

Bowley

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ONTARIO FORAGE CROP INVESTIGATIONS



1983 REPORT ON FIELD TRIALS OF VARIETIES AND MIXTURES

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

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OF VARIETIES AND MIXTURES

Kapuskasing
Thunder Bay
Ridgetown

Ottawa

Kemptville
New Liskeard
Guelph

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1983 REPORT ON FORAGE CROPS TRIALS

ONTARIO FORAGE CROP COMMITTEE

Conducted cooperatively by the O.M.A.F. Colleges of Agricultural Technology; the Crop Science Dept. O.A.C., University of Guelph; and the Agricultural Experimental Stations of Agriculture Canada in Ontario

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Not for Publication: This is a progress report of cooperative investigations containing data, the interpretation of which may be modified with additional experimentation.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

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.

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EARLY ALFALFA VARIETIES

CURRENT STATUS OF VARIETIES - JAN. 1, 1984

Recommended in Publication 296

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

Unrecommended Varieties

<u>Variety</u>	<u>Entered by</u>	<u>Official Status</u>	<u>Station Years of Data</u>
76-105	U. of Guelph	Support for lic., Deferred (2)	-
LAB 75	Labonte	Support for lic., Deferred (1)	8
75 T12	OSECO		6
Armor	OSECO		6
WL315	King & Speare		6
77-8CaB	King & Speare		6
Ca670-71	King & Speare		6
80334	King Grain		6
OT78-1	Ottawa		6
OT78-2	Ottawa		6
OT80-1	Ottawa		3
Hardy	Ottawa		3
SC3704	Ottawa		3
UCO-10	U.C.O.		3
Exp. 8015	Dekalb		3
Gemini	Pickseed		3

Early Alfalfa Varieties (cont'd.)

<u>Variety</u>	<u>Entered by</u>	<u>Offician Status</u>	<u>Station Years of Data</u>
79005	Pickseed		3
OSECO 79-9,5	OSECO		3
Cimarron	OSECO		3
LSC 214	Landis		3
LSC 215	Landis		3
Apollo II	OSECO		3
78T4	King Grain		3
OAC 80-105	U. of Guelph		3
VS25	Pickseed		3
WWB 31	OSECO		0
Ca760	King		0
81T21	King		0
02-1981-1	Pickseed		0
CW140	Pickseed		0
NAPB 110	Pickseed		0
NAPB 108	PAG Seeds		0
LSC 309	Landis		0
OSX2-9113	OSECO		0
OAC 81-120R	U. of Guelph		0
OAC 81-119R	U. of Guelph		0

EARLY ALFALFA. ENTRIES FOR PROBABLE CONSIDERATION IN 1984

Total Yield (kg/ha)

		75T12	Armor	WL315	77-8CAB	Saranac	Banner	Check Average
<u>1981 Seeding</u>								
Guelph	1982	14169	14440	13019	14135	13797	14132	13965
Kemptville	1982	13085	13142	12467	12653	13295	12182	12739
Kapuskasing	1982	6707	7334	6172	6623	6387	7291	6839
<u>1982 Seeding</u>								
Ridgetown	1983	11437	12565	11136	11700	11621	11909	11765
Guelph	1983	14479	14452	14960	14083	15389	15351	15370
Kemptville	1983	10491	11403	10219	10536	9688	10708	10198
Mean								
North		6907	7334	6172	6623	6387	7291	6839
South		12732	13200	12360	12621	12758	12856	12807
Province		11761	12223	11329	11622	11696	11929	11813
Station Years of Data		6	6	6	6	6	6	6

EARLY ALFALFA. ENTRIES FOR PROBABLE CONSIDERATION IN 1984

Total Yield (kg/ha)

		CA 670-71	80334	OT78-1	OT78-2	Saranac	Banner	Check Average
<u>1981 Seeding</u>								
Guelph	1982	13421	13730	13358	12918	13797	14132	13965
Kemptville	1982	12437	13394	12013	12191	13295	12182	12739
Kapuskasing	1982	7404	7027	6714	6567	6387	7291	6839
<u>1982 Seeding</u>								
Ridgetown	1983	11747	12305	12006	11072	11621	11909	11765
Guelph	1983	13951	15329	14826	13608	15389	15351	15370
Kemptville	1983	10602	10498	10001	9764	9688	10708	10198
Mean								
North		7407	7027	6714	6567	6387	7291	6839
South		12432	13051	12441	11911	12758	12856	12807
Province		11594	12047	11486	11020	11696	11929	11813
Station Years of Data		6	6	6	6	6	6	6

Table 1 Alfalfa yield trial (Early). Experiment 1082
Ridgetown 1983 yield data. Seeded 1982

Entry	Dry matter yield (kg/ha) 1983			Total (kg/ha) 1983
	Cut 1	Cut 2	Cut 3	
9015	6122	3463	3305	12891
Armor	6096	3592	2878	12565
UCO 10	6197	2768	3455	12421
Apollo II.	6025	3372	2994	12391
80334	6252	3029	3024	12305
QT78-1	6057	2795	3153	12006
Banner	5882	3046	2982	11909
9005	5863	2638	3402	11903
LSC 214	5845	3380	2667	11892
VS 25	5872	2820	3159	11851
Cimarron	5636	3234	2933	11804
78T4	5815	2553	3401	11769
CA 670-71	5735	2814	3198	11747
77-8 CAB	5147	3422	3130	11700
OT81-1	5641	2781	3261	11683
Saranac	5639	3000	2982	11621
25T12	5470	2658	3310	11437
79-9,5	5526	2785	3081	11392
LSC 215	5349	2889	3021	11259
WL 315	5486	2651	2999	11136
SC 3704	6223	2658	2250	11131
QT 78-2	5227	2631	3214	11072
Gemini	5731	2703	2588	11022
OAC 80-105	5134	2550	2551	10234
Hardy	6056	1979	1945	9979
LSD 5%:	894	681	373	1275
Mean :	5761	2888	2995	11645
C.V.% :	11.1	16.8	8.9	7.8

Location: Ridgetown

Plot size: 1.6m X 5.0m

Design: Lattice

Soil type: Clay loam

Seeding method:
Broadcast

Replications: 4

Seeding date:
April 28, 1982

Cuttings: C₁ - June 20
C₂ - July 20
C₃ - August 23

Herbicide:
Eptam

Fertilizer: None

Table 2 Alfalfa yield trial (Early). Experiment 2834
Guelph 1983 yield data. Seeded 1982

Entry	Dry matter yield (kg/ha) 1983			Total (kg/ha) 1983
	Cut 1	Cut 2	Cut 3	
UCO 10	6437	4172	5447	16055
Saranac	6446	4107	4836	15389
Banner	6017	3969	5365	15351
80334	6202	4221	4906	15329
78T4	6430	3906	4898	15234
Gemini	6173	4055	4752	14980
WL 315	6214	3963	4783	14960
OT 78-1	5696	4092	5039	14826
8015	6037	3870	4847	14754
79-9,5	5576	4061	5037	14673
VS 25	5955	4068	4614	14637
Apollo II	5836	3912	4851	14600
Cimarron	5596	3960	5032	14588
→ WWB 31 (OT81-1)	6014	3803	4735	14552
LSC 214	6154	3631	4741	14526
75T12	5960	3798	4722	14479
Armor	5487	4171	4794	14452
79005	5788	3696	4650	14134
77-8 CAB	5660	3742	4680	14083
CA 670-71	5352	3882	4717	13951
LSC 215	5547	3775	4552	13874
Hardy	5817	3503	4496	13816
OT 78-2	5614	3400	4594	13608
OAC 80-105	4700	3403	4343	12447
SC 3704	5603	2642	3910	12155
LSD 5%:	616	632	546	1348
Mean :	5852	3832	4774	14458
C.V.% :	7.5	11.8	8.2	6.7

Location: Elora Research Station

Plot size: 1.5m X 6.0m

Design: Lattice

Soil type: Connestoga silt loam

Seeding method: 10 row plot seeder

Replications: 4

Seeding date: May 10, 1982

Cuttings: C₁ - June 16

C₂ - July 19

C₃ - August 18

Herbicide: None

Fertilizer: 350 kg/ha of 0-20-20
fall, 1982

Table 3 Alfalfa yield trial (Early). Experiment 3063
Kemptville 1983 yield data. Seeded 1982

Entry	<u>Dry matter yield (kg/ha) 1983</u>			Total (kg/ha) 1983
	Cut 1	Cut 2	Cut 3	
Apica	6612	3449	2170	12231
79-9,5	5951	3513	2398	11862
LSC 215	6294	3267	2193	11754
Gemini	6020	3282	2280	11582
Armor	6000	3244	2158	11403
532	6329	3135	1839	11303
78T4	5680	3084	2383	11146
SC 3704	6748	2781	1595	11124
LSC 214	5820	3137	2050	11007
79005	5741	3049	2168	10958
8015	5473	3135	2178	10785
Banner	5447	3181	2080	10708
Cimarron	5158	3197	2305	10661
CA 670-71	5432	3060	2110	10602
77-8 CAB	5330	3155	2050	10536
80334	5416	3076	2006	10498
75T12	5270	2979	2242	10491
Regal	5542	2848	1997	10387
UCO 10	5325	2955	2077	10356
WL 315	5540	2859	1820	10219
Apollo II	5084	2946	2105	10135
OT 78-1	5257	2904	1841	10001
VS 25	5112	2862	1901	9874
OT 78-2	5054	2805	1906	9764
Saranac	5260	2690	1737	9688
OAC 80-105	2480	1329	1045	4853
LSD 5%:	793	551	426	1547
Mean :	5514	2997	2024	10536
C.V.% :	10.2	13.1	15.0	10.4

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: April 30, 1982

Cuttings: C₁ - June 16

C₂ - July 15

Herbicide: None

C₃ - August 18

Fertilizer: 300 pd/A of 0-30-15
fall, 1982

MEDIUM ALFALFA VARIETIES

CURRENT STATUS OF VARIETIES - JAN. 1, 1984

Recommended in Publication 296

Algonquin	Pickstar	Vernal
120	Glory	WL 215
Iroquois	Titan	Weevlc hek
Magnum	Valor	524
526		

Unrecommended Varieties

<u>Variety</u>	<u>Entered by</u>	<u>Official Status</u>	<u>Station Years of Data</u>
OAC Minto	Speare Seeds	Lic., Deferred (3)	-
NAPB 90 (Thunder)	OSECO		6
MLM 02042	Pickseed		6
WL 221	King & Speare		6
Ca838	King & Speare		6
77T1	King & Speare		6
80335	N.K.		6
79172	King Grain		6
Far-14	Ottawa		6
Comsel	Ottawa		3
SC Poly 2	Ottawa		3
79003	Pickseed		3
OSECO 79-12,5	OSECO		3
LSC 216	Landis		3
Ca744	King Grain		3
XAF12	Pioneer		0
79001	Pickseed		0
80012	Pickseed		0
CW241	Pickseed		0

Medium Alfalfa Varieties (cont'd.)

<u>Variety</u>	<u>Entered by</u>	<u>Official Status</u>	<u>Station Years of Data</u>
LSC 110	Landis		0
LSC 308	Landis		0
OSX2-9114	OSECO		0
VW 33-2	Ottawa Res. Stn.		0
OT83-3	Ottawa Res. Stn.		0

MEDIUM ALFALFA. ENTRIES ELIGIBLE FOR CONSIDERATION IN 1983
Total Yield (kg/ha)

		526	Iroquois	520	Check Average
<u>1980 Seeding</u>					
Chatham (Pioneer)	1982	14346	-	14214	14214
Woodstock (Pioneer)	1982	14826	-	14400	14400
<u>1981 Seeding</u>					
Kemptville	1982	12636	12454	11547	12001
Ottawa	1982	7925	7798	8921	8359
Kapuskasing	1982	5922	6565	5482	6024
<u>1982 Seeding</u>					
Ridgetown	1983	12039	10685	11694	11190
Guelph	1983	15360	15459	14148	14804
Kemptville	1983	12282	11794	11986	11890
Mean					
North		5922	6565	5482	6024
South		12773	11638	12416	12408
Province		11917	10792	11610	11549
Station years of data		8	6	8	8

MEDIUM ALFALFA. ENTRIES FOR PROBABLE CONSIDERATION IN 1984

Total Yield (kg/ha)

		77T1	80335	79172	FAR 1-14	520	Iroquois	Check Average
<u>1981 Seeding</u>								
Kemptville	1982	10641	11698	11588	12037	11547	12454	12001
Ottawa	1982	7700	8451	7544	8551	8921	7798	8359
Kapuskasing	1982	5497	5403	5840	5514	5482	6565	6024
<u>1982 Seeding</u>								
Kemptville	1983	10882	11444	10745	11488	11986	11794	11980
Ridgetown	1983	11815	12419	11741	11792	11694	10685	11190
Guelph	1983	13061	14127	13472	14605	14148	15459	14804
Mean								
North		5497	5403	5840	5514	5482	6565	6024
South		10824	11628	11018	11695	11659	11638	11649
Province		9936	10590	10155	10665	10630	10793	10711
Station Years of Data		6	6	6	6	6	6	6

MEDIUM ALFALFA. ENTRIES FOR PROBABLE CONSIDERATION IN 1984

Total Yield (kg/ha)

		NAPB 90	MLM02042	WL221	CA 838	520	Iroquois	Check Average
<u>1981 Seeding</u>								
Kemptville	1982	11853	11955	11126	11324	11547	12454	12001
Ottawa	1982	8957	8671	7612	8238	8921	7798	8359
Kapuskasing	1982	6001	6069	5159	5934	5482	6565	6024
<u>1982 Seeding</u>								
Kemptville	1983	11824	11759	11268	11443	11986	11794	11980
Ridgetown	1983	12581	10936	12026	12257	11694	10685	11190
Guelph	1983	14418	15322	14224	14440	14148	15459	14804
Mean								
North		6001	6069	5159	5934	5482	6565	6024
South		11927	11729	11251	11540	11659	11638	11649
Province		10939	10785	10236	10606	10630	10793	10711
Station Years of Data		6	6	6	6	6	6	6

Table 4 Alfalfa yield trial (Medium). Experiment 1082
Ridgetown 1983 yield data. Seeded 1982

Entry	Dry matter yield (kg/ha) 1983.			Total (kg/ha) 1983
	Cut 1	Cut 2	Cut 3	
NAPB 90	5957	3394	3230	12581
80335	5920	3232	3267	12419
CA 838	5834	3325	3097	12257
526	6016	2785	3239	12039
WL 221	6141	2907	2978	12026
77T1	5734	3007	3073	11815
SC Poly 2	5849	2998	2961	11808
FAR 1-14	5840	2781	3171	11792
79172	6290	3002	2449	11741
520	5836	2689	3169	11694
Comsel	5423	2858	3402	11683
79003	5907	2565	3100	11573
LSC 216	5544	2931	2955	11430
79-12,5	5803	3093	2502	11398
CA 744	5504	2686	3153	11343
02042	5242	2694	3000	10936
Iroquois	5140	2786	2760	10685
LSD 5%:	894	681	373	1275
MEAN :	5764	2925	3030	11719
C.V.% :	11.1	16.8	8.9	7.8

Location: Ridgetown

Plot size: 1.6m X 5.0m

Design: Lattice

Soil type: Clay loam

Seeding method: Broadcast

Replications: 4

Seeding date: April 28, 1982

Cuttings: C₁ - June 20

C₂ - July 20

Herbicide: Eptam

C₃ - August 23

Fertilizer: None

Table 5 Alfalfa yield trial (Medium). Experiment 2834
Guelph 1983 yield data. Seeded 1982

Entry	Dry matter yield (kg/ha) 1983			Total (kg/ha) 1983
	Cut 1	Cut 2	Cut 3	
Iroquois	6206	4197	5057	15459
526	6063	4126	5171	15360
02042	6137	4447	4738	15322
79033	6311	4248	4732	15291
79-12,5	6135	3782	4710	14627
FAR 1-14	5646	4119	4841	14605
SC Poly 2	6151	3763	4613	14526
LSC 216	5506	4119	4884	14508
CA 838	6175	3707	4567	14440
NAPB 90	5936	3928	4554	14418
Comsel	5780	3779	4746	14305
CA 744	5866	3703	4655	14225
WL 221	5775	3750	4698	14224
520	6009	3530	4609	14148
80335	5682	3786	4659	14127
79172	5977	3249	4246	13472
77T1	5759	3200	4102	13061
LSD 5%:	616	632	546	1348
Mean :	5948	3849	4681	14478
C.V.% :	7.5	11.8	8.2	6.7

Location: Elora Research
Station

Plot size: 1.5m X 6.0m

Design: Lattice

Soil type: Connestoga silt loam

Seeding method: 10 row plot
seeder

Replications: 4

Seeding date: May 10, 1982

Cuttings: C₁ - June 16

C₂ - July 19

C₃ - August 18

Herbicide: None

Fertilizer: 350 kg/ha of 0-20-20
fall, 1982

Table 6 Alfalfa yield trial (Medium). Experiment 3064
Kemptville 1983 yield data. Seeded 1982

Entry	Dry matter yield (kg/ha) 1983			Total (kg/ha) 1983
	Cut 1	Cut 2	Cut 3	
526	6306	3428	2549	12282
520	6545	3160	2281	11986
Sc Poly 2	6228	3397	2274	11899
NAPB 90	6110	3281	2433	11824
Iroquois	6015	3302	2477	11794
02042	6047	3234	2478	11759
LSC 216	6134	3258	2356	11749
79003	6141	3189	2277	11607
79-12,5	5966	3134	2402	11503
FAR 1-14	5996	3120	2373	11488
80335	6113	3006	2324	11444
CA 838	5883	3137	2423	11443
CA 744	5783	3115	2377	11275
WL 221	5914	3088	2265	11268
77T1	5490	3057	2334	10882
79172	5819	2848	2078	10745
Comsel	5295	2879	2287	10461
LSD 5%:	544	307	303	780
Mean :	5987	3155	2352	11495
C.V.% :	6.4	6.8	9.1	4.8

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: April 30, 1982

Cuttings: C₁ - June 16

C₂ - July 15

Herbicide: None

C₃ - August 18

Fertilizer: 300 pd/A of
0-30-15 fall, 1982

Table 7 Alfalfa Performance Trial (Early). Experiment 6487
Kapusksing 1983 yield data. Seeded 1981

Entry	Dry matter yield (kg/ha) 1983		Total (kg/ha) 1983
	Cut 1	Cut 2	
Citation	2985	2445	5430
Angus	2784	2510	5294
Saranac	2601	2433	5033
Classic	2587	2232	4819
Anchor	2661	2103	4764
Trident	2475	2058	4532
Answer	2479	2041	4520
Banner	2225	2256	4481
K1-7	2176	2260	4436
Vista	2210	2162	4372
Pacer	2132	2049	4181
Thor	2084	2061	4145
Ceres	2019	2033	4052
Apollo	1809	1778	3586
LSD 5%:	433	444	817
Mean :	2373	2173	4546
C.V.% :	12.8	14.3	12.6

Location: Kapusksing
Experimental Farm

Plot size: 1.5, 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 - July 18

Herbicide: None

C₂ - September 7

Fertilizer: 275 kg/ha of
0-30-15 fall, 1982

Table 8 Alfalfa performance trial (Medium). Experiment 6465
Kapusksasing 1983 yield data. Seeded 1981

Entry	Dry matter yield (kg/ha) 1983		Total (kg/ha) 1983
	Cut 1	Cut 2	
Iroquois	2619	2513	5132
Algonquin	2762	2297	5059
120	2441	2441	4882
Välor	2488	2222	4710
Futura	2323	2271	4594
Titan	2321	2236	4557
Vernal	2299	2157	4456
Weevlchek	2187	2202	4388
520	2127	2187	4314
Pickstar	2121	2131	4252
Magnum	1991	2247	4239
WL-215	2037	1900	3937
524	1774	1984	3758
LSD 5%:	407	331	656
Mean:	2268	2214	4483
C.V.% :	12.5	10.4	10.2

Location: Kapusksasing
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
(R₁, R₂ and R₃ only
harvested)

Seeding date: May 19, 1981

Herbicide: None

Cuttings: C₁ - July 18
C₂ - September 7

Fertilizer: 275 kg/ha of
0-30-15 fall, 1982

BIRD'S-FOOT TREFOIL VARIETIES

CURRENT STATUS OF VARIETIES - JAN. 1, 1984

<u>Variety</u>	<u>Entered by</u>	<u>Official Status</u>	<u>Station Years of Data</u>
Empire	O.F.C.C.	Recommended, Publication 296	-
Leo	O.F.C.C.	Recommended, Publication 296	-
Maitland	O.F.C.C.	Recommended, Publication 296	-
Viking	O.F.C.C.	Recommended, Publication 296	-
NC-83 (Norcen)	O.F.C.C.	Supported for lic., Deferred (3)	-
Dawn	NAPB	Not supported, re-examine 1984 with further data.	11
01004	Pickseed		4
PS79055	Pickseed		4

EXPT 6514 '82 TREFOIL VARIETY TRIAL KAPUSKASING 1983

A=TK82-83

Code	Name	Cut 1	Cut 2	Total kg/ha
7033	MLM 01004	2479	2441	4920
7001	Leo	2300	2300	4600
7008	Dawn	2060	2167	4227
7032	PS 79055	1634	1912	3546
7003	Empire	995	1878	2873
7004	Viking	984	1640	2625
7010	Maitland	974	1619	2593
	LSD 5% (kg/ha)	246	220	336
	Total Mean (kg/ha)	1632	1994	3626
	C.V.	10.1	7.4	6.2

Sown: May 13, 1982

Plot Size: 1.5 m x 6.0 m (8 rows/plot)

Fertilizer: 275 kg/ha 0-30-15

Harvest: 2 cuts/season at early bloom

Weed Control: None, hand weeding on seeding year

1983 Harvests: First cut - July 11, 1983

Second cut - Aug. 19, 1983

Soil Type: Heavy Clay

EXPT 1083 '82 BIRD'S FOOT TREFOIL TEST RIDGETOWN 1983

Code	Name	Cut 1	Cut 2	Total kg/ha
7010	Maitland	5726	2192	7917
7004	Viking	5630	2086	7716
7032	PS 79055	5879	1792	7670
7033	MLM 01004	5554	1921	7475
7008	Dawn	5353	1767	7119
7001	Leo	5157	1842	7000
7003	Empire	4888	1255	6143
	LSD 5% (kg/ha)	1016	258	1028
	Total Mean (kg/ha)	5455	1836	7292
	C.V.	12.5	9.5	9.5

A-TR82-83

Plot Size: 1.6 x 5 m
 Soil Type: Brookston Clay Loam
 Previous Crop: Soybeans
 Seeding Rate: 11 kg/ha
 Seeding Method: Broadcast
 Herbicide: Eptam @ 3.75 L/ha p.p.i.
 Planting Date: April 28, 1983
 Date Harvested: Cut 1 - June 20, 1983
 Cut 2 - July 19, 1983

ELORA TREFOIL VARIETY TEST EXPT 2582 Harvested 1982

1981 Seeded

(Reported 1983)

Code	Name	Cut 1	Cut 2	Total kg/ha
7033	MLM 01004	6806	4593	11398
7031	RC4 SYN-2	7056	4217	11273
7029	NC-83	6884	4170	11053
7003	Empire	7102	3821	10922
7032	PS 79055	6787	4021	10808
7001	Leo	6651	4031	10632
7030	RC3 SP3	6488	4077	10564
7010	Maitland	6291	4258	10548
7004	Viking	5929	4149	10078
7028	Ky. Ecotype	5338	4006	9344
	LSD 5% (kg/ha)	857	671	1183
	Total Mean (kg/ha)	6533	4134	10667
	C.V.	9	11	8

A: TELOR82

Design: Randomized Complete Block

Seeding Method: 5 row plot seeder

Herbicide:

Plot Size: 1.5 m x 6.0 m

Soil Type: Silt loam

Replications: 4

Harvest Dates: Cut 1 - June 29

Cut 2 - Aug. 23

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

168 kg/ha 0-20-20 Aug. 23, 1981

TREFOIL 1983 SUMMARY

Code	Name	Ridgetown	Kapuskasing	Mean	% of Check
		# 1083 '82 Seeded '83 Harvested	# 6514 '82 Seeded '83 Harvested		
7001	Leo (check)	7000	4600	5800	100
7033	MLM 01004	7475	4920	6197.5	106.9
7008	Dawn	7119	4227	5673	97.8
7032	PS 79055	7670	3546	5608	96.7
7003	Empire	6143	2873	4508	77.7
7004	Viking	7716	2625	5170.5	89.2
7010	Maitland	7917	2593	5255	90.6
	LSD 5%	1028	336		
	C.V.	9.5	6.2		

TREFOIL 1983 SUMMARY

Code	Name	Ridgetown # 1083 '82 Seeded '83 Harvested	Kapuskasing # 6514 '82 Seeded '83 Harvested	Mean	% of Check
7001	Leo (check)	7000	4600	5800	100
7033	MLM 01004	7475	4920	6197.5	106.9
7008	Dawn	7119	4227	5673	97.8
7032	PS 79055	7670	3546	5608	96.7
7003	Empire	6143	2873	4508	77.7
7004	Viking	7716	2625	5170.5	89.2
7010	Maitland	7917	2593	5255	90.6
	LSD 5%	1028	336		
	C.V.	9.5	6.2		

RED CLOVER VARIETIES

CURRENT STATUS OF VARIETIES - JAN. 1, 1984

<u>Variety</u>	<u>Entered by</u>	<u>Official Status</u>	<u>Station Years of Data</u>
Arlington	O.F.C.C.	Recommended, Publication 296	-
Florex	O.F.C.C.	Recommended, Publication 296	-
Lakeland	O.F.C.C.	Recommended, Publication 296	-
Ottawa	O.F.C.C.	Recommended, Publication 296	-
Prosper I	O.F.C.C.	Recommended, Publication 296	-
Kuhn	Landis		1
W116	King Grain		1
W115	N.K.		1
YKYC	N.K.		1
BCHG 0384	Bonis		0
OT83-1	Ottawa Res. Stn.		0

1982 RED CLOVER SUMMARY (Revised 1983)

		Total Yields kg/ha									
Code	Cultivar Name	Ridgetown # 1062	Kapuskasing # 6559	Kemptville # 3035	Kemptville # 3041	Elora # 2569	Thunder Bay # 7139	Elora # 2569	Kemptville # 3041	Thunder Bay # 7139	Mean Yield
		'79 Seeded	'79 Seeded	'79 Seeded	'80 Seeded	'80 Seeded	'80 Seeded	'80 Seeded	'80 Seeded	'80 Seeded	
		'80 Harvested	'80 Harvested	'81 Harvested	'81 Harvested	'81 Harvested	'81 Harvested	'82 Harvested	'82 Harvested	'82 Harvested	
4002	Lakeland	11451.73	5180.60	9292.68	9969.20	9535.17	5103.73	10742	10413.80	5399.45	8565.37
4003	Ottawa	12127.89	4327.17	7606.05	9169.71	8341.39	5182.89	10226	9393.87	4672.27	7894.14
4017	Florex	11075.25	5895.20	9921.84	10317.45	9597.67	5183.21	12196	10800.78	5657.06	8960.50
4023	Arlington	10999.11	5271.74	9047.66	9986.96	9461.14	5018.25	11687	10271.00	5303.99	8560.76
4027	Prosper I	11075.12	5588.11	9152.09	10024.25	9845.59	5178.37	11134	10629.44	4963.77	8621.19
4029	Tristan	11513.72	5169.84	8675.74	10504.15	9130.05	5338.41	11152	10190.12	5427.83	8566.87
4030	Redland II	11842.55	4760.17	8938.53	9477.66	8636.75	4988.12	10222	10612.61	5159.80	8293.13

1982 RED CLOVER SUMMARY Revised 1983

		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	11098	10700.41	5224.08	6167.16	5361.09	6355.20	7695.38
Ruby		9946.44	9114.25	5306.79	11259	10455.02	5051.50	5908.62	5054.82	5923.32	7557.75
Pacific		8719.73	7102.75	4843.52	9112	8583.58	3294.34	6163.29	4732.74	4398.93	6327.88
Florex		10317.45	9597.67	5183.21	12196	10800.78	5657.06	6402.02	6456.50	6467.93	8119.85

RED CLOVER 1982 Revised 1983

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	10742	10413.80	5399.45	6208.13	5251.91	6283.07	7383.06	92.3
4003	Ottawa	10226	9393.87	4672.27	5757.49	4914.86	5541.07	6750.93	84.4
4023	Arlington	11687	10271.00	5303.99	6162.60	4846.91	6077.73	7391.54	92.4
4027	Prosper I	11134	10629.44	4963.77	6260.93	5614.59	6352.95	7492.61	93.7
4017	Florex	12196	10800.78	5657.06	6402.02	6456.50	6467.93	7996.72	100.0

A: RCELOR82.83

EXPT 2594 '82 RED CLOVER VARIETY TRIAL ELORA 1983

Code	Name	Cut 1	Cut 2	Total kg/ha	% of Check
4015	Ottawa 4N	8319	5659	13978	107.0
4036	W116	8846	5031	13877	106.2
4034	W115	8705	5016	13721	105.0
4017	Florex (K8-115)	7780	5284	13063	100.0
4035	YKYC	7869	4972	12841	98.3
4002	Lakeland	7530	5106	12635	96.7
4027	Prosper I	7476	4991	12467	95.4
4023	Arlington	7344	5050	12394	94.9
4037	Kuhn	6709	4625	11334	86.8
4003	Ottawa	6445	4571	11017	84.3
	LSD 5% (kg/ha)	893	632	1030	
	Total Mean (kg/ha)	7702	5030	12733	
	C.V.	8.0	8.7	5.6	

Design: Randomized Complete Block

Seeding Method: 5 row plot seeder

Herbicide: Eptam

Plot Size: 1.5 m x 6.0 m

Soil type: Silt loam

Replications: 4

Harvest Dates: Cut 1 - June 30

Cut 2 - Aug. 16

Fertilizer: 168 kg/ha 0-20-20 June, 1982
168 kg/ha 0-20-20 June, 1983

ELORA EXPT 2568 '80 RED CLOVER VARIETY TEST HARVESTED 1982

REVISED 1983

A RCKEEL8283

Code	Name	Cut 1	Cut 2	Total kg/ha
4017	Florex (K8-115)	6147	5050	12196
4023	Arlington	6474	5213	11687
4032	Ruby	6377	4882	11259
4029	Tristan	6165	4987	11152
4027	Prosper I	6286	4848	11134
4031	7801	5951	5147	11098
4002	Lakeland	5861	4880	10742
4003	Ottawa	5803	4423	10226
4030	Redland II	5551	4671	10222
4033	Pacific	4778	4334	9112
	LSD 5% (kg/ha)	690	665	928
	Total Mean (kg/ha)	5939	4944	10883
	C.V.	8	9	6

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 - June 30, Cut 2 - Aug. 25

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

168 kg/ha 0-20-20 June, 1982

WHITE CLOVER VARIETIES

CURRENT STATUS OF VARIETIES - JAN. 1, 1984

<u>Variety</u>	<u>Entered by</u>	<u>Official Status</u>	<u>Station Years of Data</u>
Sacramento	O.F.C.C.	Recommended, Publication 296	-
Szarvasi	Pickseed	Support for licence, Deferred (2)	-
California Ladino	O.F.C.C.	Temporary licence, to July 7, 1984	1

EXPT 2596 '82 WHITE CLOVER VARIETY TRIAL ELORA 1983

A: WCELR82-83

Code	Name	Cut 1	Cut 2	Total kg/ha
8008	Ladino (Pickseed)	2407	3078	5485
8007	Calif. Ladino	2346	3049	5396
8005	Sacramento	2328	2972	5299
8003	Common	2105	3090	5195
	LSD 5% (kg/ha)	299	408	565
	Total Mean (kg/ha)	2296	3047	5344
	C.V.	12.5	12.9	10.2

Design: Randomized Complete block

Seeding Method: 5 row plot seeder

Herbicide:

Plot Size: 1.5 m x 6.0 m

Soil Type: Silt Loam

Replications: 4

Harvest Dates: Cut 1 - June 14

Cut 2 - July 14

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

168 kg/ha 0-20-20 June, 1983

BROME GRASS VARIETIES

CURRENT STATUS OF VARIETIES - JAN. 1, 1984

<u>Variety</u>	<u>Entered by</u>	<u>Official Status</u>	<u>Station Years of Data</u>
Baylor	O.F.C.C.	Recommended, Publication 296	-
Beacon	O.F.C.C.	Recommended, Publication 296	-
Blair	O.F.C.C.	Recommended, Publication 296	-
Saratoga	O.F.C.C.	Recommended, Publication 296	-
Tempo	O.F.C.C.	Recommended, Publication 296	-
Bromex	O.F.C.C.	Recommended, Publication 296	-
13011 (Bravo)	Pickseed	Licenced, Deferred (4)	-

ORCHARD GRASS VARIETIES

CURRENT STATUS OF VARIETIES - JAN. 1, 1984

<u>Variety</u>	<u>Entered by</u>	<u>Official Status</u>	<u>Station Years of Data</u>
Hallmark	O.F.C.C.	Recommended, Publication 296	-
Juno	O.F.C.C.	Recommended, Publication 296	-
Ina	O.F.C.C.	Recommended, Publication 296	-
Napier	O.F.C.C.	Recommended, Publication 296	-
Sumas	O.F.C.C.	Recommended, Publication 296	-
Kay	O.F.C.C.	Recommended, Publication 296	-
Hawk	OSECO	Supported for licence, Deferred (2)	-
K8-122	King Grain		4
14011	Pickseed		2

Summary of Varieties

1981 seeding

Entry	Ottawa 1982	Thunder Bay 1982	Mean
Kay	9670	6793	8232
K8-122	8917	6478	7698

1982 seeding

	Ottawa 1983	Guelph 1983	Mean	4 station Mean
Kay	12296	9630	10963	9597
K8-122	12296	10669	11483	9590

1982 seeding

	Ottawa	Guelph	2 year mean
Hallmark	10744	9459	10102
14011	11345	10690	11018

Kay late check

Hallmark early check

Ontario Orchardgrass Test. Experiment 2830
Guelph, Ontario yield data. Seeded 1982

Entry	<u>Dry matter yield (kg/ha)</u>		Total	Mean
	Cut 1	Cut 2		
Sumas	6809	4099	10,908	5454
14111	6274	4416	10,690	5345
K8-122	6935	3734	10,669	5335
Ina	6133	4178	10,312	5156
Napier	6179	3872	10,051	5026
Juno	6208	3742	9,950	4975
Kay	5998	3632	9,630	4815
Hallmark	5610	3850	9,459	4730
LSD 5%:	1039	572	1349	
Mean :	6268	3940	10,209	
C.V.% :	11.3	9.9	9.0	

Ontario Orchardgrass Test. Experiment 4182
Ottawa, Ont. 1983 yield data. Seeded 1982

Entry	<u>Dry matter yield (kg/ha)</u>		Total	Mean
	Cut 1	Cut 2		
Kay	8970	3326	12296	6148
K8-122	8859	3437	12296	6148
Sumas	8897	3347	12245	6123
Napier	8270	3597	11867	5934
14111	7845	3499	11345	5673
Juno	8348	2957	11306	5653
Ina	7386	3637	11023	5516
Hallmark	7010	3735	10744	5372
LSD 5%:	1311	511	1517	
Mean :	8198	3442	11640	
C.V.% :	10.9	10.1	8.9	

Summary of 1982 Seeding

Entry	Guelph total	Ottawa total	Mean
Kay (late)	9630	12296	10963
K8-122 (late)	10669	12296	11483
Sumas (late)	10908	12245	11577
14111 (early)	10690	11345	11018
Ina (early)	10312	11023	10668
Juno (early)	9950	11306	10628
Napier (early)	10051	11867	10959
Hallmark (early)	9459	10744	10102

Timothy Variety Tests - Nov. 1, 1983

In 1982, yield data were received from two performance trials which include the recommended varieties. These trials were:

Seeded 1981 - Guelph, Cut 1 only
Seeded 1982 - Ridgetown, Cut 1 and Cut 2

Data were received from licensing trials:

Seeded 1981 - Guelph, Cut 1 only
- Kemptville, Cut 1 only
- Ottawa, Cut 1 and Cut 2

Seeded 1982 - Ridgetown, Cut 1 and Cut 2
- Ottawa, Cut 1 and Cut 2
- Kapuskasing, Cut 1 and Cut 2

Three strains were not supported for licensing in 1982, but are to be re-examined. For these we now have 9 station-years of data. These are:

K 215
PS 79057
Tiiti

Five strains will be considered for the first time this fall, as they now have 8 station-years of data. These are:

WWT 95
Bilbo
Pota
MLM 17018
Hokua

The strains K215 and WWT95 were supported for licensing.

TIMOTHY VARIETIES

CURRENT STATUS OF VARIETIES - JAN. 1, 1984

Recommended in Publication 296

Toro	Itasca	Pronto
Basho	Timfor	Richmond
Champ	Climax	Salvo

Unrecommended Varieties

<u>Variety</u>	<u>Entered by</u>	<u>Official Status</u>	<u>Station Years of Data</u>
K216	King Grain	Supported for licence, Deferred (2)	-
WWT 95	OSECO	Not supported 1983, re-examine 1984	9
Bilbo	OSECO	Not supported 1983, re-examine 1984	9
Pota	OSECO	Not supported 1983, re-examine 1984	9
MLM 17018	Pickseed	Not supported 1983, re-examine 1984	9
Hokuo	Landis	Licensed; Not supported 1983, re-examine 1984	9
Bodin	OSECO		3
Mino	OSECO		3
Bartimi	OSECO		3
Lacombe-1	O.F.C.C.		0
81006	Pickseed		0
BCSV0907	Bonis		0

Entries - To be Considered - Nov. 1983

<u>Entry</u>	<u>Yield (kg/ha)</u>					
	<u>Seeded 1981¹</u>		<u>Seeded 1982²</u>		<u>Mean</u>	
	<u>Cut 1¹</u>	<u>Total²</u>	<u>Cut 1³</u>	<u>Total³</u>	<u>Cut 1</u>	<u>Total</u>
MLM 17018	7480	9480	6140	8870	7030	9280
WWT 95	7630	9230	6350	8450	7200	8970
Bilbo	7290	9050	6000	8370	6860	8820
Hokua	7280	9300	6150	8120	6900	8910
Pota	7490	9200	5980	8300	6990	8900
Checks	7620	9370	5900	8420	7450	9050

¹ 6 station-years

² 3 station-years

Entries - To be Re-examined, 1983

<u>Entry</u>	<u>Yield (kg/ha)</u>					
	<u>Nov. 1982</u>		<u>1983</u>		<u>Mean</u>	
	<u>Cut 1¹</u>	<u>Total²</u>	<u>Cut 1³</u>	<u>Total⁴</u>	<u>Cut 1</u>	<u>Total</u>
K 215	6870	8780	7840	9220	7190	8930
PS 79057	6450	8170	7700	9030	6870	8410
Tiiti	6340	8250	7740	8750	6810	8420
Checks	6810	8760	7580	8920	7070	8810

¹ 6 station-years

² 4 station-years

³ 3 station-years

⁴ 1 station-year

Timothy Licensing Trials - Seeded 1981

Entry	Yield (kg/ha)					
	1982		1983		Mean	
	Cut 1 ¹	Total ¹	Cut 1 ¹	Total ¹	Cut 1	Total
K 216	8530	10760	7960	9000	8240	9880
MLM 17018	7340	9940	7610	9020	7480	9480
Richmond	7350	9840	7380	8890	7360	9370
Timfor	7730	10000	7330	8650	7530	9330
79-057	7490	9310	7700	9030	7600	9170
Climax	7570	9620	7820	9180	7700	9400
K 215	7560	9720	7840	9220	7700	9470
Hokua	7000	9530	7560	9060	7280	9300
Salvo	6730	9020	7180	8630	6960	8830
Bilbo	7050	9220	7530	8870	7290	9050
WWT 95	7250	9250	8010	9210	7630	9230
Pota	7310	9630	7670	8770	7490	9200
Tiiti	7120	9090	7740	8750	7430	8920
Checks	7650	9810	7580	8920	7620	9370

¹ Guelph, Kemptville, Ottawa

Timothy Licensing Trials - Seeded 1982

Variety	Yield (kg/ha) - 1983	
	Cut 1	Total
MLM 17018	6140	8870
WWT 95	6350	8450
Bilbo	6000	8370
Timfor	5860	8510
Climax	5940	8320
Potaor	5980	8300
Bartimi	6200	8070
Bodin	6090	8260
Hokua	6150	8120
Mino	5210	7464
Checks	5900	8415
C.V. (%)	10.7	7.5

Locations: Ottawa, Ridgetown, Kapuskasing

Exp. 2821. 81 Provincial timothy licensing trial.

<u>Entry</u>	<u>Yield (kg/ha) - 1983</u> <u>Cut 1</u>
6078 Titi	9642
6074 K 215	9572
6071 WWT 95	9544
6002 Climax	9414
6080 Pata	9397
6076 K 216	9146
6061 Hokua	8835
6040 Timfor	8748
6076 79-057	8599
6079 Bilbo	8285
6050 Richmond	8259
6081 MLM 17018	8040
6062 Salvo	7504

LSD 5% (kg/ha)	1319
Total mean (kg/ha)	8845
CV	10.4

Exp. 2821 - Timothy Licensing Trial Guelph

<u>Entry</u>	<u>% Headed - 1983</u>		
	<u>June 17</u>	<u>June 21</u>	<u>June 28</u>
Salvo	25	90	100*
Richmond	20	75	100*
17018	5	50	100
79-057	0	5	100
Bilbo	0	1	100
Pata	0	1	100
Timfor	0	1	50
Tuti	0	0	50
WWT95	0	0	25
Climax	0	0	25
Hokua	0	0	25
K215	0	0	25
K216	0	0	20

Exp. 3055. 81 timothy licensing trial, Kemptville.

<u>Entry</u>	<u>Yield (kg/ha) - 1983</u>	
	<u>Cut 1</u>	
6076 K 216	6816	
6071 WWT 95	6555	
6080 Pota	6508	
6079 Bilbo	6486	
6081 MLM 17018	6458	
6061 Hokua	6450	
6050 Richmond	6388	
6076 79-057	6366	
6002 Climax	6352	
6074 K 215	6327	
6078 Tiiti	6300	
6040 Timfor	6144	
6062 Salvo	5876	

LSD 5% (kg/ha)	354
Total mean (kg/ha)	6387
CV	3.9

Exp. 4281. 81 Provincial timothy licensing trial, Ottawa

<u>Variety</u>	<u>Yield (kg/ha) - 1983</u>		<u>Total kg/ha</u>
	<u>Cut 1</u>	<u>Cut 2</u>	
6081 MLM 67018	8335	4232	12567
6062 Salvo	8166	4351	12517
6076 79-057	8122	3998	12120
6050 Richmond	7498	4511	12009
6061 Hokua	7384	4514	11898
6079 Bilbo	7814	4029	11843
6002 Climax	7711	4073	11784
6074 K 215	7629	4132	11761
6071 WWT 95	7934	3602	11536
6076 K 216	7927	3125	11052
6040 Timfor	7087	3957	11044
6080 Pota	7117	3278	10395
6078 Tiiti	7292	3019	10311

LSD 5% (kg/ha)	N.S.	1004	N.S.
Total mean (kg/ha)	7694	3909	11603
CV	9.2	17.9	8.9

Exp. 4282. 82 Provincial timothy licensing trial, Ottawa.

<u>Variety</u>	<u>Yield (kg/ha) - 1983</u>		<u>Total</u>
	<u>Cut 1</u>	<u>Cut 2</u>	
6071 WWT 95	7734	2295	10029
6081 MLM 17018	7236	2755	9991
6084 Bartimi	7761	2195	9956
6079 Bilbo	7222	2625	9847
6002 Climax	7088	2662	9750
6083 Bodin	7335	2272	9607
6085 Lacombe-1	6909	2659	9568
6080 Pota	7044	2524	9567
6040 Timfor	6454	2856	9310
6061 Hokua	5848	2667	8515
6082 Mino	5998	2356	8354
LSD 5% (kg/ha)	N.S.	N.S.	N.S.
Total mean (kg/ha)	6966	2533	9499
CV	12.6	14.7	8.8

Exp. 1085. 82 timothy licensing test, Ridgetown.

<u>Entry</u>	<u>Yield (kg/ha) - 1983</u>		<u>Total kg/ha</u>
	<u>Cut 1</u>	<u>Cut 2</u>	
6081 MLM 17018	7506	3149	10655
6040 Timor	7207	2944	10151
6071 WWT 95	7646	2178	9824
6079 Bilbo	7264	2465	9730
6061 Hokua	6491	3226	9718
6082 Mino	7145	2451	9595
6002 Climax	7134	2418	9553
6080 Pota	6983	2498	9481
6083 Bodin	6694	2432	9127
6084 Bartimi	7005	1741	8746
LSD 5% (kg/ha)	684	429	641
Total mean (kg/ha)	7108	2550	9658
CV	5.6	9.8	3.9

Exp. 6046. 82 Timothy licensing trial, Kapuskasing.

APC

<u>Code</u>	<u>Name</u>	<u>Yield (kg/ha) - 1983</u>		<u>Total</u>
		<u>Cut 1</u>	<u>Cut 2</u>	
6085	Lacombe-1	4520	1650	6170
6061	Hokus	3830	2310	6140
6040	Timfor	3930	2130	6060
6083	Bodin	4240	1750	5990
6081	MLM 17018	3680	2290	5980
6080	Pota	3920	1950	5870
6002	Climax	3590	2060	5660
6079	Bilbo	3510	2030	5550
6084	Bartimi	3830	1670	5500
6071	WWT95	3660	1830	5480
6082	Mino	2490	1950	4440
	LSD 5% (kg/ha)	510	170	530
	Total mean (kg/ha)	3750	1970	5710
	CV	9.4	5.9	6.4

Exp. 2820 - Timothy Performance Trial Guelph

<u>Entry</u>	<u>% Headed - 1983</u>		
	<u>June 17</u>	<u>June 21</u>	<u>June 28</u>
Richmond	5	50	100
Toro	5	40	100
Basko	1	10	90
Itasca	0	1	75
Timfor	0	1	75
Champ	0	1	75
Climax	0	1	50
Pronto	0	0	50

Exp. 2820. 81 Provincial timothy performance trial, Guelph.

<u>Variety</u>	<u>Yield (kg/ha) - 1983</u>
	<u>Cut 1</u>
6037 Pronto	10,203
6005 Champ	9,715
6026 Itasca	9,621
6050 Richmond	9,460
6002 Climax	9,305
6009 Basho	9,174
6040 Timfor	8,696
6030 Toro	8,553

LSD 5% (kg/ha)	N.S.
Total mean (kg/ha)	9,341
CV	10.1

Exp. 1084. 82 timothy performance trial, Ridgetown.

Variety	Yield (kg/ha) - 1983		Total kg/ha
	Cut 1	Cut 2	
6002 Climax	7963	2973	10936
6050 Richmond	7369	3465	10834
6040 Timfor	7775	3042	10817
6026 Itasca	7378	3412	10791
6030 Toro	7131	3400	10531
6009 Basho	7300	3103	10402
6037 Pronto	7608	2668	10276
6005 Champ	7099	3112	10211
6062 Salvo	6761	3428	10189
LSD 5% (kg/ha)	687	365	N.S.
Total mean (kg/ha)	7376	3178	10554
CV	6.4	7.9	5.7

Timothy Performance Trials - Yields (kg/ha)

Variety	Seeded 1981		Seeded 1982		Mean		
	1982 ¹		1983 ²	1983 ³		Cut 1	Total
	Cut 1	Total	Cut 1	Cut 1	Total		
Climax	7560	10150	10200	7960	10940	8320	10410
Timfor	6960	10000	9620	7780	10820	7830	10270
Champ	6560	10040	9720	7100	10210	7490	10100
Itasca	6790	9740	9460	7380	10790	7610	10090
Richmond	6100	9360	8700	7370	10830	7070	9850
Pronto	6900	9490	9300	7610	10280	7680	9750
Basho	6100	9290	9170	7300	10400	7170	9660
Toro	5930	9060	8550	7130	10530	6890	9550
Salvo				6760	10190		
Mean	6610	9640	9340	7380	10550	7490	9940

¹ Guelph and Thunder Bay

² Guelph

³ Ridgetown

MISCELLANEOUS DATA

- Table 1 - Alfalfa, 1st cut yields by replication, Ridgetown, 1983 yield, from 1982 seeding.
- Table 2 - Alfalfa, % flower on 1st cut, Ridgetown, 1983 ratings, on 1982 seeding.
- Table 3 - Alfalfa, % lodging on 1st cut, Ridgetown, 1983 ratings on 1982 seeding.
- Table 4 - Early Alfalfa, vigor on seedling year, Ridgetown, 1983 rating on 1983 seeding.
- Table 5 - Medium alfalfa, vigor on seedling year, Ridgetown, 1983 rating on 1983 seeding.
- Table 6 - Early alfalfa, seeding year yields, Ridgetown, 1983 yields from 1983 seeding.
- Table 7 - Medium alfalfa, seeding year yields, Ridgetown, 1983 yields from 1983 seeding.
- Table 8 - Early alfalfa, persistence data, Kapuskasing, 1983 data from 1981 seeding.
- Table 9 - Early alfalfa, % winterkill, Kapuskasing, 1983 data from 1981 seeding.
- Table 10 - Medium alfalfa, % winterkill, Kapuskasing, 1983 data from 1981 seeding.
- Table 11 - Early alfalfa, Performance, % winterkill, Kapuskasing, 1983 data from 1981 seeding.
- Table 12 - Medium alfalfa, Performance, % winterkill, Kapuskasing, 1983 data from 1981 seeding.
- Table 13 - Early alfalfa, persistence data, Guelph, 1983 data from 1981 seeding.
- Table 14 - Early alfalfa, spring vigor, Guelph, 1983 data from 1981 seeding.
- Table 15 - Medium alfalfa, persistence data, Guelph, 1983 data from 1981 seeding.
- Table 16 - Medium alfalfa, spring vigor, Guelph, 1983 data from 1981 seeding.
- Table 17 - Early alfalfa, seeding yr. data (one cut), Ottawa, Kemptville, Kapuskasing 1983 yields from 1983 seedings.
- Table 18 - Medium alfalfa, seeding yr. data (one cut) Ottawa, Kemptville, Kapuskasing 1983 yields from 1983 seedings.
- Table 19 - Early alfalfa, vigor on seeding year, Kapuskasing, 1983 rating on 1983 seeding.

Table 20 - Medium alfalfa, vigor on seeding year, Kapuskasing, 1983 rating on 1983 seeding.

Table 21 - Spreading alfalfa, % winterkill, Kapuskasing, 1983 rating on 198 seeding.

Table 22 - Early alfalfa, persistence data, Kemptville, 1982 data from 1980 seeding.

Table 23 - Red clover, % winterkill, Kapuskasing, 1983 rating on 1982 seeding.

Table 24 - Red clover, vigor rating, Kapuskasing, 1983 rating on 198 seeding.

Table 25 - Trefoil, % winterkill, Kapuskasing, 1983 rating on 1982 seeding.

Table 26 - Orchard Grass, vigor rating, Kapuskasing, 1983 rating on 1982 seeding.

Table 27 - Timothy Performance, seedling vigor, Kapuskasing, 1983 data from 1983 seeding.

Table 28 - Timothy Variety, seedling vigor, Kapuskasing, 1983 data from 1983 seeding.

TABLE 1 - ALFALFA YIELD TRIAL. EXPERIMENT 1082, RIDGETOWN
CUT 1 (kg/ha) , 1983, SEEDED, 1982

ENTRY	CODE	REPS				MEAN
		1	2	3	4	
CA744	1148	6304	4714	5530	5458	5502
NAPB 90	1128	6421	6716	5387	5292	5954
OT 81-1	1152	6074	4703	6157	5621	5639
79172	1134	6190	6063	6157	6741	6287
PIONEER 526	1127	6357	5780	5515	6402	6013
80334	1124	6207	6865	6430	5495	6249
LSC 214	1139	5940	5577	4978	6874	5942
LSC 216	1149	6173	4652	5733	5606	5541
CA 670-71	1123	5990	5348	5759	5833	5733
WL 315	1121	5958	5875	5310	4790	5483
GEMINI	1143	6404	6047	5258	5206	5729
77-8 CAB	1122	5356	6325	4872	4026	5145
OSECO 79-9,5	1142	6042	4913	6347	4792	5523
PION 520	1504	6271	4703	6722	5637	5833
79005	1144	6289	5712	5836	5603	5860
UCO 10	1146	6240	6903	6477	5157	6194
FAR 1-14	1137	5974	5860	6588	4925	5837
WL 221	1130	6289	5424	6093	6746	6138
77T1	1132	5724	4925	6313	5964	5732
ARMOR	1120	5136	6295	6422	6519	6093
CIMARRON	1141	5693	4838	6575	5427	5634
BANNER	1022	5296	5838	6125	6256	5879
B0335	1133	5597	5611	6468	5994	5917
VS 25	1147	5990	6297	6441	4749	5869
SC POLY 2	1156	6026	5794	5018	6550	5847
78T4	1136	6107	5953	5150	6039	5812
COMSEL	1155	5926	5162	4886	5709	5421
OT 78-2	1126	5895	5286	4873	4846	5225
CA 838	1131	6254	6625	5057	5391	5832
79003	1151	6436	6637	5895	4652	5905
LSC 215	1140	5591	6141	4233	5423	5247
HARDY	1153	6638	5702	5698	6173	6053
OAC 80-105	1135	4790	6057	5070	4609	5132
02 042	1129	4061	5854	4573	6470	5239
OSECO 79-12,5	1150	4728	6359	6157	5956	5800
OSECO 75T12	1119	5910	6000	4925	5033	5467
OT 78-1	1125	6075	6140	5348	6656	6053
IROQUOIS	1501	5929	5583	5334	3704	5137
SARANAC	1001	6347	5211	5693	5296	5637
APOLLO II	1138	5857	5938	6558	5735	6022
8015	1145	6327	6016	6620	5515	6120
SC 3704	1154	6878	6240	5810	5954	6220
MEAN		5945	5778	5724	5591	5759

LSD (0.05) = 906

CV % = 11.2

TABLE 2 - ALFALFA YIELD TRIAL. EXPERIMENT 1082, RIDGETOWN
% FLOWER, 1983 AT CUT 1, SEEDED, 1982

ENTRY	CODE	REPS				MEAN
		1	2	3	4	
CA744	1148	5	10	1	5	5.2
NAPB 90	1128	10	10	10	10	10.0
OT 81-1	1152	10	10	10	10	10.0
79172	1134	5	10	10	5	7.5
PIONEER 526	1127	10	5	5	10	7.5
80334	1124	15	10	10	5	10.0
LSC 214	1139	10	10	5	15	10.0
LSC 216	1149	10	10	10	15	11.2
CA 670-71	1123	10	10	10	10	10.0
WL 315	1121	15	10	15	10	12.5
GEMINI	1143	15	15	20	15	16.2
77-8 CAB	1122	10	10	10	5	8.7
OSECO 79-9,5	1142	10	10	5	10	8.7
PION 520	1504	5	10	5	10	7.5
79005	1144	10	10	10	10	10.0
UCO 10	1146	15	10	10	10	11.2
FAR 1-14	1137	10	10	10	10	10.0
WL 221	1130	5	5	1	5	4.0
77T1	1132	1	10	10	5	6.5
ARMOR	1120	10	5	10	1	6.5
CIMARRON	1141	10	10	10	10	10.0
BANNER	1022	15	10	10	10	11.2
80335	1133	5	10	5	10	7.5
VS 25	1147	15	15	15	15	15.0
SC POLY 2	1156	10	10	10	5	8.7
78T4	1136	5	10	10	5	7.5
COMSEL	1155	5	5	10	5	6.2
OT 78-2	1126	5	15	10	5	8.7
CA 838	1131	10	5	10	5	7.5
79003	1151	15	10	15	10	12.5
LSC 215	1140	10	15	20	15	15.0
HARDY	1153	1	5	1	1	2.0
OAC 80-105	1135	15	15	15	10	13.7
O2 042	1129	20	15	10	5	12.5
OSECO 79-12,5	1150	15	5	10	10	10.0
OSECO 75T12	1119	5	5	10	5	6.2
OT 78-1	1125	5	5	10	10	7.5
IROQUOIS	1501	15	10	15	10	12.5
SARANAC	1001	20	20	20	15	18.7
APOLLO II	1138	10	10	15	10	11.2
8015	1145	10	10	15	10	11.2
SC 3704	1154	5	10	5	1	5.2
MEAN		9.9	9.9	10.2	8.5	9.6

LSD (0.05) = 4.1
CV % = 20.8

TABLE 3 - ALFALFA YIELD TRIAL. EXPERIMENT 1082, RIDGETOWN
LODGING , 1983 AT CUT 1, SEEDING, 1982

ENTRY	CODE	REPS				MEAN
		1	2	3	4	
CA744	1148	3	4	4	4	3.7
NAPB 90	1128	2	3	2	3	2.5
OT 81-1	1152	2	3	3	3	2.7
79172	1134	3	3	3	3	3.0
PIONEER 526	1127	1	4	3	3	2.7
80334	1124	3	4	3	2	3.0
LSC 214	1139	3	3	4	3	3.2
LSC 216	1149	3	3	4	4	3.5
CA 670-71	1123	3	4	4	4	3.7
WL 315	1121	3	4	3	2	3.0
GEMINI	1143	1	2	1	1	1.2
77-8 CAB	1122	4	3	3	3	3.2
OSECO 79-9,5	1142	2	4	3	3	3.0
PION 520	1504	2	2	3	3	2.5
79005	1144	2	2	2	2	2.0
UCO 10	1146	2	3	2	3	2.5
FAR 1-14	1137	3	3	3	3	3.0
WL 221	1130	4	2	4	3	3.2
77T1	1132	3	4	3	4	3.5
ARMOR	1120	2	4	4	3	3.2
CIMARRON	1141	3	4	3	3	3.2
BANNER	1022	2	2	2	2	2.0
80335	1133	2	3	3	3	2.7
VS 25	1147	3	4	3	3	3.2
SC POLY 2	1156	4	2	4	3	3.2
78T4	1136	2	3	2	3	2.5
COMSEL	1155	3	3	3	3	3.0
OT 78-2	1126	2	3	2	3	2.5
CA 838	1131	4	3	4	4	3.7
79003	1151	3	2	2	2	2.2
LSC 215	1140	4	4	2	3	3.2
HARDY	1153	3	3	3	2	2.7
OAC 80-105	1135	1	2	1	1	1.2
02 042	1129	2	4	2	3	2.7
OSECO 79-12,5	1150	2	2	3	3	2.5
OSECO 75T12	1119	3	4	4	4	3.7
OT 78-1	1125	3	4	4	3	3.5
IROQUOIS	1501	2	3	4	3	3.0
SARANAC	1001	2	2	2	2	2.0
APOLLO II	1138	3	3	3	3	3.0
8015	1145	3	3	2	2	2.5
SC 3704	1154	1	1	3	2	1.7
MEAN		2.6	3.0	2.9	2.8	2.8

LSD (0.05) = 0.88

CV % = 22

TABLE 4 - EARLY ALFALFA YIELD TRIAL. EXPERIMENT 1089, RIDGETOWN
VIGOR, JUNE 9, 1983

TYPE	CODE	REPS				MEAN
		1	2	3	4	
UCO 10	1146	2	2	2	1	1.75
SC 3704	1154	2	3	3	2	2.50
78T4	1136	2	1	1	1	1.25
OAC81-120	1166	1	1	1	1	1.00
SARANAC	1001	2	1	1	1	1.25
GEMINI	1143	2	2	1	1	1.50
LSC 214	1139	2	1	1	1	1.25
CIMARRON	1141	3	2	3	2	2.50
79005	1144	4	4	3	3	3.50
LSC 215	1140	1	2	1	1	1.25
OAC81-119R	1168	2	2	1	1	1.50
8015	1145	2	2	2	2	2.00
CA 760	1164	2	1	1	1	1.25
LSC 309	1162	2	1	1	1	1.25
CW 140	1159	2	1	2	1	1.50
OSX2-9113	1163	2	1	2	1	1.50
OT 81-1	1152	2	1	1	1	1.25
WWB 31	1157	3	3	3	2	2.75
NAPB110	1160	2	1	2	2	1.75
APOLLO II	1138	3	2	2	2	2.25
NAPB108	1161	2	2	1	1	1.50
02-1981-1	1158	2	2	2	1	1.75
TRUMPETOR	1094	3	3	3	2	2.75
HUNTER	1067	2	1	2	1	1.50
VS 25	1147	3	3	2	2	2.50
OSECO 79-9,5	1142	3	2	3	2	2.50
BANNER	1022	4	3	4	3	3.50
OAC 80-105	1135	4	3	3	3	3.25
81T21	1165	3	2	1	1	1.75

MEAN 2.4 1.9 1.9 1.5 1.92

LSD(0.5) = 0.63

CV % = 28.03

SCALE: 1(Good) to 9(Poor)

TABLE 5 - MEDIUM ALFALFA YIELD TRIAL. EXPERIMENT 1090, RIDGETOWN
VIGOR, JUNE 9, 1983

TYPE	CODE	REPS				MEAN
		1	2	3	4	
GLORY	1060	4	2	1	1	2.00
79001	1170	5	3	2	2	3.00
OSX2-9114	1175	5	3	1	3	3.00
OT 83-3	1177	5	3	1	3	3.00
80012	1171	5	3	1	1	2.50
IROQUOIS	1501	7	5	5	5	5.50
79003	1151	7	6	5	5	5.75
SC POLY 2	1156	5	1	2	1	2.25
VW 33-2	1176	7	5	3	5	5.00
XAF 12	1169	7	4	3	4	4.50
LSC 216	1149	5	2	1	3	2.75
PIONEER 520	1504	7	6	4	4	5.25
CA 744	1148	5	2	2	1	2.50
LSC308	1174	5	4	2	2	3.25
COMSEL	1155	4	3	1	2	2.50
CW 241	1172	5	4	2	1	3.00
OSECO 79-12,5	1150	5	5	2	5	4.25
LSC110	1173	7	6	5	6	6.00

MEAN 5.6 3.7 2.4 3.0 3.67

LSD (0.5) = 2.17

CV % = 45.64

SCALE: 1(Good) to 9(Poor)

Table 6 Alfalfa yield trial (Early). Experiment 1089
Ridgetown 1983 yield data. Seeded 1983

Entry	<u>Dry matter yield (kg/ha)</u>		Total (kg/ha)
	Cut 1	Cut 2	1983
OT 81-1	3395	3674	7068
CW 140	3273	3682	6955
LSC 215	3389	3510	6899
78T4	3292	3545	6837
OSX2-9113	3168	3639	6807
Saranac	3207	3599	6806
NAPB 108	3168	3575	6743
Hunter	3083	3600	6682
UCO 10	3080	3586	6665
81T21	2953	3645	6598
02-1981-1	2946	3641	6587
LSC 309	3100	3479	6579
LSC 214	3184	3361	6545
Gemini	3001	3458	6459
8015	2803	3626	6429
79-9,5	3031	3391	6421
CA 760	2976	3430	6407
NAPB 110	2789	3613	6402
Apollo II	2739	3560	6299
OAC 81-120	3042	3254	6296
Cimarron	2740	3492	6232
VS 25	2630	3559	6189
OAC 81-119R	2683	3381	6064
Trumpetor	2529	3393	5922
79005	2434	3450	5884
Banner	2300	3361	5660
SC 3704	2912	2672	5584
WWB 31	2139	3336	5476
OAC 80-105	2161	3096	5257
LSD 5%:	483	264	530
Mean :	2902	3469	6371
C.V. % :	11.8	5.4	5.9

Table 7 Alfalfa yield trial (Medium). Experiment 1090
Ridgetown 1983 yield data. Seeded 1983

Entry	Dry matter yield (kg/ha)		Total (kg/ha) 1983
	Cut 1	Cut 2	
Glory	3408	3742	7150
CA 744	2958	3484	6443
LSC 216	2875	3501	6377
80012	2927	3388	6315
SC Poly 2	2832	3451	6283
79001	2835	3405	6241
OSX2-9114	2682	3362	6044
CW 241	2619	3303	5921
XAF 12	2447	3421	5868
OT-83-3	2584	3256	5840
Comsel	2639	3152	5791
LSC 308	2353	3423	5776
79-12,5	2379	3175	5554
520	2160	3344	5504
Iroquois	1969	3197	5167
VW 33-2	2019	3107	5126
79003	1625	3061	4686
LSC-110	1512	2923	4435
LSD 5%:	591	325	832
Mean :	2490	3316	5807
C.V.% :	16.7	6.9	10.1

Table 8 Alfalfa yield trial (Early). Experiment 6488
Kapuskasings 1983 yield data. Seeded 1981

<u>Persistence Data</u>			
<u>Entry</u>	<u>Dry Matter Yield (kg/ha) 1983</u>		<u>Total (kg/ha)</u>
	Cut 1	Cut 2	1983
OAC 77-101	2886	2749	5635
CW 940	2678	2672	5351
Peak	2385	2813	5198
78013	2517	2440	4957
WL 315	2359	2444	4802
Multileaf	2056	2734	4791
79049	2255	2504	4759
OAC 76-105	1907	2840	4747
LSC 003-E	1921	2784	4706
77-8 CAB	2370	2285	4654
Saranac	2104	2457	4560
LSC 008-E	2281	2249	4530
LSC 004-E	1957	2508	4465
WL 313	2017	2431	4448
130	1961	2483	4425
CA 670-71	1908	2513	4421
Citation	2030	2100	4130
Armor	1591	2394	3985
Banner	1719	2215	3933
75T12	1624	2166	3790
OT 78-1	1443	2275	3718
80334	1607	2002	3609
LAB 75	1361	2211	3572
Trumpetor	1311	2050	3361
OT 78-2	1125	1782	2908
LSD 5%:	973	707	1513
Mean :	1975	2403	4378
C.V.% :	23.9	14.3	16.7

TABLE 9 - EARLY ALFALFA VARIETY TRIAL. EXPERIMENT 6488
WINTER KILL % , JULY 8, 1983

TYPE	CODE	REPS				MEAN
		1	2	3	4	
CW 940	1100	8.5	25.0	25.0	95.0	38.38
77-8 CAB	1122	15.0	37.5	62.5	37.5	38.13
79049	1101	42.5	37.5	65.0	30.0	43.75
SARANAC	1001	32.5	37.5	70.0	95.0	56.25
LSC 008-E	1103	50.0	22.5	85.0	52.5	52.50
76-105	1097	47.5	27.5	60.0	95.0	57.50
78013	1095	22.5	25.0	35.0	35.0	29.38
MULTILEAF	1099	27.5	35.0	27.5	32.5	30.63
77-101	1098	25.0	15.0	20.0	32.5	23.13
PEAK	1105	55.0	22.5	57.5	65.0	50.00
CA 670-71	1123	37.5	37.5	25.0	95.0	48.75
WL 315	1121	25.0	25.0	45.0	95.0	47.50
BANNER	1022	62.5	27.5	77.5	95.0	65.63
WL 313	1096	50.0	20.0	37.5	95.0	50.63
DEKALB 130	1078	55.0	35.0	40.0	95.0	56.25
LSC 003-E	1104	62.5	32.5	70.0	97.5	65.63
OT 78-1	1125	60.0	45.0	45.0	77.5	56.88
78015	1094	80.0	47.5	55.0	47.5	57.50
LAB 75	1106	85.0	37.5	45.0	95.0	65.63
LSC 004-E	1102	67.5	37.5	70.0	95.0	67.50
75T12	1119	70.0	32.5	77.5	85.0	66.25
OT 78-2	1126	80.0	77.5	40.0	82.5	70.00
ARMOR	1120	85.0	37.5	57.5	55.0	58.75
80334	1124	90.0	37.5	85.0	95.0	76.88
CITATION	1034	92.5	20.0	47.5	27.5	46.88
MEAN		53.14	33.40	53.00	71.70	52.91
LSD (0.05) =	31.24					
CV % =	36.41					

TABLE 10- MEDIUM ALFALFA LICENSING TRIAL. EXPERIMENT 6466
WINTER KILL %, JULY 8, 1983, KAPUSKASING, SEEDED
1981

TYPE	CODE	1	2	3	4	MEAN
CW 927	1111	80.0	87.5	85.0	97.5	87.50
LSC 007	1115	87.5	82.5	92.5	97.5	90.00
MLM 02042	1129	85.0	85.0	87.5	97.5	88.75
LSC 7801	1113	97.5	92.5	90.0	97.5	94.38
MLM 2025	1116	95.0	37.5	67.5	97.5	74.38
LAB 78	1117	87.5	72.5	90.0	97.5	86.88
IROQUOIS	1501	90.0	82.5	85.0	97.5	88.75
520	1504	92.5	65.0	87.5	97.5	85.63
79172	1134	87.5	47.5	65.0	97.5	74.38
PIONEER 526	1127	90.0	75.0	92.5	97.5	88.75
CA 838	1131	87.5	35.0	82.5	96.0	75.25
LSC 006	1114	95.0	80.0	92.5	97.5	91.25
77TI	1132	87.5	85.0	92.5	96.0	90.25
79161	1107	92.5	75.0	82.5	97.5	86.88
NAPB 90	1128	95.0	52.5	82.5	96.0	81.50
ONEIDA	1109	92.5	62.5	72.5	97.5	81.25
76-102	1108	97.5	82.5	82.5	97.5	90.00
80335	1133	95.0	87.5	92.5	97.5	93.13
79051	1110	92.5	37.5	85.0	96.0	77.75
CW 6036	1112	95.0	72.5	77.5	97.5	85.63
FAR 1-14	1137	92.5	87.5	92.5	97.5	92.50
WL 221	1130	90.0	62.5	87.5	96.5	84.13
LUZ 84	1118	95.0	67.5	90.0	97.5	87.50
PIONEER 524	1073	95.0	85.0	87.5	97.5	91.25
MEAN		91.46	70.83	85.10	97.21	86.15
LSD (0.05) =	14.68					
CV % =	10.49					

TABLE 11- EARLY ALFALFA PERFORMANCE TRIAL 1981. EXPERIMENT 6487
WINTER KILL % , JULY 8, 1983

TYPE	CODE	1	2	3	4	MEAN
ANCHOR	1003	45.0	5.0	12.5	20.0	20.63
ANGUS	1018	35.0	8.5	15.0	45.0	25.88
THOR	1005	70.0	12.5	37.5	25.0	36.25
APOLLO	1054	67.5	20.0	50.0	80.0	54.38
VISTA	1053	47.5	15.0	25.0	47.5	33.75
PRIMAL	1040	35.0	17.5	35.0	57.5	36.25
CITATION	1034	10.0	10.0	15.0	20.0	13.75
PACER	1045	37.5	25.0	45.0	60.0	41.88
CERES	1030	32.5	27.5	35.0	85.0	45.00
CLASSIC	1069	22.5	15.0	37.5	42.5	29.38
ANSWER	1065	25.0	25.0	40.0	60.0	37.50
TRIDENT	1064	32.5	22.5	52.5	52.5	40.00
SARANAC	1001	20.0	10.0	22.5	20.0	18.13
BANNER	1022	52.5	12.5	17.5	70.0	38.13
MEAN		38.04	16.14	31.43	48.93	33.63
LSD (0.05)	= 21.51					
CV %	= 38.71					

TABLE 12- MEDIUM ALFALFA PERFORMANCE TRIAL. EXPERIMENT 6465
WINTER KILL % , JULY 8, 1983

TYPE	CODE	REPS				MEAN
		1	2	3	4	
ALGONQUIN	1017	20.00	11.00	17.50	17.50	16.50
TITAN	1719	25.00	12.50	32.50	67.50	34.38
VERNAL	1502	22.50	20.00	40.00	27.50	27.50
WEEVLCHEK	1503	45.00	25.00	22.50	55.00	36.88
VALOR	1033	40.00	20.00	20.00	55.00	33.75
WL 215	1510	45.00	30.00	42.50	60.00	44.38
PICKSTAR	1025	47.50	22.50	35.00	57.50	40.63
MAGNUM	1050	47.50	32.50	25.00	55.00	40.00
FUTURA	1059	30.00	22.50	27.50	52.50	33.13
120	1071	37.50	25.00	20.00	40.00	30.63
IROQUOIS	1501	22.50	15.00	20.00	15.00	18.13
520	1504	45.00	20.00	20.00	20.00	26.25
524	1073	60.00	22.50	22.50	75.00	45.00
MEAN		37.50	21.42	26.54	45.96	32.86
LSD (0.05) =	17.46					
CV % =	32.07					

Table 13 Alfalfa yield trial (Early). Experiment 2822
Guelph 1983 yield data. Seeded 1981

PERSISTANCE DATA ONLY

Entry	Dry matter yield (kg/ha) 1983		Total (kg/ha) 1983
	Cut 1	Cut 2	
OAC 77-101	4433	4523	8956
CA 670-71	3686	4841	8527
PEAK	3732	4701	8433
Multileaf	3931	4499	8431
130	3361	4860	8222
Citation	3847	4365	8212
80334	3213	4974	8187
78013	3895	4187	8082
LSC 004-E	3605	4432	8038
75T12	3086	4879	7965
LAB 75	3014	4926	7941
OAC 76-105	3216	4679	7895
WL 315	3533	4353	7886
LSC 003-E	3294	4526	7819
CW 940	2962	4809	7771
Armor	3001	4744	7745
77-8 CAB	3222	4521	7743
LSC 008-E	3301	4275	7576
WL 313	3521	3974	7495
OT-78101	2937	4515	7452
Trumpetor	2965	4468	7433
79049	3094	4302	7397
Saranac	2732	4529	7261
Banner	2688	4437	7125
OT-7812	2187	4195	6382
LSD 5%:	702	564	928
Mean :	3298	4541	7839
C.V.% :	15.1	8.8	8.4

Table 14 - Alfalfa yield trial (Early) Experiment 2322.
Guelph, Seeded 1981. Spring vigor data

<u>Entry</u>	<u>Spring Vigour*</u> (May 8/83)
OAC 77-101	5
Multileaf	5
Peak	5
Citation	5
78013	5
WL313	4
OAC 76-105	4
LSC004-E	4
Armor	4
WL315	4
77-8 CaB	4
Ca670-71	4
80334	4
Saranac	4
CW940	3
79049	3
LSC008-E	3
LSC003-E	3
Lab 75	3
DeKalb 130	3
75T12	3
Banner	3
78015	2
OT-78-1	2
OT-78-2	2

* Rating: 1(poor) to 9(good)

Table 15 Alfalfa yield trial (Medium). Experiment 2823
Guelph 1983 yield data. Seeded 1981

PERSISTENCE DATA ONLY

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

Table 16 Alfalfa yield trial (Medium). Experiment 2823.
Guelph, Seeded 1981. Spring vigor data

<u>Entry</u>	<u>Spring Vigour* (May 18, 1983)</u>
Pioneer 526	5.5
Oneida	6.0
CW6306	5.0
LSC007	5.0
Luz 84	5.0
WL221	5.0
Ca 838	5.0
520	5.0
OAC 76-102	4.5
NLM02042	4.5
Iroquois	4.5
79-051	4.0
LSC7801	4.0
LSC006	4.0
Lab 78	4.0
NAPB90	4.0
77T1	4.0
80335	4.0
79172	4.0
FARI-14	4.0
CW927	3.5
79161	3.0
Pioneer 524	3.0
NLM 02025	2.0

* Rating: 1 (poor) to 9 (good)

Table 17 Alfalfa yield trials (Early). Seeded 1983
1 cut dry matter yield (kg/ha), 1983

Entry	Ottawa	Kemptville	Kapuskasing	Total
NAPB 110	4231	2372	2484	9087
Banner	3798	2679	1871	8343
Saranac	3734	2452	1994	8180
OAC 80-105	3670	2258	1688	7616
81T21	3614	2343	2256	8213
Apollo II	3612	2364	1770	7746
OAC 81-120	3593	2547	2305	8445
Cimarron	3575	2421	1855	7851
CA 760	3529	2163	2312	8004
LSC 215	3455	2620	2246	8321
78T4	3386	2288	1742	7416
79005	3383	2884	2027	8294
SC 3704	3346	2458	2082	7886
8015	3344	2524	2444	8312
OT 81-1	3322	2708	2210	8240
OAC 81-119R	3320	2174	1872	7366
LSC 214	3298	2387	1987	7672
LSC 309	3277	2368	2460	8105
VS 25	3245	2604	1721	7570
Hunter	3184	2450	2297	7931
WWB 31	3120	2289	1552	6961
79-9,5	3120	2528	1908	7556
OSX2-9113	3075	2320	2017	7412
Gemini	3057	2355	2024	7436
CW 140	2969	2550	2293	7812
02-1981-1	2879	2684	1825	7388
UCO 10	2879	2569	2064	7512
Trumpetor	2852	2800	1726	7378
NAPB 108	2544	2350	2161	7055
LSD 5%:	873	370	1013	
Mean :	3325	2466	2044	
C.V.% :	18.7	10.7	35.2	

Table 18 Alfalfa yield trials (Medium). Seeded 1983
1 cut dry matter yield (kg/ha), 1983

Entry	Ottawa	Kemptville	Kapuskasing	Total
SC Poly 2	3900	2428	1785	8113
CW 241	3789	2673	1525	7987
XAF 12	3646	2419	1371	7436
80012	3583	2428	1405	7416
Comsel	3560	2549	1579	7688
LSC 216	3390	2543	1903	7836
79-12,5	3313	2468	1674	7455
CA 744	2958	2214	1414	6586
79001	2950	2310	1491	6751
LSC 110	2887	2451	1085	6423
Glory	2876	2707	1808	7391
OSX2-9114	2836	2431	1498	6785
79003	2836	2526	1190	6552
520	2828	2650	1291	6769
OT-83-3	2820	2545	2028	7393
Iroquois	2668	2601	1407	6676
LSC 308	2635	2203	1328	6166
VW 33-2	2350	2448	1439	6237
LSD 5%:	1523	281	258	
Mean :	3101	2477	1512	
C.V.% :	34.5	8.0	12.0	

TABLE 19 - EARLY ALFALFA LICENSING. EXPERIMENT 6489
PLANT VIGOR , AUG 2, 1983, KAPUSKASING, SEEDED, 1983

TYPE	CODE	REPS				MEAN
		1	2	3	4	
WWB 31	1157	8.0	7.5	7.0	9.0	7.88
02-1981-1	1158	7.5	9.0	8.0	7.5	8.00
CW 140	1159	9.0	9.0	9.0	9.0	9.00
NAPB 110	1160	9.0	8.5	9.0	9.0	8.88
NAPB 108	1161	9.0	8.5	9.0	9.0	8.88
HUNTER	1067	9.0	9.0	9.0	9.0	9.00
LSC 309	1162	8.5	9.0	9.0	8.5	8.75
OSX 2-9113	1163	8.5	9.0	8.5	8.5	8.63
CA 760	1164	8.5	9.0	9.0	8.5	8.75
81T21	1165	9.0	9.0	9.0	9.0	9.00
OAC 81-120R	1166	9.0	9.0	8.5	9.0	8.88
TRUMPETOR	1094	8.5	7.0	8.5	8.5	8.13
OAC 81-119R	1168	7.0	8.0	8.0	7.0	7.50
OT 81-1	1152	9.0	9.0	8.5	9.0	8.88
SC 3704	1154	7.5	7.0	8.0	7.5	7.75
UCO 10	1146	8.5	8.5	8.0	8.5	8.38
8015	1145	8.5	9.0	9.0	8.5	8.75
GEMINI	1143	8.5	8.5	8.5	8.5	8.50
79005	1144	8.5	9.0	9.0	8.5	8.75
BANNER	1022	8.5	7.5	8.5	8.5	8.25
OSECO 79-9-5	1142	6.5	9.0	7.5	6.5	7.38
CIMARRON	1141	8.5	9.0	9.0	8.5	8.75
LSC 214	1139	8.5	8.5	8.5	8.5	8.50
LSC 215	1140	8.5	9.0	8.5	8.5	8.63
APOLLO II	1138	7.5	8.5	9.0	7.5	8.13
SARANAC	1001	8.5	9.0	8.5	8.5	8.63
78T4	1136	8.0	9.0	8.5	8.0	8.38
OAC 80-105	1135	4.5	8.5	8.5	4.5	6.50
VS 25	1147	6.5	8.5	8.5	6.5	7.50
MEAN		8.16	8.59	8.57	8.19	8.375
LSD (0.05) =	1.03					
CV % =	7.59					

TABLE 20 - MEDIUM ALFALFA LICENSING. EXPERIMENT 6468
PLANT VIGOR , AUG 2, 1983, KAPUSKASING, SEEDED 1983

TYPE	CODE	REPS				MEAN
		1	2	3	4	
KAF 12	1169	7.5	7.5	8.5	8.0	7.88
79001	1170	8.0	8.5	8.5	8.0	8.25
80012	1171	8.0	8.0	8.0	8.5	8.13
CW 241	1172	8.0	8.0	8.0	8.5	8.13
LSC 110	1173	5.0	5.5	6.5	7.0	6.00
LSC 308	1174	8.0	8.0	8.5	7.5	8.00
OSX 2-9114	1175	8.0	8.0	8.0	8.5	8.13
COMSEL	1155	7.5	8.5	8.5	8.5	8.25
SC POLY 2	1156	8.0	8.0	8.5	8.5	8.25
79003	1151	7.5	7.0	7.5	7.0	7.25
OSECO 79-12-5	1150	8.0	7.5	8.0	7.5	7.75
LSC 216	1149	8.0	8.5	9.0	8.5	8.50
CA 744	1148	7.5	8.5	8.5	8.0	8.13
GLORY	1060	8.0	8.0	8.5	8.5	8.25
VW 33-2	1176	7.5	8.0	9.0	7.5	7.75
IROQUOIS	1501	8.0	7.5	8.5	8.0	8.00
520	1504	7.5	6.5	7.0	7.0	7.00
OT 83-3	1177	8.5	8.5	9.0	8.5	8.63
MEAN		7.69	7.78	8.17	7.97	7.903
LSD (0.05) =	0.58					
CV % =	4.51					

TABLE 21 - SPREADING ALFALFA TRIAL. EXPERIMENT 6467
WINTER KILL % , JULY 8, 1983

TYPE	CODE	REPS				MEAN
		1	2	3	4	
RANGELAND		55.0	30.0	45.0	10.0	35.00
RAMBLER		55.0	27.5	57.5	12.5	38.13
SPREDOR	1090	60.0	30.0	52.5	10.0	38.13
PROWLER		70.0	17.5	42.5	17.5	36.88
IROQUOIS	1501	55.0	15.0	40.0	10.0	30.00
LEO	7001	10.0	10.0	10.0	10.0	10.00
MEAN		50.83	21.67	41.25	11.67	31.35
LSD (0.05) =	17.96					
CV % =	32.93					

Table 22 Alfalfa Yield Trial (Early) Experiment 3043
Kemptville 1982 yield data for persistence. Seeded 1980

Entry	<u>Dry Matter Yield (kg/ha) 1982</u>			
	Cut 1	Cut 2	Cut 3	Total
532	3480	2930	3334	9744
Primal	3595	2492	3120	9207
OAC 78-1	3202	2856	3113	9171
OAC 76-105	3279	2738	3134	9151
LSC 004-E	3249	2659	3191	9099
Turbo (CW940)	3385	2493	3036	8913
Peak	2951	2582	3328	8861
Saranac	3084	2667	3087	8838
78013	3130	2730	2905	8766
WL313	3257	2439	3043	8739
Epic	2999	2606	3074	8680
Lab 75	2989	2488	3173	8650
79049	3108	2391	3140	8640
Regal	3051	2393	3110	8554
Honeoye	3112	2343	2947	8402
Banner	2961	2326	3094	8381
G7730	3062	2208	3047	8317
LSC 008E	2989	2196	3109	8294
Multileaf	3135	2328	2827	8289
OAC 77-101	2885	2359	2945	8189
CW 27	2785	2308	2971	8064
WL 312	2837	2224	2934	7995
78015 (Trumpetor)	2733	2103	2839	7674
LSC 003E	2837	1942	2647	7426
Classic	2660	1903	2770	7334
CW 62	2297	1896	2763	6956
OAC 77-2	2243	1580	2314	6137
LSD 5%:	594	606	417	1398
Mean :	3011	2377	3000	8388
CV% :	14.01	18.12	9.89	11.84

Location: Kemptville College of
Agricultural Technology

Plot Size: 1.5 m x 6.0 m

Design: Randomized complete block

Replications: 4

TABLE 23- RED CLOVER TRIAL. EXPERIMENT 6564
WINTER KILL % , JULY 8, 1983

TYPE	CODE	REPS				MEAN
		1	2	3	4	
ARLINGTON	4023	82.5	85.0	92.5	62.5	80.63
BYTOWN	4015	50.0	85.0	80.0	72.5	71.88
LAKELAND	4002	87.5	65.0	87.5	70.0	77.50
OTTAWA	4003	90.0	70.0	82.5	82.5	81.25
FLOREX	4017	70.0	70.0	72.5	72.5	71.25
YKYC	4035	87.5	90.0	87.5	37.5	88.13
W 116	4036	77.5	82.5	85.0	80.0	81.25
W 115	4034	42.5	90.0	75.0	62.5	67.50
KUHN	4037	80.0	90.0	92.5	70.0	83.13
PROSPER	4027	50.0	57.5	55.0	30.0	53.13
MEAN		71.75	78.5	81.0	71.0	73.56
LSD (0.05) =	16.78					
CV % =	13.25					

TABLE 24 - MARITIME RED CLOVER TRIAL. EXPERIMENT 6565
PLANT VIGOR , AUG 2, 1983

TYPE	CODE	REPS				MEAN
		1	2	3	4	
FLOREX	4017	8.5	8.5	9.0	8.5	8.63
CHANGINS		8.5	8.0	9.0	8.5	8.50
CUBILETKE		7.5	7.5	8.0	7.5	7.63
HVUZOWSKE		8.0	6.5	8.5	8.0	9.13
MARINO		8.0	8.0	8.5	8.0	8.13
PROSPER	4027	8.5	8.5	9.0	8.5	8.63
TRISTAN	4029	8.5	8.5	9.0	8.0	8.50
RENOVA		8.5	7.0	7.5	7.5	7.63
MEAN		8.25	7.82	8.56	8.06	8.172
LSD (0.05) =	0.62					
CV % =	4.46					

TABLE 25 - TREFOIL VARIETY TRIAL. EXPERIMENT 6514
WINTER KILL % , JULY 8, 1983

TYPE	CODE	REPS				MEAN
		1	2	3	4	
MAITLAND	7010	87.5	67.5	72.5	72.5	75.00
VIKING	7004	85.0	65.0	80.0	62.5	73.13
LEO	7001	37.5	17.5	37.5	12.5	26.25
EMPIRE	7003	92.5	60.0	92.5	72.5	79.38
PS 79055	7032	52.5	37.5	65.0	22.5	44.38
MLM 01004	7033	40.0	17.5	27.5	12.5	24.38
DAWN	7008	55.0	30.0	40.0	42.5	41.88
MEAN		64.29	42.14	59.29	42.50	52.05
LSD (0.05) =	12.23					
CV % =	13.69					

TABLE 26 - ORCHARD GRASS VARIETY TRIAL. EXPERIMENT 6091
PLANT VIGOR , AUG 2, 1983

TYPE	CODE	REPS				MEAN
		1	2	3	4	
HALLMARK	3027	7.0	7.5	8.5	8.0	7.75
JUNO	3001	6.5	7.0	8.5	8.0	7.50
INA	3024	8.0	7.0	8.5	8.0	7.38
NAPIER	3009	8.0	7.5	8.0	8.0	7.88
SUMAS	3046	8.0	7.0	8.5	7.5	7.75
KAY	3003	8.5	8.0	8.5	8.0	8.25
K8-122	3064	7.0	7.0	8.0	7.5	7.38
ORION	3053	7.0	7.0	8.0	8.0	7.50
14011	3063	7.5	7.5	7.5	8.0	7.63
MEAN		7.50	7.23	8.22	7.89	7.722
LSD (0.05) =	0.67					
CV % =	5.14					

TABLE 27 - TIMOTHY PERFORMANCE TRIAL. EXPERIMENT 6103
PLANT VIGOR, AUG 2, 1983

TYPE	CODE	REPS				MEAN
		1	2	3	4	
CLIMAX	6002	8.0	8.5	8.5	8.0	8.25
TIMFOR	6040	8.0	8.0	8.5	8.0	8.13
BASHO	6009	7.5	8.0	8.5	8.0	8.00
CHAMP	6005	7.5	8.0	9.0	8.5	8.25
ITASCA	6026	7.5	7.5	8.0	7.5	7.63
PRONTO	6037	7.0	7.5	8.5	7.5	7.63
RICHMOND	6050	8.5	8.0	8.5	8.0	8.25
SALVO	6062	8.0	7.5	8.5	8.0	8.00
TORO	6030	8.5	8.0	8.5	8.0	8.25
MEAN		7.83	7.89	8.50	7.94	8.042
LSD (0.05) =	0.48					
CV % =	3.58					

TABLE 28 - TIMOTHY VARIETY TRIAL. EXPERIMENT 6102
PLANT VIGOR , AUG 2, 1983

TYPE	CODE	REPS				MEAN
		1	2	3	4	
81006	6087	4.5	7.5	8.0	8.0	7.00
BCSV0907	6086	5.0	8.0	8.5	7.0	7.13
MINO	6082	3.0	1.0	8.0	4.5	4.13
BODIN	6083	7.5	8.0	8.5	7.5	7.88
BARTIME	6084	6.5	5.5	8.0	4.5	6.13
CLIMAX	6002	8.5	7.5	8.5	8.0	8.13
TIMFOR	6040	8.5	8.0	8.5	8.0	8.25
MEAN		6.21	6.50	8.29	6.79	6.946
LSD (0.05) =	2.30					
CV % =	19.29					