

REPORT ON FORAGE CROPS TRIALS

ONTARIO FORAGE CROP COMMITTEE

Compiled by: Donna Hancock

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Ontario Forage Crop Committee**

Conducted co-operatively by:

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

This is the 2014 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Not For Publication: This is a progress report of co-operative investigations containing data, the interpretation of which may be modified with additional experimentation.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 Registration Trial
 Expt. 2920
 Seeded 2013

Code	Cultivar	2014 (kg/ha)			Tot14
		Cut 1	Cut 2	Cut 3	
1432	OAC_SUPERIOR	5076	3357	2907	11394
1652	55V48	4805	3398	2888	11236
1665	WL363HQ	5160	3535	3200	11944
1722	WL354HQ	4863	3545	3091	11454
1751	PROSEMENTI	4553	3507	3037	11126
1752	MINERVA	4848	3444	2997	11327
1766	55Q27	5169	3247	2861	11250
1768	CFL1204	4802	3708	3156	11637
1769	CFL1301	5480	3767	3130	12272
1770	CFL1302	5561	3561	3131	12243
1771	QS-28	4845	3665	3272	11778
1772	QS-29	5040	3162	2643	10868
1773	LELIA	4767	3479	3181	11460
1774	403LR	4796	3009	2539	10422
1775	GS-13-06M	5323	3744	3255	12203
1776	GS-13-08SC	4827	3562	2921	11201
900	Mean	4995	3481	3013	11488
901	CV	6.3	3.6	5.9	3.5
905	MCV	7.5	4.3	7.0	4.2
902	LSD	377.1	151.2	209.9	480.7
906	LSR	37.4	19.9	28.6	26.0
907	Pr>F(Trts)	0.0025	0.0000	0.0000	0.0000
908	R_square	60.1	84.6	75.0	78.3

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

Ontario
Thunder Bay
Alfalfa Reg- 2 cut
Seeded 2013

Code	Cultivar	2014 (kg/ha)		Total
		Cut 1	Cut 2	
1432	OAC_Superior	3608	2379	5987
1652	55V48	3393	2480	5873
1775	GS-13-06M	3801	2816	6617
1776	GS-13-08SC	2588	2609	6197
Mean		2598	2571	6169
CV(%)		11	14	9
PR>F		-	0.4081	0.3250
LSD(0.05)		NS	NS	NS

ONTARIO
 Kemptville
 Alfalfa Registration B
 seeded 2013

2014 (Kg/Ha)

Code	Cultivar	Cut 1	Cut 2	Cut 3	Total
1768	CFL1204	4505.1	3983.9	4172.3	12628.4
1769	CFL1301	4995.0	4883.0	3058.6	12652.3
1770	CFL1302	4264.1	4491.5	3782.4	12537.9
1773	Lelia	4916.8	4040.6	4229.5	13186.8
1432	OAC_Superior	5604.9	4445.8	3716.0	13200.5
1771	QS-28	4518.7	3946.2	4041.6	12506.4
1772	QS-29	5515.6	3798.0	3476.5	12790.0
1722	WL354HQ	5080.1	3525.2	3626.9	12232.1
1665	WL363HQ	5083.6	4501.6	3219.5	12804.7
1774	403LR	5435.2	4034.8	2944.8	12414.7
1652	55V48	4637.2	4103.6	3415.5	12156.2
	Mean	4959.6	4159.5	3607.6	12646.4
	CV	18.6	13.1	18.5	8.8
	LSD (P=0.05)	1344.2	784.0	961.7	1614.1

ONTARIO
 Kemptville
 Alfalfa Registration E
 seeded 2013

2014 (Kg/Ha)

Code	Cultivar	Cut 1	Cut 2	Cut 3	Total
1579	Ascend	3882.8	5651.8	3570.8	12781.2
1732	CFL1101	4699.8	4689.4	3648.3	13037.6
1743	CFL1203	4420.1	5356.6	3491.0	13267.7
1744	CFL1205	4920.5	4897.5	3677.5	13495.5
1745	CFL1206	4637.3	5105.5	3591.7	13334.4
1746	CFL1207	5190.4	4967.7	3560.0	13718.1
1736	DYNASTY	5447.9	5375.0	3788.6	14611.5
1737	LS603	5104.2	4870.7	3520.0	13063.1
1432	OAC_Superior	4052.1	4355.0	3410.0	11817.1
1729	Optimus	4899.6	4460.2	3604.2	12964.0
1723	PS11A01	4197.9	4673.8	3745.5	12617.2
1724	PS11A02	5427.1	4152.5	3520.0	13099.6
1635	QS-NR	5125.0	4366.3	3382.5	12873.8
1727	Shockwave-BR	5072.0	5398.8	3907.7	14757.9
1577	Starbuck	5427.1	5017.3	3787.8	14239.5
1726	Stockpile	4477.3	5072.5	3714.2	13264.0
1728	5010	5061.6	4694.4	3720.0	13476.0
1652	55V48	5614.6	4287.5	3730.8	13632.9
1720	55V50	4940.4	4834.9	3484.2	13259.4
1625	Valid	4468.8	4643.8	3547.5	12660.0
	Mean	4853.3	4843.6	3620.1	13298.5
	CV	18.3	16.2	11.5	11.1
	LSD (P=0.05)	1258.9	1106.8	590.2	2077.9

ONTARIO
 KEMPTVILLE
 Alfalfa Registration F
 seeded 2013

		2014 (Kg/Ha)			
Code	Cultivar	Cut 1	Cut 2	Cut 3	Total
1734	Akori	5170.8	5901.2	3134.1	14206.0
1699	CW054004	5131.2	6320.6	3698.3	15150.1
1697	CORNERSTONE	5131.4	6269.5	3425.9	14826.8
1738	CW065006	5070.4	5456.4	3437.4	13964.1
1432	OAC_Superior	5988.6	6911.2	3413.9	16313.7
1725	Rebound5.0	4264.8	5522.4	3241.2	13028.3
1577	Starbuck	5425.6	6436.1	3630.2	15491.9
1652	55V48	5620.0	5919.2	3021.8	14560.9
1648	Actis	4611.2	6326.7	2958.8	13896.7
	Mean	5157.1	6118.1	3329.1	14604.3
	CV	18.6	14.1	11.2	8.8
	LSD (P=0.05)	1397.3	1257.3	546.1	1870.7

ONTARIO
 New Liskeard
 Alfalfa Reg C
 Expt. 1301
 Seeded 2013

Code	Cultivar	2014 (kg/ha)		Tot14
		Cut 1	Cut 2	
1432	OAC_SUPERIOR	5956	3614	9519
1652	55V48	6170	3588	9782
1768	CFL1204	5939	3190	9094
1775	GS-13-06M	5723	3311	9091
1776	GS-13-08SC	6240	4037	10281
900	Mean	6006	3548	9553
901	CV	6.7	6.2	5.4
905	MCV	8.6	7.9	6.9
902	LSD	516.7	280.9	661.0
906	LSR	99.9	33.2	55.6
907	Pr>F(Trts)	0.5094	0.0093	0.1123
908	R_square	84.6	91.1	88.9

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

Ontario
 Thunder Bay
 Alfalfa Reg- 3 cut
 Seeded 2012

Code	Cultivar	2014 (kg/ha)			Total
		Cut 1	Cut 2	Cut 3	
1749	GS-11-03	2048	2299	1689	6037
1750	GS-11-08	2142	2032	1319	5493
1748	GS-11-8	1882	2103	1374	5358
1432	OAC Superior	2058	1959	1319	5336
1652	55V48	1893	2179	1340	5412
1747	GS-11-9	1856	2116	1230	5202
	Mean	1980	2115	1379	5473
	C.V. (%)	6	16	14	9
	PR>F	0.0143	-	0.0484	0.3241
	LSD(0.05)	174	NS	281	NS

Ontario
Thunder Bay
Alfalfa Reg- 2 cut
Seeded 2012

Code	Cultivar	2014 (kg/ha)		Total
		Cut 1	Cut 2	
1749	GS-11-03	2577	2457	5033
1750	GS-11-08	2588	2574	5163
1748	GS-11-8	2164	2184	4348
1432	OAC_Superior	2424	2541	4965
1652	55v48	2404	2519	4923
1747	GS-11-9	2464	2541	5006
Mean		2437	2469	4906
CV(%)		7	8	6
PR>F		0.1422	0.1223	0.0155
LSD(0.05)		296	NS	426

ONTARIO
 New Liskeard
 Alfalfa Reg G
 Expt. 1102
 Seeded 2011

Code	Cultivar	2014 (kg/ha)		Tot14	Tot13	Tot12	3yrTot
		Cut 1	Cut 2				
1432	OAC_SUPERIOR	6034	3001	9002	11763	10903	30964
1577	STARBUCK	6336	2911	9242	10814	9997	29812
1720	55V50	6236	2989	9169	10771	10687	30057
1721	55H94	6233	2869	9174	10024	10318	29383
1722	WL354HQ	5848	2902	8772	9933	10118	30470
900	Mean	6137	2934	9072	10661	10405	30137
901	CV	5.6	4.6	4.3	6.3	2.7	3.2
905	MCV	7.2	5.8	5.5	8.1	3.5	4.1
902	LSD	443.8	171.3	503.1	865.3	361.3	1231.1
906	LSR	91.0	129.9	106.9	47.3	39.9	77.9
907	Pr>F(Trts)	0.5244	0.6231	0.5731	0.0399	0.0179	0.3050
908	R_square	79.4	91.7	85.6	83.9	95.3	91.2

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

ONTARIO
 New Liskeard
 Alfalfa Registration C
 Expt. 1101
 Seeded 2011

Code	Cultivar	2014 (kg/ha)		Tot14	Tot13	Tot12	3yrTot
		Cut 1	Cut 2				
1432	OAC_SUPERIOR	5373	2745	8126	11287	9844	28975
1577	STARBUCK	5495	3106	8581	11019	9690	29257
1720	55V50	6315	3126	9466	11338	10992	31871
1721	55H94	5893	2929	8829	10063	9371	28494
1723	PS11A01	5569	3100	8696	10432	9267	28441
1724	PS11A02	6139	3218	9315	11298	9442	30097
1725	REBOUND_5.0	5419	3004	8450	10794	8964	27958
1726	STOCKPILE	5038	3218	8281	10563	11104	29990
1727	SHOCKWAVE_BR	5615	3284	8908	11407	11190	31144
1728	5010	5186	3210	8381	10220	8898	27685
1729	OPTIMUS	5236	3137	8335	10141	9610	28333
1735	QS-NR	5418	2664	8128	10610	9321	28110
1736	DYNASTY	6186	3183	9327	11895	11367	32682
1737	LS603	5451	2815	8251	11137	8998	28298
900	Mean	5595	3053	8648	10872	9861	29381
901	CV	8.2	6.0	5.5	7.7	6.9	5.0
905	MCV	9.9	7.2	6.7	9.2	8.2	6.0
902	LSD	552.7	219.8	575.5	1004.8	812.1	1767.4
906	LSR	43.3	35.5	43.0	54.8	32.9	35.4
907	Pr>F(Trts)	0.0062	0.0003	0.0010	0.1444	0.0000	0.0002
908	R_square	56.5	81.0	72.3	57.1	72.7	68.6

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

ONTARIO
 New Liskeard
 Alfalfa Reg B
 Expt. 1003
 Seeded 2010

Code	Cultivar	2014 (kg/ha)		Tot14	Tot13	Tot12	Tot11	4yrTot
		Cut 1	Cut 2					
1432	OAC_SUPERIOR	6335	2585	8918	11884	12016	11894	44534
1525	FORECAST_100	6181	2424	8618	11573	11215	11520	43161
1577	STARBUCK	6156	2439	8608	10876	11014	11393	42085
1667	54Q32	6379	2519	8885	11748	10999	11544	43078
1683	DS812-4	6626	2652	9284	11895	11759	12344	45334
1684	4010 BR	6796	2477	9263	11915	11657	12274	45194
1685	CFL1004	6096	2390	8464	10999	10844	11612	41875
1686	CFL1005	6178	2429	8563	10477	10206	10609	39815
1687	CFL1006	6600	2668	9301	11888	11749	12316	45177
1688	CFL1001	6896	2430	9317	11811	11269	11914	44627
1689	CFL1002	6616	2646	9269	12479	11750	12410	46054
1690	CFL1003	6882	2590	9488	12053	12191	12552	45835
1691	CFL1008	6385	2651	9045	11945	11170	11450	44107
1692	CFL1009	6208	2590	8795	10927	11024	11165	41854
1693	CFL1007	6362	2508	8837	12028	10671	11352	43054
1694	MSSUNTRA-A21	6342	2455	8801	11553	11945	11990	44194
1695	PROLIFIC II	6216	2369	8582	11289	11627	11878	42838
1696	4A415	6600	2587	9154	11663	11433	12040	44551
1697	CORNERSTONE	6288	2554	8869	11585	11290	11346	42846
1698	ADRENALIN	6535	2494	9002	11726	10568	10932	41928
1699	CW 054004	5829	2395	8250	11466	10607	11520	41843
1703	AC DALTON	6184	2135	8311	10841	10447	11215	40891
1704	LANCER	6212	2352	8576	10766	11058	11604	41946
1705	FSF 420LH	6030	2238	8298	11359	10583	11414	41905
1706	FSG 329	6024	2514	8578	11892	11168	11696	43365
1707	CW053014	6384	2606	8999	11717	10967	11727	43370
1708	CW01073013	6143	2487	8626	11509	10601	11449	42391
1709	IMLO4	5586	2130	7687	10827	11354	11529	41228
1710	SF2202	6515	2595	9093	12218	11110	11787	44273
1711	SF2101	5983	2225	8222	11218	11006	11533	41785
900	Mean	6319	2471	8790	11538	11177	11667	43171
901	CV	5.6	6.3	4.8	6.3	4.3	3.5	3.0
905	MCV	6.6	7.5	5.6	7.4	5.1	4.2	3.6
902	LSD	418.0	185.0	496.3	852.5	574.1	487.0	1550.7
906	LSR	31.9	34.4	27.6	42.6	28.9	25.1	24.9
907	Pr>F(Trts)	0.0001	0.0000	0.0000	0.0201	0.0000	0.0000	0.0000
908	R_square	75.0	85.3	82.3	67.4	87.3	89.6	89.1

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

ONTARIO
 New Liskeard
 Alfalfa Registration
 Expt. 9002
 Seeded 2009

Code	Cultivar	2014 (kg/ha)		Tot14	Tot13	Tot12	Tot11	Tot10	5yrTot
		Cut 1	Cut 2						
1432	OAC_SUPERIOR	4899	1595	6485	10269	9859	12301	9226	48259
1577	STARBUCK	4594	1605	6204	9945	10146	11959	9502	47612
1648	CF0913	5331	1773	7093	10386	10133	11915	9665	49182
1667	54Q32	5273	1790	7060	10559	9799	12041	8948	48118
1668	4S417	5412	1689	7105	10920	11223	12761	9805	51631
1669	WL353LH	4155	1315	5471	9246	9808	11778	8887	45415
1670	MAGNUM_VI_WET	5601	1789	7395	10530	10794	12885	9812	51290
1671	CW045025	5639	1950	7577	10839	9863	11994	8369	48888
1672	3010	4848	1449	6313	10013	10385	12539	9730	49078
1673	ADRENALIN	4988	1636	6625	10385	9982	12104	9096	48165
1674	LEGENDAIRY	5304	1665	6973	10370	10055	11633	9391	48579
1675	CW02013	4965	1558	6524	10205	9715	12177	9384	47941
900	Mean	5084	1651	6735	10306	10147	12174	9318	48680
901	CV	6.1	8.5	6.3	5.7	5.1	4.7	5.0	3.4
905	MCV	7.3	10.2	7.5	6.9	6.2	5.7	6.0	4.1
902	LSD	371.7	168.9	507.0	710.5	625.1	693.4	555.2	1998.1
906	LSR	25.0	26.6	24.1	42.5	41.5	55.4	38.5	32.1
907	Pr>F(Trts)	0.0000	0.0002	0.0000	0.0559	0.0093	0.1399	0.0050	0.0051
908	R_square	81.9	78.8	81.7	65.2	70.9	53.4	71.7	74.4

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

ONTARIO
 New Liskeard
 Alfalfa
 Expt. 7007
 Seeded 2007

Code	Cultivar	2014 (kg/ha)		Tot14	Tot13	Tot12	Tot11	Tot10	5yrTot
		Cut 1	Cut 2						
1432	OAC_SUPERIOR	6412	2403	8784	10564	8369	10400	8176	46056
1638	54V09	6324	2441	8792	10831	7570	9713	8030	44350
1652	55V48	6391	2492	8905	10327	7169	9822	7358	43416
1653	DS450	5779	2063	7826	10112	8011	9681	7917	43187
1654	4020MF	5930	2400	8316	10751	7681	9725	7898	44790
1655	L447HD	5765	2201	7913	10038	7305	9404	7627	41973
1656	13017	6481	2481	8927	10951	8219	9825	7795	46166
1657	15029	6150	2540	8728	10688	8044	9942	7762	45957
1660	QS0131	5951	2075	8020	9321	8058	9415	7753	43056
1661	SF2004	6369	2334	8762	10458	7767	10177	8472	44838
911	FILLER	6135	2329	8471	9783	7877	9792	7857	44092
900	Mean	6153	2342	8495	10348	7825	9809	7877	44353
901	CV	3.7	7.2	3.3	7.4	7.3	3.9	6.8	4.0
905	MCV	5.3	10.2	4.6	10.4	10.3	5.5	9.7	5.6
902	LSD	324.4	238.5	392.6	1078.7	804.2	544.0	762.2	2494.6
906	LSR	45.4	50.0	35.7	66.2	67.0	54.6	68.4	59.5
907	Pr>F(Trts)	0.0086	0.0497	0.0010	0.3297	0.3133	0.1868	0.6670	0.1448
908	R_square	85.5	84.6	88.3	44.1	70.3	88.3	61.4	76.9

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

ONTARIO
 Elora
 Red Clover Reg A
 Expt. 2913
 Seeded 2012

Code	Cultivar	2014 (kg/ha)			Tot14	Tot13	2yrTot
		Cut 1	Cut 2	Cut 3			
4073	BELLE	4454	2757	2560	10005	9082	19264
4079	AC_ENDURE	4348	2854	2930	9890	9361	18991
4080	TEMPUS	4306	3158	2719	9968	10843	20582
4088	GS-11-02	4266	2749	2582	9819	9288	19420
900	Mean	4344	2879	2697	9921	9644	19564
901	CV	9.2	3.2	4.0	3.7	7.0	4.7
905	MCV	12.3	4.3	5.4	4.9	9.4	6.3
902	LSD	533.3	124.0	144.6	491.0	911.0	1239.6
906	LSR	283.8	30.4	39.1	264.4	51.7	77.9
907	Pr>F(Trts)	0.9162	0.0103	0.0693	0.8912	0.0603	0.1735
908	R_square	82.9	85.1	95.0	74.2	66.5	58.1

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

Ontario
 Thunder Bay
 Red Clover Registration
 Seeded 2013 (2012 test)

Code	Cultivar	Cut 1	2014 (kg/ha)		Tot14
			Cut 2		
4073	BELLE	2368	1753		4121
4079	AC_ENDURE	2381	1576		3957
4080	TEMPUS	2268	1376		3662
4088	GS-11-02	2432	1583		4014
900	Mean	2367	1572		3939
901	CV	5	14		5
902	LSD	NS	NS		NS
907	Pr>F(Trts)	-	0.1930		0.0563

ONTARIO
 Elora
 Late Timothy Trial
 Expt. 2922
 Seeded 2013

Code	Cultivar	2014 (kg/ha)		
		Cut 1	Cut 2	Tot14
6002	CLIMAX	5983	3359	9342
6026	ITASCA	6614	5245	11858
6066	NORMAX	5593	5859	11452
6086	ALEXANDER	5989	5130	11120
6136	EXPRESS	6000	5677	11677
6138	AURORA	6108	4712	10821
6161	TREASURE	6870	5316	12186
6170	CREST	6606	6214	12819
6178	PROJECT	5840	5699	11539
6179	ALTERNATE	6335	5154	11489
900	Mean	6194	5237	11430
901	CV	5.4	11.8	6.8
905	MCV	6.5	14.3	8.2
902	LSD	399.8	747.2	937.2
906	LSR	31.3	26.2	27.0
907	Pr>F(Trts)	0.0002	0.0001	0.0003
908	R_square	68.3	70.7	67.9

RCBD arrangement, 4 blocks {1234}

ONTARIO
 New Liskeard
 Late Timothy Reg A
 Expt. 1303
 Seeded 2013

Code	Cultivar	2014 (kg/ha)		
		Cut 1	Cut 2	Tot14
6002	CLIMAX	8563	2048	10610
6026	ITASCA	10999	2090	13090
6086	ALEXANDER	8151	2355	10506
6136	EXPRESS	9414	2052	11465
6138	AURORA	9544	1910	11454
6161	TREASURE	8086	2456	10542
6170	CREST	8816	2393	11210
6178	PROJECT	8519	2204	10723
900	Mean	9011	2189	11200
901	CV	7.6	10.2	6.5
905	MCV	10.9	14.7	9.3
902	LSD	984.4	322.2	1042.6
906	LSR	33.8	59.1	40.4
907	Pr>F(Trts)	0.0025	0.0895	0.0106
908	R_square	75.0	61.5	69.3

RCBD arrangement, 3 blocks {234}

ONTARIO
 Elora
 Late Timothy Reg A
 Expt. 2915
 Seeded 2012

Code	Cultivar	2014 (kg/ha)		Tot14	Tot13	2yrTot
		Cut 1	Cut 2			
6002	CLIMAX	6369	2763	9132	8743	17874
6026	ITASCA	6947	3175	10121	9459	19580
6066	NORMAX	6543	3617	10159	9017	19176
6086	ALEXANDER	7218	3817	11035	9326	20361
6136	EXPRESS	6825	3379	10204	10530	20734
6138	AURORA	6490	2873	9363	8521	17884
6161	TREASURE	7065	2953	10018	10611	20629
6177	SUMMERGRAZE	6568	3236	9805	8986	18790
900	Mean	6753	3227	9980	9399	19379
901	CV	4.5	9.9	5.1	6.2	4.7
905	MCV	5.4	12.1	6.2	7.6	5.7
902	LSD	367.3	390.3	620.8	709.9	1104.7
906	LSR	43.3	37.0	32.6	34.0	38.6
907	Pr>F(Trts)	0.0057	0.0015	0.0016	0.0002	0.0004
908	R_square	82.6	78.3	84.4	76.8	81.1

RCBD arrangement, 4 blocks {1234}

ONTARIO
 Elora
 Late Timothy Reg A
 Expt. 2903
 Seeded 2011

Code	Cultivar	2014 (kg/ha)		Tot14	Tot13	Tot12	3yrTot
		Cut 1	Cut 2				
6002	CLIMAX	6590	2005	8595	5709	5144	19448
6026	ITASCA	6443	2227	8670	7124	5290	21084
6066	NORMAX	6317	2727	9044	6554	4873	20471
6081	MARIPOSA	6770	2448	9217	7174	5078	21469
6086	ALEXANDER	6447	2426	8872	6051	5506	20429
6136	EXPRESS	6682	2452	9134	7152	5540	21826
6138	AURORA	6953	2284	9237	6768	5141	21146
6161	TREASURE	6860	2493	9353	7282	5977	22612
6176	AC_PRATT	6805	2381	9186	7216	4854	21256
900	Mean	6652	2382	9034	6781	5267	21082
901	CV	8.5	12.5	7.2	9.2	6.8	4.3
905	MCV	10.3	15.1	8.7	11.1	8.3	5.2
902	LSD	683.0	360.2	787.2	752.7	435.5	1103.5
906	LSR	107.3	49.9	103.9	47.9	38.8	34.9
907	Pr>F(Trts)	0.7796	0.1274	0.7198	0.0105	0.0041	0.0043
908	R_square	60.0	64.1	70.4	61.6	78.3	83.8

RCBD arrangement, 4 blocks {1234}

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

Code	Cultivar	2014 (kg/ha)		Tot13	Tot12	3yrTot
		Cut 1	Tot14			
6002	CLIMAX	5693	5693	8769	6881	21342
6026	ITASCA	6047	6047	9482	7617	23147
6066	NORMAX	5936	5936	10268	8105	24308
6081	MARIPOSA	6226	6226	10002	7516	23744
6086	ALEXANDER	5551	5551	9316	6994	21861
6136	EXPRESS	6026	6026	9558	7874	23458
6138	AURORA	5589	5589	9085	7193	21867
6161	TREASURE	5768	5768	10481	7866	24115
6176	AC PRATT	5512	5512	9238	6990	21739
900	Mean	5816	5816	9578	7448	22842
901	CV	5.5	5.5	6.2	5.1	3.9
905	MCV	6.6	6.6	7.5	6.1	4.8
902	LSD	386.0	386.0	714.5	456.9	1085.8
906	LSR	54.1	54.1	41.7	37.3	36.6
907	Pr>F(Trts)	0.0386	0.0386	0.0063	0.0004	0.0002
908	R_square	73.2	73.2	86.4	69.4	82.5

RCBD arrangement, 4 blocks {1234}

ONTARIO
 Elora
 Late Timothy Reg A
 Expt. 2887
 Seeded 2010

Code	Cultivar	Cut 1	2014 (kg/ha)		Tot13	Tot12	Tot11	4yrTot
			Cut 2	Tot14				
6002	CLIMAX	6586	1802	8388	4302	4141	7602	24433
6026	ITASCA	7009	3080	10089	5436	5083	9202	29810
6066	NORMAX	6701	3315	10016	5214	4928	8815	28972
6081	MARIPOSA	6966	3463	10430	5572	4994	9449	30444
6086	ALEXANDER	7052	2655	9707	5033	4545	8579	27864
6136	EXPRESS	7382	3057	10440	5202	5224	10776	31642
6138	AURORA	7260	3236	10495	5297	4344	8976	29112
6161	TREASURE	7146	3077	10223	5693	4721	8667	29304
6173	TIFFANY	6452	3440	9892	4753	4381	8939	27966
6174	BOR_88060	7059	2843	9902	5444	5502	8724	29572
6175	BOR_01025	6280	2378	8658	4715	4588	8401	26362
900	Mean	6899	2940	9840	5151	4768	8921	28680
901	CV	7.4	7.8	5.9	8.2	7.5	6.1	3.8
905	MCV	8.9	9.4	7.1	9.9	9.0	7.3	4.6
902	LSD	611.9	275.9	695.4	509.0	429.7	652.4	1323.5
906	LSR	55.5	16.6	33.0	36.6	31.6	20.6	18.4
907	Pr>F(Trts)	0.0915	0.0000	0.0001	0.0019	0.0002	0.0000	0.0000
908	R_square	47.1	88.4	72.7	81.9	81.6	82.4	89.5

RCBD arrangement, 4 blocks {1234}

ONTARIO
 New Liskeard
 Late Timothy
 Expt. 9003
 Seeded 2009

Code	Cultivar	2014 (kg/ha)		Tot13	Tot12	Tot11	Tot10	5yrTot
		Cut 1	Tot14					
6002	CLIMAX	4511	4511	5847	5896	9816	9426	35496
6026	ITASCA	4075	4075	6414	6870	11357	9931	38647
6066	NORMAX	4846	4846	7331	7346	11647	10512	41683
6086	ALEXANDER	4322	4322	6758	6935	11054	9945	39015
6136	EXPRESS	4600	4600	7467	7698	10725	10215	40706
6138	AURORA	4491	4491	7013	6775	10686	10323	39288
6161	TREASURE	4340	4340	7783	7756	11228	10527	41634
6172	ARLAKA	4658	4658	6327	6742	10211	9698	37635
900	Mean	4480	4480	6867	7002	10840	10072	39263
901	CV	7.9	7.9	6.1	6.3	6.3	7.3	3.2
905	MCV	9.6	9.6	7.5	7.7	7.7	8.9	3.9
902	LSD	431.0	431.0	512.4	539.1	833.1	899.3	1542.5
906	LSR	55.9	55.9	26.5	29.0	45.5	81.7	24.9
907	Pr>F(Trts)	0.1451	0.1451	0.0000	0.0002	0.0190	0.3834	0.0000
908	R_square	66.5	66.5	79.6	74.9	56.1	37.2	79.3

RCBD arrangement, 4 blocks {1234}

ONTARIO
 New Liskeard
 Late Timothy
 Expt. 7001
 Seeded 2007

Code	Cultivar	2014 (kg/ha)		Tot13	Tot12	Tot11	Tot10	5yrTot
		Cut 1	Tot14					
6002	CLIMAX	4965	4965	6841	5465	6558	5831	29660
6026	ITASCA	5015	5015	7893	5704	7758	5558	31928
6166	BARFLEO	3918	3918	6132	3890	6610	5770	26319
6167	BOR_2005	4964	4964	7571	5605	7385	5664	31189
6168	BARPENTA	4010	4010	6733	4060	6057	5988	26847
6169	KARA	4609	4609	7516	5449	7845	5721	31138
900	Mean	4580	4580	7114	5029	7036	5755	29514
901	CV	9.0	9.0	8.8	9.6	8.8	9.9	4.9
905	MCV	11.2	11.2	11.0	11.8	10.9	12.2	6.1
902	LSD	511.5	511.5	779.5	595.3	765.0	704.8	1801.2
906	LSR	46.6	46.6	44.3	32.8	42.8	164.0	32.1
907	Pr>F(Trts)	0.0035	0.0035	0.0119	0.0001	0.0043	0.9225	0.0002
908	R_square	88.4	88.4	80.4	84.5	70.3	20.3	88.5

RCBD arrangement, 4 blocks {1234}

ONTARIO
 Elora
 Early Timothy Trial
 Expt. 2921
 Seeded 2013

Code	Cultivar	2014 (kg/ha)		
		Cut 1	Cut 2	Tot14
6030	TORO	4803	5313	10116
6050	RICHMOND	4973	5481	10454
6162	DERBY	4951	5511	10462
6179	ALTERNATE	4991	5497	10488
900	Mean	4930	5450	10380
901	CV	6.3	6.9	5.1
905	MCV	8.2	8.9	6.6
902	LSD	402.5	484.0	680.2
906	LSR	214.9	244.2	183.0
907	Pr>F(Trts)	0.8225	0.8617	0.7244
908	R_square	84.7	57.4	69.1

RCBD arrangement, 4 blocks {1234}

ONTARIO
 Elora
 Bromegrass Reg A
 Expt. 2906
 Seeded 2011

Code	Cultivar	2014 (kg/ha)			Tot14	Tot13	Tot12	3yrTot
		Cut 1	Cut 2	Cut 3				
2039	BRAVO	4337	1155	1454	6946	6903	4887	18736
2051	RADISSON	4159	1332	1524	7015	6575	4224	17813
2057	FLEET	5169	1177	1562	7909	8252	5133	21294
2060	PEAK	4524	1265	1704	7493	7007	4876	19375
2068	ARMADA	5301	1438	2138	8877	10060	6287	25225
2069	ADMIRAL	4627	1443	1878	7949	9527	5660	23136
900	Mean	4352	1209	1588	7148	7480	4809	19437
901	CV	11.3	16.8	10.7	8.6	8.6	7.9	7.3
905	MCV	13.8	20.6	13.1	10.6	10.6	9.7	8.9
902	LSD	601.8	249.4	207.6	756.3	792.8	466.9	1729.4
906	LSR	20.3	31.5	16.2	15.0	13.2	12.7	11.7
907	Pr>F(Trts)	0.0000	0.0006	0.0000	0.0000	0.0000	0.0000	0.0000
908	R_square	86.5	72.2	89.3	90.8	93.8	92.9	94.2

RCBD arrangement, 4 blocks {1234}

ONTARIO
 New Liskeard
 Bromegrass Reg A
 Expt. 1103
 Seeded 2011

Code	Cultivar	2014 (kg/ha)		Tot14	Tot13	Tot12	3yrTot
		Cut 1	Cut 2				
2039	BRAVO	5314	1311	6625	8240	10403	25268
2051	RADISSON	5321	1056	6377	8137	10546	25060
2054	PADDOCK	2655	744	3399	4435	11412	19246
2057	FLEET	5615	1533	7148	9243	10778	27169
2060	PEAK	5499	1553	7052	9149	10544	26745
2068	ARMADA	5191	1721	6911	9414	11218	27542
2069	ADMIRAL	4924	1753	6677	9035	10568	26280
900	Mean	4931	1381	6313	8236	10781	25330
901	CV	10.3	9.0	9.2	8.5	9.1	5.6
905	MCV	12.7	11.0	11.3	10.4	11.1	6.9
902	LSD	624.3	152.1	715.2	854.8	1199.4	1747.3
906	LSR	21.1	15.1	19.1	17.2	118.8	21.1
907	Pr>F(Trts)	0.0000	0.0000	0.0000	0.0000	0.7140	0.0000
908	R_square	86.3	92.9	87.7	90.4	27.5	85.0

RCBD arrangement, 4 blocks {1234}

ONTARIO
Thunder Bay
Late Orchardgrass Trial

Seeded 2012

Code	Cultivar	2014 (kg/ha)		Tot14
		Cut 1	Cut 2	
3096	DIVIDEND_VL	3801	3078	6879
3120	ECHELON	2676	3350	6026
3079	OKAY	3721	3029	6750
3113	PROPER	3169	2901	6070
900	Mean	3342	3089	6431
901	CV	25	16	12
902	LSD	NS	NS	NS
907	Pr>F(Trts)	0.2708	-	0.3498

RCBD arrangement, 4 blocks {1234}

ONTARIO
 Elora
 Late Orchardgrass Reg A
 Expt. 2904
 Seeded 2011

Code	Cultivar	Cut 1	2014 (kg/ha)			Tot14	Tot13	Tot12	3yrTot
			Cut 2	Cut 3					
3079	OKAY	5408	1919	2054	9382	7341	4644	21367	
3086	HAYMATE	4608	2187	2270	9065	7851	4486	21402	
3096	DIVIDEND_VL	4934	1869	2112	8914	6183	3718	18815	
3118	AC_KILLARNEY	4890	1762	1962	8614	6552	3953	19118	
3119	AC_KOOTENAY	4702	1823	1815	8341	5327	3132	16799	
900	Mean	4908	1912	2043	8863	6651	3987	19500	
901	CV	11.0	7.2	9.1	8.3	7.5	6.8	6.4	
905	MCV	13.9	9.0	11.4	10.5	9.5	8.6	8.1	
902	LSD	683.2	173.0	233.3	929.9	630.1	342.5	1582.9	
906	LSR	85.4	40.6	51.3	89.3	25.0	22.6	34.4	
907	Pr>F(Trts)	0.3228	0.0082	0.0465	0.3651	0.0001	0.0000	0.0012	
908	R_square	60.2	70.0	55.7	47.4	88.0	89.9	81.3	

RCBD arrangement, 4 blocks {1234}

ONTARIO
 Elora
 Orchard grass Yield
 Expt. 2890
 Seeded 2010

Code	Cultivar	2014 (kg/ha)			Tot14	Tot13	Tot12	Tot11	4yrTot
		Cut 1	Cut 2	Cut 3					
3066	RAPIDO	5881	2019	2386	10287	5887	3646	7116	26937
3079	OKAY	5281	1969	2352	9602	5207	2865	7200	24874
3086	HAYMATE	5665	2141	2509	10315	5709	3109	7298	26431
3094	ORCA	5384	2090	2559	10033	6447	3990	7350	27821
3096	DIVIDEND_VL5496	5496	1928	2405	9829	5165	2878	7078	24949
3110	OG01	6238	1701	2306	10245	4804	2953	7034	25036
3114	OG06	5717	2139	2280	10136	4747	2684	7539	25106
900	Mean	5632	1985	2355	9972	5428	2766	6327	24493
901	CV	8.4	6.7	10.3	6.7	7.4	17.4	7.7	4.9
905	MCV	10.3	8.2	12.6	8.2	9.0	21.2	9.3	6.0
902	LSD	579.1	162.4	296.3	813.2	491.0	586.2	590.7	1462.8
906	LSR	60.5	36.9	57.9	82.6	28.9	14.7	7.8	11.2
907	Pr>F(Trts	0.1484	0.0021	0.1744	0.3763	0.0001	0.0000	0.0000	0.0000
908	R_square	62.9	69.1	45.0	49.0	88.4	90.0	97.5	94.6

RCBD arrangement, 4 blocks {1234}

ONTARIO
 Elora
 Tall Fescue Trial
 Expt. 2923
 Seeded 2013

Code	Cultivar	2014 (kg/ha)			Tot14
		Cut 1	Cut 2	Cut 3	
5028	CARNIVAL	4946	2105	2412	9464
5041	KORA	4775	2279	2495	9549
5051	IS-FTF_70	4754	2080	2143	8977
5052	IS-FTF_73	4479	2219	2259	8957
5523	COURTENAY	4348	2495	2313	9156
900	Mean	4660	2236	2324	9220
901	CV	5.1	13.0	5.7	4.0
905	MCV	6.4	16.4	7.1	5.1
902	LSD	298.9	366.4	166.1	468.8
906	LSR	49.9	88.3	47.1	79.1
907	Pr>F(Trts)	0.0242	0.3222	0.0223	0.1340
908	R_square	92.4	39.8	86.3	82.8

RCBD arrangement, 4 blocks {1234}

ONTARIO
 New Liskeard
 Tall Fescue Reg A
 Expt. 1302
 Seeded 2013

Code	Cultivar	2014 (kg/ha)		
		Cut 1	Cut 2	Tot14
5028	CARNIVAL	8289	2612	10901
5041	COURTENAY	8134	2720	10854
5051	IS_FTF_70	7732	2623	10355
5052	IS_FTF_73	8147	2635	10782
5523	COURTENAY	8938	2463	11401
900	Mean	8248	2611	10859
901	CV	6.5	7.2	5.8
905	MCV	8.2	9.1	7.3
902	LSD	674.0	237.1	797.8
906	LSR	55.9	92.1	76.3
907	Pr>F(Trts)	0.0827	0.4570	0.2966
908	R_square	56.3	69.2	56.9

RCBD arrangement, 4 blocks {1234}

ONTARIO
 Kemptville
 Tall Fescue Registration B
 seeded 2013

2014 (Kg/Ha)

Code	Cultivar	Cut 1	Cut 2	Cut 3	Total
5523	Courtenay	7516.0	3625.9	1298.2	12440.1
5048	Fojtan	6729.6	2437.2	915.4	10082.2
5947	Hymark	7708.5	2556.2	960.5	11225.2
5046	Tower	7177.2	2999.6	1101.6	11278.5
5028	Carnival	8366.9	3050.7	1212.6	12630.2
5044	BARFAFL118701	8593.4	2699.8	864.5	12157.8
5045	BARFAFL118702	8282.7	2971.2	1041.6	12295.5
	Mean	7767.8	2905.8	1056.4	11729.9
	CV	15.8	14.4	16.6	11.3
LSD	(P=0.05)	1827.7	623.0	260.0	1970.5

ONTARIO
 Elora
 Tall Fescue Reg A
 Expt. 2914
 Seeded 2012

Code	Cultivar	2014 (kg/ha)			Tot14	Tot13	2yrTot
		Cut 1	Cut 2	Cut 3			
5028	CARNIVAL	4446	2356	2452	9254	8801	18055
5044	BAR_FAF1_118	4138	2117	1964	8219	8224	16444
5045	BAR_FAF1_118	4174	2132	2073	8380	8219	16598
5046	TOWER	4373	2313	2365	9051	9425	18476
5047	HYMARK	4316	2118	1946	8380	8339	16719
5523	COURTENAY	4311	2418	2235	8963	8995	17958
900	Mean	4293	2242	2173	8708	8667	17375
901	CV	8.4	7.4	8.3	6.9	3.6	4.3
905	MCV	12.4	10.9	12.2	10.3	5.3	6.4
902	LSD	534.4	245.4	265.4	895.0	463.6	1107.9
906	LSR	173.5	81.7	52.4	86.5	38.4	54.5
907	Pr>F(Trts)	0.8917	0.1633	0.0264	0.2637	0.0042	0.0261
908	R_square	64.1	87.1	86.2	82.8	85.1	87.5

RCBD arrangement, 3 blocks {123}

ONTARIO
Thunder Bay
Tall Fescue Trial

Seeded 2012

Code	Cultivar	2014 (kg/ha)		Tot14
		Cut 1	Cut 2	
5028	CARNIVAL	3654	3250	6904
5046	TOWER	3282	2847	6128
5523	COURTENAY	4391	2944	7335
900	Mean	3776	3014	6789
901	CV	7	23	10
902	LSD	439	NS	NS
907	Pr>F(Trts)	0.0023	-	0.0964

RCBD arrangement, 4 blocks {1234}

ONTARIO
 New Liskeard
 Tall Fescue
 Expt. 7003
 Seeded 2007

Code	Cultivar	2014 (kg/ha)		Tot14	Tot13	Tot12	Tot11	Tot10	5yrTot
		Cut 1	Cut 2						
5028	CARNIVAL	3994	1498	5492	7004	6578	5506	7788	32367
5037	BARELITE	4273	1799	6071	5570	4718	4154	5941	26454
5523	COURTENAY	4029	1777	5806	6948	5878	6581	7517	32730
5526	KOKANEE	4044	1404	5448	7119	6409	6348	7473	32797
900	Mean	4085	1619	5704	6660	5896	5647	7180	31087
901	CV	7.6	16.8	4.9	5.4	8.4	8.2	2.7	3.3
905	MCV	9.9	21.8	6.4	6.9	10.9	10.6	3.5	4.2
902	LSD	403.2	353.5	365.1	461.9	641.9	600.5	249.7	1311.9
906	LSR	144.7	89.6	58.6	29.8	34.5	24.7	13.5	20.7
907	Pr>F(Trts)	0.5965	0.1676	0.0385	0.0006	0.0022	0.0002	0.0000	0.0000
908	R_square	78.1	70.7	91.9	90.3	80.1	90.5	96.4	93.2

RCBD arrangement, 4 blocks {1234}

ONTARIO
 Elora
 Perennial Ryegrass Reg A
 Expt. 2905
 Seeded 2011

Code	Cultivar	2014 (kg/ha)			Tot14	Tot13	Tot12	3yrTot
		Cut 1	Cut 2	Cut 3				
8516	BARSPRINTER	2795	1474	862	5131	5031	4240	14403
8519	REMINGTON	2147	1904	1045	5096	6903	4621	16621
8537	DYNAMIC	1738	1945	1170	4853	4840	2130	11823
8538	INTRADA	2520	1540	1113	5174	6352	3805	15331
8539	TORONTO	1480	1566	1080	4126	5355	4156	13637
8540	CHICAGO	2139	1692	1161	4992	5292	3524	13808
8542	MARA	1797	1841	1088	4726	5521	4178	14425
8543	RESPECT	1978	1758	1038	4774	5815	4178	14767
900	Mean	2074	1715	1070	4859	5639	3854	14352
901	CV	19.8	17.4	9.5	9.2	9.2	8.9	5.9
905	MCV	28.5	25.1	13.6	13.2	13.2	12.8	8.5
902	LSD	590.5	429.8	145.5	640.6	745.8	491.4	1213.0
906	LSR	44.9	91.2	47.2	61.2	36.1	19.7	25.3
907	Pr>F(Trts)	0.0288	0.4450	0.0511	0.1770	0.0039	0.0000	0.0006
908	R_square	70.4	53.4	73.0	50.7	77.7	88.9	83.4

RCBD arrangement, 3 blocks {234}

ONTARIO
 Elora
 Perennial Ryegrass Reg A
 Expt. 2888
 Seeded 2010

Code	Cultivar	Cut 1	2014 (kg/ha)			Tot14	Tot13	Tot12	Tot11	4yrTot
			Cut 2	Cut 3						
8536	BARMULTRA_II	2216	1823	1131	5170	5240	2985	16077	29472	
8537	DYNAMIC	2123	1937	1204	5264	3175	2984	8306	19729	
8538	INTRADA	3523	1337	1187	6047	4923	4468	9968	25405	
8539	TORONTO	2574	1478	1213	5264	5325	4338	10676	25603	
8540	CHICAGO	2942	1667	1162	5771	4175	3715	9940	23600	
900	Mean	2675	1648	1179	5503	4568	3698	10993	24762	
901	CV	17.7	13.0	17.4	10.0	11.5	10.2	5.4	5.2	
905	MCV	22.3	16.4	21.9	12.7	14.5	12.8	6.8	6.6	
902	LSD	597.7	269.9	258.8	696.8	661.2	475.2	751.9	1630.0	
906	LSR	42.7	45.0	317.4	79.5	30.8	32.0	9.7	16.7	
907	Pr>F(Trts)	0.0077	0.0114	0.9757	0.1684	0.0005	0.0002	0.0000	0.0000	
908	R_square	69.2	64.0	27.2	46.1	84.1	84.1	97.2	91.2	

RCBD arrangement, 4 blocks {1234}

Heading Notes 2014

Code	Entry	Elora	Thunder Bay
3079	OKAY	May 31	June 12
3096	Dividend VL	June 4	June 16
3113	Proper	June 2	June 23
3118	AC Killarney	June 2	June 11
3119	AC Kootenay	June 8	June 14
3120	Echelon	June 3	June 23
3086	Haymate	May 31	
6002	Climax	June 12	June 26
6026	Itasca	June 12	June 25
6030	Toro	June 7	June 23
6050	Richmond	June 6	June 22
6161	Treasure	June 4	June 23
6177	Summergraze	June 12	June 24
6136	Express	June 12	
6086	Alexander	June 12	
6138	Aurora	June 11	
6172	Arlaka	June 13	
6175	Bor 01025	June 13	
6176	AC Pratt		
6174	Bor 88060	June 13	
6167	Bor 2005		
6166	Barfleo		
6168	Barpenta		
6169	Kara		
5028	Carnival		
5045	BARFAFL 118702		
5047	Hymark		
5044	BARFAFL 118701		
5046	Tower		
5523	Courtenay		

% Stand Notes

ONTARIO

Elora

Alfalfa Registration Trial (3 cut)

Expt. 2909

Seeded 2012

	2014	
Code	Cultivar	% Stand
1432	OAC SUPERIOR	53
1577	STARBUCK	33
1625	VALID	35
1648	ACTIS	38
1652	55V48	48
1743	CFL1203	35
1744	CFL1205	43
1745	CFL1206	55
1746	CFL1207	45
1747	GS-11-9	50
1748	GS-11-8	50
1749	GS-11-03	40
1750	GS-11-08	35
1751	PROSEMENTI	38
1752	MINERVA	25
	MEAN	41.3
	SE	6.4
	CV (%)	30.9

% Stand Notes

ONTARIO

Elora

Perennial Ryegrass Registration Trial

Expt. 2909

Seeded 2012 Spring

Code	Cultivar	2014 % Stand
8516	BARSPRINTER	84
8519	REMINGTON	73
8533	KENTAUR	53
8535	BARUTTI	55
8538	INTRADA	60
8539	TORONTO	43
8540	CHICAGO	45
8542	MARA	73
8543	RESPECT	45
8545	ORANTAS_2N	58
8546	MATHILDE_4N	70
8547	PHOLIM_4N	58
8548	LOFA	73
8549	PERSEUS	80
	MEAN	61.6
	SE	6.2
	CV (%)	20.0