

ONTARIO FORAGE CROP INVESTIGATIONS



1985 REPORT ON FIELD TRIALS OF VARIETIES AND MIXTURES

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

1985 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Not for Publication: This is a progress report of co-operative investigations containing data, the interpretation of which may be modified with additional experimentation.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.

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1985 REPORT ON FORAGE CROPS TRIALS**ONTARIO FORAGE CROP COMMITTEE**

compiled by

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INTRODUCTION

This is the 1985 Ontario Forage Crop Investigations Report. The information contained herein was published as submitted by the crop co-ordinators. Names and addresses of each crop co-ordinator are provided to facilitate further inquiries if the need arises.

The O.F.C.C. had a reasonable year with 55 accepted and 23 rejected trials. Severe winters have prevented the accumulation of second year data for red and white clover and trefoil. The committee supported seven alfalfa, one timothy, two orchardgrass and one trefoil cultivars.

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EARLY ALFALFA VARIETIES

CURRENT STATUS OF VARIETIES - Jan. 15, 1986

Recommended in Publication 296

Acclaim	Angus	Answer	Apica	Alouette	Admiral
Anchor	Ceres	Citation	Classic	Hunter	Apollo II
Pacer	Peak	Primal	Regal	Saranac	Armor
Thor	Trident	Trumpetor	Turbo	Vista	88
130	532	Spectrum	Blazer	WL316	
	DK-135	Excalibur	Preserve		

Unrecommended Varieties

<u>Code</u>	<u>Variety</u>	<u>Entered by</u>	<u>Official Status</u>	<u>Station Years of Data</u>
1097	76-105	U. of Guelph	Support for lic., Def (4)	-
1119	77-101	U. of Guelph	Support for lic. Def. (2)	
1144	79005	Pickseed	Support for lic. Def. (1)	-
1140	LSC 215	Landis	Support for lic. Def. (1)	-
1157	WWB 31	Oseco	No support '85 re-examine '86	11
1164	Eagle (Ca760)	King	Licenced, Deferred (1)	
1165	81T21	King	No support '85 re-examine '86	11
1158	02-1981-1	Pickseed	No support, insuff bacterial wilt resistance	11
1161	NAPB 108 (Endure)	PAG Seeds	No support '85 re-examine '86	11
1162	LSC 309	Landis	No support '85 re-examine '86	11
1163	OSX2-9113 (Husky)	Oseco	Licenced, defer (1)	
1167	OAC 81-120R	U. of Guelph	No support '85 re-examine '86	11
1168	OAC 81-119R	U. of Guelph	No support, lack of bacterial wilt resistance	11
1076	CGA 8401	Ciba Geigy		3
1077	CGA 8403	Ciba Geigy		3
1069	NY8302	Cornell		3
1064	LL3018	Dekalb		3
1065	LL3110A	Dekalb		3

Early Alfalfa Varieties (Cont'd)

<u>Code</u>	<u>Variety</u>	<u>Entered by</u>	<u>Official Status</u>	<u>Station Years of Data</u>
1066	Ca 7931-32	King Grain		3
1067	82-5	King Grain		3
1079	KG 841	King Grain		3
1078	N2420	Namec		3
1071	ICB 31	Oseco		3
1072	NAPB 22	Oseco		3
1073	NAPB 23	Oseco		3
1074	NAPB 20	Pickseed		3
1075	WL78W-1	Pickseed		3
1062	XAR21 (5444)	Pioneer		3
1080	Derby	Speare		3
1068	OAC 81-120	U. of Guelph		3
1070	OT83-4	Ottawa		3
1063	LSC305	Landis		3
1081	82003	Pickseed		
1082	NY8413	Pickseed		
1083	83-2	Pickseed		
1084	N3126	Nemec		
1085	N3272	Nemec		
1086	83-3	Oseco		
1087	NK83630	N.K.		
1088	XAR32	Pioneer		
1089	KG 1928	King Grain		
1090	Ott 84-3	Ottawa		

1983 Early Alfalfa Licensing Trials, 1985 Yields (kg/ha)

		Cut 1				Total				
		Ridgetown	Guelph	Kemptville	Ottawa	Ridgetown	Guelph	Kemptville	Ottawa	
Excalibur	Saranac	4985	4451	5382	6298	8053	11760	12781	11316	
	Banner	5079	4124	5572	5682	8263	11271	13365	10610	
	OT81-1	4722	4398	5484	5775	7588	11325	12486	9821	
	SC3704	4479	4399	6534	5722	6729	10154	12315	8308	
	UCO-10	4952	5225	5902	6807	7754	12558	13906	10178	
	DK-135	4822	4890	5445	5708	7831	12131	13681	10182	
	Gemini	4975	5331	5854	6003	8044	12797	13461	9541	
	79005	5058	5315	5751	6445	8161	12849	12769	10535	
	79-9,5	5026	5112	5762	5615	7984	12602	13631	9562	
	Cimarron	4913	5042	5383	5749	8084	12253	12895	10338	
	LSC214	4922	4887	5805	6124	8022	12570	13306	10993	
	LSC215	5299	4837	6168	5668	8325	12407	13994	10637	
WL 316	Apollo II	4981	4716	5771	5561	8090	11602	13146	9230	
	78T4	5014	5129	5752	6110	7970	12040	13275	11271	
Star	OAC 80-105	4046	4244	4680	4904	7306	11054	12014	8996	
	VS-25	5156	4752	5598	5695	8173	12131	13092	9776	
	WWB-31	4694	4949	5578	5494	7812	11916	13093	9870	
	OSX2-9113	5166	5258	5738	5842	8280	12548	13467	10359	
	Ca760	5307	4975	5482	5990	8462	11824	13354	10797	
	81T21	4724	5125	5493	5816	7928	12791	13015	10865	
	02-1981-1	5136	5275	5605	6311	8496	12905	13886	10455	
	CW140	4789	4809	5771	5909	7929	12281	13518	10402	
	NAPB110	4902	4764	5488	6164	7867	11851	12654	11227	
	NAPB108	5144	5058	5758	5146	8091	12383	12821	8654	
	LSC309	4897	4793	5690	5159	7789	12496	13422	8999	
	OAC81-120R	4415	4971	5012	5347	7644	12230	12271	9627	
	OAC81-119R	4860	4945	5355	5816	7884	12025	11854	10416	
	Trumpetor	5010	5011	5786	5708	7890	12116	13420	10743	
	Hunter	4766	4646	5380	5842	7665	11847	13036	10744	
		CV (%)	6.8	10.1	6.7	8.5	5.1	5.3	4.0	9.8
		LSD (5%)	470	581	526	810	566	753	742	1629

1984 Early Alfalfa Trial (A), 1985 Yields (kg/ha)

	Cut 1			Total		
	Guelph	Kemptville	Ottawa	Guelph	Kemptville	Ottawa
Saranac	4801	6146	5096	10405	12856	11239
Citation	4637	6356	5549	10273	13398	11962
XAR21	5208	6135	5048	10899	13247	11374
LSC305	4110	5917	5215	9876	12684	11744
LL3018	4516	5842	5406	9890	12690	11833
LL3110A	5045	5977	5406	10175	12494	11635
Ca7931-32	3802	5861	5454	8927	12175	12054
82-5	4349	5662	5131	9793	12303	11112
OAC 81-120	4368	5999	5179	9993	12542	11069
NY8302	4285	6450	5048	9762	13166	11079
OT83-4	4365	6495	5203	9720	13286	11585
ICB-31	4636	6409	5310	10310	13408	11780
NAPB22	3992	6351	5012	9109	12941	11291
NAPB23	4745	6446	5394	10571	13092	11906
NAPB20	4995	7196	5215	10833	13923	11564
WL78W-1	4706	5619	4976	10338	12278	11168
CGA8401	4835	6156	5024	10572	13455	11739
CGA8403	4365	5846	4940	9415	12440	11587
N242-0	4547	6250	4845	9795	13400	11359
KG841	4324	5989	5298	9489	13236	11834
Derby	4647	5967	5012	9711	12997	11695
CV(%)	14	9.0	7.1	10.7	4.9	4.7
LSD(5%)	772	786	60.5	1268	905	899

1984 Early Alfalfa Trial (B), 1985 Yields (kg/ha)

	Cut 1			Total		
	Guelph	Kemptville	Ottawa	Guelph	Kemptville	Ottawa
Saranac	5298	5934	6134	10255	12220	12151
Banner	4766	6073	5768	9188	12856	11698
Citation	5364	5699	6448	10029	12119	12464
WWB-31	4766	5646	6082	8723	11829	12178
02-1981-1	6130	5781	6385	11231	12461	12949
CW140	5406	5799	6416	9674	12181	12688
NAPB110	5124	5940	5998	9362	11916	11717
NAPB108	5177	5868	5998	9497	11877	11746
LSC309	4758	5819	6030	8840	11925	11933
OSX2-9113	5814	5874	6521	11204	11837	12708
Ca760	5258	5395	5758	9789	11606	11865
81T21	4729	5530	6061	9227	11458	12151
OAC81-120R	4751	5254	5716	10139	11116	11481
OAC81-119R	4881	5224	5915	8575	10543	11154
OT81-1	5217	5956	5967	9468	11747	11572
Hardy	4170	5582	5476	7099	10752	10368
77-8CaB	4910	5256	6280	9437	10990	12389
Acclaim	5094	5646	5946	9036	11445	12007
Preserve	5974	6023	6134	10703	12195	12305
Armor	5318	6142	6270	10325	12050	12237
Spectrum	5061	6655	6573	9690	12765	12694
75T12	5077	5799	6427	9944	12219	12416
Apica	5112	5923	6218	9631	12056	12076
Peak	5597	5894	6166	10476	11958	11942
Turbo	4992	5906	5800	9555	11735	11713
Regal	5252	5285	6030	10220	11635	11998
532						
CV(%)	8.6	7.6	6.7	10.3	4.8	4.6
LSD (5%)	525	617	575	1181	800	784

Table 1 Alfalfa yield trial (Early) Experiment 2850
Elora, 1985 yield data, Seeded 1983

Code	Entry	Cut 1	Cut 2	Cut 3	Total Kg/Ha
1001	SARANAC	4451	4118	3191	11760
1022	BANNER	4124	3954	3193	11271
1067	HUNTER	4646	4111	3090	11847
1094	TRUMPETOR	5011	3957	3148	12116
1135	OAC 80-105	4244	3851	2960	11054
1136	78T4	5129	3937	2974	12040
1138	APOLLO II	4716	3913	2973	11602
1139	LSC 214	4887	4322	3362	12570
1140	LSC 215	4837	4317	3253	12407
1141	CIMARRON	5042	3984	3227	12253
1142	79-9,5	5112	4160	3330	12602
1143	GEMINI	5331	4304	3162	12797
1144	79005	5315	4294	3240	12849
1145	DK 135	4890	4036	3205	12131
1146	UCO 10	5225	4150	3183	12558
1147	STAR	4752	4110	3269	12131
1152	OT81-1	4398	3849	3078	11325
1154	SC 3704	4399	3333	2423	10154
1157	WWB 31	4949	3882	3086	11916
1158	02-1981-1	5275	4267	3364	12905
1159	CW 140	4809	4090	3382	12281
1160	NAPB 110	4764	4019	3068	11851
1161	NAPB 108	5058	4084	3241	12383
1162	LSC 309	4793	4319	3383	12496
1163	9113	5258	4088	3203	12548
1164	Ca 760	4975	3864	2985	11824
1165	81T21	5125	4228	3438	12791
1167	OAC 81-120R	4971	4109	3151	12230
1168	OAC 81-119R	4945	3900	3180	12025
	MEAN (KG/HA):	4877	4053	3163	12094
	LSD 5% (KG/HA):	581	220	214	758
	C.V. %:	10.1	4.6	5.7	5.3

Table 2 Alfalfa yield trial (Early). Experiment 3071
Kemptville 1985 yield data. Seeded 1983

Code	Entry	Cut 1	Cut 2	Cut 3	Total Kg/Ha
1140	LSD 215	6168	4511	3315	13994
1146	UCO 10	5902	4775	3229	13906
1158	02-1981-1	5605	5046	3234	13886
1145	8015 (DK-135)	5445	4609	3627	13681
1142	OSECO 79-9,5	5762	4689	3180	13631
1159	CW 140	5771	4671	3075	13518
1163	OSX2-9113	5738	4646	3083	13467
1143	GEMINI	5854	4785	2822	13461
1162	LSC 309	5690	4428	3304	13422
1094	TRUMPETOR	5786	4496	3138	13420
1022	BANNER	5572	4729	3064	13365
1164	CA 760	5482	4692	3180	13354
1139	LSC 214	5805	4515	2985	13306
1136	78T4	5752	4533	2990	13275
1138	APOLLO II	5771	4378	2997	13146
1157	WWB 31	5578	4502	3013	13093
1147	VS 25	5598	4569	2925	13092
1067	HUNTER (PS 10)	5380	4463	3193	13036
1165	81T21	5493	4197	3325	13015
1141	CIMARRON	5383	4414	3098	12895
1161	NAPB 108	5758	4249	2814	12821
1001	SARANAC	5382	4441	2957	12781
1144	79005	5751	4277	2741	12769
1160	NAPB 110	5488	4376	2791	12654
1152	OT 81-1	5484	4121	2881	12486
1154	SC 3704	6534	3847	1934	12315
1167	OAC 81-120 R	5012	3974	3285	12271
1135	OAC 80-105	4680	4198	3136	12014
1168	OAC 81-119R	5355	4053	2446	11854
	MEAN (KG/HA):	5620	4455	3026	13101
	LSD 5% (KG/HA):	526	304	353	742
	C.V. %:	6.7	4.9	8.3	4.0

Table 3 Alfalfa yield trial (Early). Experiment 4017
Ottawa 1985 yield data. Seeded 1983.

Code	Entry	Cut 1	Cut 2	Cut 3	Total Kg/Ha
1001	SARANAC	6298	3458	1561	11316
1048	WL 316 (78T4)	6110	3581	1580	11271
1057	NAPB 110	6164	3348	1715	11227
1045	LSC 214	6124	3116	1753	10993
1054	81T21	5816	3335	1715	10865
1053	CA 760	5990	3266	1541	10797
1014	HUNTER	5842	3225	1676	10744
1023	TRUMPETOR	5708	3089	1946	10743
1046	LSC 215	5668	3485	1484	10637
1008	BANNER	5682	3253	1676	10610
1042	79005	6445	2856	1233	10535
1055	02-1981-1	6311	2911	1233	10455
1061	OAC 81-119R	5816	2925	1676	10416
1056	CW 140	5909	3048	1445	10402
1052	OSX2-9113	5842	3130	1387	10359
1044	CIMARRON	5749	3048	1541	10338
1040	DK-135	5708	3048	1426	10182
1039	EXCALIBUR	6807	2542	828	10178
1051	WWB31	5494	3143	1233	9870
1036	OT 81-1	5775	2870	1175	9821
1050	STAR (VS25)	5695	2925	1156	9776
1060	OAC 81-120R	5347	3048	1233	9627
1043	OSECO 79-9,5	5615	2733	1214	9562
1041	GEMINI	6003	2556	983	9541
1047	APOLLO II	5561	2706	963	9230
1059	LSC 309	5159	2761	1079	8999
1049	OAC 80-105	4904	2569	1522	8996
1058	NAPB 108	5146	2487	1021	8654
1038	SC 3704	5722	2150	482	8308
	MEAN (KG/HA):	5807	2985	1361	10154
	LSD (KG/HA):	810	706	1030	1629
	C.V. %:	8.5	14.5	46.4	9.8

Table 4 Alfalfa yield trial (Early) Experiment 1089
Ridgetown 1985 yield data. Seeded 1983

Code	Entry	Cut 1	Cut 2	Cut 3	Total Kg/Ha
1055	02-1981-1	5136	2279	1082	8496
1053	CA 760	5307	2198	957	8462
1046	LSC 215	5299	2202	824	8325
1052	OSX2-9113	5166	2239	875	8280
1008	BANNER	5079	2240	943	8263
1050	STAR (VS25)	5156	2193	824	8173
1042	79005	5058	2172	931	8161
1058	NAPB 108	5144	2093	854	8091
1047	APOLLO II	4981	2200	910	8090
1044	CIMARRON	4913	2184	986	8084
1001	SARANAC	4985	2118	950	8053
1041	GEMINI	4975	2260	809	8044
1045	LSC 214	4922	2185	914	8022
1043	OSECO 79-9,5	5026	2239	719	7984
1048	WL 316 (78T4)	5014	2164	792	7970
1056	CW 140	4789	2236	903	7929
1054	81T21	4724	2201	1004	7928
1023	TRUMPETOR	5010	2086	793	7890
1061	OAC 81-119R	4860	2144	880	7884
1057	NAPB 110	4902	2167	798	7867
1040	DK-135	4822	2182	828	7831
1051	WWB 31	4694	2181	937	7812
1059	LSC 309	4897	2037	855	7789
1039	EXCALIBUR	4952	2175	628	7754
1014	HUNTER	4766	2059	841	7665
1060	OAC 81-120R	4415	2275	954	7644
1036	OT 81-1	4722	2097	769	7588
1049	OAC 80-105	4046	2201	1058	7306
1038	SC 3704	4479	1747	503	6729
	MEAN (KG/HA):	4905	2164	866	7935
	LSD 5% (KG/HA):	470	163	177	566
	C.V. %:	6.8	5.3	14.5	5.1

EARLY ALFALFA '83 #3071 - 1985

Table 5

Soil Type: Clay LoamLocation: Range W3, WinchesterTest Size: 150' x 80'Seeding Rate: 13 kg/haHerbicide: EPTAM @ 4.25 L/ha on May 18/83

EMBUTOX E(2,4-D,B) @ 2.5 L on June 15/83

Fertilizer: Fall '83 0-46-0 @ 300 lbs/ac

Fall '84 0-32-17 @ 300 lbs/ac

Planting Date: May 19/83Harvest Date: Cut 1 - June 7/85

Cut 2 - July 15/85

Cut 3 - Aug. 20/85

CODE	NAME	CUT 1	CUT 2	CUT 3	TOTAL kg/ha
1140	LSC 215	6168	4511	3315	13994
1146	UCO 10	5902	4775	3229	13906
1158	02-1981-1	5605	5046	3234	13886
1145	8015 (DK-135)	5445	4609	3627	13681
1142	Oseco 79-9,5	5762	4689	3180	13631
1159	CW 140	5771	4671	3075	13518
1163	OSX2-9113	5738	4646	3083	13467
1143	Gemini	5854	4785	2822	13461
1162	LSC 309	5690	4428	3304	13422
1094	Trumpetor (7801)	5786	4496	3138	13420
1022	Banner (Pioneer)	5572	4729	3064	13365
1164	CA 760	5482	4692	3180	13354
1139	LSC 214	5805	4515	2985	13306
1136	78T4	5752	4533	2990	13275
1138	Apollo II	5771	4378	2997	13146
1157	WVB 31	5578	4502	3013	13093
1147	VS 25	5598	4569	2925	13092
1067	Hunter (PS 10)	5380	4463	3193	13036
1165	81T21	5493	4197	3325	13015
1141	Cimarron	5383	4414	3098	12895
1161	NAPB108	5758	4249	2814	12821
1001	Saranac	5382	4441	2957	12781
1144	79005	5751	4277	2741	12769
1160	NAPB110	5488	4376	2791	12654
1152	OT 81-1	5484	4121	2881	12486
1154	SC 3704	6534	3847	1934	12315
1167		5012	3974	3285	12271
1135	OAC 80-105	4680	4198	3136	12014
1168	OAC81-119R	5355	4053	2446	11854
LSD 5% (kg/ha)		526	304	353	742
TOTAL MEAN (kg/ha)		5620	4455	3026	13101
C.V. =		6.7	4.9	8.3	4.0

Table 6 Alfalfa yield trial (Early A). Experiment 2854
Elora, 1985 yield data. Seeded 1984.

Code	Entry	Cut 1	Cut 2	Cut 3	Total Kg/Ha
1001	SARANAC	4801	3401	2203	10405
1011	CITATION	4637	3387	2249	10273
1062	5444	5208	3388	2303	10899
1063	LSC 305	4110	3415	2351	9876
1064	LL3018	4516	3236	2138	9890
1065	LL3110A	5045	3141	1989	10175
1066	Ca7931-32	3802	2994	2131	8927
1067	82-5	4349	3185	2259	9793
1068	OAC 81-120	4368	3246	2379	9993
1069	NY 8302	4285	3305	2172	9762
1070	OT 83-4	4365	3120	2235	9720
1071	ICB-31	4636	3422	2252	10310
1072	NAPB 22	3992	3096	2021	9109
1073	NAPB 23	4745	3469	2357	10571
1074	NAPB 20	4995	3474	2364	10833
1075	WL78-W1	4706	3618	2014	10338
1076	CGA 8401	4835	3424	2313	10572
1077	CGA 8403	4365	2953	2098	9415
1078	N242-0	4547	3102	2146	9795
1079	KG 841	4324	3065	2100	9489
1080	DERBY	4647	3048	2016	9711
	MEAN (KG/HA):	4537	3261	2195	9993
	LSD 5% (KG/HA):	772	385	261	1268
	C.V. %:	14.4	10.0	10.1	10.7

Table 7 Alfalfa yield trial (Early B). Experiment 2855
Elora 1985 yield data. Seeded 1984.

Code	Entry	Cut 1	Cut 2	Cut 3	Total Kg/Ha
1001	SARANAC	5298	3007	1949	10255
1006	APICA	5077	2924	1943	9944
1008	BANNER	4766	2651	1770	9188
1011	CITATION	5364	2858	1807	10029
1016	PEAK	5112	2738	1781	9631
1017	PIONEER 532	5252	2844	2124	10220
1019	REGAL	4992	2771	1792	9555
1020	SPECTRUM	5061	2825	1804	9690
1024	TURBO	5597	3002	1877	10476
1029	77-8 CaB	4910	2696	1831	9437
1030	ARMOR	5318	3065	1942	10325
1032	ACCLAIM	5094	2422	1520	9036
1033	PRESERVE	5974	2961	1768	10703
1036	OT 81-1	5217	2584	1667	9468
1037	HARDY	4170	2127	803	7099
1051	WWB 31	4766	2500	1457	8723
1052	OSX2-9113	5814	3175	2215	11204
1053	Ca 760	5258	2768	1763	9789
1054	81T21	4729	2730	1768	9227
1055	02-1981-1	6130	3066	2035	11231
1056	CW 140	5406	2663	1605	9674
1057	NAPB 110	5124	2665	1573	9362
1058	NAPB 108	5177	2639	1681	9497
1059	LSC 309	4758	2529	1554	8840
1060	OAC 81-120R	4751	3082	2306	10139
1061	OAC 81-119R	4881	2303	1392	8575
	MEAN (KG/HA):	5154	2754	1759	9666
	LSD 5% (KG/HA):	525	387	453	1181
	C.V. %:	8.6	11.9	21.8	10.3

Table 8 Alfalfa yield trial (Early A). Experiment 3081
Kemptville 1985 yeild data. Seeded 1984.

Code	Entry	Cut 1	Cut 2	Cut 3	Total Kg/Ha
1190	NAPB 20	7196	4240	2488	13923
1192	CGA 8401	6156	4515	2784	13455
1187	ICB 31	6409	4435	2564	13408
1194	N 242-0	6250	4484	2666	13400
1034	CITATION	6356	4400	2642	13398
1185	OTT 83-4	6495	4232	2559	13286
1178	XAR 21	6135	4582	2530	13247
1195	KG 841	5989	4478	2769	13236
1184	NY8302	6450	4228	2488	13166
1189	NAPB 23	6446	4143	2503	13092
1205	DERBY	5967	4495	2535	12997
1188	NAPB 22	6351	4114	2476	12941
1001	SARANAC	6146	4161	2548	12856
1180	LL 3018	5842	4088	2760	12690
1179	LSC 305	5917	4010	2757	12684
1166	OAC 81-120	5999	3927	2616	12542
1181	LL 3110-A	5877	4002	2515	12494
1193	CGA 8403	5846	4126	2468	12440
1183	82-5	5662	4107	2534	12303
1191	WL 78W-1	5619	4327	2333	12278
1182	CA 7931-32	5861	3774	2540	12175
	MEAN (KG/HA):	6146	4232	2575	12953
	LSD 5% (KG/HA):	786	246	307	905
	C.V. %:	9.0	4.1	8.4	4.9

Table 9 Alfalfa yield trial (Early B). Experiment 3086
Kemptville 1985 yield data. Seeded 1984

Code	Entry	Cut 1	Cut 2	Cut 3	Total Kg/Ha
1022	BANNER	6073	3969	2814	12856
1119	OSECO 75T12	6655	3229	2881	12765
1158	02-1981-1	5781	3941	2739	12461
1001	SARANAC	5934	3692	2594	12220
1077	APICA	5799	3721	2699	12219
1124	80334	6023	3702	2470	12195
1159	CW 140	5799	3771	2611	12181
1034	CITATION	5699	3708	2712	12119
1105	PEAK	5923	3401	2732	12056
1120	ARMOR	6142	3354	2555	12050
1100	CW 940	5894	3425	2639	11958
1162	LSC 309	5819	3332	2774	11925
1160	NAPB 110	5940	3407	2569	11916
1161	NAPB 108	5868	3461	2548	11877
1163	OSX2-9113	5874	3440	2523	11837
1157	WWB 31	5646	3661	2521	11829
1152	OT 81-1	5956	3261	2530	11747
1082	REGAL	5906	3274	2556	11735
1093	PIONEER 532	5285	3617	2732	11635
1164	CA 760	5395	3656	2555	11606
1165	81T21	5530	3263	2666	11458
1123	CA 670-71	5646	3097	2703	11445
1167	OAC 81-120R	5254	3229	2633	11116
1122	77-8 CAB	5256	3223	2512	10990
1153	HARDY	5582	3205	1965	10752
1168	OAC 81-119R	5224	3155	2164	10543
	MEAN (KG/HA):	5765	3469	2592	11826
	LSD 5% (KG/HA):	617	323	251	800
	C.V. %:	7.6	6.6	6.9	4.8

Table 10 Alfalfa yield trial (Early A). Experiment 4041
Ottawa, 1985 yield data. Seeded 1984

Code	Entry	Cut 1	Cut 2	Cut 3	Total Kg/Ha
1066	CA 7931-32	5454	4071	2529	12054
1011	CITATION	5549	4058	2354	11962
1073	NAPB 23	5394	4216	2296	11906
1079	KG 841	5298	4268	2267	11834
1064	LL3018	5406	4058	2369	11833
1071	ICB-31	5310	4203	2267	11780
1063	LSC 305	5215	4190	2340	11744
1076	CGA 8401	5024	4360	2354	11739
1080	DERBY	5012	4518	2165	11695
1065	LL3110A	5406	4006	2224	11635
1077	CGA 8403	4940	4321	2325	11587
1070	OT 83-4	5203	4071	2311	11585
1074	NAPB 20	5215	4111	2238	11564
1062	5444 (XAR 21)	5048	4321	2006	11374
1078	N242-0	4845	4334	2180	11359
1072	NAPB 22	5012	4084	2195	11291
1001	SARANAC	5096	3993	2151	11239
1075	WL78-W1	4976	4084	2107	11168
1067	82-5	5131	3887	2093	11112
1069	NY 8302	5048	3953	2078	11079
1068	OAC 81-120	5179	3914	1977	11069
	MEAN (KG/HA):	5179	4144	2230	11553
	LSD 5% (KG/HA):	605	336	347	899
	C.V. %:	7.1	4.9	9.4	4.7

Table 11 Alfalfa yield trial (Early B). Experiment 4042
Ottawa, 1985 yield data. Seeded 1984

Code	Entry	Cut 1	Cut 2	Cut 3	Total Kg/Ha
1055	02-1981-1	6385	4200	2364	12949
1052	OSX2-9113	6521	4045	2142	12708
1020	SPECTRUM	6573	3812	2309	12694
1056	CW 140	6416	4074	2198	12688
1011	CITATION	6448	3841	2176	12464
1006	APICA	6427	3880	2109	12416
1029	77-8 CAB	6280	3744	2364	12389
1033	PRESERVE	6134	4006	2164	12305
1030	ARMOR	6270	3725	2242	12237
1051	WWB 31	6082	3987	2109	12178
1054	81T21	6061	3870	2220	12151
1001	SARANAC	6134	3841	2176	12151
1016	PEAK	6218	3783	2076	12076
1032	ACCLAIM	5946	3764	2298	12007
1017	PIONEER 532	6030	3793	2176	11998
1024	TURBO	6166	3657	2120	11942
1059	LSC 309	6030	3705	2198	11933
1053	CA 760	5758	3831	2275	11865
1058	NAPB 108	5998	3705	2042	11746
1057	NAPB 110	5998	3754	1965	11717
1019	REGAL	5800	3715	2198	11713
1008	BANNER	5768	3909	2020	11698
1036	OT 81-1	5967	3618	1987	11572
1060	OAC 81-120R	5716	3589	2176	11481
1061	OAC 81-119R	5915	3463	1776	11154
1037	HARDY	5476	3560	1332	10368
	MEAN (KG/HA):	6097	3803	2123	12023
	LSD 5% (KG/HA):	575	281	309	784
	C.V. %:	6.7	5.2	10.3	4.6

EARLY ALFALFA A '84 #3081 - 1985

Table 12

Soil Type: Clay LoamPrevious Crop: SoybeansLocation: W11, WinchesterTest Size: 110' x 80'Seeding Rate: 13 kg/haHerbicide: EPTAM @ 4.25 L/ha at planting

EMBUTOX E (2,4-D,B) @ 3.0L at 3 leaf stage

Fertilizer: Fall '83 0-46-0 300 lbs/ac

Fall '84 0-32-17 350 lbs/ac

Fall '85 0-32-17 300 lbs/ac

Planting Date: May 16/84Harvest Date: Cut 1 - June 10/85

Cut 2 - July 18/85

Cut 3 - Aug. 20/85

CODE	NAME	CUT 1	CUT 2	CUT 3	TOTAL kg/ha
1190		7196	4240	2488	13923
1192		6156	4515	2784	13455
1187		6409	4435	2564	13408
1194		6250	4484	2666	13400
1034	Citation (RP 10)	6356	4400	2642	13398
1185		6495	4232	2559	13286
1178		6135	4582	2530	13247
1195		5989	4478	2769	13236
1184		6450	4228	2488	13166
1189		6446	4143	2503	13092
1205		5967	4495	2535	12997
1188		6351	4114	2476	12941
1001	Saranac	6146	4161	2548	12856
1180		5842	4088	2760	12690
1179		5917	4010	2757	12684
1166	OAC81-120	5999	3927	2616	12542
1181		5977	4002	2515	12494
1193		5846	4126	2468	12440
1183		5662	4107	2534	12303
1191		5619	4327	2333	12278
1182		5861	3774	2540	12175
LSD 5% (kg/ha)		786	246	307	905
TOTAL MEAN (kg/ha)		6146	4232	2575	12953
C.V.		9.0	4.1	8.4	4.9

EARLY ALFALFA B '84 #3086 - 1985

Table 13

Soil Type: Clay Loam
Previous Crop: Soybeans
Location: W11, Winchester
Test Size: 140' x 80'
Seeding Rate: 13 kg/ha
Herbicide: EPTAM @ 4.25 L/ha at planting
 EMBUTOX E (2,4-D,B) @ 3 leaf stage
Fertilizer: Fall '83 0-46-0 300 lbs/ac
 Fall '84 0-32-17 350 lbs/ac
 Fall '85 0-32-17 300 lbs/ac
Planting Date: May 16/84
Harvest Date: Cut 1 - June 10/85
 Cut 2 - July 18/85
 Cut 3 - Aug. 20/85

CODE	NAME	CUT 1	CUT 2	CUT 3	TOTAL kg/ha
1022	Banner (Pioneer)	6073	3969	2814	12856
1119	Oseco 75T12	6655	3229	2881	12765
1158	02-1981-1	5781	3941	2739	12461
1001	Saranac	5934	3692	2594	12220
1077	Apica (S.Q.Syn)	5799	3721	2699	12219
1124	80334	6023	3702	2470	12195
1159	CW 140	5799	3771	2611	12181
1034	Citation (RP 10)	5699	3708	2712	12119
1105	Peak	5923	3491	2732	12056
1120	Armor	6142	3354	2555	12050
1100	CW 940	5894	3425	2639	11958
1162	OSC 309	5819	3332	2774	11925
1160	NAPB110	5940	3407	2569	11916
1161	NAPB108	5868	3461	2548	11877
1163	OSX2-9113	5874	3440	2523	11837
1157	WWB 31	5646	3661	2521	11829
1152	OT 81-1	5946	3261	2530	11747
1082	Regal (HI-PHY)	5906	3274	2556	11735
1093	Pioneer 532	5285	3617	2732	11635
1164	CA 760	5395	3656	2555	11606
1165	81T21	5530	3263	2666	11458
1123	CA 670-71	5646	3097	2703	11445
1167		5254	3229	2633	11116
1122	77-8 CAB	5256	3223	2512	10990
1153	Hardy	5582	3205	1965	10752
1168	OAC81-119R	5224	3155	2164	10543
LSD 5% (kg/ha)		617	323	251	800
TOTAL MEAN (kg/ha)		5765	3469	2592	11826
C.V. =		7.6	6.6	6.9	4.8

MEDIUM ALFALFA VARIETIES

CURRENT STATUS OF VARIETIES - Jan. 15, 1986

Recommended in Publication 296

Algonquin	Glory	Iroquois	Magnum	Weevilcheck
Titan	Valor	Vernal		Thunder
120	524	526	OAC Minto	WL 222

Unrecommended Varieties

<u>Code</u>	<u>Variety</u>	<u>Entered by</u>	<u>Official Status</u>	<u>Station Years</u> <u>of Data</u>
9016	MLM 02042	Pickseed	Sup. for lic., Defer (2)	
9020	80335 (Drummor)	N.K.	Sup. for lic., Defer (2)	
9022	Far-14 (Olinda)	Ottawa	Sup. for lic., Defer (2)	
9023	Comsel	Ottawa	Sup. for lic., Defer (2)	
9024	SC Poly 2	Ottawa	Sup. for lic., Defer (2)	
9025	79003	Pickseed	Sup. for lic., Defer (2)	
9027	LSC 216	Landis	Sup. for lic., Defer (2)	
9030	79001	Pickseed	No sup. '85 re-examine '86	11
9031	80012	Pickseed	No sup. '85 re-examine '86	11
9032	CW241	Pickseed	Sup. for lic., Defer (1)	
9033	LSC 110	Landis	No sup. '85 re-examine '86	11
9034	LSC 308	Landis	No sup. '85 re-examine '86	11
9035	OSX2-9114	Oseco	No sup. '85 re-examine '86	12
9036	VW 33-2 (Barrier)	Ottawa Res. Stn.	No sup. '85 re-examine '86	11
9037	OT83-3	Ottawa Res. Stn.	No sup., lack of bacterial	11
9046	CGA 8402	Ciba Geigy		3
9040	Mohawk	Cornell		3
9041	NY8301 Oneida VR	Cornell		3
9039	NAPB21	King Grain		3
9047	N3150	Nemec		3
9038	NK82503	N.K.		3
9045	82001	Pickseed		3
9042	OT 84-4	Ottawa		3
9043	OT 83-2	Ottawa		3
9044	OT 83-1	Ottawa		3
9048	NY8412	Pickseed		0

Medium Alfalfa Varieties (cont'd)

<u>Code</u>	<u>Variety</u>	<u>Entered by</u>	<u>Official</u> <u>Status</u>	<u>Station Years</u> <u>of Data</u>
9049	Big Ten	W. Glassford		0
9050	N3418	Nemec		0
9051	N3340	Nemec		0
9052	C-339	Cargill		0
9053	Exp 12	Bison Seed		0
9054	LSC 537	Landis		0
9055	XAF31	Pioneer		0
9056	OT84-2	Ottawa		0
9057	SF8001	OFCC (Quebec)		0

1983 Medium Alfalfa Variety Trials, 1985 Yields (kg/ha)

	Cut 1			Total		
	Ridgetown	Guelph	Kemptville	Ridgetown	Guelph	Kemptville
Iroquois	4822	5259	6085	11709	15090	13534
520	5018	5544	6101	12248	16028	13757
Comsel	4763	5410	5582	11831	15699	13338
SCPoly2	4761	5172	5967	11519	15096	13934
79003	4833	5339	5695	11864	14898	13400
79-12,5	5009	5367	5891	12400	15003	13435
LSC216	5091	5523	5784	12143	15866	14038
Ca744	5075	5339	5749	12040	15651	13915
XAF12	4825	5790	6298	12130	16419	14710
79001	4618	5106	5669	11300	15315	13093
80012	4785	5412	5753	11694	15650	13388
CW241	4907	5411	6166	11800	16092	14425
LSC110	4725	5592	5587	11140	15559	13114
LSC308	4861	5117	5802	11862	15085	13697
OSX2-9114	4764	5136	5686	11650	15330	13530
VW33-2	4785	5432	5976	11146	15151	13535
OT83-3	4439	5609	5524	10708	15575	12835
Glory	5216	5943	5773	12314	16141	13482
CV (%)	6.3	9.0	6.0	4.7	7.8	3.4
LSD (5%)	510	679	500	911	324	661

972

1984 Medium Alfalfa Variety Trials, 1985 Yields (kg/ha)

	Cut 1			Total		
	Guelph	Kemptville	Ottawa	Guelph	Guelph	Kemptville
520	6435	5219	5947	11845	12758	12638
Iroquois	6168	5175	6053	12310	12281	12783
120	6259	5563	6053	11828	12896	12488
NK82503	6694	5410	5584	11642	12741	12376
NAPB21	6730	5118	5522	12299	12132	12115
Mohawk	6812	4975	6027	12273	12052	12601
NY8301	6505	5422	5708	12392	12881	12404
OT84-4	6788	5055	5540	13092	13104	12134
OT83-2	6478	5188	5823	12291	12588	12279
OT83-1	6173	5444	5629	11482	12980	12004
82001	5760	5121	5620	10662	12709	12037
CGA8402	6200	5352	5823	11725	12669	12387
N3150	6453	5226	6018	11636	12452	12661
79001	6078	5094	5514	11395	12065	11662
80012	6226	5145	5505	11343	12599	12011
CW241	7618	5279	5558	14288	13303	12094
LSC110	6974	5226	5885	13187	12154	12460
LSC308	6548	5302	5567	12647	13025	12310
OSX2-9114	6098	5298	5761	11881	12598	12483
VW33-2	5365	5267	5726	10059	12051	12104
OT83-3	7443	5015	5956	13002	12056	11809
Ca838	6692	5462	5868	12403	12623	12546
Prowler	6263	5667	6248	10558	12029	11799
Thunder	6319	5120	5407	12320	12323	11952
526	6027	5260	6239	10714	12728	13275
OAC Minto	6061	4806	5160	12146	12115	11576
Glory	6428	5595	6045	11985	13086	12579
CV (%)	12.4	6.2	8.5	13.1	3.3	4.6
LSD (5%)	1020	460	693	852	583	794

Table 14 Alfalfa yield trial (Medium). Experiment 2851
Elora 1985 yield data. Seeded 1983.

Code	Entry	Cut 1	Cut 2	Cut 3	Total Kg/Ha
1060	GLORY	5943	4354	5843	16141
1148	Ca 744	5339	4632	5680	15651
1149	LSC 216	5523	4645	5697	15866
1150	79-12,5	5367	4099	5537	15003
1151	79003	5339	4290	5270	14898
1155	COMSEL	5410	4583	5705	15699
1156	SC POLY 2	5172	4454	5470	15096
1169	XAF12	5790	4707	5922	16419
1170	79001	5106	4641	5569	15315
1171	80012	5412	4511	5728	15650
1172	CW 241	5411	4757	5924	16092
1173	LSC 110	5592	4339	5628	15559
1175	OSX2-9114	5136	4279	5915	15330
1176	VW33-2	5432	4323	5395	15151
1177	OT 83-3	5609	4461	5505	15575
1174	LSC 308	5117	4386	5583	15085
1501	IROQUOIS	5259	4338	5493	15090
1504	520	5544	4636	5848	16028
	MEAN (KG/HA):	5417	4469	5651	15536
	LSD 5% (KG/HA):	679	497	328	972
	C.V. %:	9.0	8.0	4.2	4.5

Table 15 Alfalfa yield trial (Medium). Experiment 3072
 Kemptville 1985 yield data. Seeded 1983

Code	Entry	Cut 1	Cut 2	Cut 3	Total Kg/Ha
1169	XAF 12	6298	5213	3199	14710
1172	CW 241	6166	5136	3122	14425
1149	LSC 216	5784	5013	3241	14038
1156	SC POLY 2	5867	4812	3155	13934
1148	CA 744	5749	5012	3154	13915
1504	PIONEER 520	6101	4839	2817	13757
1174	LSC 308	5802	4743	3152	13697
1176	VW 33-2	5976	4784	2775	13535
1501	IROQUOIS	6085	4566	2882	13534
1175	OSX2-9114	5686	4770	3074	13530
1060	GLORY	5773	4872	2837	13482
1150	OSECO 79-12,5	5891	4707	2838	13435
1151	79003	5695	4951	2753	13400
1171	80012	5753	4773	2862	13388
1155	COMSEL	5582	4699	3057	13338
1173	LSC 110	5587	4736	2791	13114
1170	79001	5669	4455	2968	13093
1177	OT-83-3	5524	4610	2701	12835
	MEAN (KG/HA):	5838	4816	2965	13620
	LSD 5% (KG/HA):	500	349	297	661
	C.V. %:	6.0	5.1	7.0	3.4

Table 16 Alfalfa yield trial (Medium). Experiment 1090
Ridgetown 1985 yield data. Seeded 1983.

Code	Entry	Cut 1	Cut 2	Cut 3	Total Kg/Ha
9026	OSECO 79-12	5009	6496	895	12400
9003	GLORY	5216	6303	796	12314
9000	PIONEER 520	5018	6400	829	12248
9027	LSC 216	5091	6189	863	12143
9029	XAF 12	4825	6396	909	12130
9028	CA 744	5075	6054	911	12040
9025	79003	4833	6163	868	11864
9034	LSC 308	4861	6070	930	11862
9023	COMSEL	4763	6247	821	11831
9032	CW 241	4907	5948	945	11800
9004	IROQUOIS	4822	5958	930	11709
9031	80012	4785	5965	945	11694
9035	OSX2-9114	4764	6086	800	11650
9024	SC POLY2	4761	5894	865	11519
9030	79001	4618	5906	775	11300
9036	VW 33-2	4785	5591	770	11146
9033	LSC 110	4725	5649	767	11140
9037	OT 83-3	4439	5507	761	10708
	MEAN (KG/HA):	4850	6046	854	11750
	LSD 5% (KG/HA):	510	579	218	911
	C.V. %:	6.3	5.8	15.4	4.7

MEDIUM ALFALFA '83 #3072 - 1985

Table 17

Soil Type: Clay LoamLocation: Range W3, WinchesterTest Size: 100' x 80'Seeding Rate: 13 kg/haHerbicide: EPTAM @ 4.25 L/ha on May 18/83

EMBUTOX E (2,4-D,B) @ 2.5 L on June 15/83

Fertilizer: Fall '83 0-46-0 @ 300 lbs/ac

Fall '84 0-32-17 @ 300 lbs/ac

Planting Date: May 19/83Harvest Date: Cut 1 - June 7/85

Cut 2 - July 17/85

Cut 3 - Aug. 20/85

CODE	NAME	CUT 1	CUT 2	CUT 3	TOTAL kg/ha
1169	XAG 12	6298	5213	3199	14710
1172	CW 241	6166	5136	3122	14425
1149	LSC 216	5784	5013	3241	14038
1156	SC POLY 2	5967	4812	3155	13934
1148	CA 744	5749	5012	3154	13915
1504	Pioneer 520	6101	4839	2817	13757
1174	LSC308	5802	4743	3152	13697
1176	VW 33-2	5976	4784	2775	13535
1501	Iroquois	6085	4566	2882	13534
1175	OSX2-9114	5686	4770	3074	13530
1060	Glory (MLM 0201)	5773	4872	2837	13482
1150	Oseco 79-12.5	5891	4707	2838	13435
1151	79003	5695	4951	2753	13400
1171	80012	5753	4773	2862	13388
1155	Comsel	5582	4699	3057	13338
1173	LSC110	5587	4736	2791	13114
1170	79001	5669	4455	2968	13093
1177	OH-83-3	5524	4610	2701	12835
LSD 5% (kg/ha)		500	349	297	661
TOTAL MEAN (kg/ha)		5838	4816	2965	13620
C.V. =		6.0	5.1	7.0	3.4

Table 18 Alfalfa yield trial (Medium). Experiment 2856
Elora, 1985 yield data. Seeded 1984.

Code	Entry	Cut 1	Cut 2	Cut 3	Total Kg/Ha
9000	520	6435	3237	2173	11845
9002	120	6259	3315	2254	11828
9003	GLORY	6428	3309	2247	11985
9004	IROQUOIS	6168	3657	2485	12310
9006	OAC MINTO	6061	3743	2342	12146
9009	PIONEER 526	6027	2951	1737	10714
9015	THUNDER	6319	3654	2348	12320
9018	Ca 838	6692	3509	2202	12403
9021	PROWLER	6263	2940	1355	10558
9030	79001	6078	3291	2025	11395
9031	80012	6226	3169	1948	11343
9032	CW 241	7618	3913	2696	14228
9033	LSC 110	6974	3636	2576	13187
9034	LSC 308	6548	3629	2469	12647
9035	OSX2-9114	6098	3450	2333	11881
9036	VW 33-2	5365	2961	1732	10059
9037	OT 83-3	7443	3389	2170	13002
9038	NK 82503	6694	3150	1798	11642
9039	NAPB 21	6730	3428	2142	12299
9040	MOHAWK	6812	3348	2113	12273
9041	NY 8301	6505	3553	2334	12392
9042	OT 84-4	6788	3820	2484	13092
9043	OT 83-2	6478	3591	2222	12291
9044	OT 83-1	6173	3207	2102	11482
9045	82001	5760	3060	1842	10662
9046	CGA 8402	6200	3384	2141	11725
9047	N3150	6453	3134	2048	11636
	MEAN KG/HA:	6429	3386	2160	11976
	LSD 5% (KG/HA):	1020	536	507	1852
	C.V. %:	13.4	13.4	19.9	13.1

Table 19 Alfalfa yield trial (Medium). Experiment 3082
Kemptville 1985 yield data. Seeded 1984

Code	Entry	Cut 1	Cut 2	Cut 3	Total Kg/Ha
1172	CW 241	5279	4696	3327	13303
1200	OT 84-4	5005	4686	3363	13104
1060	GLORY	5595	4315	3176	13086
1174	LSC 308	5302	4377	3346	13025
1186	OT 83-1	5444	4139	3397	12980
1071	DEKALB 120	5563	4395	2937	12896
1199	NY 8301	5422	4240	3219	12881
1504	PIONEER 520	5219	4308	3232	12758
1196	NK 82503	5410	4213	3119	12741
1127	PIONEER 526	5260	4148	3320	12728
1202	82001	5121	4546	3041	12709
1203	CGA 8402	5352	4050	3266	12669
1131	CA 838	5462	4082	3079	12623
1171	80012	5145	4393	3060	12599
1175	OSX2-9114	5298	4082	3218	12598
1201	OT 83-2	5188	4215	3186	12588
1204	N 3150	5226	4238	2989	12452
1128	THUNDER	5120	4274	2928	12323
1501	IROQUOIS	5175	4165	2942	12281
1173	LSC 110	5226	4003	2926	12154
1197	NAPB 21	5118	3977	3036	12132
1091	MINTO	4806	3907	3401	12115
1170	79001	5094	4043	2928	12065
1177	OT-83-3	5015	4157	2885	12056
1198	MOHAWK	4975	4166	2911	12052
1176	VW 33-2	5267	4195	2589	12051
1134	79172	5667	3971	2391	12029
	MEAN (KG/HA):	5252	4222	3082	12555
	LSD 5% (KG/HA):	460	317	283	583
	C.V. %:	6.2	5.3	6.5	3.3

Table 20 Alfalfa yield trial (Medium). Experiment 4043
Ottawa, 1985 yield data. Seeded 1984.

Code	Entry	Cut 1	Cut 2	Cut 3	Total Kg/Ha
9009	PIONEER 526	6239	4199	2837	13275
9004	IROQUOIS	6053	4010	2720	12783
9047	N3150	6018	4040	2603	12661
1504	PIONEER 520	5947	4000	2691	12638
9040	MOHAWK	6027	4010	2564	12601
9003	GLORY	6045	3960	2574	12579
9018	CA 838	5868	3851	2828	12546
9002	120	6053	3861	2574	12488
9035	OSX2-9114	5761	4099	2623	12483
9033	LSC 110	5885	4030	2545	12460
9041	NY 8301	5708	4259	2438	12404
9046	CGA 8402	5823	3980	2584	12387
9038	NK 82503	5584	4179	2613	12376
9034	LSC 308	5567	4159	2584	12310
9043	OT 83-2	5823	3920	2535	12279
9042	OT 84-4	5540	4030	2564	12134
9039	NAPB 21	5522	3960	2633	12115
9036	VW 33-2	5726	3950	2428	12104
9032	CW 241	5558	4050	2486	12094
9045	82001	5620	3960	2457	12037
9031	80012	5505	4020	2486	12011
9044	OT 83-1	5629	3821	2555	12004
9015	THUNDER	5407	4020	2525	11952
9037	OT 83-3	5956	3552	2301	11809
9021	PROWLER	6248	3542	2009	11799
9030	79001	5514	3681	2467	11662
9006	OAC MINTO	5160	3930	2486	11576
	MEAN (KG/HA):	5770	3966	2545	12280
	LSD 5% (KG/HA):	693	317	234	794
	C.V. %:	8.5	5.7	6.5	4.6

MEDIUM ALFALFA '84 #3082 - 1985

Table 21
Soil Type: Clay Loam
Previous Crop: Soybeans
Location: W11, Winchester
Test Size: 140' x 80'
Seeding Rate: 13 kg/ha
Herbicide: EPTAM @ 4.25 L/ha at planting
 EMBUTOX E (2,4-D,B) @ 3.0 L at 3 leaf stage
Fertilizer: Fall '83 0-46-0 300 lbs/ac
 Fall '84 0-32-17 350 lbs/ac
 Fall '85 0-32-17 300 lbs/ac
Planting Date: May 17/84
Harvest Date: Cut 1 - June 7/85
 Cut 2 - July 17/85
 Cut 3 - Aug. 20/85

CODE	NAME	CUT 1	CUT 2	CUT 3	TOTAL kg/ha
1172	CW 241	5279	4696	3327	13303
1200		5055	4686	3363	13104
1060	Glory (MLM 0201)	5595	4315	3176	13086
1174	LSC308	5302	4377	3346	13025
1186		5444	4139	3397	12980
1071	Dekalb 120	5563	4395	2937	12896
1199		5422	4240	3219	12881
1504	Pioneer 520	5219	4308	3232	12758
1196		5410	4213	3119	12741
1127	Pioneer 526	5260	4148	3320	12728
1202		5121	4546	3041	12709
1203		5352	4050	3266	12669
1131	CA 838	5462	4082	3079	12623
1171	80012	5145	4393	3060	12599
1175	OSX2-9114	5298	4082	3218	12598
1201		5188	4215	3186	12588
1204		5226	4238	2989	12452
1128	NAPB 90	5120	4274	2928	12323
1501	Iroquois	5175	4165	2942	12281
1173	LSC110	5226	4003	2926	12154
1197		5118	3977	3036	12132
1091	Minto (OAC 76-1)	4806	3907	3401	12115
1170	79001	5094	4043	2928	12065
1177	PH-83-3	5015	4157	2885	12056
1198		4975	4166	2911	12052
1176	VW 33-2	5267	4195	2589	12051
1134	79172	5667	3971	2391	12029
LSD 5% (kg/ha)		460	317	283	583
TOTAL MEAN (kg/ha)		5252	4222	3082	12555
C.V. =		6.2	5.3	6.5	3.3

Northrup King Seeds Ltd., Alfalfa Licensing Trial, Arva
1984 Seeding, 1985 Yields

Table 22

Variety	Yield (kg/ha)		
	Cut 1	Cut 2	Total
Saranac	5172	3611	8781
Citation	5489	3452	8942
919 Brand	5670	3715	9381
Drummor	5670	3452	9120
Preserve	5610	3661	9270
82503	5055	3452	8506
82504	4519	3243	7761
Spredor 2	5946	3506	9450
Thor	4877	3661	8536
Apica	5511	3975	9484
Trumpetor	5670	3715	9381
Apollo II	5036	3297	8329
83583	5432	3686	9117
83582	6066	3636	9699
82506	4639	3243	7880
22582	6145	3845	9988
Iroquois	5806	3611	9416
D.K. 120	6085	3950	10033
CV (%)	15.0	12.2	12.4
LSD (5%)	973.2	521.8	1333.9

Notes:

Design: R.C.B.
 Date Seeded: May 4, 1984
 Seeding Method: 5 row plot seeder
 Soil Type: Silt loam
 Plot Size: 6.0 m x 1.35 m
 Harvest Area: 6.0 m x 0.60 m
 Fertilizer: 350 kg/ha 6-24-26 June/84
 350 kg/ha 0-20-20 April/85
 Herbicide: 350 kg/ha 6-24-24 Aug/85
 Eptam 4.0 l/ha (P.P.I.)
 2,4-DB 4.0 l/ha (Post)

Pickseed Alfalfa Licensing Trial, Blenheim
1984 Seeding, 1985 Yields

Table 23

Entry	Yield (kg/ha)			Total
	Cut 1	Cut 2	Cut 3	
Exp C	7400	5540	4240	17180
Exp H	7230	5580	4290	17100
CW140	7430	5610	4220	17260
8302	7590	5380	4110	17080
CW241	7310	5480	4040	16830
WL78WI	7430	5480	4160	17070
Exp K	7340	5460	4100	16900
79005	7470	5510	3980	16960
Exp D	7180	5410	4090	16680
Exp F	7340	5350	4030	16720
Exp E	7300	5270	4010	16580
02-1979-2-1	7420	5250	3900	16570
Exp J	7150	5260	4030	16440
8301	7390	5340	3720	16450
Exp A	7200	5120	3890	16210
Exp B	7010	5210	3940	16160
3501	7000	5070	3930	16000
Exp G	6990	5130	3670	15790
120	7200	5410	3520	16130
82004	7140	5190	3590	15920
Banner	6790	5100	3880	15770
Citation	7470	5150	3240	15860
520	7150	5060	3270	15480
Iroquois	6470	4930	3380	14780
02-1981-11	6350	5260	3420	15030
79003	6320	4850	3600	14770
Saranac	6470	4850	3470	14790
82003	6470	4930	3220	14620
80012	6490	4780	3300	14570
82001	6390	4910	3070	14370
82002	6270	4910	3130	14310
79001	6060	4820	3310	14190
LSD (.05)	540	380	430	
CV (%)	5.5.	5.2	8.1	

Pioneer Alfalfa Licensing Trial, Chatham
1983 Seeding, 1985 Yields

Table 24

Cultivar	Yield (kg/ha)			
	Cut 1	Cut 2	Cut 3	Total
526	7744	5975	3830	17549
79C-1	7686	5712	4146	17544
520	7376	5646	3851	16874
81V-1	7202	5734	4272	17208
81I-1	7299	5822	4398	17519
81Y-1	7589	5931	3893	17413
80P-1	7531	6194	4566	18291
78F-2	7183	5581	4419	17183
Iroquois	7183	5537	3620	16339
Saranac	7008	5056	3178	15242
81W-1	7357	5909	4293	17559
532	7221	5559	4356	17136
DK120	7396	5822	3746	16963
YAR22	6970	5471	4503	16944
YAR21	7900	5931	4435	18266
81A-1	8035	5887	4735	18657
Banner	7008	5559	3767	16334
81B-1	7667	5471	4566	17705
81F-1	8247	6434	4756	19438
Vernal	7589	5253	3451	16293
524	7822	5625	4419	17865
81E-1	6989	5756	4461	17206
81G-1	7329	5503	4373	17205
81D-1	7434	6084	4503	18022
80R-1	7144	5646	4482	17273
80A-1	7415	5581	4482	17478
80E-1	7415	5723	4272	17410
XAF-12	7357	5975	4588	17919
81C-1	8015	5559	4335	17909
Harv. Means	7452	5722	4231	17405
CV (%)	6.3	6.3	8.2	4.1
LSD (5)	644.7	494.3	478.6	986.1

Pioneer Alfalfa Licensing Trial, Chatham
1984 Seeding, 1985 Yields

Table 25

Entry	Yield (kg/ha)			Total
	Cut 1	Cut 2	Cut 3	
526	7188	5507	4230	16924
Iroquois	6883	5794	3283	15960
82C-1	6984	5893	4482	17359
520	7071	5868	3251	16191
YAR32	6157	5811	4530	16497
Citation	7129	6073	3646	16848
83PF021	6839	5926	4498	17263
1115 82A-1	5808	6172	4577	16557
Banner	6331	5975	3977	16283
82B-1	6215	5999	4593	16807
81B-1	7086	6582	4467	18134
532	6287	5975	4372	16634
81I-1	6694	5811	4514	17018
DK120	7507	6122	4009	17638
83CV812	6563	5991	4545	17100
8350811	6926	6090	4530	17545
82F-1	6520	5909	4451	16879
81G-1	6273	6254	4356	16883
YAF31	6854	5737	4403	16994
Saranac	6868	5376	3535	15779
81E-1	6897	6221	4182	17301
82E-1	7231	5975	4530	17735
83SR231	6098	5129	4403	16230
82W-1	6331	6402	4372	17104
82D-1	6200	5335	3961	15496
XAR21	6810	5975	4514	17299
Harv. Means	6683	5942	4239	16864
CV (%)	6.0	6.9	8.4	4.5
LSD (5%)	471.3	483.0	420.6	902.8

Table 26 Alfalfa performance trial (Medium). Experiment 4016
Ottawa, 1985 yield data. Seeded 1983

Code	Entry	Cut 1	Cut 2	Cut 3	Total Kg/Ha
9007	PICKSTAR	6005	4320	1443	11768
1504	PIONEER 520	6365	3904	1273	11543
9003	GLORY	6571	3835	807	11213
9014	WEEVLCHEK	5789	3754	1429	10971
9004	IROQUOIS	6098	3765	821	10684
9012	VERNAL	6036	3604	991	10630
9008	PIONEER 524	5644	3719	1203	10566
9013	WL 215	6046	3800	679	10525
9010	TITAN	6056	3580	807	10443
9011	VALOR	5799	3488	948	10235
9002	120	5624	3800	778	10202
9001	ALGONQUIN	5624	3580	849	10053
9005	MAGNUM	5644	3419	552	9615
	MEAN (KG/HA):	5946	3736	968	10650
	LSD 5% (KG/HA):	790	600	753	1545
	C.V. %:	9.3	11.2	54.2	10.1

Table 27

Bacterial Wilt		Phytophthora	
Entry	DSI	Entry	DSI
DuPuits	3.7	OT84-5	3.4 (33)
Derby	3.1	XAR 21	3.1 (42)
81-120	2.2	SCPoly 2	3.1 (39)
NY8302	1.9	OSEC0 79-9,5	3.0 (44)
Trumpetor	1.8	81-120	2.9 (45)
OT84-4	1.7	OT83-3	2.9 (49)
KG 841	1.5	OT83-1	2.8 (52)
OT 83-4	1.5	OSX2-9113	2.8 (47)
ICB 31	1.4	OT84-4	2.7 (55)
XAR 21	1.3	Cw140	2.6 (55)
NK 82503	1.3	LSC 110	2.6 (60)
NY 8301	1.3	OT84-1	2.6 (60)
CGA8403	1.2	81T21	2.5 (61)
N2420	1.2	OT83-4	2.4 (64)
WL78W-1	1.2	532	2.4 (64)
OT83-1	1.1	CA760	2.4 (60)
Mohawk	1.1	CGA 8402	2.4 (64)
82001	1.0	OT81-1	2.3 (65)
NAPB 21	1.0	OT 84-2	2.3 (68)
N3150	1.0	DK-135	2.2 (70)
CGA8401	0.9	UCO-10	2.2 (65)
CA7931-32	0.9	CW241	2.2 (69)
LL3110A	0.9	NAPB 20	2.2 (71)
Vernal	0.8	Apollo II	2.1 (71)
LL3018	0.8	OT84-3	2.1 (67)
82-5	0.7	OT83-2	2.1 (70)
NAPB 23	0.7	LSC 309	2.1 (68)
LSC 305	0.7	NAPB 21	2.0 (75)
NAPB 20	0.7	NY 8301	2.0 (74)
OT83-2	0.7	CA744	1.9 (75)
CGA 8402	0.6	NAPB 108	1.9 (74)
NAPB 22	0.6	Trident	1.9 (74)
LSD (10%)	0.49	79001	1.9 (74)
		ICB 31	1.9 (76)
		Comsel	1.9 (82)
		Peak	1.9 (77)
		CA7931-32	1.8 (77)
		LSC 308	1.8 (81)
		LL3018	1.7 (80)
		Turbo	1.7 (81)
		CGA 8403	1.7 (81)
		Apollo	1.7 (81)
		NAPB 110	1.6 (83)
		N2420	1.6 (82)
		CGA 8401	1.6 (87)
		N3150	1.5 (85)
		NK 82503	1.5 (86)
		KG 841	1.5 (86)
		NAPB 23	1.5 (88)
		LL3110A	1.5 (85)
		LSC 305	1.4 (90)
		NAPB 22	1.3 (93)
		LSD (10%)	0.31

Kapuskasing 1983 Alfalfa Licensing Trials, % Survival, 1985

Table 28

Early (Exp. 6489)		Medium (Exp. 6468)	
WWB31	24	XAF12	29
O2-1981-1	23	79001	39
CW140	14	80012	36
NAPB110	30	CW241	25
NAPB108 (Endure)	38	LSC-110	14
Hunter	21	LSC-308	26
LSC309	44	OSX2-9114	15
OSX2-9113	36	Comsel	16
Ca760	24	SCPoly2	29
81T21	23	79003	27
OAC81-120R	33	OSEC0 79-12,5	24
Trumpetor	21	LSC216	12
OAC81-119R	22	Ca744	22
OT81-1	38	Glory	9
SC3704	40	VW-33-2	30
UCO 10 (Excalibur)	19	Iroquois	29
8015 (DK 135)	18	520	17
Gemini	35	OT83-3	1
79005	32		
Banner	25		
OSEC0 79-9-5	21		
Cimarron	20		
LSC214	42		
LSC215	24		
Apollo II	30		
Saranac	37		
78T4 (WL316)	30		
OAC 80-105	2		
VS25 (Star)	38		

BIRDSFOOT TREFOIL VARIETIES

CURRENT STATUS OF VARIETIES - Jan. 15, 1986

<u>Code</u>	<u>Variety</u>	<u>Entered by</u>	<u>Official Status</u>	<u>Station Years</u> <u>of Data</u>
7003	Empire	O.F.C.C.	Recommended, Publ. 296	-
7001	Leo	O.F.C.C.	Recommended, Publ. 296	-
7010	Maitland	O.F.C.C.	Recommended, Publ. 296	-
7004	Viking	O.F.C.C.	Recommended, Publ. 296	-
7033	01004	Pickseed	Supported for lic. Def (1)	
7032	PS79055	Pickseed	No support '85 re-examine '86	12
7031	RC4SY2	U. of Guelph	No support '85 re-examine '86	11

KEMPTVILLE - TREFOIL '83 #3077 - 1985

Soil Type: Clay LoamLocation: Range W3, WinchesterTest Size: 50' x 80'Seeding Rate: 11 kg/haHerbicide: EPTAM @ 4.25 L/ha on May 18/83

EMBUTOX E (2,4-D,B) @ 2.5L on June 15/83

Fertilizer: Fall '83 0-46-0 300 lbs/ac

Fall '84 0-32-17 300 lbs/ac

Planting Date: May 19/83Harvest Date: Cut 1 - June 19/85

Cut 2 - July 23/85

A = TKEMP83-85

CODE	NAME	CUT 1	CUT 2	CUT 3	TOTAL kg/ha
7001	Leo	3778	2046	0	5823
7003	Empire	3874	1752	0	5626
7004	Viking	3733	1864	0	5597
7031	RC4 SYN-2	3797	1773	0	5571
7010	Maitland	3568	1983	0	5552
7033	MLM 01004	3511	1988	0	5498
7032	PS 79055	3609	1856	0	5465
LSD 5% (kg/ha)		470	189	0	514
TOTAL MEAN (kg/ha)		3696	1895	0	5590
C.V.		8.6	6.7	0	6.2

'84 TREFOIL - ELORA

HARVESTED 1985

MEAN YIELD (kg/ha)

A=TELOR8485

CULTIVAR	1st CUT	2nd CUT	TOTAL
7001 Leo	5981	2049	8030
7003 Empire	5897	1955	7852
7004 Viking	5696	2026	7723
7010 Maitland	5613	2082	7695
7031 RC4 SYN2	6344	2081	8425
7032 PS 79055	6116	2019	8135
7033 MLM 01004	6327	2087	8414
LSD 5%	442.0	82.4	437.8
CV	6.0%	3.3%	4.4%

KEMPTVILLE - TREFOIL TEST '84 #3084 - 1985

Soil Type: Clay LoamPrevious Crop: SoybeansLocation: W11, WinchesterTest Size: 45' x 80'Seeding Rate: 11 kg/haHerbicide: EPTAM @ 4.25 at planting

EMBUTOX E(2,4-D,B) @ 3.0 L/ha at 1-3 leaf stage

Fertilizer: Fall '83 0-46-0 @ 300 lbs/ac

Fall '84 0-32-17 @ 350 lbs/ac

Fall '85 0-32-17 @ 300 lbs/ac

Planting Date: May 16/84Harvest Date: Cut 1 - June 19/85

Cut 2 - July 23/85

A=TKEMP84-85

CODE	NAME	CUT 1	CUT 2	CUT 3	TOTAL kg/ha
7001	Leo	6207	2587	0	8794
7031	RC4 SYN-2	6202	2325	0	8526
7010	Maitland	5572	2696	0	8267
7033	MLM 01004	5581	2447	0	8028
7003	Empire	5650	2227	0	7876
7032	PS 79055	5725	2086	0	7811
7004	Viking	5211	2348	0	7559
L.S.D. 5% (kg/ha)		459	303	0	688
TOTAL MEAN (kg/ha)		5735	2388	0	8123
C.V. =		5.4	8.5	0	5.7

Pickseed Private Trefoil Licensing Trial, Elmira, 1985

Data (T/ha) From 1984 Seeding

A: TELM84-85

<u>Entry</u>	<u>Cut 1</u>	<u>Cut 2</u>	<u>Cut 3</u>	<u>Total</u>	
7010 Maitland	4.48	3.78	3.07 2.25	10.51	10510
7027 Mirabel	4.86	3.96	1.67	10.49	10490
7001 Leo	4.62	3.82	1.94	10.38	10380
7033 01004	4.76	3.76	1.75	10.27	10270
7032 79055	5.00	3.68	1.57	10.25	10256
7004 Viking	4.56	3.48	2.00	10.04	10040
7003 Empire	4.65	3.48	1.69	9.82	9820
C.V. %	6.73	7.75	10.05	4.10	
Mean T/ha	4.70	3.64	1.84	10.25	
Lsd (.05)T/ha	0.47	0.42	0.28	0.65	

TREFOIL DELETIONS 1985

CULTIVAR	ELORA 84-85	KEMPTVILLE 83-85	KEMPTVILLE 85-85	MEAN	% OF CHECK
Leo	8030	5823	8794	7549.0	100
Empire	7852	5626	7876	7118.0	94.3
Viking	7723	5597	7559	6959.7	92.2
Maitland	7695	5552	8267	7171.3	95.0

DELETIONS ON TREFOIL - HISTORICAL

1982 - NIL

1983 - Empire 77.7% of check - 2 tests
 Viking 89.2% of check - 2 tests
 Maitland 90.6% of check - 2 tests

1984 - All above 95% of check

1985 - Empire 94.3% of check - 3 tests
 Viking 92.2% of check - 3 tests

RED CLOVER VARIETIES

CURRENT STATUS OF VARIETIES - Jan. 15, 1986

<u>Code</u>	<u>Variety</u>	<u>Entered by</u>	<u>Official Status</u>	<u>Station Years of Data</u>
4023	Arlington	O.F.C.C.	Recommended, Publ. 296	-
4017	Florex	O.F.C.C.	Recommended, Publ. 296	-
4002	Lakeland	O.F.C.C.	Recommended, Publ. 296	-
4003	Ottawa	O.F.C.C.	Recommended, Publ. 296	-
4027	Prosper I	O.F.C.C.	Recommended, Publ. 296	-
4037	Kuhn	Landis		6
4036	W116	King Grain		8
4034	W115	N.K.		8
4035	YKYC	N.K.		8
4038	BCHG 0384	Bonis		4
4039	OT83-1	Ottawa Rs. St.		4
4040	Molly	Bonis		2
4045	Viola	Nemec		2
4041	W-111	N.K.		3
4042	W-113	N.K.		3
4043	Violetta	Oseco		2
4044	Reddy	U.C.O.		2
4047	Hamidori 4N	King		2
4046	Hamidori 2N	King		2
4048	03-1982-1	Pickseed		0
4049	Starglo	Oseco		0

1984 RED CLOVER - ELORA

A- RCELOR84-85

HARVESTED 1985

CULTIVAR	MEAN YIELD (kg/ha)		TOTAL
	1st CUT	2nd CUT	
4002 Lakeland	6971	2332	9303
4003 Ottawa	6105	2384	8489
4017 Florex	7104	2295	9399
4023 Arlington	7096	2341	9436
4027 Prosper I	6431	2379	8810
4034 W115	6744	2298	9042
4035 YKYC	6115	2351	8466
4036 W116	6866	2347	9213
4037 Kuhn	5958	2331	8288
4038 BCHG0384	7452	2267	9719
4039 OT83-1	6680	2356	9036
4040 Molly	7297	2298	9595
4041 W111	6122	2317	8439
4042 W113	6039	2329	8368
4043 Violetta	5868	2361	8229
4044 Reddy	6443	2303	8746
4045 Viola	6608	2371	8980
4046 Hamidori (2N)	6757	2273	9031
4047 Hamifori (4N)	6857	2325	9182
LSD (5%)	501.1	113.2	503.1
CV	6.4%	4.1%	4.7%

A:RC084.85

OTTAWA - RED CLOVER Seeded 1984
Harvested 1985

Name	Cut 1	Cut 2	Total
W111	5109	1762	4041 6872
Ottawa	4900	1993	4003 6893
YKYC	5189	1223	4035 6412
Reddy	4769	1628	4044 6396
W113	4795	1449	4042 6245
Kuhn	5283	1766	4037 7049
Violetta	4744	1986	4043 6729
Florex	4564	970	4017 5533
Lakeland	4588	1433	4002 6021
Viola	4657	1977	4045 6634
W-116	4361	1231	4036 5592
Arlington	4461	1475	4023 5936
W-115	4245	879	4034 5124
Prosper I	4229	1220	4027 5449
BCHG0384	5459	363	4038 5822
OT83-1	3970	1042	4048 5012
Molly	4176	582	4040 4758
C.V.	6.80	15.50	6.65

Cut 1 - June 25

Cut 2 - July 23

Cut 3 - Aug. 29

Northrup King Seeds Ltd., Red Clover Licensing Trial, Arva
1984 Seeding, 1985 Yields

A RCNK84-85

Variety	Yield (kg/ha)		
	Cut 1	Cut 2	Total
Florex	6259	2411	<i>4017</i> 8669
W111	6960	2497	<i>4041</i> 9457
W113	6329	2177	<i>4042</i> 8506
W115	6767	2337	<i>4034</i> 9104
W116	6837	2401	<i>4036</i> 9238
YKYC	5698	2113	<i>4035</i> 7810
CV (%)	9.8	8.8	8.1
LSD (0.05)	782.9	253.5	878.3

Notes:

Design: R.C.B.
 Date Seeded: May 4, 1984
 Seeding Method: 5 row plot seeder
 Soil Type: Silt loam
 Plot Size: 6.0 m x 1.35 m
 Harvest Area: 6.0 m x 0.60 m
 Fertilizer: 350 kg/ha 6-24-26 June/84
 350 kg/ha 0-20-20 April/85
 350 kg/ha 6-24-24 Aug/85
 Herbicide: Eptam 4.0 l/ha (P.P.I.)
 Tropotox Plus 4.0 l/ha (Post)

RED CLOVER DELETIONS 1985

CULTIVAR	ELORA 84-85	OTTAWA 84-85	MEAN	% OF CHECK
Lakeland	9303	6021	7662	102.6
Ottawa	8489	6893	7691	103.0
Florex	9399	5533	7466	100.0
Arlington	9436	5936	7686	102.3
Prosper I	8810	5449	7130	95.5

DELETIONS ON RED CLOVER - HISTORICAL

1982 - Lakeland	92.3% of check on 6 tests
Ottawa	84.4% of check on 6 tests
Arlington	92.4% of check on 6 tests
Prosper I	93.7% of check on 6 tests
1983 - Arlington	94.7% of check on one test
Ottawa	84.3% of check on one test
1984 - all above 95%	
1985 - all above 95%	

WHITE CLOVER VARIETIES

CURRENT STATUS OF VARIETIES - Jan. 15, 1986

<u>Code</u>	<u>Variety</u>	<u>Entered by</u>	<u>Official Status</u>	<u>Station Years of Data</u>
8005	Sacramento	O.F.C.C.	Recommended, Publ. 296	-
8007	California	O.F.C.C.	Temporary licence, to Dec. 31, 1986	9
	Ladino			
8009	Crown	Nemec		7
8010	Canopy	Nemec		7

'84 WHITE CLOVER - ELORA

A: WCELO84.85

HARVESTED 1985

CULTIVAR	MEAN YIELD (kg/ha)			TOTAL
	1st Cut	2nd Cut	3rd Cut	
8003 Common	4937	2814	2225	9976
8005 Sacramento	2948	2509	2208	7666
8007 Cal. Ladino	3074	2559	2324	7958
8008 Pick. Ladino	3210	2656	2299	8165
8009 Crown	3153	2389	2290	7833
8010 Canopy	3069	2151	2349	7569
LSD (5%)	578.6	492.5	92.7	898.1
CV	17.3	19.9%	4.1%	11.1

Exp. 1087

 WHITE CLOVER VARIETIES
 R.C.A.T. 1984 (Seeded 1983)

A-WCR 83-84

Variety	Cut 1	Cut 2*	Cut 3	Cut 4	Total (kg/ha D.M.)	
Crown	4255	2583	1862	888	8009	9338
Canopy	4197	2489	1632	708	8010	8763
Calif. Ladino	4196	2470	1376	598	8007	8554
Sacramento	4022	2056	1343	634	8005	7810
Ladino (Pick)	3991	2426	1277	592	8008	7920
Common	3923	1818	961	560	8003	6998
Mean	4097	2307	1408	663		8230
C.V.	6.5	9.0	7.8	15.1		7.0

*Note: only 2 reps included in cut - 3 reps for all others

'83 WHITE CLOVER #1087 - RIDGETOWN

A-WCR 83-85

HARVESTED 1985

CODE	NAME	CUT 1	CUT 2	TOTAL kg/ha
8007	Calif. Ladino	2719	776	3495
8008	Ladino (Picksee)	2651	734	3385
8009	Crown	2181	870	3051
8003	Common	2483	566	3049
8005	Sacramento	2304	685	2989
8010	Canopy	2143	805	2948
	LSD 5% (kg/ha)	613	147	674
	TOTAL MEAN (kg/ha)	2413	739	3153
	CV =	13.9	10.9	11.7

BROME PERFORMANCE TRIAL. Experiment 4383
Ottawa, 1985 Yield Data. Seeded 1983

Code	Entry	Cut 1	Cut 2	Total (kg/ha)
2001	Baylor	7487	4184	11670
2012	Blair	6833	3814	10647
2030	Bromex	6691	3699	10390
2002	Saratoga	6431	3645	10076
2039	Bravo	6325	3422	9746
2024	Tempo	6379	3122	9701
2027	Beacon	5782	3245	9028
	Mean (kg/ha)	6590	3590	10180
	LSD (kg/ha)	829	333	936
	C.V. %	8.5	6.3	6.2

BROME PERFORMANCE TRIAL. Experiment 4384
Ottawa, 1985 Yield Data. Seeded 1984

Code	Entry	Cut 1	Cut 2	Total (kg/ha)
2027	Beacon	6054	4148	10203
2001	Baylor	6220	3664	9884
2030	Bromex	6200	3572	9772
2012	Blair	5700	3925	9695
2002	Saratoga	5774	3881	9655
2024	Tempo	5887	3627	9515
2039	Bravo	5081	3691	8772
	Mean (kg/ha)	5855	3787	9642
	LSD (kg/ha)	555	482	789
	C.V. %	6.4	8.6	5.5

BROME GRASS VARIETIES

CURRENT STATUS OF VARIETIES - Jan. 15, 1986

<u>Code</u>	<u>Variety</u>	<u>Entered by</u>	<u>Official Status</u>	<u>Station Years of Data</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	-
2039	Bravo	O.F.C.C.	Recommended, Publ. 296	-
2044	Kesto	Ottawa		

REED CANARY VARIETIES

CURRENT STATUS OF VARIETIES - Jan. 15, 1986

<u>Code</u>	<u>Variety</u>	<u>Entered by</u>	<u>Official Station</u>	Station Years <u>of Data</u>
5002	Frontier	O.F.C.C.	Recommended, Publ. 296	-
5016	Vantage	O.F.C.C.	Recommended, Publ. 296	-
5015	Venture	Landis		5
5013	Palaton	Oseco		5
5014	Rival (UM80-06)	U. of Manitoba		5
5016	3-425	OFCC		5

OFCC REED CANARYGRASS TESTING 1985

Eight cultivars were tested at five stations. Since this is the first year of the present test, none of the new cultivars are eligible for consideration at this time.

Each cultivar will be tested for alkaloids that affect palatability and forage intake. Dr. Bruce Coulman is doing this work at Macdonald College. He will test for the presence or absence of tryptamines and carbolines, and subsequently determine the gramine concentration of cultivars free of these two alkaloids. Samples were collected this summer at Ottawa. However some technical difficulties developed during the chemical analysis, and Bruce is not satisfied with the data. He is currently on sabbatical leave until December, but will be able to complete the analysis at that time. Since there is very little genotype x environment interaction for these traits, I feel that it is not necessary to repeat the sampling in 1986, although Bruce is willing to undertake this work again. The cost is \$10. per sample (8 entries x 4 reps).

It will be necessary to decide next year how we handle this information. These alkaloids have been shown to have significant effects on dry matter intake, palatability and animal gains, but of course the degree of the effects varies between experiments. I suggest that data on the three alkaloids be included in Publication 296, and a statement be included to indicate that better animal performance can be expected with the low alkaloid types.

OFCC REED CANARY TEST
1985 YIELD FROM 1984 SEEDING

EXPERIMENT 2861 GUELPH, ONTARIO

CODE	NAME	CUT 1	CUT 2	TOTAL
5002	FRONTIER	8088	4194	12282
5005	RISE	7718	3510	11228
5010	GROVE	7392	4280	11672
5011	VANTAGE	7713	4010	11723
5013	PALATON	8412	3796	12208
5014	REGALE	7699	3850	11549
5015	3-425	7618	4214	11832
5016	VENTURE	7928	4073	12001

C.V.	6.5	10.5	4.2
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OFCC REED CANARY TEST
1985 YIELD FROM 1984 SEEDING

EXPERIMENT 6059 KAPUSKASING, ONTARIO

CODE	NAME	CUT 1	CUT 2	CUT 3	KG/HA
5011	VANTAGE	4207.	3608.	0.	7814.
5016	VENTURE	4156.	3514.	0.	7671.
5005	RISE	4044.	3496.	0.	7540.
5002	FRONTIER	4019.	3320.	0.	7339.
5010	GROVE	3940.	3393.	0.	7333.
5013	PALATON	4010.	3261.	0.	7271.
5014	REGALE	3889.	3216.	0.	7105.
5015	3-425	3787.	3306.	0.	7093.
LSD 5% (KG/HA)		634.	380.	0.	830.
TOTAL MEAN (KG/HA)		4007.	3389.	0.	7396.
CV=		10.8	7.61	0.0	7.2

OFCC REED CANARY TEST
1985 YIELD FROM 1984 SEEDING

EXPERIMENT 8302 NEW LISKEARD, ONTARIO

CODE	NAME	CUT 1	CUT 2	CUT 3	KG/HA
5005	RISE	5527.	2304.	0.	7831.
5011	VANTAGE	5049.	2723.	0.	7772.
5010	GROVE	5368.	2218.	0.	7587.
5013	PALATON	5493.	2005.	0.	7498.
5016	VENTURE	5289.	2194.	0.	7483.
5002	FRONTIER	5250.	2222.	0.	7472.
5014	REGALE	4939.	2474.	0.	7414.
5015	3-425	5111.	1793.	0.	6904.
LSD 5% (KG/HA)		592.	325.	0.	611.
TOTAL MEAN (KG/HA)		5253.	2242.		7495.
CV=		7.7	9.9	0.0	5.5

OFCC REED CANARY TEST
1985 YIELD FROM 1984 SEEDING

EXPERIMENT 4484 OTTAWA, ONTARIO

CODE	NAME	CUT 1	CUT 2	CUT 3	KG/HA
5013	PALATON	7783.	2701.	0.	10483.
5015	3-425	7229.	3176.	0.	10404.
5016	VENTURE	7798.	2414.	0.	10212.
5005	RISE	7761.	2377.	0.	10138.
5011	VANTAGE	7312.	2810.	0.	10122.
5010	GROVE	7486.	2571.	0.	10057.
5002	FRONTIER	6906.	2533.	0.	9439.
5014	REGALE	7132.	2100.	0.	9232.
LSD 5% (KG/HA)		701.	475.	0.	1011.
TOTAL MEAN (KG/HA)		7426.	2585.	0.	10011.
CV=		6.4	12.5	0.0	6.9

OFCC REED CANARY TEST
1985 YIELD FROM 1984 SEEDING

EXPERIMENT 7168 THUNDER BAY, ONTARIO

CODE	NAME	CUT 1	CUT 2	CUT 3	KG/HA
5011	VANTAGE	5235.	3672.	0.	8908.
5013	PALATON	5450.	3347.	0.	8797.
5015	3-425	5000.	3717.	0.	8717.
5002	FRONTIER	5170.	3451.	0.	8621.
5014	REGALE	4572.	3250.	0.	7822.
5010	GROVE	4498.	3309.	0.	7808.
5005	RISE	4334.	3337.	0.	7671.
LSD 5% (KG/HA)		757.	317.	0.	974.
TOTAL MEAN (KG/HA)		4894.	3440.		8335.
CV=		10.4	6.2	0.0	7.9

OFCC REED CANARY GRASS TEST
SUMMARY OF 1984 SEEDING
TOTAL YIELD (KG/HA)

CODE	NAME	GUELPH	OTTAWA	KAP	THUNDER BAY	NEW LISKEARD	3- STATION MEAN
5002	FRONTIER	12282	9439	7339	8621	7472	9031
5005	RISE	11228	10138	7540	7671	7831	8882
5010	GROVE	11672	10057	7333	7808	7587	8891
5011	VANTAGE	11723	10122	7814	8908	7772	9268
5013	PALATON	12208	10483	7271	8797	7498	9253
5014	REGALE	11549	9232	7105	7822	7414	8624
5015	3-425	11832	10404	7093	8717	6904	8990
5016	VENTURE	12001	10212	7671		7483	9342*

*Four station mean

ORCHARD GRASS VARIETIES

CURRENT STATUS OF VARIETIES - Jan. 15, 1986

<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. (4)	-
3064	K8-122	N.K.	Supported for lic. Def. (1)	-
3066	14011	Pickseed	Supported for lic. Def. (1)	-
3068	14-78-3	Pickseed		3
3069	Rancho	U.C.O		3
3065	OAC 84-117	U. of Guelph		3
3067	OAC 84-118	U. of Guelph		3

SUMMARY OF ORCHARDGRASS EARLY VARIETIES ELIGIBLE FOR
RECOMENDATION 1985 TOTAL YIELD KG/HA

1982 SEEDING

ENTRY	OTTAWA		GUELPH	
	1983	1984	1983	1984
HALLMARK (CHECK)	10744	10024	9459	9765
14011 (PICKSEED)	11345	10429	10690	10042

1983 SEEDING

	RIDGETOWN	KAPUSKASING		THUNDER BAY	OTTAWA
	1984	1984	1985	1984	1985
HALLMARK	11467	6812	4999	5995	6892
14011	11265	6650	4502	5335	6406

1984 SEEDING

	GUELPH	OTTAWA	NEW LISKEARD	12-STATION
	1985	1985	1985	MEAN
HALLMARK	15061	8946	6675	8903
14011	15682	8761	6611	8977

SUMMARY OF ORCHARDGRASS LATE VARIETIES ELIGIBLE FOR
RECOMENDATION 1985 TOTAL YIELD KG/HA

	1981 SEEDING		1982 SEEDING			
	OTTAWA 1982	THUNDERBAY 1982	OTTAWA 1983	OTTAWA 1984	GUELPH 1983	GUELPH 1984
<u>ENTRY</u>						
KAY (CHECK)	9670	6793	12296	10741	9630	9641
K8-122	8917	6478	12296	11497	10669	10079
1983 SEEDING						
	RIDGETOWN 1984	KAPUSKASING 1984	KAPUSKASING 1985	THUNDER BAY 1984	OTTAWA 1985	11- STATION MEAN
KAY	10665	5995	5210	5967	6709	8483
K8-122	12761	6751	5669	5856	6954	8812

OFCC ORCHARDGRASS TESTING 1985

Data for licensing trials were generated at Elora, Ottawa, New Liskeard and Kapuskasing.

Two cultivars are eligible for consideration: K8-122 (a late cultivar) and 14011 (an early cultivar). Summary data are included on the attached sheet.

K8-122: King Agro Inc., Chatham, Ontario.

The 11 station mean for this cultivar is 8812 kg/ha, compared to 8483 for the late check Kay. It is recommended that this cultivar be supported for licensing.

14011: Pickseed, Richmond Hill, Ontario.

The 12 station mean is 8977 kg/ha, compared to the early check Hallmark with 8903 kg/ha. It is recommended that this cultivar be supported for licensing.

R.W. Suitor
Co-ordinator
Orchardgrass Testing

OFCC ORCHARDGRASS TEST
1985 YIELD FROM 1983 SEEDING

EXPERIMENT 6091 KAPUSKASING, ONTARIO

CODE	NAME	CUT 1	CUT 2	CUT 3	KG/HA	MEAN
3064	K8-122	2141.	3528.	0.	5669.	2835
3003	KAY	2060	3150.	0.	5210.	2605
3027	HALLMARK	1439.	3559.	0.	4999.	2500
3053	ORION	1787.	3165.	0.	4951.	2476
3024	INA	1520.	3410.	0.	4930.	2465
3001	JUNO	1966.	2954.	0.	4920.	2460
3009	NAPIER	1606.	3158.	0.	4764.	2382
3046	SUMAS	1582.	3040.	0.	4623.	2312
3066	14011	1505.	2997.	0.	4502.	2251
LSD 5% (KG/HA)		417.	700.	0.	909.	
TOTAL MEAN (KG/HA)		1734.	3218.	0.	4952.	
CV=		13.9	12.6	0.0	10.6	

OFCC ORCHARDGRASS TEST
1985 YIELD FROM 1983 SEEDING

EXPERIMENT 4183 OTTAWA, ONTARIO

CODE	NAME	CUT 1	CUT 2	CUT 3	KG/HA	MEAN
3009	NAPIER	5938.	3262.	0.	9200.	4600
3001	JUNO	6125.	2723.	0.	8848.	4424
3027	HALLMARK	5810.	2975.	0.	8785.	4393
3024	INA	5427.	3230.	0.	8657.	4329
3046	SUMAS	5447.	3117.	0.	8564.	4282
3063	MLM 14011	5089.	3221.	0.	8310.	4155
3064	K8-122	5450.	2790.	0.	8239.	4120
3003	KAY	5164.	3043.	0.	8207.	4104
3053	ORION	5112.	2770.	0.	7882.	3941
LSD 5% (KG/HA)		604.	444.	0.	868.	
TOTAL MEAN (KG/HA)		5507.	3015.	0.	8521.	
CV=		7.5	10.1	0.0	7.0	

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

CODE	NAME	OTTAWA TOTAL YIELD	KAPUSKASING TOTAL YIELD	2 STATION MEAN
3009	NAPIER	9200	4764	6982
3001	JUNO	8848	4920	6884
3027	HALLMARK	8785	4999	6892
3024	INA	8657	4930	6794
3046	SUMAS	8564	4623	6594
3063	MLM 44011	8310	4502	6406
3064	K8-122	8239	5669	6954
3003	KAY	8207	5210	6709
3053	ORION	7882	4951	6417

OFCC ORCHARDGRASS TEST
1985 YIELD FROM 1984 SEEDING

EXPERIMENT 2859

GUELPH, ONTARIO

CODE	NAME	CUT 1	CUT 2	TOTAL
3001	JUNO	11741	4719	16460
3003	KAY	11982	5006	16988
3009	NAPIER	9978	4591	14569
3024	INA	11120	4932	16052
3027	HALLMARK	10486	4575	15061
3046	SUMAS	10813	4801	15614
3065	84-117	10889	5019	15907
3066	14011	11021	4660	15682
3067	84-118	10701	4249	14950
3068	14-78-3	11473	4743	16216
3069	RANCHO	10828	3809	14637
MEAN		11003	4646	15649
C.V.		5.4	13.0	5.8
L.S.D.		714.1	724.2	1081

OFCC ORCHARDGRASS TEST
1985 YIELD FROM 1984 SEEDING

EXPERIMENT 8303 NEW LISKEARD, ONTARIO

CODE	NAME	CUT 1	CUT 2	CUT 3	TOTAL KG/HA
3065	84-117	3666.	3659.	0.	7325.
3069	RANCHO	3688.	3537.	0.	7225.
3024	INA	3386.	3792.	0.	7178.
3001	JUNO	3329.	3778.	0.	7106.
3003	KAY	3279.	3827.	0.	7106.
3068	14-78-3	3548.	3314.	0.	6862.
3067	84-118	3145.	3625.	0.	6769.
3027	HALLMARK	3337.	3339.	0.	6675.
3009	NAPIER	3413.	3257.	0.	6671.
3066	14011	3111.	3501.	0.	6611.
3046	SUMAS (PX-36)	3336.	3250.	0.	6586.
LSD 5% (KG/HA)		506.	427.	0.	780.
TOTAL MEAN (KG/HA)		3385.	3534.	0.	6919.
CV=		10.4	8.4	0.0	7.8

OFCC ORCHARDGRASS TEST
1985 YIELD FROM 1984 SEEDING

EXPERIMENT 4184 OTTAWA, ONTARIO

CODE	NAME	CUT 1	CUT 2	CUT 3	TOTAL KG/HA
3001	JUND	6054.	3646.	0.	9701.
3046	SUMAS	6029.	3540.	0.	9569.
3024	INA	5482.	3979.	0.	9461.
3027	HALLMARK	5063.	3883.	0.	8946.
3066	14011	4896.	3865.	0.	8761.
3065	84-117	5107.	3633.	0.	8740.
3068	14-78-3	5288.	3434.	0.	8722.
3067	84-118	5334.	3292.	0.	8625.
3009	NAPIER	4958.	3504.	0.	8463.
3069	RANCHO	4783.	3544.	0.	8327.
3003	KAY	4432.	3547.	0.	7979.
LSD 5% (KG/HA)		966.	516.	0.	1004.
TOTAL MEAN (KG/HA)		5220.	3624.	0.	8845.
CV=		12.8	9.9	0.0	7.9

DFCC ORCHARDGRASS TEST
SUMMARY OF 1984 SEEDING
TOTAL YIELD (KG/HA)

CODE	NAME	ELORA	OTTAWA	NEW LISKEARD	3- STATION MEAN
3003	KAY	16988	7979	7106	10691
3001	JUND	16460	9701	7106	11089
3068	14-78-3	16216	8722	6862	10600
3024	INA	16052	9461	7178	10897
3065	84-117	15907	8740	7325	10657
3066	14011	15682	8761	6611	10351
3046	SUMAS	15614	9569	6586	10590
3027	HALLMARK	15061	8946	6675	10227
3067	84-118	14950	8625	6769	10115
3069	RANCHO	14637	8327	7225	10063
3009	NAPIER	14569	8463	6671	9901

KAPUSKASING 1985

EXPERIMENT 6091

1983 ORCHARDGRASS VARIETY TRIAL

<u>CULTIVARS</u>	<u>% WINTERKILL FOR WINTER 84-85</u>			
	<u>R-1</u>	<u>R-2</u>	<u>R-3</u>	<u>R-4</u>
HALLMARK	10	5	25	5
JUNO	10	10	0	0
INA	15	20	40	0
NAPIER	10	10	5	0
SUMAS	5	10	35	0
KAY	0	5	10	0
K8-122	15	5	50	10
ORION	25	15	0	5
14011	40	5	60	0

STAGE OF GROWTH AT FIRST CUT - JUNE 24

HALLMARK	FULLY HEADED
JUNO	EARLY HEADING
INA	HEADED
NAPIER	EARLY HEADING
SUMAS	HEADED
KAY	FULLY HEADED
K8-122	FULLY HEADED
ORION	FULLY HEADED
14011	EARLY HEADING

KAPUSKASING 1985

EXPERIMENT 6092

ORCHARDGRASS VARIETY TRIAL

% WINTERKILL FOR WINTER 84-85

<u>CULTIVARS</u>	<u>R-1</u>	<u>R-2</u>	<u>R-3</u>	<u>R-4</u>
SUMAS	45	35	65	20
RANCHO	30	10	95	10
14-78-3	50	35	30	20
SUNO	30	35	15	45
84-118	15	20	40	15
84-117	15	25	60	20
INA	25	85	45	30
NAPIER	20	65	95	20
HALLMARK	20	50	15	25
14011	25	35	60	20
KAY	20	15	40	10

THIS TRIAL WAS NOT HARVESTED.

TIMOTHY VARIETIES

CURRENT STATUS OF VARIETIES - Jan 15, 1986

Recommended in Publication 296

Toro	Itasca	Pronto
Basho	Timfor	Richmond
Champ	Climax	Salvo
Mariposa		

Unrecommended Varieties

<u>Code</u>	<u>Variety</u>	<u>Entered by</u>	<u>Official Status</u>	<u>Station Year</u> <u>of Data</u>
6075	Winmor (K216)	N.K.	Licenced, Def. (4)	-
6074	K215	N.K.	Supported for lic., Deferred (3)	-
6087	81006	Pickseed	No support '85, re-examine '86	
6086	BCSV0907	Bonis	Support for licence, Def. (1)	
	(Alexandra)			
6091	Tiller	Oseco		2
6090	Korpa	Oseco		2
6089	Ott PX2	Ottawa		2
6092	81005	Pickseed		2
6093	81009	Pickseed		2
6088	OHPX5	Ottawa		2
6094	Barliza	Oseco		
6095	WWT100	Oseco		
6096	Alma	Oseco		

Timothy Licencing Data - 1985

Southern Ontario	K216												BCSV0907 Alexander
	Winmore	WWT95	Bilbo	Pota	Hokuo	Mariposa	K215	Bodin	Mino	Bartimi	Lacombe-1	81006	
Station Years Total	8	9	10	10	10	11	8	8	8	8	4	3	5
1st production year	4	5	5	5	5	6	4	3	3	3	1	2	2
2nd production year	4	4	5	5	5	5	4	5	5	5	3	1	3
% of Checks Total	103	99	97	98	99	102	102	91	93	97	99	98	102
1st production year	108	97	97	98	96	102	100	95	92	96	100	101	101
2nd production year	99	100	98	98	102	102	103	88	93	97	99	92	102 ERR
<u>Northern Ontario</u>													
Station Years Total	1	2	2	2	2	3	1	4	4	4	2	3	3
1st production year	1	1	1	1	1	2	1	2	2	2	1	2	2
2nd production year	0	1	1	1	1	1	0	2	2	2	1	1	1
% of Checks Total	107	94	93	98	102	99	95	88	83	84	92	102	100
1st production year	107	94	95	100	105	97	95	92	79	86	105	103	100
2nd production year		95	92	96	100	103		84	87	83	82	98	99 ERR
% of Checks Provincial Avg	104	98	97	98	99	101	101	90	90	92	97	100	101
Checks: Climax and Timfor													

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Experiment 2847

83 Timothy Variety Trial

Guelph

Yield (kg/ha) 1985

Entry	Cut 1	Cut 2	Total
6002 Climax	6905	4450	11355
6040 Timfor	6327	5056	11384
6082 Mino	6508	4488	10997
6083 Bodin	5221	4074	9295
6084 Bartimi	7400	4041	11441
6085 Lacombe-1	6712	4820	11533
6086 BCSV0907	6958	5029	11987
LSD 5% (kg/ha)	NS	480	1367
Total mean (kg/ha)	6576	4566	11142
CV =	16.2%	8.6%	10.0%

Experiment 4283

83 OFCC Timothy Variety Trial

Ottawa

Entry	Cut 1	Cut 2	Total kg/ha
6002 Climax	7602	2812	10414
6086 BCSV0907	7781	2291	10073
6040 Timfor (N7-128)	7407	2379	9786
6084 Bartimi	7892	1688	9579
6087 81006	7708	1723	9431
6083 Bodin	7735	1239	8975
6082 Mino	7149	1797	8946
LSD 5% (kg/ha)	NS	747	NS
Total mean (kg/ha)	7611	1990	9601
CV =	7.3%	25.3%	8.5%

APC

Experiment 4284	84 OFCC Timothy Variety Trial		1985 Ottawa
Entry	Cut 1	Cut 2	Total kg/ha
6002 Climax	5773	2267	8040
6090 Timfor	5421	2598	8019
6087 81006	5753	2225	7978
6092 81005	5608	2265	7873
6091 Tiller	5465	2385	7850
6086 BCSV0907	5277	2517	7793
6081 Mariposa	5525	2234	7760
6093 81009	5978	1715	7694
6089 OTPX2	5596	2051	7647
6088 OHPX5	4646	1770	6416
6090 Korpa	4667	1480	6147
LSD 5% (kg/ha)	NS	633	996
Total mean (kg/ha)	5428	2137	7565
CV =	12.8%	20.5%	9.1%

Experiment 6102	83 Timothy Variety Trial		Kapuskasing
Yield (kg/ha) 1985			
Entry	Cut 1	Cut 2	Total
Timfor	3496	4399	7895
BCSV0907	3600	4094	7695
Climax	3700	3934	7634
81006	3686	3885	7572
Mino	2696	3586	6282
Bodin	3542	2702	6245
Bartimi	2775	3437	6212
LSD 5% (kg/ha)	512	452	800
Total mean (kg/ha)	3357	3720	7076
CV =	10.3%	8.2%	7.6%

APC

Experiment 7165

84 Timothy Variety Trial

Thunder Bay

Yield (kg/ha) 1985

	Entry	Cut 1	Cut 2	Total
6002	Climax	4958	2804	7762
6087	81006	4499	3196	7696
6093	81009	5100	2589	7689
6040	Timfor	4397	3251	7648
6091	Tiller	4444	3201	7645
6089	OHPX2	4895	2729	7624
6086	BCSV0907	4381	3236	7618
6092	81005	4508	2950	7457
6081	Mariposa	4101	3062	7163
6088	OHPX5	4240	2772	7012
6090	Korpa	4660	1542	6202
	LSD 5% (kg/ha)	477	433	687
	Total mean (kg/ha)	4562	2848	7411
	CV =	7.2%	10.5%	6.4%

6103 Kapusakasing - Timothy Performance - 1983 Seeding

Variety	Code	Stage of Growth on June 25, 1985
Climax	6001	late boot stage
Timfor	6040	early heading
Basho	6009	headed
Champ	6005	early heading
Itasca	6026	early heading
Pronto	6037	late boot
Richmond	6050	full heading
Salvo	6062	full heading
Toro	6030	headed

Experiment 6103

83 Timothy Performance Trial

Kapuskasing

Yield (kg/ha) 1985

Entry	Cut 1	Cut 2	Total
6005 Champ	4174	3277	7452
6009 Basho	3923	3212	7135
6050 Richmond	3830	3177	7007
6026 Itasca	3781	3177	6958
6040 Timfor	3846	3079	6925
6037 Pronto	3641	3280	6921
6062 Salvo	3622	3055	6676
6030 Toro	3692	2958	6649
6002 Climax	3299	3015	6314
LSD 5% (kg/ha)	NS	NS	NS
Total mean (kg/ha)	3756	3137	6893
CV =	9.1%	7.5%	6.7%

Experiment 2847

Guelph

Dates of Heading

<u>Entry</u>	<u>Date</u>			
	<u>June 10</u> (% headed)	<u>June 14</u> (% headed)	<u>June 18</u> (% headed)	<u>June 24</u> (% headed)
81006	15	25	30	100
BCSV0907	5	30	40	100
Timfor	3	10	35	90
Climax	1	8	10	90
Bodin	0	1	25	50
Mino	0	1	5	25
Bartimi	0	0	5	25

Experiment 2858

Guelph

Dates of Heading

<u>Entry</u>	<u>Date</u>			
	<u>June 10</u> (% headed)	<u>June 14</u> (% headed)	<u>June 18</u> (% headed)	<u>June 24</u> (% headed)
Salvo	100	100	100*	100*
Taro	70	100	100	100*
Richmond	70	90	100	100*
Basho	50	75	100	100*
Champ	10	20	45	100
Itasca	1	5	35	90
Timfor	0	1	25	90
Pronto	0	1	20	70
Climax	0	0	10	70

* At least 20% of heads in anthesis

MEADOW FOXTAIL VARIETIES

CURRENT STATUS OF VARIETIES - Jan. 15, 1986

<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		4
5502	82007	Pickseed		4
5503	82008	Pickseed		4
5504	G4549	OFCC		4
5505	Comp 82	OFCC		4
5507	G4554	OFCC		4
5508	G4550	OFCC		4
5509	G4555	OFCC		4
5510	G4552	OFCC		4
5511	G4553	OFCC		4
5512	G4551	OFCC		4
5513	Comp 81	OFCC		4

MEADOW FOXTAIL TESTING 1985

Data for licensing purposes were generated on 12 entries at 4 stations (Ottawa, Kapuskasing, Thunder Bay and New Liskeard. This is the first year that this species has been tested, so no entries are eligible for consideration.

The individual station data and summary sheets are attached, as well as a Mean-CV analysis for the Kapuskasing data which includes 4 cuts. Three cuts were taken at Ottawa, and two cuts at the other two stations.

A.R. McElroy
Co-ordinator
Meadow Foxtail Testing

OFCC MEADOW FOXTAIL TEST
SUMMARY OF 1984 SEEDING
TOTAL YIELD (KG/HA)

EXPERIMENT 6204 KAPUSKASING, ONTARIO

CODE	NAME	CUT 1	CUT 2	CUT 3	CUT 4	TOTAL KG/HA
5505	COMP82	3252.	2058.	2102.	1367.	8779.
5508	G4550	3507.	1598.	2281.	1373.	8759.
5511	G4553	3376.	2012.	1947.	1469.	8804.
5513	COMP81	3077.	2046.	2140.	1614.	8877.
5503	82008	3433.	1669.	2102.	1205.	8409.
5501	M3-8569 (DAM)	3265.	1988.	1899.	1260.	8412.
5507	G4554	2981.	1964.	2181.	1450.	8576.
5504	G4549	3156.	1879.	2006.	1309.	8350.
5512	G4551	3273.	1812.	1944.	1495.	8524.
5510	G4552	3276.	1655.	1947.	1134.	8012.
5509	G4555	2584.	1884.	1996.	1350.	7814.
5502	82007	2522.	1594.	2103.	1093.	7312.
LSD 5% (KG/HA)		649.	268.	325.		
TOTAL MEAN (KG/HA)		3142.	1847.	2054.		
CV=		14.3	10.1	11.0		

OFCC MEADOW FOXTAIL TEST
1985 YIELD FROM 1984 SEEDING

EXPERIMENT 8304 NEW LISKEARD, ONTARIO

CODE	NAME	CUT 1	CUT 2	CUT 3	TOTAL KG/HA
5506	4551	3631.	1879.	0.	5511.
5511	COMP81	3800.	1678.	0.	5478.
5501	DAN	3584.	1889.	0.	5473.
5502	82007	3523.	1909.	0.	5432.
5509	4554	3484.	1867.	0.	5351.
5512	COMP82	3723.	1623.	0.	5346.
5503	82008	3405.	1803.	0.	5208.
5507	4552	3318.	1853.	0.	5171.
5505	4550	3201.	1904.	0.	5105.
5504	4549	3310.	1696.	0.	5006.
5508	4553	3353.	1650.	0.	5003.
5510	4555	3270.	1514.	0.	4784.
LSD 5% (KG/HA):		550.	317.	0.	697.
TOTAL MEAN (KG/HA):		3467.	1772.	0.	5239.
CV:		11.0	12.4	0.0	9.2

OFCC MEADOW FOXTAIL TEST
1985 YIELD FROM 1984 SEEDING

EXPERIMENT 4584 OTTAWA, ONTARIO

CODE	NAME	CUT 1	CUT 2	CUT 3	TOTAL KG/HA
5501	DAN	2707	2863	1781	7351
5502	82007	2996	2953	1762	7711
5503	82008	3223	2808	1596	7627
5504	G4549	2764	2896	1914	7574
5505	COMP82	2927	3117	1751	7795
5507	G4554	2914	3029	1467	7410
5508	G4550	2334	2987	1472	6793
5509	G4555	2885	3157	1648	7690
5510	G4552	2482	3100	1553	7135
5511	G4553	2718	3128	1899	7745
5512	G4551	2940	2778	1625	7343
5513	COMP81	2830	2957	1483	7270
MEAN		2810	2981	1663	
C.V. (%)		12.2	7.5	18.1	

OFCC MEADOW FOXTAIL TEST
1985 YIELD FROM 1984 SEEDING

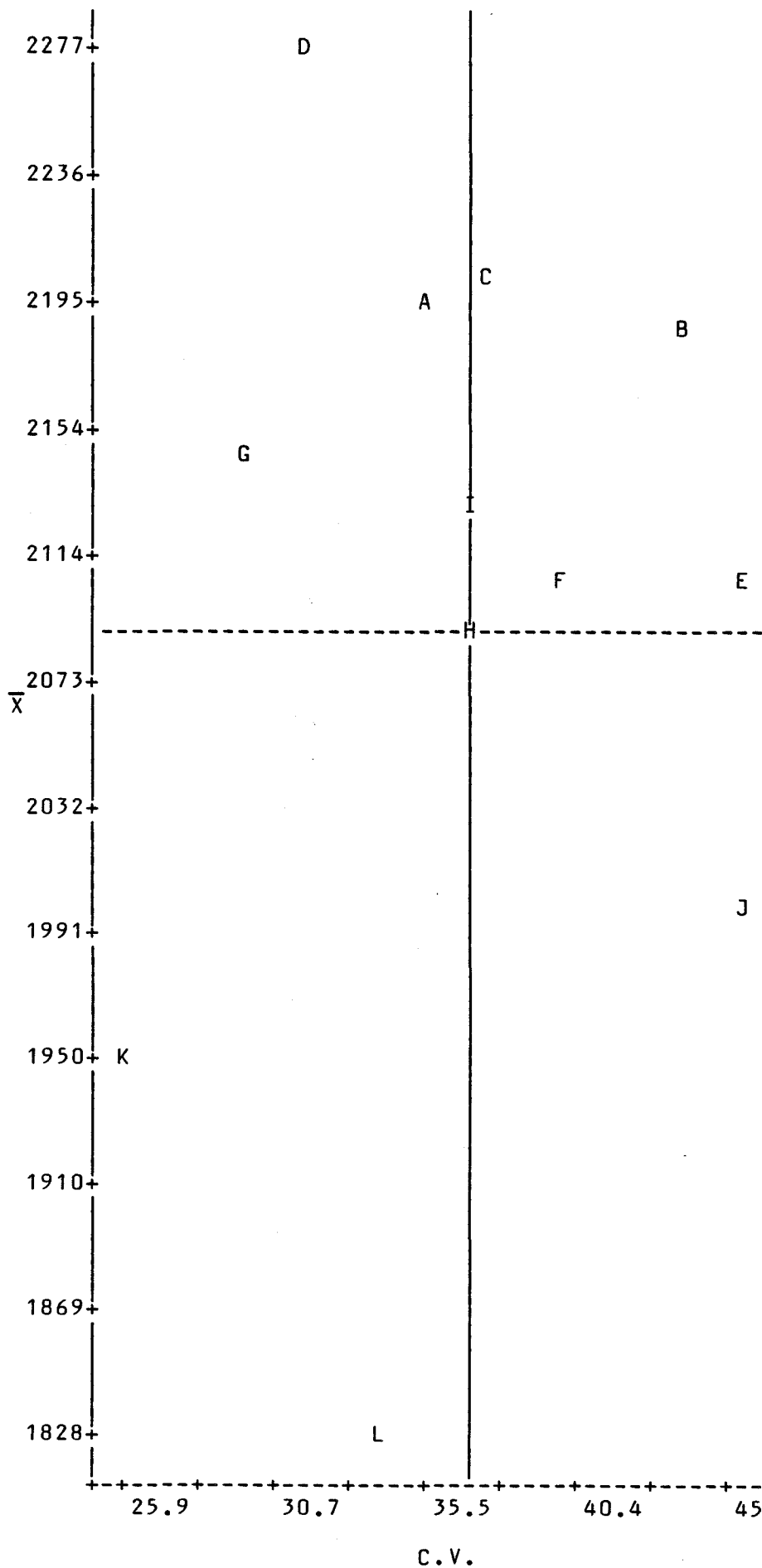
EXPERIMENT 7166 THUNDER BAY, ONTARIO

CODE	NAME	CUT 1	CUT 2	CUT 3	TOTAL KG/HA
5512	G4551	5957.	2728.	0.	8685.
5508	G4550	5353.	2877.	0.	8230.
5510	G4552	5490.	2635.	0.	8125.
5503	82008	5091.	2838.	0.	7929.
5513	COMP81	5154.	2766.	0.	7920.
5501	DAN	4891.	3001.	0.	7892.
5504	G4549	4641.	3073.	0.	7714.
5511	G4553	5208.	2502.	0.	7709.
5507	G4554	4642.	2931.	0.	7574.
5509	G4555	4828.	2734.	0.	7562.
5502	82007	4490.	3009.	0.	7499.
5505	COMP82	4418.	3061.	0.	7479.
LSD 5% (KG/HA)		1642.	442.	0.	1642.
TOTAL MEAN (KG/HA)		5013.	2846.	0.	7860.
CV=		22.7	10.8	0.0	14.5

OFCC MEADOW FOXTAIL TEST
SUMMARY OF 1984 SEEDING
TOTAL YIELD (KG/HA)

CODE	NAME	OTTAWA	KAP	THUNDER BAY	NEW LISKEARD	3- STATION
						MEAN
5501	DAN	7351	8412	7892	5473	7282
5502	82007	7711	7312	7492	5432	6989
5503	82008	7627	8409	7929	5208	7293
5504	G4549	7574	8350	7714	5006	7161
5505	COMP82	7795	8779	7479	5346	7350
5507	G4554	7410	8576	7574	5351	7228
5508	G4550	6793	8759	8230	5105	7222
5509	G4555	7690	7814	7562	4784	6963
5510	G4552	7135	8012	8125	5171	7111
5111	G4553	7745	8804	7709	5003	7315
5512	G4551	7343	8524	8685	5511	7516
5513	COMP81	7270	8877	7920	5478	7386

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OFCC MEADOW FOXTAIL KAPUSKASING 1985



POINT IDENTIFICATION

A:5505
B:5508
C:5511
D:5513
E:5503
F:5501
G:5507
H:5504
I:5512
J:5510
K:5509
L:5502

X-AXIS DIVISIONS =
.481686
Y-AXIS DIVISIONS =
8.15909

SMALLEST Y-VALUE = 1828
LARGEST Y-VALUE =
2276.75
SMALLEST X-VALUE =
25.9068
LARGEST X-VALUE =
45.6559