



New Liskeard Agricultural Research Station Forage Trials 2014

Summary of Results

Alfalfa

Bromegrass

Late Timothy

Tall Fescue

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Alfalfa Registration B (2010) 2014
 New Liskeard Agricultural Research Station
 (1003)

□ 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	DS711-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	CW 064004	6288	2554	8869	11585	11290	11346	42846
1698	CW 23017	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	CW 01073013	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.

Alfalfa Registration C (2011) 2014
 New Liskeard Agricultural Research Station
 (1101)

ONTARIO
 New Liskeard
 Alfalfa Registration C
 Expt. 1101
 Seeded 2011

Code	Cultivar	2014 (kg/ha)					
		Cut 1	Cut 2	Tot14	Tot13	Tot12	3yrTot
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	DSA01-T	5038	3218	8281	10563	11104	29990
1727	DSA05-BR	5615	3284	8908	11407	11190	31144
1728	CW055005	5186	3210	8381	10220	8898	27685
1729	CW044019	5236	3137	8335	10141	9610	28333
1735	QS-NR	5418	2664	8128	10610	9321	28110
1736	DSB-18-T	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.

Alfalfa Registration G (2011) 2014
 New Liskeard Agricultural Research Station
 (1102)

ONTARIO
 New Liskeard
 Alfalfa Reg G
 Expt. 1102
 Seeded 2011

Code	Cultivar	2014 (kg/ha)					
		Cut 1	Cut 2	Tot14	Tot13	Tot12	3yrTot
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.

New Liskeard Bromegrass Reg A (2011) 2014
 New Liskeard Agricultural Research Station
 (1103)

ONTARIO
 New Liskeard
 Bromegrass Reg A
 Expt. 1103
 Seeded 2011

Code	Cultivar	2014 (kg/ha)					
		Cut 1	Cut 2	Tot14	Tot13	Tot12	3yrTot
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}

*note PADDOCK had no plants. Data calculated from Estimated values

New Late Timothy Reg A (2011) 2014
New Liskeard Agricultural Research Station
(1105)

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

Code	Cultivar	2014 (kg/ha)				
		Cut 1	Tot14	Tot13	Tot12	3yrTot
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	NS04-T01	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}

□

New Liskeard Tall Fescue Reg A (2012) 2014
 New Liskeard Agricultural Research Station
 (1203)

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

Code	Cultivar	2014 (kg/ha)				
		Cut 1	Cut 2	Tot14	Tot13	2yrTot
5028	CARNIVAL	6649	2983	9632	13253	22885
5044	BAR FAFL 118701	6628	2640	9268	12279	21548
5045	BAR FAFL 118702	5923	2695	8618	12258	20877
5046	TOWER	5904	3010	8914	12262	21176
5047	HYMARK	6067	2707	8774	13330	22104
5523	COURTENAY	6428	2669	9097	13022	22119
900	Mean	6267	2784	9051	12734	21785
901	CV	6.1	7.6	5.5	6.5	3.5
905	MCV	7.5	9.5	6.8	8.1	4.4
902	LSD	470.9	263.7	619.0	1028.0	954.1
906	LSR	63.1	71.2	61.1	96.0	47.5
907	Pr>F(Trts)	0.0334	0.0819	0.1150	0.2237	0.0242
908	R_square	75.4	51.4	62.5	72.8	85.5

RCBD arrangement, 4 blocks {1234}

New Liskeard Late Timothy Reg A (2012) 2014
 New Liskeard Agricultural Research Station
 (1204)

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

2014 (kg/ha)						
Code	Cultivar	Cut 1	Cut 2	Tot14	Tot13	2yrTot
6002	CLIMAX	6704	1623	8328	12843	21171
6026	ITASCA	6976	1826	8802	14036	22838
6066	NORMAX	6543	1967	8510	13582	22092
6086	ALEXANDER	6257	1746	8002	12928	20931
6136	EXPRESS	6628	1846	8474	13501	21976
6138	AURORA	6459	1646	8105	13435	21540
6161	NS04-T01	6714	2253	8967	14452	23419
6177	SUMMERGRAZE	6569	1852	8421	12905	21326
900	Mean	6606	1845	8451	13460	21911
901	CV	6.3	7.1	5.8	6.8	5.6
905	MCV	7.6	8.6	7.0	8.2	6.8
902	LSD	502.9	159.0	593.4	1106.9	1481.6
906	LSR	70.0	25.3	61.5	68.8	59.5
907	Pr>F(Trts)	0.4415	0.0000	0.1498	0.1921	0.1050
908	R_square	52.0	79.9	52.2	76.2	73.3

RCBD arrangement, 4 blocks {1234}

Alfalfa Registration C (2013) 2014
 New Liskeard Agricultural Research Station
 (1301)

ONTARIO
 New Liskeard
 Alfalfa Reg C
 Expt. 1301
 Seeded 2013

Code	Cultivar	2014 (kg/ha)		
		Cut 1	Cut 2	Tot14
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

New Liskeard Tall Fescue Reg A (2013) 2014
 New Liskeard Agricultural Research Station
 (1302)

□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}

New Liskeard Late Timothy Reg A (2013) 2014
 New Liskeard Agricultural Research Station
 (1303)

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

		2014 (kg/ha)		
Code	Cultivar	Cut 1	Cut 2	Tot14
<hr/>				
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	NS04-T01	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}

New Liskeard Late Timothy (2007) 2014
 New Liskeard Agricultural Research Station
 (7001)

ONTARIO
 New Liskeard
 Late Timothy
 Expt. 7001
 Seeded 2007

Code	Cultivar	2014 (kg/ha)						
		Cut 1	Tot14	Tot13	Tot12	Tot11	Tot10	5yrTot
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}

New Liskeard Tall Fescue (2007) 2014
 New Liskeard Agricultural Research Station
 (7003)

□ ONTARIO
 New Liskeard
 Tall Fescue
 Expt. 7003
 Seeded 2007

Code	Cultivar	2014 (kg/ha)							
		Cut 1	Cut 2	Tot14	Tot13	Tot12	Tot11	Tot10	5yrTot
5028	CARNIVAL	3994	1498	5492	7004	6578	5506	7788	3236
5037	BARELITE	4273	1799	6071	5570	4718	4154	5941	2645
5523	COURTENAY	4029	1777	5806	6948	5878	6581	7517	3273
5526	KOKANEE	4044	1404	5448	7119	6409	6348	7473	3279
900	Mean	4085	1619	5704	6660	5896	5647	7180	3108
901	CV	7.6	16.8	4.9	5.4	8.4	8.2	2.7	3.
905	MCV	9.9	21.8	6.4	6.9	10.9	10.6	3.5	4.
902	LSD	403.2	353.5	365.1	461.9	641.9	600.5	249.7	1311.
906	LSR	144.7	89.6	58.6	29.8	34.5	24.7	13.5	20.
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.

RCBD arrangement, 4 blocks {1234}

New Liskeard Alfalfa (2007) 2014
 New Liskeard Agricultural Research Station
 (7007)

ONTARIO
 New Liskeard
 Alfalfa
 Expt. 7007
 Seeded 2007

Code	Cultivar	2014 (kg/ha)							
		Cut 1	Cut 2	Tot14	Tot13	Tot12	Tot11	Tot10	5yrTc
1432	OAC_SUPERIOR	6412	2403	8784	10564	8369	10400	8176	4605
1638	54V09	6324	2441	8792	10831	7570	9713	8030	4435
1652	55V48	6391	2492	8905	10327	7169	9822	7358	4341
1653	DS450	5779	2063	7826	10112	8011	9681	7917	4318
1654	DS723	5930	2400	8316	10751	7681	9725	7898	4475
1655	L447HD	5765	2201	7913	10038	7305	9404	7627	4197
1656	13017	6481	2481	8927	10951	8219	9825	7795	4616
1657	15029	6150	2540	8728	10688	8044	9942	7762	4595
1660	QS0131	5951	2075	8020	9321	8058	9415	7753	4305
1661	SF2004	6369	2334	8762	10458	7767	10177	8472	4483
9041	ONEIDA_VR	6135	2329	8471	9783	7877	9792	7857	4405
900	Mean	6153	2342	8495	10348	7825	9809	7877	4435
901	CV	3.7	7.2	3.3	7.4	7.3	3.9	6.8	4.
905	MCV	5.3	10.2	4.6	10.4	10.3	5.5	9.7	5.
902	LSD	324.4	238.5	392.6	1078.7	804.2	544.0	762.2	2494.
906	LSR	45.4	50.0	35.7	66.2	67.0	54.6	68.4	59.
907	Pr>F (Trts)	0.0086	0.0497	0.0010	0.3297	0.3133	0.1868	0.6670	0.144
908	R_square	85.5	84.6	88.3	44.1	70.3	88.3	61.4	76.

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

*Rep 4 was dropped.

Alfalfa Registration (2009) 2014
 New Liskeard Agricultural Research Station
 (9002)

ONTARIO
 New Liskeard
 Alfalfa Registration
 Expt. 9002
 Seeded 2009

Code	Cultivar	2014 (kg/ha)							
		Cut 1	Cut 2	Tot14	Tot13	Tot12	Tot11	Tot10	5yrTot
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	DS721	4848	1449	6313	10013	10385	12539	9730	49078
1673	CW24207	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.

Late Timothy (2009) 2014
 New Liskeard Agricultural Research Station
 (9003)

□ONTARIO
 New Liskeard
 Late Timothy
 Expt. 9003
 Seeded 2009

Code	Cultivar	2014 (kg/ha)						
		Cut 1	Tot14	Tot13	Tot12	Tot11	Tot10	5yrTot
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	NS04-T01	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}