

Bowley
revised

CORRECTED 27 Oct 1998

ONTARIO FORAGE CROP INVESTIGATIONS



1998 REPORT ON FIELD TRIALS OF VARIETIES AND MIXTURES

- Huron Park
- Guelph
- Kemptville
- New Liskeard
- Thunder Bay
- Kapuskasing

1998 REPORT ON FORAGE CROPS TRIALS

ONTARIO FORAGE CROP COMMITTEE

Compiled by: Steve Bowley

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Agriculture and Agri-Food Canada
Experimental Farm
Box 160
Kapusksing, Ontario
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Conducted co-operatively by:

**University of Guelph
Ontario Ministry of Agriculture, Food and Rural Affairs
Agriculture and Agri-Food Canada.**

This is the 1998 Ontario Forage Crop Investigations Report. The information contained here was published as submitted by the crop coordinators. 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***Not For Publication:* This is a progress report of co-operative investigations containing data, the interpretation of which may be modified with additional experimentation.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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Additional copies of this report is obtainable from ~~the~~ Secretary (Mr. Jim Johnston).

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ONTARIO
 Kapuskasing
 Alfalfa Test A
 Expt. 6315
 Seeded 1993

Cultivars	Code	1998 (kg/ha)		Tot98
		Cut 1	Cut 2	
PS 93-11	1311	4897	2629	7526
CENTURION	9053	4635	2586	7221
SARANAC	1001	4624	2514	7138
PS 93-15	1315	4658	2430	7088
91211	1278	4679	2356	7035
PS 93-17	1312	4498	2499	6997
CW-1404	1319	4540	2432	6972
4J19	1287	4611	2342	6953
91315	1279	4575	2322	6897
91800	1280	4385	2477	6862
PS 92-2ML	1313	4406	2426	6832
CW-1312	1318	4472	2341	6813
91-12	1322	4567	2234	6801
2J08	1306	4461	2234	6695
2J01	1285	4427	2262	6689
92809	1305	4324	2310	6634
ABI 9138C	1284	4221	2401	6622
ARROW	1074	4336	2249	6585
91795	1303	4003	2184	6187
120	9002	4096	2081	6177
MEAN/MOYENNE	900	4471	2365	6836
CV	901	5.5	10.0	6.2
LSD	902	349	334	598
F	907	**	NS	**

RCBD arrangement, 4 blocks {1234}

HARVEST : 1st cut at late bud, others 6-7 weeks later.

HARVEST DATES : 07/02/98 08/12/98

FERTILIZATION : Phosphorus and potassium soil levels adequate.

ONTARIO
New Liskeard
Alfalfa Trial A
Expt. 9402
Seeded 1994

Code	Cultivar	1998 (kg/ha)		Tot98	Tot97	2yrTot
		Cut 1	Cut 2			
1001	SARANAC	7217	4215	11578	8979	20536
1074	ARROW	7042	4049	11030	8887	19949
1302	PREMIER_PLUS	7123	3887	11004	8287	19280
1303	91795	6839	3972	10706	8308	19060
1318	JACKPOT	6760	4156	10867	8525	19390
1320	CW-1434	7095	4142	11175	8824	20023
1322	WL_252HQ	7503	4259	11567	8633	20190
1331	DK127	7347	4417	11814	8962	20779
1332	FG2B08	6731	4123	10911	8834	19688
1333	RAINIER	6505	3946	10391	8679	19061
1335	FG3B21	6900	3875	10537	8817	19372
1343	PS94-02	7244	4216	11592	9024	20612
1345	PS94-04	7051	4084	11237	8797	20033
1346	PS94-05	8003	4517	12682	9206	21898
1354	STERLING	7124	3876	10991	8329	19317
1355	ULTRASTAR	6544	4386	10854	9031	19909
1357	HAYMAKER_II	6785	4462	11341	8788	20114
1358	BIG_HORN	6599	4281	11017	9173	20126
1359	CW_2043	7301	4240	11553	9197	20742
1365	RUSHMORE	7174	4066	11198	9262	20471
9002	120	6969	4157	11061	8246	19325
9053	CENTURION	7711	4271	12062	9117	21195
900	Mean	7071	4164	11235	8814	20049
901	CV	8.3	5.8	5.8	4.3	4.0
905	MCV	9.8	6.9	6.9	5.1	4.7
902	LSD	693.8	286.5	772.6	452.1	940.3
906	LSR	46.3	44.6	33.7	44.5	33.1
907	Pr>F(Trts)	0.0858	0.0077	0.0032	0.0013	0.0001
908	R_square	58.0	64.8	63.4	63.1	66.8

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

ONTARIO
New Liskeard
Alfalfa Trial B
Expt. 9403
Seeded 1994

Code	Cultivar	1998 (kg/ha)		Tot98	Tot97	2yrTot
		Cut 1	Cut 2			
1001	SARANAC	7778	4144	11841	8795	20590
1074	ARROW	8088	4373	12673	9270	21924
1330	EVOLUTION	8792	4381	13190	8955	22147
1342	PS94-01	7626	4136	11835	9248	21080
1348	MULTI-GEM	7261	4038	11299	7960	19284
1349	PSC_10939	8321	4699	13053	8842	21926
1350	PSC_10238	8139	4470	12556	8397	20920
1351	PSC_10235	7790	4596	12403	8600	21027
1352	WL_282	8562	4835	13488	9490	23017
1360	MAGNUM III-W	7556	4805	12261	8779	20990
1361	DS_9410	8659	4596	13437	9055	22466
1362	DEEPCROWN	8364	5312	13646	8974	22610
1363	91W04PR1	7859	4420	12069	8964	21009
1366	GREEN_FIELD	7912	4419	12403	8750	21161
1367	616	7508	4291	11503	8595	20202
1368	UGG510	8181	4540	12885	8808	21677
1369	UGG520	7833	4377	12193	8945	21105
1370	UGG530	7401	4196	11542	8635	20183
1371	E871	6642	4824	11358	9636	21017
1374	WINTERGREEN	7814	4712	12506	8763	21263
9002	120	7980	4533	12436	8634	21044
9053	CENTURION	8422	4286	12892	8968	21890
900	Mean	7931	4499	12430	8866	21297
901	CV	8.5	6.9	6.1	4.8	4.1
905	MCV	10.0	8.2	7.2	5.7	4.8
902	LSD	794.4	367.0	900.1	506.4	1024.7
906	LSR	37.0	28.8	38.4	30.2	27.4
907	Pr>F(Trts)	0.0092	0.0001	0.0001	0.0021	0.0000
908	R_square	68.4	64.8	68.4	59.3	72.9

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

ONTARIO
New Liskeard
Alfalfa Trial C
Expt. 9404
Seeded 1994

Code	Cultivar	1998 (kg/ha)		Tot98	Tot97	2yrTot
		Cut 1	Cut 2			
1001	SARANAC	7761	3777	11542	8730	19980
1074	ARROW	7563	3898	11418	8839	20318
1305	92809	7791	3867	11534	8400	20060
1306	PROOF	8598	3581	12171	8555	20752
1311	CW_1361	7875	3915	11843	9377	20888
1312	MULTIQUEEN	7777	3858	11614	9307	20845
1313	GIBRALTAR	8195	3971	12056	8630	20886
1315	PS_93-15	8021	3790	11926	8652	20680
1319	ALFASTAR	7709	4473	12047	9479	21623
1334	NOTICE	8075	3711	11660	9242	20901
1336	FG3B27	8037	3958	12124	8647	20724
1337	C-3236	7648	3990	11555	9071	20866
1338	LIGHTNING	8126	3911	12092	9786	21737
1339	DEMAND	7899	3612	11597	8415	19813
1340	INNOVATOR_+Z	7624	4047	11584	8840	20309
1341	TOTAL	7751	3859	11706	8252	20298
1344	PS94-03	7705	3989	11656	9012	20783
1353	92-132	8160	3825	12026	8565	20638
1356	ABACUS	8337	3645	11979	9566	21542
1364	YAM410	8066	3914	11977	9072	20782
1372	A9010	8172	3699	12000	9550	21510
9002	120	8227	3664	11925	8820	20887
9053	CENTURION	8318	3815	12170	9292	21482
900	Mean	7975	3860	11835	8961	20796
901	CV	8.9	9.1	7.2	6.7	5.9
905	MCV	10.6	10.8	8.6	7.9	7.0
902	LSD	842.0	415.2	1012.9	707.0	1452.2
906	LSR	81.4	46.6	134.6	46.1	75.5
907	Pr>F(Trts)	0.9346	0.3678	0.9984	0.0185	0.8176
908	R_square	29.0	36.9	23.0	64.4	27.7

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

ONTARIO
 New Liskeard
 Alfalfa Trial D
 Expt. 9405
 Seeded 1994

Code	Cultivar	1998 (kg/ha)		Tot98	Tot97	2yrTot
		Cut 1	Cut 2			
1001	SARANAC	7388	4909	12229	11120	23249
1074	ARROW	7590	3656	11152	10923	22287
1300	ABI9146	8181	5274	13293	11424	24823
1301	ABI9227	7831	5118	12977	10627	23607
1304	91804	7940	4728	12636	11310	24184
1307	2J90	7272	4435	11831	11188	22705
1308	3J04	7311	4379	11514	11085	22844
1309	GH794	8255	4787	13304	10222	23193
1310	SPLENDOR	8145	5270	13374	11742	25090
1314	PS_91-1	7955	4686	12472	10347	23053
1316	UGG-430	8208	5242	13463	11091	24573
1317	UGG-450	7686	4882	12359	10962	23414
1321	90-124	7986	4780	12767	11179	23991
1323	ABI_9145	8277	5022	13092	11069	24295
1324	HORNET	8676	5487	14063	11757	25890
1325	MAGNUM_IV	8127	5393	13539	11568	25132
1326	A_8910	8240	4641	13034	11180	24064
1327	A_9108	7322	5450	12526	10490	23277
1328	330	9224	5559	14991	11697	26439
1329	SPARTAN	7777	4849	12642	10765	23345
1373	A9107	8719	4517	13673	11742	25127
9053	CENTURION	7921	4605	12769	11422	24026
900	Mean	8002	4894	12895	11132	24028
901	CV	10.2	15.7	8.1	4.4	5.0
905	MCV	12.0	18.5	9.6	5.2	5.9
902	LSD	960.2	905.8	1239.4	578.3	1406.9
906	LSR	49.2	47.6	32.3	37.7	33.9
907	Pr>F(Trts)	0.2295	0.1728	0.0034	0.0001	0.0002
908	R_square	47.5	52.7	63.2	70.4	68.5

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

ONTARIO
Elora
Alfalfa Registration A
Expt. 2713
Seeded 1995

Code	Cultivar	1998 (kg/ha)		Cut 3	Tot98	Tot97	Tot96	3yrTot
		Cut 1	Cut 2					
1001	SARANAC	4450	1915	1174	7539	7619	7765	22923
1074	ARROW	4471	1741	955	7168	7515	6265	20948
1331	DK127	4651	1824	1118	7592	8093	6854	22539
1343	PS94-02	4492	1570	854	6916	6736	7257	20909
1344	PS94-03	4593	1643	999	7235	8074	6954	22262
1345	PS94-04	4664	1878	1045	7587	7478	6933	21999
1346	PS94-05	4430	1624	1116	7169	7459	6433	21061
1354	STERLING	4422	1447	861	6730	7065	6640	20435
1355	ULTRASTAR	4533	1746	1084	7363	6820	6344	20526
1356	ABACUS	4666	1634	836	7136	7865	7050	22050
1357	HAYMAKER II	4661	1905	1294	7860	7572	7046	22478
1358	BIG HORN	4900	1950	1124	7974	6834	6705	21514
1359	CW 2043	4769	1712	1131	7612	7982	6580	22174
1364	YAM410	4758	1596	864	7218	7043	7121	21382
1365	RUSHMORE	4364	1805	1046	7215	7417	6862	21494
1378	B44	4412	1702	1018	7132	7646	6025	20803
1379	CIBA 2888	4706	1615	756	7077	7511	7429	22017
1386	9326	4810	1672	940	7422	7711	6622	21755
1400	YAL47	5116	1426	846	7388	7231	6796	21416
1404	93-136	4587	2023	1016	7626	7158	7059	21843
9002	120	4228	1437	602	6268	7086	6473	19826
9053	CENTURION	4876	1767	929	7572	7415	7089	22076
900	Mean	4616	1710	982	7309	7424	6832	21565
901	CV	7.9	8.5	24.8	8.6	8.0	8.3	2.5
905	MCV	13.6	14.7	42.6	14.8	13.8	14.2	4.4
902	LSD	628.1	251.1	418.8	1081.9	1027.4	973.2	945.1
906	LSR	70.7	42.0	60.6	63.4	75.7	55.9	30.5
907	Pr>F(Trts)	0.8427	0.0177	0.6580	0.7704	0.6204	0.4914	0.0014
908	R_square	80.4	78.7	58.5	77.0	63.7	57.4	90.1

RCBD arrangement, 2 blocks {13}

*rejected not used.
in summary.*

ONTARIO
New Liskeard
Alfalfa Trial A
Expt. 9501
Seeded 1995

Code	Cultivar	1998 (kg/ha)		Tot98	Tot97	2yrTot
		Cut 1	Cut 2			
1001	SARANAC	6221	4030	10410	8947	19311
1074	ARROW	6872	4141	10923	8845	19904
1331	DK127	6922	4206	11119	8985	20331
1343	PS94-02	7267	4090	11420	9352	20940
1344	PS94-03	7173	3793	10909	9311	20315
1345	PS94-04	6885	4328	11309	8842	20180
1346	PS94-05	7228	3993	11210	8792	19942
1354	STERLING	6027	4063	10165	8567	18662
1355	ULTRASTAR	6859	4017	10864	9445	20496
1356	ABACUS	6894	4170	11010	8470	19404
1357	HAYMAKER_II	6870	3892	10797	8924	19690
1358	BIG_HORN	6548	4229	10674	8826	19580
1359	CW_2043	6958	4127	11136	8939	20115
1364	YAM410	7073	4051	11072	9042	19922
1365	RUSHMORE	6654	4057	10747	9076	19783
1378	B44	5965	3960	10001	8567	18562
1379	CIBA_2888	6573	4605	11111	9006	20055
1386	9326	6580	4189	10721	8810	19415
1400	YAL47	5708	4112	9795	8469	18207
1404	93-136	6343	4249	10631	8743	19362
9002	120	6601	3708	10402	8947	19075
9053	CENTURION	6725	3861	10392	9173	19648
900	Mean	6679	4085	10764	8913	19677
901	CV	11.0	7.4	8.0	5.0	4.7
905	MCV	13.0	8.7	9.5	5.9	5.6
902	LSD	867.9	356.1	1021.7	527.9	1102.6
906	LSR	55.7	39.7	62.8	54.1	40.3
907	Pr>F(Trts)	0.2351	0.1046	0.5110	0.2898	0.0202
908	R_square	70.8	45.2	66.3	34.5	66.7

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

ONTARIO
Thunder Bay
Alfalfa Registration A
Expt. 7247
Seeded 1995

Code	Cultivar	1998 (kg/ha)		Tot98
		Cut 1	Cut 2	
1001	SARANAC	4753	1154	6004
1074	ARROW	3705	890	4597
1331	DK127	4524	1158	5689
1343	PS94-02	4603	1146	5795
1344	PS94-03	3785	874	4617
1345	PS94-04	4013	966	4997
1346	PS94-05	4062	955	5045
1354	STERLING	4038	832	4814
1355	ULTRASTAR	4786	1264	6023
1356	ABACUS	4086	797	4935
1357	HAYMAKER II	4342	1202	5517
1358	BIG HORN	4336	1225	5542
1359	CW 2043	4159	1001	5136
1364	YAM410	4720	1163	5879
1365	RUSHMORE	4607	1186	5848
1378	B44	4224	903	5136
1379	CIBA 2888	4344	1096	5435
1386	9326	4211	1201	5354
1400	YAL47	4193	1273	5502
1404	93-136	4566	1342	5856
9002	120	4055	802	4827
9053	CENTURION	4814	985	5792
900	Mean	4315	1064	5379
901	CV	9.0	15.5	8.8
905	MCV	10.6	18.3	10.3
902	LSD	457.1	194.9	556.2
906	LSR	41.2	35.8	39.0
907	Pr>F(Trts)	0.0015	0.0000	0.0000
908	R_square	72.6	82.3	77.7

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

ONTARIO
 Kapuskasing
 Alfalfa Test A
 Expt. 6326
 Seeded 1995

Cultivars	Code	1998 (kg/ha)		Tot98
		Cut 1	Cut 2	
SARANAC	1001	4886	1973	6859
YAL 47	1400	4809	1796	6605
92W02PM1	1364	4881	1707	6588
CW 2043	1359	4376	1940	6316
PS94-04	1345	4619	1659	6278
120	9002	4418	1758	6176
CIBA 2888	1379	4475	1649	6124
93-136	1404	4407	1678	6085
PS94-03	1344	4298	1773	6071
4J12	1354	4320	1684	6004
PS94-02	1343	4346	1644	5990
B44	1378	4295	1689	5984
CW 1351	1356	4178	1751	5929
CW 2040	1358	4340	1542	5882
3B37	1331	4228	1603	5831
CENTURION	9053	4114	1694	5808
CW 1436	1357	3803	1858	5661
PS94-05	1346	4124	1524	5648
RUSHMORE	1365	4050	1587	5637
CW 2353	1386	4102	1503	5605
CW 1005	1355	3845	1694	5539
ARROW	1074	3807	1355	5162
MEAN/MOYENNE	900	4306	1685	5990
CV	901	11.2	12.8	10.7
LSD	902	683	301	905
F	907	NS	*	NS

RCBD arrangement, 4 blocks {1234}

HARVEST DATES : 07/01/98 08/11/98

ONTARIO
 New Liskeard
 Alfalfa Trial B
 Expt. 9502
 Seeded 1995

Code	Cultivar	1998 (kg/ha)		Tot98	Tot97	2yrTot
		Cut 1	Cut 2			
1001	SARANAC	8174	4595	12662	9422	22117
1074	ARROW	9013	4926	13919	9320	23193
1098	MAGNUM III	9787	5031	14868	9005	23975
1375	ABT 205	9203	5099	14194	9676	23831
1376	ABT 405	8838	4954	13733	9331	23181
1377	SUPERCUTS	9070	4951	13951	9702	23656
1380	C-3220	9324	4705	14083	9680	23765
1381	3T44	9178	4800	13923	9466	23393
1382	ALPHA 2001	8906	4872	13707	9166	22753
1383	MS95-06	8563	4782	13481	9673	23112
1384	MS95-07	8308	4802	13259	9503	22871
1385	NY9012	9497	4697	14279	9318	23647
1387	WINTERKING	8930	4854	13929	8660	22508
1388	GOLD PLUS	9810	4837	14649	9515	24347
1389	DK142	8349	4985	13282	9297	22354
1390	CW-3347	9114	5131	14188	9829	23880
1402	STAMPEDE	8278	5086	13295	8968	22257
1403	92-31	8925	4875	13836	8997	22842
1405	GH766QP	8593	5112	13620	8847	22277
1406	PSC 10222	9266	4696	14035	9446	23581
9002	120	9993	4591	14548	8908	23570
9053	CENTURION	8926	4726	13710	9142	22914
900	Mean	9002	4868	13871	9312	23183
901	CV	9.9	5.3	7.0	6.8	4.7
905	MCV	11.7	6.3	8.3	8.0	5.5
902	LSD	1049.2	304.5	1153.6	743.7	1273.9
906	LSR	57.7	56.4	52.3	63.7	57.1
907	Pr>F(Trts)	0.2711	0.1111	0.4567	0.4653	0.2126
908	R_square	62.7	48.3	60.0	47.9	70.7

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

ONTARIO
 Thunder Bay
 Alfalfa Registration B
 Expt. 7248
 Seeded 1995

Code	Cultivar	1998 (kg/ha)		
		Cut 1	Cut 2	Tot98
1001	SARANAC	5461	1354	6800
1074	ARROW	4646	988	5612
1098	MAGNUM III	4962	1368	6332
1375	ABT_205	4879	1050	5948
1376	ABT_405	4611	1235	5856
1377	SUPER CUTS	5151	1240	6389
1380	C-3220	4752	1178	5900
1381	3T44	4626	1118	5763
1382	ALPHA 2001	5270	1344	6607
1383	MS95-06	4219	908	5168
1384	MS95-07	5079	1208	6266
1385	NY9012	4935	1431	6356
1387	WINTERKING	4276	991	5290
1388	GOLD PLUS	4961	1284	6248
1389	DK142	4739	1312	6035
1390	CW-3347	4976	1279	6269
1402	STAMPEDE	5200	1368	6557
1403	92-31	5244	1491	6747
1405	GH766QP	5119	1411	6528
1406	PSC_10222	5244	1236	6478
9002	120	4685	967	5647
9053	CENTURION	4717	1098	5816
900	Mean	4898	1221	6119
901	CV	9.3	14.3	9.3
905	MCV	11.0	16.9	11.0
902	LSD	541.0	206.8	671.1
906	LSR	43.5	35.5	41.1
907	Pr>F(Trts)	0.0469	0.0001	0.0061
908	R_square	62.9	67.8	65.8

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

ONTARIO
 Kapuskasing
 Alfalfa Test B
 Expt. 6327
 Seeded 1995

Cultivars	Code	1998 (kg/ha) Cut 1	Cut 2	Tot98
NY9012	1385	4483	2438	6921
SARANAC	1001	4522	2392	6914
PSC 10222	1406	4506	2305	6811
CW-3347	1390	4456	2205	6661
MS95-06	1383	4315	2152	6467
MAGNUM III	1098	4288	2177	6465
CENTURION	9053	4283	2154	6437
CW-3408	1388	4135	2265	6400
120	9002	4160	2230	6390
ABT 405	1376	4266	2056	6322
ARROW	1074	4212	2018	6230
93-110	1405	4155	2062	6217
92-31	1403	4058	2129	6187
ALPHA 2001	1382	4031	2146	6177
SUPERCUTS	1377	4010	2158	6168
MS95-07	1384	4112	2030	6142
CW-3414	1389	3963	2093	6056
ABT 205	1375	4034	2006	6040
DS9311	1402	3925	2054	5979
C-3220	1380	3828	2092	5920
3T44	1381	3871	1953	5824
CW-2360	1387	3869	1933	5802
MEAN/MOYENNE	900	4158	2139	6297
CV	901	11.3	13.0	10.7
LSD	902	666	393	952
F	907	NS	NS	NS

RCBD arrangement, 4 blocks {1234}

HARVEST DATES : 07/01/98

08/11/98

ONTARIO
Elora
Alfalfa Registration Trial C
Expt. 2715
Seeded 1995

Code	Cultivar	1998 (kg/ha)		Cut 3	Tot98	Tot97	Tot96	3yrTot
		Cut 1	Cut 2					
1001	SARANAC	4715	2143	1238	8166	8441	7556	24414
1074	ARROW	4798	1989	1208	7994	7457	6929	22288
1332	FG2B08	4848	2109	1380	8288	8590	7740	24741
1333	RAINIER	4547	1996	1462	7911	8390	8051	24454
1334	NOTICE	5101	2102	1479	8683	8469	7917	24950
1335	FG3B21	5057	2157	1514	8773	7589	7393	23666
1336	FG3B27	5294	2122	1214	8644	8119	7690	24513
1337	C-3236	4446	2125	1243	7835	8005	7579	23790
1338	LIGHTNING	4773	2055	1466	8294	8167	7813	24256
1339	DEMAND	5168	2264	1264	8642	6539	6627	21578
1340	INNOVATOR_+Z	4640	2009	1265	7851	7405	6585	21948
1353	92-132	4532	2243	1352	8127	7349	7129	22399
1391	DEPEND+EV	4504	1878	1211	7583	7411	7621	22688
1392	AMERIGRAZE40	4478	2387	1281	8213	7278	7133	22446
1393	A9201	4773	2048	1267	8071	7924	7516	23365
1394	A9203	4563	2273	1299	8105	7693	7186	23003
1395	PS95-01	5221	2305	1592	9192	8700	8145	26097
1396	PS95-02	5007	1944	1321	8346	8191	7566	24035
1397	PS95-03	5028	2252	1341	8618	7797	7517	23869
1398	CASCADIA_ML	4795	2050	1158	7894	7479	7723	23110
1399	PS95-05	4424	2356	1545	8368	7262	6902	22419
9002	120	4912	2307	1286	8526	7388	7310	23378
9053	CENTURION	4783	1894	1407	8081	8315	7133	23519
900	Mean	4800	2131	1339	8270	7824	7424	23518
901	CV	7.1	10.4	11.5	5.5	6.9	7.0	5.0
905	MCV	9.8	14.2	15.8	7.6	9.5	9.6	6.9
902	LSD	468.4	303.3	212.1	624.4	741.3	711.9	1631.5
906	LSR	53.8	59.5	48.9	38.8	34.3	45.6	36.1
907	Pr>F(Trts)	0.0563	0.2487	0.0457	0.0253	0.0012	0.0641	0.0048
908	R_square	75.1	73.1	78.5	86.0	66.8	67.4	74.6

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

ONTARIO
New Liskeard
Alfalfa Trial C
Expt. 9503
Seeded 1995

Code	Cultivar	1998 (kg/ha)		Tot98	Tot97	2yrTot
		Cut 1	Cut 2			
1001	SARANAC	7048	4512	11768	8800	20331
1074	ARROW	8682	4050	12941	9207	22135
1332	FG2B08	8417	3810	12380	10060	22344
1333	RAINIER	7802	4181	12135	9892	21953
1334	NOTICE	8181	4041	12189	9416	21516
1335	FG3B21	8141	4342	12576	9554	22221
1336	FG3B27	7511	4141	11810	10261	21978
1337	C-3236	8832	4404	13194	9220	22473
1338	LIGHTNING	7334	4492	11664	9267	21039
1339	DEMAND	8068	4235	12150	9317	21426
1340	INNOVATOR_+Z	8207	3978	12227	9828	22083
1353	92-132	7617	4559	11931	9853	21847
1391	DEPEND+EV	6634	4383	11132	8880	19997
1392	AMERIGRAZE40	9398	4720	14061	9901	24020
1393	A9201	7440	4208	11742	9507	21116
1394	A9203	8342	3816	12318	9583	21989
1395	PS95-01	9708	5192	14195	10075	24314
1396	PS95-02	7404	3001	10647	10077	20437
1397	PS95-03	7934	4697	12138	8793	21339
1398	CASCADIA_ML	7422	4315	11741	9753	21501
1399	PS95-05	6917	4091	11216	9417	20611
9002	120	8091	4161	12314	9311	21739
9053	CENTURION	8194	4011	12197	9570	21801
900	Mean	7971	4232	12203	9545	21748
901	CV	9.7	13.0	7.7	4.6	4.7
905	MCV	16.7	22.4	13.3	7.9	8.0
902	LSD	1330.9	947.4	1620.6	753.9	1750.0
906	LSR	43.3	43.2	45.7	51.4	40.5
907	Pr>F(Trts)	0.1232	0.7283	0.2857	0.1262	0.1264
908	R_square	66.8	48.2	63.6	65.1	67.2

RCBD arrangement, 4 blocks (1234)
Nearest-neighbour covariance adjusted.

ONTARIO
 Thunder Bay
 Alfalfa Registration C
 Expt. 7249
 Seeded 1995

Code	Cultivar	1998 (kg/ha)		Tot98
		Cut 1	Cut 2	
1001	SARANAC	4770	1458	6241
1074	ARROW	4085	1148	5235
1332	FG2B08	4504	1540	6044
1333	RAINIER	3996	1200	5203
1334	NOTICE	4435	1260	5704
1335	FG3B21	3976	1318	5304
1336	FG3B27	3940	1158	5087
1337	C-3236	4056	1251	5297
1338	LIGHTNING	4266	1390	5627
1339	DEMAND	3939	1138	5076
1340	INNOVATOR_+Z	4264	1324	5607
1353	92-132	4142	1442	5581
1391	DEPEND+EV	4097	1202	5284
1392	AMERIGRAZE40	4337	1324	5663
1393	A9201	4208	1472	5693
1394	A9203	4052	1186	5228
1395	PS95-01	4222	1229	5424
1396	PS95-02	4350	1366	5710
1397	PS95-03	4697	1456	6177
1398	CASCADIA_ML	4212	1221	5452
1399	PS95-05	3950	1350	5310
9002	120	4378	1185	5579
9053	CENTURION	4677	1363	6008
900	Mean	4241	1304	5545
901	CV	8.0	12.1	8.3
905	MCV	11.0	16.6	11.4
902	LSD	466.5	216.6	633.5
906	LSR	56.2	53.9	54.4
907	Pr>F(Trts)	0.0966	0.0709	0.1012
908	R_square	60.3	56.2	59.2

RCBD arrangement, 3 blocks {134}
 Nearest-neighbour covariance adjusted.

ONTARIO
 Kapuskasing
 Alfalfa Test C
 Expt. 6328
 Seeded 1995

Cultivars	Code	1998 (kg/ha)		
		Cut 1	Cut 2	Tot98
PS95-02	1396	4747	2105	6852
ABI-ZG9445	1392	4675	1854	6529
ABI-923AA	1340	4070	2001	6071
CENTURION	9053	4898	1977	6875
FG3B16	1333	3835	1994	5929
PS95-04	1398	4641	2043	6684
3B29	1338	4194	1877	6071
120	9002	4591	1796	6387
PS95-03	1397	3763	1994	5757
FG3B19	1334	3632	1954	5586
PS9501	1395	4159	1888	6047
A9203	1394	3881	1803	5684
92-132	1353	4182	2018	6200
FG3B27	1336	4172	1768	5940
C-3236	1337	4159	1944	6103
ABI-9231	1391	4252	1839	6091
SARANAC	1001	3969	2025	5994
A9201	1393	3435	1901	5336
PS95-05	1399	3806	1941	5747
ABI-9236	1339	3702	1809	5511
FG3B21	1335	3700	1806	5506
ARROW	1074	3835	1711	5546
FG2B08	1332	3512	1879	5391
MEAN/MOYENNE	900	4096	1923	6019
CV	901	13.6	9.1	10.3
LSD	902	915	284	1019
F	907	NS	NS	NS

RCBD arrangement, 3 blocks {234}

HARVEST DATES : 07/01/98 08/11/98

ONTARIO
 New Liskeard
 Alfalfa Trial D
 Expt. 9504
 Seeded 1995

Code	Cultivar	1998 (kg/ha)		Tot98	Tot97	2yrTot
		Cut 1	Cut 2			
1001	SARANAC	8070	3999	12025	9619	21683
1074	ARROW	8362	4067	12422	9130	21721
1330	EVOLUTION	8887	4481	13454	8896	22314
1341	TOTAL	8422	4196	12571	9082	21679
1342	PS94-01	8782	3918	12687	9702	22418
1348	MULTI-GEM	7716	3941	11713	8654	20444
1349	PSC_10939	8753	4313	13010	9020	22056
1350	PSC_10238	8442	4347	12755	9424	22224
1351	PSC_10235	8654	4087	12762	9225	21936
1352	WL_282	9162	4659	13785	9419	23162
1360	MAGNUM III-W	8755	4358	13183	9389	22565
1361	DS_9410	9220	4585	13819	9648	23486
1362	DEEPCROWN	8548	4741	13249	8859	22144
1366	GREEN_FIELD	8850	4313	13120	9259	22454
1367	616	8186	4289	12431	9408	21794
1368	UGG510	8563	4371	12835	9085	21847
1369	UGG520	8327	4055	12364	9036	21381
1370	UGG530	8005	4530	12577	8944	21483
1372	A9010	8888	4106	13017	9769	22692
1373	A9107	8737	3997	12838	9693	22490
1374	WINTERGREEN	9652	4698	14370	9427	23771
9053	CENTURION	8582	4108	12734	10294	22960
900	Mean	8616	4280	12897	9317	22214
901	CV	8.2	5.4	5.4	5.8	4.2
905	MCV	9.6	6.4	6.4	6.8	5.0
902	LSD	831.2	273.6	824.6	633.8	1106.8
906	LSR	42.9	33.3	31.0	38.6	33.3
907	Pr>F(Trts)	0.1133	0.0000	0.0007	0.0255	0.0033
908	R_square	42.3	70.2	53.4	42.3	50.9

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

ONTARIO
 Kapuskasing
 Alfalfa Test D
 Expt. 6329
 Seeded 1995

Code	Cultivar	1998 (kg/ha)		Tot98
		Cut 1	Cut 2	
1001	SARANAC	3526	1820	5358
1074	ARROW	2761	1625	4372
1330	EVOLUTION	3117	1543	4665
1341	TOTAL	3526	1894	5399
1342	PS94-01	3546	1982	5537
1348	MULTI-GEM	3438	1723	5126
1349	PSC_10939	3428	1885	5320
1350	PSC_10238	3350	1770	5160
1351	PSC_10235	3249	1924	5158
1352	WL_282	3226	1779	4991
1360	MAGNUM III-W	3565	1751	5340
1361	DS_9410	3427	1494	4929
1362	DEEPKROWN	3334	1696	5010
1366	GREEN_FIELD	3600	1743	5322
1367	616	3448	2059	5501
1368	UGG510	3528	1775	5348
1369	UGG520	3172	1431	4571
1370	UGG530	3341	1314	4639
1372	A9010	3383	1656	5058
1373	A9107	3452	1908	5365
1374	WINTERGREEN	3324	1605	4942
9053	CENTURION	3655	1789	5448
900	Mean	3382	1735	5116
901	CV	8.9	16.0	9.5
905	MCV	12.2	22.0	13.0
902	LSD	413.7	382.3	666.6
906	LSR	46.3	51.3	57.2
907	Pr>F(Trts)	0.3061	0.2584	0.2267
908	R_square	81.5	62.0	79.0

RCBD arrangement, 3 blocks {234}
 Nearest-neighbour covariance adjusted.

ONTARIO
 Elora
 Alfalfa Registration Trial A
 Expt. 2724
 Seeded 1996

Code	Cultivar	1998 (kg/ha)		Cut 3	Tot98	Tot97	2yrTot
		Cut 1	Cut 2				
1001	SARANAC	4994	3715	2691	11282	9933	21309
1074	ARROW	4913	3840	2105	10866	9094	19815
1285	FORERUNNER	5147	3551	2450	11120	9093	20069
1408	MARINER	5107	3656	2560	11439	9521	20879
1410	CW-3433	5321	3658	2810	11705	9695	21438
1411	CW-4335	4916	3618	2569	11104	9552	20766
1412	CW-4403	4773	3515	2664	11003	9683	20444
1413	CW-4429	5403	3722	2739	11856	9391	21200
1414	PS9601	4901	3623	2657	11292	9173	20431
1415	PS9602	4883	3601	2568	11101	9199	20344
1416	PS9603	4896	3614	2620	10998	8955	20005
1417	PS9604	4675	3478	2554	10846	9209	20098
1418	PS9605	4713	3704	2755	11125	9371	20661
1419	93W03PM1	5243	3894	2668	11873	9736	21532
1420	93-39	4681	3460	2555	10635	8595	19404
1421	COLUMBIA2000	4910	3501	2431	10798	8897	19744
1422	FORECAST1000	5084	3682	2543	11238	9469	20712
1423	FORECAST3000	4817	3624	2452	10964	9375	20318
1424	92-28	4958	3484	2762	11163	8822	19914
9053	CENTURION	5164	3681	2399	11264	9365	20719
900	Mean	4975	3631	2578	11184	9306	20490
901	CV	8.7	5.9	6.2	5.2	4.7	3.7
905	MCV	10.4	7.1	7.4	6.2	5.6	4.5
902	LSD	516.9	256.5	190.8	696.6	520.0	912.3
906	LSR	71.0	59.1	27.1	56.3	38.9	42.9
907	Pr>F(Trts)	0.6494	0.4101	0.0000	0.2530	0.0085	0.0081
908	R_square	50.7	55.9	72.9	58.3	69.5	70.1

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

ONTARIO
New Liskeard
Alfalfa Trial A
Expt. 9601
Seeded 1996

Code	Cultivar	1998 (kg/ha)		Tot98	Tot97	2yrTot
		Cut 1	Cut 2			
1001	SARANAC	6964	6066	12960	9669	22607
1074	ARROW	6863	6017	12973	9892	22809
1285	FORERUNNER	7943	5769	13764	9626	23504
1408	MARINER	7517	6306	13945	9628	23502
1410	CW-3433	6759	6438	13121	10118	23319
1411	CW-4335	7516	5901	13267	10470	23585
1412	CW-4403	7076	6235	13302	9814	23148
1413	CW-4429	7225	5764	13085	9951	22946
1414	PS9601	6935	6078	13146	9553	22734
1415	PS9602	6996	5620	12466	9929	22586
1416	PS9603	7100	6003	13214	10426	23844
1417	PS9604	6902	6027	12777	10031	22780
1418	PS9605	6736	6109	12753	10014	22689
1419	93W03PM1	6381	6071	12415	10140	22643
1420	93-39	7155	5796	13130	9905	23131
1421	COLUMBIA2000	7320	5986	13520	10058	23473
1422	FORECAST1000	6979	6168	13147	10158	23054
1423	FORECAST3000	7276	6267	13305	9114	22302
1424	92-28	7201	5621	12821	9529	22392
9053	CENTURION	7286	6340	13600	10178	23866
900	Mean	7106	6029	13136	9910	23046
901	CV	6.2	6.9	4.8	5.8	3.6
905	MCV	7.4	8.2	5.8	6.9	4.3
902	LSD	524.6	496.8	757.3	682.1	993.7
906	LSR	33.6	60.7	49.5	50.3	63.5
907	Pr>F(Trts)	0.0136	0.3261	0.2198	0.2551	0.3339
908	R_square	53.3	46.3	42.5	45.8	41.4

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

ONTARIO
 Thunder Bay
 Alfalfa Registration A
 Expt. 7257
 Seeded 1996

Code	Cultivar	1998 (kg/ha)		Tot98
		Cut 1	Cut 2	
1001	SARANAC	5167	2370	7567
1074	ARROW	5182	2530	7708
1285	FORERUNNER	4860	2301	7104
1408	MARINER	4997	2605	7647
1410	CW-3433	4493	2471	6944
1411	CW-4335	4867	2489	7307
1412	CW-4403	4700	2565	7233
1413	CW-4429	4394	2353	6761
1414	PS9601	5148	2529	7742
1415	PS9602	4893	2493	7402
1416	PS9603	4833	2472	7341
1417	PS9604	4499	2400	6851
1418	PS9605	4162	2507	6669
1419	93W03PM1	5134	2705	7846
1420	93-39	4919	2657	7545
1421	COLUMBIA2000	5434	2425	7856
1422	FORECAST1000	4812	2368	7236
1423	FORECAST3000	5000	2491	7494
1424	92-28	4905	2578	7469
9053	CENTURION	5226	2490	7705
900	Mean	4881	2490	7371
901	CV	7.1	6.9	6.2
905	MCV	8.4	8.2	7.3
902	LSD	410.5	204.5	541.5
906	LSR	32.3	50.6	45.6
907	Pr>F(Trts)	0.0005	0.2253	0.0074
908	R_square	64.7	66.3	67.6

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

ONTARIO
 Kapuskasing
 Alfalfa Test A
 Expt. 6330
 Seeded 1996

Cultivars	Code	1998 (kg/ha)		Tot98
		Cut 1	Cut 2	
PS9602	1415	5980	2974	8954
CENTURION	9053	5693	2980	8673
93-39	1420	5558	2930	8488
PS9601	1414	5542	2853	8395
PS9603	1416	5345	2696	8041
COLUMBIA2000	1421	5189	2699	7888
MARINER	1408	5160	2727	7887
SARANAC	1001	5139	2671	7810
CW-3433	1410	5000	2779	7779
ARROW	1074	5116	2585	7701
92-28	1424	4988	2702	7690
93W03PMI	1419	4995	2683	7678
CW-4335	1411	5033	2611	7644
PS9605	1418	4967	2642	7609
FORECAST1000	1422	5006	2586	7592
CW-4403	1412	4983	2562	7545
CW-4429	1413	4823	2655	7478
FORECAST3000	1423	5024	2439	7463
PS9604	1417	4798	2641	7439
FORERUNNER	1285	4688	2405	7093
MEAN/MOYENNE	900	5151	2691	7842
CV	901	12.7	11.0	11.5
LSD	902	929	420	1277
F	907	NS	NS	NS

RCBD arrangement, 4 blocks {1234}

HARVEST DATES : 07/02/98

08/11/98

ONTARIO
Elora
Alfalfa Registration Trial B
Expt. 2725
Seeded 1996

Code	Cultivar	1998 (kg/ha)		Cut 3	Tot98	Tot97	2yrTot
		Cut 1	Cut 2				
1001	SARANAC	5778	3415	2360	11708	9596	21313
1074	ARROW	5299	3073	2143	10517	9412	19742
1285	FORERUNNER	5329	3093	2197	10631	8863	19573
1391	DEPEND+EV	5581	3065	2194	10789	8875	19765
1392	AMERIGRAZE40	5623	3194	2426	11108	8411	19599
1393	A9201	5646	3249	2304	11130	9065	20188
1394	A9203	5655	3221	2259	11261	8844	20024
1409	ZG9346	5440	3174	2189	10746	8905	19670
1425	A9303	5876	3345	2427	11656	9150	20831
1426	A9305	5222	3234	2306	10790	8760	19549
1427	MS93-1ML	5304	2958	2044	10406	9324	19710
1428	MS96-06	5232	3365	2522	11062	9212	20287
1429	MS96-07	5791	3230	2443	11373	9420	20768
1430	ZG9431	5787	3133	2108	11091	8696	19887
1431	94GG	5476	2727	1742	9974	8272	18191
1432	A2693	5576	3395	2491	11457	9217	20664
1433	A2993	5670	3208	2207	11157	9154	20203
1442	A2793	5342	2877	1791	9934	8956	18910
1443	A2893	5414	3047	2012	10410	8569	19038
9053	CENTURION	5273	3100	2193	10573	9018	19580
900	Mean	5516	3155	2218	10889	8986	19875
901	CV	5.6	5.2	6.6	4.6	5.4	4.3
905	MCV	6.7	6.2	7.9	5.4	6.4	5.1
902	LSD	369.3	195.8	175.6	592.1	578.6	1015.4
906	LSR	56.5	28.5	22.5	33.4	43.7	32.5
907	Pr>F(Trts)	0.0454	0.0000	0.0000	0.0000	0.0305	0.0016
908	R_square	78.3	68.1	79.7	72.8	56.6	61.4

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

ONTARIO
 New Liskeard
 Alfalfa Trial B
 Expt. 9602
 Seeded 1996

Code	Cultivar	1998 (kg/ha)		Tot98	Tot97	2yrTot
		Cut 1	Cut 2			
1001	SARANAC	8544	5584	13949	11148	25182
1074	ARROW	8936	5716	14750	10556	25139
1285	FORERUNNER	9000	5508	14455	10678	24841
1391	DEPEND+EV	8318	5743	14174	9955	23904
1392	AMERIGRAZE40	10169	5713	15854	10229	26214
1393	A9201	9370	5916	15165	10326	25427
1394	A9203	8811	5614	14373	10856	25182
1409	ZG9346	8558	5706	14343	10891	25374
1425	A9303	9109	6371	15511	10501	26086
1426	A9305	8823	5624	14388	10311	24652
1427	MS93-1ML	9621	5512	15075	11374	26453
1428	MS96-06	8480	5617	14213	10330	24708
1429	MS96-07	9124	5628	14774	10739	25706
1430	ZG9431	9015	5750	14859	10105	25006
1431	94GG	8152	5244	13414	10484	24011
1432	A2693	8905	6041	14961	11083	25885
1433	A2993	9133	6086	15256	10755	26099
9053	CENTURION	9481	5377	14788	11298	26046
900	Mean	8975	5708	14683	10645	25329
901	CV	7.4	6.9	4.8	5.4	3.3
905	MCV	8.8	8.2	5.7	6.4	3.9
902	LSD	793.9	467.1	835.5	686.1	1000.2
906	LSR	39.4	41.5	34.2	48.3	39.2
907	Pr>F(Trts)	0.0333	0.0538	0.0042	0.0303	0.0012
908	R_square	48.8	49.1	54.7	60.3	56.9

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

ONTARIO
 Thunder Bay
 Alfalfa Registration B
 Expt. 7258
 Seeded 1996

Code	Cultivar	1998 (kg/ha)		Tot98
		Cut 1	Cut 2	
1001	SARANAC	4880	2167	7058
1074	ARROW	4732	2368	7099
1285	FORERUNNER	4772	2326	7091
1391	DEPEND+EV	4789	2436	7234
1392	AMERIGRAZE40	4592	2264	6879
1393	A9201	4664	2393	7040
1394	A9203	4626	2322	6972
1409	ZG9346	4813	2393	7203
1425	A9303	4532	2420	6959
1426	A9305	4581	2306	6855
1427	MS93-1ML	4390	1926	6323
1428	MS96-06	4465	2526	6988
1429	MS96-07	4605	2515	7126
1430	ZG9431	4614	2369	6955
1431	94GG	4428	1835	6262
1432	A2693	5028	2481	7494
1433	A2993	4304	2230	6542
9053	CENTURION	4641	2223	6873
900	Mean	4636	2306	6942
901	CV	4.6	6.2	4.3
905	MCV	5.5	7.3	5.2
902	LSD	254.4	169.2	358.2
906	LSR	35.1	24.5	29.1
907	Pr>F(Trts)	0.0026	0.0000	0.0001
908	R_square	75.5	75.4	74.6

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

ONTARIO
 Kapuskasing
 Alfalfa Test B
 Expt. 6331
 Seeded 1996

Cultivars	Code	1998 (kg/ha)	Cut 2	Tot98
		Cut 1		
A2693	1432	5787	3168	8955
ABI9231	1391	5618	3023	8641
A9303	1425	5277	2850	8127
AFFINITY-2	1409	5403	2775	8178
A9305	1426	5125	2629	7754
CENTURION	9053	5232	2866	8098
ABIZG9445	1392	5089	2776	7865
MS96-07	1429	5167	2904	8071
MS96-06	1428	5400	2617	8017
A9203	1394	5326	2338	7664
A9201	1393	5303	2747	8050
SARANAC	1001	5436	2775	8211
ARROW	1074	5276	2628	7904
ZG9431	1430	5290	2587	7877
MS93-1ML	1427	5104	2673	7777
FORERUNNER	1285	5063	2689	7752
A2993	1433	4862	2735	7597
94GG	1431	4791	2585	7376
MEAN/MOYENNE	900	5253	2742	7995
CV	901	6.3	10.8	6.1
LSD	902	549	491	812
F	907	ns	ns	ns

RCBD arrangement, 3 blocks {234}

HARVEST DATES : 07/02/98

08/12/98

ONTARIO
Elora
Alfalfa Registration Trial C
Expt. 2726
Seeded 1996

Code	Cultivar	1998 (kg/ha)		Cut 3	Tot98	Tot97	2yrTot
		Cut 1	Cut 2				
1001	SARANAC	6301	3491	2516	12360	10627	22950
1074	ARROW	6096	3198	2274	11458	10199	21816
1285	FORERUNNER	5732	3182	2255	11095	10185	21348
1378	B44	6009	3125	2349	11473	10070	21469
1379	CIBA 2888	5658	3204	2435	11258	10220	21492
1381	3T44	5967	3400	2528	11936	10119	22188
1383	MS95-06	5967	3295	2413	11657	10397	22008
1386	9326	5865	3294	2460	11656	10102	21739
1387	WINTERKING	5699	3277	2460	11453	10126	21627
1388	GOLD PLUS	5799	3305	2507	11508	10112	21580
1389	DK142	5995	3435	2531	12090	10156	22127
1390	CW-3347	5668	3214	2561	11520	10051	21460
1395	PS95-01	6086	3113	2315	11493	10258	21757
1396	PS95-02	5524	3186	2399	11054	10232	21227
1397	PS95-03	5754	3383	2553	11797	10169	21940
1398	CASCADIA ML	5714	3262	2331	11346	10178	21438
1399	PS95-05	5745	3345	2564	11658	9991	21818
1400	YAL47	5864	3304	2389	11580	9736	21276
1404	93-136	5985	3351	2530	11775	9892	21664
9053	CENTURION	5892	3293	2418	11600	10889	22553
900	Mean	5866	3283	2439	11588	10186	21774
901	CV	5.0	3.8	4.9	2.9	3.8	2.6
905	MCV	6.0	4.5	5.8	3.5	4.5	3.1
902	LSD	351.1	147.3	141.6	406.0	463.1	679.9
906	LSR	45.2	38.9	46.0	31.1	40.2	39.5
907	Pr>F(Trts)	0.0911	0.0038	0.0050	0.0004	0.1017	0.0100
908	R_square	77.6	91.9	92.3	92.9	87.7	93.7

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

ONTARIO
New Liskeard
Alfalfa Trial C
Expt. 9603
Seeded 1996

Code	Cultivar	1998 (kg/ha)		Tot98	Tot97	2yrTot
		Cut 1	Cut 2			
1001	SARANAC	8145	5764	13883	9474	23490
1074	ARROW	9043	5444	14606	9522	23916
1285	FORERUNNER	8968	5806	14844	9510	24302
1378	B44	8621	5838	14316	9837	23881
1379	CIBA_2888	8732	5417	14188	10535	24592
1381	3T44	8840	5833	14648	10093	24760
1383	MS95-06	8817	5431	14218	10355	24540
1386	9326	8716	5807	14428	9626	24062
1387	WINTERKING	8305	5923	14173	9761	23959
1388	GOLD_PLUS	8751	5691	14495	9238	23866
1389	DK142	8587	5633	14186	10363	24633
1390	CW-3347	8744	5926	14714	9431	24271
1395	PS95-01	9017	5542	14567	10210	24959
1396	PS95-02	8522	5983	14550	9791	24410
1397	PS95-03	8589	5753	14373	9768	24377
1398	CASCADIA_ML	8851	5535	14429	10424	24702
1399	PS95-05	8441	5578	14007	9657	23492
1400	YAL47	8372	6060	14357	9636	24059
1404	93-136	8789	5847	14586	9617	24296
9053	CENTURION	8300	5051	13441	10596	23885
900	Mean	8657	5693	14350	9872	24223
901	CV	6.6	6.9	5.1	5.6	4.1
905	MCV	7.8	8.2	6.0	6.7	4.8
902	LSD	678.1	466.6	864.1	658.8	1168.3
906	LSR	75.5	46.2	61.6	48.5	79.5
907	Pr>F(Trts)	0.7406	0.2398	0.7798	0.0145	0.8202
908	R_square	30.1	58.6	33.7	77.3	64.1

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

ONTARIO
Thunder Bay
Alfalfa Registration C
Expt. 7259
Seeded 1996

Code	Cultivar	1998 (kg/ha)		Tot98
		Cut 1	Cut 2	
1001	SARANAC	4637	2006	6653
1074	ARROW	4452	2031	6504
1285	FORERUNNER	4676	2122	6795
1378	B44	4123	1990	6109
1379	CIBA_2888	4172	2147	6327
1381	3T44	4283	2267	6542
1383	MS95-06	3891	1842	5721
1386	9326	4127	2093	6224
1387	WINTERKING	4197	2100	6295
1388	GOLD PLUS	4486	2081	6570
1389	DK142	4274	2173	6457
1390	CW-3347	4311	2253	6573
1395	PS95-01	4399	2191	6598
1396	PS95-02	4343	2076	6415
1397	PS95-03	4167	1955	6113
1398	CASCADIA_ML	3951	2094	6020
1399	PS95-05	3953	2312	6254
1400	YAL47	4370	2558	6937
1404	93-136	4451	2461	6911
9053	CENTURION	4590	2080	6669
900	Mean	4293	2142	6434
901	CV	5.9	7.6	5.6
905	MCV	7.0	9.0	6.6
902	LSD	301.4	193.4	426.4
906	LSR	38.4	27.0	35.1
907	Pr>F(Trts)	0.0011	0.0000	0.0012
908	R_square	67.9	73.9	67.3

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

ONTARIO
 Kapuskasing
 Alfalfa Test C
 Expt. 6332
 Seeded 1996

Cultivars	Code	1998 (kg/ha)		Tot98
		Cut 1	Cut 2	
CENTURION	9053	5425	2361	7786
CIBA2888	1379	5325	2267	7592
PS95-05	1399	5218	2263	7481
CW-3414	1389	5075	2159	7234
CW-2360	1387	4861	2271	7132
FORERUNNER	1285	4884	2202	7086
CW-3408	1388	4670	2406	7076
CW-2353	1386	4739	2250	6989
B44	1378	4853	2094	6947
YAL47	1400	4681	2195	6876
SARANAC	1001	4709	2128	6837
3T44	1381	4520	2136	6656
93-136	1404	4487	2157	6644
ARROW	1074	4464	2157	6621
PS95-03	1397	4457	2150	6607
PS95-04	1398	4464	2135	6599
PS95-02	1396	4514	2007	6521
MS95-06	1383	4289	2006	6295
PS95-01	1395	4338	1883	6221
CW-3347	1390	4219	1937	6156
MEAN/MOYENNE	900	4710	2158	6868
CV	901	13.8	13.2	12.7
LSD	902	917	404	1234
F	907	NS	NS	NS

RCBD arrangement, 4 blocks {1234}

HARVEST DATES : 07/01/98 08/11/98

ONTARIO
Elora
Alfalfa Registration Trial D
Expt. 2727
Seeded 1996

Code	Cultivar	1998 (kg/ha)		Cut 3	Tot98	Tot97	2yrTot
		Cut 1	Cut 2				
1001	SARANAC	6787	3781	2330	12905	9960	22867
1074	ARROW	6310	3382	1912	11567	9220	20780
1098	MAGNUM III	6486	3660	2347	12440	9994	22407
1248	JAVELIN	5933	3445	2121	11509	9630	21152
1375	ABT_205	6536	3618	2181	12299	10195	22417
1376	ABT_405	6418	3760	2303	12453	9787	22247
1377	SUPERCUTS	6344	3578	2259	12169	9601	21786
1380	C-3220	6083	3559	2208	11821	10201	22039
1382	ALPHA_2001	6085	3674	2315	12070	9635	21602
1384	MS95-07	6781	3593	2336	12755	10276	22989
1385	NY9012	6677	3525	2157	12444	9640	22030
1402	STAMPEDE	5979	3678	2411	12048	9844	21906
1403	92-31	6484	3681	2348	12560	9936	22498
1405	GH766QP	5884	3526	2184	11635	9431	21128
1406	PSC_10222	6269	3596	2201	12017	9616	21652
1434	53V08	6411	3826	2212	12355	10195	22577
1435	YAL_55	6344	4008	2509	12824	10218	23083
1436	5396	6602	3930	2347	12955	10101	23219
1437	WL326_GZ	4951	3549	2215	10765	9786	20481
9053	CENTURION	6373	3594	2143	12148	10099	22249
900	Mean	6287	3648	2252	12187	9868	22055
901	CV	14.2	5.1	5.4	8.7	5.3	6.2
905	MCV	17.0	6.1	6.5	10.4	6.3	7.4
902	LSD	1065.7	222.6	145.8	1269.1	617.2	1624.8
906	LSR	58.0	35.6	24.4	58.0	58.4	59.3
907	Pr>F(Trts)	0.6627	0.0029	0.0000	0.4524	0.2188	0.2691
908	R_square	39.1	66.0	68.5	41.7	62.8	53.8

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

ONTARIO
 New Liskeard
 Alfalfa Trial D
 Expt. 9604
 Seeded 1996

Code	Cultivar	1998 (kg/ha)		Tot98	Tot97	2yrTot
		Cut 1	Cut 2			
1001	SARANAC	9072	6073	15097	10414	25670
1074	ARROW	9397	6010	15481	11308	26596
1098	MAGNUM III	9132	5856	15076	10671	25488
1248	JAVELIN	8491	5773	14295	10393	24903
1375	ABT 205	9055	5995	15035	11227	26167
1376	ABT 405	8806	6058	14876	10052	25077
1377	SUPERCUTS	8983	6158	15155	10599	26073
1380	C-3220	8895	6147	15044	10901	25874
1382	ALPHA 2001	8677	5844	14500	10724	25018
1384	MS95-07	8679	6175	14814	10768	25794
1385	NY9012	8103	5987	14123	10474	24581
1402	STAMPEDE	9313	5818	15119	10581	26042
1403	92-31	9006	6084	15012	10548	25487
1405	GH766QP	8875	6441	15287	10425	25520
1406	PSC 10222	8953	5961	14907	10657	25680
1434	53V08	8908	5781	14778	10626	25427
1435	YAL 55	8361	5809	14097	10350	24331
1436	5396	8273	5825	14081	10437	24237
1437	WL326 GZ	8368	5867	14245	10166	24380
9053	CENTURION	8703	5937	14626	11342	25966
900	Mean	8803	5980	14782	10633	25416
901	CV	6.0	7.4	4.2	3.9	2.8
905	MCV	7.1	8.9	5.0	4.7	3.4
902	LSD	629.1	529.6	732.7	495.0	854.5
906	LSR	48.6	79.3	52.3	38.4	36.2
907	Pr>F(Trts)	0.0766	0.9311	0.0344	0.0021	0.0002
908	R_square	43.2	38.5	50.2	74.0	63.8

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

ONTARIO
 Thunder Bay
 Alfalfa Test D
 Expt. 7260
 Seeded 1996

Code	Cultivar	1998 (kg/ha)		Tot98
		Cut 1	Cut 2	
1001	SARANAC	4339	1823	6144
1074	ARROW	4638	2102	6734
1098	MAGNUM III	4754	2236	6968
1248	JAVELIN	4555	2157	6698
1375	ABT 205	4408	1872	6281
1376	ABT 405	4224	1875	6092
1377	SUPERCUTS	4756	2097	6853
1380	C-3220	4561	2322	6862
1382	ALPHA 2001	4516	2234	6743
1384	MS95-07	4262	1989	6248
1385	NY9012	4329	2040	6330
1402	STAMPEDE	4873	2516	7406
1403	92-31	4497	1965	6469
1405	GH766QP	4677	2198	6909
1406	PSC 10222	4576	2043	6631
1434	53V08	4557	2152	6709
1435	YAL 55	4886	2249	7163
1436	5396	4448	1974	6440
1437	WL326 GZ	4473	2044	6517
9053	CENTURION	4583	1894	6500
900	Mean	4546	2089	6635
901	CV	6.3	8.7	6.1
905	MCV	7.5	10.4	7.3
902	LSD	340.9	216.2	481.7
906	LSR	51.5	31.2	36.7
907	Pr>F(Trts)	0.0927	0.0001	0.0018
908	R_square	48.7	81.6	70.0

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

ONTARIO
 Kapuskasing
 Alfalfa Test D
 Expt. 6333
 Seeded 1996

Cultivars	Code	1998 (kg/ha)		Tot98
		Cut 1	Cut 2	
ABT405	1376	6642	3315	9957
93-110	1405	6029	3371	9400
SUPERCUTS	1377	5940	3294	9234
C-3220	1380	5825	3261	9086
WL326GZ	1437	5898	3121	9019
YAL54	1434	5881	3082	8963
MS95-07	1384	5879	3015	8894
92-31	1403	5803	2979	8782
YAL55	1435	5592	3065	8657
CENTURION	9053	5710	2942	8652
SARANAC	1001	5661	2952	8613
ARROW	1074	5566	2945	8511
NY9012	1385	5650	2816	8466
ALPHA	2001	5580	2853	8433
5396	1436	5576	2768	8344
PSC10222	1406	5549	2757	8306
MAGNUM III	1098	5465	2818	8283
JAVELIN	1248	5343	2901	8244
ABT205	1375	5384	2839	8223
STAMPEDE	1402	5233	2641	7874
MEAN/MOYENNE	900	5710	2987	8697
CV	901	11.1	11.6	10.3
LSD	902	900	490	1268
F	907	NS	NS	NS

RCBD arrangement, 4 blocks {1234}

HARVEST DATES : 07/01/98 08/11/98

ONTARIO
Huron Research Station
Alfalfa Registration A
Expt. 1187
Seeded 1997

Code	Cultivar	1998 (kg/ha)			Tot98
		Cut 1	Cut 2	Cut 3	
1001	SARANAC	5503	2160	2396	10083
1074	ARROW	4924	1855	2138	8898
1285	FORERUNNER	5665	2172	2428	10227
1410	CW-3433	4934	2188	2236	9457
1411	CW-4335	5172	2024	2374	9608
1412	CW-4403	4860	2540	2436	9748
1413	CW-4429	4935	1906	2291	9116
1414	PS9601	4825	2148	2239	9197
1416	PS9603	5456	2298	2358	10176
1418	PS9605	4665	1931	2095	8669
1419	93W03PM1	5336	2254	2406	9977
1420	93-39	4204	1856	2287	8409
1421	COLUMBIA2000	5920	2310	2324	10600
1422	FORECAST1000	5513	1770	2254	9557
1423	FORECAST3000	4718	1942	2201	8845
1427	MS93-1ML	5906	1949	2018	9825
1429	MS96-07	5617	2146	2172	9910
1431	94GG	4429	1877	2065	8411
1459	CW5407	5150	2160	2355	9702
1460	CW5426	4743	2038	2429	9178
1463	ARREST	4231	1917	2002	8126
9053	CENTURION	5211	2148	2430	9722
900	Mean	5087	2072	2270	9429
901	CV	8.5	16.2	8.5	7.8
905	MCV	10.1	19.1	10.1	9.2
902	LSD	513.8	396.2	229.1	870.9
906	LSR	29.9	51.4	52.7	35.2
907	Pr>F(Trts)	0.0000	0.2765	0.0196	0.0003
908	R_square	72.1	62.6	74.0	70.7

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

ONTARIO
Elora
Alfalfa Registration Trial A
Expt. 2741
Seeded 1997

Code	Cultivar	1998 (kg/ha)			Tot98
		Cut 1	Cut 2	Cut 3	
1001	SARANAC	5245	2816	2288	10311
1074	ARROW	4780	2463	2141	9430
1285	FORERUNNER	4684	2579	2254	9609
1410	CW-3433	4789	2835	2582	10276
1411	CW-4335	4980	2724	2498	10090
1412	CW-4403	5081	2888	2713	10680
1413	CW-4429	4619	2627	2252	9436
1414	PS9601	4851	2868	2513	10268
1416	PS9603	4842	2761	2465	10088
1418	PS9605	4461	2902	2500	9881
1419	93W03PM1	4959	2796	2370	10092
1420	93-39	4509	2766	2293	9575
1421	COLUMBIA2000	4901	2792	2514	10160
1422	FORECAST1000	4921	2567	2222	9751
1423	FORECAST3000	5023	2480	2210	9784
1427	MS93-1ML	4861	2409	2100	9319
1429	MS96-07	4763	2808	2485	10061
1431	94GG	4431	2240	1646	8304
1459	CW5407	4762	2654	2397	9797
1460	CW5426	4741	2809	2360	9899
1463	ARREST	3859	2311	2106	8303
9053	CENTURION	4808	2695	2342	9797
900	Mean	4767	2672	2330	9769
901	CV	6.5	6.3	6.9	4.6
905	MCV	7.6	7.5	8.2	5.5
902	LSD	364.1	199.7	191.1	534.2
906	LSR	26.3	30.2	17.9	22.5
907	Pr>F(Trts)	0.0001	0.0000	0.0000	0.0000
908	R_square	59.9	65.1	79.2	71.8

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

ONTARIO
 Kemptville
 Alfalfa Registration Trial A
 Expt. 3119
 Seeded 1997

Code	Cultivar	1998 (kg/ha)		Cut 3	Tot98
		Cut 1	Cut 2		
1001	SARANAC	6185	6825	4519	17529
1074	ARROW	6340	6848	5031	18219
1285	FORERUNNER	6829	6294	5756	18879
1410	CW-3433	6729	6908	6069	19707
1411	CW-4335	6268	6577	6710	19554
1412	CW-4403	6117	6327	4572	17016
1413	CW-4429	6413	6721	5137	18272
1414	PS9601	6631	6745	4546	17923
1416	PS9603	6659	6535	5180	18374
1418	PS9605	5851	6464	4854	17168
1419	93W03PM1	6792	6508	4797	18098
1420	93-39	6617	6504	5162	18282
1421	COLUMBIA2000	6697	6281	4811	17789
1422	FORECAST1000	5687	6641	4905	17232
1423	FORECAST3000	6844	6344	4953	18142
1427	MS93-1ML	6612	5951	5006	17568
1429	MS96-07	5982	5673	5386	17042
1431	94GG	5926	5644	4352	15923
1459	CW5407	5213	6811	4549	16573
1460	CW5426	6229	6924	4795	17948
1463	ARREST	5346	5947	4618	15911
9053	CENTURION	7133	6731	5433	19297
900	Mean	6323	6464	5052	17838
901	CV%	10.0	7.7	14.7	6.8
902	LSD	867.8	687.3	1023.5	1666.6

RCBD arrangement, 3 blocks {124}

ONTARIO
New Liskeard
Alfalfa Trial A
Expt. 9701
Seeded 1997

Code	Cultivar	1998 (kg/ha)		Tot98
		Cut 1	Cut 2	
1001	SARANAC	8456	6687	14943
1074	ARROW	8401	6746	15108
1285	FORERUNNER	8854	6810	15958
1410	CW-3433	8434	6928	15344
1411	CW-4335	8639	6921	15357
1412	CW-4403	8250	6321	14576
1413	CW-4429	8487	6483	14928
1414	PS9601	8578	7305	15915
1416	PS9603	8904	6852	15906
1418	PS9605	8435	6272	14743
1419	93W03PM1	7623	6161	13894
1420	93-39	7659	6411	14072
1421	COLUMBIA2000	8474	6950	15329
1422	FORECAST1000	9006	6448	15499
1423	FORECAST3000	8789	6506	15432
1427	MS93-1ML	10619	7721	18278
1429	MS96-07	8875	6883	15771
1431	94GG	8404	6259	14590
1459	CW5407	8028	6739	14728
1460	CW5426	8463	6360	15022
1463	ARREST	7643	6592	14237
1468	DK140	9839	7078	16752
9053	CENTURION	8837	6910	15656
900	Mean	8595	6711	15306
901	CV	4.8	8.3	4.6
905	MCV	5.7	9.8	5.4
902	LSD	490.4	659.8	833.1
906	LSR	16.4	42.3	19.0
907	Pr>F(Trts)	0.0000	0.0842	0.0000
908	R_square	78.7	47.3	73.7

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

ONTARIO
 Kapuskasing
 Alfalfa Test A
 Expt. 6335
 Seeded 1997

Cultivars	Code	1998 (kg/ha)		Tot98
		Cut 1	Cut 2	
COLUMBIA2000	1421	5442	3217	8659
CW-5426	1456	5086	3177	8263
93W03PM1	1419	4927	3281	8208
PS 9605	1418	4956	3171	8127
CW-3433	1410	4934	3010	7944
ARROW	1074	5034	2900	7934
MS96-07	1429	4887	3029	7916
CW-4429	1413	4867	2965	7832
FORERUNNER	1285	4987	2809	7796
CW-4335	1411	4834	2943	7777
MS93-IML	1427	4728	2923	7651
CENTURION	9053	4743	2838	7581
PS 9601	1414	4605	2932	7537
FORECAST3000	1423	4682	2850	7532
SARANAC	1001	4755	2755	7510
94GG	1431	4553	2915	7468
93-39	1420	4689	2740	7429
PS 9603	1416	4600	2704	7304
CW-5407	1459	4147	2729	6876
CW-4403	1412	4016	2665	6681
FORECAST1000	1422	4155	2311	6466
ARREST	1463	3655	2476	6131
MEAN/MOYENNE	900	4695	2879	7574
CV	901	12.9	13.4	12.5
LSD	902	856	545	1333
F	907	*	NS	NS

RCBD arrangement, 4 blocks {1234}

HARVEST DATES : 06/30/98 08/12/98

ONTARIO
Huron Research Station
Alfalfa Registration B
Expt. 1188
Seeded 1997

Code	Cultivar	1998 (kg/ha)			Tot98
		Cut 1	Cut 2	Cut 3	
1001	SARANAC	5405	1964	2713	10158
1074	ARROW	4983	1641	2512	9078
1285	FORERUNNER	5101	1623	2684	9526
1408	MARINER	4699	1709	2629	9040
1409	ZG9346	4675	1760	2400	8853
1415	PS9602	5041	2002	2553	9568
1417	PS9604	4793	1854	2576	9136
1425	A9303	4805	1965	2515	9262
1428	MS96-06	4571	1778	2500	8925
1434	53V08	4815	1484	2715	8988
1436	5396	5016	1736	2713	9427
1444	SAFEGUARD	4236	1624	2080	7894
1446	AVENGER	5159	1903	2609	9650
1448	PICKSD8925MF	5091	1685	2597	9471
1450	W110	4932	1875	2640	9390
1452	A9304	5161	1829	2639	9695
1454	ZG9643C	4661	1747	2269	8789
1456	ZN9543C	4558	1661	2472	8676
1458	DK143	4574	1978	2773	9242
1461	5347LH	4876	2005	2363	9231
1465	TMF MULTIPLI	5025	1801	2111	8910
9053	CENTURION	5301	2183	2666	10107
900	Mean	4885	1809	2533	9228
901	CV	8.2	12.2	6.7	6.4
905	MCV	9.7	14.5	7.9	7.5
902	LSD	476.0	261.6	200.1	694.8
906	LSR	40.7	37.4	28.9	30.7
907	Pr>F(Trts)	0.0308	0.0107	0.0000	0.0013
908	R_square	83.8	75.8	84.3	86.8

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

ONTARIO
Elora
Alfalfa Registration Trial B
Expt. 2742
Seeded 1997

Code	Cultivar	1998 (kg/ha)		Cut 3	Tot98
		Cut 1	Cut 2		
1001	SARANAC	5115	2677	2832	10670
1074	ARROW	4752	2459	2545	9737
1285	FORERUNNER	5030	2393	2662	10120
1408	MARINER	4913	2643	2780	10343
1409	ZG9346	4372	2495	2652	9526
1415	PS9602	5182	2687	2806	10681
1417	PS9604	5095	2574	2730	10403
1425	A9303	4594	2529	2701	9737
1428	MS96-06	4585	2806	2846	10247
1434	53V08	5078	2925	2660	10612
1436	5396	5250	2826	2902	11050
1442	A2793	4729	1946	2142	8760
1443	A2893	4344	2135	2289	8723
1444	SAFEGUARD	4369	2403	2674	9472
1446	AVENGER	4689	2616	2748	10061
1448	PICKSD8925MF	5135	2696	2803	10643
1450	W110	4993	2760	2890	10688
1452	A9304	5324	2744	3024	11157
1454	ZG9643C	4701	2438	2502	9648
1456	ZN9543C	4497	2547	2746	9832
1458	DK143	4805	2805	2940	10524
1461	5347LH	4706	2509	2557	9703
1465	TMF MULTIPLI	4435	2304	2551	9213
1466	A3294	5121	2520	2934	10594
9053	CENTURION	5117	2500	2557	10196
900	Mean	4837	2557	2699	10094
901	CV	6.7	5.1	6.1	4.6
905	MCV	8.0	6.0	7.2	5.4
902	LSD	385.3	154.5	193.5	548.2
906	LSR	39.3	15.8	21.9	22.5
907	Pr>F(Trts)	0.0000	0.0000	0.0000	0.0000
908	R_square	73.6	82.0	79.5	80.9

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

ONTARIO
 Kemptville
 Alfalfa Registration Trial B
 Expt. 3120
 Seeded 1997

Code	Cultivar	1998 (kg/ha)		Cut 3	Tot98
		Cut 1	Cut 2		
1001	SARANAC	6158	4056	4840	15054
1074	ARROW	6748	4525	4709	15981
1285	FORERUNNER	7160	4694	5320	17175
1408	MARINER	6509	4374	4749	15633
1409	ZG9346	6671	4402	5297	16369
1415	PS9602	5978	4444	4292	14714
1417	PS9604	6075	4310	3599	13985
1425	A9303	6584	4435	5258	16277
1428	MS96-06	6042	4361	5161	15564
1434	53V08	6620	4348	4622	15590
1436	5396	6278	4538	4920	15737
1444	SAFEGUARD	6458	4395	4939	15792
1446	ABI 9122	6381	4280	4836	15497
1448	PICKSD8925MF	6293	4569	4480	15342
1450	W110	6582	4524	5039	16145
1452	A9304	6218	4381	4634	15233
1454	ZG9643C	6553	3955	4548	15055
1456	ZN9543C	6450	4222	4851	15523
1458	DK143	6573	4599	5067	16239
1461	5347LH	6350	4228	4623	15201
1465	TMF MULTIPLI	6304	3762	4078	14144
9053	CENTURION	7034	4591	5763	17387
900	Mean	6455	4363	4801	15620
901	CV%	8.4	7.7	16.8	7.6
902	LSD	638.0	394.6	951.7	1398.9

RCBD arrangement, 4 blocks {1234}

ONTARIO
 New Liskeard
 Alfalfa Trial B
 Expt. 9702
 Seeded 1997

Code	Cultivar	1998 (kg/ha)		Tot98
		Cut 1	Cut 2	
1001	SARANAC	9333	6101	15448
1074	ARROW	8841	6352	15260
1285	FORERUNNER	9479	6497	15949
1408	MARINER	9226	6274	15583
1409	ZG9346	9034	6203	15270
1415	PS9602	7960	5827	13682
1417	PS9604	9072	6109	15129
1425	A9303	9071	6461	15547
1428	MS96-06	8274	6371	14628
1434	53V08	8354	6051	14476
1436	5396	8902	6143	15052
1444	SAFEGUARD	8825	5942	14763
1446	ABI_9122	8763	6399	15131
1448	PICKSD8925MF	9142	6050	15286
1450	W110	8966	6221	15059
1452	A9304	9190	7055	16134
1454	ZG9643C	8803	6222	15059
1456	ZN9543C	8403	6152	14567
1458	DK143	8740	6248	14927
1461	5347LH	9561	6793	16448
1465	TMF MULTIPLI	8635	6582	15244
1466	A3294	9371	6544	15823
9053	CENTURION	9313	6241	15631
900	Mean	8924	6297	15222
901	CV	5.6	6.9	4.8
905	MCV	6.6	8.1	5.7
902	LSD	591.1	510.9	860.2
906	LSR	36.9	41.6	31.1
907	Pr>F(Trts)	0.0015	0.0736	0.0012
908	R_square	55.8	50.5	57.7

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

ONTARIO
Kapuskasing
Alfalfa Test B
Expt. 6336
Seeded 1997

Cultivars	Code	1998 (kg/ha)		Tot98
		Cut 1	Cut 2	
A_9303	1425	4929	3252	8181
DK143	1458	4916	3243	8159
AFFINITY+Z	1409	5260	2775	8035
ZN9543C	1456	5056	2915	7971
W110	1450	4822	3089	7911
5396	1436	4748	3071	7819
ABI 9122	1446	4970	2814	7784
SAFEGUARD	1444	5063	2678	7741
CENTURION	9053	4912	2760	7672
FORERUNNER	1285	4795	2853	7648
MULTIPLIER	1465	4787	2828	7615
PS 9602	1415	4789	2750	7539
MARINER	1408	4741	2722	7463
3L23	1448	4664	2747	7411
ZG9643C	1454	4742	2524	7266
ARROW	1074	4507	2672	7179
MS96-06	1428	4421	2726	7147
YAL 54	1434	4494	2652	7146
A 9304	1452	4667	2452	7119
SARANAC	1001	4219	2668	6887
PS 9604	1417	4177	2564	6741
5347LH	1461	3996	2674	6670
MEAN/MOYENNE	900	4713	2792	7505
CV	901	13.9	13.1	12.0
LSD	902	925	516	1271
F	907	NS	NS	NS

RCBD arrangement, 4 blocks {1234}

HARVEST DATES : 06/30/98

08/11/98

ONTARIO
Huron Research Station
Alfalfa Registration C
Expt. 1189
Seeded 1997

Code	Cultivar	1998 (kg/ha)		Cut 3	Tot98
		Cut 1	Cut 2		
1001	SARANAC	4913	1361	2452	8720
1074	ARROW	4906	1244	2143	8291
1098	MAGNUM III	4383	1057	2404	7846
1248	JAVELIN	4170	1196	2269	7620
1285	FORERUNNER	4440	1004	2137	7600
1424	92-28	4083	1273	2283	7672
1426	A9305	3960	1051	2096	7041
1430	ZG9431	4350	1013	2070	7478
1432	A2693	4768	1240	2443	8426
1433	A2993	4746	1101	1751	7572
1435	YAL 55	4249	1148	2405	7843
1437	WL326 GZ	3893	1026	1996	6878
1445	TRUENORTH	4158	1142	2247	7607
1447	MILLENNIUM	4285	1001	2223	7522
1449	SPUR	4349	1319	1982	7551
1451	A9118	4394	1122	2099	7609
1453	ZB9546	4013	860	2037	6968
1455	ZG9644C	4346	1215	1895	7417
1457	SF9001	4286	1227	2284	7825
1462	NS3317	4410	1211	2372	7971
1464	TMF GENERATI	4208	1160	2357	7733
9053	CENTURION	4606	1081	2481	8206
900	Mean	4360	1139	2201	7700
901	CV	9.9	13.3	8.5	6.8
905	MCV	11.7	15.8	10.0	8.1
902	LSD	510.8	179.4	220.4	622.5
906	LSR	50.1	35.8	30.2	33.8
907	Pr>F(Trts)	0.0532	0.0038	0.0000	0.0010
908	R_square	83.9	74.6	68.6	87.7

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

ONTARIO
 Elora
 Alfalfa Registration Trial C
 Expt. 2743
 Seeded 1997

Code	Cultivar	1998 (kg/ha)		Cut 3	Tot98
		Cut 1	Cut 2		
1001	SARANAC	4953	2901	2345	10164
1074	ARROW	4678	2588	2152	9442
1098	MAGNUM III	4818	2920	2445	10172
1248	JAVELIN	4747	2851	2314	9906
1285	FORERUNNER	4783	2798	2324	9927
1424	92-28	4858	2937	2337	10118
1426	A9305	4651	2709	2373	9714
1430	ZG9431	4504	2638	2214	9346
1432	A2693	5082	3092	2433	10549
1433	A2993	4614	2834	2347	9859
1435	YAL 55	4871	2959	2414	10284
1437	WL326 GZ	5104	2868	2415	10357
1445	TRUENORTH	4695	2819	2380	9869
1447	MILLENNIUM	4975	2892	2407	10162
1449	SPUR	4278	2604	2196	9087
1451	A9118	4964	2727	2401	10126
1453	ZB9546	4498	2783	2312	9611
1455	ZG9644C	3936	2406	2205	8603
1457	SF9001	4647	2698	2127	9415
1462	NS3317	4526	2726	2292	9579
1464	TMF GENERATI	4897	2845	2239	10041
1467	A3494	4656	2661	2068	9411
9053	CENTURION	5104	2839	2287	10218
900	Mean	4732	2787	2306	9824
901	CV	6.5	4.9	7.7	4.6
905	MCV	7.6	5.8	9.0	5.5
902	LSD	360.7	161.9	208.4	538.7
906	LSR	30.9	23.6	55.3	27.7
907	Pr>F(Trts)	0.0003	0.0000	0.1738	0.0000
908	R_square	53.7	70.6	55.6	63.3

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

ONTARIO
 Kemptville
 Alfalfa Registration Trial C
 Expt. 3121
 Seeded 1997

Cultivar	1998 (kg/ha)			
	Cut 1	Cut 2	Cut 3	Tot98
1001 SARANAC	8312	4915	5795	19023
1074 ARROW	8408	4712	5843	18963
1098 MAGNUM III	7947	4862	6205	19015
1248 JAVELIN	8409	4701	5707	18816
1285 FORERUNNER	7768	4909	5762	18440
1424 92-28	7631	4764	5750	18145
1426 A9305	7442	4463	6059	17963
1430 ZG9431	8354	4782	5597	18734
1432 A2693	7753	4510	6183	18446
1433 A2993	7828	4762	5906	18496
1435 YAL 55	7257	4756	5493	17505
1437 WL326 GZ	7690	4746	5964	18399
1445 ABI 9141	7485	4923	6039	18447
1447 MILLENNIUM	8019	4972	5596	18587
1449 SPUR	6827	4648	5907	17382
1451 A9118	8237	4882	5952	19072
1453 ZB9546	7248	4860	5842	17949
1455 ZG9644C	7232	4652	5801	17686
1457 SF9001	8193	5144	5762	19099
1462 NS3317	7435	4912	6116	18463
1464 TMF GENERATI	8456	4939	5604	18999
9053 CENTURION	8455	4703	5757	18915
900 Mean	7836	4796	5847	18479
901 CV	9.3	6.5	9.1	5.8
902 LSD	864.4	369.5	625.7	1271.5

RCBD arrangement, 4 blocks {1234}

ONTARIO
 New Liskeard
 Alfalfa Trial C
 Expt. 9703
 Seeded 1997

Code	Cultivar	1998 (kg/ha)		Tot98
		Cut 1	Cut 2	
1001	SARANAC	8268	6032	14381
1074	ARROW	8174	6228	14373
1098	MAGNUM III	7986	6391	14389
1248	JAVELIN	8301	6565	14876
1285	FORERUNNER	8278	6032	14363
1424	92-28	8514	6539	15065
1426	A9305	8404	6327	14578
1430	ZG9431	7981	6231	14183
1432	A2693	8041	6085	14039
1433	A2993	8488	5996	14415
1435	YAL 55	8050	6416	14449
1437	WL326 GZ	8037	6340	14294
1445	ABI 9141	8409	6236	14727
1447	MILLENNIUM	7909	6089	14083
1449	SPUR	8153	5833	14017
1451	A9118	8726	6405	15115
1453	ZB9546	8398	6794	15297
1455	ZG9644C	8034	6292	14307
1457	SF9001	8679	6210	14922
1462	NS3317	8013	6076	14065
1464	TMF GENERATI	8292	6450	14771
1467	A3494	9073	6089	15225
9053	CENTURION	8908	6656	15498
900	Mean	8309	6275	14584
901	CV	5.2	6.3	4.0
905	MCV	6.1	7.5	4.7
902	LSD	509.9	469.7	687.9
906	LSR	43.8	48.9	46.4
907	Pr>F(Trts)	0.0142	0.1883	0.0135
908	R_square	57.9	62.9	71.1

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

ONTARIO
 Kapuskasing
 Alfalfa Test C
 Expt. 6337
 Seeded 1997

Cultivars	Code	1998 (kg/ha)		Tot98
		Cut 1	Cut 2	
A9118	1451	5975	3618	9593
MAGNUM III	1098	5676	3757	9433
SARANAC	1001	5690	3446	9136
NS3317	1462	5406	3591	8997
JAVELIN	1248	5506	3330	8836
A2693	1432	5566	3223	8789
ZG9431	1430	5422	3356	8778
WL326 GZ	1437	5273	3394	8667
ZB9546	1453	5470	3183	8653
CENTURION	9053	5476	3168	8644
ARROW	1074	5460	3174	8634
A9305	1426	5344	3119	8463
FORERUNNER	1285	5261	3124	8385
SF9001	1457	5309	3044	8353
ZG9644C	1455	5174	3168	8342
92-28	1424	5041	3194	8235
3L21	1447	5042	3102	8144
YAL 55	1334	4789	3331	8120
ABI 9141	1445	5051	3065	8116
A2993	1433	4711	2772	7483
GENERATION	1464	4728	2697	7425
SPUR	1449	4574	2733	7307
MEAN/MOYENNE	900	5270	3209	8479
CV	901	13.7	15.5	13.9
LSD	902	1018	701	1664
F	907	NS	NS	NS

RCBD arrangement, 4 blocks {1234}

HARVEST DATES : 06/30/98 08/12/98

ONTARIO
 Elora
 Alfalfa Strain Trial, Early Harvest
 Expt. 2734
 Seeded 1996

Code	Cultivar	1998 (kg/ha)		Cut 3	Tot98	Tot97	2yrTot
		Cut 1	Cut 2				
1001	SARANAC	6161	3191	1262	10614	6669	17283
1074	ARROW	5805	2849	1029	9683	5484	15166
1285	FORERUNNER	6145	2811	1074	10029	5605	15635
1422	FORECAST1000	5847	2925	1134	9905	6075	15981
1423	FORECAST3000	6217	2700	1052	9969	5076	15045
9002	120	5760	2415	912	9087	5810	14896
9053	CENTURION	5784	2940	1218	9942	5966	15909
8	DS9561	6492	3030	1309	10831	6192	17023
9	DS9579	6342	3040	1295	10677	6852	17529
10	DS9482	6145	2974	1164	10283	6028	16311
11	DS9565	5880	3276	1538	10694	6089	16783
900	Mean	6053	2923	1180	10156	5986	16142
901	CV	7.5	7.0	14.4	5.4	6.8	5.3
905	MCV	9.0	8.4	17.3	6.4	8.1	6.3
902	LSD	546.8	246.3	204.5	653.6	486.2	1022.3
906	LSR	74.7	28.6	32.7	37.5	27.4	38.8
907	Pr>F(Trts)	0.3282	0.0002	0.0015	0.0025	0.0001	0.0005
908	R_square	41.3	82.6	78.2	78.7	85.5	83.7

RCBD arrangement, 4 blocks {1234}

ONTARIO
 Elora
 Alfalfa Strain Trial, Normal Harvest
 Expt. 2735
 Seeded 1996

Code	Cultivar	1998 (kg/ha)			Tot98	Tot97	2yrTot
		Cut 1	Cut 2	Cut 3			
1001	SARANAC	6645	3261	1210	11116	8692	19807
1074	ARROW	5734	2602	901	9236	6557	15793
1285	FORERUNNER	5834	2576	930	9341	6515	15856
1422	FORECAST1000	5905	2978	988	9870	6908	16778
1423	FORECAST3000	5926	2655	1009	9589	6330	15920
9002	120	6409	2744	974	10127	7205	17332
9053	CENTURION	6266	2722	1019	10008	7236	17244
8	DS9561	5748	2840	1104	9692	7034	16726
9	DS9579	6225	3215	1246	10687	7905	18592
10	DS9482	6391	3222	1206	10819	7642	18461
11	DS9565	6103	2993	1229	10324	7532	17857
900	Mean	6108	2892	1074	10074	7232	17306
901	CV	7.2	11.2	10.4	7.7	10.6	8.6
905	MCV	8.7	13.4	12.5	9.3	12.8	10.3
902	LSD	531.3	388.0	134.2	932.9	923.0	1776.8
906	LSR	58.3	56.7	38.8	49.6	39.1	44.3
907	Pr>F(Trts)	0.0901	0.0242	0.0002	0.0266	0.0063	0.0095
908	R_square	65.5	72.0	78.0	72.9	69.7	72.0

RCBD arrangement, 4 blocks {1234}

ONTARIO
 Elora
 Alfalfa Strain Trial, Late Harvest
 Expt. 2737
 Seeded 1996

Code	Cultivar	1998 (kg/ha)		Cut 3	Tot98	Tot97	2yrTot
		Cut 1	Cut 2				
1001	SARANAC	7897	3449	1411	12757	8687	21445
1074	ARROW	6772	2738	1035	10545	7184	17728
1285	FORERUNNER	6622	3038	1337	10997	7644	18641
1422	FORECAST1000	6940	2960	1189	11090	7432	18522
1423	FORECAST3000	6630	3137	1340	11106	7386	18492
9002	120	6789	2823	1106	10719	7397	18116
9053	CENTURION	6889	2980	1297	11166	7335	18501
8	DS9561	6516	3146	1339	11001	7311	18312
9	DS9579	7049	3252	1371	11671	7983	19654
10	DS9482	6525	2849	1303	10676	7425	18101
11	DS9565	6838	2986	1356	11180	7121	18301
900	Mean	6861	3033	1280	11173	7537	18710
901	CV	7.6	7.0	10.0	6.2	9.9	6.6
905	MCV	9.1	8.4	12.0	7.4	11.9	8.0
902	LSD	625.5	256.1	153.4	827.4	897.7	1492.3
906	LSR	45.3	36.0	40.8	37.4	57.3	40.2
907	Pr>F(Trts)	0.0497	0.0027	0.0042	0.0081	0.2181	0.0166
908	R_square	70.0	68.0	72.0	73.2	56.5	71.5

RCBD arrangement, 4 blocks {1234}

ONTARIO
 New Liskeard
 Alfalfa Persistence Trial
 Expt. 5018
 Seeded 1994

Code	Cultivar	1998 (kg/ha)		Tot98
		Cut 1	Cut 2	
1001	SARANAC	6638	4566	11282
1039	EXCALIBUR	7476	4487	11954
1110	ECHO	7178	4212	11538
1153	INCENTIVE	8072	4325	12379
1182	20-20	8149	4639	12836
1185	630	7420	4873	12153
1186	MAJESTIC	7915	4493	12287
1188	MULTI-PLIER	9069	4492	13598
1191	5246	7662	4690	12241
1192	WL_333	7006	4526	11542
1195	LEGEND_2	8266	4502	12821
1196	ENCORE	6667	4552	11224
1198	ALFALEAF	8755	4526	13168
1211	CLASS	6546	3989	10466
1212	TRIDENT_II	7588	4278	11929
1250	VIKING_I	8745	4511	13360
1280	GALA	7969	4701	12778
1292	ALFAGRAZE	6681	4713	11520
1298	5312	9761	4940	14488
1330	EVOLUTION	8278	4584	12846
1342	PS94-01	7494	4590	12142
1345	PS94-04	6842	4559	11453
1354	STERLING	5975	3940	10003
1365	RUSHMORE	7385	4815	12190
1372	A9010	8340	4506	12951
1373	A9107	6957	4796	11597
9002	120	7966	4623	12539
9072	IMPACT	8498	4513	12869
900	Mean	7700.6	4529.1	12229.7
901	CV	11.7	4.5	8
907	Pr>F(Trts)	0.1601	0.0085	0.1154
908	R_square	65	76.9	65.9

Systematic control arrangement

ONTARIO
 Kapuskasing
 Alfalfa Persistence Trial
 Expt. 6324
 Seeded 1994

Code	Cultivar	1998 (kg/ha)		Tot98
		Cut 1	Cut 2	
1001	SARANAC	4852	2940	7721
1039	EXCALIBUR	4789	2620	7371
1110	ECHO	4680	2721	7388
1153	INCENTIVE	4754	3001	7707
1182	20-20	4708	3000	7661
1185	630	4428	2480	6916
1186	MAJESTIC	5203	3124	8336
1188	MULTI-PLIER	4814	2781	7608
1191	5246	4946	2977	7989
1192	WL_333	4655	2385	7045
1195	LEGEND_2	5264	2865	8115
1196	ENCORE	4562	2555	7117
1198	ALFALEAF	4658	2815	7444
1211	CLASS	4347	2704	7029
1212	TRIDENT_II	4715	2718	7450
1250	VIKING_I	5150	2763	7868
1280	GALA	4686	2939	7652
1292	ALFAGRAZE	4391	2060	6491
1298	5312	4935	2879	7848
1330	EVOLUTION	4966	2703	7653
1342	PS94-01	4864	2548	7443
1345	PS94-04	4678	2856	7593
1354	STERLING	4722	2538	7232
1365	RUSHMORE	4745	2540	7232
1372	A9010	4265	2479	6844
1373	A9107	4658	2668	7373
9002	120	4413	2499	6892
9072	IMPACT	5067	2571	7628
900	Mean	4747	2705	7452
901	CV	6.0	9.5	6.1
907	Pr>F(Trts)	0.2194	0.1425	0.1434
908	R_square	93.6	87.7	93.4

Systematic control arrangement

ONTARIO
 Elora
 Alfalfa Persistence Trial
 Expt. 5021
 Seeded 1995

Code	Cultivar	1998 (kg/ha)			Tot98
		Cut 1	Cut 2	Cut 3	
1001	SARANAC	5639	2947	1470	10165
1039	EXCALIBUR	5137	2916	1550	9585
1129	2980	5137	2093	1572	8826
1228	PS90-3	5634	2648	1371	9707
1237	DK133	5443	2646	1728	9850
1246	MULTICHOICE	5761	2849	1588	10247
1248	JAVELIN	4736	2766	1571	8931
1272	CHOICE	5171	2472	1355	9095
1276	FS444	5203	2682	1689	9441
1298	5312	5496	2327	1615	9363
900	Mean	5336.6	2634.6	1550.9	9521.1
901	CV	8.4	6.7	12.9	6.4
907	Pr>F(Trts)	0.4367	0.0133	0.2261	0.3853
908	R_square	73.2	94.9	94.7	91.9

Systematic control arrangement

ONTARIO
 New Liskeard
 Alfalfa Persistence Trial
 Expt. 5024
 Seeded 1995

Code	Cultivar	1998 (kg/ha)		Tot98
		Cut 1	Cut 2	
1001	SARANAC	7906	3793	12036
1039	EXCALIBUR	9541	3973	13041
1129	2980	8029	4549	12807
1228	PS90-3	7685	4850	12272
1237	DK133	7950	4869	12809
1246	MULTICHOICE	8124	5499	12902
1248	JAVELIN	8400	4191	12712
1272	CHOICE	8822	4630	13328
1276	FS444	8316	3072	11905
1298	5312	8748	4340	13476
900	Mean	8352.2	4376.7	12728.9
901	CV	10.8	9.9	9.4
907	Pr>F(Trts)	0.5635	0.067	0.0135
908	R_square	58.7	82.5	85.8

Systematic control arrangement

ONTARIO
 Thunder Bay
 Alfalfa Persistence Trial
 Expt. 5025
 Seeded 1995

Code	Cultivar	1998 (kg/ha)		Tot98
		Cut 1	Cut 2	
1001	SARANAC	3691	921	4470
1039	EXCALIBUR	3395	668	4153
1129	2980	3674	593	4345
1228	PS90-3	3796	604	4279
1237	DK133	4116	934	5045
1246	MULTICHOICE	4292	774	5055
1248	JAVELIN	3603	824	4507
1272	CHOICE	3661	794	4529
1276	FS444	3388	657	4060
1298	5312	3617	1017	4576
900	Mean	3723	779	4502
901	CV	14.9	10.4	12.0
907	Pr>F(Trts)	0.4489	0.0108	0.1529
908	R_square	68.7	96.0	82.4

Systematic control arrangement

ONTARIO
Elora
Red Clover
Expt. 2738
Seeded 1996

Code	Cultivar	1998 (kg/ha)		Tot98	Tot97	2yrTot
		Cut 1	Cut 2			
4017	FLOREX	6433	1656	8135	8912	16829
4034	PERSIST	6541	1837	8321	10024	18600
4036	ATLAS	5973	2022	8005	9706	17344
4055	WALTER	5979	2046	8006	9389	17541
4057	RAM	6065	1998	8068	9095	17186
4059	CONCORDE	6059	2043	8133	9711	17757
4079	AC_ENDURE	6412	2758	9155	9311	18712
900	Mean	6209	2051	8260	9450	17710
901	CV	9.8	12.9	9.9	6.2	6.3
905	MCV	12.1	15.9	12.3	7.7	7.7
902	LSD	752.0	327.1	1012.8	724.2	1372.4
906	LSR	132.4	29.7	88.0	65.1	72.9
907	Pr>F(Trts)	0.7290	0.0057	0.4667	0.2074	0.2216
908	R_square	52.6	84.3	61.7	64.9	61.0

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

ONTARIO
 New Liskeard
 Red Clover
 Expt. 9610
 Seeded 1996

Code	Cultivar	1998 (kg/ha)		Tot98	Tot97	2yrTot
		Cut 1	Cut 2			
4017	FLOREX	6379	5780	12159	8412	20570
4034	PERSIST	6104	5532	11636	9672	21308
4036	ATLAS	5231	5643	10874	9580	20454
4055	WALTER	5634	6525	12159	9801	21960
4057	RAM	5078	5705	10783	8987	19770
4059	CONCORDE	5762	5735	11496	8122	19619
4079	AC_ENDURE	5118	5921	11039	9449	20488
900	Mean	5615	5834	11449	9146	20596
901	CV	6.2	4.9	4.7	12.0	5.7
905	MCV	7.6	6.0	5.8	14.7	6.9
902	LSD	427.7	351.2	660.0	1346.6	1427.4
906	LSR	32.9	35.4	48.0	80.2	61.0
907	Pr>F(Trts)	0.0002	0.0029	0.0056	0.2551	0.1209
908	R_square	76.7	80.4	75.3	34.5	54.9

RCBD arrangement, 4 blocks {1234}

ONTARIO
 Thunder Bay
 Red Clover
 Expt. 7273
 Seeded 1996

Code	Cultivar	1998 (kg/ha)		
		Cut 1	Cut 2	Tot98
4017	FLOREX	2931	556	3487
4034	PERSIST	2735	498	3233
4036	ATLAS	2286	857	3143
4055	WALTER	2525	699	3225
4057	RAM	2343	1029	3372
4059	CONCORDE	2793	803	3597
4079	AC_ENDURE	2011	1250	3260
900	Mean	2518	813	3331
901	CV	8.6	17.7	8.4
905	MCV	10.6	21.7	10.3
902	LSD	266.4	176.5	343.0
906	LSR	29.0	23.5	75.6
907	Pr>F(Trts)	0.0001	0.0000	0.2885
908	R_square	77.6	82.8	48.5

RCBD arrangement, 4 blocks {1234}

ONTARIO
 New Liskeard
 Red Clover
 Expt. 9712
 Seeded 1997

Code	Cultivar	1998 (kg/ha)		Tot98
		Cut 1	Cut 2	
4017	FLOREX	7667	6227	13894
4034	PERSIST	7723	6393	14117
4036	ATLAS	7631	6655	14286
4055	WALTER	7814	6356	14170
4057	RAM	7659	6569	14228
4059	CONCORDE	7720	6724	14444
4074	PRIMA	7402	6417	13819
4079	AC ENDURE	7703	6450	14153
4080	TEMPUS	6946	7033	13979
4081	RC8702	7424	7219	14643
900	Mean	7569	6604	14173
901	CV	5.2	9.6	5.7
905	MCV	6.2	11.5	6.8
902	LSD	473.0	761.5	970.1
906	LSR	54.5	76.8	117.7
907	Pr>F(Trts)	0.1425	0.4735	0.9344
908	R_square	49.7	31.8	23.1

RCBD arrangement, 4 blocks {1234}

ONTARIO
 Elora
 White Clover with Orchardgrass
 Expt. 2718
 Seeded 1995

Code	Cultivar	1998 (kg/ha)				Tot98	Tot97	Tot96	3yrTot
		Cut 1	Cut 2	Cut 3	Cut 4				
8004	MERIT	2763	336	523	167	3789	3008	5129	11926
8005	SACRAMENTO	2837	342	556	145	3880	2824	4971	11676
8007	CAL LADINO	2751	302	543	178	3774	3300	4994	12068
8010	CANOPY	2628	307	514	151	3601	2798	4527	10926
8011	SONJA	2935	284	430	131	3781	2907	4572	11259
8012	OSCEOLA	2846	342	473	204	3865	2859	5303	12026
8013	SHASTA	2788	338	583	175	3883	2595	4946	11424
8014	ALICE	3604	343	546	174	4666	2996	4941	12603
8015	WHITE_DUTCH	3547	336	565	166	4614	3197	4741	12552
8016	CRISTAL	3349	392	588	212	4541	3316	5521	13378
8017	KOPU	3631	253	348	112	4343	2654	4221	11217
8018	WILL	3813	292	518	156	4779	3086	6218	14083
8019	CW-9300	2851	369	558	149	3927	3038	4664	11630
8020	TOOMA	2876	266	379	147	3668	2845	4901	11414
900	Mean	3087	322	509	162	4079	2959	4975	12013
901	CV	9.1	13.7	14.7	22.8	7.3	10.1	9.5	5.3
905	MCV	10.9	16.4	17.6	27.3	8.8	12.1	11.3	6.4
902	LSD	336.6	52.7	89.7	44.3	358.3	359.2	564.6	769.8
906	LSR	28.4	37.8	37.3	44.5	30.4	49.8	28.3	24.4
907	Pr>F(Trts)	0.0000	0.0027	0.0004	0.0425	0.0000	0.0340	0.0002	0.0000
908	R_square	84.0	88.1	88.7	63.8	89.7	64.6	67.9	87.9

RCBD arrangement, 4 blocks {1234}

ONTARIO
 New Liskeard
 Trefoil with Timothy
 Expt. 9407
 Seeded 1994

Code	Cultivar	1998 (kg/ha)		Tot98	Tot97	2yrTot
		Cut 1	Cut 2			
7001	LEO	7849	2764	10613	10028	20641
7003	EMPIRE	7572	2848	10420	9155	19576
7008	DAWN	8711	3249	11960	10093	22053
7034	BULL	9463	3299	12761	10681	23442
7038	WELLINGTON	8876	3545	12420	10714	23134
7039	01-1984-2	8777	3288	12064	10812	22876
900	Mean	8541	3165	11707	10247	21954
901	CV	8.9	12.7	8.3	3.6	5.6
905	MCV	11.0	15.7	10.3	4.4	6.9
902	LSD	943.6	498.3	1209.4	455.8	1520.4
906	LSR	49.9	63.8	51.7	27.5	39.3
907	Pr>F(Trts)	0.0298	0.1078	0.0180	0.0001	0.0025
908	R_square	63.2	49.7	65.1	81.2	72.0

RCBD arrangement, 4 blocks {1234}

ONTARIO
 Kapuskasing
 Trefoil with Timothy
 Expt. 6525
 Seeded 1994

Cultivars	Code	1998 (kg/ha)		Tot98
		Cut 1	Cut 2	
BULL	7034	4286	2417	6703
DAWN	7008	4473	2223	6696
01-1984-02	7039	4166	2461	6627
01-1984-01	7038	4089	2461	6550
EMPIRE	7003	4520	1976	6496
LEO	7001	3698	1712	5410
MEAN/MOYENNE	900	4029	2215	6244
CV	901	5.5	8.4	5.3
LSD	902	316	266	476
F	907	**	**	**

RCBD arrangement, 4 blocks {1234}

HARVEST DATES : 07/06/98 08/18/98

ONTARIO
 Thunder Bay
 Trefoil with Timothy
 Expt. 7252
 Seeded 1995

Code	Cultivar	1998 (kg/ha)		Tot98
		Cut 1	Cut 2	
7001	LEO	2439	1100	3539
7003	EMPIRE	3364	764	4128
7008	DAWN	3723	1027	4750
7031	OAC BRIGHT	3113	1037	4150
7034	BULL	2874	969	3843
7038	WELLINGTON	2906	1094	4000
7039	01-1984-2	2947	1218	4165
900	Mean	3052	1030	4082
901	CV	12.5	18.5	10.2
905	MCV	15.4	22.7	12.5
902	LSD	468.9	233.3	510.7
906	LSR	36.5	51.4	42.2
907	Pr>F(Trts)	0.0059	0.0920	0.0273
908	R_square	64.1	45.0	57.2

RCBD arrangement, 4 blocks {1234}

ONTARIO
 Kapuskasing
 Trefoil with Timothy
 Expt. 6578
 Seeded 1995

Cultivars	Code	1998 (kg/ha)		Tot98
		Cut 1	Cut 2	
EMPIRE	7003	5325	2216	7541
01-1984-2	7039	4846	2516	7362
DAWN	7008	4772	2424	7196
BULL	7034	4682	2477	7159
RC4SYN2	7031	4754	2231	6985
01-1984-1	7038	4566	2343	6909
LEO	7001	4545	1824	6369
MEAN/MOYENNE	900	4784	2290	7074
CV	901	5.3	8.0	4.7
LSD	902	375	271	494
F	907	**	**	**

RCBD arrangement, 4 blocks {1234}

HARVEST DATES : 07/08/98 08/17/98

ONTARIO
 New Liskeard
 Trefoil with Timothy
 Expt. 9611
 Seeded 1996

Code	Cultivar	1998 (kg/ha)		Tot98	Tot97	2yrTot
		Cut 1	Cut 2			
7001	LEO	9544	5611	15155	12464	27619
7003	EMPIRE	9251	4647	13899	11875	25774
7028	FERGUS	10835	5354	16190	11816	28005
7034	BULL	10481	5568	16050	12585	28634
7038	WELLINGTON	9949	6098	16046	12545	28591
7039	01-1984-2	10681	6165	16847	12720	29566
900	Mean	10124	5574	15698	12334	28032
901	CV	5.6	6.1	4.2	5.6	3.0
905	MCV	7.0	7.6	5.2	7.0	3.7
902	LSD	704.3	422.6	810.6	857.6	1030.9
906	LSR	44.5	27.8	27.5	94.9	27.2
907	Pr>F(Trts)	0.0062	0.0002	0.0003	0.3327	0.0003
908	R_square	67.4	78.8	78.0	41.3	78.1

RCBD arrangement, 4 blocks {1234}

ONTARIO
 Thunder Bay
 Trefoil with Timothy
 Expt. 7270
 Seeded 1996

Code	Cultivar	1998 (kg/ha)		Tot98
		Cut 1	Cut 2	
7001	LEO	2704	658	3361
7003	EMPIRE	3966	334	4300
7028	FERGUS	3807	790	4597
7034	BULL	3184	714	3898
7038	WELLINGTON	3245	621	3866
7039	01-1984-2	3343	593	3936
900	Mean	3375	618	3993
901	CV	8.6	20.8	7.7
905	MCV	10.6	25.8	9.6
902	LSD	358.1	159.6	381.5
906	LSR	28.4	35.0	30.9
907	Pr>F(Trts)	0.0003	0.0035	0.0011
908	R_square	80.1	78.9	80.8

RCBD arrangement, 4 blocks {1234}

ONTARIO
 New Liskeard
 Trefoil with Timothy
 Expt. 9711
 Seeded 1997

Code	Cultivar	1998 (kg/ha)		
		Cut 1	Cut 2	Tot98
7001	LEO	8010	4879	12889
7003	EMPIRE	8016	4766	12782
7028	FERGUS	7790	5055	12845
7031	OAC_BRIGHT	8919	5272	14192
7034	BULL	8649	5706	14355
900	Mean	8277	5136	13412
901	CV	3.6	4.9	3.4
905	MCV	4.5	6.1	4.2
902	LSD	374.6	314.1	566.8
906	LSR	33.2	33.4	36.0
907	Pr>F(Trts)	0.0008	0.0015	0.0004
908	R_square	82.9	80.3	84.9

RCBD arrangement, 4 blocks {1234}

ONTARIO
 Kapuskasing
 Trefoil with Timothy
 Expt. 6580
 Seeded 1997

Cultivars	Code	1998 (kg/ha)		Tot98
		Cut 1	Cut 2	
OAC BRIGHT	7031	6838	2793	9631
BULL	7034	6345	3146	9491
LEO	7001	6209	2789	8998
FERGUS	7028	6042	2898	8940
EMPIRE	7003	6072	2272	8344
MEAN/MOYENNE	900	6301	2780	9081
CV	901	8.3	6.4	6.6
LSD	902	806	274	922
F	907	NS	**	NS

RCBD arrangement, 4 blocks {1234}

HARVEST DATES : 07/06/98 08/18/98

ONTARIO
 Elora
 Early Timothy
 Expt. 2721
 Seeded 1995

Code	Cultivar	1998 (kg/ha)		Tot98	Tot97	Tot96	3yrTot
		Cut 1	Cut 2				
6005	CHAMP	6719	1624	8343	6151	6351	20845
6009	BASHO	5620	1328	6948	5444	5956	18348
6030	TORO	6811	1693	8504	6314	6456	21273
6040	TIMFOR	5654	1692	7346	5474	5012	17833
6050	RICHMOND	7756	1572	9328	6454	6633	22415
6074	GLENMORE	4844	1414	6258	4813	4816	15887
6087	NIKE	6644	1305	7949	5209	5454	18611
6123	COLT	6197	1769	7967	6579	5778	20323
6128	AC_REGAL	6077	1485	7562	5356	5393	18311
6129	SF8601	6185	1511	7695	5629	5660	18984
6130	SF8605	6229	1610	7838	5678	5688	19204
6134	TM_8901	6711	1492	8204	5836	6648	20687
900	Mean	6287	1541	7828	5745	5820	19393
901	CV	10.2	17.3	10.0	8.1	6.1	5.6
905	MCV	12.3	20.7	12.0	9.7	7.3	6.7
902	LSD	772.7	319.3	939.4	559.3	427.4	1298.0
906	LSR	26.5	68.7	30.6	31.7	23.3	19.9
907	Pr>F(Trts)	0.0001	0.3236	0.0010	0.0001	0.0000	0.0000
908	R_square	77.1	87.5	83.4	71.8	80.5	87.5

RCBD arrangement, 4 blocks {1234}

ONTARIO
Thunder Bay
Early Timothy
Expt. 7253
Seeded 1995

Code	Cultivar	1998 (kg/ha)	
		Cut 1	Tot98
6005	CHAMP	3471	3471
6009	BASHO	3515	3515
6030	TORO	3867	3867
6040	TIMFOR	3736	3736
6050	RICHMOND	3923	3923
6074	GLENMORE	2903	2903
6087	NIKE	3474	3474
6123	COLT	3598	3598
6128	AC_REGAL	3346	3346
6129	SF8601	3230	3230
6130	SF8605	3268	3268
6134	TM_8901	3789	3789
900	Mean	3510	3510
901	CV	6.2	6.2
905	MCV	7.4	7.4
902	LSD	259.2	259.2
906	LSR	25.4	25.4
907	Pr>F(Trts)	0.0000	0.0000
908	R_square	79.7	79.7

RCBD arrangement, 4 blocks {1234}

ONTARIO
 Kapuskasing
 Timothy Early harvest
 Expt. 6136
 Seeded 1995

Cultivars	Code	1998 (kg/ha)		Tot98
		Cut 1	Cut 2	
SF8307A	6128	4890	2374	7264
TORO	6030	4044	3119	7163
GLENMOR	6074	4971	2145	7116
RICHMOND	6050	4109	2943	7052
SF8601	6129	4439	2600	7039
TIMFOR	6040	4716	2300	7016
CHAMP	6005	4415	2457	6872
TM8601	6123	4319	2534	6853
BASHO	6009	4239	2234	6473
TM 8901	6134	3783	2620	6403
NIKE	6087	4316	2066	6382
SF8605	6130	4361	1827	6188
MEAN/MOYENNE	900	4384	2435	6818
CV	901	10.7	12.5	9.0
LSD	902	674	436	883
F	907	*	**	NS

RCBD arrangement, 4 blocks {1234}

HARVEST : 1st cut at early heading, others 6-7 weeks later.

HARVEST DATES : 06/23/98 08/17/98

FERTILIZATION : 85 kg/ha of N per cut, plus 55 N in the fall. P and K as

ONTARIO
Elora
Early Timothy
Expt. 2732
Seeded 1996

Code	Cultivar	1998 (kg/ha)		Tot98	Tot97	2yrTot
		Cut 1	Cut 2			
6005	CHAMP	6426	1365	7693	4403	11872
6009	BASHO	7307	1502	8757	4966	13656
6030	TORO	7509	1671	9289	4905	14216
6040	TIMFOR	6899	1398	8367	4800	13210
6050	RICHMOND	8633	1693	10327	5783	16164
6074	GLENMORE	5593	1210	6742	3767	10393
6087	NIKE	6587	1153	7760	3927	11681
6123	COLT	7345	1661	9093	5148	14314
6128	AC_REGAL	6771	1388	7987	4662	12600
6130	SF8605	6268	1450	7791	4328	12256
6134	TM_8901	8139	1444	9655	4880	14758
6137	LISCHKA	7062	1431	8444	3826	12180
900	Mean	7045	1447	8492	4616	13108
901	CV	11.6	11.1	10.7	12.7	10.5
905	MCV	13.9	13.3	12.8	15.3	12.6
902	LSD	977.7	192.5	1089.4	704.7	1649.5
906	LSR	32.2	35.6	30.4	35.0	28.6
907	Pr>F(Trts)	0.0058	0.0014	0.0030	0.0104	0.0024
908	R_square	63.3	83.9	69.7	73.7	72.5

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

ONTARIO
 Thunder Bay
 Early Timothy
 Expt. 7264
 Seeded 1996

Code	Cultivar	1998 (kg/ha)	
		Cut 1	Tot98
6005	CHAMP	3277	3277
6009	BASHO	3405	3405
6030	TORO	3531	3531
6040	TIMFOR	3529	3529
6050	RICHMOND	3264	3264
6074	GLENMORE	2947	2947
6087	NIKE	3461	3461
6123	COLT	3376	3376
6128	AC REGAL	3430	3430
6130	SF8605	3476	3476
6134	TM 8901	3187	3187
6137	LISCHKA	3382	3382
900	Mean	3355	3355
901	CV	7.1	7.1
905	MCV	8.5	8.5
902	LSD	286.5	286.5
906	LSR	49.0	49.0
907	Pr>F(Trts)	0.0679	0.0679
908	R_square	51.5	51.5

RCBD arrangement, 4 blocks {1234}

ONTARIO
 Kapuskasing
 Timothy Early harvest
 Expt. 6140
 Seeded 1996

Cultivars	Code	1998 (kg/ha)		Tot98
		Cut 1	Cut 2	
RICHMOND	6050	6407	4679	11086
LISCHKA	6137	6782	4021	10803
TIMFOR	6040	6843	3761	10604
NIKE	6087	6494	3726	10220
SF8307A	6128	6538	3895	10433
CHAMP	6005	6498	3589	10087
SF8605	6130	6170	3766	9936
TORO	6030	5681	4422	10103
BASHO	6009	5903	4093	9996
COLT	6123	6254	3952	10206
TM8901	6134	5353	4190	9543
GLENMOR	6074	5676	3045	8721
MEAN/MOYENNE	900	6217	3928	10145
CV	901	7.1	7.9	6.1
LSD	902	749	522	1040
F	907	**	**	*

RCBD arrangement, 3 blocks {124}

HARVEST DATES : 06/23/98 08/18/98

ONTARIO
 Elora
 Early Timothy
 Expt. 2749
 Seeded 1997

Code	Cultivar	1998 (kg/ha)		Tot98
		Cut 1	Cut 2	
6005	CHAMP	8315	3093	11408
6009	BASHO	8291	2830	11121
6030	TORO	7544	3047	10591
6040	TIMFOR	7379	2645	10024
6050	RICHMOND	8261	2825	11086
6074	GLENMORE	6783	2576	9359
6087	NIKE	7960	2533	10493
6123	COLT	8131	3063	11195
6134	TM_8901	8770	2755	11525
6137	LIŠCHKA	9000	3081	12080
900	Mean	8043	2845	10888
901	CV	5.3	10.1	5.6
905	MCV	6.4	12.2	6.8
902	LSD	517.5	346.8	740.3
906	LSR	23.3	61.9	27.2
907	Pr>F(Trts)	0.0000	0.0479	0.0001
908	R_square	77.0	44.8	69.8

RCBD arrangement, 4 blocks {1234}

ONTARIO
 Kemptville
 Early Timothy
 Expt. 3125
 Seeded 1997

Cultivar		1998 (kg/ha)			Tot98
		Cut 1	Cut 2	Cut 3	
6005	CHAMP	4060	4072	4388	12521
6009	BASHO	4593	3372	4134	12099
6030	TORO	5607	4134	4234	13975
6040	TIMFOR	4313	3828	3903	12044
6050	RICHMOND	5407	4472	3915	13793
6074	GLENMORE	3779	4170	4114	12064
6087	NIKE	4755	3997	4035	12788
6123	COLT	5960	4274	4098	14333
6134	TM8901	4826	4034	4231	13091
6137	LISCHKA	4411	3436	3810	11656
900	Mean	4771	3979	4086	12836
901	CV	11.9	20.5	12.9	9.0
902	LSD	685.2	982.7	634.0	1391.4

RCBD arrangement, 4 blocks {1234}

ONTARIO
 New Liskeard
 Early Timothy
 Expt. 9709
 Seeded 1997

Code	Cultivar	1998 (kg/ha)	
		Cut 1	Tot98
6005	CHAMP	7343	7343
6009	BASHO	7337	7337
6030	TORO	7931	7931
6040	TIMFOR	7863	7863
6050	RICHMOND	7762	7762
6074	GLENMORE	6691	6691
6087	NIKE	7445	7445
6123	COLT	6830	6830
6134	TM_8901	7546	7546
6137	LISCHKA	5472	5472
900	Mean	7222	7222
901	CV	7.4	7.4
905	MCV	8.9	8.9
902	LSD	644.7	644.7
906	LSR	26.2	26.2
907	Pr>F(Trts)	0.0000	0.0000
908	R_square	72.9	72.9

RCBD arrangement, 4 blocks {1234}

ONTARIO
 Kapuskasing
 Timothy, Late harvest
 Expt. 6132
 Seeded 1993

Cultivars	Code	1998 (kg/ha)		Tot98
		Cut 1	Cut 2	
TIMFOR	6040	5376	2601	7977
SF8601	6129	4811	2856	7667
TM8601	6123	4817	2694	7511
PXTI-08	6131	5107	2340	7447
SF8307A	6128	5013	2422	7435
T 120	6121	4284	2958	7242
PXTI-04	6125	4997	2103	7100
PXTF-06	6127	4634	2360	6994
CLIMAX	6002	4803	2152	6955
RVP03	6122	4600	2116	6716
PXTI-20	6126	4545	2139	6684
SF8605	6130	4435	2222	6657
PXTI-11	6132	3743	2763	6506
JONATAN	6133	4671	1753	6424
HT31	6124	4583	1652	6235
MEAN/MOYENNE	900	4695	2342	7037
CV	901	10.2	14.3	10.1
LSD	902	684	476	1013
F	907	**	**	*

RCBD arrangement, 4 blocks {1234}

HARVEST : 1st cut at early heading, others 6-7 weeks later.

HARVEST DATES : 06/23/98 08/19/98

FERTILIZATION : 85 kg/ha of N per cut, plus 55 N in the fall. P and K adequate.

ONTARIO
Elora
Late Timothy
Expt. 2722
Seeded 1995

Code	Cultivar	1998 (kg/ha)		Tot98	Tot97	Tot96	3yrTot
		Cut 1	Cut 2				
6002	CLIMAX	6986	1366	8352	6085	6430	20866
6026	ITASCA	8796	1536	10333	6769	6956	24058
6066	NORMAX	7642	1318	8961	6730	6706	22397
6075	WINMOR	6925	1246	8171	6002	6380	20553
6081	MARIPOSA	8735	1407	10142	6939	7655	24735
6086	ALEXANDER	7689	1523	9212	7282	6935	23429
6093	81009	7122	1225	8347	6243	6216	20806
6095	ARGUS	7415	1006	8421	5275	4424	18119
6097	CAROLA	7195	1323	8518	5690	7257	21466
6116	SAGUENAY	7395	1391	8786	6844	7393	23023
6121	T120	7522	1435	8957	6176	6656	21789
6122	RVP03	7409	1571	8980	6667	7122	22769
6124	HT_31	6981	1289	8271	5790	6260	20321
6133	JONATHAN	6834	1344	8178	5347	5850	19375
6135	TIA	7224	1190	8414	5586	6268	20268
6136	TM8902	8501	2124	10626	7617	7677	25920
900	Mean	7523	1393	8917	6315	6637	21868
901	CV	10.6	23.7	10.6	10.5	7.8	6.7
905	MCV	12.6	28.2	12.6	12.5	9.3	8.0
902	LSD	947.0	392.5	1122.1	787.5	619.7	1751.1
906	LSR	48.3	35.1	45.7	33.6	19.1	22.4
907	Pr>F(Trts)	0.0094	0.0252	0.0038	0.0001	0.0000	0.0000
908	R_square	48.2	65.5	56.9	61.4	77.8	74.9

RCBD arrangement, 4 blocks {1234}

ONTARIO
 Thunder Bay
 Late Timothy
 Expt. 7256
 Seeded 1995

Code	Cultivar	1998 (kg/ha)	
		Cut 1	Tot98
6002	CLIMAX	3467	3467
6026	ITASCA	3592	3592
6066	NORMAX	3616	3616
6075	WINMOR	2977	2977
6081	MARIPOSA	3713	3713
6086	ALEXANDER	3360	3360
6093	81009	3260	3260
6095	ARGUS	3104	3104
6097	CAROLA	3254	3254
6116	SAGUENAY	3326	3326
6121	T120	3207	3207
6122	RVP03	3418	3418
6124	HT_31	3402	3402
6133	JONATHAN	2992	2992
6135	TIA	2798	2798
6136	TM8902	3668	3668
900	Mean	3322	3322
901	CV	6.7	6.7
905	MCV	8.0	8.0
902	LSD	266.9	266.9
906	LSR	29.2	29.2
907	Pr>F(Trts)	0.0000	0.0000
908	R_square	66.4	66.4

RCBD arrangement, 4 blocks {1234}

ONTARIO
 Kapuskasing
 Timothy Late harvest
 Expt. 6137
 Seeded 1995

Cultivars	Code	1998 (kg/ha)		Tot98
		Cut 1	Cut 2	
WINMOR	6075	5345	2552	7897
ITASCA	6026	5270	2190	7460
NORMAX	6066	4748	2616	7364
ARGUS	6095	5223	2064	7287
TM 8902	6136	4901	2095	6996
JONATHAN	6133	5419	1509	6928
SV8505	6116	4959	1954	6913
TIA	6135	5066	1808	6874
81009	6093	4855	1945	6800
T120	6121	4339	2437	6776
CAROLA	6097	4894	1849	6743
ALEXANDER	6086	4730	1935	6665
RVP03	6122	4550	2065	6615
CLIMAX	6002	4633	1865	6498
MARIPOSA	6081	4354	2143	6497
HT-31	6124	4448	2008	6456
MEAN/MOYENNE	900	4858	2065	6923
CV	901	9.2	14.5	9.2
LSD	902	634	425	907
F	907	*	**	ns

RCBD arrangement, 4 blocks {1234}

HARVEST DATES : 06/23/98 08/17/98

ONTARIO
Elora
Late Timothy
Expt. 2739
Seeded 1996

Code	Cultivar	1998 (kg/ha)		Tot98	Tot97	2yrTot
		Cut 1	Cut 2			
6002	CLIMAX	7340	908	8248	4293	12541
6026	ITASCA	7040	781	7821	4574	12395
6066	NORMAX	7773	998	8771	5514	14285
6075	WINMOR	7541	1049	8591	4364	12954
6081	MARIPOSA	8460	833	9293	5386	14679
6086	ALEXANDER	7320	1032	8352	5178	13530
6093	81009	6686	841	7527	4077	11604
6095	ARGUS	7210	843	8053	4259	12311
6097	CAROLA	7081	832	7913	4396	12309
6116	SAGUENAY	7078	945	8022	4760	12782
6121	T120	7378	775	8153	4152	12305
6122	RVP03	7037	913	7950	4228	12178
6124	HT 31	6728	780	7508	3793	11301
6129	SF8601	7017	900	7917	4745	12662
6133	JONATHAN	6720	794	7514	3806	11319
6135	TIA	6736	860	7597	4540	12137
6136	TM8902	7674	969	8643	5374	14017
6138	AURORA	8119	898	9017	5059	14076
6139	VEGA	6172	598	6770	3830	10599
900	Mean	7216	871	8087	4544	12631
901	CV	7.5	15.1	7.6	8.4	6.2
905	MCV	9.0	17.9	9.0	10.0	7.3
902	LSD	647.6	156.3	731.4	452.5	926.3
906	LSR	28.3	34.6	29.0	26.3	22.7
907	Pr>F(Trts)	0.0000	0.0031	0.0001	0.0000	0.0000
908	R_square	67.3	67.1	69.0	88.0	83.8

RCBD arrangement, 4 blocks {1234}

ONTARIO
 Thunder Bay
 Late Timothy
 Expt. 7265
 Seeded 1996

Code	Cultivar	1998 (kg/ha)	
		Cut 1	Tot98
6002	CLIMAX	3387	3387
6026	ITASCA	3781	3781
6066	NORMAX	3416	3416
6075	WINMOR	3136	3136
6081	MARIPOSA	3370	3370
6086	ALEXANDER	3554	3554
6095	ARGUS	3190	3190
6097	CAROLA	3033	3033
6116	SAGUENAY	3614	3614
6121	T120	3527	3527
6124	HT 31	3337	3337
6129	SF8601	3000	3000
6133	JONATHAN	3224	3224
6135	TIA	3342	3342
6136	TM8902	3287	3287
6138	AURORA	3295	3295
6139	VEGA	3287	3287
900	Mean	3164	3164
901	CV	9.3	9.3
905	MCV	12.9	12.9
902	LSD	408.4	408.4
906	LSR	19.3	19.3
907	Pr>F(Trts)	0.0000	0.0000
908	R_square	84.5	84.5

RCBD arrangement, 3 blocks {123}

ONTARIO
 Kapuskasing
 Timothy Late harvest
 Expt. 6141
 Seeded 1996

Cultivars	Code	1998 (kg/ha)		
		Cut 1	Cut 2	Tot98
ALEXANDER	6086	6248	3498	9746
NORMAX	6066	6366	3691	10057
ITASCA	6026	6846	3216	10062
TM8902	6136	6213	3819	10032
MARIPOSA	6081	6295	3584	9879
SAQUENAY	6116	6386	3157	9543
CAROLA	6097	6119	3659	9778
SF8601	6129	5870	3527	9397
T120	6121	5584	3604	9188
ARGUS	6095	6172	2992	9164
HT31	6124	6338	2798	9136
AURORA	6138	5506	3503	9009
CLIMAX	6002	5740	3304	9044
RVP03	6122	6101	2782	8883
WINMOR	6075	5749	2963	8712
VEGA	6139	6310	2361	8671
TIA	6135	6174	2377	8551
JONATHAN	6133	5992	2414	8406
81009	6093	5940	2661	8601
MEAN/MOYENNE	900	6103	3153	9256
CV	901	6.3	9.9	5.4
LSD	902	639	519	828
F	907	*	**	**

RCBD arrangement, 3 blocks {134}

HARVEST DATES : 06/23/98 08/18/98

ONTARIO
 Elora
 Late Timothy
 Expt. 2750
 Seeded 1997

Code	Cultivar	1998 (kg/ha)		Tot98
		Cut 1	Cut 2	
6002	CLIMAX	8866	2401	11267
6026	ITASCA	9100	2719	11819
6066	NORMAX	7727	2946	10673
6075	WINMOR	7874	2277	10151
6081	MARIPOSA	8607	2552	11159
6086	ALEXANDER	7758	2761	10519
6095	ARGUS	8302	2655	10957
6097	CAROLA	8403	2456	10859
6116	SAGUENAY	8513	2872	11385
6135	TIA	7471	2214	9685
6136	TM8902	8554	3058	11612
6138	AURORA	9655	2523	12178
6139	VEGA	8618	1963	10581
900	Mean	8419	2569	10988
901	CV	7.9	11.4	6.7
905	MCV	9.5	13.6	8.1
902	LSD	799.5	350.6	889.4
906	LSR	36.6	32.0	35.7
907	Pr>F(Trts)	0.0026	0.0002	0.0020
908	R_square	56.2	65.4	58.9

RCBD arrangement, 4 blocks {1234}

ONTARIO
 Kemptville
 Late Timothy
 Expt. 3126
 Seeded 1997

Cultivar		1998 (kg/ha)			Tot98
		Cut 1	Cut 2	Cut 3	
6002	CLIMAX	4281	4063	3995	12338
6026	ITASCA	4062	4073	3518	11653
6066	NORMAX	4422	4382	4165	12969
6075	WINMOR	3903	4119	3817	11839
6081	MARIPOSA	3975	3651	3451	11077
6086	ALEXANDER	3630	4040	3189	10859
6095	ARGUS	5134	4131	4092	13356
6097	CAROLA	4240	4266	4159	12665
6116	SAGUENAY	4781	3733	3241	11755
6135	TIA	3526	4182	3646	11355
6136	TM8902	4828	4126	3681	12635
6138	AURORA	4712	4138	3916	12766
6139	VEGA	3950	3749	3838	11537
900	Mean	4265	4050	3747	12062
901	CV	14.4	8.8	16.1	9.3
902	LSD	738.7	425.5	722.4	1346.7

RCBD arrangement, 4 blocks {1234}

ONTARIO
 New Liskeard
 Late Timothy
 Expt. 9710
 Seeded 1997

Code	Cultivar	1998 (kg/ha)	
		Cut 1	Tot98
6002	CLIMAX	9070	9070
6026	ITASCA	8788	8788
6066	NORMAX	9001	9001
6075	WINMOR	9196	9196
6081	MARIPOSA	9374	9374
6095	ARGUS	9037	9037
6097	CAROLA	9059	9059
6116	SAGUENAY	9418	9418
6135	TIA	8737	8737
6136	TM8902	9998	9998
6138	AURORA	8798	8798
6139	VEGA	9104	9104
900	Mean	9159	9159
901	CV	7.9	7.9
905	MCV	9.5	9.5
902	LSD	865.8	865.8
906	LSR	68.6	68.6
907	Pr>F(Trts)	0.5410	0.5410
908	R_square	25.4	25.4

RCBD arrangement, 4 blocks {1234}

ONTARIO
 Thunder Bay
 Late Timothy
 Expt. 7278
 Seeded 1997

Code	Cultivar	1998 (kg/ha)		Tot98
		Cut 1	Cut 2	
6002	CLIMAX	4130	1383	5512
6026	ITASCA	4320	1181	5501
6066	NORMAX	4384	1412	5796
6075	WINMOR	4270	1223	5493
6081	MARIPOSA	4227	1306	5533
6086	ALEXANDER	4122	1558	5681
6095	ARGUS	4447	1446	5893
6097	CAROLA	4011	1187	5198
6116	SAGUENAY	4571	1492	6063
6135	TIA	3962	1136	5098
6136	TM8902	4079	993	5072
6138	AURORA	4157	1207	5365
6139	VEGA	3943	822	4765
900	Mean	4202	1257	5459
901	CV	6.9	21.3	7.2
905	MCV	8.3	25.6	8.7
902	LSD	347.0	321.4	474.4
906	LSR	55.3	43.6	36.5
907	Pr>F(Trts)	0.0963	0.0222	0.0025
908	R_square	64.5	54.7	65.5

RCBD arrangement, 4 blocks {1234}

ONTARIO
 Kapuskasing
 Orchardgrass
 Expt. 6154
 Seeded 1993

Cultivars	Code	1998 (kg/ha)			Tot98
		Cut 1	Cut 2	Cut 3	
NAPIER	3009	2636	2043	1601	6280
PXOF-37	3089	2827	1635	1486	5948
KAY	3003	3105	1658	1178	5941
PXOF-21	3088	2707	1715	1432	5854
BENCHMARK	3075	2486	1592	1695	5773
OKAY	3079	2987	1582	1185	5754
OG8705	3086	2825	1517	1327	5669
RAPIDO	3066	2504	1611	1519	5634
DS-7	3072	2474	1647	1481	5602
WEIBUL H94	3087	3247	1549	679	5475
HALLMARK	3027	2481	1529	1403	5413
MOBITE	3076	2532	1335	1394	5261
RANCHO	3069	2506	1389	1251	5146
ARTIC	3091	3061	1400	642	5103
JUNO	3001	2528	1169	1254	4951
MEAN/MOYENNE	900	2727	1558	1302	5587
CV	901	7.3	15.5	11.9	8.0
LSD	902	285	344	223	637
F	907	**	**	**	**

RCBD arrangement, 4 blocks {1234}

HARVEST : 1st cut at early heading, others 6-7 weeks later.

HARVEST DATES : 06/19/98 07/27/98 10/16/98

FERTILIZATION : 85 kg/ha of N per cut, plus 55 N in the fall. P and K adequate.

ONTARIO
 New Liskeard
 Orchardgrass
 Expt. 9506
 Seeded 1995

Code	Cultivar	1998 (kg/ha)		Tot98	Tot97	2yrTot
		Cut 1	Cut 2			
3001	JUNO	4547	2690	7238	9582	16820
3003	KAY	4257	2441	6698	8556	15254
3009	NAPIER	4660	3477	8137	10373	18510
3066	RAPIDO	3738	2902	6640	9909	16549
3069	RANCHO	3974	2707	6681	9802	16483
3072	DS7	3750	2868	6618	9897	16515
3074	JAY	4457	2551	7007	9495	16502
3075	BENCHMARK	3191	3043	6234	9717	15952
3076	MOBITE	3124	2823	5947	9176	15124
3078	AC_SPLENDOR	4365	3100	7465	9147	16612
3079	OKAY	4324	2972	7297	9602	16898
3091	ARTIC	4339	2500	6839	8677	15516
900	Mean	4061	2840	6900	9494	16395
901	CV	12.2	12.1	9.4	11.4	7.6
905	MCV	14.6	14.5	11.3	13.7	9.2
902	LSD	593.2	411.6	776.4	1299.0	1503.7
906	LSR	38.6	39.7	35.5	71.5	44.4
907	Pr>F(Trts)	0.0006	0.0090	0.0044	0.5137	0.0535
908	R_square	59.1	59.7	55.1	31.5	48.7

RCBD arrangement, 4 blocks {1234}

ONTARIO
 Kapuskasing
 Orchardgrass
 Expt. 6155
 Seeded 1995

Cultivars	Code	1998 (kg/ha)		Cut 3	Tot98
		Cut 1	Cut 2		
RAPIDO	3066	3086	2015	1603	6704
JUNO	3001	3242	1791	1642	6675
DS-7	3072	2972	1723	1871	6566
BENCHMARK	3075	3068	1534	1930	6532
NAPIER	3009	3079	1770	1597	6446
OKAY	3079	3082	1718	1570	6370
AC SPLENDOR	3078	2996	1657	1410	6063
RANCHO	3069	2905	1719	1435	6059
KAY	3003	2988	1601	1316	5905
MOBITE	3076	2596	1500	1784	5880
ARTIC	3091	3376	1468	848	5692
JAY	3074	2771	1184	1140	5095
MEAN/MOYENNE	900	3013	1640	1512	6166
CV	901	10.9	13.3	10.3	8.7
LSD	902	470	313	223	776
F	907	ns	**	**	**

RCBD arrangement, 4 blocks {1234}

HARVEST DATES : 06/19/98 07/28/98 10/06/98

ONTARIO
 Elora
 Orchardgrass
 Expt. 2729
 Seeded 1996

Code	Cultivar	1998 (kg/ha)			Tot98	Tot97	2yrTot
		Cut 1	Cut 2	Cut 3			
3001	JUNO	6568	1456	1789	9813	5163	14975
3003	KAY	6092	1687	1691	9469	5138	14607
3009	NAPIER	6293	1685	1749	9727	5066	14793
3027	HALLMARK	7176	2185	2228	11588	6477	18066
3066	RAPIDO	6027	1848	1945	9820	6459	16279
3072	DS7	5742	1838	1893	9472	5484	14957
3074	JAY	5449	1384	1441	8274	2883	11157
3075	BENCHMARK	7175	2028	1882	11085	4313	15398
3076	MOBITE	4583	1762	1605	7951	4559	12510
3078	AC SPLENDOR	4977	2001	1668	8647	4578	13225
3079	OKAY	5890	1983	1755	9628	6079	15707
3093	BAR_H_DGL_05	6245	1794	1925	9964	6173	16137
3094	OG9201	6951	1861	1851	10662	3445	14107
3095	PS9001	6779	2106	1912	10797	6598	17395
3096	OG9401	5220	1446	1569	8235	3845	12080
900	Mean	6078	1804	1793	9675	5084	14759
901	CV	8.4	14.9	10.5	7.4	28.0	11.2
905	MCV	10.0	17.8	12.5	8.8	33.4	13.3
902	LSD	606.0	320.8	223.6	854.6	1697.8	1968.2
906	LSR	23.4	40.1	28.4	23.5	45.7	28.5
907	Pr>F(Trts)	0.0000	0.0017	0.0002	0.0000	0.0080	0.0000
908	R_square	77.4	54.4	71.7	77.7	52.9	69.8

RCBD arrangement, 4 blocks {1234}

ONTARIO
New Liskeard
Orchardgrass
Expt. 8509
Seeded 1996

Code	Cultivar	1998 (kg/ha)		Tot98	Tot97	2yrTot
		Cut 1	Cut 2			
3001	JUNO	4727	3372	8100	8090	16189
3003	KAY	5845	3262	9107	8119	17226
3009	NAPIER	5098	3992	9090	8677	17767
3027	HALLMARK	4551	4189	8740	8476	17216
3066	RAPIDO	4287	3743	8030	7935	15965
3072	DS7	4907	4777	9684	8221	17905
3074	JAY	5575	3088	8663	7803	16466
3075	BENCHMARK	4510	3645	8155	7919	16074
3076	MOBITE	4435	3293	7727	6961	14689
3078	AC_SPLENDOR	5375	3322	8697	7810	16507
3079	OKAY	4965	3728	8693	7802	16495
3093	BAR_H_DGL_05	3923	3831	7755	7365	15120
3094	OG9201	4683	3873	8555	8980	17535
3095	PS9001	4575	3690	8265	8792	17057
3096	OG9401	5072	3113	8185	7659	15844
900	Mean	4835	3661	8496	8041	16537
901	CV	9.6	10.0	6.8	10.1	6.2
905	MCV	11.5	11.9	8.2	12.0	7.4
902	LSD	554.8	436.2	692.6	965.6	1215.6
906	LSR	28.9	25.8	35.4	47.8	37.8
907	Pr>F(Trts)	0.0000	0.0000	0.0009	0.0797	0.0013
908	R_square	62.4	68.2	55.1	41.8	56.6

RCBD arrangement, 4 blocks {1234}

ONTARIO
Elora
Orchardgrass
Expt. 2746
Seeded 1997

Code	Cultivar	1998 (kg/ha)			Tot98
		Cut 1	Cut 2	Cut 3	
3001	JUNO	6165	2073	2089	10327
3003	KAY	9387	1925	2168	13479
3009	NAPIER	6447	1880	2140	10466
3066	RAPIDO	7306	1963	2242	11511
3072	DS7	6827	2258	2150	11235
3074	JAY	6458	1598	1812	9868
3075	BENCHMARK	6872	2439	2301	11612
3078	AC_SPLENDOR	6141	1866	2103	10109
3079	OKAY	6738	2245	2244	11227
3093	BAR_H_DGL_05	5997	2375	2079	10451
3094	OG9201	5931	2292	1316	9539
3095	PS9001	6862	2601	2187	11650
3096	OG9401	4928	1785	1773	8486
900	Mean	6620	2100	2046	10766
901	CV	9.2	12.5	9.3	8.0
905	MCV	11.0	15.0	11.2	9.6
902	LSD	730.1	314.0	228.2	1036.0
906	LSR	16.4	31.3	23.2	20.7
907	Pr>F(Trts)	0.0000	0.0001	0.0000	0.0000
908	R_square	80.2	63.2	73.2	74.5

RCBD arrangement, 4 blocks {1234}

ONTARIO
New Liskeard
Orchardgrass
Expt. 9705
Seeded 1997

Code	Cultivar	1998 (kg/ha)		Tot98
		Cut 1	Cut 2	
3001	JUNO	5199	3924	9123
3003	KAY	6371	4332	10703
3009	NAPIER	5863	4816	10680
3066	RAPIDO	5288	4005	9293
3072	DS7	5734	4058	9792
3074	JAY	6126	4183	10309
3075	BENCHMARK	4882	4303	9185
3078	AC_SPLENDOR	6709	4598	11307
3079	OKAY	6349	4241	10590
3093	BAR_H_DGL_05	4998	4107	9105
3094	OG9201	5473	4609	10082
3095	PS9001	5467	4454	9921
3096	OG9401	6538	3713	10251
900	Mean	5769	4257	10026
901	CV	10.7	14.5	9.2
905	MCV	14.9	20.3	12.9
902	LSD	861.5	864.1	1289.4
906	LSR	47.2	78.4	58.6
907	Pr>F(Trts)	0.0126	0.6983	0.1181
908	R_square	59.7	39.5	48.6

RCBD arrangement, 3 blocks {234}

ONTARIO
 Thunder Bay
 Orchardgrass
 Expt. 7279
 Seeded 1997

Code	Cultivar	1998 (kg/ha)		Tot98
		Cut 1	Cut 2	
3001	JUNO	5764	1753	7516
3003	KAY	5745	1739	7484
3009	NAPIER	5612	1908	7520
3066	RAPIDO	5217	1884	7101
3072	DS7	5270	2094	7365
3074	JAY	5223	1735	6958
3075	BENCHMARK	5101	2017	7118
3078	AC_SPLENDOR	5326	1772	7097
3079	OKAY	5908	1909	7816
3093	BAR_H_DGL_05	5332	1781	7112
3094	OG9201	5172	1900	7072
3095	PS9001	5604	1944	7548
3096	OG9401	4875	1761	6636
900	Mean	5396	1861	7257
901	CV	8.7	10.2	7.2
905	MCV	10.4	12.3	8.6
902	LSD	563.9	228.6	624.8
906	LSR	54.6	63.5	53.0
907	Pr>F(Trts)	0.1163	0.1840	0.1805
908	R_square	49.8	49.3	53.2

RCBD arrangement, 4 blocks {1234}

ONTARIO
 New Liskeard
 Bromegrass
 Expt. 9409
 Seeded 1994

Code	Cultivar	1998 (kg/ha)		Tot97	2yrTot
		Cut 1	Tot98		
2001	BAYLOR	5533	5533	10892	16425
2002	SARATOGA	6047	6047	11931	17978
2027	BEACON	5782	5782	10697	16479
2039	BRAVO	5925	5925	10900	16826
2051	RADISSON	6397	6397	10556	16953
2054	PADDOCK	7330	7330	11091	18421
2055	COTTONWOOD	5041	5041	10422	15462
900	Mean	5955	5955	10850	16805
901	CV	7.6	7.6	6.7	5.3
905	MCV	9.3	9.3	8.1	6.4
902	LSD	553.2	553.2	878.2	1077.9
906	LSR	24.2	24.2	54.3	36.4
907	Pr>F(Trts)	0.0000	0.0000	0.1051	0.0019
908	R_square	76.0	76.0	43.8	65.4

RCBD arrangement, 4 blocks {1234}

ONTARIO
 Elora
 Bromegrass
 Expt. 2719
 Seeded 1995

Code	Cultivar	1998 (kg/ha)		Tot98	Tot97	2yrTot
		Cut 1	Cut 2			
2001	BAYLOR	5714	1318	6961	4223	11306
2002	SARATOGA	5304	1721	6840	4886	11710
2027	BEACON	5877	1564	7301	4532	11665
2039	BRAVO	5444	1592	7402	4236	11650
2051	RADISSON	5926	1678	7789	4689	12277
2053	GRASSLANDS_G	4689	1792	6321	2408	8733
2054	PADDOCK	6987	1671	8722	5094	14173
2055	COTTONWOOD	5112	1521	6573	4011	10475
900	Mean	5632	1607	7239	4260	11499
901	CV	11.9	12.3	11.1	6.6	8.2
905	MCV	17.3	17.9	16.2	9.7	11.9
902	LSD	973.9	286.9	1174.1	411.9	1372.7
906	LSR	42.4	60.5	48.9	15.3	25.2
907	Pr>F(Trts)	0.0622	0.4190	0.1171	0.0001	0.0152
908	R_square	68.8	84.4	64.1	95.6	83.3

RCBD arrangement, 3 blocks {234}
 Nearest-neighbour covariance adjusted.

ONTARIO
 New Liskeard
 Bromegrass
 Expt. 9505
 Seeded 1995

Code	Cultivar	1998 (kg/ha)		Tot98	Tot97	2yrTot
		Cut 1	Cut 2			
2001	BAYLOR	5891	3096	8987	6471	15458
2002	SARATOGA	6039	4269	10308	7132	17440
2027	BEACON	5677	4169	9846	6510	16356
2039	BRAVO	5839	4367	10207	8618	18825
2051	RADISSON	5439	4689	10128	7243	17371
2054	PADDOCK	6794	3287	10081	8606	18687
2055	COTTONWOOD	4703	3193	7896	5404	13299
900	Mean	5510	3765	9276	6837	16112
901	CV	11.1	14.6	9.2	10.1	8.1
905	MCV	13.5	17.7	11.2	12.3	9.8
902	LSD	741.5	667.4	1038.0	841.6	1586.7
906	LSR	24.0	40.8	29.2	21.5	21.6
907	Pr>F(Trts)	0.0000	0.0007	0.0000	0.0000	0.0000
908	R_square	76.2	69.3	77.0	86.5	85.0

RCBD arrangement, 4 blocks {1234}

ONTARIO
 Elora
 Bromegrass
 Expt. 2728
 Seeded 1996

Code	Cultivar	1998 (kg/ha)		Tot98	Tot97	2yrTot
		Cut 1	Cut 2			
2001	BAYLOR	7192	1382	8574	4606	13180
2002	SARATOGA	7392	1935	9327	5720	15047
2027	BEACON	6675	1295	7970	4688	12658
2039	BRAVO	7158	1741	8899	5654	14552
2051	RADISSON	6776	1468	8244	4775	13019
2056	LEIF	5428	1354	6782	4892	11673
900	Mean	6770	1529	8299	5056	13355
901	CV	6.9	13.9	6.5	9.2	6.5
905	MCV	8.5	17.3	8.1	11.4	8.0
902	LSD	576.2	264.1	673.5	576.3	1067.9
906	LSR	29.3	41.2	26.5	51.8	31.7
907	Pr>F(Trts)	0.0004	0.0041	0.0002	0.0098	0.0007
908	R_square	79.7	66.1	80.3	65.2	73.8

RCBD arrangement, 4 blocks {1234}

ONTARIO
 New Liskeard
 Bromegrass
 Expt. 9613
 Seeded 1996

Code	Cultivar	1998 (kg/ha)		Tot97	2yrTot
		Cut 1	Tot98		
2001	BAYLOR	5163	5163	11346	16509
2002	SARATOGA	5454	5454	12008	17462
2027	BEACON	5201	5201	11149	16349
2039	BRAVO	5779	5779	11220	16999
2051	RADISSON	6236	6236	11569	17804
2056	LEIF	5857	5857	10838	16695
900	Mean	5615	5615	11355	16970
901	CV	7.1	7.1	4.0	4.1
905	MCV	8.9	8.9	5.0	5.1
902	LSD	497.4	497.4	562.3	863.0
906	LSR	46.4	46.4	48.1	59.3
907	Pr>F(Trts)	0.0123	0.0123	0.0400	0.0646
908	R_square	65.2	65.2	64.2	49.2

RCBD arrangement, 4 blocks {1234}

ONTARIO
 Thunder Bay
 Bromegrass
 Expt. 7262
 Seeded 1996

Code	Cultivar	1998 (kg/ha)	
		Cut 1	Tot98
2001	BAYLOR	3673	3673
2002	SARATOGA	3462	3462
2027	BEACON	3332	3332
2039	BRAVO	3445	3445
2051	RADISSON	3481	3481
2056	LEIF	3198	3198
900	Mean	3432	3432
901	CV	9.4	9.4
905	MCV	13.9	13.9
902	LSD	477.6	477.6
906	LSR	100.5	100.5
907	Pr>F(Trts)	0.6198	0.6198
908	R_square	32.2	32.2

RCBD arrangement, 3 blocks {124}

ONTARIO
 Kapuskasing
 Bromegrass
 Expt. 6180
 Seeded 1996

Cultivars	Code	1998 (kg/ha)		
		Cut 1	Cut 2	Tot98
LEIF	2056	5131	3541	8672
BRAVO	2039	4904	3636	8540
SARATOGA	2002	4579	3713	8292
BEACON	2027	4013	3872	7885
RADISSON	2051	4263	3454	7717
BAYLOR	2001	3735	3317	7052
MEAN/MOYENNE	900	4437	3589	8026
CV	901	4.6	10.8	6.0
LSD	902	370	707	882
F	907	**	NS	*

RCBD arrangement, 3 blocks {134}

HARVEST DATES :

06/19/98

07/28/98

ONTARIO
 New Liskeard
 Bromegrass
 Expt. 9704
 Seeded 1997

Code	Cultivar	1998 (kg/ha)	
		Cut 1	Tot98
2001	BAYLOR	10056	10056
2002	SARATOGA	9536	9536
2027	BEACON	9907	9907
2039	BRAVO	8965	8965
2051	RADISSON	10459	10459
2056	LEIF	8858	8858
900	Mean	9630	9630
901	CV	6.2	6.2
905	MCV	7.7	7.7
902	LSD	744.2	744.2
906	LSR	46.5	46.5
907	Pr>F(Trts)	0.0114	0.0114
908	R_square	61.8	61.8
RCBD arrangement, 4 blocks {1234}			

ONTARIO
 Thunder Bay
 Bromegrass
 Expt. 7274
 Seeded 1997

Code	Cultivar	1998 (kg/ha)		
		Cut 1	Cut 2	Tot98
2001	BAYLOR	6631	1482	8114
2002	SARATOGA	6711	1517	8228
2027	BEACON	6904	1545	8449
2039	BRAVO	6742	1502	8244
2051	RADISSON	6594	1474	8068
2056	LEIF	6473	1113	7586
900	Mean	6676	1439	8115
901	CV	10.7	12.5	10.5
905	MCV	13.3	15.5	13.1
902	LSD	884.9	223.2	1059.9
906	LSR	205.3	51.6	122.8
907	Pr>F(Trts)	0.9684	0.0354	0.7989
908	R_square	54.4	53.7	51.3

RCBD arrangement, 4 blocks {1234}

ONTARIO
 Elora
 Bromegrass Trial D, Frequent harvest
 Expt. 2745
 Seeded 1997

Code	Cultivar	1998 (kg/ha)		Cut 3	Cut 4	Tot98
		Cut 1	Cut 2			
2001	BAYLOR	4723	363	2368	457	8095
2002	SARATOGA	5761	470	2988	547	8920
2027	BEACON	3210	410	2614	383	6882
2039	BRAVO	5129	514	2940	621	9441
2051	RADISSON	3820	313	2491	371	7005
2054	PADDOCK	5292	837	2282	1139	9869
2055	COTTONWOOD	5121	307	2247	493	8432
2056	LEIF	5590	472	2707	438	8933
2057	FLEET	5856	605	2383	1017	9702
900	Mean	4945	477	2558	607	8587
901	CV	14.2	29.7	12.8	17.8	13.0
905	MCV	20.4	42.7	18.5	25.7	18.7
902	LSD	1007.0	203.4	472.0	155.9	1601.4
906	LSR	38.0	38.4	63.7	20.3	53.6
907	Pr>F(Trts)	0.0111	0.0135	0.1107	0.0000	0.0646
908	R_square	76.2	70.3	58.1	91.9	66.0

RCBD arrangement, 3 blocks {234}
 Nearest-neighbour covariance adjusted.

ONTARIO
 New Liskeard
 Bromegrass Trial D frequent harvest
 Expt. 9706
 Seeded 1997

Code	Cultivar	1998 (kg/ha)		Tot98
		Cut 1	Cut 2	
2001	BAYLOR	9224	4135	13358
2002	SARATOGA	8866	4722	13588
2027	BEACON	9883	3445	13328
2039	BRAVO	9571	4481	14052
2051	RADISSON	9823	4374	14197
2054	PADDOCK	9455	3300	12755
2055	COTTONWOOD	7968	4053	12021
2056	LEIF	7382	4221	11603
2057	FLEET	9443	2079	11522
900	Mean	9068	3868	12936
901	CV	12.8	17.3	10.9
905	MCV	15.5	20.9	13.2
902	LSD	1409.2	809.8	1709.3
906	LSR	56.4	30.6	63.9
907	Pr>F(Trts)	0.0675	0.0003	0.0810
908	R_square	45.5	66.9	42.3

RCBD arrangement, 4 blocks {1234}

ONTARIO
 Thunder Bay
 Bromegrass Trial D, frequent harvest
 Expt. 7275
 Seeded 1997

Code	Cultivar	1998 (kg/ha)			Tot98
		Cut 1	Cut 2	Cut 3	
2001	BAYLOR	6700	454	645	7799
2002	SARATOGA	6753	496	729	7978
2027	BEACON	6691	380	685	7756
2039	BRAVO	7484	503	730	8717
2051	RADISSON	7248	373	657	8279
2054	PADDOCK	7735	643	518	8895
2055	COTTONWOOD	6381	395	653	7429
2056	LEIF	6687	435	545	7667
2057	FLEET	8268	638	567	9473
900	Mean	7105	480	636	8221
901	CV	7.5	17.7	11.9	7.1
905	MCV	9.1	21.4	14.4	8.6
902	LSD	646.9	102.5	91.3	704.6
906	LSR	34.3	38.1	43.1	34.5
907	Pr>F(Trts)	0.0006	0.0004	0.0031	0.0006
908	R_square	66.8	71.0	67.8	66.4

RCBD arrangement, 4 blocks {1234}

ONTARIO
 Elora
 Reed Canary
 Expt. 2720
 Seeded 1995

Code	Cultivar	1998 (kg/ha)		Tot98	Tot97	Tot96	3yrTot
		Cut 1	Cut 2				
5011	VANTAGE	5848	2190	8038	5022	9699	22759
5013	PALATON	5720	1521	7241	4758	8789	20789
5016	VENTURE	5474	1719	7193	4126	8449	19768
5018	LARA	5735	1628	7363	5337	9540	22240
5019	EMPHASIS	4336	1198	5534	2405	4077	12017
900	Mean	5423	1651	7074	4330	8111	19515
901	CV	10.4	14.1	8.7	10.3	9.1	6.0
905	MCV	15.8	21.4	13.3	15.6	13.8	9.1
902	LSD	857.0	352.7	938.7	676.0	1117.4	1773.1
906	LSR	56.7	35.6	37.5	23.1	19.9	16.5
907	Pr>F(Trts)	0.0564	0.0097	0.0117	0.0004	0.0001	0.0001
908	R_square	64.9	78.4	77.2	91.8	93.7	95.5

RCBD arrangement, 3 blocks {123}

ONTARIO
 New Liskeard
 Reed Canary
 Expt. 9507
 Seeded 1995

Code	Cultivar	1998 (kg/ha)		Tot98	Tot97	2yrTot
		Cut 1	Cut 2			
5011	VANTAGE	6501	7007	13508	11160	24668
5013	PALATON	6323	6861	13184	10918	24102
5016	VENTURE	5570	6998	12568	11064	23633
5018	LARA	6196	6607	12802	11084	23886
900	Mean	5671	6228	11899	10426	22325
901	CV	9.7	14.1	8.1	8.7	7.4
905	MCV	12.2	17.8	10.2	11.0	9.4
902	LSD	691.0	1109.9	1212.1	1148.7	2092.2
906	LSR	25.3	33.2	20.0	35.3	22.4
907	Pr>F(Trts)	0.0001	0.0007	0.0000	0.0011	0.0000
908	R_square	85.3	79.0	90.4	78.6	88.4

RCBD arrangement, 4 blocks {1234}

ONTARIO
 Thunder Bay
 Reed Canarygrass
 Expt. 7255
 Seeded 1995

Code	Cultivar	1998 (kg/ha)	
		Cut 1	Tot98
5011	VANTAGE	1549	1549
5013	PALATON	1343	1343
5016	VENTURE	1286	1286
5018	LARA	1345	1345
900	Mean	1238	1238
901	CV	13.8	13.8
907	Pr>F(Trts)	0.0002	0.0002
908	R_square	85.4	85.4
RCBD arrangement, 4 blocks {1234}			

ONTARIO
 Kapuskasing
 Reed Canarygrass
 Expt. 6067
 Seeded 1995

Cultivars	Code	1998 (kg/ha)		Tot98
		Cut 1	Cut 2	
VANTAGE	5011	5665	2298	7963
PALATON	5013	5084	1826	6910
LARA	5018	4930	1738	6668
VENTURE	5016	4739	1788	6527
MEAN/MOYENNE	900	5105	1912	7017
CV	901	8.9	14.5	9.7
LSD	902	724	443	1089
F	907	NS	NS	NS

RCBD arrangement, 4 blocks {1234}
 HARVEST : 2 CUTS AT EARLY HEADING PER SEASON.
 HARVEST DATES : 07/06/98 08/19/98
 FERTILIZATION : 85 KG/HA OF N PER CUT.

ONTARIO
 Elora
 Reed Canarygrass
 Expt. 2730
 Seeded 1996

Code	Cultivar	1998 (kg/ha)		Tot98	Tot97	2yrTot
		Cut 1	Cut 2			
5011	VANTAGE	6227	1954	8181	5284	13465
5013	PALATON	6430	1755	8185	4626	12810
5016	VENTURE	6139	1789	7928	4622	12549
5023	ASRCG-96	6277	1734	8010	4422	12432
5024	VASR8401	3179	1359	4538	3395	7933
900	Mean	5650	1718	7368	4470	11838
901	CV	10.8	9.3	9.0	9.9	8.7
905	MCV	16.5	14.1	13.7	15.1	13.2
902	LSD	930.4	242.1	1011.7	673.6	1565.3
906	LSR	28.6	40.7	27.7	35.7	28.3
907	Pr>F(Trts)	0.0010	0.0189	0.0007	0.0100	0.0014
908	R_square	88.7	79.3	89.9	78.2	87.8

RCBD arrangement, 3 blocks {234}

ONTARIO
 New Liskeard
 Reed Canarygrass
 Expt. 8003
 Seeded 1996

Code	Cultivar	1998 (kg/ha)		Tot98	Tot97	2yrTot
		Cut 1	Cut 2			
5011	VANTAGE	5196	7240	12436	5981	18416
5013	PALATON	4983	6820	11804	6784	18587
5016	VENTURE	4789	7250	12039	6527	18565
5023	ASRCG-96	5078	7045	12122	7040	19162
5024	VASR8401	3049	5289	8338	5973	14311
900	Mean	4619	6729	11348	6461	17808
901	CV	9.0	6.0	6.5	19.2	7.0
905	MCV	11.3	7.6	8.1	24.2	8.9
902	LSD	521.9	511.1	923.2	1560.9	1579.2
906	LSR	24.3	26.1	22.5	146.4	32.6
907	Pr>F(Trts)	0.0001	0.0001	0.0000	0.6756	0.0010
908	R_square	86.3	86.5	88.0	41.2	80.2

RCBD arrangement, 4 blocks {1234}

ONTARIO
 Thunder Bay
 Reed Canarygrass
 Expt. 7266
 Seeded 1996

Code	Cultivar	1998 (kg/ha)		
		Cut 1	Cut 2	Tot98
5011	VANTAGE	3256	947	4203
5013	PALATON	2986	872	3858
5016	VENTURE	3344	846	4190
5023	ASRCG-96	3475	871	4346
5024	VASR8401	1040	726	1766
900	Mean	2820	852	3673
901	CV	8.8	6.6	7.2
905	MCV	11.1	8.3	9.1
902	LSD	313.3	70.9	334.9
906	LSR	12.9	32.1	13.0
907	Pr>F(Trts)	0.0000	0.0022	0.0000
908	R_square	96.1	86.5	96.2

RCBD arrangement, 4 blocks {1234}

ONTARIO
 Kemptville
 Reed Canarygrass
 Expt. 3127
 Seeded 1997

Cultivar	1998 (kg/ha)			Tot98
	Cut 1	Cut 2	Cut 3	
5011 VANTAGE	3293	5031	2789	11113
5013 PALATON	3250	4065	2882	10197
5016 VENTURE	3295	4360	3164	10818
5023 ASRCG-96	3152	4432	2813	10397
5024 VASR8401	1139	3049	2387	6576
900 Mean	2826	4187	2807	9820
901 CV	19.6	15.0	19.5	14.1
902 LSD	698.5	793.5	689.6	1746.1

RCBD arrangement, 4 blocks {1234}

ONTARIO
 New Liskeard
 Reed Canary
 Expt. 9707
 Seeded 1997

Code	Cultivar	1998 (kg/ha)	
		Cut 1	Tot98
5011	VANTAGE	9352	9352
5013	PALATON	9266	9266
5016	VENTURE	9107	9107
5023	ASRCG-96	8969	8969
5024	VASR8401	4658	4658
900	Mean	8270	8270
901	CV	3.6	3.6
905	MCV	4.6	4.6
902	LSD	377.5	377.5
906	LSR	8.0	8.0
907	Pr>F(Trts)	0.0000	0.0000
908	R_square	98.5	98.5

RCBD arrangement, 4 blocks {1234}

ONTARIO
 Thunder Bay
 Reed Canarygrass
 Expt. 7276
 Seeded 1997

Code	Cultivar	1998 (kg/ha)		Tot98
		Cut 1	Cut 2	
5011	VANTAGE	3619	919	4538
5013	PALATON	3498	909	4407
5016	VENTURE	3683	904	4587
5023	ASRCG-96	3727	881	4607
5024	VASR8401	1525	460	1986
900	Mean	3210	815	4025
901	CV	6.2	15.9	5.4
905	MCV	7.9	20.0	6.7
902	LSD	252.1	163.1	271.3
906	LSR	11.5	35.6	10.4
907	Pr>F(Trts)	0.0000	0.0012	0.0000
908	R_square	97.0	79.6	97.6

RCBD arrangement, 4 blocks {1234}

ONTARIO
 Elora
 Tall Fescue
 Expt. 2731
 Seeded 1996

Code	Cultivar	1998 (kg/ha)		Tot98	Tot97	2yrTot
		Cut 1	Cut 2			
5519	FESTORINA	9499	2249	11748	5181	16930
5523	COURTENAY	6977	2295	9272	4370	13642
5526	KOKANEE	7488	2680	10168	5795	15963
5527	MONTEBELLO	7278	2102	9380	5006	14386
900	Mean	7030	2220	9249	4824	14073
901	CV	5.9	13.1	5.5	13.8	6.2
905	MCV	7.4	16.6	6.9	17.4	7.8
902	LSD	519.4	367.4	641.5	840.1	1091.1
906	LSR	9.3	40.4	10.6	41.4	14.6
907	Pr>F(Trts)	0.0000	0.0125	0.0000	0.0099	0.0000
908	R_square	97.0	66.8	96.4	69.9	94.1

RCBD arrangement, 4 blocks {1234}

ONTARIO
 New Liskeard
 Tall Fescue
 Expt. 9608
 Seeded 1996

Code	Cultivar	1998 (kg/ha)		Tot98	Tot97	2yrTot
		Cut 1	Cut 2			
5519	FESTORINA	5741	6625	12365	10432	22798
5523	COURTENAY	7120	8205	15325	10792	26117
5526	KOKANEE	5728	7245	12973	11453	24426
5527	MONTEBELLO	6142	7066	13208	11992	25200
900	Mean	6240	7074	13314	10533	23847
901	CV	8.5	11.1	7.8	12.8	8.1
905	MCV	10.7	14.0	9.8	16.2	10.2
902	LSD	664.7	992.4	1307.3	1701.5	2435.9
906	LSR	47.8	50.2	44.2	42.6	44.9
907	Pr>F(Trts)	0.0149	0.0379	0.0128	0.0117	0.0142
908	R_square	68.8	56.3	65.3	68.8	67.8

RCBD arrangement, 4 blocks {1234}

ONTARIO
 Elora
 Tall Fescue
 Expt. 2748
 Seeded 1997

Code	Cultivar	1998 (kg/ha)		Tot98
		Cut 1	Cut 2	
5025	FUEGO	9326	2954	12280
5026	TF8805	10694	2468	13162
5519	FESTORINA	10366	3189	13555
5523	COURTENAY	10410	3488	13898
5526	KOKANEE	10200	3701	13900
5527	MONTEBELLO	10468	3465	13933
900	Mean	10244	3211	13455
901	CV	8.0	12.0	7.9
905	MCV	9.9	14.9	9.8
902	LSD	1011.8	478.8	1315.4
906	LSR	73.9	38.9	79.5
907	Pr>F(Trts)	0.2900	0.0052	0.2502
908	R_square	53.6	76.7	61.5

RCBD arrangement, 4 blocks {1234}

ONTARIO
 New Liskeard
 Tall Fescue
 Expt. 9708
 Seeded 1997

Code	Cultivar	1998 (kg/ha)	
		Cut 1	Tot98
5025	FUEGO	4582	4582
5026	TF8805	6384	6384
5519	FESTORINA	5314	5314
5523	COURTENAY	6044	6044
5526	KOKANEE	6525	6525
5527	MONTEBELLO	6699	6699
900	Mean	5925	5925
901	CV	6.5	6.5
905	MCV	8.0	8.0
902	LSD	474.8	474.8
906	LSR	22.4	22.4
907	Pr>F(Trts)	0.0000	0.0000
908	R_square	86.1	86.1

RCBD arrangement, 4 blocks {1234}

ONTARIO
 Thunder Bay
 Tall Fescue
 Expt. 7277
 Seeded 1997

Code	Cultivar	1998 (kg/ha)		Tot98
		Cut 1	Cut 2	
5025	FUEGO	5011	1721	6731
5026	TF8805	6405	1420	7825
5519	FESTORINA	5500	1640	7140
5523	COURTENAY	5597	1789	7386
5526	KOKANEE	5330	2003	7333
5527	MONTEBELLO	5769	1982	7751
900	Mean	5602	1759	7361
901	CV	11.7	8.3	9.1
905	MCV	14.5	10.3	11.3
902	LSD	811.6	181.4	834.4
906	LSR	58.2	31.1	76.3
907	Pr>F(Trts)	0.1267	0.0005	0.2675
908	R_square	63.0	88.4	71.7

RCBD arrangement, 4 blocks {1234}

OFCC Annual Forage Tests 1998

		1998 Yield (kg/ha)			
		Kemptville	Thunder Bay	Elora	Huron
Code	Entry				
7501	HiPro IV	4554	1257	8756	3744
7504	Trapper/Rigodon	5284	1497	8562	4848
7509	Rigodon	5200	1586	9242	3937
7513	Plains	4057	860	7628	2920
7519	RG003	4791	1311	9218	3363
7522	Canis/Assiniboia	5251	1533	8155	4105
7523	Canis/OT276	5488	1704	8669	4716
7525	Canis/Sandro	3731	681	7195	3769
7526	40-10/Assiniboia	4808	1518	7616	4573
7527	Victoria/Assiniboia	5121	1643	8089	3393
7528	Discovery/Assiniboia	5428	1919	8421	3266
7529	BC97-1	6418	2129	8863	3993
7530	Leger	4896	1275	10027	3129
	Mean	5002	1255	8495	3827
	CV(%)	7.9	15.8	9.7	14.4
	LSD(0.05)	475	330	993	663

Heading Dates, Elora 1998

Name	Code	Heading Date	Name	Code	Heading Date
Bromegrass			Tall Fescue		
Fleet	2057	May15	Fuego	5025	May 27
Baylor	2033	May 21	Festorina	5519	May 22
Beacon	2027	May 20	Kokanee	5526	May 29
Bravo	2039	May 23	Montebello	5527	May 21
Leif	2056	May 20	TF8805	5026	May 22
Cottonwood	2055	May 20	Courtenay	5523	May 25
Paddock	2054	May 15			
Saratoga	2002	May22	Timothy		
Radisson	2051	May 22	Champ	6005	May 30
Orchardgrass			Glenmor	6074	June 15
AC Splendor	3078	May 21	Lischka	6137	June 1
Bar H DGL 05	3093	May 15	Nike	6087	June 3
Benchmark	3075	May 15	Richmond	6050	May 27
DS7	3072	May 21	SF8307A	6128	June 8
Jay	3074	May 28	SF8605	6130	June 5
Juno	3001	May 15	Timfor	6040	June 1
Kay	3003	May 21	TM 8901	6134	May 27
Mobite	3076	May 25	Toro	6030	May 28
Napier	3009	May 16	Alexander	6086	June 5
OG9401	3096	June 1	Argus	6095	June 1
Okay	3079	May 19	Aurora	6138	June 1
PS9001	3095	May 15	Carola	6097	June 3
Rancho	3069	May 19	Itasca	6026	June 9
Rapido	3066	May 20	Jonathan	6133	June 12
Hallmark	3027	May 15	Mariposa	6081	June 4
Artic	3091	May 23	Normax	6066	June 10
OG9201	3094	May16	Saguenay	6116	June 10
Reed Canarygrass			Tia	6135	June 9
Vantage	5011	May 27	TM8902	6136	June 9
Venture	5016	May 25	Vega	6139	June 11
VASR8401	5024	June 9	Winmor	6075	June 13
ASRCG-96	5023	May 28	81009	6093	June 15
Palaton	5013	May 26	SF8601	6129	June 7
			Colt	6123	May 28
			RVP03	6122	June 10
			HT 31	6124	June 12
			Climax	6002	June 12
			Basho	6009	May 28

Heading corresponds to Stage R2 in which the spikelets are fully emerged but the peduncle is not emerged.