	9982	12104	9096	41615
1674	LEGENDAIRY_5.0	5990	4365	10370	10055	11633	9391	41636
1675	CW_02013	5678	4496	10205	9715	12177	9384	41424
900	Mean	5821	4485	10306	10147	12174	9318	41944
901	CV	7.0	6.8	5.7	5.1	4.7	5.0	3.3
905	MCV	8.4	8.2	6.9	6.2	5.7	6.0	3.9
902	LSD	488.8	368.4	710.5	625.1	693.4	555.2	1651.8
906	LSR	40.4	38.6	42.5	41.5	55.4	38.5	34.6
907	Pr>F(Trts)	0.1034	0.0088	0.0559	0.0093	0.1399	0.0050	0.0068
908	R_square	66.4	62.9	65.2	70.9	53.4	71.7	72.4

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



ONTARIO  
 New Liskeard  
 Alfalfa  
 Expt. 8001  
 Seeded 2008

Code	Cultivar	2013 (kg/ha)		Tot13	Tot12	Tot11	Tot10	Tot09	5yrTot
		Cut 1	Cut 2						
1432	OAC_SUPERIOR	6176	4228	10367	8749	11779	9170	10431	50256
1577	STARBUCK	5492	4069	9577	8451	10658	8352	9933	47246
1652	55V48	6037	4330	10362	9415	11850	9011	10426	51906
1665	WL363HQ	6279	4188	10561	9289	11090	8094	10007	48772
1666	L33HD	6386	4136	10456	9519	11378	8798	9943	49484
900	Mean	6074	4190	10265	9084	11351	8685	10148	49533
901	CV	5.4	4.5	4.3	6.8	6.4	6.0	6.6	2.7
905	MCV	7.0	5.7	5.5	8.7	8.2	7.7	8.5	3.5
902	LSD	423.5	239.7	562.9	789.3	935.6	665.7	857.7	1743.3
906	LSR	47.4	92.0	57.2	73.9	78.5	61.8	172.0	37.4
907	Pr>F(Trts)	0.0350	0.4153	0.0766	0.1774	0.2338	0.0801	0.6815	0.0147
908	R_square	86.1	86.4	88.9	73.6	71.1	76.5	49.0	88.1

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

ONTARIO  
 New Liskeard  
 Alfalfa  
 Expt. 7007  
 Seeded 2007

Code	Cultivar	2013 (kg/ha)		Tot13	Tot12	Tot11	Tot10	Tot09	5yrTot
		Cut 1	Cut 2						
1432	OAC_SUPERIOR	5558	5048	10564	8369	10400	8176	9405	46599
1638	54V09	5263	5402	10831	7570	9713	8030	10079	45749
1652	55V48	5281	5228	10327	7169	9822	7358	9286	43556
1653	DS450	5644	4469	10112	8011	9681	7917	10409	45895
1654	DS723	5550	5025	10751	7681	9725	7898	9670	45979
1655	L447HD	5208	4572	10038	7305	9404	7627	9409	43636
1656	13017	5507	5661	10951	8219	9825	7795	9693	46934
1657	15029	5049	5591	10688	8044	9942	7762	9966	47155
1660	QS0131	4943	4352	9321	8058	9415	7753	10111	45439
1661	SF2004	5559	4960	10458	7767	10177	8472	10394	46173
911	FILLER	5094	4862	9783	7877	9792	7857	10010	45752
900	Mean	5332	5016	10348	7825	9809	7877	9857	45715
901	CV	9.6	5.7	7.4	7.3	3.9	6.8	6.9	4.5
905	MCV	13.7	8.1	10.4	10.3	5.5	9.7	9.8	6.4
902	LSD	728.0	404.7	1078.7	804.2	544.0	762.2	962.0	2937.6
906	LSR	103.8	30.9	66.2	67.0	54.6	68.4	85.7	81.6
907	Pr>F(Trts)	0.7512	0.0003	0.3297	0.3133	0.1868	0.6670	0.6047	0.5315
908	R_square	35.0	80.1	44.1	70.3	88.3	61.4	55.8	69.6

RCBD arrangement, 3 blocks {123}  
 Nearest-neighbour covariance adjusted.

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

Code	Cultivar	2013 Yield (kg/ha)		
		Cut 1	Cut 2	Total
910	filler	7301	4927	12296
1325	MAGNUM_IV	6906	4596	11574
1409	AFFINITY+Z	6750	4622	11433
1432	OAC_SUPERIOR	6961	4744	11733
1498	134	6962	4696	11605
1521	MAGNUM_3801	6997	4889	11804
1525	FORECAST_100	7112	4892	12080
1537	VALIANT	6949	4890	11866
1577	STARBUCK	7056	4813	11929
1599	WL319HQ	7775	4472	12322
1600	4_2	6741	4555	11293
1603	WL357HQ	6608	4476	11118
1610	SA034	7185	4850	12097
1616	53Q30	6928	4515	11353
1617	WL_348_AP	7053	4684	11746
1618	WL_345_LH	7213	4408	11592
1619	EVERMORE	6773	5020	11669
1620	MARVEL	7281	4559	11837
1625	QS04027	6675	4760	11519
1636	CW75046	6887	4870	11664
1637	53H92	6500	4295	10756
1646	WL343HQ	6582	4707	11255
1649	STELLAR_FG	7040	5226	12241
1652	55V48	6934	4806	11839
1659	4A421	7387	4829	12208
1664	SUPER_NOVA	7060	4170	11195
1667	54Q32	7122	4903	12020
1675	CW_02013	6864	4592	11376
1678	SURVIVOR	7131	4590	11690
1715	55V12	7309	5020	12309
900	Mean	7001	4713	11714
901	CV	8	5.8	5.8
902	LSD	658.4	320.3	797.9
907	Pr>F(Trts)	0.6523	0.0001	0.2006
908	R_square	60.1	67.1	60.3

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

		2013 yield (kg/ha)		
		Cut 1	Cut 2	Total
1325	MAGNUM_IV	5883	5346	11249
1409	AFFINITY+Z	6115	5388	11596
1432	OAC_SUPERIOR	6018	5707	11738
1481	APPROVED	5393	5451	10812
1482	WINTERGOLD	5875	5920	11780
1498	134	6281	6046	12281
1521	MAGNUM_3801	5847	5529	11366
1525	FORECAST_100	5766	5623	11354
1537	VALIANT	6251	5712	11957
1598	54H11	6369	5817	12218
1599	WL319HQ	6254	5817	12083
1600	4_2	5800	5652	11399
1603	WL357HQ	6202	6057	12182
1614	94023	6259	6030	12277
1617	WL_348_AP	6146	5911	12212
1618	WL_345_LH	5876	5218	11092
1619	EVERMORE	6116	5450	11512
1624	QS05009	5275	6141	11384
1630	FSG400LH	5943	5161	11097
1636	CW75046	5695	5854	11628
1637	53H92	5858	5256	11037
1646	WL343HQ	6381	6196	12527
1649	Stellar_FG	6090	6394	12549
1652	55V48	5997	6255	12207
1659	4A421	6321	6363	12673
1664	SUPER_NOVA	5866	5039	11018
1667	54Q32	6276	6286	12593
1675	CW_02013	6187	6244	12416
1676	QS44031	5929	6515	12372
1677	QS4010	6232	5636	11818
1678	SURVIVOR	6057	5830	11943
1680	RESPONSE_WT	5588	6002	11618
900	Mean	6005	5808	11812
901	CV	6.3	5.8	4.9
902	LSD	444.2	396.4	679.9
907	Pr>F(Trts)	0.0082	0	0
908	R_square	52.1	78	70.5

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

ONTARIO

Elora

Alfalfa Performance, 4 cut management

Expt.

2896

Seeded 2010

Code	Cultivar	2013 (kg/ha)				Total
		Cut 1	Cut 2	Cut 3	Cut 4	
910	filler	2637	1310	1194	439	5572
1325	MAGNUM_IV	2672	1203	1123	359	5318
1409	AFFINITY+Z	2503	1123	948	342	4895
1432	OAC_SUPERIOR	2694	1212	1126	366	5424
1498	134	2843	1263	1062	407	5550
1521	MAGNUM_3801	2586	1152	1106	367	5224
1525	FORECAST_100	2641	1134	1085	383	5288
1537	VALIANT	2410	1120	976	270	4809
1577	STARBUCK	2308	1158	981	372	4881
1599	WL319HQ	2737	1175	1103	430	5515
1600	SATELLITE	2673	1148	1133	392	5345
1603	WL357HQ	2747	1300	1236	529	5754
1610	FOREMOST	2724	1208	1074	501	5529
1616	53Q30	2244	1060	1089	339	4730
1617	WL348AP	2419	1118	989	355	4883
1618	WL345LH	2334	1046	1035	308	4734
1619	EVERMORE	2681	1119	1010	377	5199
1620	MARVEL	2686	1265	1103	468	5504
1625	QS04027	2470	1077	1009	330	4862
1636	RADAR	2452	1158	986	345	4943
1637	53H92	2371	1012	886	337	4668
1646	WL343HQ	2904	1408	1642	526	6418
1649	STELLAR_FG	2666	1255	1047	377	5368
1652	55V48	2501	1042	992	382	4832
1659	4A421	2573	1249	1190	431	5466
1664	SUPER_NOVA	2639	1142	1037	300	5059
1667	54Q32	2806	1280	1211	438	5684
1675	CW_2013	2776	1225	1083	368	5476
1678	SURVIVOR	2739	1146	1175	362	5444
1715	55V12	2730	1196	1145	448	5515
900	Mean	2605	1176	1092	388	5263
902	LSD(0.05)	331	167	224	129	540
901	CV	9.0	10.0	14.4	23.2	7.3

RCBD 4 replicates, nearest-neighbour adjustment

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

Code	Cultivar	2013 (kg/ha)			Total
		Cut 1	Cut 2	Cut 3	
910	filler	3583	1879	990	6434
1325	MAGNUM_IV	3778	1802	892	6506
1409	AFFINITY+Z	3618	1675	789	6063
1432	OAC_SUPERIOR	3831	1905	1000	6804
1498	134	4006	1915	1011	6942
1521	MAGNUM_3801	3754	1804	856	6415
1525	FORECAST_100	3723	1892	948	6539
1537	VALIANT	3777	1823	899	6497
1577	STARBUCK	3957	1861	945	6751
1599	WL319HQ	3861	1900	961	6671
1600	SATELLITE	3588	1696	909	6314
1603	WL357HQ	3926	1972	1085	7021
1610	FOREMOST	3953	2021	1030	6988
1616	53Q30	3584	1808	941	6307
1617	WL348AP	3719	1860	905	6580
1618	WL345LH	3524	1662	839	6021
1619	EVERMORE	3700	1833	928	6455
1620	MARVEL	3934	2005	1047	7065
1625	QS04027	3930	2052	1049	7018
1636	RADAR	3561	1879	942	6394
1637	53H92	3309	1724	791	5835
1646	WL343HQ	3854	2081	1065	6997
1649	STELLAR_FG	3956	2178	1101	7221
1652	55V48	3740	1894	942	6594
1659	4A421	3995	2097	1089	7144
1664	SUPER_NOVA	3511	1672	841	6025
1667	54Q32	3902	2031	1048	6994
1675	CW_2013	3881	1850	964	6661
1678	SURVIVOR	4044	2014	968	7023
1715	55V12	4013	1988	906	6919
900	Mean	3784	1892	956	6639
902	LSD(0.05)	348	183	118	547
901	CV	6.5	6.9	8.6	5.8

RCBD 4 replicates, nearest-neighbour adjustment

ONTARIO  
 Elora  
 Red Clover Reg A  
 Expt. 2913  
 Seeded 2012

Code	Cultivar	2013 (kg/ha)			Tot13
		Cut 1	Cut 2	Cut 3	
4073	BELLE	5761	2386	1120	9267
4079	AC_ENDURE	5549	2533	1092	9174
4080	TEMPUS	6919	2724	1023	10666
4088	GS-11-02	5913	2445	1110	9469
900	Mean	6035	2522	1086	9644
901	CV	8.1	6.8	9.8	6.4
905	MCV	10.6	8.8	12.6	8.3
902	LSD	637.0	221.0	137.3	802.4
906	LSR	46.5	65.4	142.0	53.8
907	Pr>F(Trts)	0.0151	0.0879	0.5881	0.0261
908	R_square	70.9	75.6	60.2	64.3

RCBD arrangement, 4 blocks {1234}

ONTARIO  
 New Liskeard  
 Bromegrass Reg A  
 Expt. 1103  
 Seeded 2011

Code	Cultivar	2013 (kg/ha)		Tot13	Tot12	2yrTot
		Cut 1	Cut 2			
2039	BRAVO	5793	2447	8240	10403	18643
2051	RADISSON	5914	2222	8137	10546	18683
2054	PADDOCK	2919	1516	4435	11412	15847
2057	FLEET	6117	3126	9243	10778	20020
2060	PEAK	6125	3023	9149	10544	19693
2068	ARMADA	5819	3595	9414	11218	20631
2069	ADMIRAL	5257	3778	9035	10568	19603
900	Mean	5421	2815	8236	10781	19017
901	CV	11.4	11.4	8.5	9.1	7.5
905	MCV	13.9	14.0	10.4	11.1	9.2
902	LSD	754.6	393.0	854.8	1199.4	1755.7
906	LSR	23.5	17.4	17.2	118.8	36.7
907	Pr>F(Trts)	0.0000	0.0000	0.0000	0.7140	0.0045
908	R_square	82.6	94.3	90.4	27.5	63.8

RCBD arrangement, 4 blocks {1234}



ONTARIO  
 Elora  
 Bromegrass Reg A  
 Expt. 2906  
 Seeded 2011

Code	Cultivar	2013 (kg/ha)			Tot13	Tot12	2yrTot
		Cut 1	Cut 2	Cut 3			
2039	BRAVO	4593	1583	727	6903	4887	11789
2051	RADISSON	4240	1509	825	6575	4224	10798
2054	PADDOCK	2632	826	574	4033	2598	6631
2057	FLEET	5641	1446	1165	8252	5133	13386
2060	PEAK	4337	1773	898	7007	4876	11883
2068	ARMADA	6496	2014	1550	10060	6287	16348
2069	ADMIRAL	6277	1588	1661	9527	5660	15187
900	Mean	4888	1534	1057	7480	4809	12289
901	CV	7.4	14.1	20.0	8.6	7.9	7.8
905	MCV	9.0	17.3	24.5	10.6	9.7	9.6
902	LSD	441.2	265.5	258.7	792.8	466.9	1174.4
906	LSR	11.4	22.3	23.8	13.2	12.7	12.1
907	Pr>F(Trts)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
908	R_square	95.7	83.2	84.5	93.8	92.9	94.2

RCBD arrangement, 4 blocks {1234}

ONTARIO  
Kemptville  
Bromegrass Reg A  
Seeded 2011

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Code	Cultivar	2013 (kg/ha)		
		Cut 1	Cut 2	Tot13
2039	BRAVO	2939	2836	5775
2051	RADISSON	2666	2823	5489
2054	PADDOCK	2880	2911	5791
2057	FLEET	4131	1971	6102
2060	PEAK	3184	2485	5669
2068	ARMADA	4117	2452	6569
2069	ADMIRAL	4186	2350	6536
900	Mean	3443	2547	5990
901	CV	13.4	23.0	11.4
902	LSD	710.8	903.0	1049.2

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RCBD arrangement, 4 blocks {1234}

ONTARIO  
 Elora  
 Orchard grass Yield  
 Expt. 2890  
 Seeded 2010

Code	Cultivar	2013 (kg/ha)			Tot13
		Cut 1	Cut 2	Cut 3	
3066	RAPIDO	3888	915	1084	5887
3079	OKAY	3498	887	822	5207
3086	HAYMATE	3755	942	1011	5709
3094	ORCA	4370	931	1146	6447
3096	DIVIDEND_VL	3309	864	991	5165
3110	OG01	3207	798	800	4804
3114	OG06	3098	806	843	4747
900	Mean	3614	875	939	5428
901	CV	8.0	15.0	12.1	7.4
905	MCV	9.8	18.3	14.7	9.0
902	LSD	353.8	160.3	138.4	491.0
906	LSR	27.8	110.7	39.9	28.9
907	Pr>F(Trts)	0.0001	0.6934	0.0008	0.0001
908	R_square	89.8	59.1	72.5	88.4

RCBD arrangement, 4 blocks {1234}

ONTARIO  
 Elora  
 Late Orchardgrass Reg A  
 Expt. 2904  
 Seeded 2011

Code	Cultivar	2013 (kg/ha)			Tot13	Tot12	2yrTot
		Cut 1	Cut 2	Cut 3			
3079	OKAY	4754	1389	1198	7341	4644	11985
3086	HAYMATE	4720	1527	1604	7851	4486	12337
3096	DIVIDEND_VL	3663	1358	1163	6183	3718	9901
3118	AC_KILLARNEY	4208	1284	1060	6552	3953	10505
3119	AC_KOOTENAY	3337	1212	777	5327	3132	8458
900	Mean	4136	1354	1160	6651	3987	10637
901	CV	7.3	15.1	11.9	7.5	6.8	6.3
905	MCV	9.1	19.1	15.0	9.5	8.6	7.9
902	LSD	378.3	258.5	174.4	630.1	342.5	844.8
906	LSR	26.7	82.1	21.1	25.0	22.6	21.8
907	Pr>F(Trts)	0.0001	0.3124	0.0001	0.0001	0.0000	0.0000
908	R_square	89.6	55.0	86.5	88.0	89.9	91.0

RCBD arrangement, 4 blocks {1234}

ONTARIO  
Thunder Bay  
Late Orchardgrass Reg A  
Seeded 2012

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Code	Cultivar	2013 (kg/ha)		
		Cut 1	Cut 2	Tot13
3079	OKAY	2514	1915	4429
3120	ECHELON	3168	1171	4339
3096	DIVIDEND_VL	2864	1607	4471
3113	PROPER	3644	1380	5025
900	Mean	3048	1518	4566
901	CV	11	11	8
902	LSD	516	257	579
907	Pr>F(Trts)	0.0048	0.0006	0.0912

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RCBD arrangement, 4 blocks {1234}

ONTARIO  
 Elora  
 Perennial Ryegrass Reg A  
 Expt. 2888  
 Seeded 2010

Code	Cultivar	2013 (kg/ha)			Tot13	Tot12	Tot11	3yrTot
		Cut 1	Cut 2	Cut 3				
8536	BARMULTRA_II	4146	672	421	5240	2985	16077	24302
8537	DYNAMIC	2575	303	297	3175	2984	8306	14465
8538	INTRODA	4223	398	302	4923	4468	9968	19359
8539	TORONTO	4567	488	269	5325	4338	10676	20338
8540	CHICAGO	3543	346	286	4175	3715	9940	17830
900	Mean	3811	442	315	4568	3698	10993	19259
901	CV	10.6	48.5	18.9	11.5	10.2	5.4	4.7
905	MCV	13.3	61.1	23.8	14.5	12.8	6.8	5.9
902	LSD	507.2	269.8	74.9	661.2	475.2	751.9	1144.2
906	LSR	25.5	73.1	49.2	30.8	32.0	9.7	11.6
907	Pr>F(Trts)	0.0002	0.1804	0.0242	0.0005	0.0002	0.0000	0.0000
908	R_square	88.4	45.2	71.0	84.1	84.1	97.2	95.6

RCBD arrangement, 4 blocks {1234}

ONTARIO  
 Elora  
 Perennial Ryegrass Reg A  
 Expt. 2905  
 Seeded 2011

Code	Cultivar	2013 (kg/ha)			Tot13	Tot12	2yrTot
		Cut 1	Cut 2	Cut 3			
8516	BARSPRINTER	4499	372	160	5031	4240	9272
8519	REMINGTON	5737	721	445	6903	4621	11525
8537	DYNAMIC	3102	1215	523	4840	2130	6970
8538	INTRODA	5433	500	420	6352	3805	10157
8539	TORONTO	4496	431	428	5355	4156	9511
8540	CHICAGO	4513	376	402	5292	3524	8815
8542	MARA	4818	320	384	5521	4178	9699
8543	RESPECT	5129	312	374	5815	4178	9993
900	Mean	4716	531	392	5639	3854	9493
901	CV	9.7	43.8	22.7	9.2	8.9	6.1
905	MCV	14.0	63.0	32.6	13.2	12.8	8.7
902	LSD	660.2	334.7	127.9	745.8	491.4	826.4
906	LSR	25.1	37.1	35.2	36.1	19.7	18.1
907	Pr>F(Trts)	0.0003	0.0045	0.0115	0.0039	0.0000	0.0000
908	R_square	83.7	74.1	69.7	77.7	88.9	89.9

RCBD arrangement, 4 blocks {1234}

ONTARIO  
 Elora  
 Perennial Ryegrass Reg B Spring Seeding  
 Expt. 2916  
 Seeded 2012

Code	Cultivar	2013 (kg/ha)			Tot13
		Cut 1	Cut 2	Cut 3	
8519	REMINGTON	4774	2582	797	8153
8533	KENTAUR	6395	2883	994	10272
8535	BARUTTI	5208	1631	700	7539
8538	INTRODA	5876	1969	724	8569
8539	TORONTO	5907	1574	744	8226
8540	CHICAGO	4878	1697	861	7435
8542	MARA	4954	2409	747	8110
8543	RESPECT	5885	1689	789	8364
8544	BARSPLINTER	5020	2371	563	7953
8545	ORANTAS_2N	4337	1383	510	6230
8546	MATHILDE_4N	5351	1806	720	7877
8547	POLIM 4N	4170	2156	1036	7361
8548	LOFA	6748	3735	753	11236
8549	PERSEUS	7016	3824	1088	11928
900	Mean	5465	2265	788	8518
901	CV	8.9	10.0	13.6	7.0
905	MCV	10.7	12.0	16.3	8.4
902	LSD	585.7	270.9	128.4	719.4
906	LSR	20.6	11.1	22.2	12.6
907	Pr>F(Trts)	0.0000	0.0000	0.0000	0.0000
908	R_square	81.6	94.2	82.7	90.7

RCBD arrangement, 4 blocks {1234}



ONTARIO  
 Elora  
 Perennial Ryegrass Fall Seeding  
 Expt. 2924  
 Seeded 2012

Code	Cultivar	2013 (kg/ha)			Tot13
		Cut 1	Cut 2	Cut 3	
8519	REMINGTON	7134	3689	1036	11859
8533	KENTAUR	6829	3357	1266	11452
8535	BARUTTI	7429	2196	1054	10679
8538	INTRODA	7327	2930	1104	11361
8539	TORONTO	7440	2231	1091	10761
8540	CHICAGO	7473	2495	1122	11090
8542	MARA	6281	3390	909	10579
8543	RESPECT	6379	2348	1067	9794
8516	BARSPRINTER	7065	2900	731	10695
8545	ORANTAS_2N	4580	2264	934	7778
8546	MATHILDE_4N	6075	2717	952	9744
8547	POLIM 4N	6566	2837	1302	10705
8548	LOFA	7813	4573	1016	13403
8549	PERSEUS	7637	4865	1216	13717
900	Mean	6910	3055	1059	11025
901	CV	11.5	11.7	16.5	8.7
905	MCV	13.8	14.0	19.8	10.5
902	LSD	955.8	428.2	210.1	1153.7
906	LSR	29.6	16.0	36.8	19.4
907	Pr>F(Trts)	0.0005	0.0000	0.0051	0.0000
908	R_square	60.0	88.4	55.9	74.6

RCBD arrangement, 4 blocks {1234}

ONTARIO  
 New Liskeard  
 Late Timothy  
 Expt. 7001  
 Seeded 2007

Code	Cultivar	2013 (kg/ha)		Tot13	Tot12	Tot11	Tot10	Tot09	5yrTot
		Cut 1	Cut 2						
6002	CLIMAX	5299	1542	6841	5465	6558	5831	9093	33788
6026	ITASCA	5803	2090	7893	5704	7758	5558	8164	35077
6166	BARFLEO	4595	1537	6132	3890	6610	5770	9110	31512
6167	BOR2005	5786	1785	7571	5605	7385	5664	8126	34351
6168	BARPENTA	5005	1728	6733	4060	6057	5988	8291	31128
6169	KARA	5405	2111	7516	5449	7845	5721	7916	34445
900	Mean	5315	1799	7114	5029	7036	5755	8450	33384
901	CV	8.4	17.6	8.8	9.6	8.8	9.9	5.0	4.2
905	MCV	10.4	21.8	11.0	11.8	10.9	12.2	6.2	5.2
902	LSD	552.0	393.0	779.5	595.3	765.0	704.8	527.7	1745.5
906	LSR	45.7	68.5	44.3	32.8	42.8	164.0	44.2	44.2
907	Pr>F(Trts)	0.0119	0.0719	0.0119	0.0001	0.0043	0.9225	0.0033	0.0045
908	R_square	83.5	57.0	80.4	84.5	70.3	20.3	69.4	78.5

RCBD arrangement, 4 blocks {1234}

ONTARIO  
 New Liskeard  
 Late Timothy  
 Expt. 9003  
 Seeded 2009

Code	Cultivar	2013 (kg/ha)		Tot13	Tot12	Tot11	Tot10	4yrTot
		Cut 1	Cut 2					
6002	CLIMAX	5310	537	5847	5896	9816	9426	30985
6026	ITASCA	5245	1169	6414	6870	11357	9931	34572
6066	NORMAX	5852	1479	7331	7346	11647	10512	36836
6086	ALEXANDER	5484	1274	6758	6935	11054	9945	34692
6136	EXPRESS	5856	1611	7467	7698	10725	10215	36106
6138	AURORA	5605	1407	7013	6775	10686	10323	34798
6161	TREASURE	6000	1783	7783	7756	11228	10527	37294
6172	ARLAKA	5292	1035	6327	6742	10211	9698	32977
900	Mean	5581	1287	6867	7002	10840	10072	34782
901	CV	6.0	18.1	6.1	6.3	6.3	7.3	3.4
905	MCV	7.2	22.0	7.5	7.7	7.7	8.9	4.2
902	LSD	404.1	283.3	512.4	539.1	833.1	899.3	1453.2
906	LSR	53.5	22.7	26.5	29.0	45.5	81.7	23.0
907	Pr>F(Trts)	0.0199	0.0000	0.0000	0.0002	0.0190	0.3834	0.0000
908	R_square	73.6	79.7	79.6	74.9	56.1	37.2	80.9

RCBD arrangement, 4 blocks {1234}

ONTARIO  
 Elora  
 Late Timothy Reg A  
 Expt. 2887  
 Seeded 2010

Code	Cultivar	2013 (kg/ha)		Tot13	Tot12	Tot11	3yrTot
		Cut 1	Cut 2				
6002	CLIMAX	4002	300	4302	4141	7602	16046
6026	ITASCA	5000	436	5436	5083	9202	19721
6066	NORMAX	4691	522	5214	4928	8815	18956
6081	MARIPOSA	5169	403	5572	4994	9449	20015
6086	ALEXANDER	4602	431	5033	4545	8579	18158
6136	EXPRESS	4772	430	5202	5224	10776	21202
6138	AURORA	4910	387	5297	4344	8976	18617
6161	TREASURE	5320	373	5693	4721	8667	19081
6173	TIFFANY	4261	493	4753	4381	8939	18074
6174	BOR_88060	4925	519	5444	5502	8724	19670
6175	BOR_01025	4307	408	4715	4588	8401	17704
900	Mean	4723	428	5151	4768	8921	18840
901	CV	8.5	27.3	8.2	7.5	6.1	4.6
905	MCV	10.2	32.8	9.9	9.0	7.3	5.5
902	LSD	481.5	140.1	509.0	429.7	652.4	1032.9
906	LSR	36.5	63.0	36.6	31.6	20.6	20.0
907	Pr>F(Trts)	0.0014	0.2855	0.0019	0.0002	0.0000	0.0000
908	R_square	81.1	52.5	81.9	81.6	82.4	89.6

RCBD arrangement, 4 blocks {1234}

ONTARIO  
 Thunder Bay  
 Late Timothy Reg B  
 Seeded 2011

Code	Cultivar	2013 (kg/ha)		Tot13	Tot12	2yrTot
		Cut 1	Cut 2			
6002	CLIMAX	4307	1461	5767	5692	11459
6026	ITASCA	4319	2325	6643	5936	12579
6066	NORMAX	5082	2360	7441	5928	13369
6081	MARIPOSA	4701	1658	6359	5372	11732
6086	ALEXANDER	4529	1931	6460	5463	11923
6136	EXPRESS	4371	1888	6259	6704	12963
6161	TREASURE	5034	1774	6808	5520	12328
6174	BOR88060	4413	1811	6223	5503	11727
6175	BOR01025	4090	1798	5888	5397	11286
900	Mean	4538	1889	6428	5724	12152
901	CV	9	20	10	7	7
902	LSD	587	539	979	601	1305
907	Pr>F(Trts)	0.0231	0.0404	0.0600	0.0028	0.0397

RCBD arrangement, 4 blocks {1234}

ONTARIO  
 Elora  
 Late Timothy Reg A  
 Expt. 2903  
 Seeded 2011

Code	Cultivar	2013 (kg/ha)		Tot13	Tot12	2yrTot
		Cut 1	Cut 2			
6002	CLIMAX	5222	487	5709	5144	10853
6026	ITASCA	6344	779	7124	5290	12414
6066	NORMAX	5894	660	6554	4873	11427
6081	MARIPOSA	6322	851	7174	5078	12252
6086	ALEXANDER	5433	618	6051	5506	11557
6136	EXPRESS	6328	824	7152	5540	12692
6138	AURORA	6067	702	6768	5141	11909
6161	TREASURE	6633	648	7282	5977	13259
6176	AC_PRATT	6395	821	7216	4854	12070
900	Mean	6071	710	6781	5267	12048
901	CV	8.6	21.3	9.2	6.8	4.6
905	MCV	10.4	25.8	11.1	8.3	5.6
902	LSD	628.4	183.3	752.7	435.5	669.7
906	LSR	44.5	50.3	47.9	38.8	27.8
907	Pr>F(Trts)	0.0109	0.0394	0.0105	0.0041	0.0001
908	R_square	59.0	64.3	61.6	78.3	82.5

RCBD arrangement, 4 blocks {1234}

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

Code	Cultivar	2013 (kg/ha)		Tot13	Tot12	2yrTot
		Cut 1	Cut 2			
6002	CLIMAX	5755	3014	8769	6881	15650
6026	ITASCA	6278	3205	9482	7617	17100
6066	NORMAX	6661	3607	10268	8105	18373
6081	MARIPOSA	6799	3203	10002	7516	17518
6086	ALEXANDER	6049	3267	9316	6994	16310
6136	EXPRESS	5811	3747	9558	7874	17432
6138	AURORA	6488	2597	9085	7193	16278
6161	TREASURE	6790	3691	10481	7866	18347
6176	AC_PRATT	6469	2769	9238	6990	16228
900	Mean	6344	3233	9578	7448	17026
901	CV	7.6	11.3	6.2	5.1	4.7
905	MCV	9.2	13.7	7.5	6.1	5.7
902	LSD	581.4	443.9	714.5	456.9	971.8
906	LSR	55.7	38.6	41.7	37.3	35.7
907	Pr>F(Trts)	0.0267	0.0014	0.0063	0.0004	0.0004
908	R_square	52.2	93.3	86.4	69.4	83.9

RCBD arrangement, 4 blocks {1234}

ONTARIO  
 Elora  
 Late Timothy Reg A  
 Expt. 2915  
 Seeded 2012

Code	Cultivar	2013 (kg/ha)		
		Cut 1	Cut 2	Tot13
6002	CLIMAX	5789	2953	8743
6026	ITASCA	5824	3634	9459
6066	NORMAX	5310	3708	9017
6086	ALEXANDER	5776	3550	9326
6136	EXPRESS	6551	3979	10530
6138	AURORA	5439	3082	8521
6161	TREASURE	6485	4125	10611
6177	SUMMERGRAZE	5713	3273	8986
900	Mean	5861	3538	9399
901	CV	8.4	6.7	6.2
905	MCV	10.3	8.2	7.6
902	LSD	601.2	288.7	709.9
906	LSR	48.4	24.6	34.0
907	Pr>F(Trts)	0.0172	0.0000	0.0002
908	R_square	68.3	84.7	76.8

RCBD arrangement, 4 blocks {1234}



ONTARIO  
 New Liskeard  
 Late Timothy Reg A  
 Expt. 1204  
 Seeded 2012

Code	Cultivar	2013 (kg/ha)		
		Cut 1	Cut 2	Tot13
6002	CLIMAX	8381	4462	12843
6026	ITASCA	8909	5127	14036
6066	NORMAX	7895	5686	13582
6086	ALEXANDER	7927	5001	12928
6136	EXPRESS	8238	5263	13501
6138	AURORA	9246	4189	13435
6161	TREASURE	8573	5879	14452
6177	SUMMERGRAZE	8005	4900	12905
900	Mean	8397	5064	13460
901	CV	9.3	9.1	6.8
905	MCV	11.3	11.1	8.2
902	LSD	947.8	561.1	1106.9
906	LSR	70.2	33.2	68.8
907	Pr>F(Trts)	0.1990	0.0006	0.1921
908	R_square	44.6	95.0	76.2

RCBD arrangement, 4 blocks {1234}

ONTARIO  
 Kemptville  
 Late Timothy Reg B  
 Seeded 2012

Code	Cultivar	2013 (kg/ha)		
		Cut 1	Cut 2	Tot13
6002	CLIMAX	4738	2493	7231
6026	ITASCA	4970	2635	7605
6066	NORMAX	4294	2851	7145
6086	ALEXANDER	4304	2681	6985
6136	EXPRESS	5386	2697	8083
6138	AURORA	4512	2358	6870
6161	TREASURE	5346	2641	7987
6174	BOR88060	5355	2207	7562
6175	BOR1025	5095	1914	7009
6176	AC_PRATT	4925	2255	7180
900	Mean	4893	2473	7366
901	CV	9.8	11.3	8.3
902	LSD	695.4	403.6	890.0

RCBD arrangement, 4 blocks {1234}

ONTARIO  
 New Liskeard  
 Tall Fescue  
 Expt. 7003  
 Seeded 2007

Code	Cultivar	2013 (kg/ha)		Tot13	Tot12	Tot11	Tot10	Tot09	5yrTot
		Cut 1	Cut 2						
5028	CARNIVAL	3767	3237	7004	6578	5506	7788	9333	36209
5037	BARELITE	3039	2531	5570	4718	4154	5941	7630	28013
5523	COURTENAY	3901	3047	6948	5878	6581	7517	9151	36075
5526	KOKANEE	3689	3431	7119	6409	6348	7473	8921	36271
900	Mean	3599	3061	6660	5896	5647	7180	8759	34142
901	CV	10.3	10.7	5.4	8.4	8.2	2.7	6.1	3.4
905	MCV	13.3	13.8	6.9	10.9	10.6	3.5	7.9	4.4
902	LSD	480.1	422.6	461.9	641.9	600.5	249.7	691.8	1516.5
906	LSR	55.7	47.0	29.8	34.5	24.7	13.5	40.6	18.4
907	Pr>F(Trts)	0.0387	0.0191	0.0006	0.0022	0.0002	0.0000	0.0060	0.0000
908	R_square	80.6	66.1	90.3	80.1	90.5	96.4	75.5	94.6

RCBD arrangement, 4 blocks {1234

ONTARIO  
 New Liskeard  
 Tall Fescue Reg A  
 Expt. 1203  
 Seeded 2012

Code	Cultivar	2013 (kg/ha)		
		Cut 1	Cut 2	Tot13
5028	CARNIVAL	8485	4768	13253
5044	BAR_FAF118701	8917	3362	12279
5045	BAR_FAF118702	8672	3586	12258
5046	TOWER	8041	4221	12262
5047	HYMARK	9540	3789	13330
5523	COURTENAY	8060	4962	13022
900	Mean	8619	4115	12734
901	CV	7.4	8.4	6.5
905	MCV	9.2	10.4	8.1
902	LSD	790.6	426.6	1028.0
906	LSR	52.7	26.7	96.0
907	Pr>F(Trts)	0.0382	0.0000	0.2237
908	R_square	56.9	93.1	72.8

RCBD arrangement, 4 blocks {1234}

ONTARIO  
 Elora  
 Tall Fescue Reg A  
 Expt. 2914  
 Seeded 2012

Code	Cultivar	2013 (kg/ha)			Tot13
		Cut 1	Cut 2	Cut 3	
5028	CARNIVAL	3320	3036	2445	8801
5044	BAR_FAFL_118	3599	2618	2007	8224
5045	BAR_FAFL_118	3689	2558	1971	8219
5046	TOWER	3957	3279	2189	9425
5047	HYMARK	3682	2618	2039	8339
5523	COURTENAY	3560	3346	2089	8995
900	Mean	3634	2909	2123	8667
901	CV	4.3	7.2	7.3	3.6
905	MCV	6.4	10.7	10.8	5.3
902	LSD	233.0	310.7	228.7	463.6
906	LSR	36.6	39.5	48.3	38.4
907	Pr>F(Trts)	0.0134	0.0023	0.0338	0.0042
908	R_square	75.2	84.1	76.5	85.1

RCBD arrangement, 3 blocks {123}

ONTARIO  
Thunder Bay  
Tall Fescue Reg B  
Seeded 2012

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Code	Cultivar	2013 (kg/ha)		
		Cut 1	Cut 2	Tot13
5028	CARNIVAL	3162	2737	5899
5046	TOWER	3279	2585	5863
5523	COURTENAY	3554	2589	6143
900	Mean	3332	2637	5968
901	CV	17	10	11
902	LSD	NS	NS	NS
907	Pr>F(Trts)	0.6224	0.6843	0.8101

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RCBD arrangement, 4 blocks {1234}

ONTARIO  
Kemptville  
Tall Fescue Reg B  
Seeded 2012

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Code	Cultivar	2013 (kg/ha)		
		Cut 1	Cut 2	Tot13
5028	CARNIVAL	3845	3876	7721
5046	TOWER	3572	4151	7723
5523	COURTENAY	4656	4331	8987
5047	HYMARK	3487	4731	8218
5048	FOJTAN	2800	4521	7321
900	Mean	3672	4322	7994
901	CV	16.5	15.7	10.3
902	LSD	1099	1235	1499

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Heading Notes 2013

Code	Entry	Elora	Thunder Bay	New Liskeard
3079	OKAY	May 26	June 10	
3096	Dividend VL	May 29	June 14	
3113	Proper	May 29	June 18	
3118	AC Killarney	May 27	June 9	
3119	AC Kootenay	May 31	June 14	
3120	Echelon	May 29	June 15	
3086	Haymate	May 22		
6002	Climax	June 12	June 25	June 13
6026	Itasca	June 11	June 25	June 13
6030	Toro	June 2	June 22	
6050	Richmond	June 2	June 23	
6161	Treasure	June 3	June 22	June 14
6177	Summergraze	June 9	June 24	June 16
6136	Express	June 9		June 16
6086	Alexander	June 11		June 16
6138	Aurora	June 7		June 13
6172	Arlaka	June 9		June 12
6175	Bor 01025	June 12		
6176	AC Pratt			June 16
6174	Bor 88060	June 12		
6167	Bor 2005			June 14
6166	Barfleo			June 16
6168	Barpenta			June 18
6169	Kara			June 16
8542	Mara	June 6		
8547	Polium 4N	June 12		
8519	Remington	June 9		
8533	Kentaur	June 6		
5028	Carnival			June 9
5045	BARFAFL 118702			June 12
5047	Hymark			June 10
5044	BARFAFL 118701			June 11
5046	Tower			June 14
5523	Courtenay			June 15