

STEVE BOWLEY

ONTARIO FORAGE CROP INVESTIGATIONS



1984 REPORT ON FIELD TRIALS OF VARIETIES AND MIXTURES

- Kapuskasing
- Kemptville
- Thunder Bay
- New Liskeard
- Ridgetown
- Guelph
- Ottawa

1984 REPORT ON FORAGE CROPS TRIALS

ONTARIO FORAGE CROP COMMITTEE

Conducted co-operatively by the Ontario Ministry of Agriculture and Food; the Crop Science Department, University of Guelph; and the Ontario Agricultural Experimental Stations of Agriculture Canada.

Not for Publication: This is a progress report of co-operative investigations containing data, the interpretation of which may be modified with additional experimentation.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.

CONTENTS

INTRODUCTION	1
Coordinators' Names and Addresses	2
Current Status of Varieties	3
Disease Ratings	7
Correction to 1983 Report	9
Yield Trials Data	11
Agronomic Data	24
Birds'-foot Trefoil	
Current Status of Varieties	36
Yield Trials Data	37
1984 Birds'-foot Trefoil Deletions	41
Agronomic Data	42
Red Clover	
Current Status of Varieties	45
Yield Trials Data	46
1984 Red Clover Deletions	49
Agronomic Data	50
White Clover	
Current Status of Varieties	51
Yield Trials Data	52
Agronomic Data	55
Brome Grass	
Current Status of Varieties	58
Reed Canary Grass	
Current Status of Varieties	59
Orchardgrass	
Current Status of Varieties	60
Orchardgrass Summary	61
Yield Trials Data	62
Agronomic Data	69
Timothy	
Current Status of Varieties	70
Yield Trials Data	71
Agronomic Data	84
Meadow Foxtail	86
Ontario Forage Seed Survey	87

1984 Report of Forage Crops Trials

Ontario Forage Crop Committee

compiled by

M. A. Faris
Variety Sub-Committee Chairman
Ontario Forage Crop Committee
Research Scientist, Ottawa Research Station
Forage Bldg. # 12
Ottawa, Ontario K1A 0C6

INTRODUCTION

This is the 1984 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.

OFCC trials came through the 1983 winter in excellent condition which resulted in the availability of enough data to overcome previous years limitations. Therefore 18 alfalfa entries were supported for licensing. Some of the supported entries carry various levels of resistance to different disease which is befitting with the new direction taken for alfalfa breeding in Canada.

Other forage species did not have new entries to be supported. However, some entries of other forage species will be re-examined in 1985.

Ontario Forage Crop Committee

Variety Sub-Committee

Executive and Coordinators

Dr. M. A. Faris
Chairman, Variety Sub-Committee

Mr. H. C. Wright
Secretary, O.F.C.C.

Dr. Steve Bowley
Alfalfa Coordinator

Dr. B. R. Christie
Timothy Coordinator

Mr. J. Madill
Red and White Clover and Birds'-foot
Trefoil Coordinator

Mr. R. Suitor
Brome Grass and Reed Canary-Grass
Coordinator

Dr. A. McElroy
Orchardgrass Coordinator

Testing Locations

Kapuskasing (705) 335-6148
Thunder Bay (809) 939-2523
Ridgetown (519) 674-5456
Kemptville (613) 258-3411
New Liskeard (705) 647-6701
Guelph (519) 824-4120
Ottawa (613) 995-8728

Organization

Ottawa Research Station
(613) 995-8728

Plant Industry Branch
O.M.A.F.
(519) 824-4120

Crop Science Department
University of Guelph
(519) 824-4120

Crop Science Department
University of Guelph
(519) 824-4120

Kemptville College of
Agricultural Technology
(613) 258-3411

Ottawa Research Station
(613) 995-8728

Ottawa Research Station
(613) 995-8728

Name of Cooperators

Dr. J. Proulx; Mr. L. Guillemette
Mr. J. Wilson
Mr. A. McLaren
Mr. J. Madill
Mr. A.V. Skepasts
Dr. B. R. Christie; Dr. S. Bowley
Dr. M. A. Faris; Dr. A. McElroy;
Mr. R. Suitor

This report is obtainable from:

Mr. H. C. Wright
Secretary, O.F.C.C.
c/o Crop Science Dept.
University of Guelph
GUELPH, Ontario
N1G 2W1
Tel.: (519) 824-4120 Ext. 2513

EARLY ALFALFA VARIETIES

CURRENT STATUS OF VARIETIES - Dec. 1, 1984

Recommended in Publication 296

Anchor	Angus	Answer	Apica	Apollo
Banner	Ceres	Citation	Classic	Hunter
Pacer	Peak	Primal	Regal	Saranac
Thor	Trident	Trumpetor	Turbo	Vista
130	532	Spectrum	Blazer	WL316

Unrecommended Varieties

<u>Code</u>	<u>Variety</u>	<u>Entered by</u>	<u>Official Station</u>	<u>of Data</u>
1097	76-105	U. of Guelph	Support for lic., Def (3)	-
1106	PS79049	Pickseed	Support for lic. Def. (2)	
1119	77-101	U. of Guelph	Support for lic. Def. (1)	
1115	Comsel	Ottawa	Support for lic. Def. (1)	
1120	Armor	Oseco	Support for lic. & Rec.	9 + 1*
1121	WL315	King & Speare	No support, test. completed	9 + 2*
1122	77-8CaB	King & Speare	No support '84 reexamine '85	9 + 2*
1123	Ca670-71(Acclaim)	Pickseed	Support for lic. & rec.	9 + 2*
1124	80334(Preserve)	N.K.	Support for lic. & rec.	9
1125	OT78-1	Ottawa	No support, testing completed	9
1126	OT78-2	Ottawa	No support, testing completed	9
1152	OT81-1	Ottawa	Not eligible, reexamine '85	9
1153	Hardy	Ottawa	No sup. insuf. bact. wilt res.	4
1154	SC3704	Ottawa	No sup. insuf. bact. wilt res.	11
1146	UCS-13(Excalibur)	U.C.O.	Support for lic. & rec.	11
1145	Exp. 8015(DK-135)	Dekalb	Support for lic. & rec.	11
1143	Gemini	Pickseed	No sup. insuf. bact. wilt res.	11
1144	79005	Pickseed	No sup. reexamine '85	11
1142	Oseco 79-9,5	Oseco	No sup. reexamine '85	11
1141	Cimarron	Oseco	No sup. reexamine '85	11
1139	LSC 214	Landis	No sup. reexamine '85	11
1140	LSC 215	Landis	No sup. reexamine '85	11
1138	Apollo II	Oseco	Sup. for lic. & rec.	11

Early Alfalfa Varieties (Cont'd)

<u>Code</u>	<u>Variety</u>	<u>Entered by</u>	<u>Official Status</u>	<u>of Data</u>	Station	Year
1135	OAC 80-105	U. of Guelph	No sup. insuf bact wilt res.	11		
1147	VS25(Star)	Pickseed	Sup. for lic. & rec.	11		
1157	WWB 31	Oseco		5		
1164	Ca760	King		5		
1165	81T21	King		5		
1158	92-1981-1	Pickseed		5		
1159	CW140	Pickseed		5		
1160	NAPB 110	Pickseed		5		
1161	NAPB 108	PAG Seeds		5		
1162	LSC 309	Landis		5		
1163	OSX2-9113	Oseco		5 + 1*		
1167	OAC 81-120R	U. of Guelph		5		
1168	OAC 81-119R	U. of Guelph		5		
1192	CGA 8401	Ciba Geigy		0		
1193	CGA 8403	Ciba Geigy		0		
1184	NY8302	Cornell		0		
1180	LL3018	Dekalb		0		
1181	LL3110A	Dekalb		0		
1182	Ca 7931-32	King Grain		0		
1183	82-5	King Grain		0		
1195	KG 841	King Grain		0		
1194	N2420	Namec		0		
1187	ICB 31	Oseco		0		
1188	NAPB 22	Oseco		0		
1189	NAPB 23	Oseco		0		
1190	NAPB 20	Pickseed		0		
1191	NL78W-1	Pickseed		0		
1178	XAR21	Pioneer		0		
1205	Derby	Speare		0		
1166	81-120	U. of Guelph		0		
1185	OT83-4	Ottawa		0		
1179	LSC305	Landis		0		

MEDIUM ALFALFA VARIETIES

CURRENT STATUS OF VARIETIES - Nov. 1, 1984

Recommended in Publication 296

Algonquin	Glory	Iroquois	Magnum	Weevlcheck
Titan	Valor	Vernal	WL 215	
129	524	526	OAC Minto	

Unrecommended Varieties

<u>Code</u>	<u>Variety</u>	<u>Entered by</u>	<u>Official Status</u>	<u>Station Years of Data</u>
1128	NAPB 90 (Thunder)	Oseco	Sup. for lic. & rec.	9 + 1*
1129	MLM 02042	Pickseed	Sup. for lic. & rec. Defer (1)	9
1130	WL 221	King & Speare	No sup. test completed	9 + 2*
1131	Ca838	King & Speare	Sup. for lic. & rec. Defer (1)	9 + 2*
1132	77T1	King & Speare	No sup. reexamine '85	9 + 2*
1133	80335 (Drummor)	N.K.	Sup. for lic. & rec. Defer (1)	9
1134	79172 (Prowler)	King Grain	No sup., reexamine '85	9
1137	Far-14	Ottawa	Sup. for lic. & rec. Defer (1)	9
1155	Comsel	Ottawa	Sup. for lic. & rec. Defer (1)	11
1156	SC Poly 2	Ottawa	Sup. for lic. & rec. Defer (1)	11
1151	79003	Pickseed	Sup. for lic. & rec. Defer (1)	11
1150	Oseco 79-12,5	Oseco	Sup. for lic. & rec. Defer (1)	11
1149	LSC 216	Landis	Sup. for lic. & rec. Defer (1)	11
1148	Ca744	King Grain	No sup. reexamine '85	11
1169	XAF12	Pioneer		5 + 1*
1170	79001	Pickseed		5

Medium Alfalfa Varieties (cont'd)

<u>Code</u>	<u>Variety</u>	<u>Entered by</u>	<u>Official Status</u>	<u>Station Years</u>	<u>of Data</u>
1171	80012	Pickseed			5
1172	CW241	Pickseed			5
1173	LSC 110	Landis			5
1174	LSC 308	Landis			5
1175	OSX2-9114	Oseco			5 + 1*
1176	VW 33-2	Ottawa Res. Stn.			5
1177	OT83-3	Ottawa Res. Stn.			5
1293	CGA 8402	Ciba Geigy			0
1198	Mohawk	Cornell			0
1199	NY8301	Cornell			0
1197	NAPB21	King Grain			0
1179	LSC 305	Landis			0
1204	N3150	Nemic			0
1196	NK82503	N.K.			0
1202	82001	Pickseed			3
1200	OT 84-4	Ottawa			0
1201	OT 83-2	Ottawa			0
1136	OT 83-1	Ottawa			0

*Private Data

Ottawa Bacterial Wilt Rating (mean of 1983 and 1984)

ENTRY	DSIT	(% Resistant)
Dupuits	3.1	0
Gemini	2.9	(4)
Hardy	2.8	(4)
OT-83-3	2.2	(6)
OAC 80-105	1.8	(19)
SC3704	1.7	(20)
02-1981-1	1.5	(35)
OAC 81-119R	1.3	(32)
78015	1.3	(34)
CW140	1.3	(37)
VS25	1.2	(26)
78T4	1.2	(34)
OAC 81-120R	1.2	(31)
VW-33-2	1.2	(32)
8015	1.2	(32)
Vernal	1.1	(36)
CW241	1.1	(29)
80012	1.1	(33)
OT81-1	1.1	(32)
OSECO 79-12-5	1.1	(34)
Cimarron	1.1	(36)
Comsel	1.1	(37)
LSC308	1.0	(35)
LSC216	1.0	(29)
CW940	1.0	(42)
Apollo II	1.0	(37)
OSX 2-9114	1.0	(39)
79005	1.0	(37)
UCO 10 <i>Excelsior</i>	1.0	(38)
OSECO 79-9-5	1.0	(38)
CA744	1.0	(34)
XAF12	0.9	(39)
SC POLY 2	0.9	(46)
WWB31	0.9	(59)
79003	0.9	(45)
LSC215	0.8	(44)
CA760	0.8	(39)
LSC214	0.8	(45)
LSC110	0.8	(43)
OSX2-9113	0.8	(43)
LAB 75	0.8	(46)
81T21	0.8	(46)
79001	0.8	(48)
NAPB110	0.7	(46)
NAPB108	0.7	(52)
LSC309	0.6	(55)
LSD (10%)	0.19	

[†] Average DSIT (disease severity index for bacterial wilt, 16 replications
(8 x 2 years)

Ontario Forage Crops Committee
1984 Verticillium Wilt Trial Results*

Cultivar	No. plants tested	No. plants rated per class (scale 1-5)					% Resistance (plants rated 1)	Disease Severity Index
		5	4	3	2	1		
Vertus	94	35	8	25	11	15	15	3.4
- resistant check								
Vernal	100	34	13	37	11	5	5	3.6
- susceptible check								
Trumpetor	100	25	17	32	5	21	21	3.2
- OFCC check								
81-120R	99	4	4	24	14	53	53	1.9
NY8301	101	5	5	33	19	39	39	2.2
81-119R	104	5	2	40	18	39	39	2.2
81-120	98	7	4	26	26	35	35	2.2
XAR21	100	1	0	37	27	35	35	2.0
NAPB20	101	7	8	28	31	27	27	2.4
NAPB21	100	8	7	43	16	26	26	2.6
CW241	99	9	5	31	29	25	25	2.4
NAPB22	101	9	3	22	42	25	25	2.3
NAPB23	102	8	7	53	9	25	25	2.6
NAPB110	99	9	9	46	14	21	21	2.7
UCO10	102	3	10	58	13	18	18	2.7
CW140	101	24	12	38	10	17	17	3.2
N3150	101	9	14	22	39	17	17	2.6
WWB31	99	4	9	54	16	16	16	2.7
N2420	100	17	8	50	12	13	13	3.0
CGA8401	100	10	10	57	11	12	12	3.0
ICB31	102	9	14	50	18	11	11	2.9
KG841	98	12	5	54	16	11	11	2.9
LL3018	101	3	6	70	12	10	10	2.8
Derby	102	21	16	29	28	8	8	3.1
CGA8402	103	27	9	53	8	6	6	3.4
NK82503	105	7	12	65	15	6	6	3.0
OT84-4	102	27	27	28	14	6	6	3.5
LL3110A	102	4	6	73	14	5	5	2.9
WL78W-1	101	6	4	79	7	5	5	3.0
82-5	96	15	10	62	5	4	4	3.3
78T4	99	15	13	57	10	4	4	3.2
Apollo II	104	15	13	66	6	4	4	3.3
8015	98	33	10	40	12	3	3	3.6
Ca7931-32	103	11	14	71	4	3	3	3.2
V525	102	11	17	61	11	2	2	3.2
CGA8403	100	22	15	57	6	0	0	3.5

*Trial conducted by Elizabeth Smith and Dr. Greg Boland, Environmental Biology, University of Guelph.

Correction from 1983 report

Alfalfa yield trial (Early). Experiment 2822

Guelph 1983 yield data. Seeded 1981

Entry	Dry matter yield (kg/ha) 1983		Total (kg/ha) 1983
	Cut 1	Cut 2	
OAC 77-101	4433	4523	8956
CA 670-71	3686	4841	8527
PEAK	3732	4701	8433
Multileaf	3931	4499	8431
130	3361	4860	8222
Citation	3847	4365	8212
80334	3213	4974	8187
78013	3895	4187	8082
LSC 004-E	3605	4432	8038
75T12	3086	4879	7965
LAB 75	3014	4926	7941
OAC 76-105	3216	4679	7895
WL 315	3533	4353	7886
LSC 003-E	3294	4526	7819
CW 940	2962	4809	7771
Armor	3001	4744	7745
77-8 CAB	3222	4521	7743
LSC 008-E	3301	4275	7576
WL 313	3521	3974	7495
* OT 78-1	2937	4515	7452
Trumpetor	2965	4468	7433
79049	3094	4302	7397
Saranac	2732	4529	7261
Banner	2688	4437	7125
* OT 78-2	2187	4195	6382
LSD 5%:	702	564	928
Mean :	3298	4541	7839
C.V.% :	15.1	8.8	8.4

Correction from 1983 report

Alfalfa yield trial (Medium). Experiment 2823

Guelph 1983 yield data. Seeded 1981

Entry	Dry matter yield (kg/ha) 1983		Total (kg/ha) 1983
	Cut 1	Cut 2	
LSC 007	4717	4056	8773
526	4357	4206	8563
CA 838	3940	4381	8321
CW 6306	3920	4248	8168
79172	4397	3755	8152
LSC 7801	3876	4220	8096
* OAC 76-102	3928	4117	8045
LAB 78	3689	4351	8040
* ONEIDA	3943	4028	7972
02042	3646	4239	7886
Iroquois	3683	4082	7766
LSC 006	3876	3880	7757
LUZ 84	3699	4031	7730
WL 221	3737	3858	7595
524	3265	4298	7563
520	3316	4207	7522
79-051	3627	3836	7462
NAPB 90	3187	4055	7242
FAR 1-14	3299	3860	7160
* 79161	3016	4047	7063
80335	2939	4074	7013
CW 927	3027	3884	6911
77T1	2847	3739	6585
MLM02025	2619	3889	6508
LSD 5%:	662	508	987
Mean :	3606	4056	7662
C.V. :	13.1	8.9	9.2

1982 Early/Medium Alfalfa Licensing Trials. 1984 Yields, kg/ha

Entry	Cut 1		Total	
	Ridgetown	Guelph	Ridgetown	Guelph
Saranac	6266	5188	13199	12545
Banner	6746	4948	13938	12200
77-8CaB	6717	4934	14046	11851
Spectrum	6604	4975	13869	11793
Armor	7375	5080	14663	12441
WL-315	6671	4869	13438	12011
Ca760-71	6645	4898	14050	12436
80334	6823	5065	14001	12403
OT78-1	6726	4843	13683	12033
OT78-2	6312	4645	13075	11489
OT81-1	6392	4906	13359	12087
Hardy	5576	5071	11357	11678
SC3704	6068	5103	12218	10330
UCO-10	6974	5380	14339	12740
DK-135	7029	5267	14492	12661
Gemini	6199	5054	12770	12847
79005	6539	5060	13672	12042
OSECO 79-9,5	6617	4947	13798	12161
Cimarron	6516	4842	13862	12113
LSC 214	6668	5107	13648	11230
LSC 215	6807	4938	14248	11807
Apollo II	6896	4811	14043	12043
T8T4	6523	5058	13648	12533
OAC 80-105	5744	4746	12501	11397
US25	6395	5023	13377	12268
Iroquois	6304	4948	13123	12144
520	6479	5236	13358	12752
Thunder	6878	5079	14068	12011
MLM 02042	6617	5002	13570	12462
WL 221	6867	5298	14249	12565
Ca838	6754	5032	14083	12171
77T1	6695	4681	13712	11134
80335	6835	5208	14222	12158
Prowler	6668	5076	12961	12425
FAR-14	6406	5078	13481	12727
Comsel	6618	5018	14170	12213
SC Poly 2	6569	5133	13645	11778
79003	6481	4954	13210	12410
OSECO 79-12,5	6792	5150	13715	12483
LSC 216	6624	5125	13678	12389
Ca744	6283	4972	13564	12107
526	7050	5314	14271	12912
CV (%)	7.1	5.4	4.4	6.1
LSD (5 %)	651	377	835	1045

1982 Medium Alfalfa Licensing Trial, Kemptville
1984 Yields (kg/ha)

Entry	Cut 1	Total
Pioneer 526	6555	14257
NAPB 90 (Thunde)	6448	14544
02042	6482	14222
WL 221	6290	13848
CA 838	6445	14232
77T1	5874	13174
80335	6374	14145
79172 (Prowler)	5824	12496
FAR 1-14	6024	13695
Ca 744	6243	13733
LSC 216	6400	13937
OSECO 79-12,5	6077	13763
79003	6299	13811
Comsel	6396	13806
SC Poly 2	6149	13791
Iroquois	6394	13998
Pioneer 520	5995	13654
CV (%)	4.3	3.4
LSD (5%)	383	671

1983 Early Alfalfa Licensing Trials, 1984 Yields (kg/ha)

Entries	Cut 1					Total				
	Ridgetown	Guelph	Kemptville	Ottawa	Kapuskasing	Ridgetown	Guelph	Kemptville	Ottawa	Kapuskasing
Saranac	5796	5865	5731	8541	4243	13659	12562	13049	15829	6885
Banner	6815	4681	5938	7572	4581	14483	11268	13323	15102	7530
OT81-1	6672	5342	5559	7505	4024	14270	11822	12378	14310	6455
SC3704	6167	5474	5516	7838	4910	12634	11302	10806	13964	6881
UCO-10	6543	5625	6116	8845	4834	14413	12782	13466	15509	7562
OK-135	6616	5257	5351	7534	4290	14830	12014	12560	14298	6873
Gemini	5768	4745	5650	8474	4099	13626	11671	12246	15581	6604
79005	6556	5042	5522	8113	4743	14548	11895	12634	15029	7234
79-9,5	6972	5234	5257	8037	4153	14392	12307	12181	14590	6572
Cimarron	6335	5022	5245	7771	4351	14434	11671	12417	14828	7255
LSC 214	6204	5211	5606	7942	3859	13707	12377	12634	14928	6320
LSC 215	7225	4975	5843	7667	3797	14775	12296	13074	15118	6512
Apollo II	6798	5039	5319	7971	4406	14614	11491	12110	15167	7233
78T4	6858	4880	5424	8018	4562	14532	11683	12043	15156	7210
OAC 80-105	5563	4015	4933	6773	3838	12994	10464	11636	13658	5793
VS-25	6725	4952	5904	9016	5151	14452	11679	12788	16183	7829
WWB-31	5690	5281	5553	7809	4513	13565	12055	12353	15119	7219
OSX2-9113	6392	5488	5763	8198	4624	14587	12598	12786	15014	7355
Ca760	6992	5108	5516	8503	4535	15136	12203	12370	15691	7052
81T21	6377	5047	5044	7514	3720	14110	12115	11720	14362	6566
02-1981-1	6646	5627	5659	8332	4081	14709	12942	13445	15370	6974
CW140	6917	5491	5457	8503	4366	15348	12474	12082	15288	6973
NAPB 110	6441	5491	5570	8816	3951	14631	12221	12289	16649	6710
NAPB 108	6611	5045	5174	7667	4184	14459	11990	11677	13917	7242
LSC 309	6973	5638	5795	7971	4147	14695	12687	12654	15452	7590
OAC 81-120R	5900	4768	5684	7980	3962	13289	11590	12717	15138	6686
OAC 81-119R	6897	4667	5406	7021	4454	14355	11263	11120	13652	6922
Trumpetor	6765	5363	5716	6954	4212	14425	12245	12927	12820	6905
Hunter	6275	5189	5471	9221	4419	13819	12114	12565	16410	7174
CV (%)	6.9	6.8	6.0	14.3	15.1	5.2	5.4	3.9	12.4	11.9
LSD (5%)	733	496	469	1628	918	1205	916	688	2626	1167

1983 Medium Alfalfa Variety Trials, 1984 Yields (kg/ha)

Entry	Cut 1					Total				
	Ridgetown	Guelph	Kemptville	Ottawa	Kapuskasing	Ridgetown	Guelph	Kemptville	Ottawa	Kapuskasing
Iroquois	6501	4895	4501	8165	4545	13290	11360	11255	14692	7257
520	6613	4888	4598	7758	4384	12588	11198	11021	14127	6773
Comsel	6516	5380	4611	7891	4023	13224	12278	11056	15255	6657
SCPoly 2	6399	5184	4672	7447	3857	13224	11630	11132	14601	6424
79003	6486	4950	4187	7957	4782	13046	11289	10752	14421	7408
79-12,5	6763	5195	4419	7371	4003	13756	11466	10578	14545	6596
LSC 216	7085	4925	4673	7456	4088	13904	11540	11323	14819	6923
Ca744	7170	4451	4200	7314	4322	14382	10780	10184	14173	6934
XAF12	7175	5013	4732	7806	5107	13665	11585	11128	15077	7546
79001	7081	5074	4320	6936	3906	13849	11771	10491	13696	6377
80012	6318	4965	4124	6842	3693	13596	11433	10183	13597	5951
CW241	6700	5348	4163	8543	4634	13748	12025	10904	16213	7159
LSC 110	6197	4687	4750	7806	4396	12235	10937	11105	14937	6448
LSC 308	6735	5439	4569	7702	4578	13560	12304	10927	14967	7092
OSX2-9114	6458	5215	4209	8004	3586	13001	11707	10432	15259	6049
VW33-2	7193	4708	4290	7569	4247	13695	10526	10396	13636	6612
OT83-3	5870	4945	4480	7229	4362	11882	11089	10821	13911	6653
Glory	6774	5275	4641	8014	4106	13883	11855	11113	14954	7257
CV (%)	6.2	7.2	6.7	7.0	14.6	5.5	4.2	3.3	7.1	10.6
LSD (5%)	686	518	424	765	881	1216	694	501	1465	1017

1982 Early Alfalfa Variety Trial, Kemptville
1984 Yields (kg/ha)

Entry	Cut 1	Total
Saranac	6773	13162
Banner (Pioneer)	6447	13425
Apica (S.Q.Syn)	6732	13983
Regal (Hi-Phy)	6228	12784
Pioneer 532	6594	13270
OSECO 75T12	6168	13130
Armor	6224	13074
WL 315	6455	12489
77-8 CAB	6418	13341
Ca 670-71	6380	13176
80334	6371	13318
OT 78-1	6186	12425
OT 78-2	6486	12967
OAC 80-105	5792	10278
78T4	6293	13360
Apollo II	6218	12535
LSC 214	6310	12738
LSC 215	6713	13569
Cimarron	5866	12699
OSECO 79-9,5	6121	13682
Gemini	6502	13444
79005	6153	12968
8015 (DK-135)	6316	13465
UCO 10	6238	13035
VS 25	6531	13470
SC 3704	6398	11838
CV (%)	6.5	6.0
LSD (5%)	678	1279

1983 Medium Alfalfa Performance Trial, Ottawa
1984 yields (kg/ha)

Entry	Cut 1	Total
Dekalb 120	7966	16225
Algonquin	7106	14972
Pioneer 520	7858	16394
Pickstar	7815	16554
Valor	7751	15971
Weevlchek	8192	16245
Pioneer 524	7944	16373
Vernal	7568	15463
Iroquois	8256	16165
Titar	8009	16163
Glory	8493	16592
WL 215	7170	14792
Magnum	7966	15832
CV (%)	9.2	5.6
LSD (5%)	1033	1292

NORTHRUP KING SEEDS LTD.

Sept. 5/84

1983 RED CLOVER OFFICIAL TRIAL SUMMARY

<u>VARIETY</u>	<u>1ST CUT KG/HA</u>	<u>2ND CUT KG/HA</u>	<u>TOTAL KG/HA</u>	<u>% CHECK</u>
W113	7446	3784	11230	101.0
Florex	7373	3743	11116	100.0
Prosper 1	7063	3825	10888	97.9
W115	7039	3784	10823	97.4
W116	7039	3621	10660	95.9
YKYC	6632	3743	10375	93.3
W111	6266	4028	10294	92.6
Common	6453	3458	9911	89.2
Grand Mean	6914	3748	10662	95.9

Reps with Data	3	3	3
Treatments with Data	8	8	8
Missing Plots	0	0	0
Variable Plots	0	0	0
C.V.%	11.22	9.32	8.61
LSD	1358	612	1608

Design: Randomized Complete Block
Seeding Method: 5 row plot seeder
Herbicide: Treflan 1.5 l/ha
Plot Size: 5.4 m x 1.4 m
Soil Type: Silt loam
Harvest Dates: Cut 1 - June 15
Cut 2 - July 24
Fertilizer: 200 kg/ha 0-44.5-0 preplant
300 kg/ha 0-25-25 July/83

King Grain Alfalfa Licensing Trial, Chatham 1982 Seeding, 1983 Yields

<u>Variety</u>	<u>Yield (kg/ha)</u>	<u>Total</u>
	Cut 1	
Banner	9453	16,666
78T4	9688	16,588
CA744	10286	17,526
WL315	8281	15,521
WL221	8854	16,042
77-8CaB	9688	16,693
Iroquois	10052	17,318
CA670-71	10286	17,370
CA838	10156	17,448
77TI	9557	16,953
CA8003	9792	16,797
CA8006	9453	16,615
Saranac	9792	17,083
80T12	9922	17,188
CA8106-7	8385	15,495
81T9	8620	15,729
81T10	9557	16,745
81T11	9688	16,901
520	9089	16,380

King Grain Alfalfa Licensing Trial Chatham 1982 Seeding, 1984 Yields

Cultivar	Yield (kg/ha)			
	Cut 1	Cut 2	Cut 3	Total
Banner	7418	4191	4873	16482
78T4	6868	4165	5100	16133
Ca744	6639	3932	5138	15709
WL315	7097	4114	5175	16386
WL221	7074	4217	5100	16391
77-8CaB	6594	4114	5138	15845
Iroquois	7006	4165	4684	15855
Ca670-71	7281	4217	5251	16748
Ca838	7029	3932	5024	15985
77T1	6662	3829	5138	15629
Ca8003	6456	3958	5062	15477
Ca8006	6594	3932	5251	15777
Saranac	6685	3984	4798	15467
80T12	6731	3829	4911	15471
Ca8106-7	6731	4088	5100	15918
81T9	7235	3907	4949	16090
81T10	7120	4010	5138	16268
81T11	7029	4088	5100	16216
520	7258	3932	4571	15761
CV (%)	9.6	5.1	7.5	6.5
LSD (5%)	792	244	449	1239

Pioneer Alfalfa Licensing Trial, Chatham 1982 Seeding, 1983 Yields

<u>Variety</u>	<u>Yield (kg/ha)</u>			
	Cut 1	Cut 2	Cut 3	Total
80V-1	9240	4449	4000	17689
80A-1	8979	4392	3754	17125
526	9191	4409	3508	17108
Y79C-1	9126	4403	3459	16988
80D-1	9289	4278	3394	16961
X78D-1	8995	4449	3508	16952
80Y-1	8685	4449	3722	16856
80C-1	8767	4551	3525	16843
80P-1	8913	4278	3574	16765
Saranac	8734	4255	3754	16743
80B-1	8473	4449	3787	16709
X78G-1	8456	4432	3754	16642
80H-1	8750	4318	3476	16544
80R-1	8179	4392	3819	16390
80E-1	8375	4392	3623	16390
Y79Y-1	8456	4193	3738	16387
Y79Z-1	8636	4227	3508	16371
80X-1	8685	4181	3492	16358
520	8554	4193	3607	16354
Banner	8391	4289	3590	16270
532	8522	4221	3459	16202
524	8114	4341	3705	16160
Iroquois	8554	4232	3328	16114
80F-1	8554	4073	3426	16053
Y79F-1	8163	4375	3459	15997
80G-1	8212	4301	3476	15989
Y79D-1	8358	4062	3459	15879
CV (%)	6.8	3.6	5.3	3.2
LSD 5%	827.76	221.82	267.72	742.12

Pioneer Alfalfa Licensing Trial Chatham, 1982 Seeding, 1984 Yields

Cultivar	Yield (kg/ha)			Total
	Cut 1	Cut 2	Cut 3	
80G-1	5758	3644	3489	12890
479F-1	6110	3667	3444	13223
80Y-1	6204	3944	3503	13651
80A-1	6215	3781	3680	13677
80C-1	6016	3756	3400	13173
524	5864	3644	3606	13114
526	6133	3706	3651	13490
520	6028	3719	3665	13412
X780-1	6039	3856	3768	13664
80B-1	6286	3931	3651	13868
80X-1	6016	3769	3547	13332
Y790-1	6086	3719	3592	13397
80R-1	6168	3907	3783	13858
80F-1	5969	3581	3709	13259
XAR-21	6602	3919	3651	14172
80H-1	6250	3881	3562	13694
Saranac	6051	3869	3474	13394
X786-1	6215	3844	3827	13886
Y79C-1	5711	3756	3503	12971
Iroquois	6204	3581	2988	12773
Y794-1	6251	3744	3665	13660
80E-1	6321	3756	3621	13698
532	6063	3669	3386	13117
Banner	5981	3744	3429	13154
80D-1	6509	3706	3386	13600
80P-1	6251	3681	3533	13464
Y792-1	6168	3719	3533	13420
CV (%)	6.6	3.5	8.1	3.0
LSD (5%)	571	183	407	576

Pioneer Alfalfa Licensing Trial, Chatham 1983 Seeding, 1984 Yields

Cultivar	Yield (kg/ha)			
	Cut 1	Cut 2	Cut 3	Total
526	6035	4013	4004	14052
Y79C-1	6483	4228	4023	14735
520	6344	4175	4004	14522
81V-1	6623	4300	3847	14769
81I-1	6406	4425	4180	15012
81Y-1	6406	4479	4180	15065
80P-1	6530	4121	4043	14693
78F-2	6468	4354	4082	14904
Iroquois	6205	4336	4122	14662
Saranac	6607	4497	3827	14931
81W-1	6189	4192	4180	14562
532	6514	4461	4180	15156
120	6545	4300	4239	15084
YAR22	6592	4425	4122	15138
YAR21	6282	4282	4337	14902
81A-1	6344	4407	4298	15050
Banner	6623	4336	4141	15099
81B-1	6421	4533	4259	15213
81F-1	6623	4515	4318	15455
Varmae	5895	3834	3866	13596
524	6298	4157	3925	14379
81E-1	6777	4389	4239	15406
81G-1	6050	4604	4259	14913
81D-1	6359	4479	4141	14980
81R-1	6421	4318	4082	14822
81A-1	6359	4443	3925	14728
80E-1	6452	4318	3965	14735
XAF12	6437	4372	4102	14910
81C-1	5942	4407	4082	14431
CV (%)	8.2	4.3	5.0	4.0
LSD (5%)	853	306	335	969

OSECO Alfalfa Licensing Trial, Plattsburgh 1981 Seeding, 1982 Yields

Variety	Yield (kg/ha)			Total
	Cut 1	Cut 2	Cut 3	
NAPB 90	6038	4202	3049	13289
Iroquois	5905	4418	2914	13237
OSX-2-9114	5895	4211	3061	13168
OSX-2-9113	5829	4032	3110	12971
Banner	5467	4427	3074	12967
520	6257	3771	2829	12857
Saranac	5819	3789	3233	12841
Armor	5610	4130	3086	12826
LS79-24	5505	4247	3061	12813
75 T12	5391	4184	3221	12795
79-125	5438	3888	3282	12608
LS79-31	5419	4095	3086	12599
79-95	5400	3980	3184	12564
LS79-94	5333	4247	2951	12532
LS79-78	5543	4139	2841	12523
LS79-56	5000	4400	3110	12510
LS79-68	5600	4041	2755	12396
LS79-84	5438	3906	2963	12307
71 T14	5076	3996	3110	12182
LS79-139	5200	3843	3123	12166
LS79-96	5276	3852	3000	12128
Composite B	5095	3942	3012	12049
LS0-22	5019	4077	2939	12034
LS79-97	4810	4157	2963	11930
LS79-14	4667	4256	2963	11886
LS79-1413	4924	3816	3012	11752
LS79-103	4610	4014	3037	11660
LS79-98	4571	4032	3049	11652
LS79-134	4467	3861	3086	11414
75T12 [Filler]	4467	4077	2816	11360
CV (%)	8.9	8.7	8.4	4.8

Visual ratings of fall regrowth (1 = poor to 5 = good) in 1984 of the
1982 alfalfa seedings (lattice design)

Entry	Fall Regrowth	
	Ridgetown (October 10)	Guelph (October 18)
* 520	3.3	3.3
* WL221	3.3	3.0
UCO 10	4.5	3.8
* FAR 14	3.3	3.8
Oseco 79-9,5	4.0	3.0
79005	2.8	3.0
Banner	4.5	4.0
Armor	3.3	3.8
* 77T1	2.3	2.8
VS25	3.5	3.8
Cimmarron	4.5	4.0
* 80335	3.3	2.8
SC 3704	1.0	1.0
Apollo II	3.0	3.0
8015	4.0	3.5
* Iroquois	2.8	3.0
Saranac	3.3	3.5
OT 78-1	3.8	4.0
* Ca 838	3.0	2.8
* Comsel	4.8	4.3
* SC Poly 2	3.0	2.8
* 79003	2.8	2.5
OT 78-2	4.5	3.8
78T4	4.3	3.8
* NAPB 90	2.3	2.8
OT81-1	3.5	3.3
* 79172	1.5	1.5
80334	3.0	3.0
* Ca744	3.0	3.0
Pioneer 526	3.0	3.0
OAC 80-105	5.0	5.0
Hardy	1.3	1.0
* Oseco 79-12,5	2.8	2.8
LSC 215	3.3	3.0
75T12	3.5	3.5
* 02042	3.3	3.3
77-8CaB	4.0	3.8
* LSC 216	3.5	3.3
LSC 214	4.5	3.5
Ca670-71	4.0	3.8
WL315	3.3	3.3
Gemini	4.3	4.0
Saranac	3.3	3.5
Banner	4.5	4.0
Iroquois	2.8	3.0
520	3.3	3.3
MEAN		
Early (26)	3.6	3.4
Medium (16)	3.0	3.0
LSD (5% = one tailed)	0.5	0.7

Kapuskasing 1983 Alfalfa Licensing Trials Flowering Date
(10% bloom) 1984

Early Alfalfa (Exp. 6489)			Medium Alfalfa (Exp. 6468)		
Cultivar	Date		Cultivar	Date	
WWB-31	July 9		XAF12	July 9	
02-1981-1	5		79001	10	
CW-140	8		80012	5	
NAPB-110	10		CW241	7	
NAPB-108	9		LSC110	8	
Hunter	9		LSC308	9	
LSC309	8		OSX2-9114	6	
OSX2-9113	8		Comsel	8	
CA760	6		SCPOLY 2	7	
81T21	8		79003	6	
OAC 81-120R	7		OSECO 79-12 ,5	8	
Trumpetor	5		LSC 216	8	
OAC 81-119R	9		CA 744	9	
OT81-1	8		Glory	7	
SC3704	11		VW 33-2	7	
UCO 10	7		*Iroquois	6	
8015	7		*520	7	
Gemini	6		OT 83-3	4	
79005	8				
*Banner	6				
OSECO 79-9 ,5	7				
Cimaron	8				
LSC-214	6				
LSC-215	6				
Apollo II	7				
*Saranac	7				
78T-4	7				
OAC 80-105	5				
VS 25	5				
Mean	7				7

Stem diameter in alfalfa, 1984 seeding, 1984 data

Cultivar		Width (mm)
	Elora †	Kapuskasing ‡
1	Anchor	1.3
2	Angus	1.8
3	Answer	1.4
4	Apica	1.7
5	Apollo	1.8
6	Ceres	1.7
7	Citation	1.7
8	Classic	1.9
9	130	1.7
10	Hunter	1.8
11	Pacer	1.8
12	Peak	2.0
13	532	1.8
14	Primal	1.9
15	Regal	1.8
16	Saranac	1.6
17	Thor	1.6
18	Trident	1.8
19	Trumpetor	2.0
20	Turbo	1.8
21	Vista	1.9
22	Algonquin	1.8
23	120	1.7
24	Glory	1.6
25	Iroquois	1.6
26	Magnum	1.6
27	Pickstar	1.8
28	524	1.8
29	526	1.6
30	Titan	1.9
31	Valor	1.7
32	Vernal	1.5
33	WL 215	1.7
34	Weevlchek	1.8
35	OAC Minto	1.9
	NS	NS

† mean stem diameter, second node, 15 cm section of row

‡ mean stem diameter, 7.5 cm above soil, 20 cm stem sample

Lodging ratingst of alfalfa trials at Guelph, May 30, 1984

	Exp. 2834 1982 Seeding		Exp. 2850 1983 Seeding		Exp. 2851 1983 Seeding
*Banner	N	*Banner	N	*Iroquois	N
*Saranac	N	*Saranac	S	*520	N
Armor	S	Trumpetor	M	Comsel	S
WL315	M	SC3704	S	ScPoly 2	M
77-8CaB	VS	UC010	M	79003	N
Ca670-71	S	Exp. 8015	VS	OSECO 79-12,5	S
80334	N	Gemini	N	LSC 216	M
OT78-1	VS	79005	M	Ca744	N
OT78-2	N	OSECO 79-9,5	VS	XAF12	N
OT80-1	VS	Cimarron	M	79001	M
Hardy	N	LSC 214	VS	80012	S
SC 3704	N	LSC 215	VS	CW241	S
UCO-10	N	Apollo II	S	LSC 110	N
Exp. 3015	N	78T4	M	LSC308	VS
Gemini	N	OAC 80-105	N	OSX2-9114	M
79005	M	VS 25	N	VW 33-2	N
OSECO 79-9,5	M	WWB31	S	OT83-3	M
Cimarron	N	Ca 760	VS	Glory	N
LSC 215	M	81T21	VS		
LSC 214	N	OAC 81-119R	S		
Apollo II	N	OAC 81-120R	VS		
78T4	N	02-1981-1	S		
OAC 80-105	M	CW140	S		
VS 25	N	NAPB110	S		
75T12	M	NAPB108	M		
526	M	LSC309	VS		
*520	M	OSX2 9113	S		
*Iroquois	N	OT81-1	VS		
NAPB90	M	Hunter	S		
MLM 02042	M				
WL221	VS				
Ca838	VS				
77TI	VS				
80335	M				
79172	N				
Far 14	M				
Comsel	M				
SC Poly 2	S.				
79003	M				
OSECO 79-12,5	S				
LSC 216	M				
Ca744	VS				

† N = none; M = modest; S = severe; VS = very severe

1981 Seeding Elora, 1984 Survival Ratings

<u>Expt. 2822. Early</u>		<u>Expt. 2823. Medium</u>	
Entry	% Surviving	Entry	% Surviving
OAC 77-101	90	520	90
WL313	95	WL221	85
75T12	75	Oneida	60
LSC004-E	85	LSC007	75
Multileaf	80	Iroquois	75
Peak	80	CW6306	65
Ca670-71	70	Lab 78	65
WL315	75	526	60
DeKalb 130	65	NAPB 90	60
		79161	50
LSC003-E	90	OAC 76-102	85
78013	80	CW927	70
Citation	80	Ca838	65
CW 940	70	MLM02042	60
OT-78-1	65	80335	55
Armor	60		
77-8 CaB	55	79-051	80
78015 (Trumpetor)	50	LSC7801	70
Lab 75	50	77T1	70
		79172	70
LSC008-E	75	LSC006	65
79049	60	Far 1-14	45
Saranac	55		
Banner	55	Luz 84	65
OAC 76-105	50	524	45
80334	45		
OT-78-2	45	MLM02025	40

PERSISTENCE 1981 SEEDING ELORA 1984 FIRST CUT YIELDS (KG/HA)

Exp. 2822 Early

OAC 77-101	5050
78013	4925
Citation	4758
Armor	4719
Peak	4648
130	4622
CW 940	4613
77-8 CaB	4583
WL 313	4573
79049	4461
Multileaf	4453
LSC 008E	4448
LSC 004E	4447
WL 315	4418
LSC 003E	4394
LAB 75	4362
80334	4347
Ca 670-71	4330
OT 78-1	4245
75T12	4194
Saranac	4173
OAC 76-105	4122
Trumpetor	4031
Banner	3934
OT 78-2	3751

Exp. 2823 Medium

520	5660
CW 6306	5507
Thunder	5425
LSC 007	5361
526	5320
79-051	5317
WL 221	5218
Lab 78	5165
Prowler	5160
Ca 838	5144
CW 927	5038
80335	4949
Iroquois	4889
02042	4863
Oac 76-102	4811
Oneida	4785
Lsc 006	4734
Far 14	4705
524	4675
M1m 02025	4634
77T1	4595
LSC 7801	4593
Luz 84	4518
79161	4468

Kapuskasing 1981 Early Alfalfa Performance Trial % survival, 1984 (Exp. 6465)

<u>Cultivar</u>	<u>% Survival</u>
Citation	65
Anchor	64
Primal	63
Vista	63
Angus	61
Pacer	54
Saranac	50
Classic	48
Thor	46
Apollo	39
Answer	36
Trident	36
Banner	36
Ceres	30

Kapuskasing 1981 Medium Alfalfa Performance Trial % survival, 1984 (Exp. 6465)

<u>Cultivar</u>	<u>% Survival</u>
Algonquin	66
Iroquois	64
120	61
Titan	59
520	55
Futura	53
Weevlchek	50
Valor	49
Vernal	49
Magnum	48
524	34
Pickstar	30
WL 215	29

Kapuskasing 1981 Early Alfalfa Variety Trial % survival, 1984 (Exp. 6488)

<u>Cultivar</u>	<u>% Survival</u>
77-101	68
78103	53
Multileaf	53
CW 940	52
79049	50
77-8CaB	49
Peak	39
Saranac	39
LSC008E	37
Citation	35
Armor	33
DK 130	32
OT 78-1	31
76-105	31
WL 315	31
WL 313	30
Banner	28
LSC003-E	28
Ca670-71	26
OT78-2	23
78015	21
LAB-75	21
75T21	21
LSC004-E	18
80334	11

#1082

RIDGETOWN - ALFALFA LICENCE - 1982 Seeding

Variety	Code	% Flower	
		June 18	July 21 - 1984
520	1504	34	7
WL221	1130	14	1
UCO 10	1146	23	7
FAR 14-1	1137	21	3
OSECO 79-9,5	1142	14	4
79005	1444	14	4
Banner	1022	33	8
Armor	1120	9	2
77T1	1132	11	1
VS25	1147	35	9
Cimarron	1141	24	5
80335	1133	9	5
SC3704	1154	9	6
Apollo 11	1138	21	3
8015	1145	20	5
Iroquois	1501	25	5
Saranac	1001	28	8
OT78-1	1125	11	2
Ca838	1131	10	3
Comsel	1155	21	5
SC Poly2	1156	18	4
79003	1151	15	5
OT78-2	1126	16	5
78T4	1136	24	9
NAPB90	1128	13	3
OT81-1	1152	16	3
79172	1134	11	3
80334	1124	20	8
Ca744	1148	11	3
Pioneer 526	1127	19	6
OAC80-105	1135	36	10
Hardy	1153	11	10
Oseco 79-12,5	1150	13	3
LSC 215	1140	26	4
75T12	1119	15	4
02042	1129	18	5
77-8CaB	1122	14	5
LSC216	1149	26	4
LSC214	1139	21	4
Ca670-71	1123	19	2
WL315	1121	25	8
Cemini	1143	44	10

#1089

RIDGETOWN - EARLY ALFALFA - 1983 Seeding - 1984

Variety	Code	% Flower	
		June 15	July 17
UOO 10	1146	7	5
SC3704	1154	5	2
78T4	1136	7	8
OAC81-120S	1167	12	5
Saranac	1001	12	7
Gemini	1143	12	10
LSC214	1139	10	5
Cimarron	1141	7	2
79005	1144	7	4
LSC215	1140	13	5
OAC81-119R	1168	2	4
8015	1145	8	7
Ca760	1164	8	8
LSC309	1162	5	5
CW140	1159	8	7
OSX2-9113	1163	10	5
OT81-1	1152	7	2
WMB31	1157	1	2
NAPB 110	1160	4	1
Apollo 11	1138	7	2
NAPB 108	1161	4	2
02-1981-1	1158	12	8
Trumpetor	1094	8	4
Hunter	1067	5	4
VS25	1147	12	8
Oseco 79-9,5	1142	7	5
Banner	1022	10	10
OAC80-105	1135	17	10
81T21	1165	4	4

#1090

RIDGETOWN - MEDIUM ALFALFA - 1983 Seeding
2nd Cut - 1984

Variety	Code	% Flower	
		June 15	July 16
Glory	1060	5	7
79001	1170	10	4
OSX2-9114	1175	8	7
OT-83-3	1177	8	5
80012	1171	5	4
Iroquois	1501	12	7
79003	1151	8	7
SC Poly 2	1156	13	4
VW-33-2	1176	8	7
XAF12	1169	10	4
LSC216	1149	8	5
520	1504	8	8
Ca744	1148	15	1
LSC308	1174	10	5
Comsel	1155	5	7
CW241	1172	8	5
Oseco79-12,5	1150	5	2
LSC110	1173	12	10

BIRDSFOOT TREFOIL VARIETIES

CURRENT STATUS OF VARIETIES - Dec. 1, 1984

<u>Code</u>	<u>Variety</u>	<u>Entered by</u>	<u>Official Status</u>	<u>of Data</u>	<u>Station Years</u>
	Empire	O.F.C.C.	Recommended, Publ. 296	-	
	Leo	O.F.C.C.	Recommended, Publ. 296	-	
	Maitland	O.F.C.C.	Recommended, Publ. 296	-	
	Viking	O.F.C.C.	Recommended, Publ. 296	-	
7029	NC-83 (Norcen)	O.F.C.C.	Supported for lic, Def.(4)	-	
7008	Dawn	NAPB	Not sup. testing completed	-	
7033	01004	Pickseed	Not eligible, examine '85	4 + 4	
7032	PS79055	Pickseed	Not eligible, examine '85	4 + 4	
	RC4SY2	U. of Guelph	Not eligible, examine '85	4 + 4	

Exp. 2597

1983 TREFOIL VARIETY TRIAL

Harvested 1984 - Elora

Code	Name	Cut 1	Cut 2	kg/ha Total	% of Check
7033	MLM 01004	7717.6	3900.8	11618.3	103.7
7001	Leo	6258.0	4943.5	11201.6	100.0
7003	Empire	6659.5	4519.2	11178.7	99.8
7004	Viking	6504.4	4610.0	11114.3	99.2
7010	Maitland	6385.2	4569.1	10954.3	97.8
7031	RC4 SYN2	6470.8	3932.9	10403.7	92.9
7032	PS79005	5502.9	3531.7	9034.6	80.7
LSD (0.05)		357.9	425.2	485.2	
CV		4.5	8.1	3.7	

Design - Randomized Complete Block

Seeding Method -

Herbicide -

Plot Size -

Soil Type -

Replication - 4

Harvest Dates - Cut 1 - June 23

Cut 2 - Aug. 24

Fertilizer -

A:TELOR8384

Exp. 1083

1983 TREFOIL VARIETY TEST

Harvested 1984 - Ridgetown

NET 83.84

Code	Name	Cut 1	Cut 2	kg/ha Total	% of Check
7033	MLM 01004	6970	4240	11210	103.2
7032	PS 79055	7042	3829	10871	100.1
7001	Leo	6791	4071	10862	100.0
7003	Empire	6864	3979	10843	99.8
7008	Dawn	6825	3974	10799	99.4
7004	Viking	6807	3964	10771	99.2
7010	Maitland	6398	3883	10282	94.7
LSD 5% (kg/ha)		572	328	759	
Total Mean		6814	3992	10805	
CV		5.6	5.5	4.7	

Design - Randomized Complete Block

Seeding Method -

Herbicide -

Plot Size -

Soil Type -

Replications - 4

Harvest Dates - Cut 1 - June 22

Cut 2 - Aug. 08

Fertilizer - N/L

Exp. 3077

1983 TREFOIL VARIETY TRIAL

Harvested 1984 - Kemptville

A: TKEMP83.84

Code	Name	Cut 1	Cut 2	kg/ha Total	% of Check
7001	Leo	5548	2569	8117	100.0
7033	MLM 01004	5182	2443	7625	93.9
7032	PS 79055	5455	2055	7510	92.5
7031	RC4 SYN-2	5350	1973	7323	90.2
7004	Viking	5195	2111	7306	90.0
7003	Empire	4978	2157	7135	87.9
7010	Maitland	5054	1977	7031	86.6
	LSD 5% (kg/ha)	414	297	608	
	Total Mean	5252	2183	7435	
	CV	5.3	9.1	5.5	

Design - Randomized Complete Block

Seeding Method - 8 row plot seeder

Herbicide - Eptam & 2,4-DB

Soil Type - North Gower Clay Loam

Replications - 4

Harvest Dates - Cut 1 - June 14

Cut 2 - July 24

Fertilizer - Fall '82 - 0-30-15 @ 300 lbs/acre

Fall '83 - 0-46-0 @ 300 lbs/acre

Exp. 8101

1983 TREFOIL VARIETY TRIAL

Harvested 1984 - New Liskeard

A:TNL83.84

Code	Name	Cut 1	Cut 2	kg/ha Total ↓	% of Check
7003	Empire	4495	4721	9216	102.6
7001	Leo	4848	4131	8979	100.0
7010	Maitland	5123	3804	8927	99.4
7031	RC4 SYN-2	4488	4375	8863	98.7
7032	PS 79055	4219	4548	8767	97.6
7033	MLM 01004	4476	3918	8394	93.5
7004	Viking	4071	3986	8057	89.7
LSD 5% (kg/ha)		617	444	520	
Total Mean		4531	4212	8743	
CV		9.2	7.1	4.0	

Design - Randomized Complete Block

Seeding Method -

Herbicide -

Plot Size -

Soil Type -

Replications - 4

Harvest Dates - Cut 1 - July 02

Cut 2 - Sept. 04

Fertilizer - 0-45-0

DELETIONS

1984 TREFOIL SUMMARY

Code	Name	Ridgetown '82 Seeded '84 Harvested	Kemptville '83 Seeded '84 Harvested	Elora '83 Seeded '84 Harvested	New Liskeard '83 Seeded '84 Harvested	Mean kg/ha	% of Check
7001	Leo	10862	8117	11201.6	8979	9790	100.0
7003	Empire	10843	7135	11178.7	9216	9593	98.0
7004	Viking	10771	7306	11114.3	8057	9312	95.1
7010	Maitland	10282	7031	10954.3	8927	9299	95.0

ELORA - TREFOIL SEEDLING VIGOUR - Seeded 1984 - Harvested 1984

CUT 1

EXP 2531 TREFOIL 1984 SEEDING, SEEDING YEAR (84) FIRST CUT

MEAN 3695.0 MINIMUM 2560.0 MAXIMUM 4468.8

C.V. 7.5 % ONE TAILED LSD (0.05) 340.1

SOURCE	DF	SS	MEAN SQUARE	F VALUE
TOTAL	27	4960347.11		
CULTIVARS	6	3241123.66	540187.28	7.02
REPLICATIONS	3	334551.38	111517.13	1.45
ERROR	18	1384672.07	76926.23	

CULTIVAR MEAN YIELD (KG/HA)

7001	LEO	3964.8
7003	EMPIRE	3042.1
7004	VIKING	3470.1
7010	MAITLAND	3652.3
7031	RC4 SYN2	4184.2
7032	PS 79005	3832.4
7033	MLM 01004	3719.1

SORTED

CULTIVAR MEAN YIELD (KG/HA)

7031	RC4 SYN2	4184.2
7001	LEO	3964.8
7032	PS 79005	3832.4
7033	MLM 01004	3719.1
7010	MAITLAND	3652.3
7004	VIKING	3470.1
7003	EMPIRE	3042.1

CULTIVAR	REP 1	REP 2	REP 3	REP 4	...
7001	4157.6	4101.4	3675.8	3924.5	
7003	3604.2	3022.3	2560.0	2982.0	
7004	3837.6	3458.0	3155.3	3429.3	
7010	3536.6	3550.0	3905.5	3617.2	
7031	4332.1	4061.0	3875.1	4468.8	
7032	3816.1	3638.9	3796.3	4078.5	
7033	3239.5	3758.1	3767.7	4111.1	
REP MEANS	3789.1	3655.6	3533.7	3801.6	

#6514

KAPUSKASING 1984 % TREFOIL IN STAND (VISUAL)

1982 BIRDSFOOT TREFOIL VARIETY TRIAL

Cultivars	R-1	R-2	R-3	R-4	\bar{X}
Maitland	20	40	40	65	41
Viking	20	40	20	50	33
Leo	70	80	80	90	80
Empire	30	70	50	80	58
PS 79055	40	40	30	20	33
MLM01004	70	80	70	65	71
Dawn	30	50	50	50	45

#1083

RIDGETOWN - BIRDSFOOT TREFOIL - 1982 Seeding

Variety	Code	Date 50% Flower
Maitland	7010	June 10
Viking	7004	10
Leo	7001	17
Empire	7003	19
PS79055	7032	16
MLM01004	7033	16
Dawn	7008	16

RED CLOVER VARIETIES

CURRENT STATUS OF VARIETIES - Dec. 1, 1984

<u>Code</u>	<u>Variety</u>	<u>Entered by</u>	<u>Official Status</u>	<u>Station Years</u>	<u>of Data</u>
	Arlingto	O.F.C.C.	Recommended, Publ. 296		-
	Florex	O.F.C.C.	Recommended, Publ. 296		-
	Lakeland	O.F.C.C.	Recommended, Publ. 296		-
	Ottawa	O.F.C.C.	Recommended, Publ. 296		-
	Prosper I	O.F.C.C.	Recommended, Publ. 296		-
4037	Kuhn	Landis		1 + 3	
4036	W116	King Grain		1 + 3 + 1*	
4034	W115	N.K.		1 + 3 + 1*	
4035	YKYC	N.K.		1 + 3 + 1*	
4038	BCHG 0384	Bonis		0 + 2	
4039	OT83-1	Ottawa Rs. St.		0 + 2	
4040	Molly	Bonis		0	
4045	Viola	Nemec		0	
4041	W-111	N.K.		0	
4042	W-113	N.K.		0	
4043	Violetta	Oseco		0	
4040	Reddy	U.C.O.		0	
4047	Hamidori 4N	King			
4046	Hamidori 2N	King			

* Private Data

Exp. 2594

'82 RED CLOVER VARIETY TRIAL

Harvested 1984 -- Elora

PARCELORD-84

Code	Name	Cut 1	Cut 2	kg/ha Total	% of Check
4015	Bytown	6215.4	2781.6	8996.9	104.5
4034	W115	5934.4	2780.1	8714.5	101.2
4017	Florex	5605.2	3002.8	8608.0	100.0
4036	W116	5447.6	3091.5	8539.1	99.2
4027	Prosper 1	5458.7	2894.8	8353.5	97.0
4035	YKYC	5136.8	2749.7	7886.5	91.6
4002	Lakeland	5210.1	2617.3	7827.3	90.9
4003	Ottawa	4767.4	3021.7	7789.1	90.5
4023	Arlington	4944.1	2554.3	7498.4	87.1
4037	Kuhn	4595.1	2223.2	6818.3	79.2
	LSD 5%	648.4	550.5	775.1	
	CV	10.1	16.5	7.9	

Design - Randomized Complete Block
Seeding Method - 5 row plot seeder

Herbicide - Eptam

Plot Size - 1.5 x 6.0 m

Soil Type - Silt loam

Replications - 4

Harvest Dates - Cut 1 - June 23, 1984

Cut 2 - Aug. 24, 1984

Fertilizer -

Exp. 8201

'83 RED CLOVER VARIETY TRIAL

A=RCNL83.84

Harvested 1984 - New Liskeard

Code	Name	Cut 1	Cut 2	kg/ha Total	% of Check
4034	W115	4047	5479	9525	117.5
4037	Kuhn	4218	4595	8813	108.7
4027	Prosper 1	3786	4801	8587	105.9
4023	Arlington	3506	5031	8537	105.3
4036	W116	3860	4669	8529	105.2
4038	BCHG0384	4530	3933	8463	104.4
4035	YKYC	3564	4872	8436	104.1
4002	Lakeland	3715	4683	8398	103.6
4039	OT 83-1	3677	4443	8120	100.2
4017	Florex (K8-115)	3844	4262	8106	100.0
4003	Ottawa	3413	4117	7529	92.9
LSD 5% (kg/ha)		690	944	1050	
Total Mean		3833	4626	8459	
CV		12.5	14.1	8.6	

Design - Randomized Complete Block

Seeding Method -

Herbicide -

Plot Size -

Soil Type -

Replications - 4

Harvest Dates - Cut 1 - July 02

Cut 2 - Sept.04

Fertilizer - 0-45-0

Exp. 3073

'83 RED CLOVER VARIETY TRIAL

Harvested Kemptville 1984

A-RCKEMP 83-84

Code	Name	Cut 1	Cut 2	kg/ha Total	% of Check
4037	Kuhn	5608	1579	7187	113.5
4034	W115	5635	1280	6915	109.2
4038	BCHGO384	6122	754	6875	108.6
4035	YKYC	5297	1561	6858	108.3
4039	OT 83-1	5280	1545	6825	107.8
4003	Ottawa	4870	1918	6788	107.2
4027	Prosper 1	5191	1423	6615	104.5
4023	Arlington	5050	1537	6588	104.1
4002	Lakeland	4948	1517	6464	102.1
4036	W116	5107	1324	6431	101.6
4017	Florex (K8-115)	5078	1252	6330	100.0
LSD 5% (kg/ha)		480	367	700	
Total Mean		5290	1426	6716	
CV		5.3	15.1	6.1	

Design - Randomized Complete Block

Seeding Method - 8 row plot seeder

Herbicide - Eptam & 2,4-DB

Plot Size - 1.5 x 6 m

Soil Type - North Gower Clay Loam

Replications - 4

Harvest Dates - Cut 1 - June 14

Cut 2 - July 30

Fertilizer - Fall '82 - 0-30-15 @ 300 lbs/acre

Fall '83 - 0-46-0 @ 300 lbs/acre

RED CLOVER DELETIONS DATA - 1984

Name	Elora '82 Seeded '84 Harvested	Kemptville '83 Seeded '84 Harvested	New Liskeard '83 Seeded '84 Harvested	Mean kg/ha	% of Check
Florex	8608.0	6330	8106	7681	100.0
Arlington	7498.4	6588	8537	7541	98.2
Lakeland	7827.3	6464	8398	7563	98.5
Ottawa	7789.1	6788	7529	7369	95.9
Prosper 1	8353.5	6615	8813	7927	103.2

#6566

KAPUSKASING 1984 - SPRING VIGOR NOTES (1-9)

1984 RED CLOVER VARIETY TRIAL

Cultivars	R-1	R-2	R-3	R-4	\bar{x}
BCH60384	3.0	3.0	3.5	4.0	3.4
VIOLETTA	2.5	3.0	2.0	2.0	2.4
MOLLY	3.5	4.0	3.5	3.0	3.5
W113	3.0	3.5	3.0	3.0	3.1
W115	4.0	4.0	2.5	2.5	3.3
OT83-1	4.0	4.5	3.0	2.5	3.5
ARLINGTON	2.5	3.5	2.5	3.0	2.9
W111	2.5	3.0	2.5	3.0	2.8
VIOLA	3.0	3.0	3.0	3.5	3.1
YKYC	2.5	3.0	2.5	3.0	2.8
HAMIDOR14N	3.5	3.5	4.5	3.5	3.8
LAKELAND	3.0	3.5	2.5	3.5	3.1
PROSPER 1	2.5	3.0	3.0	2.5	2.8
OTTAWA	3.5	4.0	2.5	3.5	3.4
W116	2.5	3.0	2.5	3.0	2.8
FLOREX	3.0	3.5	2.5	3.0	3.0
KVHN	3.0	3.5	3.0	3.0	3.1
HAMIDOR1 2N	3.5	4.0	3.0	3.5	3.5
REDDY	3.0	3.0	2.5	2.5	2.8

WHITE CLOVER VARIETIES

CURRENT STATUS OF VARIETIES - Nov. 1, 1984

<u>Code</u>	<u>Variety</u>	<u>Entered by</u>	<u>Official Status</u>	<u>Station Years of Data</u>
	Sacramento	O.F.C.C.	Recommended, Publ. 296	-
3006	Szarvasi	Pickseed	Support for lic., Def. (3)	-
3007	California Ladino	O.F.C.C.	Temporary licence, to July 1, 1985	1 + 4
3009	Crown	Nemec		3
3010	Canopy	Nemec		3

Exp. 2596

1982 WHITE CLOVER VARIETY TRIAL

A- WCELOR82.84

HARVESTED 1984 - Elora

Code	Name	Cut 1	Cut 2	Cut 3	Cut 4	kg/ha Total
8003	Common	4199.2	1651.9	1064.0	548.8	7463.8
8005	Sacramento	3006.1	2057.2	1071.8	791.2	6926.3
8007	Calif. Ladino	2920.2	2216.2	1079.5	704.2	6920.0
8008	Pickseed Ladino	2965.3	1752.6	1112.6	786.5	6617.0
	LSD (0.05)	525.3	425.4	196.5	300.9	653.4
	CV	12.4	17.1	14.0	32.8	7.2

Design - Randomized Complete Block

Seeding Method - 5 row plot seeder

Herbicide -

Plot Size - 1.5 x 6.0 m

Soil Type -

Replications - 1, 2, 3 & 4

Harvest Dates - Cut 1 - June 11

Cut 2 - July 5

Cut 3 - July 26

Cut 4 - Aug. 24

Fertilizer -

Exp. 8202

'83 WHITE CLOVER VARIETY TRIAL

A-WCNL 83.84

1984 Harvest - New Liskeard

Code	Name	Cut 1	Cut 2	Total kg/ha
8008	Ladino (Pickseed)	3425	2447	5872
8007	Calif. Ladino	3444	2384	5828
8005	Sacramento	3254	2072	5326
8010	Canopy	2894	2248	5142
8009	Crown	2665	2476	5141
8099-8003	<u>Common</u>	2983	1996	4980
	LSD 5% (kg/ha)	931	402	1188
	Total Mean	3111	2271	5381
	CV	16.4	9.7	12.1

Design - Randomized Complete Block

Seeding Method -

Herbicide -

Plot Size -

Soil Type -

Replications - Reps 1, 2 & 3

Harvest Dates - Cut 1 - July 02

Cut 2 - Sept. 04

Fertilizer - 0-45-0

Exp. 3074

1983 WHITE CLOVER VARIETY TRIAL

HARVESTED 1984 - Kemptville

WCK Kempt 3-84

Code	Name	Cut 1	Cut 2	Total kg/ha
8010	Canopy	5033	1894	6927
8007	Calif. Ladino	4793	1714	6506
8005	Sacramento	4739	1632	6371
8009	Crown	4494	1796	6290
8008	Ladino (Pickseed)	4646	1620	6266
8003	Common	4136	1162	5298
	LSD 5% (kg/ha)	539	523	848
	Total Mean	9280	3272	12553
	CV	3.9	10.6	4.5

Design - Randomized Complete Block

Seeding Method - 8 row plot seeder

Herbicide - Eptam & 2,4-DB

Plot Size - 1.5 x 6.0 m

Soil Type - North Gower Clay Loam

Replications - 8

Harvest Dates - Cut 1 - June 15

Cut 2 - July 10

Fertilizer - Fall '82 0-30-15 @ 300 lbs/acre

Fall '83 0-46-0 @ 300 lbs/acre

#6604

KAPUSKASING 1984 SPRING VIGOR NOTES (1-9)

1984 WHITE CLOVER TRIAL

Cultivars	R-1	R-2	R-3	R-4	R-5	R-6	R-7	R-8	\bar{X}
LADINO	2.0	3.0	1.5	1.5	2.0	3.5	2.0	2.0	2.2
CANADA #1	2.5	3.5	3.5	1.5	3.5	3.0	2.5	2.0	2.8
CROWN	1.5	4.5	3.5	1.5	4.0	4.0	1.5	2.5	2.9
CALIFORNIA	1.5	3.0	2.0	1.0	4.5	4.0	2.0	2.0	2.5
CANOPY	1.5	3.5	1.0	3.0	1.5	2.5	4.5	1.5	2.4
SACRAMENTO	2.5	3.0	1.5	1.5	2.5	3.0	3.0	3.0	2.5

1 - Poor

9 - Excellent

ELORA

White clover variety trial Seeded 1982, 8 replications

<u>Entry</u>		<u>Rust incidence fall 1983</u>	<u>Virus incidence (% of stand) July 84)</u>
8003	Canada #1	none	48
8005	Sacramento	severe	37
8007	California	severe	38
8008	Pickseed	severe	29

#1087 RIDGETOWN - WHITE CLOVER - 1983 Seeding

Variety	Code	% Flower June 22
---------	------	------------------

Sacramento	8005	20
Canada #1	8003	100
Canopy	8010	32
Crown	8009	27
Ladino (Pickseed)	8008	15
California	8007	10

BROME GRASS VARIETIES

CURRENT STATUS OF VARIETIES - Dec. 1, 1984

<u>Code</u>	<u>Variety</u>	<u>Entered by</u>	<u>Official Status</u>	<u>of Data</u>	<u>Station Years</u>
2001	Baylor	O.F.C.C.	Recommended, Publ. 296	-	
2027	Beacon	O.F.C.C.	Recommended, Publ. 296	-	
2012	Blair	O.F.C.C.	Recommended, Publ. 296	-	
2002	Saratoga	O.F.C.C.	Recommended, Publ. 296	-	
2024	Tempo	O.F.C.C.	Recommended, Publ. 296	-	
2030	Bromex	O.F.C.C.	Recommended, Publ. 296	-	
2039	Bravo	O.F.C.C.	Recommended, Publ. 296	-	
2044	Kesto	Ottawa			

REED CANARY VARIETIES

CURRENT STATUS OF VARIETIES - Dec. 1, 1984

Station Years

<u>Code</u>	<u>Variety</u>	<u>Entered by</u>	<u>Official Station</u>	<u>of Data</u>
	Frontier	O.F.C.C.	Recommended, Publ. 296	-
	Vantage	O.F.C.C.	Recommended, Publ. 296	
5015	Venture	Landis		0
5013	Palaton	Oseco		0
5014	Regale	U. of Manitoba		0

ORCHARD GRASS VARIETIES

CURRENT STATUS OF VARIETIES - Nov. 1, 1984

<u>Code</u>	<u>Variety</u>	<u>Entered by</u>	<u>Official Status</u>	<u>Station Years of Data</u>
	Hallmark	O.F.C.C.	Recommended, Publ. 296	-
	Juno	O.F.C.C.	Recommended, Publ. 296	-
	Ina	O.F.C.C.	Recommended, Publ. 296	-
	Napier	O.F.C.C.	Recommended, Publ. 296	-
	Sumas	O.F.C.C.	Recommended, Publ. 296	-
	Kay	O.F.C.C.	Recommended, Publ. 296	-
3058	Hawk	Oseco	Supported for lic. Def. (3)	-
3064	K8-122	N.K.	Not eligible, examine '85	4 + 4
3066	14011	Pickseed	Not eligible, examine '85	2 + 4
3068	14-78-3	Pickseed		0
3069	Rancho	U.C.O.		0
3065	OAC 84-117	U. of Guelph		3
3067	OAC 84-118	U. of Guelph		3

SUMMARY OF ORCHARDGRASS VARIETIES ELIGIBLE FOR RECOMMENDATION
TOTAL YIELD (KG/HA)

LATE VARIETIES

ENTRY	1981 SEEDING		1982 SEEDING			
	OTTAWA 1982	THUNDERBAY 1982	OTTAWA 1983	THUNDERBAY 1984	GUELPH 1983	1984
KAY	9670	6793	12296	10741	9630	9641
K8-122	8917	6478	12296	11497	10669	10079

	1983 SEEDING			MEAN 9 STATION YEARS
	RIDGETOWN	KAPUSKASING	THUNDERBAY	
KAY	10665	5995	5967	9044
K8-122	12761	6751	5856	9478

EARLY VARIETIES

ENTRY	1982 SEEDING			
	OTTAWA 1983	OTTAWA 1984	GUELPH 1983	1984
HALLMARK	10744	10024	9459	9765
14011	11345	10429	10690	10042

	1983 SEEDING			MEAN 7 STATION YEARS
	RIDGETOWN 1984	KAPUSKASING 1984	THUNDERBAY 1984	
HALLMARK	11467	6812	5995	9181
14011	11265	6650	5335	9394

OFCC ORCHARDGRASS TEST
SUMMARY OF 1982 SEEDING
TOTAL YIELD (KG/HA)

VARIETY	GUELPH			OTTAWA			STATION	
	1983 TOTAL	1984 TOTAL	MEAN	1983 TOTAL	1984 TOTAL	MEAN	MEAN	4
KAY (L)	9630	9641	9636	12296	10741	11519	10577	
K8-122 (L)	10669	10779	10374	12296	11497	11897	11135	
SUMAS (L)	10908	10572	10740	12245	9788	11017	10878	
14011 (E)	10690	10042	10366	11345	10429	10887	10627	
INA (E)	10312	10179	10246	11023	9813	10418	10332	
JUNO (E)	9950	9298	9624	11306	10695	11001	10312	
NAPIER (E)	10051	9172	9612	11867	10416	11142	10377	
HALLMARK (E)	9459	9765	9612	10744	10024	10384	9998	

OFCC ORCHARDGRASS TEST
SUMMARY OF 1983 SEEDING
TOTAL YIELD (KG/HA)

VARIETY	RIDGETOWN TOTAL	KAPUSKASING TOTAL	THUNDERBAY TOTAL	3 STATION MEAN
KAY (L)	10665	5995	5976	7542
HALLMARK (E)	11467	6812	5335	7871
SUMAS (L)	11624	6758	5956	8113
K8-122 (L)	12761	6751	5856	8456
INA (E)	10897	6695	5518	7703
14011 (E)	11265	6650	5995	7970
ORION (L)	12121	6604	5998	8241
NAPIER (E)	10990	6420	5627	7679
JUNO (E)	10634	6222	5338	7398

OFCC ORCHARDGRASS TEST
1984 YIELD FROM 1982 SEEDING

EXPERIMENT 2830 GUELPH, ONTARIO

VARIETY	CUT 1	CUT 2	TOTAL KG/HA	MEAN
SUMAS	7426	3146	10572	5286
INA	7456	2723	10179	5090
K8-122	6714	3366	10079	5040
14011	6781	3261	10042	5021
HALLMARK	6297	3468	9765	4883
KAY	6340	3301	9641	4821
JUNO	6600	2698	9298	4649
NAPIER	6609	2563	9172	4586
LSD 5% (KG/HA)	925	815	1049	
TOTAL MEAN (KG/HA)	6778	3066	9844	
CV=	9.3	18.1	7.2	

OFCC ORCHARDGRASS TEST
1984 YIELD FROM 1982 SEEDING

EXPERIMENT 4821 OTTAWA, ONTARIO

VARIETY	CUT 1	CUT 2	TOTAL KG/HA	MEAN
K8-122	7903	3594	11497	5749
KAY	7725	3016	10741	5371
JUNO	7769	2926	10695	5348
14011	7403	3026	10429	5215
NAPIER	7367	3049	10416	5208
HALLMARK	6885	3139	10024	5012
INA	6798	3015	9813	4907
SUMAS	6884	2904	9788	4894
LSD 5% (KG/HA)	1066	461	1117	
TOTAL MEAN (KG/HA)	7342	3084	10425	
CV=	9.9	10.2	7.3	

OFCC ORCHARDGRASS TEST
1984 YIELD FROM 1982 SEEDING

EXPERIMENT 1088 RIDGETOWN, ONTARIO

VARIETY	CUT 1	CUT 2	CUT 3	TOTAL KG/HA	MEAN
K8-122	6554	3503	2704	12761	6381
ORION	6318	3538	2265	12121	6061
SUMAS	5652	3625	2346	11624	5812
HALLMARK	4973	3885	2609	11467	5734
14011	5630	3232	2403	11265	5633
NAPIER	5258	3358	2375	10990	5495
INA	5092	3442	2362	10897	5449
KAY	5306	3302	2057	10665	5333
JUNO	5524	2968	2143	10634	5317
LSD 5% (KG/HA)	658	410	365	1009	
TOTAL MEAN (KG/HA)	5590	3428	2363	11380	
CV=	8.1	8.2	10.6	6.1	

OFCC ORCHARDGRASS TEST
1984 YIELD FROM 1983 SEEDING

EXPERIMENT 6091 KAPUSKASING, ONTARIO

VARIETY	CUT 1	CUT 2	TOTAL KG/HA	MEAN
HALLMARK	3707	3105	6812	3406
SUMAS	4044	2714	6758	3379
K8-122	4122	2629	6751	3376
INA	3654	3041	6695	3348
14011	3572	3078	6650	3325
ORION	3947	2657	6604	3302
NAPIER	3710	2711	6420	3210
JUNO	3839	2383	6222	3111
KAY	4040	1955	5995	2998
LSD 5% (KG/HA)	665	400	800	
TOTAL MEAN	3848	2697	6545	
CV=	11.8	10.2	8.4	

OFCC ORCHARDGRASS TEST
1984 YIELD FROM 1982 SEEDING

EXPERIMENT 7159 THUNDERBAY, ONTARIO

VARIETY	CUT 1	CUT 2	TOTAL KG/HA	MEAN
ORION	3083	2915	5998	2999
14011	3021	2974	5995	2998
KAY	2869	3098	5967	2984
SUMAS	2948	3009	5956	2978
K8-122	3008	2848	5856	2928
NAPIER	2783	2844	5627	2814
INA	2704	2814	5518	2759
JONO	2602	2736	5338	2669
HALLMARK	2541	2794	5335	2668
LSD 5% (KG/HA)	369	405	622	
TOTAL MEAN	2840	2892	5732	
CV=	8.9	9.6	7.4	

#1088

RIDGETOWN - ORCHARD GRASS - 1983 Seeding

Variety	Code	Date	50% Flower
Hallmark	3027	May	31
Juno	3001		30
Ina	3024	June	2
Napier	3009		2
Sumas	3046		5
Kay	3003		5
K8-122	3064		6
Orion	3053		7
14011	3066		3

TIMOTHY VARIETIES

CURRENT STATUS OF VARIETIES - Dec. 1, 1984

Recommended in Publication 296

Toro	Itasca	Pronto
Basho	Timfor	Richmond
Champ	Climax	Salvo

Unrecommended Varieties

<u>Code</u>	<u>Variety</u>	<u>Entered by</u>	<u>Official Status</u>	<u>Station Years</u>	<u>of Data</u>
6075	Winmor (k216)	N.K.	Licenced, Def. (3)		-
6071	WWT 95	Oseco	Not supported, testing completed	9 + 3	
6079	Bilbo	Oseco	Not supported, testing completed	9 + 3	
6080	Pota	Oseco	Not supported, testing completed	9 + 3	
6061	Hokuo	Landis	Licenced, Not supported '83	9 + 3	
6081	Mariposa(17018)	Pickseed	Licenced, Deferred (2)		-
6074	K215	N.K.	Supported for lic., Deferred (2)		-
6083	Bodin	Oseco	No support, '84, reexamine '85	3 + 6	
6082	Mino	Oseco	No support, '84, reexamine '85	3 + 6	
6084	Bartimi	Oseco	No support, '84, reexamine '85	3 + 6	
6085	Lacombe-1	O.F.C.C.		2 + 3	
6087	81006	Pickseed		0 + 3	
6086	BCSV0907	Bonis		0 + 3	
6091	Tiller	Oseco		0	
6090	Korpa	Oseco		0	
6039	Ott PX2	Ottawa		0	
6092	81005	Pickseed		0	
6093	81009	Pickseed		0	
6088	CHPX5	Ottawa		0	

Timothy Varieties - Status, November 1, 1984

Recommended, Pub. 296:

Basho	Itasca	Salvo
Champ	Pronto	Timfor
Climax	Richmond	Toro

Supported for Licence and Deferred:

Winnmor (K216) - licenced, deferred (2)
Mariposa (17018) - licenced, deferred (1)
K215 - supported, deferred (1)

To be Considered, November 1984:

Strain	Entered by	Station-Years of Data
WWt95	Oseco	12
Bilbo	Oseco	12
Pota	Oseco	12
Hokuo	Landis	12
Bodin	Oseco	9
Mino	Oseco	9
Bartime	Oseco	9

Entries - To be Re-examined, 1984.

Entry	Seeded 1981			Yield (kg/ha)			Mean ¹	
	Cut 1	Total	Seeded 1982	Cut 1	Total			
Hokuo	7280	9300	6350	9050	6820	9180		
Pota	7490	9200	6440	8920	6960	9060		
WT95	7630	9230	6440	8810	7040	9020		
Bilbo	7290	9050	6340	8820	6820	8980		
Checks	7620	9370	6270	9110	6950	9240		

¹ 12 Station-years of data.

Entries - To be Considered, 1984.

Entry	Seeded 1982 ¹			Yield (kg/ha)			Mean	
	Cut 1	Total	Seeded 1983 ²	Cut 1	Total			
Bartimi	6300	8420	8070	10,460	6890	9100		
Bodin	6190	8370	7890	10,270	6760	9000		
Mino	5730	8300	7400	9,830	6290	8810		
Checks	6260	9100	7750	11,070	6780	9760		

¹ 6 station years

² 3 station years

Timothy Licensing Trials - Seeded 1982.¹

Entry	Yield (kg/ha)					
	1983		1984		Mean ¹	
	Cut 1	Total	Cut 1	Total	Cut 1	Total
Mariposa	6140	8870	6280	10010	6210	9440
Timfor	5860	8510	6560	9920	6210	9220
Hokuo	6150	8120	6550	9980	6350	9050
Climax	5940	8320	6800	9660	6320	8990
Pota	5980	8300	6490	9530	6440	8920
Bilbo	6000	8370	6680	9270	6340	8820
WWT95	6350	8450	6540	9160	6440	8810
Bartimi	6200	8070	6410	8770	6300	8420
Bodin	6090	8260	6290	8480	6190	8370
Mino	5210	7460	6250	9140	5730	8300
Checks	5900	8420	6680	9790	6260	9100

¹ 6 Station Years (Kapuskasing, Ottawa, Ridgetown).

Σ8

-74-

Timothy Licensing Trials - Seeded 1983¹

Entry	Yield (kg/ha) - 1984		
	Cut 1	Cut 2	Total
Climax	8040	3250	11,290
BCSV 0907	7800	3450	11,250
Timfor	7460	3370	10,830
Bartimi	8070	2390	10,460
Bodin	7870	2380	10,270
Mino	7400	2430	9,830
Checks	7750	3320	11,070
Mean	7780	2880	10,650
C.V.	10.8%	12.6%	7.7%

1 4 Station Years (Kapuskasing, Kemptville, Guelph, Ottawa).

83

-75-

Experiment 2847. 82 Timothy Licensing Test - Guelph

Entry	Yield (kg/ha) - 1984		
	Cut 1	Cut 2	Total
6002 Climax	11,397	2549	13,945
6084 Bartimi	11,795	2150	13,944
6086 BCSV0907	10,206	3066	13,272
6085 Lacombe-1	10,125	2930	13,055
6083 Bodin	10,765	2259	13,024
6040 Timfor (N7-128)	9,758	2957	12,715
6082 Mino	10,666	1843	12,509
LSD 5% (kg/ha)	N.S.	528	N.S.
Total mean (kg/ha)	10,673	2536	13,209
C.V.	11.9	14.0	8.7

APC

Experiment 6046. 82 Timothy Licensing Test - Kapuskasing

Entry	Yield (kg/ha) - 1984		
	Cut 1	Cut 2	Total
6040 Timfor	5927	2877	8804
6081 Mariposa	5121	3176	8297
6061 Hokuo	5163	2908	8071
6080 Pota	5004	2741	7745
6071 WWT95	5418	2225	7643
6082 Mino	5540	1969	7509
6079 Bilbo	5297	2142	7439
6002 Climax	5343	2021	7364
6083 Bodin	5375	1709	7084
6084 Bartimi	5147	1738	6885
6085 Lacombe-1	4959	1695	6654
LSD 5% (kg/ha)	N.S.	680	884
Total mean (kg/ha)	5299	2291	7591
C.V.	8.2	20.6	8.1

APC

Experiment 1085. 82 Timothy Licensing Test - Ridgetown.

Entry	Yield (kg/ha) - 1984		
	Cut 1	Cut 2	Total
6081 Mariposa	6557	4178	10,735
6002 Climax	7469	2985	10,453
6061 Hokuo	6608	3783	10,391
6040 Timfor	6816	3374	10,190
6080 Pota	7333	2693	10,026
6082 Mino	6747	2938	9,685
6079 Bilbo	7069	2546	9,615
6084 Bartimi	7031	2197	9,229
6083 Bodin	6423	2208	8,631
LSD 5% (kg/ha)	407	443	591
Total mean (kg/ha)	6930	2940	9,870
C.V.	4.0	10.4	4.1

AFC

Experiment 4822. 82 Timothy Licensing Test - Ottawa.

Entry	Yield (kg/ha) - 1984		
	Cut 1	Cut 2	Total
6061 Hokuo	7893	3589	11,482
6002 Climax	7587	3579	11,166
6081 Mariposa	7167	3824	10,991
6080 Pota	7129	3690	10,819
6040 Timfor	6950	3829	10,779
6079 Bilbo	7663	3089	10,752
6085 Lacombe-1	6758	3943	10,701
6082 Mino	6464	3749	10,213
6084 Bartimi	7040	3170	10,210
6071 WWT95	6959	3144	10,103
6083 Bodin	7086	2630	9,716
LSD 5% (kg/ha)	N.S.	N.S.	N.S.
Total mean (kg/ha)	7154	3476	10,630
C.V.	12.9	14.8	9.0

ATC

Experiment 4832. 83 Timothy Licensing Test - Ottawa

Entry	Yield (kg/ha) - 1984		
	Cut 1	Cut 2	Total
6086 BCSV0907	7770	2860	10,629
6087 81006	7656	2737	10,393
6002 Climax	7521	2802	10,323
6040 Timfor	7306	2628	9,934
6084 Bartimi	7361	2212	9,573
6083 Bodin	7568	1823	9,391
6082 Mino	6996	2112	9,108
LSD 5% (kg/ha)	N.S.	452	946
Total mean (kg/ha)	7454	2453	9,907
C.V.	7.5	12.4	6.4

2/1/84

Experiment 6102. 83 Timothy Licensing Test - Kapuskasing

Entry	Yield (kg/ha) - 1984		
	Cut 1	Cut 2	Total
6087 81006	5398	4911	10,309
6086 BCSV0907	5431	4436	9,867
6040 Timfor (N7-128)	5305	4533	9,838
6002 Climax	5195	4410	9,605
6083 Bodin	5335	3056	8,391
6082 Mino	4536	3327	7,863
6084 Bartimi	5040	2817	7,857
LSD 5% (kg/ha)	N.S.	719	933
Total mean (kg/ha)	5177	3927	9,104
C.V.	8.5	12.3	6.9

AFC

Timothy Performance Trials - Yield (kg/ha)

Entry	Seeded 1982 ¹		Seeded 1983 ²		Mean		
	Cut 1	Total	Cut 1	Total	Cut 1	Total	
6020	Itasca	7520	11,310	5370	10,490	6800	11,040
6050	Richmond	7290	11,300	5570	10,410	6720	11,010
6002	Climax	7790	11,250	5700	10,340	7090	10,950
6005	Champ	7120	10,890	6000	11,020	6740	10,930
6009	Basho	7060	10,810	6070	11,140	6730	10,920
6040	Timfor	7740	11,100	5520	10,500	6760	10,900
6030	Toro	6730	10,570	5230	10,010	6230	10,390
6037	Pronto	7480	10,790	5250	9,450	6740	10,340
6062	Salvo	6620	10,640	4590	9,450	5940	10,240
Checks		7760	11,180	5610	10,420	6920	10,920
Mean		7220	10,960	5480	10,310	6640	10,740

1 Ridgetown mean of 1983-84

2 Kapuskasing 1984 yields

Experiment 6103. 83 Timothy Performance Trial - Kapuskasing

Entry	Yield (kg/ha) - 1984		
	Cut 1	Cut 2	Total
6009 Basho	6067	5077	11,144
6005 Champ	6003	5020	11,023
6040 Timfor	5524	4975	10,499
6026 Itasca	5372	5117	10,490
6050 Richmond	5566	4846	10,412
6002 Climax	5703	4642	10,345
6030 Toro	5232	4776	10,008
6062 Salvo	4590	4857	9,448
6037 Pronto	5253	4195	9,448
LSD 5% (kg/ha)	N.S.	N.S.	N.S.
Total mean (kg/ha)	5479	4834	10,313
C.V.	21.7	8.3	11.9

AFC

Experiment 1084. 83 Timothy Performance Trial - Ridgetown

Entry	Yield (kg/ha) - 1984		
	Cut 1	Cut 2	Total
6026 Itasca	7663	4163	11,826
6050 Richmond	7216	4560	11,776
6005 Champ	7136	4433	11,569
6002 Climax	7615	3944	11,559
6040 Timfor	6983	4394	11,377
6037 Pronto	7352	3942	11,294
6009 Basho	6825	4398	11,222
6062 Salvo	6476	4605	11,081
6030 Toro	6334	4285	10,619
LSD 5% (kg/ha)	422	N.S.	N.S.
Total mean (kg/ha)	7067	4303	11,369
C.V.	4.1	8.9	4.4

AFC

#1084

RIDGETOWN - TIMOTHY PERFORMANCE - 1982 Seeding

Variety	Code	Date 50% Flower - 1984	
Salvo	6062	June	9
Toro	6030		11
Basho	6009		11
Richmond	6050		11
Champ	6005		13
ITasco	6026		12
Timfor	6040		12
Pronto	6037		12
Climax	6001		12

#1085

RIDGETOWN - TIMOTHY SCREENING - 1982 Seeding

Variety	Code	Date 50% Flower - 1984
WWT95	6071	June 12
Bilbo	6079	12
Pota	6080	12
Hokuo	6061	12
MLM17018	6081	11
Mino	6082	11
Bodin	6083	13
Bartimi	6084	13
Climax	6001	13
Timfor	6040	12

MEADOW FOXTAIL VARIETIES

CURRENT STATUS OF VARIETIES - Nov. 1, 1984

<u>Code</u>	<u>Variety</u>	<u>Entered by</u>	<u>Official Status</u>	<u>Station Years</u>	<u>of Data</u>
5501	Dan	Oseco			0
5502	82007	Pickseed			0
5503	82008	Pickseed			0
5504	G4549	OFCC			0
5505	Comp 82	OFCC			0
5506	M3-8569	OFCC			0
5507	G4554	OFCC			0
5508	G4550	OFCC			0
5509	G4555	OFCC			0
5510	G4552	OFCC			0
5511	G4553	OFCC			0
5512	G4551	OFCC			0
5513	Comp 81	OFCC			0

ONTARIO FORAGE SEED SURVEY

1984

A co-operative project between Statistics Canada, members of the Canadian Seed Trade Association, and the Ontario Forage Crops Committee

Table 1. Forage seed shipped to dealers and farmers in Ontario
July 1, 1983 to June 30, 1984.
(in thousands of pounds)

	1977	1978	1979	1980	1981	1982	1983	1984	1984 % of 1983
Alfalfa	3099	2961	3521	3571	3362	3396	4523	4441	98
Red Clover	1163	1295	1216	1252	1834	2033	2654	2985	112
Trefoil	388	399	457	306	308	288	314	424	135
White Clover	184	197	210	166	188	155	149	166	111
Alsike Clover	406	433	341	305	303	295	313	503	161
Sweet Clover	253	189	224	176	145	137	213	242	114
Timothy	2312	2150	1910	1780	1754	1953	2067	2229	108
Brome grass	688	722	835	834	535	433	461	625	136
Orchard grass	145	172	132	116	106	110	111	126	114
Red canary grass	13	6	14	19	13	9	30	0	-
Meadow fescue	98	64	37	38	31	33	47	67	143
Tall Fescue	75	94	117	81	76	85	63	83	132
Total all seeds	8823	8681	9015	8645	8645	8928	10945	11891	109

Table 2. Shipments of forage seed to dealers and farmers in Ontario
July 1, 1983 to June 30, 1984.
(in thousands of pounds).

Seed & Variety	1979	1980	1981	1982	1983	1984
<u>Alfalfa</u>	3521	3571	3460	3396	4523	4441
Total Pedigreed	2908	3048	3025	2930	3953	3884
Total Proprietary	1203	1170	1384	1493	1922	1935
Total Public	1705	1878	1641	1437	2031	1949
Iroquois	294	451	437	380	568	596
Saranac	493	436	567	366	573	384
Vernal	793	600	438	397	402	309
Algonquin			-	128	257	290
Angus			-	116	189	132
Total Commercial	613	523	435	468	570	557
<u>Red Clover</u>	1216	1252	1849	2033	2654	2985
Total Pedigreed	68	56	137	166	245	215
Total Proprietary				81	166	142
Total Public				85	79	73
Ottawa	10	7	16	15	16	6
Lakeland	9	8	15	3	8	7
Arlington				43	55	60
Total Commercial	1148	1195	1712	1868	2409	2769
Double Cut	777	728	824	918	1155	1948
Single Cut	370	467	888	950	1254	821

Table 2. (cont'd) Shipments of forage seed to dealers and farmers in Ontario
(in thousands of pounds)

Seed & Variety	1979	1980	1981	1982	1983	1984
<u>Birdsfoot Trefoil</u>	457	306	313	288	314	424
Total Pedigreed	179	145	167	178	159	152
Empire	78	44	37	30	44	45
Leo	95	94	116	134	114	99
Viking				10	-	-
Total Commercial	278	161	145	110	155	273
<u>White Clover</u>	210	166	191	155	149	166
Total Pedigreed	123	99	120	94	69	83
California Cert.				91	69	83
Total Commercial	87	68	71	61	80	84
<u>Alsike</u>	341	305	311	295	313	503
Total Pedigreed				32	33	41
Commercial				263	280	462
<u>Sweet Clover</u>	224	176	146	137	213	242
Total Pedigreed				5	15	-
Commercial				132	197	242
<u>Timothy</u>	1910	1780	1787	1953	2067	2229
Total Pedigreed	1125	1122	1190	1256	1449	1451
Total Proprietary	166	145	179	314	442	377
Total Public	959	976	1011	942	1006	1074
Climax	684	622	497	476	588	543
Champ	220	217	303	297	171	195
Basho	56	135	191	157	199	288
Salvo				2	24	49
Total Commercial	785	658	597	697	618	777

Table 2 (cont'd) Shipments of forage seed to dealers and farmers in Ontario
(in thousands of pounds)

Seed & Variety	1979	1980	1981	1982	1983	1984
<u>Brome Grass</u>	835	590	538	433	461	625
Total Pedigreed	188	204	213	193	174	145
Saratoga	74	63	56	69	29	28
Total Commercial	646	385	326	240	287	479
<u>Orchard Grass</u>	132	116	107	110	111	126
Total Pedigreed	61	60	66	64	70	60
Total Proprietary	51	43	56	46	56	32
Total Public	10	17	10	18	14	28
Total Commercial	71	56	41	45	41	66
<u>Reed Canary Grass</u>	14	19	13	9	30	0
Total Pedigreed	2	0	0	0	0	0
Total Commercial	12	19	13	9	30	0
<u>Meadow Fescue</u>	37	38	32	33	47	67
Total Pedigreed				4	10	20
Total Commercial				29	37	46
<u>Tall Fescue</u>	117	81	77	85	63	83
Total Pedigreed				0	-	5
Total Commercial				85	63	78

Table 3. Market Share Trends in Forage Seed Shipments - Ontario, 1984

Pedigreed

(% of Total)

1978 1979 1980 1981 1982 1983 1984

Alfalfa	77	83	85	88	86	87	87
Red Clover	6	6	4	7	8	9	11
Trefoil	42	39	47	53	62	51	36
White Clover	53	59	60	63	61	46	50
Brome	23	23	35	39	45	38	23
Orchard	46	46	52	62	58	63	48
Timothy	52	59	63	67	64	70	65

Proprietary

(% of Pedigreed)

Alfalfa	36	41	38	46	51	49	50
Red Clover					49	68	66
Timothy	-	15	13	15	25	30	26
Orchard	89	84	72	85	72	80	53

Specific Varieties

(% of Pedigreed)

Iroquois	7	10	15	15	13	14	15
Saranac	19	17	18	19	12	14	10
Vernal	34	27	20	15	14	10	8
Ottawa	15	15	12	12	9	6	3
Arlington					53	22	28
Climax	64	60	55	42	38	41	37
Champ	28	20	19	25	24	12	13
Saratoga	40	41	31	26	36	17	19