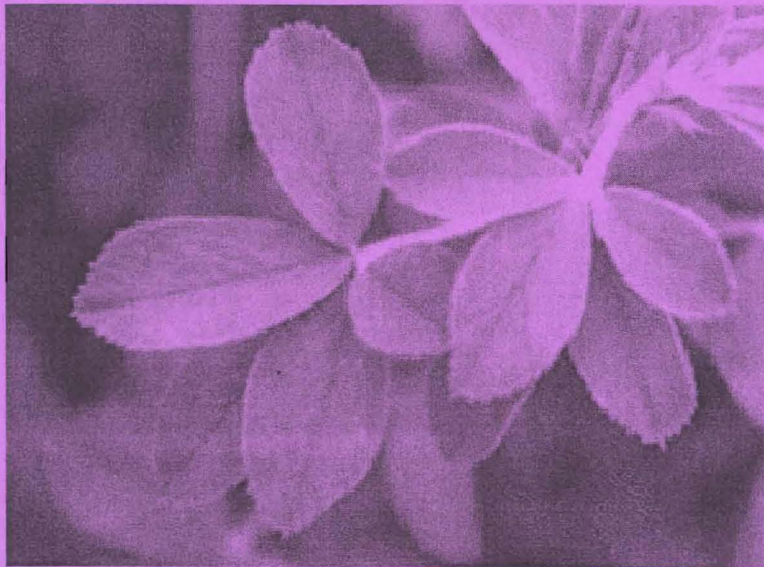


ONTARIO FORAGE CROP INVESTIGATIONS



2010 REPORT ON FIELD TRIALS OF VARIETIES AND MIXTURES

- Guelph
- Kemptville
- New Liskeard
- Thunder Bay

REPORT ON FORAGE CROPS TRIALS

ONTARIO FORAGE CROP COMMITTEE

Compiled by: Donna Hancock

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

Conducted co-operatively by:

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

This is the 2010 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Not For Publication: This is a progress report of co-operative investigations containing data, the interpretation of which may be modified with additional experimentation.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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Kemptville
 Alfalfa seeded 2007 (re-seeding of 2006 alfalfa) Douglas site
 Harvested 2010

Variety	Cut 1	Cut 2	Cut 3	Total
QS416	2952.0	1589.6	2449.1	6990.6
54V09	4295.8	1793.7	2705.9	8795.4
QS25006	3280.4	2766.6	2519.5	8566.5
Magnum_IV	3455.8	2383.1	2866.4	8705.4
OAC_Superior	3747.7	1906.0	2988.4	8642.1
SF2303	3590.7	1820.4	2719.6	8130.6
SF2103	2955.4	1781.7	2615.4	7352.4
QS34029	3515.8	1936.4	2744.3	8196.4
WL343HQ	3391.2	2173.3	2937.4	8501.8
53H92	3789.9	1568.1	2941.7	8299.8
42H159NK	3606.1	1526.8	2500.4	7633.3
QS85029	3274.6	2046.1	2628.4	7949.1
QS35006	3859.2	2142.1	3318.5	9319.8
Filler	3164.9	1812.9	2595.1	7572.8
53Q30	3780.4	1931.6	2784.2	8496.2
SF2104	3209.8	1315.5	2875.5	7400.7
X-692	3259.4	1494.8	2824.2	7578.3
Mean	3478.16	1881.68	2765.51	8125.35
CV	9.25	17.3	13.03	8.38
LSD	459.871	465.2	514.908	973.546

ONTARIO
 New Liskeard
 Alfalfa
 Expt. 7007
 Seeded 2007

Code	Cultivar	2010 (kg/ha)					
		Cut 1	Cut 2	Tot10	Tot09	Tot08	3yrTot
1432	OAC_SUPERIOR	5025	3271	8274	9650	11087	28750
1638	54V09	5182	2745	7845	9858	10943	28564
1652	55V48	4848	2553	7320	9333	10429	27009
1653	DS450	5075	2785	7798	10382	10908	29213
1654	DS723	5243	2810	8163	10081	10833	29476
1655	L447HD	4843	2782	7571	9650	10555	27914
1656	13017	4911	2709	7604	9693	10717	27613
1657	15029	4810	2606	7502	10145	11020	28354
1660	QS0131	4892	2927	7825	10159	10901	29063
1661	SF2004	5495	2994	8459	10423	11676	30844
911	FILLER	5080	2610	7834	9823	10818	28482
900	Mean	5037	2799	7836	9927	10899	28662
901	CV	8.6	7.9	6.5	5.9	5.8	4.7
905	MCV	10.3	9.5	7.8	7.1	7.0	5.7
902	LSD	519.3	267.0	614.7	702.5	763.7	1634.1
906	LSR	75.8	37.2	54.0	64.5	61.2	42.6
907	Pr>F(Trts)	0.5541	0.0061	0.1152	0.2727	0.4496	0.0539
908	R_square	66.6	71.2	61.2	59.7	64.3	61.4

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

Kemptville
 Alfalfa seeded 2009 (reseeding of 2007 Registration D test)
 Harvested 2010

Variety	Cut 1	Cut 2	Cut 3	Total
OAC_Superior	5622.2	2904.6	3524.5	12051.3
54V09	5706.4	2887.4	3265.0	11858.8
55V48	6516.0	2482.0	3420.5	12418.5
DS723	5721.7	2521.2	3670.6	11913.5
SF2004	6356.7	2916.8	3466.4	12739.8
94023	5433.0	2939.2	2615.5	10987.7
Starbuck	6105.6	2912.0	2981.9	11999.5
53H92	5725.8	2710.3	3202.5	11638.5
4A421	5596.3	2450.3	2425.1	10471.7
CW24033	5846.1	3160.3	3805.8	12812.3
QS0131	5627.9	3018.2	3633.6	12279.7
DS450	5584.1	2264.3	2769.9	10618.3
Mean	5820.14	2763.87	3231.78	11815.79
CV	12.18	10.13	12.57	8.02
LSD	1023.79	404.26	586.63	1368.59

ONTARIO
 Elora
 Alfalfa Registration Trial
 Expt. 2865
 Seeded 2008

Code	Cultivar	2010 (kg/ha)					
		Cut 1	Cut 2	Cut 3	Tot10	Tot09	2yrTot
1432	OAC_SUPERIOR	3505	2485	1573	7790	9944	17898
1577	STARBUCK	4080	2715	1526	8294	9954	17988
1652	55V48	3868	2438	1275	7449	9799	17155
1665	WL363HQ	3714	2537	1640	7899	9278	17245
1666	L333HD	3269	1964	1041	6197	9044	15363
900	Mean	3687	2428	1411	7526	9604	17130
901	CV	9.3	7.9	9.9	5.4	3.0	3.3
905	MCV	14.7	12.6	15.6	8.6	4.8	5.2
902	LSD	543.0	305.3	220.7	644.0	458.0	886.8
906	LSR	66.9	40.7	36.9	30.7	50.3	33.8
907	Pr>F(Trts)	0.2539	0.0422	0.0350	0.0089	0.0306	0.0206
908	R_square	87.2	94.0	94.5	96.4	94.9	96.9

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

Kemptville
Alfalfa
seeded 2008
Harvested 2010

Variety	Cut 1	Cut 2	Cut 3	Total
55V48	3099.0	2392.8	1796.9	7288.6
Starbuck	2166.6	1796.7	1503.0	5466.3
L33HD	2661.7	1521.4	1186.0	5369.0
WL363HQ	2283.4	1874.7	1846.6	6004.7
OAC_Superior	2399.1	2271.6	1545.2	6216.0
Mean	2522.0	1971.4	1575.5	6068.9
CV	12.0	8.9	13.4	5.6
LSD	506.3	294.5	351.7	571.1

ONTARIO
 New Liskeard
 Alfalfa
 Expt. 8001
 Seeded 2008

Code	Cultivar	2010 (kg/ha)				
		Cut 1	Cut 2	Tot10	Tot09	2yrTot
1432	OAC_SUPERIOR	6032	3109	9170	10431	19555
1577	STARBUCK	5690	2856	8352	9933	18275
1652	55V48	5932	2972	9011	10426	19687
1665	WL363HQ	5307	2767	8094	10007	18073
1666	L333HD	5863	2895	8798	9943	18575
900	Mean	5765	2920	8685	10148	18833
901	CV	7.5	11.0	6.0	6.6	4.5
905	MCV	9.6	14.1	7.7	8.5	5.8
902	LSD	551.7	411.8	665.7	857.7	1096.2
906	LSR	76.1	120.2	61.8	172.0	67.9
907	Pr>F(Trts)	0.2353	0.6449	0.0801	0.6815	0.0934
908	R_square	64.8	69.3	76.5	49.0	71.1

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

ONTARIO
 New Liskeard
 Alfalfa Registration
 Expt. 9002
 Seeded 2009

Code	Cultivar	2010 (kg/ha)		
		Cut 1	Cut 2	Tot10
1432	OAC_SUPERIOR	6501	2720	9226
1577	STARBUCK	6583	2878	9502
1648	CFL0913	6700	2884	9665
1667	54Q32	6302	2714	8948
1668	4S417	6922	2913	9805
1669	WL353LH	6244	2694	8887
1670	MAGNUM_VI_WET	6678	3072	9812
1671	CW_045025	5789	2665	8369
1672	DS_721	6797	2893	9730
1673	CW_24207	6324	2705	9096
1674	LEGENADAIRY_5	6565	2914	9391
1675	CW_02013	6458	2899	9384
900	Mean	6489	2829	9318
901	CV	5.2	6.0	5.0
905	MCV	6.2	7.2	6.0
902	LSD	404.6	205.0	555.2
906	LSR	35.7	50.3	38.5
907	Pr>F(Trts)	0.0091	0.0536	0.0050
908	R_square	72.9	66.7	71.7

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

ONTARIO
 Elora
 Alfalfa Registration Trial
 Expt. 2872
 Seeded 2009

Code	Cultivar	2010 (kg/ha)			
		Cut 1	Cut 2	Cut 3	Tot10
1432	OAC_SUPERIOR	4123	2445	1713	8160
1498	134	3825	2396	1656	7917
1577	STARBUCK	4259	2285	1455	7861
1648	ACTIS	4049	2596	1800	8437
1667	54Q32	4016	2461	1657	8129
1668	4S417	4630	2602	1810	9117
1669	WL353LH	3549	2928	1508	8036
1670	MAGNUM_VI_WET	4243	2648	1838	8731
1671	CW_045025	4265	2641	2007	8908
1672	DS_721	3992	2316	1429	7806
1673	ADRENALIN	4147	2483	1657	8362
1674	LEGENDAIRY_5	3811	2311	1614	7766
1675	CW_02013	4201	2332	1486	7956
900	Mean	4086	2496	1664	8245
901	CV	5.9	18.3	9.1	7.5
905	MCV	7.1	22.0	10.9	9.0
902	LSD	290.8	549.3	181.2	744.5
906	LSR	26.9	85.4	31.3	55.1
907	Pr>F(Trts)	0.0002	0.8223	0.0001	0.0605
908	R_square	86.5	48.1	92.7	84.4

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

Kemptville
 Alfalfa
 seeded 2009
 Harvested 2010

Variety	Cut 1	Cut 2	Cut 3	Total
CFL0913	6312.0	3283.0	3382.4	12977.4
CW02013	6671.8	3612.6	3631.3	13915.8
CW045025	7582.9	4028.2	3598.2	15209.3
CW24207	6815.5	3529.6	3395.7	13740.8
DS_721	7600.5	4078.7	3289.4	14968.6
Legendairy_5	6276.5	2682.9	3177.9	12137.2
Magnum_VI_Wet	7330.0	3915.9	4155.1	15401.0
OAC_Superior	6681.1	3925.2	3420.3	14026.6
Starbuck	7518.7	3810.1	3693.3	15022.1
WL353LH	6846.1	3483.0	3569.8	13899.0
134	7349.9	4176.9	3402.1	14928.8
4S417	8210.9	4573.4	3737.9	16522.1
54Q32	7193.0	3930.6	3504.3	14627.8
Mean	7106.8	3771.5	3535.2	14413.6
CV	13.2	10.7	10.7	8.5
LSD	1343.2	577.9	542.5	1751.8

Ontario
Thunder Bay
Alfalfa
Seeded 2009

Variety	Cut 1	Cut 2	Total
CW_24207	3396	2408	5805
DS_721	3176	2198	5374
OAC_Superior	3429	2191	5620
Starbuck	3421	2134	5554
4S417	3529	2357	5886
54Q32	3370	2189	5558
MEAN	3387	2246	5633
C.V. (%)	8	10	6
PR>F	0.5992	0.4289	0.2644
LSD (0.05)	NS	NS	465

Elora
 Performance Trial 2009 -Three cut management
 Expt. 2877
 Seeded 2009

Code	Cultivar	2010 (kg/ha)			Total
		Cut 1	Cut 2	Cut 3	
1325	MAGNUM_IV	3899	3403	1550	8935
1409	AFFINITY+Z	3643	3053	1291	8005
1432	OAC_SUPERIOR	4056	3420	1872	9341
1481	APPROVED	3362	3121	1395	7847
1482	WINTERGOLD	3604	3098	1506	8206
1498	134	3848	3388	1544	8711
1521	MAGNUM_3801	3861	3493	1755	9129
1525	FORECAST_100	3560	3198	1514	8283
1537	VALIANT	3381	3125	1449	7904
1598	54H11	3744	3116	1494	8363
1599	WL319HQ	3561	3567	1664	8787
1600	SATELLITE	3725	3253	1562	8547
1603	WL357HQ	4140	3522	1760	9449
1614	94023	3681	3301	1535	8470
1617	WL348AP	3721	3419	1589	8707
1618	WL345LH	3538	3107	1426	8090
1619	EVERMORE	3469	3261	1590	8367
1624	LEXUS	3902	3625	1793	9261
1630	FSG400LH	3486	3390	1496	8342
1636	RADAR	3837	3318	1510	8655
1637	53H92	3576	3156	1399	8139
1646	WL343HQ	3846	3654	1713	9235
1649	STELLAR_FG	3897	3774	1940	9638
1652	55V48	3883	3250	1634	8759
1659	4A421	3911	3710	1773	9402
1664	SUPER_NOVA	3680	3232	1347	8224
1667	54Q32	3565	3443	1472	8495
1675	CW_02013	3302	3487	1573	8358
1676	QS44031	3930	3837	1865	9632
1677	QS4010	3409	3032	1366	7866
1678	SURVIVOR	3527	3374	1655	8498
1680	RESPONSE_WT	3660	3354	1594	8644
900	Mean	3609	3356	1580	8632
901	CV	10.7	9.4	13.2	8.9
902	LSD	551.2	438.9	290.2	1080

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

New Liskeard
 Performance Trial 2009 -Two cut management
 Expt. 2879
 Seeded 2009

Code	Cultivar	2010 (kg/ha)		
		Cut 1	Cut 2	Total
1325	MAGNUM_IV	6468	2915	9299
1409	AFFINITY+Z	6859	2704	9582
1432	OAC_SUPERIOR	6550	3153	9642
1481	APPROVED	6041	2762	8725
1482	WINTERGOLD	6565	3074	9656
1498	134	6589	2926	9545
1521	MAGNUM_3801	6313	2697	9025
1525	FORECAST_1000	6504	2802	9268
1537	VALIANT	6686	2881	9547
1598	54H11	6295	2553	8879
1599	WL319HQ	6269	2908	9176
1600	SATELLITE	6501	2717	9224
1603	WL357HQ	6580	2916	9464
1614	94023	5787	2646	8534
1617	WL348AP	6960	2679	9627
1618	WL345LH	6312	2839	9087
1619	EVERMORE	6739	2887	9576
1624	LEXUS	5801	2600	8414
1630	FSG400LH	6528	2836	9315
1636	RADAR	6298	2680	9021
1637	53H92	6407	2919	9227
1646	WL343HQ	6210	2833	8992
1649	STELLAR_FG	6325	2778	9181
1652	55V48	6126	2682	8926
1659	4A421	5658	2915	8609
1664	SUPER_NOVA	6559	2590	9228
1667	54Q32	6135	2806	8877
1675	CW_02013	6660	2791	9511
1676	QS44031	5962	2938	8851
1677	QS4010	6052	3001	9105
1678	SURVIVOR	6995	2938	9989
1680	RESPONSE_WT	6585	2933	9536
900	Mean	6392	2822	9214
901	CV	7.1	8.0	5.7
902	LSD	733.6	382.3	841.1

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

Elora
 Performance Trial 2009 B-four cut management
 Expt. 2881
 Seeded 2009

Code	Cultivar	2010 (kg/ha)				Total
		Cut 1	Cut 2	Cut 3	Cut 4	
1325	MAGNUM_IV	2987	2005	1871	597	7434
1409	AFFINITY+Z	3167	2059	1949	503	7724
1432	OAC_SUPERIOR	3055	2061	1941	662	7715
1481	APPROVED	3009	2046	1942	577	7538
1482	WINTERGOLD	2994	2003	1726	616	7372
1498	134	2883	2010	1784	592	7282
1521	MAGNUM_3801	2902	1942	1691	668	7178
1525	FORECAST_100	2909	1927	1865	561	7282
1537	VALIANT	3112	2148	1831	673	7800
1598	54H11	3047	2122	1762	652	7533
1599	WL319HQ	2990	2182	2104	748	8027
1600	SATELLITE	2948	1991	2106	642	7685
1603	WL357HQ	3135	2057	1999	627	7784
1614	94023	3046	2116	1936	865	7966
1617	WL348AP	3259	2125	2001	668	8062
1618	WL345LH	2865	1954	1684	550	7095
1619	EVERMORE	3100	2164	1805	608	7695
1624	LEXUS	2969	2108	1920	664	7657
1630	FSG400LH	3056	2199	2083	552	7917
1636	RADAR	3345	2397	2158	842	8695
1637	53H92	2828	1825	1543	562	6729
1646	WL343HQ	2782	2156	2091	754	7770
1649	STELLAR_FG	3378	2441	2179	815	8781
1652	55V48	3508	2248	1916	768	8433
1659	4A421	3134	2233	1973	790	8158
1664	SUPER_NOVA	2957	1943	1795	491	7188
1667	54Q32	3101	2245	2011	791	8154
1675	CW_02013	3136	2182	2105	750	8130
1676	QS44031	3340	2406	2263	867	8909
1677	QS4010	2657	1890	1891	635	7066
1678	SURVIVOR	2978	2025	1732	632	7424
1680	RESPONSE_WT	2937	1986	1784	577	7295
900	Mean	3047	2099	1918	666	7729
901	CV	8.3	9.1	12.2	22.3	8.9
902	LSD	351.7	266.9	326.8	206.7	963.9

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

New Liskeard
 Performance Trial 2009 -Three cut management
 Expt. 2883
 Seeded 2009

Code	Cultivar	2010 (kg/ha)			Total
		Cut 1	Cut 2	Cut 3	
1325	MAGNUM_IV	6096	2784	3207	12072
1409	AFFINITY+Z	6311	2858	2961	12144
1432	OAC_SUPERIOR	6059	3130	3385	12564
1481	APPROVED	6053	2994	3157	12204
1482	WINTERGOLD	5994	3001	3394	12387
1498	134	6233	3015	3021	12282
1521	MAGNUM_3801	6259	2964	3213	12401
1525	FORECAST_1000	6302	2930	3316	12550
1537	VALIANT	6090	2930	2943	11983
1598	54H11	5570	2640	3074	11282
1599	WL319HQ	5693	2643	3057	11397
1600	SATELLITE	5859	2690	2939	11487
1603	WL357HQ	5761	2818	3089	11659
1614	94023	5649	2966	3257	11876
1617	WL348AP	6061	2864	3292	12216
1618	WL345LH	6208	2820	3098	12125
1619	EVERMORE	6236	2882	2999	12116
1624	LEXUS	5070	2393	3118	10582
1630	FSG400LH	6135	2942	3273	12340
1636	RADAR	5629	2782	3250	11682
1637	53H92	5849	2470	2867	11189
1646	WL343HQ	5721	2779	2914	11394
1649	STELLAR_FG	5782	3024	3020	11837
1652	55V48	5549	2842	3063	11453
1659	4A421	5808	2768	3093	11675
1664	SUPER_NOVA	6156	2910	3109	12174
1667	54Q32	5688	2745	2882	11311
1675	CW_02013	5719	2704	3192	11620
1676	QS44031	5600	2870	3023	11488
1677	QS4010	6098	2807	3032	11938
1678	SURVIVOR	6290	2868	3197	12368
1680	RESPONSE_WT	5632	2706	3012	11344
900	Mean	5908	2828	3106	11841
901	CV	5.7	7.3	5.8	4.6
902	LSD	541.7	332.1	290.4	879.5

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

Alfalfa Performance three-cut system
 Seeded 2009 (Kemptonville site) EXP 2878
 Harvested 2010

Variety	Cut 1	Cut 2	Cut 3	Total
Magnum_IV	3165.6	579.1	2010.7	6755.5
Affinity+Z	3754.5	1447.7	1685.4	6887.6
OAC_Superior	4012.9	1724.0	1608.4	7345.3
Approved	3463.9	1501.7	1707.3	6672.9
Wintergold	4199.1	1491.7	1626.5	7317.4
134	3702.2	1102.8	2229.2	7034.2
Magnum_3801	3448.4	1295.5	1477.7	6221.5
Forecast_1000	3511.0	1476.9	2452.6	7440.4
Valiant	3422.6	1068.4	2075.3	6566.2
54H11	4135.9	1714.7	1984.9	7835.5
WL319HQ	3932.2	1391.4	1913.6	7237.2
Satellite	3329.3	1103.3	1641.3	6073.8
WL357HQ	3272.7	1429.5	1857.8	6560.0
94023	3543.5	1398.8	1280.5	6222.7
WL348AP	3681.3	1911.7	1677.4	7270.2
WL345LH	3849.9	1573.8	1773.9	7197.6
Evermore	4116.6	1499.1	1580.6	7196.3
Lexus	4169.3	1323.8	1625.3	7118.3
FSG400LH	3874.0	1323.1	1529.1	6726.2
Radar	3657.9	1602.2	2186.9	7446.9
53H92	3817.0	1621.6	1908.2	7346.8
WL343HQ	3792.2	1948.8	1679.6	7420.6
Stellar_FG	3378.5	1498.1	1881.5	6758.1
55V48	3595.8	1403.6	1723.5	6722.8
4A421	3260.7	1302.7	1719.0	6282.4
Super_Nova	3609.7	1611.5	1774.7	6995.8
54Q32	3029.1	994.3	2283.5	6306.8
CW_02013	3589.0	1447.0	1818.3	6854.2
QS44031	3032.6	921.6	1888.6	5842.8
QS4010	3538.1	965.2	1755.9	6259.2
Survivor	2830.2	1373.1	1715.4	5918.7
Response_WT	3211.8	1249.6	2399.8	6861.2
Mean	3591.5	1415.5	1827.3	6834.2
CV	7.9	14.1	9.7	4.9
LSD	403.1	281.2	251.0	472.6
RCBD arrangement, 4 blocks {1234}				

Alfalfa Performance four-cut system
 Seeded 2009 (Winchester site) EXP 2882
 Harvested 2010 (only 3 cuts do to equipment & weather)

Variety	Cut 1	Cut 2	Cut 3	Total
Magnum_IV	4792.9	5209.8	5326.8	15329.5
Affinity+Z	4631.7	5544.0	5824.0	15999.7
OAC_Superior	4488.1	5112.0	5602.7	15202.8
Approved	5123.7	5112.0	5368.0	15603.7
Wintergold	4695.7	5574.5	5344.5	15614.8
134	4516.4	4970.2	5693.3	15179.9
Magnum_3801	4458.7	4180.4	5410.7	14049.7
Forecast_1000	5006.3	4219.6	5291.7	14517.6
Valiant	4630.3	4566.5	5786.7	14983.5
54H11	4440.1	4789.1	6268.8	15498.0
WL319HQ	4498.1	5424.0	5494.8	15416.9
Satellite	4812.8	4335.3	5755.2	14903.3
WL357HQ	4251.6	5703.3	5557.7	15512.6
94023	4885.5	4608.0	5727.6	15221.1
WL348AP	4622.2	5391.8	5207.4	15221.4
WL345LH	4629.9	5232.0	6202.7	16064.5
Evermore	4819.4	4671.3	5945.6	15436.3
QS05009	5192.0	4483.2	5997.3	15672.6
FSG400LH	5276.8	3078.5	5300.3	13655.6
Radar	4689.6	5721.6	5568.8	15980.0
53H92	4804.4	5832.0	5778.7	16415.0
WL343HQ	4886.8	5845.1	5825.4	16557.3
Stellar_FG	4540.4	5016.0	6453.3	16009.8
55V48	4493.4	4876.8	6566.4	15936.6
4A421	4839.3	3960.0	6068.4	14867.7
Super_Nova	4324.2	4478.6	5332.8	14135.7
54Q32	4744.2	5402.2	5506.7	15653.0
CW02013	5053.8	5016.0	5837.3	15907.1
QS44031	4831.7	4836.2	6909.3	16577.2
QS4010	4890.8	4455.3	5580.1	14926.2
Survivor	4218.2	5217.6	4957.3	14393.2
Response_WT	4838.3	3744.0	4478.2	13060.5
Mean	4716.5	4894.0	5686.5	15297.0
CV	10.8	16.9	11.8	7.4
LSD	834.6	1346.9	1093.1	1836.5
RCBD arrangement, 4 Blocks{1234}				

ONTARIO
 New Liskeard
 Red Clover
 Expt. 9005
 Seeded 2009

Code	Cultivar	2010 (kg/ha)		
		Cut 1	Cut 2	Tot10
4080	TEMPUS	8082	4856	12938
4087	WILDCAT	8659	5201	13860
900	Mean	8371	5028	13399
901	CV	7.8	6.5	6.5
905	MCV	13.0	10.8	10.8
902	LSD	1090.1	541.8	1452.0
906	LSR	188.7	157.2	157.4
907	Pr>F(Trts)	0.3016	0.2315	0.2319
908	R_square	60.7	65.8	64.5

RCBD arrangement, 4 blocks {1234}

Kemptville
Red Clover
Seeded 2009
Harvested 2010

Variety	Cut 1	Cut 2	Cut 3	Total
Tempus	5707.1	2203.0	3020.5	10930.5
Wildcat	7645.4	3216.2	4740.1	15563.9
Mean	6676.26	2709.59	3880.28	13247.22
CV	7.37	13.11	8.02	8.44
LSD	1106.81	799.11	699.86	2516.13

Ontario
Thunder Bay
Red Clover
Seeded 2009
Harvested 2010

Variety	Cut 1	Cut 2	Total
Tempus	2037	1225	3262
Wildcat	2953	1439	4392
MEAN	2495	1332	3827
C.V. (%)	10	21	12
PR>F	0.0150	0.3619	0.0403
LSD (0.05)	578	NS	NS

ONTARIO
 New Liskeard
 White Clover & Orchard Grass
 Expt. 9004
 Seeded 2009

Code	Cultivar	2010 (kg/ha)		
		Cut 1	Cut 2	Tot10
8012	OSCEOLA	7616	1863	9282
8014	ALICE	6072	2185	8473
8031	COMPANION	7447	1932	9359
900	Mean	7045	1993	9038
901	CV	14.1	4.0	11.6
905	MCV	21.2	6.1	17.5
902	LSD	1493.9	120.7	1583.3
906	LSR	96.8	37.5	178.9
907	Pr>F(Trts)	0.2785	0.0612	0.5797
908	R_square	72.2	97.3	67.5

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

Kemptville
White Clover
seeded 2009
Harvested 2010

Variety	Cut 1	Cut 2	Cut 3	Total
Alice	4860.4	1001.8	1953.4	7815.6
Osceola	5257.0	1288.4	1967.6	8512.9
Companion	4836.8	1103.6	1626.7	7567.1
Mean	4984.73	1131.25	1849.19	7965.20
CV	8.44	12.18	11.47	5.77
LSD	727.92	238.31	367.06	795.81

ONTARIO
 Elora
 Bromegrass trial
 Expt. 2876
 Seeded 2009

Code	Cultivar	2010 (kg/ha)			
		Cut 1	Cut 2	Cut 3	Tot10
2039	BRAVO	4126	3759	857	8742
2054	PADDOCK	4233	3015	1295	8543
2057	FLEET	5231	3141	1340	9712
2060	PEAK	4276	3245	1020	8541
2067	BR06	4371	4014	812	9198
900	Mean	4447	3435	1065	8947
901	CV	8.2	5.0	13.5	4.5
905	MCV	10.3	6.3	17.0	5.6
902	LSD	457.5	217.8	181.5	501.9
906	LSR	41.4	21.8	34.4	42.8
907	Pr>F(Trts)	0.0068	0.0000	0.0005	0.0055
908	R_square	70.9	90.6	86.3	79.0

RCBD arrangement, 4 blocks {1234}

ONTARIO
 New Liskeard
 Orchard Grass Registration
 Expt. 6002
 Seeded 2006

Code	Cultivar	2010 (kg/ha)					
		Cut 1	Tot10	Tot09	Tot08	Tot07	4yrTot
3078	AC_SPLENDOR	2720	2720	5586	9658	7688	25652
3079	OKAY	2745	2745	6082	9789	8133	26749
3086	HAYMATE	2764	2764	5474	9215	8888	26342
3096	OG9401	2696	2696	6049	10309	8180	27234
3111	OG0001	2727	2727	5869	8863	9088	26547
3110	OG01	2802	2802	5981	9143	8814	26740
900	Mean	2742	2742	5840	9496	8465	26544
901	CV	7.2	7.2	6.5	7.3	7.8	4.0
905	MCV	9.0	9.0	8.1	9.0	9.7	4.9
902	LSD	246.0	246.0	473.9	855.8	819.5	1311.2
906	LSR	231.8	231.8	77.9	59.2	58.5	82.9
907	Pr>F(Trts)	0.9780	0.9780	0.1815	0.0954	0.0607	0.4536
908	R_square	51.1	51.1	56.3	58.8	58.4	55.5

RCBD arrangement, 4 blocks {1234}

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

Code	Cultivar	2010 (kg/ha)			Tot10	Tot09	2yrTot
		Cut 1	Cut 2	Cut 3			
211		4068	1394	964	6426	7457	13883
221		4001	1895	1325	7221	8273	15494
231		3688	1578	1048	6313	6745	13059
241		2685	1657	916	5259	6025	11284
251		2214	1533	771	4518	5305	9823
261		2342	1403	863	4608	6031	10639
3079	OKAY	3349	1266	860	5476	7477	12953
3096	DIVIDEND_VL	2263	1531	901	4695	6376	11070
3110	OG01	2670	1438	907	5015	7119	12134
3112	QS23	3174	1644	1033	5851	6573	12425
3113	PROFIT	3092	1429	921	5442	7642	13083
900	Mean	3050	1524	955	5529	6820	12350
901	CV	7.8	15.0	13.1	7.6	8.1	6.6
905	MCV	9.4	18.0	15.7	9.2	9.7	7.9
902	LSD	286.8	274.4	150.2	506.0	660.7	975.5
906	LSR	15.5	43.6	27.1	18.7	22.3	17.2
907	Pr>F(Trts)	0.0000	0.0466	0.0002	0.0000	0.0000	0.0000
908	R_square	92.7	76.2	74.0	90.0	81.3	88.8

RCBD arrangement, 4 blocks {1234}

ONTARIO
 New Liskeard
 Orchard Grass
 Expt. 7004
 Seeded 2007

Code	Cultivar	2010 (kg/ha)					
		Cut 1	Cut 2	Tot10	Tot09	Tot08	3yrTot
3003	KAY	4801	1371	6171	7656	11852	25679
3079	OKAY	4196	1324	5520	7831	12892	26242
3086	HAYMATE	4226	1660	5886	7400	12799	26085
3112	QS23	3796	1781	5577	7247	12742	25566
900	Mean	4255	1534	5789	7533	12571	25893
901	CV	5.2	14.3	6.1	8.0	7.7	3.9
905	MCV	6.7	18.5	7.9	10.4	10.0	5.1
902	LSD	284.5	283.8	459.8	784.7	1259.6	1312.4
906	LSR	28.3	62.1	70.6	134.4	121.2	194.0
907	Pr>F(Trts)	0.0011	0.0431	0.0944	0.5571	0.4420	0.7551
908	R_square	84.1	69.4	67.2	24.0	66.0	65.1

RCBD arrangement, 4 blocks {1234}

Ontario
Thunder Bay
Orchardgrass
Seeded 2007

Variety	Cut 1	Cut 2	Total
KAY	2842	765	3607
OKAY	3040	1578	4618
HAYMATE	2282	1197	3478
QS_23	2651	1144	3794
Mean	2704	1171	3874
C.V. (%)	15	57	13
PR>F	0.1090	0.4334	0.0434
LSD(0.05)	630	NS	810

ONTARIO
 Elora
 Late Orchardgrass
 Expt. 2866
 Seeded 2008

Code	Cultivar	2010 (kg/ha)			Tot10	Tot09	2yrTot
		Cut 1	Cut 2	Cut 3			
3079	OKAY	3590	1876	1413	6879	8898	15777
3113	PROFIT	3143	2099	1431	6673	10400	17073
3114	OG06	3188	2130	1209	6527	10498	17025
3115	ORG-08-02	2254	1943	1042	5239	8994	14233
3117	HAYMASTER	3531	1860	1339	6730	9688	16418
900	Mean	3141	1982	1287	6409	9696	16105
901	CV	7.5	6.6	12.9	6.1	11.3	8.2
905	MCV	9.5	8.4	16.2	7.7	14.3	10.3
902	LSD	297.5	165.6	209.1	492.2	1385.4	1654.3
906	LSR	22.3	61.2	53.7	30.0	86.6	58.3
907	Pr>F(Trts)	0.0000	0.0357	0.0312	0.0005	0.1791	0.0530
908	R_square	88.7	65.4	71.4	83.3	69.7	66.9

RCBD arrangement, 4 blocks {1234}

ONTARIO
 New Liskeard
 Orchard Grass
 Expt. 8003
 Seeded 2008

Code	Cultivar	2010 (kg/ha)			Tot09	2yrTot
		Cut 1	Cut 2	Tot10		
3079	OKAY	4956	1852	6808	10136	16945
3086	HAYMATE	4646	1845	6490	8522	15013
3114	OG06	4612	2002	6614	9637	16251
3115	ORG-08-02	4505	1040	5545	9808	15353
3117	HAYMASTER	4509	2041	6550	8682	15233
900	Mean	4646	1756	6402	9357	15759
901	CV	8.1	8.7	6.5	6.1	5.1
905	MCV	10.2	11.0	8.2	7.7	6.4
902	LSD	472.6	192.9	525.0	722.0	1008.2
906	LSR	104.8	19.3	41.6	44.7	52.2
907	Pr>F(Trts)	0.4619	0.0000	0.0090	0.0062	0.0248
908	R_square	41.1	93.4	72.9	73.2	69.6

RCBD arrangement, 4 blocks {1234}

Kemptville
Orchardgrass
Seeded 2008
Harvested 2010

	Cut 1	Cut 2	Total
Variety			
ORG-08-02	1095.6	1710.5	2806.1
Profit	2236.0	1838.5	4074.5
Okay	1331.9	1681.5	3013.3
OG06	1393.8	1552.3	2946.1
Mean	1514.3	1695.7	3210.0
CV	11.4	11.4	8.6
LSD	345.5	387.0	552.0

ONTARIO
 Elora
 Orchardgrass - Late
 Expt. 2875
 Seeded 2009

Code	Cultivar	2010 (kg/ha)			
		Cut 1	Cut 2	Cut 3	Tot10
3003	KAY	3996	2757	1462	8214
3079	OKAY	4052	3084	1556	8692
3096	DIVIDEND_VL	3232	3159	1475	7867
3114	OG06	4076	3372	1649	9096
900	Mean	3839	3093	1535	8467
901	CV	3.6	5.9	10.5	3.1
905	MCV	5.7	9.3	16.7	4.9
902	LSD	217.0	288.8	256.9	411.2
906	LSR	25.7	47.0	137.5	33.4
907	Pr>F(Trts)	0.0011	0.0327	0.5164	0.0057
908	R_square	95.1	80.5	67.3	90.1

RCBD arrangement, 3 blocks {234}

ONTARIO
 New Liskeard
 Tall Fescue
 Expt. 7003
 Seeded 2007

Code	Cultivar	2010 (kg/ha)			Tot09	Tot08	3yrTot
		Cut 1	Cut 2	Tot10			
5028	CARNIVAL	4075	3713	7788	9333	14797	31918
5037	BARELITE	3348	2593	5941	7630	13386	26957
5523	COURTENAY	4454	3063	7517	9151	15151	31820
5526	KOKANEE	4280	3193	7473	8921	14236	30631
900	Mean	4039	3140	7180	8759	14393	30331
901	CV	5.2	7.4	2.7	6.1	7.3	2.9
905	MCV	6.7	9.6	3.5	7.9	9.4	3.8
902	LSD	271.9	300.4	249.7	691.8	1356.7	1139.6
906	LSR	24.6	26.8	13.5	40.6	76.8	23.0
907	Pr>F(Trts)	0.0003	0.0007	0.0000	0.0060	0.1617	0.0001
908	R_square	89.0	85.3	96.4	75.5	59.2	91.0

RCBD arrangement, 4 blocks {1234}

ONTARIO
 Elora
 Tall Fescue
 Expt. 2867
 Seeded 2008

Code	Cultivar	2010 (kg/ha)					
		Cut 1	Cut 2	Cut 3	Tot10	Tot09	2yrTot
5040	BARIANNE	4728	2525	1528	8780	9571	18351
5041	KORA	5258	2946	2310	10514	11472	21987
5042	FTF-08-01	4436	2927	2011	9375	11105	20479
5043	TF0202	4903	3129	1858	9891	10580	20471
5523	COURTENAY	4326	2698	2024	9048	11474	20522
5526	KOKANEE	4474	3231	2296	10001	12064	22065
900	Mean	4688	2909	2005	9601	11044	20646
901	CV	6.9	7.9	11.6	7.1	5.2	5.6
905	MCV	8.6	9.8	14.4	8.9	6.4	7.0
902	LSD	401.7	285.1	288.7	850.9	707.7	1444.1
906	LSR	43.1	40.4	36.9	49.1	28.4	38.9
907	Pr>F(Trts)	0.0091	0.0057	0.0025	0.0249	0.0004	0.0050
908	R_square	71.8	66.5	72.1	59.3	83.1	70.5

RCBD arrangement, 4 blocks {1234}

ONTARIO
 New Liskeard
 Tall Fescue
 Expt. 8002
 Seeded 2008

Code	Cultivar	2010 (kg/ha)		Tot10	Tot09	2yrTot
		Cut 1	Cut 2			
5040	BARIANNE	3875	2706	6580	10856	17436
5041	KORA	4052	3072	7124	11814	18938
5042	FTF-08-01	5133	3361	8494	12816	21310
5043	TF0202	4856	3377	8233	10748	18981
5523	COURTENAY	5392	3316	8708	11148	19856
5526	KOKANEE	4965	3324	8289	10631	18919
900	Mean	4712	3193	7905	11335	19240
901	CV	3.8	10.6	4.5	10.9	7.6
905	MCV	4.7	13.1	5.6	13.5	9.4
902	LSD	219.4	419.0	443.8	1527.2	1807.6
906	LSR	14.5	62.4	20.9	69.9	46.7
907	Pr>F(Trts)	0.0000	0.0837	0.0000	0.1611	0.0414
908	R_square	94.9	50.6	88.7	47.8	56.8

RCBD arrangement, 4 blocks {1234}

Ontario
Thunder Bay
Tall Fescue
Seeded 2008

VARIETY	CUT 1	CUT 2	TOTAL
KOKANEE	4684	3259	7943
COURTENAY	4886	2571	7457
PST-5CAN	4392	2121	6513
MEAN	4654	2650	7304
C.V. (%)	7	12	5
PR>F	0.1796	0.0079	0.0050
LSD (0.05)	NS	571	658

Kemptville
Tall Fescue
Seeded 2008
Harvested 2010

Variety	Cut 1	Cut 2	Total
Kokanee	1068.6	2308.0	3376.5
Barianne	961.4	1628.0	2589.4
PST-5CAN	731.9	1206.4	1938.3
FTF-08-01	976.3	2262.9	3239.3
Courtenay	1239.7	1918.3	3158.0
Kora	1380.6	1665.9	3046.5
Mean	1059.7	1831.6	2891.3
CV	14.4	17.6	12.5
LSD	278.3	585.2	658.4

ONTARIO
 Elora
 Perennial Ryegrass
 Expt. 2870
 Seeded 2008

Code	Cultivar	2010 (kg/ha)			Tot10
		Cut 1	Cut 2	Cut 3	
8514	TIVOLI	3238	1974	568	5779
8515	GARIBALDI	3894	1715	409	6019
8518	BARNHEM	2031	1826	765	4623
8519	REMINGTON	4327	2087	607	7020
8520	SPIDOLA	3294	1817	558	5669
8521	PSGG9-04	4198	1483	387	6068
8522	CITADEL	4017	2116	494	6627
8523	CONDESA	2569	2152	481	5202
8525	BASTION	3732	1543	420	5696
8533	KENTAUR	3729	2155	622	6506
8535	BARUTTI	4180	1162	417	5758
900	Mean	3564	1821	521	5906
901	CV	14.1	12.1	25.7	10.6
905	MCV	19.8	17.0	36.1	14.9
902	LSD	707.1	310.0	188.3	882.0
906	LSR	30.8	31.2	49.8	36.8
907	Pr>F(Trts)	0.0003	0.0002	0.0578	0.0097
908	R_square	76.3	78.8	58.9	63.5

RCBD arrangement, 3 blocks {234}

ONTARIO
 Elora
 Early Timothy
 Expt. 2868
 Seeded 2008

Code	Cultivar	2010 (kg/ha)			Tot09	2yrTot
		Cut 1	Cut 2	Tot10		
6030	TORO	5258	1838	7096	9311	16406
6050	RICHMOND	5198	1731	6929	9121	16051
6171	TM9701	5336	1473	6809	9544	16353
900	Mean	5264	1681	6945	9325	16270
901	CV	4.5	5.2	4.2	3.9	3.6
905	MCV	6.2	7.1	5.8	5.3	4.9
902	LSD	324.8	119.1	400.5	497.8	795.1
906	LSR	235.8	32.7	139.8	117.7	223.5
907	Pr>F(Trts)	0.7258	0.0031	0.4321	0.3250	0.6664
908	R_square	72.9	90.0	77.9	36.8	58.1

RCBD arrangement, 4 blocks {1234}

ONTARIO
 New Liskeard
 Late Timothy
 Expt. 7001
 Seeded 2007

Code	Cultivar	2010 (kg/ha)		Tot09	Tot08	3yrTot
		Cut 1	Tot10			
6002	CLIMAX	5831	5831	9093	11264	26188
6026	ITASCA	5558	5558	8164	13498	27219
6166	BARFLEO	5770	5770	9110	11868	26747
6167	BOR 2005	5664	5664	8126	13137	26927
6168	BARPENTA	5988	5988	8291	10064	24342
6169	KARA	5721	5721	7916	13067	26703
900	Mean	5755	5755	8450	12150	26355
901	CV	9.9	9.9	5.0	8.2	4.3
905	MCV	12.2	12.2	6.2	10.2	5.3
902	LSD	704.8	704.8	527.7	1240.9	1390.9
906	LSR	164.0	164.0	44.2	36.1	48.3
907	Pr>F(Trts)	0.9225	0.9225	0.0033	0.0015	0.0284
908	R_square	20.3	20.3	69.4	71.4	57.0

RCBD arrangement, 4 blocks {1234}

ONTARIO
 Elora
 Late Timothy
 Expt. 2869
 Seeded 2008

Code	Cultivar	2010 (kg/ha)			Tot09	2yrTot
		Cut 1	Cut 2	Tot10		
6002	CLIMAX	5128	2284	7412	10194	17606
6026	ITASCA	5925	2674	8599	11222	19821
6066	NORMAX	5479	3079	8558	10992	19550
6081	MARIPOSA	6056	2351	8407	11405	19812
6086	ALEXANDER	5032	2803	7835	10048	17883
6095	ARGUS	5454	2548	8002	9663	17665
6136	EXPRESS	5937	3015	8952	11160	20112
6138	AURORA	5702	2582	8283	10281	18564
6161	TREASURE	5699	2580	8279	11687	19966
6170	CREST	5462	2994	8456	11193	19649
900	Mean	5587	2691	8278	10785	19063
901	CV	7.1	10.5	7.0	5.5	5.8
905	MCV	8.5	12.6	8.4	6.7	7.0
902	LSD	477.3	339.6	698.9	717.9	1338.0
906	LSR	46.6	42.7	45.4	35.5	53.4
907	Pr>F(Trts)	0.0140	0.0032	0.0498	0.0004	0.0070
908	R_square	55.9	69.5	57.5	66.2	58.3

RCBD arrangement, 4 blocks {1234}

ONTARIO
 New Liskeard
 Timothy
 Expt. 8006
 Seeded 2008

Code	Cultivar	2010 (kg/ha)			
		Cut 1	Tot10	Tot09	2yrTot
6002	CLIMAX	5087	5087	9857	14943
6026	ITASCA	5313	5313	10844	16157
6066	NORMAX	5148	5148	11373	16521
6081	MARIPOSA	5413	5413	10641	16054
6086	ALEXANDER	4981	4981	10250	15231
6095	ARGUS	5439	5439	11176	16615
6136	EXPRESS	4838	4838	10211	15050
6138	AURORA	4937	4937	10207	15144
6161	TREASURE	5323	5323	10666	15989
6170	CREST	4762	4762	10697	15459
900	Mean	5124	5124	10592	15716
901	CV	5.9	5.9	6.3	5.1
905	MCV	7.1	7.1	7.6	6.2
902	LSD	361.6	361.6	803.8	966.8
906	LSR	53.4	53.4	53.0	57.8
907	Pr>F(Trts)	0.0261	0.0261	0.0822	0.0366
908	R_square	70.4	70.4	64.1	71.8

RCBD arrangement, 4 blocks {1234}

ONTARIO
 Elora
 Late Timothy Trial
 Expt. 2873
 Seeded 2009

Code	Cultivar	2010 (kg/ha)		
		Cut 1	Cut 2	Tot10
6002	CLIMAX	5300	3037	8337
6026	ITASCA	5901	3488	9389
6066	NORMAX	5963	3670	9633
6086	ALEXANDER	5800	3350	9150
6136	EXPRESS	5734	3357	9091
6138	AURORA	6223	3487	9710
6161	TREASURE	6406	1826	8233
6172	ARLAKA	5393	1929	7322
900	Mean	5840	3018	8858
901	CV	6.1	7.3	4.3
905	MCV	8.8	10.5	6.2
902	LSD	511.1	316.2	552.3
906	LSR	46.2	17.2	23.1
907	Pr>F(Trts)	0.0257	0.0000	0.0000
908	R_square	77.2	94.3	89.3

RCBD arrangement, 3 blocks {234}

ONTARIO
 New Liskeard
 Late Timothy
 Expt. 9003
 Seeded 2009

Code	Cultivar	2010 (kg/ha)		
		Cut 1	Cut 2	Tot10
6002	CLIMAX	7770	1656	9426
6026	ITASCA	7992	1939	9931
6066	NORMAX	8187	2325	10512
6086	ALEXANDER	7614	2331	9945
6136	EXPRESS	7805	2410	10215
6138	AURORA	7927	2396	10323
6161	TREASURE	8074	2453	10527
6172	ARLAKA	7828	1870	9698
900	Mean	7900	2173	10072
901	CV	7.6	11.5	7.3
905	MCV	9.2	14.0	8.9
902	LSD	726.1	303.2	899.3
906	LSR	126.8	38.1	81.7
907	Pr>F(Trts)	0.9055	0.0007	0.3834
908	R_square	17.0	72.6	37.2

RCBD arrangement, 4 blocks {1234}

Kemptville
Timothy Registration A 2009
Harvested 2010

Variety	Cut 1	Cut 2	Total
Alexander	5674.2	1806.0	7480.1
Arlaka	4974.9	2176.4	7151.2
Aurora	5561.9	2082.6	7644.5
Climax	5609.9	1889.2	7499.2
Express	5644.4	2680.3	8324.7
Itasca	5355.2	1995.9	7351.1
Normax	4639.4	1623.1	6262.6
Treasure	6159.9	1440.7	7600.6
Mean	5452.45	1961.76	7414.22
CV	9.92	10.59	8.01
LSD	795.6	305.42	873.94

ONTARIO
 New Liskeard
 Meadow Fescue
 Expt. 7002
 Seeded 2007

Code	Cultivar	2010 (kg/ha)				
		Cut 1	Tot10	Tot09	Tot08	3yrTot
5033	MIMER	3414	3414	6423	11087	20925
5034	EPIC	3153	3153	6619	10336	20109
5038	PARDEL	3439	3439	7029	10589	21058
900	Mean	3336	3336	6690	10671	20697
901	CV	7.0	7.0	2.2	10.9	5.2
905	MCV	9.6	9.6	3.0	14.9	7.1
902	LSD	321.8	321.8	201.8	1592.2	1474.7
906	LSR	112.6	112.6	33.3	212.1	155.4
907	Pr>F(Trts)	0.2400	0.2400	0.0036	0.6696	0.4515
908	R_square	44.7	44.7	96.0	44.5	63.7

RCBD arrangement, 4 blocks {1234}

Ontario
 Thunder Bay
 Meadow Fescue
 Seeded 2007

Variety	Cut 1	Cut 2	Total
MIMER	4068	911	4979
EPIC	4144	1142	5286
PARDEL	4000	1255	5255
Mean	4071	1103	5173
C.V. (%)	11	20	7
PR>F	0.8998	0.1607	0.4786
LSD (0.05)	755	NS	NS

Heading Notes Elora,2010
 Stage R2(spikelets emerged but not peduncle)

Bromegrass	Code	Heading Date
Peak	2060	May 28
Fleet	2057	May 20
Bravo	2039	May 28
Paddock	2054	May 20
BR06	2067	May 28
Orchardgrass		
OG06	3114	June 3
ORG-08-02	3115	June 7
Haymaster	3117	May 25
OKAY	3079	May 24
Profit	3113	May 25
OG0001	3111	May 24
QS23	3112	May 25
Haymate	3086	May 25
Dividend VL	3096	June 6
OG01	3110	May 28
Meadow Fescue		
Mimer	5033	May 25
Epic	5034	May 24
Pradel	5038	May 25
Tall Fescue		
Courtenay	5523	June 3
Kora	5041	May 26
FTF-08-01	5042	June 4
Kokanee	5526	June 7
Barianne	5040	June 3
TF0202	5043	May 28
Late Timothy		
Mariposa	6081	May 28
Alexander	6086	June 7
Crest	6170	June 4
Climax	6002	June 8
Treasure	6161	May 28
Express	6136	June 7
Normax	6066	June 7
Itasca	6026	June 8
Argus	6095	June 7
Aurora	6138	June 1
Arlaka	6172	June 7
Early Timothy		
Richmond	6050	May 28
Toro	6030	June 1
TM9701	6171	May 30
Perennial Ryegrass		
Remington	8519	June 8
Barutti	8535	May 28

Heading Notes Cont'd

Perennial Ryegrass		
PSGG9-04	8521	May 28
Tivoli	8514	June 22
Bastion	8525	June 1
Barnhem	8518	June 22
Garibaldi	8515	June 8
Citadel	8522	June 8
Spidola	8520	June 8
Condesa	8523	June 22
Kentaur	8533	June 7

Elora Alfalfa Performance Trial, Seeded 2009, 2010 harvest.
Expt. 2877 & 2881

Maturity (Mean stage by weight)

Code	Variety	Cutting Management			
		<u>Three harvest</u>		<u>Four harvest</u>	
		Cut1	Cut2	Cut1	Cut2
1325	MAGNUM_IV	2.9	4.1	2.0	2.3
1409	AFFINITY+Z	3.0	4.5	1.7	1.9
1432	OAC_SUPERIOR	2.9	4.3	1.9	2.3
1481	APPROVED	2.6	3.9	2.0	3.0
1482	WINTERGOLD	2.8	4.1	1.9	2.8
1498	134	3.1	3.8	2.1	2.7
1521	MAGNUM_3801	3.4	4.5	1.8	2.4
1525	FORECAST_100	3.6	4.3	1.7	2.5
1537	VALIANT	2.9	4.5	1.5	2.7
1598	54H11	3.5	4.2	2.4	2.8
1599	WL319HQ	2.6	4.9	1.6	2.2
1600	SATELLITE	3.2	4.3	1.7	1.9
1603	WL357HQ	3.3	5.2	2.4	2.5
1614	94023	3.4	4.1	2.6	1.9
1617	WL348AP	2.9	4.0	2.5	2.6
1618	WL345LH	2.7	4.4	1.3	2.0
1619	EVERMORE	2.9	4.0	1.0	2.5
1624	LEXUS	3.6	5.3	1.8	2.4
1630	FSG400LH	3.0	4.0	1.8	2.0
1636	RADAR	3.6	4.8	2.6	3.3
1637	53H92	3.0	4.2	2.3	2.7
1646	WL343HQ	3.1	4.5	2.2	2.8
1649	STELLAR_FG	2.9	4.6	2.2	2.9
1652	55V48	3.5	5.3	2.3	3.1
1659	4A421	3.1	4.9	2.0	2.5
1664	SUPER_NOVA	2.7	3.4	1.8	2.2
1667	54Q32	3.0	4.5	2.1	2.9
1675	CW_02013	3.1	5.5	2.5	2.7
1676	QS44031	2.9	5.1	2.0	3.0
1677	QS4010	2.8	4.6	1.5	2.2
1678	SURVIVOR	2.8	4.5	2.3	1.9
1680	RESPONSE_WT	3.0	4.2	1.8	2.3
	Mean	3.0	4.5	2.0	2.5
	se	0.30	0.24	0.27	0.34

Maturity: The greater the MSW value, the later the maturity.

Elora Alfalfa Performance Trial, Seeded 2009, 2010 harvest.
 Expt. 2877 & 2881

Acid Detergent Fraction (ADF)

Code	Variety	Cutting Management			
		<u>Three harvest</u>		<u>Four harvest</u>	
		Cut1	Cut2	Cut1	Cut2
1325	MAGNUM_IV	29.6	30.0	29.8	27.1
1409	AFFINITY+Z	28.6	28.3	29.5	27.1
1432	OAC_SUPERIOR	29.1	30.6	28.3	27.6
1481	APPROVED	29.4	29.3	29.3	27.9
1482	WINTERGOLD	29.2	29.7	28.3	26.3
1498	134	29.2	31.3	28.9	26.7
1521	MAGNUM_3801	30.8	32.1	29.7	28.0
1525	FORECAST_100	27.9	30.6	29.8	28.8
1537	VALIANT	29.1	30.2	28.4	27.7
1598	54H11	29.9	28.6	28.7	27.1
1599	WL319HQ	28.9	30.4	28.4	26.3
1600	SATELLITE	31.4	31.9	29.4	25.9
1603	WL357HQ	29.1	31.0	29.4	28.7
1614	94023	29.1	30.8	28.6	26.6
1617	WL348AP	31.3	31.3	29.7	27.4
1618	WL345LH	29.3	30.6	28.8	27.3
1619	EVERMORE	29.3	29.1	29.4	27.5
1624	LEXUS	28.5	32.2	29.2	28.1
1630	FSG400LH	27.6	29.8	28.9	28.1
1636	RADAR	27.6	29.7	29.6	27.0
1637	53H92	28.5	29.2	28.5	25.9
1646	WL343HQ	28.0	29.8	27.9	28.2
1649	STELLAR_FG	30.9	30.5	31.6	28.0
1652	55V48	29.5	30.2	29.5	28.4
1659	4A421	29.5	30.9	28.6	28.3
1664	SUPER_NOVA	27.9	29.7	29.1	27.7
1667	54Q32	29.0	28.8	29.1	26.8
1675	CW_02013	29.6	29.8	27.4	27.2
1676	QS44031	28.6	30.3	28.4	27.5
1677	QS4010	28.3	28.8	28.0	26.6
1678	SURVIVOR	29.2	30.3	28.1	27.7
1680	RESPONSE_WT	29.6	29.0	28.9	27.9
	Mean	29.2	30.1	29.0	27.4
	se	0.80	1.06	0.58	0.58

ADF: The lower the ADF value, the greater the digestibility.

Elora Alfalfa Performance Trial, Seeded 2009, 2010 harvest.
 Expt. 2877 & 2881

Neutral Detergent Fraction (NDF)

Code	Variety	Cutting Management			
		<u>Three harvest</u>		<u>Four harvest</u>	
		Cut1	Cut2	Cut1	Cut2
1325	MAGNUM_IV	42.4	42.7	41.5	41.1
1409	AFFINITY+Z	40.0	39.4	40.9	39.0
1432	OAC_SUPERIOR	40.5	42.7	39.4	39.3
1481	APPROVED	41.6	41.8	38.5	40.0
1482	WINTERGOLD	42.6	41.1	37.7	38.0
1498	134	41.4	44.3	39.4	39.2
1521	MAGNUM_3801	42.0	44.9	40.9	41.5
1525	FORECAST_100	40.6	42.3	40.1	40.2
1537	VALIANT	39.8	41.8	38.8	39.3
1598	54H11	43.1	40.5	38.8	38.7
1599	WL319HQ	41.9	41.8	38.8	38.5
1600	SATELLITE	42.5	44.6	39.5	38.9
1603	WL357HQ	41.2	44.2	40.2	40.4
1614	94023	41.4	43.8	40.0	39.7
1617	WL348AP	41.9	43.5	40.6	39.2
1618	WL345LH	40.7	42.7	38.4	38.6
1619	EVERMORE	41.0	42.4	38.9	39.1
1624	LEXUS	41.9	43.7	41.5	40.1
1630	FSG400LH	40.7	39.8	40.7	40.3
1636	RADAR	38.8	40.3	40.2	39.2
1637	53H92	40.4	39.7	38.3	38.1
1646	WL343HQ	41.4	41.9	38.5	40.1
1649	STELLAR_FG	42.3	40.3	41.9	39.4
1652	55V48	41.6	40.9	38.8	39.6
1659	4A421	42.8	41.8	39.0	42.5
1664	SUPER_NOVA	42.0	42.8	39.9	38.9
1667	54Q32	39.7	39.8	39.0	38.1
1675	CW_02013	41.9	41.4	38.3	39.1
1676	QS44031	40.8	42.0	41.1	39.7
1677	QS4010	39.0	40.7	38.9	38.6
1678	SURVIVOR	40.5	43.9	37.4	40.6
1680	RESPONSE_WT	43.0	39.9	39.9	39.9
	Mean	41.3	42.0	39.6	39.5
	se	1.19	1.45	1.13	1.00

NDF: The lower the NDF value, the higher the intake potential.

Elora Alfalfa Performance Trial, Seeded 2009, 2010 harvest.
 Expt. 2877 & 2881

Relative Feed Value (RFV)

Code	Variety	Cutting Management			
		<u>Three harvest</u>		<u>Four harvest</u>	
		Cut1	Cut2	Cut1	Cut2
1325	MAGNUM_IV	145	145	147	154
1409	AFFINITY+Z	155	158	150	162
1432	OAC_SUPERIOR	152	142	158	159
1481	APPROVED	148	147	160	156
1482	WINTERGOLD	144	149	165	167
1498	134	149	136	157	162
1521	MAGNUM_3801	144	133	150	151
1525	FORECAST_100	154	143	152	154
1537	VALIANT	155	146	161	159
1598	54H11	142	153	159	164
1599	WL319HQ	147	145	160	165
1600	SATELLITE	141	134	156	165
1603	WL357HQ	150	137	153	153
1614	94023	149	138	155	160
1617	WL348AP	143	139	151	160
1618	WL345LH	151	142	161	163
1619	EVERMORE	150	145	158	161
1624	LEXUS	149	136	149	155
1630	FSG400LH	154	153	152	155
1636	RADAR	162	152	153	161
1637	53H92	154	155	162	168
1646	WL343HQ	151	147	162	155
1649	STELLAR_FG	143	151	143	159
1652	55V48	147	149	158	157
1659	4A421	144	144	159	146
1664	SUPER_NOVA	149	143	155	161
1667	54Q32	155	156	158	166
1675	CW_02013	146	148	164	161
1676	QS44031	152	145	151	158
1677	QS4010	160	152	161	164
1678	SURVIVOR	152	138	167	155
1680	RESPONSE_WT	143	155	155	157
	Mean	149	146	156	159
	se	5.2	6.6	4.8	4.9

RFV: The greater the RFV, the higher the relative feeding quality.