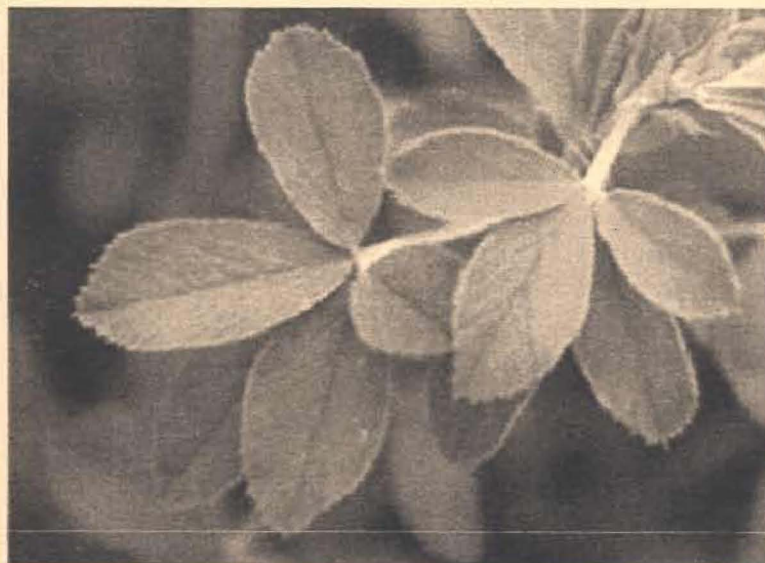


# **ONTARIO FORAGE CROP INVESTIGATIONS**



## **2009 REPORT ON FIELD TRIALS OF VARIETIES AND MIXTURES**

- Guelph
- Kemptville
- New Liskeard
- Thunder Bay

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

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**Ontario Forage Crop Committee**

**Conducted co-operatively by:**

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

This is the 2009 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*Not For Publication:* This is a progress report of co-operative investigations containing data, the interpretation of which may be modified with additional experimentation.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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ONTARIO  
 New Liskeard  
 Alfalfa registration c 2004  
 Expt. 4001  
 Seeded 2004

Code	Cultivar	2009 (kg/ha)		Tot09	Tot08	Tot07	Tot06	Tot05	5yrTot
		Cut 1	Cut 2						
1325	MAGNUM_IV	3075	2583	5673	10362	10290	11171	12802	49930
1602	WL346LH	2371	2361	4741	9137	9523	10245	11902	45575
1603	WL357HQ	3557	2805	6341	10630	10231	9870	11588	49227
1604	P435	3761	2844	6649	11073	10437	10139	11818	49405
1605	P436	3900	2903	6810	10298	10002	9217	11227	47358
1606	P4Q9	3397	2667	6046	9703	9908	10061	10428	46541
1607	GENOA	3166	2705	5859	10602	10050	10168	11936	49467
1610	SA034	3622	2690	6279	10864	10165	10653	11726	50003
1611	SUNSTRA-420	3119	2785	5886	9994	10064	9990	12303	48346
1612	SUNSTRA-421	2404	2585	4991	9290	9740	9322	11930	45545
1613	53V52	3195	2478	5667	9963	10158	10963	12378	49226
1311	PREVAIL	2697	2357	5076	9954	9740	10919	12855	48190
9041	ONEIDA_VR	2842	2717	5569	9731	9662	10517	11584	46056
900	Mean	3162	2652	5814	10123	9998	10249	11883	48067
901	CV	11.0	9.9	9.0	7.8	4.5	8.8	10.1	3.9
905	MCV	13.2	11.9	10.8	9.3	5.4	10.6	12.1	4.7
902	LSD	417.1	315.3	629.9	944.8	540.6	1087.8	1434.1	2253.3
906	LSR	27.3	57.8	30.4	48.8	59.1	55.7	59.1	50.5
907	Pr>F(Trts)	0.0000	0.1053	0.0000	0.0397	0.2328	0.1208	0.3861	0.0073
908	R_square	80.4	59.0	77.8	50.9	67.1	59.2	44.6	67.5

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

ONTARIO  
 New Liskeard  
 alfalfa registration 2005  
 Expt. 5001  
 Seeded 2005

Code	Cultivar	2009 (kg/ha)		Tot09	Tot08	Tot07	Tot06	4yrTot
		Cut 1	Cut 2					
1325	MAGNUM_IV	4353	2940	7309	9992	10039	10247	37541
1432	OAC_SUPERIOR	4828	3139	7948	10651	11383	10953	40976
1613	53V52	4492	3034	7511	10942	10694	11469	40826
1616	53Q30	4240	2841	7089	10570	10563	10093	38340
1622	GS55	4251	2746	7008	10355	10333	10712	38366
1623	GS58	4543	3001	7543	11437	10881	10064	39849
1635	SA_220	4348	2745	7085	9272	10185	9141	35475
911	FILLER	4272	3301	7581	10338	10343	10969	39324
900	Mean	4416	2968	7384	10445	10553	10456	38837
901	CV	6.0	4.8	3.7	7.8	3.8	6.7	3.8
905	MCV	7.4	5.9	4.6	9.6	4.7	8.2	4.6
902	LSD	326.5	174.6	337.8	999.3	496.6	859.6	1793.1
906	LSR	55.5	31.4	36.0	46.2	37.0	36.9	32.6
907	Pr>F(Trts)	0.0873	0.0003	0.0019	0.0969	0.0050	0.0069	0.0008
908	R_square	78.8	92.7	92.5	48.7	79.0	74.8	75.8

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

ONTARIO  
 New Liskeard  
 Alfalfa Registration 2006  
 Expt. 6001  
 Seeded 2006

Code	Cultivar	2009 (kg/ha)		Tot09	Tot08	Tot07	3yrTot
		Cut 1	Cut 2				
1325	MAGNUM_IV	3626	2995	6641	9846	9291	25189
1432	OAC_SUPERIOR	4070	3037	7153	10231	9541	27026
1616	53Q30	3752	2926	6654	10915	9247	26893
1638	54V09	3730	3076	6724	11785	9818	28950
1645	X-692	3856	2992	6840	9867	9517	26246
911	FILLER	3370	2990	6409	9152	8677	24005
900	Mean	3734	3003	6737	10299	9349	26385
901	CV	8.7	8.6	7.5	7.3	5.8	5.7
905	MCV	10.9	10.7	9.3	9.1	7.2	7.1
902	LSD	405.7	321.8	629.4	940.6	675.3	1878.7
906	LSR	58.0	214.4	84.5	35.7	59.2	38.0
907	Pr>F(Trts)	0.2040	0.9782	0.5564	0.0533	0.2219	0.0901
908	R_square	76.0	47.1	65.8	65.9	66.1	66.1

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

ONTARIO  
 New Liskeard  
 Alfalfa  
 Expt. 7007  
 Seeded 2007

Code	Cultivar	2009 (kg/ha)		Tot09	Tot08	2yrTot
		Cut 1	Cut 2			
1432	OAC_SUPERIOR	6073	3597	9650	11087	20628
1638	54V09	6463	3558	9858	10943	20735
1652	55V48	5868	3428	9333	10429	19641
1653	DS450	6499	3777	10382	10908	21257
1654	DS723	6545	3589	10081	10833	21360
1655	L447HD	6215	3463	9650	10555	20348
1656	13017	6275	3438	9693	10717	20251
1657	15029	6613	3619	10145	11020	21014
1660	QS0131	6305	3798	10159	10901	21091
1661	SF2004	6381	3912	10423	11676	22232
911	FILLER	5993	3787	9823	10818	20526
900	Mean	6294	3633	9927	10899	20826
901	CV	7.9	7.3	5.9	5.8	5.3
905	MCV	9.5	8.8	7.1	7.0	6.3
902	LSD	599.2	320.2	702.5	763.7	1315.7
906	LSR	80.4	66.1	64.5	61.2	50.8
907	Pr>F(Trts)	0.5830	0.2322	0.2727	0.4496	0.1837
908	R_square	48.3	47.4	59.7	64.3	59.1

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



ONTARIO  
 Kemptville  
 Alfalfa  
 Reseeding of 2006 Entries  
 Seeded 2007

Code	Variety	Cut 1 Yield (kg/ha)	Cut 2 Yield (kg/ha)	Cut 3 Yield (kg/ha)	Total Yield (kg/ha)
1647	QS416	4408	3164	2719	10292
1638	54V09	4316	2990	2305	9611
1651	QS25006	4416	3565	2456	10437
1325	Magnum_IV	5023	2947	2418	10388
1432	OAC_Superior	4719	3443	2940	11102
1639	SF2303	4919	3033	2725	10677
1640	SF2103	4705	3385	2484	10574
1648	QS34029	4545	3306	2748	10598
1646	WL343HQ	4662	3290	2884	10837
1637	53H92	4811	3193	2719	10722
1644	42H159NK	4998	3099	2624	10721
1649	QS85029	4418	2979	2568	9965
1650	QS35006	4909	3302	2762	10973
911	Filler	4454	3436	2499	10389
1616	53Q30	4538	3509	2861	10908
1641	SF2104	4444	3362	2614	10420
1645	X-692	4636	3694	2732	11061
	Mean	4642	3276	2650	10569
	CV	9.2	13.3	16.2	7.8
	P>F	0.36	0.45	0.80	0.59
	LSD	608.7	622.6	612.1	1176.6

Ontario  
 Thunder Bay  
 Alfalfa trial 2007  
 Seeded 2007

2009 harvest

<u>Code</u>	<u>VARIETY</u>	<u>1st</u> <u>CUT</u>	<u>2nd</u> <u>CUT</u>	<u>TOTAL</u>
1432	OAC_Superior	3109	1296	4405
1654	DS_723	3255	1373	4628
911	Filler	3132	1456	4588
	Mean	3165	1375	4540
	C.V.(%)	7.7	14.9	6.0
	PR>F	0.6752	0.5745	0.5057
	LSD(0.05)	NS	NS	NS

ONTARIO  
 Kemptville  
 Alfalfa  
 Seeded 2008

<b>Code</b>	<b>Variety</b>	<b>Cut 1 Yield (kg/ha)</b>	<b>Cut 2 Yield (kg/ha)</b>	<b>Cut 3 Yield (kg/ha)</b>	<b>Total Yield (kg/ha)</b>
1652	55V48	3905	2583	1607	8094
1577	Starbuck	4320	2391	1615	8326
1666	L33HD	3869	2379	1461	7709
1665	WL363HQ	4094	2350	1540	7985
1432	OAC_Superior	3667	2421	1417	7505
	Mean	3971	2425	1528	7924
	CV	10.2	14.1	8.5	6.3
	P>F	0.27	0.88	0.19	0.22
	LSD	626.6	528.3	200.1	763.3

ONTARIO  
 New Liskeard  
 Alfalfa  
 Expt. 8001  
 Seeded 2008

Code	Cultivar	2009 (kg/ha)		
		Cut 1	Cut 2	Tot09
1432	OAC_SUPERIOR	5493	4778	10431
1577	STARBUCK	5266	5064	9933
1652	55V48	5501	5074	10426
1665	WL363HQ	5102	4619	10007
1666	L333HD	5358	4486	9943
900	Mean	5344	4804	10148
901	CV	13.1	5.9	6.6
905	MCV	16.8	7.5	8.5
902	LSD	899.2	360.3	857.7
906	LSR	225.5	61.3	172.0
907	Pr>F(Trts)	0.9362	0.0756	0.6815
908	R_square	12.5	76.0	49.0

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

ONTARIO  
 Elora  
 Alfalfa Registration Trial  
 Expt. 2865  
 Seeded 2008

Code	Cultivar	2009 (kg/ha)			Tot09
		Cut 1	Cut 2	Cut 3	
1432	OAC_SUPERIOR	5035	2998	1843	9944
1577	STARBUCK	5163	2872	1973	9954
1652	55V48	5124	2815	1772	9799
1665	WL363HQ	4535	2879	1938	9278
1666	L333HD	4970	2552	1549	9044
900	Mean	4965	2823	1815	9604
901	CV	2.0	4.7	7.6	3.0
905	MCV	3.3	7.4	12.0	4.8
902	LSD	161.4	209.7	218.0	458.0
906	LSR	25.7	47.0	51.4	50.3
907	Pr>F(Trts)	0.0029	0.0640	0.0800	0.0306
908	R_square	95.6	89.6	93.9	94.9

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

ONTARIO, New Liskeard, Alfalfa, Expt. 2829  
 Seeded 2005, Partially balanced lattice, 2 repl & 2 repet.

Entry		Yield (kg/ha)		
		Cut 1	Cut 2	Total
1073	SURPASS	4666	3002	7664
1294	DOMINION	4609	2990	7609
1325	MAGNUM_IV	4613	3152	7772
1388	GOLD_PLUS_MF	4479	2881	7364
1392	AMERIGRAZE40	4202	2881	7084
1402	GRAZEMASTER	4649	2732	7386
1409	AFFINITY+Z	4440	2904	7341
1410	STALLION	5262	3160	8416
1411	JOLT	4741	2925	7672
1416	RENAISSANCE	5071	3038	8113
1419	54V54	4887	3029	7917
1432	OAC_SUPERIOR	4947	3039	7984
1448	PICKSD8925MF	4434	2948	7384
1462	RHINO	4561	2722	7277
1471	ENHANCER	3999	2481	6465
1474	GENEVA	4487	2556	7040
1479	MARQUIS	4135	2436	6566
1481	APPROVED	4614	2650	7257
1482	WINTERGOLD	4347	2622	6958
1486	AC BRADOR	4467	2608	7069
1498	134	4406	2800	7191
1504	PICKSD2065MF	4510	2898	7406
1512	WL_327	4710	2964	7685
1521	MAGNUM_3801	4942	3115	8066
1524	HYBRID-FORCE	4887	3019	7912
1525	FORECAST_100	5134	3175	8311
1527	MACON	4968	3539	8514
1535	RELIANCE	5560	3838	9396
1537	VALIANT	5659	3888	9544
1541	MULTIPLIER_3	6009	3770	9787
1577	STARBUCK	5498	3514	9018
1579	ASCEND	5374	3281	8659
1580	STEAK	4830	3437	8267
1582	54V46	5356	3171	8532
1584	54H91	4829	3511	8332
1586	CK2000	5384	3547	8928
1599	WL319HQ	5079	3645	8728
1600	4_2	5884	3738	9625
1601	FSG300LH	5740	3787	9527
1607	GENOA	5383	3710	9090
1609	GH700	5989	3444	9434
1610	SA034	4929	3364	8286
1613	53V52	4206	2821	7021
1615	STEALTHSF	4229	2770	7005
1624	QS05009	3861	2670	6533
1633	GUARDSMAN_II	4810	3204	8013
1635	SA_220	3972	2822	6796
1636	CW75046	4470	3135	7610
911	filler	5256	3683	8933
900	Mean	4846	3123	7969
901	CV(%)	11.0	9.4	9.4
902	LSD (5%)	650	365	922

ONTARIO  
 New Liskeard  
 White Clover  
 Expt. 8005  
 Seeded 2008

Code	Cultivar	2009 (kg/ha)		
		Cut 1	Cut 2	Tot09
8014	ALICE	7342	3772	11102
8028	REGAL GRAZE	7206	3071	10294
8029	CW204	6583	3603	10165
8030	IVORY_2	6506	3045	9568
900	Mean	6909	3373	10282
901	CV	2.2	7.2	3.1
905	MCV	3.0	9.6	4.1
902	LSD	204.8	325.5	420.7
906	LSR	24.5	44.8	27.4
907	Pr>F(Trts)	0.0004	0.0101	0.0028
908	R_square	97.0	95.8	96.8

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

ONTARIO  
 New Liskeard  
 Brome Grass  
 Expt. 7006  
 Seeded 2007

Code	Cultivar	2009 (kg/ha)		Tot09	Tot08	2yrTot
		Cut 1	Cut 2			
2039	BRAVO	5145	1004	6149	13222	19371
2060	PEAK	4999	936	5935	14073	20008
2066	BIG_FOOT	4865	1750	6614	11322	17937
900	Mean	5003	1230	6233	12872	19105
901	CV	8.5	14.0	7.4	8.5	6.8
905	MCV	11.7	19.3	10.1	11.6	9.3
902	LSD	585.0	237.1	631.9	1497.6	1777.8
906	LSR	208.9	29.2	93.0	54.4	85.8
907	Pr>F(Trts)	0.6703	0.0013	0.1829	0.0302	0.1461
908	R_square	71.5	91.1	75.4	71.5	52.7

RCBD arrangement, 4 blocks {1234}



Ontario  
 Thunder Bay  
 Brome Grass 2007  
 Seeded 2007

Code	VARIETY	2009 (kg/ha)		TOTAL
		1st CUT	2nd CUT	
2039	Bravo	4452	1075	5527
2060	Peak	4442	1083	5525
2066	Big_Foot	4453	1204	5656
	Mean	4449	1120	5569
	C.V.(%)	11.1	18.7	11.4
	PR>F	0.9994	0.6429	0.9461
	LSD(0.05)	NS	NS	NS

Bromegrass seeded 2008 (reseeding of 2007)  
 Kemptville Campus site

Code Variety		Cut 1 Yield (kg/ha)	Cut 2 Yield (kg/ha)	Cut 3 Yield (kg/ha)	Total Yield (kg/ha)
2039	Bravo	4415	2191	832	7438
2060	Peak	4981	1976	779	7736
2066	Big_Foot	4569	1997	911	7477
	<b>Mean</b>	4655	2055	841	7550
	<b>CV</b>	9.2	14.0	8.0	7.9
	<b>P&gt;F</b>	0.24	0.54	0.08	0.75
	<b>LSD</b>	744.3	498.7	115.9	1031.5

ONTARIO  
 New Liskeard  
 Orchard Grass Registration  
 Expt. 6002  
 Seeded 2006

Code	Cultivar	2009 (kg/ha)		Tot09	Tot08	Tot07	3yrTot
		Cut 1	Cut 2				
3078	AC_SPLENDOR	4368	1218	5586	9658	7688	22932
3079	OKAY	4611	1472	6082	9789	8133	24004
3086	HAYMATE	3812	1662	5474	9215	8888	23578
3096	OG9401	4517	1532	6049	10309	8180	24538
3111	OG0001	4352	1518	5869	8863	9088	23821
3110	OG01	4493	1488	5981	9143	8814	23938
900	Mean	4359	1482	5840	9496	8465	23802
901	CV	6.9	8.6	6.5	7.3	7.8	4.3
905	MCV	8.5	10.7	8.1	9.0	9.7	5.3
902	LSD	372.4	158.1	473.9	855.8	819.5	1270.3
906	LSR	46.6	35.6	77.9	59.2	58.5	79.1
907	Pr>F(Trts)	0.0246	0.0059	0.1815	0.0954	0.0607	0.4141
908	R_square	75.2	76.1	56.3	58.8	58.4	55.9

RCBD arrangement, 4 blocks {1234}

ONTARIO  
 New Liskeard  
 Orchard Grass  
 Expt. 7004  
 Seeded 2007

Code	Cultivar	2009 (kg/ha)		Tot09	Tot08	2yrTot
		Cut 1	Cut 2			
3003	KAY	5298	2358	7656	11852	19508
3079	OKAY	5483	2347	7831	12892	20722
3086	HAYMATE	4677	2723	7400	12799	20199
3112	QS23	4459	2788	7247	12742	19989
900	Mean	4979	2554	7533	12571	20105
901	CV	10.2	8.7	8.0	7.7	5.5
905	MCV	13.2	11.2	10.4	10.0	7.1
902	LSD	658.9	287.0	784.7	1259.6	1433.7
906	LSR	64.3	65.1	134.4	121.2	118.1
907	Pr>F(Trts)	0.0551	0.0349	0.5571	0.4420	0.5130
908	R_square	58.8	65.6	24.0	66.0	65.0

RCBD arrangement, 4 blocks {1234}

ONTARIO  
 Elora  
 Orchardgrass Test -ofcc &  
 Expt. 2863  
 Seeded 2007

Code	Cultivar	2009 (kg/ha)			Tot09
		Cut 1	Cut 2	Cut 3	
211		5083	1264	1109	7457
221		5526	1563	1184	8273
231		4272	1293	1181	6745
241		3659	1298	1067	6025
251		3327	1074	905	5305
261		3799	1161	1071	6031
3079	OKAY	5385	1097	994	7477
3096	DIVIDEND_VL	4361	1133	882	6376
3110	OG01	5063	1095	961	7119
3112	QS23	3977	1212	1384	6573
3113	PROFIT	5460	1073	1109	7642
900	Mean	4537	1206	1077	6820
901	CV	8.5	11.3	16.3	8.1
905	MCV	10.2	13.6	19.6	9.7
902	LSD	462.5	164.1	211.1	660.7
906	LSR	21.0	33.5	42.1	22.3
907	Pr>F(Trts)	0.0000	0.0006	0.0183	0.0000
908	R_square	86.4	75.6	52.5	81.3

RCBD arrangement, 4 blocks {1234}

ONTARIO

New Liskeard  
 Orchard Grass  
 Expt. 8003  
 Seeded 2008

Code	Cultivar	2009 (kg/ha)		
		Cut 1	Cut 2	Tot09
3079	OKAY	7038	3098	10136
3086	HAYMATE	5286	3237	8522
3114	OG06	6653	2984	9637
3115	ORG-08-02	7126	2682	9808
3117	HAYMASTER	5546	3136	8682
900	Mean	6330	3027	9357
901	CV	8.3	8.7	6.1
905	MCV	10.5	11.0	7.7
902	LSD	663.4	332.7	722.0
906	LSR	36.1	60.0	44.7
907	Pr>F(Trts)	0.0007	0.0888	0.0062
908	R_square	78.9	61.5	73.2

RCBD arrangement, 4 blocks {1234}

Orchardgrass seeded 2008  
Kemptville Campus site

Variety		Cut 1 Yield (kg/ha)	Cut 2 Yield (kg/ha)	Cut 3 Yield (kg/ha)	Total Yield (kg/ha)
3115	ORG-08-02	3268	1702	1112	6083
3113	Profit	2501	2019	820	5340
3079	Okay	3435	1716	1308	6458
3114	OG06	3854	2027	948	6830
<b>Mean</b>		3265	1866	1047	6178
<b>CV</b>		12.7	8.9	12.6	7.0
<b>P&gt;F</b>		0.01	0.03	0.00	0.00
<b>LSD</b>		662.9	264.3	211.3	687.1

ONTARIO  
 Elora  
 Late Orchardgrass  
 Expt. 2866  
 Seeded 2008

Code	Cultivar	2009 (kg/ha)			
		Cut 1	Cut 2	Cut 3	Tot09
3079	OKAY	5904	1817	1177	8898
3113	PROFIT	6518	2496	1386	10400
3114	OG06	6942	2282	1273	10498
3115	ORG-08-02	6367	1676	952	8994
3117	HAYMASTER	5995	2301	1392	9688
900	Mean	6345	2115	1236	9696
901	CV	15.6	6.7	6.3	11.3
905	MCV	19.6	8.5	8.0	14.3
902	LSD	1246.3	179.3	98.9	1385.4
906	LSR	120.1	21.9	22.4	86.6
907	Pr>F(Trts)	0.5968	0.0000	0.0000	0.1791
908	R_square	61.1	91.3	90.2	69.7

RCBD arrangement, 4 blocks {1234}



ONTARIO  
 New Liskeard  
 Tall Fescue 2004  
 Expt. 4004  
 Seeded 2004

Code	Cultivar	2009 (kg/ha)		Tot09	Tot08	Tot07	Tot06	Tot05	5yrTot
		Cut 1	Cut 2						
5032	EXCELLA	1357	2605	3962	6335	6467	10038	5669	32471
5523	COURTENAY	3145	2294	5438	8340	8097	11262	6328	39465
900	Mean	2251	2450	4700	7337	7282	10650	5999	35968
901	CV	8.9	17.4	7.2	5.9	6.6	10.6	4.0	4.1
905	MCV	14.9	29.0	11.9	9.9	11.0	17.7	6.7	6.8
902	LSD	334.6	709.3	559.6	723.5	804.5	1886.3	399.8	2463.6
906	LSR	18.7	227.8	37.9	36.1	49.4	154.1	60.7	35.2
907	Pr>F(Trts)	0.0031	0.3792	0.0115	0.0103	0.0206	0.2241	0.0331	0.0098
908	R_square	98.4	58.3	94.9	94.2	88.9	55.6	92.2	93.9

RCBD arrangement, 4 blocks {1234}

ONTARIO  
 New Liskeard  
 Tall Fescue  
 Expt. 7003  
 Seeded 2007

Code	Cultivar	2009 (kg/ha)		Tot09	Tot08	2yrTot
		Cut 1	Cut 2			
5028	CARNIVAL	5711	3622	9333	14797	24130
5037	BARELITE	4547	3083	7630	13386	21016
5523	COURTENAY	5899	3252	9151	15151	24303
5526	KOKANEE	5561	3360	8921	14236	23157
900	Mean	5429	3329	8759	14393	23151
901	CV	7.9	9.6	6.1	7.3	4.3
905	MCV	10.2	12.4	7.9	9.4	5.5
902	LSD	554.3	413.9	691.8	1356.7	1276.0
906	LSR	41.0	76.7	40.6	76.8	38.8
907	Pr>F(Trts)	0.0069	0.1830	0.0060	0.1617	0.0041
908	R_square	76.6	41.4	75.5	59.2	79.6

RCBD arrangement, 4 blocks {1234}

ONTARIO  
Thunder Bay  
Tall Fescue  
Seeded 2007

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Code	Cultivar	2009 (kg/ha)		
		Cut 1	Cut 2	Tot09
5037	Barelite	2707	1221	3928
5523	Courtney	2943	1335	4278
5526	Kokanee	2570	1829	4399
5028	Carnival	3235	1118	4353
	Mean	2864	1376	4240
	C.V.	9.8	21.4	11.1
	PR>F	0.038	0.033	0.5148
	LSD(0.05)	448	472	N.S.

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ONTARIO  
 Elora  
 Tall Fescue  
 Expt. 2867  
 Seeded 2008

Code	Cultivar	2009 (kg/ha)			
		Cut 1	Cut 2	Cut 3	Tot09
5040	BARIANNE	6496	1934	1141	9571
5041	KORA	6997	2782	1693	11472
5042	FTF-08-01	6809	2679	1617	11105
5043	TF0202	6778	2391	1412	10580
5523	COURTENAY	7224	2695	1555	11474
5526	KOKANEE	7531	2901	1632	12064
900	Mean	6972	2563	1509	11044
901	CV	5.5	7.8	9.5	5.2
905	MCV	6.8	9.6	11.8	6.4
902	LSD	476.8	247.2	178.4	707.7
906	LSR	46.1	25.6	32.3	28.4
907	Pr>F(Trts)	0.0242	0.0001	0.0008	0.0004
908	R_square	76.9	83.1	76.7	83.1

RCBD arrangement, 4 blocks {1234}

Tall Fescue seeded 2008  
Kemptville Campus site

Code	Variety	Cut 1 Yield (kg/ha)	Cut 2 Yield (kg/ha)	Cut 3 Yield (kg/ha)	Total Yield (kg/ha)
5526	Kokanee	3158	2165	735	6057
5040	Barianne	2753	1762	868	5383
5039	PST-5CAN	2716	1675	618	5009
5042	FTF-08-01	3504	2547	772	6822
5523	Courtenay	3170	2027	726	5923
5041	Kora	3282	2190	844	6316
	<b>Mean</b>	3097	2061	760	5918
	<b>CV</b>	10.3	11.4	10.2	7.7
	<b>P&gt;F</b>	0.08	0.01	0.03	0.01
	<b>LSD</b>	581.9	428.7	141.6	830.8

ONTARIO  
 New Liskeard  
 Tall Fescue  
 Expt. 8002  
 Seeded 2008

Code	Cultivar	2009 (kg/ha)		
		Cut 1	Cut 2	Tot09
5039	PST-5CAN	7235	3620	10856
5040	Barianne	7957	3857	11814
5041	Kora	8573	4244	12816
5042	FTF-0801	7338	3411	10748
5523	COURTENAY	7639	3510	11148
5526	KOKANEE	7120	3511	10631
900	Mean	7644	3692	11335
901	CV	17.3	9.9	10.9
905	MCV	21.5	12.3	13.5
902	LSD	1643.2	452.9	1527.2
906	LSR	113.1	54.4	69.9
907	Pr>F(Trts)	0.6463	0.0506	0.1611
908	R_square	31.2	53.9	47.8

RCBD arrangement, 4 blocks {1234}

ONTARIO  
 New Liskeard  
 Reed Canary Test 2004  
 Expt. 4005  
 Seeded 2004

Code	Cultivar	2009 (kg/ha)		Tot09	Tot08	Tot07	Tot06	Tot05	5yrTot
		Cut 1	Cut 2						
5013	PALATON	2739	2033	4772	7636	7969	10533	7752	38663
5036	PR04-01	3038	2285	5323	7891	7861	9784	7332	38191
900	Mean	2888	2159	5048	7764	7915	10159	7542	38427
901	CV	14.4	11.3	10.3	8.2	12.2	4.2	10.1	1.9
905	MCV	23.9	18.8	17.1	13.6	20.2	7.0	16.7	3.1
902	LSD	691.4	406.8	862.2	1058.5	1600.4	714.6	1262.2	1207.8
906	LSR	231.3	161.2	156.4	415.9	1488.0	95.4	300.3	256.2
907	Pr>F(Trts)	0.3856	0.2405	0.2295	0.6122	0.8556	0.0913	0.4930	0.4282
908	R_square	45.0	51.3	47.3	77.9	33.7	85.6	68.0	96.1

RCBD arrangement, 4 blocks {1234}

Ontario  
 New Liskeard  
 Late Timothy  
 Expt. 7001  
 Seeded 2007

Code	Cultivar	2009 (kg/ha)		Tot09	Tot08	2yrTot
		Cut 1	Cut 2			
6002	CLIMAX	7263	1830	9093	11264	20357
6026	ITASCA	6354	1810	8164	13498	21661
6166	BARFLEO	7016	2094	9110	11868	20978
6167	BOR2005	6349	1777	8126	13137	21263
6168	BARPENTA	6300	1991	8291	10064	18355
6169	KARA	6181	1735	7916	13067	20983
900	Mean	6577	1873	8450	12150	20599
901	CV	6.2	12.5	5.0	8.2	5.5
905	MCV	7.7	15.5	6.2	10.2	6.8
902	LSD	504.2	290.2	527.7	1240.9	1407.4
906	LSR	46.6	80.7	44.2	36.1	42.6
907	Pr>F(Trts)	0.0080	0.2745	0.0033	0.0015	0.0125
908	R_square	64.7	34.1	69.4	71.4	62.4

RCBD arrangement, 4 blocks {1234}



ONTARIO  
 Elora  
 Late Timothy  
 Expt. 2869  
 Seeded 2008

Code	Cultivar	2009 (kg/ha)		
		Cut 1	Cut 2	Tot09
6002	CLIMAX	7935	2259	10194
6026	ITASCA	8151	3071	11222
6066	NORMAX	7625	3368	10992
6081	MARIPOSA	8152	3253	11405
6086	ALEXANDER	7520	2528	10048
6095	ARGUS	6961	2702	9663
6136	EXPRESS	8142	3018	11160
6138	AURORA	7448	2833	10281
6161	TREASURE	8421	3266	11687
6170	CREST	7983	3210	11193
900	Mean	7834	2951	10785
901	CV	5.2	8.7	5.5
905	MCV	6.3	10.5	6.7
902	LSD	490.2	309.7	717.9
906	LSR	33.6	27.9	35.5
907	Pr>F(Trts)	0.0009	0.0000	0.0004
908	R_square	66.4	78.1	66.2

RCBD arrangement, 4 blocks {1234}

ONTARIO  
 New Liskeard  
 Timothy  
 Expt. 8006  
 Seeded 2008

Code	Cultivar	2009 (kg/ha)		
		Cut 1	Cut 2	Tot09
6002	CLIMAX	7222	2634	9857
6026	ITASCA	7898	2945	10844
6066	NORMAX	8150	3223	11373
6081	MARIPOSA	7369	3272	10641
6086	ALEXANDER	7161	3089	10250
6095	ARGUS	8234	2942	11176
6136	EXPRESS	7326	2886	10211
6138	AURORA	7082	3126	10207
6161	TREASURE	7159	3507	10666
6170	CREST	7449	3249	10697
900	Mean	7505	3087	10592
901	CV	8.5	9.7	6.3
905	MCV	10.3	11.6	7.6
902	LSD	771.1	358.9	803.8
906	LSR	66.9	41.1	53.0
907	Pr>F(Trts)	0.1161	0.0213	0.0822
908	R_square	53.7	65.2	64.1

RCBD arrangement, 4 blocks {1234}

ONTARIO  
 Elora  
 Early Timothy  
 Expt. 2868  
 Seeded 2008

Code	Cultivar	2009 (kg/ha)		
		Cut 1	Cut 2	Tot09
6030	TORO	7459	1851	9311
6050	RICHMOND	7717	1404	9121
6171	TM9701	7850	1695	9544
900	Mean	7675	1650	9325
901	CV	3.9	11.9	3.9
905	MCV	5.4	16.4	5.3
902	LSD	414.6	270.3	497.8
906	LSR	106.2	60.4	117.7
907	Pr>F(Trts)	0.2550	0.0470	0.3250
908	R_square	46.2	71.5	36.8

RCBD arrangement, 4 blocks {1234}

ONTARIO  
 New Liskeard  
 Meadow Fescue Test 2004  
 Expt. 4003  
 Seeded 2004

Code	Cultivar	2009 (kg/ha)						
		Cut 1	Tot09	Tot08	Tot07	Tot06	Tot05	5yrTot
5033	MIMER	2385	2385	4989	3100	6797	5753	23024
5034	EPIC	2276	2276	5231	3317	7722	6158	24703
5035	MERIFEST	2420	2420	4831	3459	8388	5424	24522
900	Mean	2361	2361	5017	3292	7636	5778	24083
901	CV	4.3	4.3	7.7	7.9	6.6	5.5	4.5
905	MCV	5.9	5.9	10.6	10.8	9.0	7.5	6.1
902	LSD	138.7	138.7	530.6	356.6	690.1	435.9	1476.2
906	LSR	96.5	96.5	132.7	99.5	43.4	59.4	87.9
907	Pr>F(Trts)	0.1907	0.1907	0.3964	0.2245	0.0126	0.0462	0.1283
908	R_square	92.4	92.4	87.2	62.3	84.6	86.7	76.6

RCBD arrangement, 4 blocks {1234}

ONTARIO  
 New Liskeard  
 Meadow Fescue  
 Expt. 7002  
 Seeded 2007

Code	Cultivar	2009 (kg/ha)		Tot09	Tot08	2yrTot
		Cut 1	Cut 2			
5033	MIMER	4590	1833	6423	11087	17510
5034	EPIC	4557	2062	6619	10336	16955
5038	PRADEL	4539	2490	7029	10589	17619
900	Mean	4562	2128	6690	10671	17361
901	CV	3.5	8.3	2.2	10.9	6.4
905	MCV	4.8	11.5	3.0	14.9	8.8
902	LSD	217.0	244.1	201.8	1592.2	1530.0
906	LSR	425.3	37.2	33.3	212.1	230.7
907	Pr>F(Trts)	0.8934	0.0060	0.0036	0.6696	0.6847
908	R_square	90.9	86.3	96.0	44.5	62.9

RCBD arrangement, 4 blocks {1234}

Meadow Fescue seeded 2007  
Douglas site

Code	Variety	Cut 1 Yield (kg/ha)	Cut 2 Yield (kg/ha)	Total Yield (kg/ha)
5033	Mimer	2042	1024	3067
5034	Epic	1801	1120	2921
5038	Pradel	2195	1227	3422
	Mean	2013	1124	3137
	CV	15.9	16.5	12.7
	P>F	0.29	0.36	0.27
	LSD	552.7	320.8	690.5

Ontario  
 Thunder Bay  
 Meadow Fescue  
 seeded 2007

<b>Code</b>	<b>Variety</b>	<b>Cut 1 Yield (kg/ha)</b>	<b>Cut 2 Yield (kg/ha)</b>	<b>Total Yield (kg/ha)</b>
5033	Mimer	3805	556	4360
5034	Epic	3640	629	4269
5038	Pradel	3651	804	4455
	Mean	3698	663	4361
	CV	8.4	15.1	9.13
	P>F	0.7183	0.0314	0.8095
	LSD	NS	173	NS

ONTARIO  
 New Liskeard  
 Perennial Ryegrass  
 Expt. 8004  
 Seeded 2008

Code	Cultivar	2009 (kg/ha)		
		Cut 1	Cut 2	Tot09
8522	CITADEL	3527	2891	6418
8523	CONDESA	3502	2928	6430
8525	BASTION	4717	2756	7472
8534	LACTAL	3336	3078	6414
900	Mean	3960	2882	6841
901	CV	16.4	11.4	11.0
905	MCV	20.5	14.3	13.8
902	LSD	813.0	411.5	943.3
906	LSR	58.9	127.5	89.1
907	Pr>F(Trts)	0.0081	0.4707	0.0624
908	R_square	74.2	53.8	67.9

RCBD arrangement, 4 blocks {1234}



ONTARIO  
 Elora  
 Perennial Ryegrass; Persistence notes  
 Expt. 2870  
 Seeded 2008

Code	Cultivar	2009 (kg/ha)	
		Cut 1	% stand
8514	TIVOLI	1730	36
8515	GARIBALDI	2360	56
8518	BARNHEM	10353	98
8519	REMINGTON	5284	94
8520	SPIDOLA	3667	49
8521	PSGG9-04	6417	100
8522	CITADEL	2276	77
8523	CONDESA	1398	20
8525	BASTION	1335	60
8533	KENTAUR	3375	77
8535	BARUTTI	6503	98
900	Mean	4064	
901	se	333.12	

RCBD arrangement, 4 blocks {1234}

Heading Notes, Elora, 2009  
 Stage R2( spikelets emerged but not peduncle)

	Code	Heading Date
Bromegrass		
Peak	2060	June 4
Big Foot	2066	May 27
Orchardgrass		
Okay	3079	June 2
Haymate	3086	May 31
Dividend VL	3096	June 8
OG01	3110	June 5
OG0001	3111	May 28
QS23	3112	June 3
Meadow Fescue		
Mimer	5033	June 8
Epic	5034	June 8
Pradel	5038	June 8
Tall Fescue		
Courtney	5523	June 14
Barelite	5037	June 8
Late timothy		
Climax	6002	June 19
Itasca	6026	June 19
Bor 2005	6167	June 19
Barpenta	6168	June 19
Barefleo	6166	June 19
Kara	6169	June 19