

Bowley
STEVE BOWLEY

ONTARIO FORAGE CROP INVESTIGATIONS



1982 REPORT ON FIELD TRIALS OF VARIETIES AND MIXTURES

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

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1982 REPORT ON FIELD TRIALS
OF VARIETIES AND MIXTURES

Kapuskasing	Kemptville
Thunder Bay	New Liskeard
Ridgetown	Guelph
Ottawa	

1982 REPORT ON FORAGE CROPS TRIALS

ONTARIO FORAGE CROP COMMITTEE

Conducted cooperatively by the various Ontario
Agricultural Experiment Stations of Agriculture
Canada, University of Guelph and Technical
Colleges of Agriculture in Ontario

Not for Publication: This is a progress report of
cooperative 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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1982 Report of Forage Crops Trials

Ontario Forage Crop Committee

compiled by

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INTRODUCTION

This is the 1982 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.

Ontario Forage Crop Committee

Variety Sub-Committee

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Mr. J. Madill Red and White Clover and Birds'-foot Trefoil Coordinator	Kemptville College of Agricultural Technology
Mr. R. Suitor Brome Grass and Reed Canary-Grass Coordinator	Ottawa Research Station
Mr. A. McElroy Orchardgrass Coordinator	Ottawa Research Station

Testing Locations

Name of Cooperators

Kapuskasing
Thunder Bay
Ridgetown
Kemptville
New Liskeard
Guelph
Ottawa

Dr. J. Proulx; Mr. L. Guillemette
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Early Alfalfa Varieties

CURRENT STATUS OF VARIETIES - Jan. 15, 1983

<u>Variety</u>	<u>Entered by</u>	<u>Official Status</u>	<u>Station Years of Data</u>
Anchor	O.F.C.C.	Recommended, Pub. 296	-
Angus	"	" "	-
Apollo	"	" "	-
Banner	"	" "	-
Ceres	"	" "	-
Citation	"	" "	-
Classic	"	" "	-
Pacer	"	" "	-
Primal	"	" "	-
Saranac	"	" "	-
Thor	"	" "	-
Vista	"	" "	-
130	"	" "	-
Trident	"	" "	-
Trumpetor	"	" "	-
Answer	"	" "	-
Regal	"	" "	-
532	"	" "	-
Hunter	"	" "	-
SQ Syn 2 (Apica)	"	Licensed, Deferred (3)	-
Peak	OSECO	Support for lic., Deferred (1)	-
76-105	U. of Guelph	Support for lic., Deferred (1)	-
LAB 75	Labonté	Not supported 1982, re-examine for bacterial wilt in 1983	8
Multileaf	O.F.C.C.	Not supported 1982, re-examine 1983	8
CW 940	Pickseed	Not supported 1982, re-examine for bacterial wilt in 1983	8
PS 79049	Pickseed	Not supported 1982, re-examine 1983	8
LSC-004E	Landis	" " " " "	8
LSC-008E	Landis	" " " " "	8

Early Alfalfa Varieties (cont'd.)

<u>Variety</u>	<u>Entered by</u>	<u>Official Status</u>					<u>Station Years of Data</u>
LSC-003E	Landis	Not supported 1982, re-examine 1983					8
78013	N.K.	"	"	"	"	"	8
WL 313	OSECO	"	"	"	"	"	8
77-101	U. of Guelph	"	"	"	"	"	8
75 T12	OSECO						3
Armor	OSECO						3
WL315	King & Speare						3
77-8CaB	King & Speare						3
Ca670-71	King & Speare						3
80334	King Grain						3
OT78-1	Ottawa						3
OT78-2	Ottawa						3
OT80-1	Ottawa						0
Hardy	Ottawa						0
SC 3704	Ottawa						0
UCO-10	U.C.O.						0
Exp. 8015	Dekalb						0
Gemini	Pickseed						0
79005	Pickseed						0
OSECO 79-9,5	OSECO						0
Cimarron	OSECO						0
LSC 214	Landis						0
LSC 215	Landis						0
Apollo II	OSECO						0
78T4	King Grain						0
OAC 80-105	U. of Guelph						0
VS25	Pickseed						0

A. EARLY ALFALFA. ENTRIES ELIGIBLE FOR CONSIDERATION IN 1982

Total Yield (kg/ha)

		WL 312	Epic	G7730	CW 27	CW 62	77-2	78-1	Saranac	Banner	Check Average
<u>1979 Seeding</u>											
Ridgetown	1980	14981	15183	15130	16177	15761	15188	14718	15263	15943	15603
	1981	13521	14399	13722	14015	13446	13245	13465	14727	15079	14903
Guelph	1980	13327	12124	12524	12588	12470	11645	13430	13154	13558	13356
	1981	11906	12306	11664	12010	11610	11093	12110	12049	12556	12302
Kemptville	1980	11883	11015	11207	10719	11621	10814	11502	11316	11484	11400
Thunder Bay	1980	4451	4628	4515	4055	4384	4555	5111	4735	4634	4684
<u>1980 Seeding</u>											
Ridgetown	1981	15470	15101	15270	14941	15649	14171	14343	15154	15640	15397
Guelph	1981	11141	11049	10484	11285	11602	10766	10979	11807	11339	11572
	1982	12694	12666	13032	12412	13540	12510	12689	12807	12910	12859
Ottawa	1981	13430	14494	13117	13985	13822	13523	12343	13448	14140	13794
New Liskeard	1982	11213	10918	11347	9730	10646	10608	11280	11636	11557	11597
<u>Mean</u>											
North		7832	7773	7931	6893	7515	7582	8196	8186	8096	8141
South		13150	13149	12906	13126	13280	12551	12842	13303	13628	13465
Province		12183	12171	12001	11992	12232	11647	11997	12372	12622	12497
Station year of data		11	11	11	11	11	11	11	11	11	11

B. EARLY ALFALFA. ENTRIES ELIGIBLE FOR CONSIDERATION IN 1982

		Total Yield (kg/ha)				
		Honeoye	Angus	Saranac	Banner	Check Average
<u>1974 Seeding</u>						
Guelph	1975	9231	8946	-	-	8946
	1976	12930	12411	-	-	12411
Ottawa	1975	11161	11539	-	-	11539
Thunder Bay	1975	6351	6065	-	-	6065
<u>1975 Seeding</u>						
Ridgetown	1976	13111	14032	-	-	14032
	1977	13853	14569	-	-	14569
Kapuskasing	1976	7605	7500	-	-	7500
	1977	6639	6578	-	-	6578
<u>1979 Seeding</u>						
Ridgetown	1980	15560	-	15263	15943	15603
	1981	14622	-	14727	15079	14903
Guelph	1980	12831	-	13154	13558	13356
	1981	12423	-	12049	12556	12303
Kemptville	1980	11692	-	11316	11484	11400
Thunder Bay	1980	5344	-	4735	4634	4685
<u>1980 Seeding</u>						
Ridgetown	1981	15227	-	15154	15640	15397
Guelph	1981	11725	-	11807	11339	11573
	1982	13001	-	12807	12910	12859
Ottawa	1981	12739	-	13448	14140	13794
New Liskeard	1982	11532	-	11636	11557	11597
Mean		?				
North		7494	6714	8186	8096	7285
South		12865	12299	13303	13628	13049
Province		11451	10205	12372	12622	11532
Station year of data		19	8	11	11	19

Guelph 13830 14169 ~~45392~~ 14000
 Kemptville 13626 13085 13356
 Kapuskasing 7390 6907 7149
 Lab 75 75512

C. EARLY ALFALFA. ENTRIES ELIGIBLE FOR CONSIDERATION IN 1983

		Total Yield (kg/ha)								
		Spectrum Lab 75	Multileaf	<u>Hubb</u> CW 940	79049	LSC 004-E	LSC 008-E	LSC 003-E	Saranac	Check Average
<u>1980 Seeding</u>										
Ridgetown	1981	15918	15008	15635	15532	15844	14918	15065	15154	15397
Guelph	1981	11042	10690	11565	11171	11222	10771	12134	11807	11573
	1982	13034	13552	12832	12958	13207	12139	13202	12807	12859
Ottawa	1981	12977	12159	14361	12380	12912	13637	13362	13448	13794
New Liskeard	1982	11467	11453	11050	12581	11429	11053	11829	11636	11597
<u>1981 Seeding</u>										
Guelph	1982	13830	13829	13780	13134	13535	13047	12559	13797	13965
Kemptonville	1982	13626	12227	12868	13381	12710	12724	12474	13295	12739
Kapuskasing	1982	7390	6182	7677	7529	7235	7231	7835	6387	6839
<u>Mean</u>										
North		9429	8818	9364	10055	9332	9142	9832	9012	9218
South		13405	12911	13507	13093	13238	12873	13133	13385	13388
Province		12411	11888	12471	12333	12262	11940	12308	12292	12345
Station year of data		8	8	8	8	8	8	8	8	8

↑
 19857

↑

D. EARLY ALFALFA. ENTRIES ELIGIBLE FOR CONSIDERATION IN 1983

		Total Yield (kg/ha)								
		78015	78013	WL 313	Peak	76-105	77-101	Saranac	Banner	Check Average
<u>1980 Seeding</u>										
Ridgetown	1981	15760	15427	15001	16185	15504✓	14434	15154	15640	15397
Guelph	1981	11638	10276	11716	11068	11369✓	11477	11807	11339	11573
	1982	12914	13259	13431	13255	13622✓	13488	12807	12910	12859
Ottawa	1981	13505	13177	12525	14532	13215✓	14495	13448	14140	13794
New Liskeard	1982	11005	11347	10982	11250	12517✓	11844	11636	11557	11597
<u>1981 Seeding</u>										
Guelph	1982	13478	13421	13188	12761	14255✓	13071	13797	14132	13965
Kemptville	1982	12247	12421	12370	13354	13570✓	12228	13295	12182	12739
Kapuskasing	1982	7011	6430	5995	8058	7588	7243	6387	7291	6839
Mean										
North		9008	8889	8489	9654	10053	9544	9012	9424	9218
South		13257	12997	13039	13526	13589	13199	13385	13391	13388
Province		12195	11970	11901	12558	12705	12285	12291	12399	12345
Station year										
of data		8	8	8	8	8	8	8	8	8

sup

sup.

Table 1 Alfalfa yield trial (Early). Experiment 2812
Guelph 1982 yield data. Seeded 1980

Entry	Dry matter yield (kg/ha) 1982			Total (kg/ha) 1982	Total (kg/ha) 1981	2 year mean
	Cut 1	Cut 2	Cut 3			
OAC 76-105	5987	4477	3158	13622	11369	12496
Multileaf	6129	4266	3157	13552	10690	12121
CW 62	6497	3988	3055	13540	11602	12571
OAC 77-101	6261	4131	3096	13488	11477	12483
WL 313	6054	4133	3244	13431	11716	12574
Classic	6463	3894	3018	13375	11688	12532
78013	5713	4330	3216	13259	10276	11768
Peak	5882	4276	3097	13255	11068	12162
532	5747	4425	3036	13208	11795	12502
LSC 004-E	5876	4136	3195	13207	11222	12215
LSC 003-E	5978	4086	3138	13202	12134	12668
Hi-Phy	5668	4195	3213	13076	11000	12038
Lab 75	5926	4007	3101	13034	11042	12038
G7730	6452	3695	2885	13032	10484	11758
Honeoye	6265	3924	2812	13001	11725	12363
79049	5757	4257	2944	12958	11171	12065
78015	5979	4008	2927	12914	11638	12276
Banner	5692	4163	3055	12910	11339	12125
CW 940	5615	4169	3048	12832	11565	12199
Primal	5673	4121	3023	12817	12570	12694
Saranac	5547	4268	2992	12807	11807	12307
WL 312	5368	4334	2992	12694	11141	11918
OAC 78-1	5370	4254	3065	12689	10979	11834
Epic	5620	4158	2888	12666	11049	11858
OAC 77-2	6352	3368	2790	12510	10766	11638
CW 27	6040	3622	2750	12412	11285	11849
LSC 008-E	6074	3330	2735	12139	10771	11455
LSD 5%:	675	506	265	963	-	-
Mean :	5925	4075	3023	13023	-	-
C.V. %:	6.94	7.56	5.35	4.51	-	-

Location: Elora Research Station

Plot size: 1.5m x 6.0m

Design: Randomized complete block

Soil type: Connestoga
silt loam

Seeding method: 10 row plot seeder

Replications: 4

Seeding date: May 7, 1980

Herbicide: none

Cuttings: 1981 1982
 C1-June 9 C1-June 14
 C2-July 9 C2-July 20
 C3-Aug. 17 C3-Aug. 24

Fertilizer: 350 kg/ha of
0-20-20,
Sept., 1981

Table 2 Alfalfa yield trial (Early). Experiment 2822
Guelph 1982 yield data. Seeded 1981

Entry	Dry matter yield (kg/ha) 1982			Total (kg/ha) 1982
	Cut 1	Cut 2	Cut 3	
Armor	7306	4600	2534	14440
OAC 76-105	6916	4601	2738	14255
75T12	7422	4345	2402	14169
77-8 CAB	6889	4637	2609	14135
✓ Banner	7147	4566	2419	-14132 B
130	6724	4614	2518	13856
Lab 75	6807	4513	2510	13830
Multileaf	7011	4553	2265	13829
✓ Saranac	6806	4485	2506	-13797 S
CW 940	6768	4534	2479	13781
80334	6672	4702	2356	13730
LSC 004-E	6741	4378	2416	13535
78015	6902	4240	2337	13479
78013	6291	4436	2694	13421
CA 670-71	6561	4285	2575	13421
OT 78-1	6349	4413	2596	13358
Citation	6867	4099	2342	13308
WL 313	6080	4503	2605	13188
79049	6593	4076	2465	13134
OAC 77-101	6218	4410	2443	13071
LSC 008-E	6492	4185	2369	13046
WL 315	6094	4532	2393	13019
OT 78-2	6397	4201	2320	12918
Peak	6500	4262	1999	12761
LSC 003-E	6158	4121	2280	12559
LSD 5%:	958	604	356	1340
Mean :	6668	4412	2447	13527
C.V. %:	10.21	9.72	10.35	7.04

Location: Elora Research Station Plot size: 1.5m X 6.0m

Design: Randomized complete block Soil type: Connestoga
silt loam

Seeding method: 10 row plot seeder Replications: 4

Seeding date: May 16, 1981

Cuttings: C₁ - June 28

C₂ - July 26

C₃ - August 24

Herbicide: none

Fertilizer: 350 kg/ha of
0-20-20,
September, 1981

Table 3 Alfalfa yield trial (Early). Experiment 3051
Kemptville 1982 yield data. Seeded 1981

Entry	Dry matter yield (kg/ha) 1982			Total (kg/ha) 1982
	Cut 1	Cut 2	Cut 3	
Lab 75	7083	3693	2851	13627
OAC 76-105	6696	4020	2854	13570
80334	6981	3798	2615	13394
79049	6903	3736	2742	13381
Peak	7036	3686	2632	13354
Saranac	7130	3655	2510	13295 S
Citation	7190	3520	2510	13220
Armor	7153	3434	2555	13142
75T12	6755	3566	2764	13085
130	6736	3483	2675	12894
CW 940	6727	3603	2538	12868
LSC 008-E	6716	3675	2333	12724
LSC 004-E	6888	3313	2509	12710
77-8 CAB	6386	3676	2591	12653
LSC 003-E	6663	3363	2448	12474
WL 315	6644	3366	2457	12467
CA 670-71	6520	3359	2558	12437
78013	6537	3434	2450	12421
WL 313	6520	3347	2503	12370
78015	6682	3229	2336	12247
OAC 77-101	6247	3400	2581	12228
Multileaf	6392	3333	2502	12227
OT 78-2	6260	3444	2487	12191
Banner	6316	3288	2578	12182 B
OT 78-1	6278	3289	2446	12013
LSD 5%:	605	423	284	1041
Mean :	6698	3508	2561	12767
C.V. %:	5.50	7.35	6.75	4.97

Location: Winchester Agronomy
Research Station

Plot size: 1.5m X 6.0m

Design: Randomized complete block

Soil type: North Gower
clay loam

Seeding method: 8 row plot seeder

Replications: 4

Seeding date: April 22, 1981

Cuttings: C₁ - June 9

C₂ - July 20

C₃ - August 27

Herbicide: none

Fertilizer: 300 pd/A of
0-25-25,
fall, 1981

Table 4 Alfalfa yield trial (Early). Experiment 6488
Kapuskasings 1982 yield data. Seeded 1981

Entry	Dry matter yield (kg/ha) 1982		Total (kg/ha) 1982
	Cut 1	Cut 2	
Peak	4115	3943	8058
Citation	4694	3143	7837
LSC 003-E	4452	3383	7835
CW 940	4254	3423	7677
OAC 76-105	4235	3353	7588
79049	4296	3233	7529
CA 670-71	4244	3163	7407
Lab 75	4037	3353	7390
Armor	4071	3263	7334
130	4331	2963	7294
Banner	4218	3073	7291 ^B
OAC 77-101	4581	2662	7243
LSC 004-E	4132	3103	7235
LSC 008-E	4088	3143	7231
80334	4114	2913	7027
78015	4149	2862	7011
75T12	3924	2983	6907
OT 78-1	3812	2902	6714
77-8 CAB	3881	2742	6623
OT 78-2	3795	2772	6567
78013	4088	2342	6430
Saranac	4175	2212	6387 ^S
Multileaf	3700	2482	6182
WL 315	3890	2282	6172
WL 313	3613	2382	5995
LSD 5%:	356	730	830
Mean :	4116	2963	7079
C.V. %:	6.15	17.51	8.33

Location: Kapuskasing Experimental Farm	Plot size: 1.5m x 6.0m
Design: Randomized complete block	Soil type: Imperfectly drained varved clay
Seeding method: 8 row plot seeder	Replications: 4
Seeding date: May 20, 1981	Cuttings: C1-June 25 C2-September 15
Herbicide: none	Fertilizer: 275 kg/ha of 0-30-15 fall, 1981

Table 5 Alfalfa yield trial (Early). Experiment 8002
New Liskeard 1982 yield data. Seeded 1980

Entry	Dry matter yield (kg/ha) 1982			Total (kg/ha) 1982
	Cut 1	Cut 2	Cut 3	
79049	6278	3745	2558	12581
OAC 76-105	6055	3838	2624	12517
K1-7	5933	3437	2525	11895
OAC 77-101	5863	3437	2544	11844
LSC 003-E	5771	3331	2727	11829
Saranac	5812	3451	2373	11636
Banner	5711	3370	2476	11557
Honeoye	5741	3438	2353	11532
532	5883	3250	2359	11492
Lab 75	5842	3237	2388	11467
Multileaf	5700	3477	2276	11453
LSC 004-E	5893	3250	2286	11429
Hi-Phy	5822	3237	2320	11379
78013	5781	3451	2115	11347
G7730	5822	3277	2248	11347
OAC 78-1	5741	3464	2075	11280
Peak	5771	3183	2296	11250
WL 312	5741	3237	2236	11214
LSC 008-E	5650	3290	2113	11053
CW 940	5538	3224	2288	11050
78015	5346	3170	2489	11005
WL 313	5660	3183	2139	10982
Epic	5528	3143	2247	10918
Classic	5589	3223	2015	10827
CW 62	5366	2996	2284	10646
OAC 77-2	5245	3130	2233	10608
CW 27	4931	2876	1923	9730
LSD 5%:	482	305	246	762
Mean :	5704	3309	2315	11328
C.V. %:	6.01	6.55	7.56	4.78

Location: New Liskeard College of
Agricultural Technology

Plot size: 1.5m X 6.0m

Design: Randomized complete block

Soil type: New Liskeard
clay

Seeding method: home-made
Cultipaker seeder

Replications: 4

Seeding date: May 22, 1980

Cuttings: C₁ - June 14

C₂ - August 4

C₃ - September 29

Herbicide: Embutox
(recommended rate)

Fertilizer: 100 kg/ha of
0-46-0,
May 1, 1982

Medium Alfalfa Varieties

CURRENT STATUS OF VARIETIES - Jan. 15, 1983

<u>Variety</u>	<u>Entered by</u>	<u>Official Status</u>					<u>Station Years of Data</u>
Algonquin	O.F.C.C.	Recommended, Pub. 296					-
120	"	"	"	"	"	"	-
Iroquois	"	"	"	"	"	"	-
Magnum	"	"	"	"	"	"	-
Pickstar	"	"	"	"	"	"	-
520	"	"	"	"	"	"	-
Titan	"	"	"	"	"	"	-
Valor	"	"	"	"	"	"	-
Vernal	"	"	"	"	"	"	-
WL 215	"	"	"	"	"	"	-
Weevlchek	"	"	"	"	"	"	-
524	"	"	"	"	"	"	-
Glory	"	"	"	"	"	"	-
OAC Minto	U. of Guelph	Supported for licence, Deferred (2)					-
Luz 84	Malon	Not supported 1982, re-examine 1983					10
MLM 02025	Pickseed	"	"	"	"	"	10
Lab 78	Labonté	"	"	"	"	"	10
Oneida	O.F.C.C.	"	"	"	"	"	10
CW 6306	Pickseed	"	"	"	"	"	10
PS 79051	Pickseed	"	"	"	"	"	10
CW 927	Pickseed	"	"	"	"	"	10
LSC 7801	Landis	"	"	"	"	"	10
LSC 006	Landis	"	"	"	"	"	10
LSC 007	Landis	"	"	"	"	"	10
79161	King Grain	"	"	"	"	"	10
76-102	U. of Guelph	"	"	"	"	"	10
526	Pioneer						5
NAPB 90 (Thunder)	OSECO						4
MLM 02042	Pickseed						4

Medium Alfalfa Varieties (cont'd.)

<u>Variety</u>	<u>Entered by</u>	<u>Official Status</u>	<u>Station Years of Data</u>
WL 221	King & Speare		4
Ca 838	King & Speare		4
77T1	King & Speare		4
80335	N.K.		4
79172	King Grain		4
Far-14	Ottawa		4
Comsel	Ottawa		0
SC Poly 2	Ottawa		0
79003	Pickseed		0
OSECO 79-12,5	OSECO		0
LSC 216	Landis		0
Ca 744	King Grain		0

A. MEDIUM ALFALFA. ENTRIES ELIGIBLE FOR CONSIDERATION IN 1982

		Total Yield (kg/ha)					
		ENTRIES				CHECK	
		Spredor II	76-1	CW 69	520	Iroquois	Average
<u>1979 Seeding</u>							
Ridgetown	1980	14504	15665	15867	15165	14608	14887
	1981	12082	14786	13686	15145	14182	14664
Guelph	1980	12673	13892	13195	14002	13674	13838
	1981	9931	11620	10679	11324	10931	11128
Kemptville	1980	11109	12177	11625	11487	12246	11867
Thunder Bay	1980	5592	6119	5877	5833	5680	5757
<u>1980 Seeding</u>							
Ridgetown	1981	13280	14442	15024	15159	-	15159
Guelph	1981	12364	12377	11696	12882	-	12882
	1982	10343	12222	12400	12509	-	12509
Ottawa	1981	12378	16205	16186	16250	-	16250
New Liskeard	1981	9736	10109	10170	10276	-	10276
	1982	11036	12608	11899	11979	-	11979
Kemptville	1982	6479	9501	8498	9830	-	9830
Mean			?				
North		8788	9612	9315	9363	5680	9337
South		11514	13289	12886	13375	13128	13301
Province		10885	12440	12062	12449	11887	12387
Station year of date		13	13	13	13	6	13

B. MEDIUM ALFALFA. ENTRIES ELIGIBLE FOR CONSIDERATION IN 1982

		Total Yield (kg/ha)								Check
		Luz 84	MLM 02025	Lab 78	Oneida	CW 6306	79-051	520	Iroquois	Average
<u>1980 Seeding</u>										
Ridgetown	1981	15686	14141	14821	15005	15273	15804	15159	-	15159
Guelph	1981	13112	12404	12881	11926	12944	13422	12882	-	12882
	1982	12568	11310	11616	12285	11160	12421	12509	-	12509
Ottawa	1981	13786	14628	14029	15278	15363	14759	16250	-	16250
New Liskeard	1981	11165	10617	9801	9952	10643	10841	10276	-	10276
	1982	12111	12855	11968	11813	12471	12246	11979	-	11979
Kemptville	1982	9127	8093	8830	9485	9408	9092	9831	-	9831
<u>1981 Seeding</u>										
Kemptville	1982	12441	12252	12227	11778	11752	12319	11547	12454	12001
Ottawa	1982	8449	8461	8801	7899	8217	7990	8921	7798	8360
Kapuskasing	1982	5556	5620	5834	5564	5872	5940	5482	6565	6024
Mean										
North		9611	9697	9201	9110	9662	9676	9246	6565	9426
South		12167	11613	11886	11951	12017	12258	12443	10126	12427
Province		11400	11038	11081	11099	11310	11483	11484	8939	11527
Station year of data		10	10	10	10	10	10	10	3	10

C. MEDIUM ALFALFA. ENTRIES ELIGIBLE FOR CONSIDERATION IN 1982

		Total Yield (kg/ha)								Check
		CW 927	LSC 7801	LSC 006	LSC 007	79161	76-102	520	Iroquois	Average
<u>1980 Seeding</u>										
Ridgetown	1981	15672	14826	14985	15347	15056	15496	15159	-	15159
Guelph	1981	12546	13115	11919	12258	12803	12217	12882	-	12882
	1982	12606	12092	11497	11773	12114	11760	12509	-	12509
Ottawa	1981	16748	14845	15079	14256	14671	13612	16250	-	16250
New Liskeard	1981	9813	10285	9976	10857	10738	10870	10276	-	10276
	1982	11466	11824	12068	11283	11983	12033	11979	-	11979
Kemptville	1982	8598	9128	7346	8197	7719	9336	9831	-	9831
<u>1981 Seeding</u>										
Kemptville	1982	11832	12199	11951	12469	11581	11625	11547	12454	12001
Ottawa	1982	7962	8231	7834	8336	8393	8587	8921	7798	8360
Kapuskasing	1982	6506	5303	5723	6087	5523	5837	5482	6565	6024
Mean										
North		9262	9137	9256	9409	9415	9580	9246	6565	9426
South		12281	12062	11516	11805	11762	11805	12443	10126	12427
Province		11375	11185	10838	11086	11058	11137	11484	8939	11527
Station year of data		10	10	10	10	10	10	10	3	10

Table 6 Alfalfa yield trial (Medium). Experiment 2814
Guelph 1982 yield data. Seeded 1980

Entry	Dry matter yield (kg/ha) 1982			Total (kg/ha) 1982	Total (kg/ha) 1981	2 year mean
	Cut 1	Cut 2	Cut 3			
CW 927	5799	3616	3191	12606	12546	12576
Luz 84	6024	3457	3087	12568	13112	12840
520	5606	3763	3140	12509	12882	12696
79-051	5694	3589	3138	12421	13422	12922
CW 69	5955	3453	2992	12400	11696	12048
Oneida	5654	3630	3001	12285	11926	12106
OAC 76-1	5328	3905	2989	12222	12377	12300
79161	5340	3740	3034	12114	12803	12459
MLM 02015	5615	3561	2927	12103	12374	12239
LSC 7801	5569	3748	2775	12092	13115	12604
LSC 007	5244	3634	2895	11773	12258	12016
OAC 76-102	5408	3506	2846	11760	12217	11989
Lab 78	5413	3562	2641	11616	12881	12249
Iroquois	5115	3436	3040	11591	12888	12240
LSC 006	5367	3302	2828	11497	11919	11708
MLM 02025	5720	2896	2694	11310	12404	11857
120	5220	3130	2923	11273	12614	11944
CW 6306	5427	3149	2584	11160	12944	12052
Spredor II	5469	2353	2521	10343	12364	11354
LSD 5%:	711	533	443	1101	1101	-
Mean :	5525	3444	2908	11877	12565	-
C.V. %:	9.10	10.94	10.77	6.56	6.20	-

Location: Elora Research Station

Plot size: 1.5m x 6.0m

Design: Randomized complete block

Soil type: Connestoga
silt loam

Seeding method: 10 row plot seeder

Replications: 4

Seeding date: May 7, 1980

Herbicide: none

Cuttings: 1981 1982
 C1-June 19 C1-June 18
 C2-July 15 C2-July 20
 C3-Aug. 24 C3-Aug. 24

Fertilizer: 350 kg/ha of
 0-20-20,
 Sept., 1981

Table 7 Alfalfa yield trial (Medium). Experiment 3042
Kemptville 1982 yield data. Seeded 1980

Entry	Dry matter yield (kg/ha) 1982			Total (kg/ha) 1982
	Cut 1	Cut 2	Cut 3	
520	3788	2890	3153	9831
OAC 76-1	3465	3052	2984	9501
Oneida	3674	2912	2899	9485
CW 6306	3692	2673	3043	9408
OAC 76-102	3680	2635	3021	9336
120	3563	2623	3061	9247
LSC 7801	3512	2682	2934	9128
Luz 84	3498	2708	2921	9127
79-051	3517	2673	2902	9092
Lab 78	3461	2542	2827	8830
MLM 02015	3213	2465	3079	8757
CW 927	3419	2453	2726	8598
CW 69	3389	2378	2731	8498
LSC 007	2965	2313	2919	8197
MLM 02025	3293	2246	2554	8093
Iroquois	3035	2201	2637	7873
79161	3306	2027	2386	7719
LSC 006	3077	1915	2354	7346
Spredor 11	2681	1610	2188	6479
LSD 5%:	458	396	318	854
Mean :	3380	2474	2806	8660
C.V. %:	9.58	11.33	8.02	6.97

Location: Kemptville College of
Agricultural Technology

Plot size: 1.5m X 6.0m

Design: Randomized complete block

Soil type: North Gower
clay loam

Seeding method: 8 row plot seeder

Replications: 4

Seeding date: May 8, 1980

Cuttings: C₁ - June 8

C₂ - July 14

C₃ - August 16

Herbicide: none

Fertilizer: 300 pd/A of
0-25-25,
fall, 1981

Table 8 Alfalfa yield trial (Medium). Experiment 3052
Kemptville 1982 yield data. Seeded 1981

Entry	Dry matter yield (kg/ha) 1982			Total (kg/ha) 1982
	Cut 1	Cut 2	Cut 3	
526	6551	3401	2684	12636
LSC 007	7019	2937	2513	12469
Iroquois	6259	3457	2738	12454-I
Luz 84	6378	3344	2719	12441
79-051	6450	3328	2541	12319
MLM 02025	6393	3169	2690	12252
Lab 78	6352	3197	2678	12227
LSC 7801	6300	3237	2662	12199
Far 1-14	6232	3194	2611	12037
MLM 02042	6536	2915	2504	11955
LSC 006	6273	3036	2642	11951
NAPB 90	6285	3029	2539	11853
CW 927	6162	3088	2582	11832
Oneida	6387	2975	2416	11778
CW 6306	6308	3009	2435	11752
80335	6190	3015	2493	11698
OAC 76-102	6206	2896	2523	11625
79172	6540	2761	2287	11588
79161	5937	3182	2462	11581
520	6431	2732	2384	11547-5
524	6024	2999	2524	11548
CA 838	6395	2634	2295	11324
WL 221	6190	2598	2338	11126
77T1	5952	2425	2264	10641
LSD 5%:	453	665	352	1207
Mean :	6323	3023	2522	11868
C.V. %:	5.10	15.64	9.91	7.22

Location: Winchester Agronomy
Research Station

Plot size: 1.5m X 6.0m .

Design: Randomized complete block

Soil type: North Gower
clay loam

Seeding method: 8 row plot seeder

Replications: 4

Seeding date: April 22, 1981

Cuttings: C₁ - June 9

C₂ - July 20

C₃ - August 27

Herbicide: none

Fertilizer: 300 pd/A of
0-25-25,
fall, 1981

Table 9 Alfalfa yield trial (Medium). Experiment 4007
Ottawa 1982 yield data. Seeded 1981

Entry	Dry matter yield (kg/ha) 1982			Total (kg/ha) 1982
	Cut 1	Cut 2	Cut 3	
NAPB 90	5375	2193	1389	8957
520	5525	2157	1239	8921
Lab 78	5387	2071	1343	8801
MLM 02042	5300	2120	1251	8671
OAC 76-102	5112	2132	1343	8587
Far 1-14	5100	2120	1331	8551
MLM 02025	4875	2255	1331	8461
80335	4663	2193	1595	8451
Luz 84	4975	1936	1538	8449
79161	4887	2083	1423	8393
LSC 007	5038	2059	1239	8336
524	5088	1948	1228	8264
CA 838	4750	2157	1331	8238
LSC 7801	4938	1985	1308	8231
CW 6306	4988	2059	1170	8217
79-051	4750	2047	1193	7990
CW 927	4738	1973	1251	7962
526	4825	2010	1090	7925
Oneida	4400	1973	1526	7899
LSC 006	4725	1973	1136	7834
Iroquois	4450	2120	1228	7798
77T1	4688	1887	1125	7700
WL 221	4250	1973	1389	7612
79172	5013	1728	803	7544
LSD 5%:	800	237	254	1055
Mean :	4910	2048	1283	8241
C.V. %:	11.57	8.22	14.05	9.10

Location: Ottawa Research Station

Plot size: 1.5m X 6.0m

Design: Randomized complete block

Soil type: North Gower
clay loam

Seeding method: 8 row plot seeder

Replications: 4

Seeding date: May 7, 1981

Cuttings: C₁ - June 13

C₂ - July 21

C₃ - August 23

Herbicide: Treflan

Fertilizer: 450 kg/A of
5-20-20,
October 30, 1981

Table 10 Alfalfa yield trial (Medium). Experiment 6466
Kapuskasig 1982 yield data. Seeded 1981

Entry	Dry matter yield (kg/ha) 1982		Total (kg/ha) 1982
	Cut 1	Cut 2	
Iroquois	3290	3275	6565 I
CW 927	3114	3392	6506
LSC 007	3176	2911	6087
MLM-02042	3123	2946	6069
NAPB 90	2903	3098	6001
79-051	3088	2852	5940
CA 838	3141	2793	5934
526	3493	2429	5922
CW 6306	3255	2617	5872
79172	2895	2945	5840
OAC 76-102	2974	2863	5837
Lab 78	3123	2711	5834
LSC 006	3000	2723	5723
MLM 02025	2921	2699	5620
Oneida	2947	2617	5564
Luz 84	3185	2371	5556
79161	3176	2347	5523
Far 1-14	2956	2558	5514
77T1	2798	2699	5497
520	3158	2324	5482 S
80335	3044	2359	5403
LSC 7801	2991	2312	5303
WL 221	3141	2018	5159
524	3053	1995	5048
LSD 5%:	378	749	684
Mean :	3081	2661	5742
C.V. %:	7.48	17.16	7.25

Location: Kapuskasing
Experimental Farm

Plot size: 1.5m X 6.0m

Design: Randomized complete block

Soil type: Imperfectly
drained varved
clay

Seeding method: 8 row plot seeder

Replications: 4

Seeding date: May 20, 1981

Cuttings: C₁ - June 25

C₂ - September 16

Herbicide: none

Fertilizer: 275 kg/ha of
0-30-15,
fall, 1981

Table 11 Alfalfa yield trial (Medium). Experiment 8003
New Liskeard 1982 yield data. Seeded 1980

Entry	Dry matter yield (kg/ha) 1982			Total (kg/ha) 1982	Total (kg/ha) 1981	2 year mean
	Cut 1	Cut 2	Cut 3			
MLM 02025	6507	3823	2525	12855	10617	11736
OAC 76-1	6100	4074	2434	12608	10109	11359
CW 6306	6091	3734	2646	12471	10643	11557
79-051	5968	3852	2426	12246	10841	11544
MLM 02015	5674	3823	2710	12207	10740	11474
Luz 84	5854	3793	2464	12111	11165	11638
120	5901	3660	2545	12106	10869	11488
LSC 006	5920	3734	2414	12068	9976	11022
OAC 76-102	5930	3660	2443	12033	10870	11452
79161	5778	3867	2338	11983	10738	11361
520	6034	3498	2447	11979	10276	11128
Lab 78	5920	3675	2373	11968	9801	10885
CW 69	5645	3705	2549	11899	10170	11035
LSC 7801	5930	3675	2219	11824	10285	11055
Oneida	5873	3572	2368	11813	9952	10883
CW 927	5646	3424	2396	11466	9813	10640
LSC 007	5731	3291	2261	11283	10857	11070
Spredor II	5863	3454	1719	11036	9736	10386
Iroquois	5248	3527	2254	11029	10537	10783

LSD 5%:	391	267	214	587	776	-
Mean :	5874	3676	2396	11946	10410	-
C.V. %:	4.71	5.13	6.31	3.48	5.27	-

Location: New Liskeard
College of
Agricultural Technology

Plot size: 1.5m x 6.0m

Soil type: New Liskeard
clay

Design: Randomized complete block

Replications: 4

Seeding method: home-made
Cultipaker seeder

Cuttings: C1-June 14
C2-August 4
C3-September 30

Seeding date: May 23, 1980

Herbicide: Embutox
(recommended rate)

Fertilizer: 100 kg/ha of
0-46-0,
May 1, 1982

Table 12 Alfalfa performance trial (Early). Experiment 2811
Guelph 1982 yield data. Seeded 1980

Entry	Dry matter yield (kg/ha) 1982			Total (kg/ha) 1982
	Cut 1	Cut 2	Cut 3	
Classic	6191	3922	2712	12825
Primal	5980	4117	2685	12782
Banner	5636	4185	2873	12694
Citation	5809	3928	2766	12503
Vista	5423	4311	2725	12459
Anchor	5653	4071	2703	12427
Apollo	5547	3983	2734	12264
Saranac	5460	3949	2837	12246
Thor	5814	3609	2768	12191
Ceres	5312	4037	2751	12100
Pacer	5429	3908	2480	11817
Angus	5831	3332	2609	11772
LSD 5%:	549	460	233	738
Mean :	5674	3946	2720	12340
C.V. %:	6.71	8.08	5.95	4.14

Location: Elora Research Station Plot size: 1.5m X 6.0m

Design: Randomized complete block Soil type: Connestoga
silt loam

Seeding method: 10 row plot seeder Replications: 4

Seeding date: May 7, 1980

Cuttings: C₁ - June 14

C₂ - July 14

C₃ - August 24

Herbicide: none

Fertilizer: 350 kg/ha of
0-20-20,
September, 1981

Table 13 Alfalfa performance trial (Early). Experiment 6487
Kapusking 1982 yield data. Seeded 1981

Entry	Dry matter yield (kg/ha) 1982		Total (kg/ha) 1982
	Cut 1	Cut 2	
Citation	4413	3835	8248
Thor	4288	3389	7677
Saranac	4238	3317	7555
Primal	4313	3172	7485
Trident	3857	3607	7464
Pacer	4013	3420	7433
Banner	3856	3379	7235
Vista	3982	3161	7143
Angus	4382	2757	7139
Anchor	4025	3078	7103
Answer	3781	3006	6787
Ceres	3731	2954	6685
Apollo	3750	2716	6466
Classic	3413	2923	6336
LSD 5%:	335	849	936
Mean :	4003	3194	7197
C.V. %:	5.87	18.60	9.10

Location: Kapuskasing Experimental Farm

Plot size: 15.m x 6.0m

Design: Randomized complete block

Soil type: Imperfectly drained
varved clay

Seeding method: 8 row plot seeder

Replications: 4

Seeding date: May 19, 1981

Cuttings: C1-June 24
C2-September 15

Herbicide: none

Fertilizer: 275 kg/ha of
0-30-15,
fall, 1981

Table 14 Alfalfa performance trial (Early). Experiment 8001
New Liskeard 1982 yield data. Seeded 1980

Entry	Dry matter yield (kg/ha) 1982			Total (kg/ha) 1982
	Cut 1	Cut 2	Cut 3	
Citation	6276	3456	2243	11975
Primal	5819	3558	2298	11675
Banner	5895	3310	2282	11487
Thor	5733	3354	2242	11329
Anchor	5838	3383	2070	11291
Angus	5942	3413	1854	11209
Saranac	5628	3456	2062	11146
Pacer	5533	3398	2156	11087
Vista	5552	3238	2236	11026
Apollo	5514	3106	2007	10627
Classic	5838	3019	1743	10600
Ceres	5133	3063	1911	10107
LSD 5%:	298	268	195	520
Mean :	5725	3313	2092	11130
C.V. %:	3.60	5.61	6.48	3.24

Location: New Liskeard College of
Agricultural Technology

Plot size: 1.5m X 6.0m

Design: Randomized complete block

Soil type: New Liskeard
clay

Seeding method: Home-made
Cultipaker seeder

Replications: 4

Seeding date: May 23, 1980

Cuttings: C₁ - June 17

C₂ - July 30

C₃ - September 30

Herbicide: Embutox
(recommended rate)

Fertilizer: 100 kg/ha of
0-46-0,
May 1, 1982

Table 15 Alfalfa performance trial (Medium). Experiment 2813
Guelph 1982 yield data. Seeded 1980

Entry	Dry matter yield (kg/ha) 1982			Total (kg/ha) 1982
	Cut 1	Cut 2	Cut 3	
120	5693	3477	2667	11837
520	5632	3645	2512	11789
Futura	5468	3469	2763	11700
Iroquois	5724	3214	2606	11544
Weevlchek	5395	3280	2630	11305
Pickstar	5540	3066	2691	11297
Magnum	5310	3289	2677	11276
WL 215	5212	3269	2680	11161
Valor	5330	3117	2500	10947
Vernal	5037	3125	2562	10724
Algonquin	5224	2650	2653	10527
Titan	4855	3041	2591	10487
LSD 5%:	663	517	278	680
Mean :	5368	3220	2628	11216
C.V. %:	8.57	11.13	7.32	4.20

Location: Elora Research Station Plot size: 1.5m X 6.0m

Design: Randomized complete block Soil type: Connestoga
silt loam

Seeding method: 10 row plot seeder Replications: 4

Seeding date: May 7, 1980

Cuttings: C₁ - June 18

C₂ - July 20

C₃ - August 24

Herbicide: none

Fertilizer: 350 kg/ha of
0-20-20,
September, 1981

Table 16 Alfalfa performance trial (Medium). Experiment 6465
Kapus kasing 1982 yield data. Seeded 1981

Entry	Dry matter yield (kg/ha) 1982		Total (kg/ha)
	Cut 1	Cut 2	1982
120	4265	3309	7574
Algonquin	4067	3259	7326
Valor	3244	3610	6854
524	3647	3189	6836
520	3948	2828	6776
Magnum	3679	3089	6768
Pickstar	3481	3259	6740
Titan	3850	2858	6708
Iroquois	3829	2828	6657
Weevlchek	3418	3229	6647
Futura	3442	2898	6340
Vernal	3133	3159	6292
WL 215	3212	2808	6020
LSD 5%:	314	843	754
Mean :	3632	3102	6734
C.V. %:	6.01	18.93	7.80

Location: Kapuskasing
Experimental Farm

Plot size: 1.5m X 6.0m

Design: Randomized complete block

Soil type: Imperfectly
drained varved
clay

Seeding method: 8 row plot seeder

Replications: 4

Seeding date: May 19, 1981

Cuttings: C₁ - June 25

C₂ - September 15

Herbicide: none

Fertilizer: 275 kg/ha of
0-30-15,
fall, 1981

Table 17

-30-
1982 Alfalfa Disease Trials
Forage Crops Section
Ottawa Research Station

Type	Entry	¹ Bacterial wilt DSI	² Phytophthora root rot DSI	³ Phytophthora root rot % resistant plants
Early	Lab 75	2.97	2.47	63.8
	Multileaf	2.76	*	*
	CW 940	3.02	2.45	61.4
	79049	2.71	*	*
	LSC 004-E	2.76	*	*
	LSC 008-E	2.82	*	*
	LSC 003-E	3.04	*	*
	78015	2.84	*	*
	78013	2.67	1.93	54.9
	WL 313	2.90	2.61	61.3
	Peak	2.81	2.13	73.1
	76-105	2.85	*	*
	77-101	2.93	*	*
	Vernal	2.94	-	-
	DuPuits	3.83	-	-
Checks	Ontario V.	3.34	-	-
	Saranac	-	3.07	44.3
	Agate	-	2.37	73.3
	Apollo	-	2.68	59.4 (59)
			2.7	
S.E.		0.14	0.30	10.1
C.V. %		15	24	32
Medium	Luz 84	2.76	*	*
	MLM 02025	2.55	*	*
	Lab 78	2.42	2.05	73.8
	Oneida	2.31	2.17	69.7
	CW 6306	2.74	*	*
	79051	2.71	*	*
	CW 927	2.76	2.28	72.8
	LSC 7801	2.75	*	*
	LSC 006	2.63	*	*
	LSC 007	2.59	*	*
	79161	2.54	*	*
	76-102	2.24	*	*
	Vernal	2.52	-	-
	DuPuits	3.68	-	-
	Ontario V.	3.12	-	-
Checks	Saranac	-	3.07	44.3
	Agate	-	2.37	73.3
	Apollo	-	2.68	59.4
S.E.		0.14	0.30	10.1
C.V. %		16	24	32

- 1 Average disease severity index (DSI) for bacterial wilt from scoring individual plants grown in the greenhouse in each of 10 replications (about 20 plants per pot)
- 2 Average disease severity index (DSI) for phytophthora root rot from scoring individual plants grown in the field in each of 4 replications (about 100 plants per entry).
- 3 Individual plants scored 1 or 2 were considered resistant. The % resistant plants per entry is the average of the % resistant plants of 4 replications.

* Resistance not claimed. No data on hand.

# entries	28	11	11
E x R. df	243	90	
t ₁₀	1.282	1.289	

Table 18 Alfalfa Disease Trials
Forage Crops Section
Ottawa Research Station

Type	Entry	1 Bacterial wilt DSI	2 Phytophthora root rot DSI	3 Phytophthora root rot % resistant
Early	WL 312	1.98	2.69	49.1
	Epic	2.07	2.13	77.5
	G7730	1.70	2.02	77.4
	CW 27	2.10	*	*
	CW 62	1.91	2.48	46.1
	77-2	1.79	*	*
	78-1	2.08	*	*
Medium	Spredor II	1.97	3.53	33.2
	76-1	1.58	*	*
	CW 69	2.12	2.51	64.2
Checks	Vernal	2.47	-	-
	Du Puits	3.11	-	-
	Saranac	-	3.07	44.3
	Agate	-	2.37	73.3
	Apollo	-	2.68	59.4
S.E.		0.24	0.30	10.1
C.V. %		25	24	32

12 (1.299)
110

9 (1.296)
90

1
Average disease severity index (DSI) for bacterial wilt from scoring individual plants grown in the greenhouse in each of 10 replications (about 20 plants per pot).

2
Average disease severity index (DSI) for phytophthora root rot from scoring individual plants grown in the field in each of 4 replications (about 100 plants per entry).

3
Individual plants scored 1 or 2 were considered resistant. The % resistant plants per entry is the average of the % resistant plants of 4 replications.

*

Resistance not claimed. No data on hand.

Bird's-foot Trefoil Varieties

CURRENT STATUS OF VARIETIES - Jan. 15, 1983

<u>Variety</u>	<u>Entered by</u>	<u>Official Status</u>	<u>Station Years of Data</u>
Empire	O.F.C.C.	Recommended, Pub. 296	-
Leo	O.F.C.C.	" "	-
Maitland	O.F.C.C.	" "	-
Viking	O.F.C.C.	" "	-
NC-83 (Norcen)	O.F.C.C.	Supported for licence, Deferred (2)	-
Kentucky Ecotype (Fergus)	O.F.C.C.	Not supported, re-examine 1983	7
RC3SP3	U. of Guelph		4
RC4SY2	U. of Guelph		4
RC3SY3	U. of Guelph		2
01004	Pickseed		2
PS79055	Pickseed		2

Red Clover Varieties

CURRENT STATUS OF VARIETIES - Jan. 15, 1983

<u>Variety</u>	<u>Entered by</u>	<u>Official Status</u>					<u>Station Years of Data</u>
Arlington	O.F.C.C.	Recommended, Pub. 296					-
Florex	O.F.C.C.	"	"				-
Lakeland	O.F.C.C.	"	"				-
Ottawa	O.F.C.C.	"	"				-
Prosper I	O.F.C.C.	"	"				-
Bytown	O.R.S.	Licenced, Deferred (Supported 1974)					-
Ruby	MLM (Dairyland)	Not supported 1982, re-examine 1983					9
7801	Landis	"	"	"	"	"	9
Pacific	Richardson	"	"	"	"	"	9
Kuhn	Landis						0
W116	King Grain						0
W115	N.K.						0
YKYC	N.K.						0

1982 RED CLOVER SUMMARY

Total Yields kg/ha

Code	Cultivar Name	Ridgetown # 1062 '79 Seeded '80 Harvested	Kapuskasing # 6559 '79 Seeded '80 Harvested	Kemptville # 3035 '79 Seeded '81 Harvested	Kemptville # 3041 '80 Seeded '81 Harvested	Elora # 2569 '80 Seeded '81 Harvested	Thunder Bay # 7139 '80 Seeded '81 Harvested	Elora * # 2569 '80 Seeded '82 Harvested	Kemptville # 3041 '80 Seeded '82 Harvested	Thunder Bay # 7139 '80 Seeded '82 Harvested	Mean Yield
4002	Lakeland	11451.73	5180.60	9292.68	9969.20	9535.17	5103.73	5861.38	10413.80	5399.45	8023.08
4003	Ottawa	12127.89	4327.17	7606.05	9169.71	8341.39	5182.89	5803.18	9393.87	4672.27	7402.71
4017	Florex	11075.25	5895.20	9921.84	10317.45	9597.67	5183.21	6146.53	10800.78	5657.06	8288.33
4023	Arlington	10999.11	5271.74	9047.66	9986.96	9461.14	5018.25	6474.03	10271.00	5303.99	7981.54
4027	Prosper I	11075.12	5588.11	9152.09	10024.25	9845.59	5178.37	6286.09	10629.44	4963.77	8082.54
4029	Tristan	11513.72	5169.84	8675.74	10504.15	9130.05	5338.41	6165.12	10190.12	5427.83	8012.78
4030	Redland II	11842.55	4760.17	8938.53	9477.66	8636.75	4988.12	5550.82	10612.61	5159.80	7774.11

* One cut only.

1982 RED CLOVER SUMMARY

Total Yields kg/ha

Cultivar Name	Kemptville # 3041	Elora # 2569	Thunder Bay # 7139	Elora * # 2569	Kemptville # 3041	Thunder Bay # 7139	Thunder Bay # 7151	Kapuskasing # 6561	Ottawa # 4008	Mean Yield
	'80 Seeded	'80 Seeded	'80 Seeded	'80 Seeded	'80 Seeded	'80 Seeded	'81 Seeded	'81 Seeded	'81 Seeded	
	'81 Harvested	'81 Harvested	'81 Harvested	'82 Harvested	'82 Harvested	'82 Harvested	'82 Harvested	'82 Harvested	'82 Harvested	
7801	10011.50	9694.07	4646.92	5951.33	10700.41	5224.08	6167.16	5361.09	6355.20	7123.53
Ruby	9946.44	9114.25	5306.79	6376.85	10455.02	5051.50	5908.62	5054.82	5923.32	7015.29
Pacific	8719.73	7102.75	4843.52	4777.86	8583.58	3294.34	6163.29	4732.74	4398.93	5846.30
Florex	10317.45	9597.67	5183.21	6146.53	10800.78	5657.06	6402.02	6456.50	6467.93	7447.68

* One Cut Only.

RED CLOVER 1982

DELETIONS DATA

Code	Cultivar	Elora # 2569 '80 Seeded '82 Harvested	Kemptville # 3041 '80 Seeded '82 Harvested	Thunder Bay # 7139 '80 Seeded '82 Harvested	Thunder Bay # 7151 '81 Seeded '82 Harvested	Kapuskasing # 6561 '81 Seeded '82 Harvested	Ottawa # 4008 '81 Seeded '82 Harvested	Mean Yield	Yield as % of check
4002	Lakeland	5861.38	10413.80	5399.45	6208.13	5251.91	6283.07	6569.62	94.0
4003	Ottawa	5803.18	9393.87	4672.27	5757.49	4914.86	5541.07	6013.79	86.1
4023	Arlington	6474.03	10271.00	5303.99	6162.60	4846.91	6077.73	6522.71	93.3
4027	Prosper I	6286.09	10629.44	4963.77	6260.93	5614.59	6352.95	6684.63	95.7
4017	Florex	6146.53	10800.78	5657.06	6402.02	6456.50	6467.93	6988.47	100.0

ELORA EXPT 2569 '80 RED CLOVER VARIETY TEST ONE CUT ONLY 1982

Code	Name	Cut 1	A: RCEL0280.82
4023	Arlington	6474.03	
4032	Ruby	6376.85	
4027	Prosper I	6286.09	
4029	Tristan	6165.12	
4017	K8-115 (Florex)	6146.53	
4031	7801	5951.33	
4002	Lakeland	5861.38	
4003	Ottawa	5803.18	
4030	Redland II	5550.82	
4033	Pacific	4777.86	
	LSD 5% (kg/ha):	689.83	
	Total Mean (kg/ha):	5939.30	
	CV =	8.00	

Design: Randomized Complete Block

Seeding Method: 5 row Plot Seeder

Herbicide: Eptam

Plot Size: 1.5m x 6.0m

Soil Type: Silt Loam

Replications: 4

Harvest Date: Cut 1 -

Fertilizer: 168 kg/ha 0-20-20 June, 1981
168 kg/ha 0-20-20 June, 1982

A-RCKEM80.82

KEMPTVILLE EXPT 3041 '80 RED CLOVER TRIAL 1982

Code	Name	Cut 1	Cut 2	Total kg/ha
4017	K8-115 (Florex)	6345.24	4455.54	10800.78
4031	7801	6091.75	4608.66	10700.41
4027	Prosper I	6207.47	4421.96	10629.44
4030	Redland II	6393.07	4219.54	10612.61
4032	Ruby	6242.13	4212.89	10455.02
4002	Lakeland	6088.20	4325.61	10413.80
4023	Arlington	6108.91	4162.10	10271.00
4029	Tristan	5942.07	4248.05	10190.12
4003	Ottawa	5623.39	3770.48	9393.87
4033	Pacific	5153.27	3430.31	8583.58
	LSD 5% (kg/ha):	480.59	516.30	821.11
	Total Mean (kg/ha):	6019.53	4185.50	10205.04
	CV =	5.50	8.50	5.55

Soil Type: North Gower Clay Loam

Previous Crop: Forages

Location: Range 8, Kemptville

Test Size: 60' x 80'

Plot Size: 1.5m x 6.0m

Seeding Rate: 10 lbs/ac

Fertilizer: Fall '80 0-25-25 @ 300 lbs/ac

Fall '81 0-25-25 @ 300 lbs/ac

Planting Date: May 8, 1980

Harvest Date: Cut 1 - June 14, 1982

Cut 2 - Aug. 10, 1982

Seeding Method: 8 row plot seeder

Herbicide: no herbicide in 1982

A⁵ KCTB80.82

THUNDER BAY EXPT 7139 '80 RED CLOVER VARIETY TEST 1982

Code	Name	Cut 1	Cut 2	Total kg/ha
4017	K8-115 (Florex)	3808.37	1848.69	5657.06
4029	Tristan	3393.24	2034.59	5427.83
4002	Lakeland	3375.19	2024.26	5399.45
4023	Arlington	3321.05	1982.95	5303.99
4031	7801	3230.80	1993.28	5224.08
4030	Redland II	3032.26	2127.54	5159.80
4032	Ruby	2923.96	2127.54	5051.50
4027	Prosper I	2887.87	2075.90	4963.77
4003	Ottawa	2689.32	1982.95	4672.27
4033	Pacific	2075.65	1218.68	3294.34
	LSD 5% (kg/ha):	634.15	234.80	581.19
	Total mean (kg/ha):	3073.76	1941.64	5015.39
	CV =	14.22	8.33	7.99

Soil Type: Sandy Loam

Experimental Design: Randomized block - 4 reps

Plot Size: 1.5m x 6.0m

Size Sample Harvested: .61m x 5.0m

Fertilizers:- 1980 35 kg/ha N - 80 kg/ha P - 80 kg/ha K

- applied spring and fall

- 1981 80 kg/ha P - 80 kg/ha K

- applied spring and fall

- 1982 8-16-16 @ 560 kg/ha spring '82

8-16-16 @ 280 kg/ha fall '82

Herbicides: - 1980 - applied Paraquat in spring prior to seeding.

1981 - no herbicides

Seeding Date: May 16, 1980

Harvest Date: Cut 1 - July 12, 1982

Cut 2 - Aug. 23, 1982

Previous Crop: Plow down cereal crop for green manure

Seeding Method: Broadcast by hand

Harvest Method: Plot forage harvester

A-RC081-82

OTTAWA EXPT 4008

'81 RED CLOVER TRIAL

1982.

Code	Name	Cut 1	Cut 2	Total kg/ha
4017	K8-115 (Florex)	5499.96	967.96	6467.93
4031	7801	5337.60	1017.60	6355.20
4027	Prosper I	5347.75	1005.20	5352.95
4002	Lakeland	5215.83	1067.25	6283.07
4023	Arlington	5246.27	831.46	6077.73
4032	Ruby	4992.59	930.74	5923.32
4003	Ottawa	4647.57	893.51	5541.07
4033	Pacific	3480.60	918.33	4398.93
	LSD 5% (kg/ha):	468.14	269.26	623.41
	Total Mean (kg/ha):	4971.00	954.00	5925.01
	CV =	6.40	19.19	7.15

Design: Randomized Complete BlockSeeding Method: 8 row plot seederPlanting Date: May 8, 1981Herbicide: Pre-plant incorporated, TreflanPlot Size: 1.5m x 6.0mSoil Type: North Gower Clay LoamReps: 4Harvest Date: Cut 1 - June 9, 1982

Cut 2 - July 21, 1982

Cut 3 - Aug. 23, 1982

Fertilizer: 450 kg/ha 5-20-20 in fall 1981

A=RC K81-82

KAPUSKASING EXPT 6562 '81 RED CLOVER VARIETY TRIAL 1982

Code	Name	Cut 1	Cut 2	Total kg/ha
4017	K8-115 (Florex)	3145.45	3311.05	6456.50
4027	Prosper I	2389.39	3225.20	5614.59
4031	7801	2374.83	2986.26	5361.09
4002	Lakeland	2061.68	3190.23	5251.91
4032	Ruby	1923.46	3131.37	5054.82
4003	Ottawa	2006.77	2908.09	4914.86
4023	Arlington	2042.61	2804.29	4846.90
4033	Pacific	1775.90	2956.83	4732.74
	LSD 5% (kg/ha):	330.43	482.21	682.59
	TOTAL MEAN (kg/ha):	2215.01	3064.15	5279.16
	CV =	10.14	10.70	8.79

Planted: May 20, 1981

Rows/plot: 8 rows per plot

Experimental Design: Randomized Complete Block - 4 reps

Plot Size: 1.5m x 6.0m

Size Sample Harvested: 24" x 17'

Fertilizer: 17 kg/ha of N at seeding

275 kg/ha 0-30-15 fall '81 and fall '82

Herbicides: 1982 - no herbicides

Harvest Date: Cut 1 - July 7, 1982

Cut 2 - Sept. 19, 1982

Previous Crop: Summer Fallow in 1980

A: KCTB 81.82

THUNDER BAY EXPT 7151 '81 RED CLOVER VARIETY TEST 1982.

Code	Name	Cut 1	Cut 2	Total kg/ha
4017	K8-115 (Florex)	3987.47	2414.55	6402.02
4027	Prosper I	3728.01	2532.92	6260.93
4002	Lakeland	3687.05	2521.08	6208.13
4031	7801	3646.08	2521.08	6167.16
4023	Arlington	3700.70	2461.90	6162.60
4033	Pacific	3673.39	2461.90	6135.29
4032	Ruby	3304.69	2603.93	5908.62
4003	Ottawa	3236.41	2521.08	5757.49
	LSD 5% (kg/ha):	700.44	173.16	685.24
	TOTAL MEAN (kg/ha):	3620.46	2504.80	6125.26
	CV =	13.15	4.70	7.61

Soil Type: Sandy Loam

Experimental Design: R.C.B. 4 reps

Plot Size: 1.5m x 6.0m

Size Sample Harvested: .6m x 5m

Fertilizers: 8-16-16 @ 560 kg/ha spring '82

8-16-16 @ 280 kg/ha fall '82

Seeding Date: May 27, 1981

Harvest Date: Cut 1 - July 12, 1982

Cut 2 - Aug. 24, 1982

Previous Crop: Plow down cereal crop for green manure

Seeding Method: Broadcast by hand

Harvest Method: Plot forage harvester

White Clover Varieties

CURRENT STATUS OF VARIETIES - Jan. 15, 1983

<u>Variety</u>	<u>Entered by</u>	<u>Official Status</u>	<u>Station Years of Data</u>
Sacramento	O.F.C.C.	Recommended, Pub. 296	-
Szarvasi	Pickseed	Support for licence, Deferred (1)	-
California Ladino	O.F.C.C.		0

Brome Grass Varieties

CURRENT STATUS OF VARIETIES - Jan. 15, 1983

<u>Variety</u>	<u>Entered by</u>	<u>Official Status</u>	<u>Station Years of Data</u>
Baylor	O.F.C.C.	Recommended, Pub. 296	-
Beacon	"	" "	-
Blair	"	" "	-
Saratoga	"	" "	-
Tempo	"	" "	-
Bromex	"	" "	-
13011	Pickseed	Supported for lic., Deferred (3)	-

Reed Canary-Grass

CURRENT STATUS OF VARIETIES - Jan. 15, 1983

<u>Variety</u>	<u>Entered by</u>	<u>Official Status</u>	<u>Station Years of Data</u>
Frontier	O.F.C.C.	Recommended, Pub. 296	-
Vantage	O.F.C.C.	Recommended, Pub. 296	-

Summary of Varieties for Consideration

1979 Seeding

Variety	Ridgetown	Kemptonville		Ottawa		Kapuskasing	
	1980	1980	1981	1980	1981	1980	1981
Frontier	12791	12169	9938	9117	10315	9025	5940
Castor	11690	10376	8990	8831	9550	7575	4139
Grove	11921	9094	8198	9426	11469	7173	4825

1980 Seeding

Variety	Ottawa		Guelph	New Liskeard	11 Station Years
	1981	1982	1982	1982	Mean
Frontier	12524	11129	13066	12098	10737
Castor	12271	10232	13556	10385	9781
Grove	11579	10226	13648	10820	9853

Summary of 1980 Seeding
Reed Canarygrass

Variety	Guelph 1982	Ottawa 1982	New Liskeard 1982	3 Station Mean
Vantage	14219	11467	11161	12282
Frontier	13066	11129	12098	12098
Rise	13699	10852	10838	11796
Grove	13648	10226	10820	11565
Castor	13556	10232	10385	11391

Ontario Reed Canarygrass Test
1982 yield from 1980 seeding

Experiment 2810 Guelph, Ontario

Variety	Cut 1	Cut 2	Cut 3	Total
Vantage	8738	3338	2143	14219
Rise	8656	3004	2039	13699
Grove	8015	3312	2321	13648
Castor	8038	3198	2320	13556
Frontier	8067	2828	2171	13066
Mean	8303	3136	2199	13637
LSD 5%	1409	465	233	1616
C.V.	11.01	9.62	6.88	7.69

LOCATION: Elora Research Station

PLOT SIZE: 1.5 x 6.0 m

DESIGN: Randomized block

SOIL TYPE: Connestoga Silt
Loam

SEEDING METHOD: 10 row
plot seeder

REPLICATIONS: 4

SEED DATE:

CUTTINGS: June 24, 1982
July 26, 1982
Sept. 1, 1982

HERBICIDE: Nil

FERTILIZER:

Fall 1981 340 kg/ha 5-20-20
Spring 1982 168 kg/ha 34% N.
After first cut 168 kg/ha 35% N.

Ontario Reed Canarygrass Test
1982 yield from 1980 seeding

Experiment 4805 Ottawa, Ontario

Variety	Cut 1	Cut 2	Total	81 Total	2 Year Mean
Vantage	7880	3587	11467	12824	12146
Frontier	7596	3533	11129	12524	11827
Rise	7891	2961	10852	12420	11623
Castor	7242	2990	10232	12271	11252
Grove	6859	3367	10226	11579	10903
Mean	7493	3288	10781		
LSD 5%	758	987	1207		
C.V.	6.58	19.48	7.27		

LOCATION: Ottawa Research Station

PLOT SIZE: 1.5 x 6.0 m

DESIGN: Randomized block

SOIL TYPE: Grenville Loam

SEEDING METHOD: Eight row
plot seeder

REPLICATIONS: 4

SEEDING DATE: May 12, 1980

CUTTINGS: June 15, 1982
Sept. 3, 1982

HERBICIDE: 2,4-D

FERTILIZER: Fall 1981 340 kg/ha 8-16-16
Spring 1982 100 kg/ha N.

Ontario Reed Canarygrass Test
1982 yield from 1980 seeding

Experiment 8304 New Liskeard, Ontario

Variety	Cut 1	Cut 2	Total
Frontier	8346	3752	12098
Vantage	7621	3540	11161
Rise	7882	2956	10838
Grove	7621	3199	10820
Castor	7689	2696	10385
Mean	7832	3229	11060
LSD 5%	810	777	1177
C.V.	6.71	15.61	6.90

LOCATION: New Liskeard

PLOT SIZE: 1.5 x 6.0 m

DESIGN: Randomized block

SOIL TYPE: New Liskeard Clay

SEEDING METHOD: 8 rows

REPLICATIONS: 4

SEEDING DATE: May 23, 1980

CUTTINGS: June 17, 1982
Aug. 29, 1982

HERBICIDE: Nil

FERTILIZER: Spring 1982 112 kg/ha N.
After first cut 56 kg/ha N.

Orchard Grass Varieties

CURRENT STATUS OF VARIETIES - Jan. 15, 1983

<u>Variety</u>	<u>Entered by</u>	<u>Official Status</u>					<u>Station Years of Data</u>
Hallmark	O.F.C.C.	Recommended, Pub. 296					-
Juno	"	"	"	"	"	"	-
Ina	"	"	"	"	"	"	-
Napier	"	"	"	"	"	"	-
Sumas	"	"	"	"	"	"	-
Kay	"	"	"	"	"	"	-
Orion	"	"	"	"	"	"	-
Hawk	OSECO	Supported for licence, Deferred (1)					-
Crown	NAPB (MLM)	Not supported 1982, re-examine 1983					9
14012	Pickseed	"	"	"	"	"	9
OK-WH-19	O.R.S.	"	"	"	"	"	9
OR-WH	O.R.S.	"	"	"	"	"	9
K8-122	King Grain						2
14011	Pickseed						0

Summary of Varieties

1979 Seeding

Variety	Ridgetown 1980	Ottawa 1981	2 Station Years Mean
Hallmark	11405	11014	11210
Hawk	11275	11799	11537
Crown	10747	10883	10815
MLM 14012	11316	11188	11252

1980 Seeding

Variety	Guelph		Kemptville 1981	Ottawa		5 Station Years Mean
	1981	1982		1981	1982	
Hallmark	11802	10406	8407	11528	10050	10439
Hawk	10545	11970	8248	11478	10279	10504
Crown	10107	9956	8046	10747	10094	9790
MLM 14012	9765	11350	8134	10748	10173	10034

1981 Seeding

Variety	Ottawa 1982	Thunder Bay 1982	2 Station Mean	9 Station Years Mean
Hallmark	7322	6292	6807	9803
Hawk	8789	5928	7359	10035
Crown	8609	6172	7391	9485
MLM 14012	7456	6478	6967	9623

Summary of Varieties Eligible for Consideration

1979 Seeding

Varieties	Ridgetown 1980	Ottawa 1981	2 Station Mean
Kay	10898	12795	11847
OK-WH-19	10376	12094	11235
OR-WH	10831	11216	11024

1980 Seeding

Varieties	Guelph 1981	1982	Kemptville 1981	Ottawa 1981	1982	5 Station Years Mean
Kay	9531	11344	7289	12991	10421	10315
OK-WH-19	9298	12124	7659	13355	9796	10446
OR-WH	11032	12167	7838	12640	10106	10757

1981 Seeding

Varieties	Ottawa 1982	Thunder Bay 1982	2 Station Mean	9 Station Years Mean
Kay	9670	6793	8232	10192
OK-WH-19	7552	6292	6922	9838
OR-WH	8696	6422	7559	10105

Summary of 1980 Seeding

Varieties	Guelph		Kemptville 1981 Total	Ottawa		Mean
	1981 Total	1982 Total		1981 Total	1982 Total	
OR-WH	11032	12167	7837	12640	10106	10756
OK-WH-19	9298	12124	7651	13354	9796	10445
Hawk	10545	11970	8248	11478	10279	10504
Sumas	9584	11438	8418	12629	9508	10315
MLM 14012	9765	11350	8134	10748	10173	10034
Kay	9531	11344	7288	12991	10421	10315
Ina	10307	10640	8181	10716	9605	9890
Napier	10975	10542	8141	11377	10311	10269
Hallmark	11802	10406	8407	11528	10050	10439
Juno	10679	10245	7816	11359	9802	9980
Crown	10107	9956	8046	10747	10094	9790

Summary of 1981 Seeding

Variety	Ottawa	Thunder Bay	Mean
	1982 Total	1982 Total	
Kay	9670	6793	8232
K8-122	8917	6478	7698
Hawk	8789	5928	7359
Sumas	8780	6306	7543
OR-WH	8697	6422	7560
Crown	8609	6172	7391
Napier	8434	5624	7029
Ina	8065	6304	7185
OK-WH-19	7552	6292	6922
MLM 14012	7456	6478	6967
Hallmark	7322	6292	6807
Juno	7322	5809	6566

Ontario Orchardgrass Test
1982 yield from 1980 seeding

Experiment 2815 Guelph, Ontario

Variety	Cut 1	Cut 2	Cut 3	Total	81 Total	2 Year Mean
OR-WH	7511	2776	1880	12167	11032	11597
OK-WH-19	6411	3248	2465	12124	9298	10711
Hawk	5546	3428	2996	11970	10545	11258
Sumas	5874	3320	2244	11438	9584	10511
MLM 14012	5599	3244	2507	11350	9765	10558
Kay	6290	2957	2097	11344	9531	10438
Ina	5346	2758	2536	10640	10307	10474
Napier	5358	2770	2414	10542	10975	10759
Hallmark	4820	3227	2359	10406	11802	11104
Juno	5005	2762	2478	10245	10679	10462
Crown	4997	2925	2034	9956	10107	10032
Mean	5705	3038	2364	11107	10329	
LSD 5%	491	878	609	1171	1983	
C.V.	5.95	20.01	17.83	7.30	13.29	

LOCATION: Elora Research Station

PLOT SIZE: 1.5 x 6.0 m

DESIGN: Randomized block

SOIL TYPE: Connestoga Silt Loam

SEEDING METHOD: 10 rows
plot seeder

REPLICATIONS: 4

SEEDING DATE: May 11, 1980

CUTTINGS: June 24, 1982
July 26, 1982
Sept. 1, 1982

HERBICIDE: Nil

FERTILIZER: Fall 1981 340 kg/ha 5-20-20
Spring 1982 168 kg/ha 34% N.
After first cut 168 kg/ha
35% N.

Ontario Orchardgrass Test
1982 yield from 1980 seeding

Experiment 4180 Ottawa, Ontario

Variety	Cut 1	Cut 2	82 Total	81 Total	2 Year Mean
Kay	6800	3621	10421	12991	11706
Napier	6803	3448	10311	11377	10844
Hawk	6460	3819	10279	11478	10879
MLM 14012	6315	3858	10173	10748	10461
OR-WH	6627	3479	10106	12640	11373
Crown	6021	4073	10094	10747	10421
Hallmark	6262	3789	10050	11528	10789
Juno	6323	3479	9802	11359	10581
OK-WH-19	6708	3088	9796	13354	11573
Ina	5832	3773	9605	10716	10161
Sumas	6117	3391	9508	12629	11069
Mean	6394	3620	10013	11779	
LSD 5%	938	534	1073	1511	
C.V.	10.16	10.19	7.42	8.88	

LOCATION: Ottawa Research Station

PLOT SIZE: 1.5 x 6.0 m

DESIGN: Randomized block

SOIL TYPE: Grenville Loam

SEEDING METHOD: Eight row
plot seeder

REPLICATIONS: 4

SEEDING DATE: May 12, 1980

CUTTING: June 15, 1982
Sept. 1, 1982

HERBICIDE: Spring 1982
2,4-D

FERTILIZER: Fall 1981 340 kg/ha of 8-16-16
Spring 1982 100 kg/ha N.

Ontario Orchardgrass Test
1982 yield from 1981 seeding

Experiment 4181 Ottawa, Ontario

Variety	Cut 1	Cut 2	Total
Kay	6821	2849	9670
K8-122	6677	2240	8917
Hawk	5494	3295	8789
Sumas	6000	2781	8780
OR-WH	6129	2568	8697
Crown	5583	3026	8609
Napier	5236	3199	8434
Ina	5200	2865	8065
OK-WH-19	5785	1767	7552
MLM 14012	4931	2526	7456
Hallmark	4579	2743	7322
Juno	5222	2100	7322
Mean	5638	2663	8301
LSD 5%	1260	827	1729
C.V.	15.50	21.53	14.44

LOCATION: Ottawa Research Station

PLOT SIZE: 1.5 x 6.0 m

DESIGN: Randomized block

SOIL TYPE: Grenville Loam

SEEDING METHOD: Eight row
plot seeder

REPLICATIONS: 4

SEEDING DATE: April 28, 1981

CUTTINGS: June 17, 1982
Aug. 31, 1982

HERBICIDE: Spring 1982
2,4-D

FERTILIZER: Fall 1981 340 kg/ha 8-16-16
Spring 1982 100 kg/ha N.

Ontario Orchardgrass Test
1982 yield from 1981 seeding

Experiment 7153 Thunder Bay, Ontario

Variety	kg/ha		Total
	Cut 1	Cut 2	
Kay	3040	3753	6793
K8-122	3012	3466	6478
MLM 14012	3012	3466	6478
OR-WH	3082	3340	6422
Sumas	2984	3322	6306
Ina	2928	3376	6304
OK-WH-19	2970	3322	6292
Hallmark	2844	3448	6292
Crown	2760	3412	6172
Hawk	2606	3322	5928
Juno	2774	3035	5809
Npaier	2535	3088	5624
Mean	2879	3363	6241
LSD 5%	383	536	792
C.V.	9.23	11.04	8.79

LOCATION: Thunder Bay Ontario

PLOT SIZE: 1.5 x 6 m

DESIGN: Randomized block

SOIL TYPE: Sandy Loam

SEEDING METHOD: Broadcast

REPLICATIONS: 4

SEEDING DATE: May 28, 1981

CUTTINGS: June 23, 1982
Aug. 24, 1982

HERBICIDE: Nil

FERTILIZER: Spring 1982 560 kg/ha
8-16-16

Timothy Varieties - November 1, 1982

In 1982, yield data were received from four performance trials:

Seeded 1980 - Ottawa
 - Kapuskasing

Seeded 1981 - Guelph
 - Thunder Bay

There were four licensing trials harvested in 1982:

Seeded 1980 - Ottawa

Seeded 1981 - Guelph
 Ottawa
 Kemptonville

Seven strains were not supported for licensing in 1981, and are to be re-examined in 1982. These are:

Mohawk	Rasant
Alpage	LCM8
Phlewiola	OC-HD-7
	OC-HD-10

These strains were included in the 1979 and 1980 seedings. In 1982, only one test had these entries - the 1980 Ottawa seeding (Exp. 4280).

Four strains were first seeded in 1980. There are 6 station-years of data available on these strains.

PS 79057	K215
Tiiti	K216

Timothy Varieties

CURRENT STATUS OF VARIETIES - Jan. 15, 1983

<u>Variety</u>	<u>Entered by</u>	<u>Official Status</u>	<u>Station Years of Data</u>
Toro	O.F.C.C.	Recommended, Pub. 296	-
Basho	"	" "	-
Champ	"	" "	-
Itasca	"	" "	-
Timfor	"	" "	-
Climax	"	" "	-
Pronto	"	" "	-
Richmond	"	" "	-
Salvo	"	" "	-
K216	King Grain	Supported for licence, Deferred (1)	-
PS 79057	Pickseed	Not supported 1982, re-examine 1983	6
K 215	N.K.	" " " " "	6
Tiiti	Labonté	" " " " "	6
WWT 95	OSECO		3
Bilbo	OSECO		3
Pota	OSECO		3
MLM 17018	Pickseed		3
Hokuo	Landis	Licenced, June 1, 1982	3
Bodin	OSECO		0
Mino	OSECO		0
Bartimi	OSECO		0

Yield (kg/ha) of Recommended Varieties
(1978-1982)

<u>Variety</u>	<u>Cut 1</u>	<u>Aftermath</u>	<u>Total</u>
Timfor	6350	2830	9180
Itasca	6400	2700	9100
Basho	6060	2940	9000
Toro	6160	2840	9000
Champ	6170	2690	8960
Richmond	5980	2950	8930
Climax	6390	2520	8910
Pronto	6260	2510	8770
Checks	6370	2680	9040

Cut 1 data based on 22 station years; aftermath and total,
20 station-years.

Timothy Performance Trials. Seeded 1980

<u>Entry</u>	<u>Yield kg/ha)</u>			
	<u>1981</u>		<u>1982</u>	
	<u>Cut 1¹⁾</u>	<u>Total²⁾</u>	<u>Cut 1¹⁾</u>	<u>Total¹⁾</u>
Richmond	4260	5880	6,130	10,040
Toro	4410	5460	6,290	9,920
Pronto	5430	5870	6,330	9,570
Itasca	4920	5940	6,250	9,540
Timfor	5040	5440	6,220	9,490
Basho	4580	5570	5,920	9,440
Champ	5240	6110	5,860	9,350
Climax	5300	5210	6,100	9,120
Checks	5170	5330	6,160	9,360
Mean	4900	5680	6,140	9,560
C.V.		10.0	7.1	6.1
Differences		N.S.	N.S.	N.S.

1) Data from Ottawa and Kapuskasing

2) Data from Kapuskasing only

Timothy Performance Trials. Seeded 1981¹⁾

<u>Entry</u>	<u>Yield (kg/ha)</u>	
	<u>Cut 1</u>	<u>Total</u>
Climax	7260	9950
Champ	6240	9790
Timfor	6490	9550
Itasca	6400	9340
Pronto	6540	9180
Basho	5910	9130
Richmond	5720	9030
Toro	5710	8850
Checks	6880	9750
Mean	6290	9350
C.V.	7.7	5.6
Differences	**	**

¹⁾Guelph & Thunder Bay

Yields of Entries Seeded in 1979 and 1980

Entry	Seeded 1979		Seeded 1980				Mean	
	Yield (1980-81 ¹⁾)		Yield - 1981 ²⁾		Yield - 1982 ³⁾		Cut 1	Total
	Cut 1	Total	Cut 1	Total	Cut 1	Total		
Mohawk	6270	9680	5060	5630	6570	9,870	6060	9250
Alpage	6340	9300	5140	4890	6980	9,700	6160	8850
Phlewiola	6170	9210	4560	5520	7020	9,940	5930	8800
Rasant	6270	9280	5080	5680	7200	9,820	6130	8940
LCM 8	6290	9310	5210	4970	7260	10,350	6170	8940
OG-HD-7	5940	9000	4590	4840	6640	9,800	5740	8630
OC-HD-10	6240	9690	5000	5720	6980	10,150	6070	9300
Checks	6700	9840	5280	5410	7340	10,320	6480	9400

1) Mean of 4 stations in 1980 and 3 stations in 1981.

2) Mean of 2 stations for Cut 1 and one station for total yield.

3) Mean of one station.

Yield (kg/ha) of Four Entries, Seeded 1980 and 1981

Entry	Seeded - 1980				Seeded 1981		Mean	
	1981		1982		1982		Cut 1	Total
	Cut 1 ¹⁾	Total ²⁾	Cut 1 ²⁾	Total ²⁾	Cut 1 ³⁾	Total ¹⁾		
K215	5330	5120	7870	10,560	7560	10,920	6870	9380
K216	5480	5820	6840	9,600	8530	11,820	7230	9770
PS 79057	4620	4940	6960	9,930	7490	10,830	6450	9130
Tiiti	4890	4240	7210	9,680	7120	10,110	6340	8540
Checks	5280	5410	7340	10,320	7650	11,280	6810	9570

1) 2 locations

2) 1 location

3) 3 locations

Timothy Strains - Seeded 1979

Yields (kg/ha)

Entry	1980 ¹⁾			1981 ²⁾			1980-'81		
	Cut 1	Cut 2	Total	Cut 1	Cut 2	Total	Cut 1	Cut 2	Total
Timfor	6500	3850	10,350	6690	2680	9370	6580	3350	9930
Climax	6800	3440	10,240	6840	2290	9130	6820	2940	9760
Champ	6400	4010	10,410	6240	2640	8880	6330	3420	9750
Basho	6610	3880	10,490	5960	2780	8740	6330	3410	9740
OC-HD-10	6400	4040	10,440	6020	2670	8690	6240	3450	9690
Mohawk	6370	3910	10,280	6140	2740	8880	6270	3410	9680
Itasca	6680	3470	10,150	6290	2570	8860	6510	3090	9600
Pronto	6630	3760	10,390	6140	2290	8430	6420	3130	9550
LFS-23	6780	3550	10,330	6370	2030	8400	6600	2900	9500
Toro	6340	3870	10,210	5770	2760	8530	6100	3390	9490
Salvo	6340	3790	10,130	5430	2850	8280	5950	3390	9340
LCM-8	6300	3470	9,770	6270	2420	8690	6290	3020	9310
Alpage	6500	3440	9,940	6260	2190	8450	6340	2960	9300
Rasant	6670	3440	10,110	5740	2440	8180	6270	3010	9280
LFY-10	6370	3370	9,740	6490	2090	8580	6420	2820	9240
LSS-9	6530	3380	9,910	6060	2270	8330	6330	2900	9230
Phlewiola	6390	3420	9,810	5880	2530	8410	6170	3040	9210
OG-HD-7	6110	3540	9,650	5720	2410	8130	5940	3060	9000
Check Mean	6650	3650	10,300	6760	2480	9250	6700	3140	9840

1) Mean of 4 stations - Elora, Kemptville, Ottawa, Kapuskasing.

2) Mean of 3 stations - Elora, Ottawa, Kapuskasing.

80 PROV. TIMOTHY LICENSING TRIAL

Yield (Kg/ha) - 1982

Code	Name	1982 (Ottawa)			1981	
		Cut 1	Cut 2	Total	Cut 1	Total
6040	Timfor	7640	3050	10,690	5370	5370
6074	K 215	7870	2690	10,560	5330	5120
6072	LCM-8	7260	3100	10,350	5210	4970
6070	OG-HD-10	6980	3170	10,150	5000	5720
6002	Climax	7030	2020	9950	5180	5460
6068	Phlewiola	7020	2929	9940	4560	5520
6076	79-057	6960	2970	9930	4620	4940
6066	Mohawk	6570	3290	9870	5060	5630
6069	Rasant	7200	2620	9820	5080	5680
6073	OG-HD-7	6640	3160	9800	4590	4840
6067	Alpage	6980	2730	9700	5140	4890
6078	Tiiti	7210	2470	9680	4890	4240
6075	K 216	6840	2760	9600	5480	5820

LSD 5% (Kg/ha):	N.S.	490	N.S.		N.S.
Mean (Kg/ha):	7090	2910	10,000	5040	5240
CV =	7.99	11.66	6.20		14.4

Checks	7340	2540	10,320	5280	5410
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Timothy Licensing Trials - Seeded 1981

<u>Entry</u>	<u>Yield 1982</u>	
	<u>Cut 1¹⁾</u>	<u>Total²⁾</u>
K216	8530	11,820
Timfor	7730	11,600
Richmond	7350	11,250
MLM 17018	7340	11,050
Climax	7570	10,960
K215	7560	10,920
Pota	7310	10,850
79-057	7490	10,830
Hokus	7000	10,620
WWT 95	7250	10,390
Bilbo	7050	10,370
Salvo	6730	10,220
Tiiti	7120	10,110
Checks	7650	11,280
Mean	7390	10,850
C.V.	12.7	10.5
Differences	*	N.S.

1) Three locations: Guelph, Kemptville, Ottawa

2) Two locations: Guelph, Ottawa

EXPT. 4380

80 TIMOTHY PERFORMANCE TRIAL

OTTAWA

Yield (Kg/ha) - 1982

<u>Code</u>	<u>Name</u>	<u>Cut 1</u>	<u>Cut 2</u>	<u>Total</u>
6050	Richmond	7160	4040	11,200
6030	Toro	7500	3660	11,160
6009	Basho	7050	3600	10,650
6026	Itasca	7360	3230	10,590
6040	Timfor	7260	3320	10,580
6037	Pronto	7450	3070	10,520
6002	Climax	7130	3130	10,260
6005	Champ	6750	3320	10,070
LSD 5% (Kg/ha):		N.S.	490	N.S.
Total Mean (Kg/ha):		7200	3420	10,630
CV =		6.76	9.69	5.93

EXPT. 6044

80 TIMOTHY PERFORMANCE TEST

KAPUSKASING

Yield (Kg/ha) - 1982

<u>Code</u>	<u>Name</u>	<u>Cut 1</u>	<u>Cut 2</u>	<u>Total</u>
6050	Richmond	4760	3730	8490
6005	Champ	4680	3720	8400
6037	N7-125 (Pronto)	4840	3469	7399
6030	L-84 (Toro)	4670	3600	8270
6026	Itasca	4780	3360	8140
6040	Timfor (N7-128)	4830	3210	8040
6009	S3-9 (Basho Or)	4420	3410	7830
6002	Climax	4720	2880	7600
LSD 5% (Kg/ha):		N.S.	N.S.	N.S.
Total Mean (Kg/ha):		4710	3420	8130
CV =		6.99	10.34	6.16

FXPT. 7152

81 TIMOTHY PERFORMANCE TPST

THUNDER BAY

Yield (Kg/ha) - 1982

<u>Code</u>	<u>Name</u>	<u>Cut 1</u>	<u>Cut 2</u>	<u>Total</u>
6005	Champ	4870	3649	8520
6002	Climax	5470	2890	8360
6040	Timfor	5130	2970	8100
6026	Itasca	4940	2850	7790
6009	Basho	4430	3280	7710
6037	Pronto	5000	2640	7650
6050	Richmond	4340	3120	7460
6030	Toro	3810	3140	6950
	LSD 5% (Kg/ha):	420	440	630
	Total Mean (Kg/ha):	4750	3070	7820
	CV =	6.06	9.74	5.49

EXPT. 2820

81 PROV. TIMOTHY PERFORMANCE TEST

GUELPH

Yield (Kg/ha) - 1982

<u>Code</u>	<u>Name</u>	<u>Cut 1</u>	<u>Cut 2</u>	<u>Total</u>
6040	Timfor	8308	3110	14,460
6002	Climax	9640	2360	14,290
6026	Itasca	8360	3060	14,060
6005	Champ	8060	3310	13,770
6037	Pronto	8600	2520	13,670
6050	Richmond	7560	3401	13,450
6030	Toro	8250	3110	13,020
6009	Basho	7880	3110	12,720
	LSD 5% (Kg/ha)	N.S.	380	N.S.
	Total Mean (Kg/ha)	8330	3000	13,680
	CV =	8.17	8.63	7.60

ELORA

APC

EXPT. 2821

81 PROV. TIMOTHY LICENSING TRIAL

Yield (Kg/ha) - 1982

<u>Code</u>	<u>Name</u>	<u>Cut 1</u>	<u>Cut 2</u>	<u>Total</u>
6075	K 216	9800	2390	12,180
6040	Timfor	8610	3440	12,050
6002	Climax	9202	2650	11,850
6081	MLM 17018	8010	3600	11,620
6074	K 215	8590	2840	11,430
6050	Richmond	8210	3190	11,400
6080	Potamond	7890	3100	10,990
6079	Bilbo	7860	3010	10,870
6061	Hokus	7220	3640	10,850
6078	Tiiti	7970	2730	10,700
6071	WWT 95	7940	2430	10,360
6062	Salvo	7070	3160	10,220
6076	79-057	6910	3000	9,900
	LSD 5% (Kg/ha):	1510	550	1,500
	Total Mean (Kg/ha):	8100	3010	11,110
	CV =	13.01	12.70	9.40

EXPT. 4281

81 PROV. TIMOTHY VARIETY TEST

OTTAWA

Yield (Kg/ha) - 1982

<u>Code</u>	<u>Name</u>	<u>Cut 1</u>	<u>Cut 2</u>	<u>Total</u>
6075	K 216	7590	4320	11,910
6050	Richmond	6810	4270	11,090
6081	MLM 17018	6800	4180	10,980
6080	Pota	6980	3740	10,820
6040	Timfor	6880	3820	10,700
6076	79-057	7020	3610	10,630
6074	K 215	6760	3660	10,420
6071	WWT 95	6850	3570	10,420
6061	Hokus	6410	3970	10,380
6062	Salvo	6490	3730	10,220
6002	Climax	6560	3510	10,070
6079	Bilbo	6340	3530	9,860
6078	Tiiti	6340	3190	9,530

LSD 5% (Kg/ha):	N.S.	N.S.	1,190
Total Mean (Kg/ha):	6760	3780	10,530
CV =	10.19	12.76	7.85

EXPT. 3055

81 TIMOTHY VARIETY TRIAL

KEMPTVILLE

Yield Kg/ha) - 1982

<u>Code</u>	<u>Name</u>	<u>Cut 1</u>
6075	K 216	8200
6076	79-057	7390
6061	Hokus	7370
6074	K 215	7320
6040	Timfor	7250
6081	MLM 17018	7210
6080	Pota	7080
6078	Tiiti	7050
6050	Richmond	7030
6071	WWT 95	6960
6002	Climax	6950
6079	Bilbo	6940
6062	Salvo	6620

LSD 5% (Kg/ha):	N.S.
Total Mean (Kg/ha):	7180
CV =	9.18