

FORAGE CROP INVESTIGATIONS - ONTARIO

1975 Report on Field Trials of Varieties and Mixtures



Research Station, Ottawa

✓ Experimental Farm, Kapuskasing

✓ Experimental Farm, Thunder Bay

Kemptville College of Agricultural Technology, Kemptville

✓ New Liskeard College of Agricultural Technology, New Liskeard

Ontario Agricultural College, University of Guelph, Guelph

Ridgetown College of Agricultural Technology, Ridgetown

Forage Crop Investigation
1975

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This Forage Investigation Report contains data and information collected from Forage Variety and Production trials conducted under the auspices of the Ontario Forage Crop Committee. Data from Canada Agriculture, Ontario Ministry of Agriculture and Food and the University of Guelph Agricultural Research Stations are included.

Generally, only data collected in 1975 are included. However, in some cases data from previous years are included. Thus the data for any one variety or management practice contained herein cannot be considered as complete or final.

The report is published for use of the members of the Committee and other persons who are interested in and concerned with the evaluation of forage variety and production practices. The data contained herein are considered confidential in that interpretation and publication of said data is not permitted without permission of the Ontario Forage Crop Committee.

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Alfalfa Varieties - Early Maturity, November, 1975

Licensed and Recommended, 1975

Anchor	Saranac
Angus	Thor

Under Test

<u>Variety</u>	<u>No. of Station Years Data</u>	<u>Entered by</u>
Citation (R.P. 103)	7	N. Am. Plant Br.
Nuggett	7	N. Am. Plant Br.
Pioneer 530	9	Pioneer
Pacer	3	OSECO
WL 318	3	OSECO
CW 5	3	Cal West
131	3	DeKalb
Honeoye	3	Ont. F. Crops Com.
Saranac AR	3	Ont. F. Crops Com.
Maris Phoenix	3	N. Am. Plant Br.
KI-10	3	National-NK
WL 311	3	OSECO
KI-7	3	National-NK
Vista	0	Pickseed
Apollo	0	OSECO
Victor	0	OSECO
Olympic	0	OSECO

Final Disposition, November, 1975:

Citation, Nuggett and Pioneer 530 - re-examine data available in
November,
1976.

Alfalfa Varieties - Medium Maturity, November, 1975

Licensed and Recommended, 1975

Algonquin	Weevlchek
Iroquois	WL 202
Titan	WL 210
	WL 215
Vernal	520

Under Test

<u>Variety</u>	<u>No. of Station Years Data</u>	<u>Entered by</u>
Klondike	13	Maple Leaf Mills
Aztec	6	Asgrow Seed Co.
Kodiak ✓	6	Asgrow Seed Co.
Valor ✓	6	OSECO
K3-11	2	National-NK
Agate	2	Ont. F. Crops Com.
Polar 1	2	National-NK
Ramsay	2	Ont. F. Crops Com.
Pioneer 521	0	Pioneer
MLM 02015	0	Maple Leaf Mills
MLM 02016	0	Maple Leaf Mills
MLM 02017	0	Maple Leaf Mills
K3-15	0	National-NK

Final Disposition, November 14, 1975:

Kodiak, Valor - Support for licensing and recommend

Klondike - Support for license, recommend when seed available;

Aztec - Re-examine data available, November 1976.

ONTARIO ALFALFA TRIALS

- 1973 Seedings: a. Early Cultivars: Saranac, Angus, Thor, Anchor EA91, RP103(Citation), Nuggett.
b. Medium Cultivars: Vernal, Iroquois, Weevlcheck, Titan, WL202, Algonquin, 520, WL215, Aztec, Valor, Kodiak.
c. Test Locations: Ridgetown, New Liskeard.
- 1974 Seedings: a. Early Cultivars: Saranac, Angus, Thor, Anchor, RP103(Citation), Nuggett, 530, WL311, Maris Phoenix, 131, K1-7, K-10, CW5, Pacer, Saranac A.R., Honeoye.
b. Medium Cultivars: Vernal, Iroquois, Weevlcheck, Titan, WL202, WL210, 520, Algonquin, Aztec, Valor, Kodiak, Klondike, Polar-1 (P-18), K3-11, Agate, Ramsey, WL318.
→ c. Test Locations: Guelph, Thunderbay, Ottawa.
- 1975 Seedings: a. Early Cultivars: Saranac, Anchor, Thor, Angus (new check!), WL311, WL318, K1-7, K1-10, Maris Phoenix, 131, CW5, Pacer, Saranac A.R., Honeoye, Vista, Apollo, Victor, Olympic.
b. Medium Cultivars: Vernal, Iroquois (new check), Weevlcheck, Titan, WL202, WL210, WL215, 520, Algonquin, EA-21, Polar-1, K3-11, Agate, Ramsey, 521, K3-15, MLM 02015, MLM 02016, MLM 02017.
c. Test Locations: Ridgetown, Ottawa, Kapuskasing.

Cultivars eligible for consideration for licensing in the fall of 1976:

Early: WL311, Maris Phoenix, 131, K1-7, K1-10, CW5, Pacer, Saranac A.R., Honeoye, WL318.

Medium: Polar 1, K3-11, Agate, Ramsey.

EARLY ALFALFA TESTS

1973 SEEDINGS - 1975 YIELDS - 2-YEAR MEANS (kg/ha)

Ridgetown (1031)

	Cut 1	Cut 2	Cut 3	Total 1975	Total 1974	2-year mean
Nuggett	5971	3871	2426	12268	11375	11822
Saranac	5871	4070	2514	12456	12016	12236
Thor	6327	4380	2699	13406	12351	12879
Citation (RP103)	6139	4154	2310	12603	11645	12124
EA-91	5963	4139	2595	12697	12055	12376
Anchor	6198	4038	2431	12667	11551	12109
Angus	6044	4473	2579	13096	11661	12379
LSD (5%)	370	327	273	614	927	
C.V.	4.11%	5.30%	7.33%	3.24%	5.29%	
F	N.S.	*	N.S.	*	N.S.	

1974 SEEDINGS - 1975 YIELDS - (kg/ha)

Guelph (2738)

	Cut 1	Cut 2	Total
Saranac	5415	3687	9102✓
Anchor	5505	3717	9222✓
Thor	5183	3735	8918✓
Angus	5401	3545	8946✓
530	5296	3942	9238✓
Nuggett	5414	3425	8839✓
WL-311	5368	3921	9289✓
Citation	4801	4583	9384✓ ²
K1-7	5618	3981	9599✓ ¹
K1-10	5507	3622	9129✓
Maris Phoenix	5501	3600	9101✓
131	5250	3593	8843✓
CW-5	3720	3772	7492✓
Pacer	5193	3701	8894✓
Saranac	5490	3700	9190✓
Honeoye	5701	3530	9231✓
LSD (5%)	840	581	870
C.V.	11.15%	10.83%	6.75%
F	**	N.S.	*

Ottawa (4401)

	Cut 1	Cut 2	Cut 3	Total
Saranac	5827	3785	2328	11940
Anchor	5934	3429	2325	11688
Thor	5864	3646	2260	11770
Angus	5858	3485	2196	11539
530	5265	3660	2501	<u>11426</u>
Nuggett	6041	3275	2192	11508
WL-311	6560	3835	2504	12899
Citation	6097	3835	2467	12399
K1-7	5029	3597	2527	11152
K1-10	6711	3695	2628	13034
Maris Phoenix	5244	3645	2341	11230
131	5814	3825	2508	12147
CW-5	5122	3407	2145	10674
Pacer	6652	3559	2243	12454
Saranac A.R.	5301	3450	2199	10950
Honeoye	5605	3243	2313	11161
LSD (5%)	639	530	283	1033
C.V.	7.71%	10.34%	8.40%	6.16%
F	**	N.S.	*	**

Thunder Bay (7078)

	<u>Cut 1</u>	<u>Cut 2</u>	<u>Total</u>
Saranac	3458	2513	<u>5971</u>
Anchor	3595	2536	6131
Thor	3513	2584	6097
Angus	3584	2481	6065
530	3158	2268	<u>5426</u>
Nuggett	3740	2427	6167
WL-311	3349	2352	5701
Citation	3628	2486	6114
K1-7	3565	2546	6111
K1-10	3480	2572	6052
Maris Phoenix	3193	2443	5636
131	3596	2293	5889
CW-5	3670	2681	6351
Pacer	3851	2607	6458
Saranac A.R.	3190	2435	5625
Honeoye	3647	2704	6351
LSD (5%)	488	269	659
C.V.	9.72%	7.56%	7.68%
F	N.S.	N.S.	N.S.

MEDIUM ALFALFA TESTS

1973 SEEDINGS - 1975 YIELDS - 2-YEAR MEANS (kg/ha)

Ridgetown (1030)

	Cut 1	Cut 2	Cut 3	Total 1975	Total 1974	2-year mean
Algonquin	6018	4271	2180	12469	12228	12349
EA-21	5716	4409	2537	12662	12185	12424
N7-5	5785	4365	2426	12576	12051	12314
Aztec	6026	4477	2409	12912	12052	12482
Kodiac	5808	4248	2425	12481	12853	12667
Valor	5737	4340	2591	12668	12535	12602
Iroquois	6127	4328	2553	13008	11962	12485
Vernal	5851	4325	2132	12308	11682	11995
Weevlcheck	5966	4219	2568	12753	12540	12647
520	5954	4720	2449	13123	12305	12714
WL-215	5857	4333	2166	12356	11606	11981
Titan	5801	4309	2366	12476	11919	12198
WL-202	5704	4515	2614	12833	12336	12585
WL-210	5906	4152	2280	12338	12639	12489
LSD (5)	299	469	356	782	771	
C.V.	3.57%	7.53%	10.35%	4.33%	4.42%	
F	N.S.	N.S.	N.S.	N.S.	N.S.	

1974 SEEDINGS - 1975 YIELDS (kg/ha)

Guelph (2737)

	Cut 1	Cut 2	Total
Valor	5176	3463	8639 ✓
Kodiak	5330	3647	8977 ✓
Aztec	5026	3598	8624 ✓
P-18	5362	4027	9389 ✓
WL-318	5708	3688	9396 ✓
Klondike	5341	3790	9131 ✓
K3-11	5217	3689	8906 ✓
WL-202	5534	3742	9276 ✓
520	5288	3693	8981 ✓
Agate	5472	3645	9117 ✓
Ramsey	4701	3425	8126 ✓
Weevilcheck	5369	3485	8854 ✓
Titan	5105	3450	8555 ✓
Iroquois	6012	3656	9668 ✓
Vernal	5541	3674	9215 ✓
Algonquin	4978	3618	8596 ✓
WL-210	5341	3926	9267 ✓
LSD (5%)	1118	470	1414
C.V.	14.78%	9.04%	11.07%
F	N.S.	N.S.	N.S.

Thunder Bay 7079 (kg/ha)

	Cut 1	Cut 2	Total
Valor	3878	2142	6020
Kodiak	3553	2225	5778
Aztec	3456	2278	5734
P-18	3242	2090	5332
WL318	3635	2231	5866
Klondike	4105	2277	6382
K3-11	3136	1749	4885
WL-202	4008	2143	6151
520	4202	2213	6415
Agate	3067	1748	4815
Ramsey	3277	1548	4825
Weevlcheck	3799	1920	5719
Titan	3825	1891	5716
Iroquois	4070	2314	6384
Vernal	4060	2074	6134
Algonquin	3554	2168	5722
WL-210	3381	2014	5395
LSD (5%)	638	289	883
C.V.	12.26%	9.88%	10.91%
F	**	**	**

NEW LISKEARD ALFALFA TRIAL - 1973 SEEDING (8005)

	Cut 1	Cut 2	Total 1975	Total 1974	2-year mean
Algonquin	3008	2089	5097	6565	5831
EA-21	3060	1959	5019	7964	6492
N7-5	3027	1372	4399	7533	5966
Aztec	2921	1448	4369	6710	5540
Kodiak	2461	1301	3762	7094	5428
Valor	3338	1535	4873	7815	6344
Iroquois	3128	2034	5162	7803	6483
Vernal	3597	1439	5036	6918	5977
Weevilcheck	3097	1465	4562	6895	5729
520	2546	1259	3805	7371	5588
WL-215	2792	1444	4236	7878	6057
Titan	3155	1517	4282	6636	5459
WL-202	2609	1550	4159	6626	5393
WL-210	2747	1344	4091	6856	5474
Saranac	3301	2171	5472	8044	6758
Angus	3132	1489	4621	7227	5924
Thor	2615	1475	4090	7059	5575
Anchor	2608	2050	4658	7608	6133
Nuggett	2886	1516	4402	6706	5554
Citation (RP103)	3344	1944	5288	7152	6220
EA-91	2714	1635	4349	7636	5993
LSD (5%)	528	427	831	1507	
C.V.	12.63%	18.63%	12.89%	14.72%	
F	**	**	**	N.S.	

SUMMARY: NUGGETT & CITATION VS SARANAC - TOTAL SEASONAL YIELDS

	Ridgetown		New Liskeard		Guelph	Ottawa	Thunder Bay
Seeded	1973		1973		1974	1974	1974
Year harvested	1974	1975	1974	1975	1975	1975	1975
Saranac	12016	12456	8044	5472	9102	11940	5971
Citation	11645	12603	7152	5288	9384	12399	6114
Nuggett	11375	12268	6706	4402	8839	11508	6167

	Mean southern stations		Mean northern stations		Provincial Mean
	4 station-years		3 station-years		7 station-years
Saranac	11379		6496		9286
Citation	11508		6185		9226
Nuggett	10998		5758		8752

SUMMARY: 530 VS SARANAC - TOTAL SEASONAL YIELDS

	Ridgetown		Kapuskasing		Thunder Bay		Guelph	Ottawa	Thunder Bay
Seeded	1971		1971		1971		1974	1974	1974
Harvested	1972	1973	1972	1973	1972	1973	1975	1975	1975
Saranac	12208	9815	4612	3733	6691	5489	9102	11940	5971
530	12507	10100	5886	2990	6158	5608	9238	11426	5426

	Mean southern stations		Mean northern stations		Provincial mean
	4 station-years		5 station-years		9 station-years
Saranac	10766		5298		7728
530	10818		5214		7704

SUMMARY: AZTEC, VALOR, KODIAK VS VERNAL

	Ridgetown		New Liskeard		Guelph	Thunder Bay
Seeded	1973		1973		1974	1974
Harvested	1974	1975	1974	1975	1975	1975
Vernal	11682	11995	6918	5977	9215	6134
Aztec	12052	12482	6710	5540	8624	5734
Kodiak	12853	12667	7094	5428	8977	5778
Valor	12535	12602	7815	6344	8639	6020

	Mean southern stations	Mean northern stations	Provincial Mean
	3 station-years	3 station-years	
Vernal	10964	6343	8654
Aztec	11053	5995	8524
Kodiak	11499	6100	8800
Valor	11259	6726	8893

SUMMARY: KLONDIKE VS VERNAL

	Ridgetown		Guelph		New Liskeard		Kapusksing	
Seeded	1972		1972		1972		1972	
Harvested	1973	1974	1973	1974	1973	1974	1973	1974
Klondike	9424	13014	7357	5056	6576	4937	6930	4183
Vernal	9485	12663	6643	4568	6700	5323	5579	4275
	Thunder Bay		Ottawa		Guelph		Thunder Bay	
Seeded	1972		1972		1974		1974	
Harvested	1973	1974	1973		1975		1975	
Klondike	6356	2919	7526		9131		6382	
Vernal	5791	2595	7171		9215		6134	

	Mean southern stations	Mean northern stations	Provincial Mean
	6 station-years	7 station-years	
Klondike	8585	5469	6907
Vernal	8291	5200	6626

SUMMARY OF BACTERIAL WILT RATINGS

	<u>1974</u>	<u>1973</u>	<u>Mean</u>
Nuggett	1.65	2.04	1.85
Citation	1.64	2.13	1.89
Saranac	1.58	2.57	2.08

	<u>1971</u>	<u>1973</u>	<u>1974</u>	<u>Mean</u>
530	2.46	2.47	1.75	2.23
Saranac	1.59	2.57	1.58	1.91

	<u>1973</u>	<u>1974</u>	<u>Mean</u>
Aztec	2.20	1.58	1.89
Kodiak	2.44	1.50	1.97
Valor	2.17	1.65	1.91
Vernal	2.39	1.53	1.96

	<u>1972</u>	<u>1973</u>	<u>1974</u>	<u>Mean</u>
Klondike	1.93	2.24	1.51	1.89
Vernal	1.62	2.39	1.53	1.85

BACTERIAL WILT RATINGS 1975

H. Baenziger, Ottawa Research Station

Saranac A.R.	1.86	Olympic	2.39
WL318	1.86	Ramsey	2.42
MLM 02015	1.91	K1-7	2.49
Angus (check)	1.97	K1-10	2.51
Apollo	2.00	131	2.56
Victor	2.08	521	2.57
CW5	2.08	MLM 02016	2.60
Agate	2.09	EA 91	2.77
Honeoye	2.17	Vista	2.88
EA 21	2.17	K3-11	3.06
K3-15	2.21	Poldy	3.28
Iroquois (check)	2.27	Ont.Variegated	3.36
Polar-1	2.32	MLM 02017	3.43
Kodiak	2.38	Dupuits	3.54

LSD (5%) .84

C.V. 17.2 %

F **

Birdsfoot Trefoil Varieties - November, 1975

Licensed and Recommended, 1975

Empire	Maitland
Leo	Viking

Under Test

<u>Variety</u>	<u>No. of Station Years Data</u>	<u>Entered by</u>
Carroll	8	Peterson Seed Co.
Cree <i>from Leo</i>	8	C.D.A., Saskatoon
Z9035	8	Zib Szego Assoc.
Orsegi	7	Pickseed

Final Disposition, November, 1975:

Carroll - Support for licensing and recommend;

Z 9035 - re-examine data available, November, 1976;

Cree, Orsegi - Discontinue testing.

UNRECOMMENDED CULTIVARS IN THE ONTARIO PROVINCIAL TREFOIL TRIALS

CARROLL - released from Iowa Experimental Station in 1970

- rights owned by Peterson Seed Co., Iowa
- promoted in Canada by Pioneer Hi-Bred Limited
- 15,000 lb. of seed available for 1976
- in Ontario tests mean yield of both northern and southern stations was greater than check variety

Carroll?
Leo type or Empire type
- a winter hardy, Leo type, less prostrate and earlier in maturity than Empire

- similar to Leo in seedling vigour
- supported for licensing and recommendation in 1976

CREE - selected by Dr. Goplen, Saskatoon from Leo for increased seed production

- in western Canada, equal to Leo in winterhardiness and forage yield but with better seed yield
- in Ontario tests forage yields less than check variety
- not yet licensed, 50-100 lb. of breeders seed only is available
- not supported for licensing or recommendation in 1976

Z9035 - introduced from Russia

- entered by Tib Szego Associates
- an upright type trefoil with very good hardiness in Canadian trials
- in Ontario tests forage yields were below the check variety
- not supported for licensing or recommendation in 1976

ORSEGI - introduction from Hungary

- rated (in Hungary) as a winterhardy variety, with early spring growth and fast aftermath
- not tested in Canada previously
- entered by Otto Pick & Sons Seeds Ltd.,
- in Ontario tests forage yields were below the check variety
- not supported for licensing or recommendation in 1976

Table 1: Trefoil Experiment 2550, Guelph, Seeded 1973
Dry Matter Yield, lb. per acre, 1974

Variety	Cut 1	Cut 2	Total
Leo	4170	2030	6200
Empire	3890	1890	5790
Viking	3110	780	3890
Maitland	2830	850	3680
Carroll	3910	2260	6170
S 9035	4140	2050	6200
Cree	3830	1810	5640
Orsegi	2310	1200	3510
Mean	3530	1610	5130
C.V. (%)	7.1	18.2	7.3
L.S.D.	370	430	550

Table 2: Trefoil Experiment 2550, seeded at Guelph in 1973

Variety	Dry Matter Yield lb/acre, 1975		
	Cut 1	Cut 2	Total
Leo	3381	3292	6673 ✓
Empire	3861	3059	6920 ✓
Viking	2967	3039	6006 ✓
Maitland	2941	2869	5809 ✓
S 9035	3675	2853	6528 ✓
Cree	3372	3455	6827 ✓
Orsegi	2868	2927	5795 ✓
Carroll	4022	2821	6843 ✓
Mean	3386	3039	6425
C.V. (%)	9.4	13.2	7.3
L.S.D. (5%)	469	591	692

Table 3: Average Guelph results (Table 1 and 2) Dry matter yield lb/A

<u>Variety</u>	<u>Total (Cuts 1 and 2)</u>
Leo	6436
Empire	6355
Viking	4948
Maitland	4744
Carroll	6506
Z 9035	6364
Cree	6233
Orsegi	4652

Table 4

Trefoil Experiment 8114, New Liskeard, Seeded 1973
Dry Matter Yield, Lbs./acre, 1974

<u>Variety</u>	<u>Cut 1</u>	<u>Cut 2</u>	<u>Total</u>
Leo	3580	1470	5050
Empire	3910	2310	6220
Viking	3690	2340	6040
Maitland	3630	2330	5960
Carroll	4310	1430	5740
Z 9035	3650	1410	5060
Cree	3340	1870	5210
Orsegi	3460	1710	5170
Mean	3700	1860	5550
C.V. (%)	12.2	16.1	5.7
L.S.D. (5%)	660	440	460

TABLE 5: TPEFOIL EXPERIMENT 8114 SEEDED AT NEW LISKEARD in 1973.

Variety	Dry Matter Yield lb/acre, 1975		
	Cut 1	Cut 2	Total
Leo	3544	1895	5439
Empire	3391	1525	4916
Viking	3309	2063	5372
Maitland	3092	2080	5172
Carroll	3489	1563	5052
S 9035	3020	1639	4659
Cree	2850	1809	4658
Orsegi	2503	1857	4359
Mean	3150	1804	4953
C.V. (%)	12.8	10.1	10.6
L.S.D. (5%)	592	269	771

Table 6: Average New Liskeard Yields (Tables 4 and 5) Dry Matter Yield lb/Acre

Variety	Total (Cuts 1 and 2)
Leo	5244
Empire	5568
Viking	5706
Maitland	5566
Carroll	5396
S 9035	4859
Cree	4934
Orsegi	4764

Table 7

Trefoil Experiment 6504, Kapuskasing, Seeded 1973
Dry Matter Yield, Lbs./acre, 1974

<u>Variety</u>	<u>Cut 1*</u>	<u>Cut 2**</u>	<u>Total*</u>
Leo	2490	1050	3640
Empire	1790	1190	3010
Viking	2260	1440	3900
Maitland	1990	1100	3180
Carroll	2440	1360	3880
Z 9035	1480	920	2470
Cree	2210	1320	3540
Orsegi	1340	980	2490
Mean	2000	1170	3260
C.V. (%)	35.7	23.4	28.5
L.S.D. (5%)	N.S.	N.S.	N.S.

* Yields from 3 reps only.

** Yields from 4 reps.

Table 8: TREFOIL EXPERIMENT 6505 SEDED IN KAPUSKASING in 1974.

<u>Variety</u>	<u>Dry Matter Yield lb/acre, 1975</u>		
	<u>Cut 1</u>	<u>Cut 2</u>	<u>total</u>
Leo	3710	1752	5462
Empire	3603	2240	5842
Viking	3387	1967	5354
Maitland	3141	1915	5056
Carroll	3840	1592	5432
Z 9035	3882	1419	5301
Cree	3529	1279	4808
Orsegi	3067	2141	5208
Mean	3520	1788	5308
C.V. (%)	9.2	24.2	11.0
L.S.D. (5%)	475	638	859

Table 9: Average Kapuskasing Yields (Tables 7 and 8)
Dry Matter Yield lb/acre

<u>Variety</u>	<u>Total Cuts 1 and 2</u>
Leo	4551
Empire	4426
Viking	4627
Maitland	4218
Carroll	4656
Z 9035	3885
Cree	4174
Orsegi	3849

Table 10

Trefoil Experiment 3731, Kemptville, Seeded 1973
Dry Matter Yield, Lbs./acre, 1974

<u>Variety</u>	<u>Cut 1</u>	<u>Cut 2</u>	<u>Total</u>
Leo	5840	2360	8210
Empire	5130	2210	7340
Viking	4830	2420	7250
Maitland	4410	2290	6700
Carroll	6450	2220	8680
Z 9035	5940	2270	8210
Cree	5790	2320	8110
Orsegi	3620	2350	5970
Mean	5250	2310	7560
C.V. (%)	17.0	12.3	11.8
L.S.D.	1310	420	1310

Variety	Dry Matter Yield lb/acre, 1975		
	Cut 1	Cut 2	Total
Leo	5004	3660	8664
Empire	5064	2689	7752
Viking	5084	3422	8506
Maitland	5235	3366	8601
Z 9035	5502	3256	8758
Cree	4914	2891	7805
Carroll	5075	3419	8494
Mean	5126	3243	8369
C.V. (%)	7.8	8.0	5.7
L.S.D. (5%)	596	385	708

Table 12. TREFOIL EXPERIMENT 74-7080 SEEDED AT THUNDER BAY IN 1974.
(REJECTED)

Variety	Dry Matter Yield lb/acre, 1975		
	Cut 1	Cut 2	Total
Leo	3247	1767	5014
Empire	2369	1270	3639
Viking	3028	1514	4542
Maitland	2950	1660	4611
Carroll	3237	1479	4715
Z 9035	2928	1629	4557
Cree	3082	1170	4253
Orsegi	2340	1764	4104
Mean	2898	1532	4429
C.V. (%)	10.4	11.3	7.0
L.S.D. (5%)	443	256	457

Red Clover Varieties - November, 1975

Licensed and Recommended

Dollard	Lakeland
Hungaropoli	Ottawa

Under Test

<u>Variety</u>	<u>No. of Station Years Data</u>	<u>Entered by</u>	<u>Comments</u>
Ottawa 4N	14	Ottawa Res. Sta.	Rec. for license, 1974
WWR 45	3	OSECO	
WWR 80	3	OSECO	
K8-115	3	National-NK	
Arlington	3	OSECO	
Altaswede	3	Ont. F. Crops Com.	Licensed
Norlac	3	Ont. F. Crops Com.	
Redland	10	OSECO	
MLM 03007	0	Maple Leaf Mills	
MLM 03006	0	Maple Leaf Mills	

Disposition of Varieties, November 14, 1975:

Ottawa 4N - re-examine when more data available for Northern Ontario.

ONTARIO RED CLOVER TRIALS

1974 Seedings: Doublecut (early) Cultivars: Ottawa, Dollard, Lakeland, K8-115,
Arlington, Ottawa 4n.
Single Cut (late) Cultivars: WWR45, WWR80, Altaswede, Norlac.
Test Locations: Ottawa, New Liskeard, Kapuskasing. .

1975 Seedings: Double cut (early) Cultivars: Ottawa, Dollard, K8-115, Arlington,
Ottawa 4n, Redland, MLM 03007.
Single Cut (late) Cultivars: WWR45, WWR80, Altaswede, Norlac,
MLM 03006.
Test Locations: Ridgetown, Ottawa, Kapuskasing.

Cultivars eligible for consideration for licensing in the fall of 1976:
K8-115, Arlington, WWR45, WWR80.

YIELDS IN YEAR OF ESTABLISHMENT - 1975 RED CLOVER VARIETIES

Ridgetown (1036)

	Cut 1	Cut 2	Total
Dollard	5345	2848	8193
Ottawa	4954	3037	7991
K8-115	5296	2641	7937
Arlington	4986	2725	7711
Ottawa 4n	4560	2352	6912
WWR80	4837	2019	6856
WWR45	4596	2114	6710
MLM 03007	4482	2207	6689
Altaswede	4607	1512	6119
Norlac	4048	1379	5427
MLM 03006	3711	1608	5319
LSD	865	468	939
C.V.	12.81%	14.59%	9.43%
F	*	**	**

RED CLOVER VARIETY TRIALS - 1974 SEEDED

Ottawa (4501) Early varieties: kg/ha

	<u>Cut 1</u>	<u>Cut 2</u>	<u>Total</u>
Ottawa	4357	4024	8381
Dollard	4897	3379	8276
Lakeland	4915	4176	9091
K8-115	4573	3264	7837
Arlington	4080	3788	7868
Ottawa 4n	4537	3261	7798
LSD (5%)	611	591	922
C.V.	8.90%	10.75%	7.46%
F	N.S.	*	N.S.

Ottawa (4502) Late varieties: kg/ha, one cut only.

WWR45	8202
WWR80	7707
Altaswede	7310
Norlac	7232
LSD (5%)	744
C.V.	6.12%
F	N.S.

Kapuskasing (6554) - one cut only

a. Early Varieties - Kg/ha

Ottawa	3382
Dollard	3709
Lakeland	3473
K8-115	3418
Arlington	3183
Ottawa 4n	3427

b. Late Varieties

WWR45	3483
WWR80	4324
Altaswede	3942
Norlac	4105

LSD (5%)	676
C.V.	12.78%
F	*

New Liskeard (8701)

a. Early varieties, kg/ha

	Cut 1	Cut 2	Total
Ottawa	3721	1388	5109
Dollard	3703	1005	4708
Lakeland	3481	1721	5202
K8-115	4331	1170	5501
Arlington	3878	1731	5609
Ottawa 4n	3456	543	3999

b. Late varieties

WWR45	4086	439	4525
WWR80	4435	427	4862
Altaswede	3993	194	4187
Norlac	4453	153	4606
LSD (5%)	532	318	663
CV.	9.28%	24.98%	9.46%
F	**	**	**

MEANS FOR 1974 SEEDED RED CLOVER VARIETIES - 3 STATION-YEARS

Ottawa	5624
Dollard	5564
Lakeland	5922
K8-115	5585
Arlington	5553
Ottawa 4n	5075
WWR45	5403
WWR80	5631
Altaswede	5146
Norlac	5314

Bromegrass Varieties - November, 1975

Licensed and Recommended - 1975

Baylor
Saratoga

Under Test

<u>Variety</u>	<u>No. of Station Years Data</u>	<u>Entered by</u>	<u>Comments</u>
Tempo (Ott. D-9)	21	Ottawa Res. Sta.	Licensed, 1974
S-7380	21	C.D.A., Saskatoon	
Beacon	9	OSECO	
New Magna	9	C.D.A., Saskatoon	
Carlton	9	C.D.A., Saskatoon	Licensed, 1961
S-7306-2	9	C.D.A., Saskatoon	
Ott. Syn. D-1	9	Ottawa Res. Sta.	
Barton	9	OSECO	
K1-105	0	National-NK	
S7380A	0	C.D.A., Saskatoon	
S8805	0	C.D.A., Saskatoon	
Baylor C	0	OFCC	
MLM 13009	0	Maple Leaf Mills	

Final Disposition - November 14, 1975:

Tempo - Defer recommendation until seed is available;

Beacon, Barton - Support for licensing, recommend when seed is available;

S-7380 - Re-examine data available Nov. 1976;

New Magna, Carlton, S-7306-2, Ott. Syn. D-1 - Discontinue testing.

Bromegrass

Provincial bromegrass test results are reported from 6 locations in 1975. Four of these are for 1973 seedings and two for 1974 seedings. The same varieties and strains were included in the tests seeded in both years. Hay yields were highly variable between locations with two stations reporting only one cut due to dry weather. Nevertheless, sufficient data are available to permit eliminating several varieties and strains from further testing.

Two varieties, Beacon and Barton, continued to perform well, particularly for the 1974 seedings. Either or both of these varieties could be considered for licensing and/or recommendation at this time.

Saratoga and Baylor are the only varieties presently recommended in Publication 296. Due to irrational recent test results, Baylor is presently undergoing extensive retesting. The variety Tempo is about equal to Saratoga in hay yield and superior in seed yield. It will be considered for recommendation after the 1976 crop year when adequate seed supplies are expected.

Several new varieties were entered in the tests seeded in 1975 including Northrup, King K1-105 and Maple Leaf Mills 13009. These tests were seeded at Elora, Kemptville, New Liskeard, Thunder Bay and Ottawa.

Seed supplies for 1976 should be reasonably good as 1975 production was estimated at 3.4 million pounds compared to the five year average of 4 million pounds. The northern type varieties Carlton and Magna made up most of the crop inspected for certification.

F. S. Warren
Coordinator.

3.11.75

Provincial Bromegrass Tests

Expt. 2729

Guelph, Ontario

1975 hay yields from 1973 seeding

Variety or Strain	Yield D.M. kg/ha			1974 Total
	Cut 1	Cut 2	Total	
Baylor	6201	2647	8848	11988
Saratoga	5498	3463	8961	11702
Redpatch	6066	3457	9523	12169
Syn D-1	7017	3259	10276	11672
Carlton	6021	2708	8729	10845
S7380	5797	2629	8426	11011
Tempo	6349	3032	9381	11789
S7306-2	6423	1846	8270	10596
Beacon	5948	3145	9093	11354
Barton	5664	3393	9057	11183
New Magna	5715	2867	8582	11095
Mean	6064	2949	9013	11400
L.S.D. (5%)	1290.6	575.6	1411.5	1361.7
C.V. (%)	14.7	13.5	10.8	8.2
	N.S.			N.S.

Provincial Bromegrass Tests

Expt. 3733

Kemptville, Ontario

1975 hay yields from 1973 seeding

Variety or Strain	Yield D.M. kg/ha		1974 Total
	Cut 1	Cut 2	
Baylor	2593		8141
Saratoga	2953	Not	9278
Redpatch	3089	Taken	9640
Syn D-1	3012	due to	9183
Carlton	2667	dry	8270
S7380	2610	weather	9198
Tempo	3084		8604
S7306-2	2502		8068
Beacon	2528		9533
Barton	2642		8383
New Magna	2887		8767
Mean	2779		8824
L.S.D. (5%)	N.S.		1186.2
C.V. (%)	14.0		9.3

Provincial Bromegrass Tests

Expt. 4120

Ottawa, Ontario

1975 hay yields from 1973 seeding

Yield D.M. kg/ha

Variety or Strain				1974
	Cut 1	Cut 2	Total	Total
Baylor	3833			5471
Saratoga	4136			6537
Redpatch	4145			6933
Syn D-1	3483			6032
Carlton	3888			6305
S7380	3662			6474
Tempo	3403			6637
S7306-2	3484			5727
Beacon	4041			7763
Barton	3965			7438
New Magna	3478			6097
Mean	3774			6492
L.S.D. (5%)	N.S.			1152.2
C.V. (%)	16.7			12.3

Provincial Bromegrass Tests

Expt. 7068

Thunder Bay, Ontario

1975 hay yields from 1973 seeding

Variety or Strain	Yield D.M. kg/ha			1974 Total
	Cut 1	Cut 2	Total	
Baylor	5037	2457	7494	4989
Saratoga	4730	2235	6965	5472
Redpatch	4902	2052	6955	5621
Syn D-1	4551	1709	6260	5547
Carlton	4884	1911	6795	5691
S7380	4560	2107	6667	5308
Tempo	4865	2192	7057	5576
S7306-2	4460	1989	6449	5191
Beacon	4729	2214	6943	5287
Barton	4711	1808	6519	5347
New Magna	4744	2133	6877	5628
Mean	4743	2073	<u>6816</u>	<u>5423</u>
L.S.D. (5%)	474.8	470.0	748.0	392.7
C.V. (%)	6.9	15.7	7.6	5.0
	N.S			

Provincial Bromegrass Variety Tests

1975 hat yields from 1973 seeding at 4 locations

Variety	Total yield D.M. kg/ha				
Location	Guelph	Kemptville	Ottawa	Thunder Bay	Mean
Expt. No.	2729	3733	4120	7068	
Baylor	8848	2593	3833	7494	5695
Saratoga	8961	2953	4136	6965	5757
Redpatch	9523	3089	4145	6955	5932
Syn D-1	10276	3012	3483	6260	5761
Carlton	8729	2667	3888	6795	5523
S7380	8426	2610	3662	6667	5345
Tempo	9381	3084	3403	7057	5735
S7306-2	8270	2502	3484	6449	5179
Beacon	9093	2528	4041	6943	5655
Barton	9057	2642	3965	6519	5549
New Magna	8582	2887	3478	6877	5459
Mean	9013	2779	3774	<u>6816</u>	5599
L.S.D. (5%)	1411.5	N.S.	N.S.	748.0	466.7
C.V. (%)	10.8	14.0	16.7	7.6	

Provincial Bromegrass Tests

Expt. 1033

Ridgetown, Ontario

1975 hay yields from 1974 seeding

Yield D.M. kg/ha

Variety or Strain	Cut 1	Cut 2	Total
Baylor			
Saratoga	5966	3360	9326
Redpatch	6025	3651	9676
Syn D-1	6079	2891	8970
Carlton	5913	2821	8735
S7380	5823	3177	8999
Tempo	6130	3213	9343
S7306-2	5771	2737	8508
Beacon	6452	3475	9927
Barton	6705	3837	10542
New Magna	5943	3173	9117
Mean	6081	3233	9314
L.S.D. (5%)	495.2	421.7	749.2
C.V. (%)	5.6	9.0	5.5

Provincial Bromegrass Tests

Expt. 6005

Kapuskasing, Ontario

1975 hay yields from 1974 seeding

Variety or Strain	Yield D.M. kg/ha		Total
	Cut 1	Cut 2	
Baylor	642	1301	1943
Saratoga	2379	2197	4576
Redpatch	2400	2263	4664
Syn D-1	1894	1835	3729
Carlton	3359	2600	5959
S7380	3707	2364	6072
Tempo	2998	2247	4808
S7306-2	2545	1793	4337
Beacon	3515	2531	6046
Barton	3419	2277	5696
New Magna	3034	2059	5093
Mean	2717	2133	4811
L.S.D. (5%)	802.6	436.0	1108.6
C.V. (%)	20.5	14.1	16.0

Provincial Bromegrass Variety Tests

Summary of yields from 1973 and 1974 seedings

Variety	Total yield D.M. kg/ha			
Seeding year	1973		1974	Mean
Crop year	1974	1975	1975	
Locations	5	4	2	
Baylor	7651	5695	-	
Saratoga	8133	5757	6947	6946
Redpatch	8441	5932	7170	7181
Syn D-1	8284	5761	6349	6798
Carlton	7598	5523	7347	6823
S7380	8069	5345	7536	6983
Tempo	8210	5735	7075	7007
S7306-2	7484	5179	6422	6362
Beacon	8266	5655	7986	7302
Barton	8131	5549	8119	7266
New Magna	8067	5459	7105	6877
Mean	8031	5599	7062	6897

Provincial Bromegrass Tests
Guelph - First cut yield and digestibility

Expt. 2718

Variety or	1973		1974		Mean	
Strain	Yield lb/a	I.V.D. %	Yield lb/a	I.V.D. %	Yield lb/a	I.V.D. %
Saratoga	6640	68.9	7150	53.4	6890	61.2
Tempo	6100	66.1	7170	55.4	6640	60.8
S7695	6330	65.0	6730	52.6	6530	58.8
S7380	6370	65.4	6540	54.7	6450	60.1
Baylor	5640	68.9	7140	53.6	6390	61.3
Syn D-2	5660	64.9	6880	53.9	6270	59.4
Redpatch	5990	64.8	6460	54.4	6230	59.6
Brandon 988	5930	63.9	5830	53.2	5880	58.6
Mean	6080	66.0	6740	53.9	6410	60.0
L.S.D. (5%)	N.S.	2.1	N.S.	N.S.	N.S.	N.S.
C.V. (%)	7.7	2.1	10.4	6.1	9.3	4.5

Expt. 2729

	Yield 1974	I.V.D.
Baylor	7100	51.2
Ott.Syn D-1	6490	53.2
S7380	6220	54.4
S7306-2	6210	57.2
Tempo	6190	52.6
Saratoga	6140	54.0
Redpatch	6110	51.2
Beacon	6010	51.7
New Magna	5950	54.8
Carlton	5850	52.7
Barton	5650	53.3
Mean	6170	53.3
L.S.D. (5%)	N.S.	3.1
C.V. (%)	13.5	8.6

Orchardgrass Varieties - November, 1975

Licensed and Recommended - 1975

Frode	Tordus II
Hallmark	Kay
Ina	

Under Test

<u>Variety</u>	<u>No. Station-Years Data</u>	<u>Entered By</u>	<u>Comments</u>
Kall	21	OSECO	
K8-117	21	National-NK	
K8-118	21	National-NK	
K8-120	21	National-NK	
K8-123	21	National-NK	
Nordstern	19	National-NK	Licensed, 1972
Napier	15	OSECO	
Juno	9	Ottawa Res. Sta.	Licensed, 1973
Dart	9	OSECO	
Kitamadori	9	Nat. Res., Japan	
S66-4-47/72	9	OSECO	
Majestic	8	Maple Leaf Mills	Licensed, 1971
Sumas (PX36)	3	C.D.A., Agassiz	Licensed, 1974
Dayton	3	OSECO	
OX 1	3	Rudy-Patrick	
Ottawa 6	0	Ottawa Res. Sta.	
MLM 14010	0	Maple Leaf Mills	
MLM 14009	0	Maple Leaf Mills	

Final Disposition, November 14, 1975:

Napier, Nordstern - supported for licensing, and if licensed, will be recommended;

K8-120, Kall, Dart - support for licensing and recommend when seed available;

Juno, Kitamadori - re-examine the data available in November, 1976;

K8-117, K8-118, K8-123, Majestic, S-66-4-47/72 = discontinue testing.

Provincial Orchardgrass Test 1974-75

Expt. 2730

Guelph, Ontario

Seeded in 1973

Yield D.M. kg/ha

1974

1975

Variety	Cut 1	Cut 2	Total	Cut 1	Cut 2	Cut 3	Total	2 Year Mean
Juno	6098	3254	<u>9352</u>	7673	1768	1694	9136	<u>9244</u>
Kay	7004	2878	9883	5622	2136	1815	9572	9727
Frode	6655	2370	9024	5247	1931	1721	8899	8962
Rideau	6302	2705	9007	5413	2056	2143	9611	9309
Tardus II	5281	3240	8521	5261	1761	2049	9071	8796
Nordstern	7216	3016	10232	5799	1743	1686	9228	9730
Majestic	6377	2574	8951	6022	1608	2059	9689	9320
Ina	6580	2765	<u>9345</u>	6023	1825	1718	9566	<u>9456</u>
Hallmark	5947	3239	9186	6359	2150	1669	10179	9683
Kall	5379	3259	8640	5258	1578	1977	8813	8727
K8-120	5289	3081	8370	4523	2247	1900	8671	8521
K8-123	5431	2688	8119	5916	1557	1655	9128	8624
K8-117	6588	2475	9064	6238	1682	1280	9200	9132
K8-118	5798	2675	8473	4749	2630	1627	9006	8740
Dart	5618	3008	8626	5216	2016	2035	9267	8947
S66-4-47/ 12	5095	2580	7675	4757	1785	2134	8677	8176
Kitamidori	5557	3361	8919	5946	2066	1931	9944	9432
L.S.D. (%)	790.82	427.83	892.64	1036.73	484.80	766.19	1496.77	
C.V. (%)	10.36	11.66	7.90	13.19	17.82	29.47	11.36	

Provincial Orchardgrass Test 1974-75

Ottawa, Ontario

Expt. 4122

Seeded in 1973

Yield D.M. kg/ha

Variety	1974			1975	2 Year Mean
	Cut 1	Cut 2	Total	Cut 1	
Juno	3428	743	4171	2691	3431
Kay	4185	988	5173	3352	4263
Frode	2800	864	3664	2689	3177
Rideau	2949	818	3767	2760	3264
Tardus II	3392	1062	4454	3106	3780
Nordstern	3818	935	4753	3304	4029
Majestic	3118	869	3987	2931	3459
Ina	3371	989	4360	2767	3564
Hallmark	3734	1169	4903	2918	3911
Kall	2685	722	3407	2780	3094
K8-120	3695	765	4460	3188	3824
K8-123	3401	823	4224	3042	3633
K8-117	3285	812	4097	3283	3690
K8-118	3642	732	4374	3165	3770
Dart	3359	1112	4471	2727	3599
S66-4-47/12	2585	678	3263	2119	2691
Kitamidori	3039	962	4001	2859	3430
L.S.D. (%)	633.02	211.16	768.88	665.96	
C.V. (%)	15.01	18.80	14.40	16.03	

Provincial Orchardgrass Test 1974-75

Expt. 7067

Thunder Bay, Ontario

Seeded in 1973

Yield D.M. kg/ha

Variety	1974			1975			2 Year Mean
	Cut 1	Cut 2	Total	Cut 1	Cut 2	Total	
Juno	2311	1208	3529	3994	1082	5076	4303
Kay	2979	868	3847	3893	1424	5317	4582
Frode	2844	1145	3989	3970	1230	5200	4595
Rideau	3059	1068	4127	3630	1384	5014	4571
Tardus II	2074	1589	3663	4259	1019	5278	4471
Nordstern	3149	887	4036	4100	1074	5174	4605
Majestic	3287	1164	4451	3864	1257	5121	4786
Ina	2540	1406	3946	4063	1054	5117	4532
Hallmark	2101	1570	3671	4432	1451	5883	4777
Kall	2812	1100	3912	3919	1023	4942	4427
K8-120	3076	1147	4223	4250	868	5118	4671
K8-123	3845	804	4649	3810	1030	4840	4745
K8-117	3652	978	4630	3772	889	4661	4646
K8-118	3245	917	4162	3656	1165	4821	4492
Dart	2647	1512	4159	4245	1391	5636	4898
S66-4-47/12	2000	1392	3392	3873	1109	4982	4187
Kitamidori	2685	1387	4072	4193	1394	5587	4830
L.S.D. (%)	553.63	377.60	597.69	418.62	259.92	502.10	
C.V. (%)	15.35	25.11	11.70	7.37	15.67	6.84	

Provincial Orchardgrass Test

Expt. 1034

Ridgetown, Ontario

Seeded 1974

Yield D.M. kg/ha

Variety	Cut 1	Cut 2	Total
Kay	5414	3312	8727
Frode	5425	3197	8622
Rideau	5263	3419	8682
Nordstern	5006	3191	8197
Hallmark	5974	3413	9387
Kall	5557	3110	8667
Dart	5547	3418	8965
Juno	5832	3058	8890
K8-120	5234	3094	8328
K8-123	4990	3205	8195
K8-117	5007	3293	8300
K8-118	5092	3184	8276
S66-4-47/72	5166	3143	8309
Ina	5580	3267	8847
Kitamidori	5488	3285	8773
Napier	5455	3040	8495
Dayton	5602	3126	8728
OX-1	5633	3306	8939
P-36	5838	3501	9339
L.S.D. (%)	398.57	506.56	748.38
C.V. (%)	5.19	11.06	6.11

Provincial Orchardgrass Test 1975

Expt. 4123

Ottawa, Ontario

Seeded in 1974

Yield D.M. kg/ha

Variety	Cut 1	Cut 2	Total
Kay	4799	1869	6667
Frode	4591	1783	6374
Rideau	3874	2138	6012
Tardus II	4475	2006	6481
Nordstern	4126	1520	5646
Hallmark	5734	2572	8306
Kall	4628	2103	6731
Dart	4411	3006	7417
Majestic	4591	1517	6107
Juna	4538	3033	7571
K8-120	4990	1490	6480
K8-123	4636	1697	6333
K8-117	4375	2165	6540
K8-118	4161	1368	5530
S66-4-47/72	3888	2276	6164
Ina	5343	1820	7162
Kitamidori	4492	2358	6850
Napier	4805	2742	7547
Dayton	4702	2339	7041
OX-1	5310	2027	7337
P-36	4668	2236	6904
L.S.D. (%)	758.58	963.08	1125.07
C.V. (%)	9.94	27.83	10.15

Provincial Orchardgrass Test 1975

Expt. 6085

Kapuskasing, Ontario

Seeded in 1974

Yield D.M. kg/ha

Variety	Cut 1	Cut 2	Total
Kay	2944	2042	4985
Frode	2436	2107	4543
Rideau	2446	2019	4465
Tardus II	372	1689	2061
Nordstern	2634	1691	4325
Hallmark	1802	2181	3983
Kall	2137	2009	4145
Dart	2388	2330	4717
Majestic	1160	1731	2891
Juno	2309	1799	4108
K8-120	2452	1726	4179
K8-123	2282	1714	3996
K8-117	2416	1734	4150
K8-118	2687	1845	4531
S66-4-47/72	2114	1595	3709
Ina	2745	2080	4825
Kitamidori	1443	1897	3340
Napier	2439	1820	4259
Dayton	2215	2026	4241
OX-1	2385	2225	4610
PX-36	2503	2185	4687
L.S.D. (%)	773.91	352.62	1017.10
C.V. (%)	24.82	12.95	17.41

Ontario Forage Crops Committee

Timothy Varieties - November, 1975

Licensed and Recommended - 1975

Champ	Milton
Climax	Timfor
Itasca	Toro

Under Test

<u>Variety</u>	<u>No. of Station-Years Data</u>	<u>Entered by</u>	<u>Comments</u>
* Basho	24	Ottawa Res. Stn.	Licensed
CIVBA(Winda)	2	Otto Pick & Sons	
CIV2A	2	Otto Pick & Sons	
Gusto	2	Otto Pick & Sons	Nov. 1974-
Heilbrink	18		testing discontinued
Mahndorfer	2	Oseco Limited	
* MLM 17011	8	Maple Leaf Mills	
MLM Tim H7	0	Maple Leaf Mills	Seeded 1975
Maris Polka	0	Nat. Seed Dev., Cambridge	Seeded 1975
* Medon	8	U. of Guelph	
* Murra	8	Otto Pick & Sons	
* N7-126	18	National - NK	
* N7-127	8	National - NK	
Odenwalder	0	Oseco Limited	Seeded 1975
* Omnia	12	Maple Leaf Mills	
* Pronto	23	National - NK	Nov. '73-support- ed for license
T-49	18	Oseco Limited	} Nov. '74-Testing discontinued
T-93	18	Oseco Limited	
* Senpoku	8	Hokkaido Exp. Sta.	

* Considered for licensing and/or recommendation, Nov. 13-14, 1975.

Final Disposition of Varieties, Nov. 14, 1975:

Basho, Pronto - Defer recommending, as no seed available.
 MLM 17011, N7-126 - Support for licensing and recommend when seed available.
 Medon, Murra, Senpoku - Re-examine the data available in November, 1976.
 Omnia - Discontinue testing.
 N7-127 - Withdrawn by the breeder.

B. R. Christie,
Co-ordinator.

Comparisons of Varieties

Varieties	No. Station Years	Yield - lbs. D.M./acre								
		S. Ontario			N. Ontario			Province		
		Cut 1	Aftermath	Total	Cut 1	Aftermath	Total	Cut 1	Aftermath	Total
Basho	24	5690	2260	7950	4390	2270	6660	5040	2270	7310
Climax		5700	1780	7480	4730	1960	6690	5210	1870	7080
MLM 17011	8	5640	2150	7790	3920	920	4840	4780	1530	6310
Climax		5770	1750	7520	3950	830	4780	4860	1290	6150
Medon	8	5490	1610	7100	3810	990	4800	4650	1300	5950
Climax		5770	1750	7520	3950	830	4780	4860	1290	6150
Murra	8	5590	1990	7580	3820	860	4680	4710	1430	6140
Climax		5770	1750	7520	3950	830	4780	4860	1290	6150
N7-126	19	5490	2190	7680	4500	1730	6230	5000	1960	6960
Climax		5480	1980	7460	4670	1690	6360	5080	1840	6920
Omnia	12	5400	1460	6860	3790	680	4470	4800	860	5660
Climax		5600	1920	7520	4080	700	4780	5030	1120	6150
Pronto	21	5560	2040	7600	4820	2090	6910	5190	2060	7250
Climax		5600	1860	7460	4820	2040	6860	5210	1950	7160
Senpoku	8	5350	1900	7250	3670	1050	4720	4570	1480	6050
Climax		5770	1750	7520	3950	830	4780	4860	1290	6150

Yield Performance of Recommended Varieties

<u>Variety</u>	<u>Seeded '72, 1973-'74</u>			<u>Seeded '73, 1974-'75</u>			<u>Seeded 1974, 1975</u>			<u>Mean</u>		
	<u>Cut 1</u>	<u>Cut 2</u>	<u>Total</u>	<u>Cut 1</u>	<u>Cut 2</u>	<u>Total</u>	<u>Cut 1</u>	<u>Cut 2</u>	<u>Total</u>	<u>Cut 1</u>	<u>Cut 2</u>	<u>Total</u>
Champ	5330	2360	7690	4810	1910	6720	5090	1630	6720	5080	1960	7040
Climax	5410	1810	7220	5020	1340	6360	5080	1450	6530	5170	1530	6700
Itasca	5690	1910	7600	5090	1710	6800	5100	1600	6700	5290	1740	7030
Milton	5450	2040	7490	5010	1750	6760	4810	1700	6510	5090	1830	6920
Timfor	5620	2150	7770	4930	1690	6620						
Toro	5130	2410	7540	4840	1980	6820	4670	1680	6350	4880	2020	6900

Heading Dates - Guelph

<u>Variety</u>	<u>1973</u>	<u>1974</u>	<u>1975</u>	<u>Mean</u>
Champ	June 23	June 28	June 25	June 25
Climax	June 29	July 2	July 2	July 1
Itasca	June 24	June 28	June 28	June 27
Milton	June 29	July 1	July 2	July 1
Timfor	June 28	June 30	July 2	June 30
Toro	June 18	June 25	June 23	June 22

1)

Table 1 - Provincial Timothy Test - Seeded 1973
Yield - lbs. D.M./acre

<u>Variety</u>	<u>1974</u>		<u>1975</u>		<u>1974-'75</u>	
	<u>Cut 1</u>	<u>Total</u>	<u>Cut 1</u>	<u>Total</u>	<u>Cut 1</u>	<u>Total</u>
Champ	4660	6780	4960	6650	4810	6715
Climax	5340	7090	4690	5620	5015	6355
Itasca	5260	7470	4920	6120	5090	6795
Milton	4990	7110	5020	6410	5005	6760
Timfor	4960	7030	4890	6150	4925	6590
Toro	4880	7210	4890	6430	4885	6820
Heilbrink	4720	6740	4500	5500	4610	6120
N7-126	5250	6910	4840	5860	5045	6385
T-49	4760	6040	4720	5700	4740	5870
T-93	4960	6440	4730	5620	4845	6030
Omnia	5000	6460	4480	5320	4740	5890
N7-127	5250	6900	4750	5680	5000	6590
Medon	5040	6840	4610	5590	4825	6215
MLM 17011	4860	7070	4770	6490	4815	6780
Murra	4980	6950	4690	5940	4835	6445
Senpoku	4790	6750	4280	5510	4535	6130
Mean	4980	6870	4730	5910	4855	6390
L.S.D. (5%)	370	430	420	470		

1)

Seeded at Guelph, Ottawa and New Liskeard

1)

Table 2 - Provincial Timothy Test - Seeded 1974

Yield - lbs. D.M./acre, 1975

<u>Variety</u>	<u>Cut 1</u>	<u>Total</u>
Champ	5090	6720
Climax	5080	6530
Itasca	5100	6700
Milton	4810	6510
Toro	4670	6350
Basho	4950	6420
Omnia	4910	5960
N7-127	4830	6240
Medon	4810	6120
MLM 17011	5110	6790
Murra	5040	6480
Senpoku	4900	6420
CIV BA(Winda)	3650	4630
CIV 2A	4690	5580
Gusto	3780	4690
Mahndorfer	5140	6440
Mean	4780	6160
L.S.D. (5%)	390	470

1)

Data from Ridgetown and Thunder Bay

Expt. 2728 Prov. Timothy Test 1973 Seeded. Guelph

Variety	Yield - lbs. D.M./acre-1975			Total Yield 1974(2 cuts)
	Cut 1	Cut 2	Total	
Champ	6440	4250	10,690	8930
MLM 17011	6120	4450	10,570	8850
Milton	6580	3750	10,330	9570
Toro	6240	4040	10,280	9180
Barmere	6050	3450	9,500	7740
Murra	5470	3390	8,860	8730
Timfor	5660	3160	8,820	8920
N7-126	6030	2700	8,730	8740
Itasca	5520	3080	8,600	9210
T-49	5950	2530	8,480	7860
N7-127	5650	2470	8,120	9050
T-93	5760	2320	8,080	7990
Medon	5400	2340	7,740	8730
Senpoku	4870	2860	7,730	9210
Climax	5090	2610	7,700	8410
Heilbrink	4950	2720	7,670	8430
Omnia	5240	2160	7,400	7980
LSD 5% (LB/AC):	N.S.	530	1,270	950
MEAN (LB/AC):	5710	3070	8,780	8680

Exp. 4121. Prov. Timothy Test. Seeded 1973. Ottawa

<u>Variety</u>	<u>Yield - Cut 1, 1975</u> (LB/AC)	<u>Total Yield</u> <u>1974(2 cuts)</u>
Climax	4840	6770
Champ	4630	6160
Milton	4530	6060
Itasca	4950	6620
Toro	4610	6270
Timfor	4880	6130
Heilbrink	4600	5730
Omnia	4600	5970
Medon	4560	5800
MLM 17011	4410	5820
T-49	4400	5520
T-93	4700	5630
N7-126	4500	6000
N7-127	4400	5880
Murra	4470	5920
Senpcku	4240	5290
L.S.D.	N.S.	770
Mean	4580	5970

Expt. 8405. Prov. Timothy Test 1973 Seeded. New Liskeard

Variety	Yield - 1975			Total Yield 1974(2 cuts)
	Cut 1	Cut 2	Total	
Itasca	4280	540	4820	6580
Timfor	4120	640	4760	6200
Barmere	4000	670	4670	6160
Champ	3800	830	4630	5250
Senpoku	3740	810	4550	5730
N7-127	4190	330	4520	5410
Murra	4120	380	4500	5870
Medon	3860	610	4470	6030
MLM 17011	3770	650	4420	6500
Toro	3520	880	4400	6190
Milton	3960	430	4390	5700
N7-126	3980	360	4340	6110
Climax	4160	160	4320	6080
Heilbrink	3940	300	4240	6270
T-49	3800	410	4210	4770
T-93	3740	350	4090	5800
Omnia	3600	370	3970	5540
LSD 5% (LB/AC):	400	180	400	630
MEAN (LB/AC):	3920	510	4430	5890

Expt. 1032. Prov. Timothy Test. 1974 Seeded. Ridgetown

<u>Variety</u>	<u>Yield - lbs. D.M./acre - 1975</u>		<u>Total</u>
	<u>Cut 1</u>	<u>Cut 2</u>	
...	5910	3340	9250
Champ	6580	2620	9200
Itasca	6790	2390	9180
MLM 17011	6410	2550	8960
Murra	6440	2330	8770
Climax	6590	2110	8700
Mahndorfer	6700	1880	8580
Basho	6350	2200	8550
Senpoku	6290	2250	8540
N7-127	6450	1900	8350
Milton	6320	1900	8220
Medon	6140	1760	7900
Omnia	6280	1330	7610
CIV 2A	6180	1140	7320
Gusto	4900	1100	6000
Winda	4750	1140	5890
LSD 5% (LB/AC):	720	470	780
MEAN (LB/AC):	6190	2000	8190

Expt. 74-7077. Prov. Timothy Test. Thunder Bay

Variety	<u>Yield - lbs. D.M./acre-1975</u>		<u>Total</u>
	<u>Cut 1</u>	<u>Cut 2</u>	
MLM 17011	3810	810	4620
Climax	3570	800	4370
Medon	3470	860	4330
Omnia	3530	780	4310
Senpoku	3510	800	4310
Mahndorfer	3570	730	4300
Basho	3560	730	4290
Champ	3600	640	4240
Itasca	3400	810	4210
Murra	3640	550	4190
N7-127	3210	930	4140
Toro	3420	710	4130
Milton	3300	810	4110
Engmo	3470	610	4080
CIV 2A	3200	640	3840
Gusto	2670	720	3390
Winda	2540	830	3370
LSD 5% (LB/AC):	300	330	290
MEAN(LB/AC):	3380	750	4130

Ontario Provincial Timothy Trial - Seeded 1975

The following varieties were seeded in 1975 at Guelph, Ottawa and New Liskeard:

Champ	Mahndorfer
Climax	Medon
Itasca	CIV BA (Winda)
Milton	CIV 2A
Timfor	Gusto
Toro	
	Odenwalder
Basho	MLM Tim. H7
Pronto	Maris Polka

Cicer Milk Vetch
Variety Trial
1974 Seeding
1975 Data Cut 1

Variety	Ottawa Cut 1	Kapuskasing Cut 1	New Liskeard Cut 1	Thunder Bay Cut 1	Total
Oxley	3082	2806	2876	2044	2565
Lutana	4469	3111	3203	2498	3900
Wyoming	4585	3459	2514	2296	3455
O.S. 26	4891	3094	3142	2293	3605
Leo Trefoil	4572	5231	3438	2946	4537
Angus Alfalfa	4288				
LSD	517	1063	N.S.	504	827
CV	10.1	20		13.5	14.8

VARIETIES OF TALL FESCUE REED CANARY AND BROME FOR HAY AND LATE PASTURE

Guelph (Exp: - 49182, Seeded 1974)
Pounds Per Acre D.M. (Total Yield)

1975 Harvest

SPECIES - Varieties	ZERO NITROGEN			NITROGEN		
	Harvest 1 Hay (June 24)	Harvest 2 Hay (Sept.9)	Season Total	Harvest 1 Hay (June 24)	Harvest 2 Hay (Sept. 9)	Season Total
Tall Fescue Fawn Kentucky 31	6051	1645	7696	6661	3247	9908
	7263	725	7988	7948	2538	10486
Reed Canary Frontier Rise Castor	6474	1046	7520	6810	2439	9249
	5639	1040	6679	6382	2313	8695
	6169	990	7159	6265	2167	8432
Brome Grass Magna Saratoga	7487	990	8477	7642	3157	10799
	7626	1826	9452	7243	3350	10593
	Hay (July 17)	Pasture (Oct.21)		Hay (July 17)	Pasture (Oct.21)	
Tall Fescue Fawn Kentucky 31	5723	1544	7267	6413	3361	9774
	7005	1054	8059	7369	3276	10645
Reed Canary Frontier Rise Castor	6796	1203	7999	7304	2057	9361
	7059	1131	8190	6603	2105	8708
	6133	965	7098	6603	1906	8509
Brome Grass Magna Saratoga	8686	1134	9820	7103	2610	9713
	7874	1534	9408	6741	2948	9689

VARIETIES OF TALL FESCUE, REED CANARY AND BROME FOR HAY AND LATE PASTURE

1975 Harvest

Thunder Bay (Test-7076, Seeded 1974)
Pounds Per Acre D.M. (Total Yield)

SPECIES - Varieties		ZERO NITROGEN			NITROGEN		
		Harvest 1 Hay (June 17) ✓	Harvest 2 Hay (Aug.22) ✓	Season Total	Harvest 1 Hay (June 17) ✓	Harvest 2 Hay (Aug.22) ✓	Season Total
Tall Fescue	Jebel		527	527		570	570
	Kasha		405	405		310	310
	Fawn	2565	379	2944	3472	548	4020
	Kentucky 31	3153	286	3439	4366	463	4829
Reed Canary	Frontier	3977	454	4431	4625	475	5100
	Rise	3649	465	4114	4914	770	5684
	Castor	3051	282	3333	4410	664	5074
Brome Grass	Magna	3777	439	4216	4778	499	5277
	Saratoga	3797	542	4339	5114	1050	6164
		Hay (July 9) ✓	Pasture (Sept.11)		Hay (July 9) ✓	Pasture (Sept.11)	
Tall Fescue	Jebel		223	223		182	182
	Kasha		149	149		196	196
	Fawn	3772	907	4679	4279	876	5115
	Kentucky 31	4345	703	5048	4798	815	5613
Reed Canary	Frontier	4379	1348	5727	5855	1116	6971
	Rise	3269	1309	4578	5618	1353	6971
	Castor	3004	1057	4061	5369	1061	6430
Brome Grass	Magna	4986	926	5912	6168	967	7135
	Saratoga	4672	1328	6000	5883	1509	7392

VARIETIES OF TALL FESCUE, REED CANARY AND BROME FOR HAY AND LATE PASTURE

Kapuskasing (Test-6709, Seeded 1974)
Pounds Per Acre D.M. (Total Yield)

SPECIES - Varieties		ZERO NITROGEN			NITROGEN		
		Harvest 1	Harvest 2	Season Total	Harvest 1	Harvest 2	Season Total
		Hay	Hay		Hay	Hay	
Tall Fescue	Jebel	497	328	825	1103	1833	2963
	Kasha	663	484	1147	1543	1711	3254
	Fawn	2109	594	2703	2759	2772	5531
	Kentucky 31	2090	604	2694	3445	2672	6117
Reed Canary	Frontier	2251	796	3047	3650	1607	5257
	Rise	2675	450	3125	4336	1617	5953
	Castor	2740	312	3052	3230	1604	4834
Brome Grass	Magna	2597	678	3275	3799	2776	6575
	Saratoga	2215	755	2970	3087	2700	5787
		Hay	Pasture		Hay	Pasture	
Tall Fescue	Jebel	1023	297	1320	1343	804	2147
	Kasha	1130	330	1460	1377	791	2168
	Fawn	2413	699	3112	2309	1938	4247
	Kentucky 31	3544	683	4227	2928	1867	4795
Reed Canary	Frontier	4343	928	5271	4634	2161	6795
	Rise	4680	1049	5729	4165	1944	6109
	Castor	4333	575	4908	3967	1649	5616
Brome Grass	Magna	4534	487	5021	4461	2489	6950
	Saratoga	3759	842	4601	3581	2363	5944

* No Dates of Harvest Available.

Species For Early And Late Pastures
Pounds Per Acre D.M. (Total Yield)

HARVEST 1
(Early Pasture)

SPECIES - Varieties		GUELPH	KAP.	KAP.	K.C.A.T.	N.L.C.A.T.	N.L.C.A.T.	THUNDER	THUNDER
		Seeded 1972 1973-1974 2 yr.Ave. (May 20)	Seeded 1972 73,74,75 3 yr. Ave.	Seeded 1973 1974-1975 2 yr. Ave.	Seeded 1972 73,74,75 3 yr. Ave. (June 6)	Seeded 1972 1973 1 year (July 9)	Seeded 1973 1974-1975 2 yr. Ave. (June 20)	BAY Seeded 1972 1973 1 year (May 30)	BAY Seeded 1973 1974-1975 2 yr. Ave. (June 5)
Alfalfa	Saranac		663	869	2309	3194	2297	1954	1070
	Vernal		640	754	2129	3367	2743	1626	993
Trefoil	Maitland				2127	4054	2438	987	1261
	Empire				1940	3662	2416	572	706
Crown Vetch	Penngift				1681	3336	1572		
Cicer Milk Vetch	Oxley					4539	1906	522	
Sainfoin	Morton T.						1864		
	Krasnodar			724			2430	1591	
Brome Grass	Saratoga	1302	1296	1214		4877	3302	2551	2302
Orchard Grass	Frode	952	714	863	2697	4368	2501	1054	761
	Kay	870	1111	1408	2531	5510	2497	1545	1419
Tall Fescue	Common	865	581	611	2803	4912	2655	1465	878
Reed Canary	Frontier	1301	1686	862	3324	6040	3579	1749	1948
Wild Rye	Altai			585		3462	2255	854	1252
Wheat Grass	Sodar								
	Streambank		686	667		3956	1903	310	1008

Species For Early and Late Pastures
Pounds Per Acre D.M. (Total Yield)

HARVEST 2
(Hay Harvest)

SPECIES - Varieties		GUELPH	KAP.	KAP.	K.C.A.T.	N.L.C.A.T.	N.L.C.A.T.	Thunder
		Seeded 1972 1973-1974 2 yr. Ave. (July 20)	Seeded 1972 73,74,75 3 yr. Ave.	Seeded 1973 1974-1975 2 yr. Ave.	Seeded 1972 73,74,75 3 yr. Ave. (July 23)	Seeded 1972 1973 1 year (Aug.15)	Seeded 1973 1974-1975 2 yr. Ave. (Aug. 17)	BAY Seeded 1972 1973 1 year (July 9)
Alfalfa	Saranac	3933	2157	2480	2900	1560	2320	2309
	Vernal	4114	2165	2220	2605	1324	2228	2536
Trefoil	Maitland	3732	2622	2314	1931	1310	1945	2981
	Empire	3603	2687	3828	2302		2219	3503
Crown Vetch	Penngift			1501	1727		1506	
Cicer Milk Vetch	Oxley			1062			1221	2928
Sainfoin	Morton T.			842			876	
	Krasnodar			1869			1486	2611
Brome Grass	Saratoga	4880	2259	2012		1766	1200	2476
Orchard Grass	Frode	4574	2418	1674	2820	1260	1559	2105
	Kay	4565	2264	1938	2502	1334	1296	2308
Tall Fescue	Common	5904	2250	1799	2615	1090	1611	2804
Reed Canary	Frontier	5023	2342	1442	2785		1195	2449
Wild Rye	Altai			1471		1830	1159	2793
Wheat Grass	Sodar							
	Streambank			1562			997	2612

Species For Early and Late Pastures
Pounds Per Acre D.M. (Total Yield)

HARVEST 3
(Late Pasture)

SPECIES - Varieties		GUELPH	KAP.	KAP.	K.C.A.T.	N.L.C.A.T	THUNDER BAY
		Seeded 1972 1973-1974 2 yr. Ave. (Oct.21)	Seeded 1972 73,74,75 3 yr. Ave.	Seeded 1973 1974-1975 2 yr. Ave.	Seeded 1972 73,74,75 3 yr. Ave.	Seeded 1972 1973 1 year (Sept. 27)	Seeded 1972 1973 1 year (Oct. 1)
Alfalfa	Saranac	1431	1592	1763	1878	1597	2076
	Vernal	1261	1653	1591	1476	1436	1915
Trefoil	Maitland		1579	1387	1170	2389	2324
	Empire		1183	1457	1239	2269	2403
Crown Vetch	Penngift				1081	2500	
Cicer Milk Vetch	Oxley						1908
Sainfoin	Morton T.						
	Krasnodar			536			2581
Brome Grass	Saratoga	1600	1198	1195		1453	1939
Orchard Grass	Frode	1784	1474	1529	1596	1874	1419
	Kay	1135	1017	1360	928	1537	1028
Tall Fescue	Common	2272		906	1602	2200	1660
Reed Canary	Frontier	1538	1931	880	1491	2380	1879
Wild Rye	Altai			963		2228	2319
Wheat Grass	Sodar						
	Streambank			650		1925	1989

Species for Early and Late Pastures

Seeded 1972

Kapuskasing (Test 6704)

SPECIES - Varieties		Pounds Per Acre D.M. (Total Yield)											
		HARVEST 1 (Early Pasture)				HARVEST 2 (Hay Harvest)				HARVEST 3 (Late Pasture)			
		1973 (June 5)	1974	1975 (Nov.29)	3 year AVE.	1973 (July 30)	1974	1975 (July 4)	3 year AVE	1973	1974	1975 (Sept.19)	3 year AVE.
Alfalfa	Saranac	1063	356	569	663	2711	1797	1962	2157	2113	1002	1592	1569
Trefoil	Vernal	866	369	684	640	2497	2000	1999	2165	1780	1233	1653	1555
	Maitland		514			2993	2523	2351	2622	1586	595	1579	1253
	Empire		348			2289	3147	2625	2687	1151	162	1183	832
Crown Vetch	Penngift		636			2744	2062			1347	65		
Glcer Milk Vetch	Oxley	104	639			2671	2078			1348	218		
Sainfoin	Krasnodar		145			2492	1712			698			
Brome Grass	Saratoga	1555	1036	1298	1296	2558	2314	1906	2259	2335	391	1198	1308
Orchard Grass	Frode	631	619	891	714	2991	2453	1811	2418	2783	1023	1474	1760
	Kay	1171	873	1289	1111	2295	2411	2086	2264	2150	550	1017	1239
Tall Fescue	Common	183	775	786	581	2302	2485	1963	2250	2863	627		
Reed Canary	Frontier	1341	2351	1365	1686	2508	2715	1802	2342	2037	548	1931	1505
Wild Rye Grass	Altai	367	1027			2931	2125			1571	237		
Wheat Grass,Sodar	Streambank	396	894	769	686	2791	2509			1818	289		
LSD	Lb./Ac.		349				357						
CV	(%)		32.4				10.8						

Seeded 1973

Species For Early and Late Pastures
Kapuskasing (Test 6706)
Pounds Per Acre D.M. (Total Yield)

SPECIES - Varieties		HARVEST 1 (Early Pasture)			HARVEST 2 (Hay Harvest)			HARVEST 3 (Late Pasture)		
		1974	1975	2 yrs.	1974	1975	2 yrs.	1974	1975	2 yrs.
			(May 29)	Ave.		(July 14)	Ave.			Ave.
Alfalfa	Saranac	1215	524	869	2495	2466	2480	1527	1999	1763
	Vernal	953	556	754	2344	2096	2220	1231	1952	1591
Trefoil	Maitland	988			2844	1785	2314	1179	1596	1387
	Empire	791			3434	4223	3828	529	2386	1457
Crown Vetch	Penngift	34			1156	1846	1501			
Cicer Milk Vetch	Oxley	18			1127	998	1062			
Sainfoin	Morton T.	721			1426	258	842	290		
	Krasnodar	971	478	724	2639	1100	1869	340	733	536
Brome Grass	Saratoga	988	1440	1214	2928	1097	2012	679	1712	1195
Orchard Grass	Frode	807	920	863	2682	666	1674	1273	1786	1529
	Kay	1563	1254	1408	2799	1078	1938	1078	1643	1360
Tall Fescue	Common	457	766	611	2654	944	1799	735	1078	906
Reed Canary	Frontier	597	1128	862	1731	1154	1442	165	1595	880
Wild Rye	Altai	207	964	585	1760	1182	1471	781	1145	963
Wheat Grass, Sodar Streambank		166	1169	667	1936	1189	1562	221	1080	650
	LSD Lb./Ac.	527			782					
	CV (%)	45.1			20.7					

Species For Early And Late Pastures

Seeded 1972

Kemptonville College of Agricultural Technology

Pounds Per Acre D.M. (Total Yield)

SPECIES-Varieties	HARVEST 1 (Early Pasture)				HARVEST 2 (Hay Harvest)				HARVEST 3 (Late Pasture)			
	1973 (June 6)	1974 (June 13)	1975 (May 29)	3 year AVE.	1973 (July 18)	1974 (July 29)	1975 (July 22)	3 year AVE.	1973 (Oct. 12)	1974 (Oct. 4)	1975 (Oct. 6)	3 year AVE.
Alfalfa Saranac	3154	2120	1654	2309	3700	3154	1846	2900	2524	1639	1470	1878
Alfalfa Vernal	2871	2033	1484	2129	3355	2766	1694	2605	2055	1364	1010	1476
Trefoil Maitland	3127	1888	1367	2127	2454	2139	1199	1931	2098	442	971	1170
Trefoil Empire	2922	1399	1498	1940	2845	2076	1984	2302	2315	484	917	1239
Crown Vetch Penngift	2293	1589	1161	1681	2170	2005	1006	1727	2286	367	591	1081
Cicer Milk Vetch Oxley	1922				1433							
Sainfoin Krasnodar	2198				2205							
Brome Grass Saratoga	3986				3159				1171			
Orchard Grass Frode	3850	2896	1344	2697	3458	3336	1667	2820	1888	855	2046	1596
Orchard Grass Kay	3428	2795	1371	2531	3166	3036	1303	2502	1136	470	1177	928
Tall Fescue Common	3608	3167	1633	2803	3331	2971	1544	2615	1881	1046	1880	1602
Reed Canary Frontier	4554	3395	2023	3324	3091	3438	1825	2785	1707	758	2007	1491
Wild Rye Grass Altai	3184				3406							
Wheat Grass, Sodar Streambank	3163				2790							
LSD LB./AC.	692				593				431			
CV (%)	15.3				14.3				15.8			

Seeded 1973

Species For Early and Late Pastures

N.L.C.A.T. (Test-8004)
Pounds Per Acre D.M. (Total Yield)

SPECIES --Varieties	HARVEST 1 (Early Pasture)			HARVEST 2 (Hay Harvest)			HARVEST 3 (Late Pasture)		
	1974 (July 12)	1975 (May 30)	2 yrs. Ave.	1974 (Oct. 1)	1975 (July 4)	2 yrs. Ave.	1974	1975	2 yrs. (Sept.3) Ave.
Alfalfa	Saranac	3100	1495	2297	2582	2059	2320		1393
	Vernal	3838	1649	2743	2148	2309	2228		977
Trefoil	Maitland	3517	1359	2438	1504	2386	1945		405
	Empire	3730	1103	2416	2034	2405	2219		593
Crown Vetch	Penngift	2379	765	1572	1333	1680	1506		255
Cicer Milk Vetch	Oxley	2735	1078	1906	806	1637	1221		220
Sainfoin	Morton T.	3065	663	1864	657	1096	876		232
	Krasnodar	3670	1191	2430	1607	1365	1486		503
Brome Grass	Saratoga	4997	1607	3302	1672	728	1200		531
Orchard Grass	Frode	3801	1201	2501	1665	1453	1559		862
	Kay	3386	1608	2497	1222	1370	1296		836
Tall Fescue	Common	4192	1119	2655	1277	1946	1611		700
Reed Canary	Frontier	5188	1971	3579	1308	1083	1195		946
Wild Rye	Altai	3595	915	2255	1095	1224	1159		206
Wheat Grass, Sodar Streambank		2960	846	1903	1092	902	997		120
	LSD Lb./Ac.								
	CV (%)								

Seeded 1973

Species For Early and Late Pastures

Thunder Bay Test 7069

Pounds Per Acre D.M. (Total Yield)

SPECIES - Varieties

HARVEST 1
(Early Pasture)

HARVEST 2
(Hay Harvest)

HARVEST 3
(Late Pasture)

1974 1975 2 Yrs.
(June 19) (May 22) Ave.

1974 1975 2 Yrs.
(July 19) Ave.

1974 1975 2 Yrs.
(Sept. 10) Ave.

Alfalfa	Saranac	1641	500	1070	1983	1470
	Vernal	1566	421	993	2257	1386
Trefoil	Maitland	1959	563	1261	1788	373
	Empire	1041	372	706	2100	202
Crown Vetch	Penngift	656			1709	160
Cicer Milk Vetch	Oxley	861			1821	191
Sainfoin	Morton T.	757			2099	126
	Krasnodar	507			1982	260
Brome Grass	Saratoga	3555	1050	2302	1022	314
Orchard Grass	Frode	783	739	761	1437	152
	Kay	2122	716	1419	842	187
Tall Fescue	Common	1077	680	878	1441	205
Reed Canary	Frontier	3275	621	1948	681	211
Wild Rye	Altai	1875	629	1252	1859	141
Wheat Grass, Sodar, Streambank		1446	570	1008	1838	233
LSD	Lb./Ac.	388			310	
CV	(%)	17.6			13.1	

Early - Late Bite

1975 Harvest

Kapuskasing (Test 6710, Seeded 1974)
Pounds Per Acre D.M. (Total Yield)

ZERO NITROGEN

SPECIES-Varieties

	Harvest 1 (May 29)	Harvest 2 (July 29)	Harvest 3 (?)	Season Total
1. Empire Trefoil + Fawn Tall Fescue	1420	2830	1408	5658
2. Empire Trefoil + Frontier Reed Canary	1393	3025	1468	5886
3. Empire Trefoil + Saratoga Brome	1575	3033	1347	5955
4. Fawn Tall Fescue	1190	919	589	2698
5. Frontier Reed Canary	1263	933	237	2433
6. Saratoga Brome	1400	1336	192	2928

NITROGEN

1. Empire Trefoil + Fawn Tall Fescue	1455	2982	1506	5943
2. Empire Trefoil + Frontier Reed Canary	1608	2865	1479	5952
3. Empire Trefoil + Saratoga Brome	1632	3455	1285	6372
4. Fawn Tall Fescue	1021	1934	1204	4159
5. Frontier Reed Canary	1598	1491	568	3657
6. Saratoga Brome	1348	2070	745	4163

Early - Late Bite

1975 Harvest

N.L.C.A.T. (Test-8003, Seeded-1974)

Pounds Per Acre D.M. (Total Yield)

ZERO NITROGEN

SPECIES - Varieties	Harvest 1 (July 2)	Harvest 2 (Aug.19)	Harvest 3	Season Total
1. Empire Trefoil + Fawn Tall Fescue	3977	488		4465
2. Empire Trefoil + Frontier Reed Canary	4119	521		4640
3. Empire Trefoil + Saratoga Brome	4208	587		4795
4. Fawn Tall Fescue	4068	241		4309
5. Frontier Reed Canary	4691	346		5037
6. Saratoga Brome	4914	586		5500
7.				

NITROGEN

1. Empire Trefoil + Fawn Tall Fescue	4078	707		4785
2. Empire Trefoil + Frontier Reed Canary	4474	1129		5603
3. Empire Trefoil + Saratoga Brome	3894	615		4509
4. Fawn Tall Fescue	4645	801		5446
5. Frontier Reed Canary	4511	1072		5583
6. Saratoga Brome	4648	648		5296

Exp. 49181

Early - Late Bite

1975 Harvest

GUELPH

(Seeded 1974)

Pounds Per Acre D.M. (Total Yield)

ZERO NITROGEN

SPECIES - Varieties	Harvest 1 (May 21)	Harvest 2 (July 18)	Harvest 3 (Oct.19)	Season Total
1.Empire Trefoil + Fawn Tall Fescue	2184	4191	3236	9611
2.Empire Trefoil + Frontier Reed Canary	1866	3697	2238	7801
3.Empire Trefoil + Saratoga Brome	2780	4176	2428	9384
4. Fawn Tall Fescue	2267	2414	2774	7455
5. Frontier Reed Canary	2070	1250	1602	4922
6. Saratoga Brome	3167	1747	2122	7036

NITROGEN

1.Empire Trefoil + Fawn Tall Fescue	2572	4575	3254	10401
2.Empire Trefoil + Frontier Reed Canary	2598	3697	2186	8481
3.Empire Trefoil + Saratoga Brome	3212	4183	2434	9829
4. Fawn Tall Fescue	2693	2668	3141	8502
5. Frontier Reed Canary	2930	1571	1672	6173
6. Saratoga Brome	3876	1947	2002	7825

Early - Late Bite

1975 Harvest

Thunder Bay (Test 7075, Seeded 1974)
Pounds Per Acre D.M. (Total Yield)

ZERO NITROGEN

SPECIES - Varieties	Harvest 1 (May 21)	Harvest 2 (July 10)	Harvest 3 (Sept.12)	Season Total
1. Empire Trefoil + Fawn Tall Fescue	848	2975	525	4348
2. Empire Trefoil + Frontier Reed Canary	1389	2257	514	4160
3. Empire Trefoil + Saratoga Brome	1047	3380	724	5151
4. Fawn Tall Fescue	709	1888	223	2820
5. Frontier Reed Canary	1197	1557	394	3148
6. Saratoga Brome	930	2276	627	3833

NITROGEN

1. Empire Trefoil + Fawn Tall Fescue	948	3264	706	4918
2. Empire Trefoil + Frontier Reed Canary	1655	2797	1105	5557
3. Empire Trefoil + Saratoga Brome	1069	3398	1011	5478
4. Fawn Tall Fescue	780	2385	802	3967
5. Frontier Reed Canary	1802	2646	1101	5549
6. Saratoga Brome	1122	3086	1408	5616

Pasture Equipment

N.L.C.A.T. (Test-8001, Seeded 1974)

Pounds Per Acre D.M. (Total Yield)

1975 Harvest

SPECIES - VARIETIES	Harvest 1 (May 30)	Harvest 2 (July 3)	Harvest 3 (Sept.3)	Season Total
Leo Trefoil + Climax Timothy	1546	2285	366	4197
Vernal Alfalfa + Climax Timothy	1805	2089	714	4608
Tetra Alsike + Climax Timothy	1517	2138	---	3655
White Dutch Clover + Climax Timothy	1248	2197	---	3445
Merit Ladino Clover + Climax Timothy	1191	2073	556	3820
Grimm Alfalfa + Climax Timothy	1670	2061	790	4521

Effects of Planting and Harvest Dates on Soy-Fababean Silage Dry Matter Yield

Page 2 of 2

Date of Planting	Variety	Date of Harvest	Silage D.M. Yield (lb/ac)	Rank	% Dry Matter at harvest	Plant Parts - % of Total		
						Leaves	Stems	Pods
May 9	Vansoy Salut	9-2	4665 d	11	41.3	9.9	31.6	58.5
		8-11	4866 d	7	25.6	25.2	31.9	42.9
		8-21	4935 cd	5	36.3	12.3	25.8	60.9
	H. Freya	9-2	4540 d	12	48.9	7.4	25.2	67.4
		8-11	5664 b	2	31.8	15.6	33.5	50.9
		8-21	5060 bcd	4	46.3	10.1	30.9	59.0
		9-2	4785 d	9	57.2	5.7	34.7	59.6
	Amsoy	8-11	5031 cd	13	22.4	39.1	52.8	8.1
		8-21	6411 a	3	25.1	34.1	55.0	10.9
		9-2	7001 a	1	27.8	31.4	51.0	17.6
	Vansoy	8-11	5360 bc	5	26.2	22.4	32.3	45.3
		8-21	5090 bcd	11	31.6	5.3	27.4	67.3
		9-2	4080 d	24	53.6	0.7	23.9	75.4
	Salut	8-11	5080 bcd	12	27.8	18.6	24.5	56.9
		8-21	4589 cd	19	44.8	2.6	20.9	76.5
		9-2	4435 cd	22	63.7	1.0	18.3	80.7
	Herz Freya	8-11	6093 ab	4	43.0	7.4	29.2	63.4
		8-21	5290 bc	6	63.5	2.6	29.4	68.0
		9-2	5112 bcd	10	67.2	6.2	33.4	60.4
May 23	Amsoy	8-11	4725 cd	16	20.1	42.4	55.5	2.1
		8-21	4748 cd	15	22.3	38.7	58.8	2.5
		9-2	6569 a	2	28.8	35.7	54.9	9.4
	Vansoy	8-11	4103 d	23	23.7	31.5	48.2	20.3
		8-21	4546 cd	20	26.8	25.8	43.6	30.6
		9-2	5250 bc	8	28.9	19.1	39.2	41.7
	Salut	8-11	4652 cd	17	23.3	38.1	39.3	28.9
		8-21	5280 bc	7	27.8	22.1	32.7	45.2
		9-2	4645 cd	18	34.0	13.9	32.1	54.0
	Herz Freya	8-11	5234 bc	9	20.5	23.9	37.7	38.4
		8-21	4829 cd	14	29.1	17.6	32.5	49.9
		9-2	4457 cd	21	47.2	5.3	35.9	58.8

EFFECTS OF PLANTING AND HARVEST DATES ON SOY-FABABEAN SILAGE DRY MATTER YIELD

Elora 1975

Page 1 or 2

Date of Planting	Variety	Date of Harvest	Silage D.M. Yield (lb/ac)	Rank	% Dry Matter at harvest	Plant Parts - % of Total		
						Leaves	Stems	Pods
Dates of Planting								
May 9			5298 a	1	41.4	14.3	33.2	52.5
May 23			4920 a	2	27.7	25.7	42.5	31.8
Varieties								
	Amsoy		5747 a	1	24.4	36.9	54.6	9.5
	H. Freya		5169 b	2	45.1	10.5	33.0	56.5
	Salut		4780 b	3	36.9	15.0	28.0	57.0
	Vansoy		4738 b	4	31.8	17.5	35.8	46.7
Dates of Harvest								
		9-2	5194 a	1	43.9	14.2	36.1	49.7
		8-21	5714 a	2	33.9	18.6	37.5	43.9
		8-11	5035 a	3	25.9	27.1	39.9	33.0
May 9	Amsoy		6148 a	1	25.1	34.9	52.9	12.2
	H. Freya		5498 ab	2	57.9	5.4	30.7	63.9
May 23	Amsoy		5347 bc	3	23.7	38.9	56.4	4.7
	Salut		4859 bc	4	28.4	22.6	34.7	42.7
May 9	Vansoy		4843 bc	5	37.1	9.5	27.9	62.6
May 23	H. Freya		4840 bc	6	32.3	15.6	35.4	49.0
May 9	Salut		4701 c	7	45.4	7.4	21.2	71.4
May 23	Vansoy		4633 c	8	26.5	25.5	43.7	30.8
May 9		8-11	5391 a	1	29.9	21.9	34.7	43.4
		8-21	5345 a	2	41.3	11.2	33.2	55.6
May 23		9-2	5230 ab	3	34.7	18.5	40.5	41.0
May 9		9-2	5157 ab	4	53.1	9.8	31.7	58.5
May 23		8-21	4851 bc	5	26.5	26.0	41.9	32.1
		8-11	4679 c	6	21.9	32.4	45.2	22.4
	Amsoy	8-11	4878 d	6	21.3	40.8	54.0	5.1
		8-21	5580 bc	3	23.7	36.4	56.9	7.7
		9-2	6785 a	1	28.3	33.5	53.0	13.5
	Vansoy	8-11	4732 d	10	25.0	27.0	40.2	32.8
		8-21	4818 d	8	29.2	15.6	35.5	48.9

DATE OF PLANTING FABABEANS, K.C.A.T., 1974

	Yield		Date Planted	Date Harvested	
	Silage	Grain lb/A		Silage	Grain
Diana	6109	2889	Apr. 26	Aug. 9	Aug. 28
Herta Froya	6487	2432	Apr. 26	Aug. 9	Aug. 28
Diana	5003	2770	May 8	Aug. 20	Aug. 28
Herta Froya	5373	2210	May 8	Aug. 20	Aug. 28
Diana	5306	2350	May 16	Aug. 20	Aug. 28
Herta Froya	5996	2358	May 16	Aug. 20	Aug. 28
Diana	5391	2194	May 21	Aug. 28	Aug. 28
Herta Froya	6501	2000	May 21	Aug. 28	Aug. 28

L.S.D. - n.s.

C.V. - 18%

Forage Triticales Plus Oats and Barley

Exp: 4706

1975 Harvest
Total Yield Lbs./Ac

01	M ₂ A, X-2802-19N-0M	8416
02	M ₂ A, X-2802-70N-4M-1N-1M-OY	7410
03	M ₂ A, X-2802-70N-4M-2N-1M-OY-3M-OY	8180
04	M ₂ A, X-2802-70N-4M-2N-1M-OY-2B-OY	7755
05	M ₂ A, X-2832-2N-4M-4N-2M-OY	9973
06	M ₂ A, X-2832-29N-4M-6N-2M-OY-3M-OY	7942
07	IA, X-1648-1N-0M-OY-1B-OY	8943
08	IA, X-1648-1N-1M-1Y-5M-OY	8476
09	IA, X-1648-1N-1M-1Y-6M-OY	9857
10	IA, X-1648-1N-1M-1Y-7M-OY	7101
11	IA, X-1648-1N-1M-1Y-9M-OY	7596
12	IRA, X-2142-4N-2M-1N-2M-OY-1M-OY	7791
13	IRA, X-2142-4N-2M-5N-2M-1Y-3M-OY	7278
14	ITA, X-2186-32N-1M-1N-1M-OY-2M-OY	7969
15	ITA, X-2806-3N-1M-4N-1M-OY	9132
16	FS12, 45M-0N	7293
17	Octo Bulk 31	8324
18	Kla X Leuc Pet-Per X 4848 - 12M - OY	7337
19	KOALA "S" X-2091-100Y-105B-2N-3M-OY- 1M-OY	7827
20	KOALA "S" X-2091-100Y-101B-2N-2M-3Y- 2M-OY	5963
21	Scott Oats	8658
22	Laurier Barley	7280

LSD Lbs./Ac 2904

CV. 21.59%

PROVINCIAL VARIETY TRIALS, 1975

ALFALFA: early varieties

	I.V.D. Run 488 (Cut 1, 1975) Guelph	I.V.D. Run 488 (Cut 1, 1975) Ottawa	I.V.D. Run 488 (Cut 1, 1973 Seeding) Ridgetown	I.V.D. Run 488 (Cut 1, 1975) Thunder Bay	Average
Saranac	58.78	61.31	57.99	66.26	
RP-103	57.53	61.95	58.84	64.75	
WL-311	58.70	63.96	---	65.07	
Anchor	54.35	62.69	58.25	64.29	
Nuggett	55.57	61.89	58.12	64.31	
Maris Phoenix	58.37	63.17	---	66.22	
Thor	54.92	62.68	56.30	66.74	
131	58.60	63.17	---	64.55	
Angus	55.92	62.55	57.69	63.94	
530	61.82	64.25	---	65.07	
K1-7	57.29	61.99	---	65.62	
K1-10	53.76	63.20	---	63.83	
CW-5	56.45	64.21	---	66.06	
Pacer	54.06	63.48	---	63.78	
Saranac AR	57.99	63.61	---	66.98	
Honeoye	51.75	---	---	66.26	
EA-91	---	---	60.57	---	

PROVINCIAL VARIETY TRIALS, 1975

Alfalfa: standard varieties

	I.V.D. Run 488 (Cut 1, 1975) Guelph	I.V.D. Run 488 (Cut 1, 1975) Ottawa	I.V.D. Run 488 (1973 seeding) Ridgetown	I.V.D. Run 488 (Cut 1, 1973) New Liskeard	Average
Vernal	61.58	59.90	58.87	66.44	
Aatec	51.36	65.43	57.67	66.43	
WL-218	59.52	66.16	---	---	
Iroquois	56.20	64.15	58.43	64.76	
Valor	46.71	60.74	58.51	64.74	
Polar I	53.51	65.79	---	---	
Weevichek	58.36	64.02	61.08	66.51	
Kodiak	50.44	62.31	60.26	65.00	
K3-11	56.32	63.68	---	---	
Titan	57.08	61.08	61.01	65.74	
Flonike	50.92	63.29	---	---	
Agate	57.59	62.01	---	---	
WL-202	55.44	63.01	61.04	65.11	
Ramsey	50.95	61.19	---	---	
WL-210	54.80	63.66	60.91	66.40	
520	52.86	61.74	59.67	64.82	

PROVINCIAL VARIETY TRIALS, 1975

ALFALFA: standard varieties

	I.V.D. Run 488 (Cut 1, 1975) Guelph	I.V.D. Run 488 (Cut 1, 1975) Ottawa	I.V.D. Run 488 (1973 seeding) Ridgetown	I.V.D. Run 488 (Cut 1, 1973) New Liskeard	Average
Algonquin	55.70	62.50	61.66	66.30	
EA-21	---	---	59.33	65.96	
WL-215	---	---	57.83	64.51	
N7-5	---	---	59.50	66.29	
Anchor	---	---	---	62.06	
Angus	---	---	---	62.91	
EA-91	---	---	---	64.40	
RP-130	---	---	---	63.65	
Thor	---	---	---	64.16	
Nugget	---	---	---	65.45	
Saranac	---	---	---	66.78	

PROVINCIAL VARIETY TRIALS , 1975

ALFALFA: late varieties

I.V.D. Run 488 (1967 Seeding)	
New Liskeard	
	63.41
	65.47
	64.16
	64.41
	65.40
	64.88
	63.56

PROVINCIAL VARIETY TRIALS, 1975

TREFOIL

	I.V.D. Run 488 (Cut 1, 1973) New Liskeard	I.V.D. Run 488 (Cut 1, 1974 seed) Ridgetown	I.V.D. Run 488 (Cut 1, 1975) Thunder Bay	Average
Empire	62.98	56.31	66.31	
Cree	62.86	52.97	64.63	
Carroll	63.63	55.35	65.67	
Z 9035	61.79	61.42	61.41	
Maitland	59.44	54.32	64.02	
Viking	61.88	52.78	61.85	
Leo	62.06	55.95	63.72	
Orsegi	61.56	---	64.64	

PROVINCIAL VARIETY TRIALS, 1975

RED CLOVER

	(Cut 1, 1974) New Liskeard	(Cut 1, 1975) Ottawa	I.V.D. Run 488 (Cut 1, 1975) Thunder Bay	
Krano	---	---	71.30	
Britta	---	---	71.72	
Bora	---	---	71.72	
N7-130			71.53	

PROVINCIAL VARIETY TRIALS, 1975

RED CLOVER

	I.V.D. Run 488 (Cut 1, 1974)	I.V.D. Run 488 (Cut 1, 1975)	I.V.D. Run 488 (Cut 1, 1975)	
	New Liskeard	Ottawa	Thunder Bay	Average
Arlington	64.08	65.02	---	
Ottawa	62.35	65.80	68.63	
Narlac	68.66	61.76	---	
WWR 80	65.82	59.73	---	
WWR 45	65.85	59.57	---	
Dollard	64.41	63.97	---	
Altaswede	65.36	63.47	72.06	
K8-115	61.06	66.03	---	
Ottawa 4N	64.64	63.46	70.31	
Lakeland	65.13	64.44	---	
WWR-5	---	---	---	
WWR-8	---	---	---	
N7-131	---	---	71.32	
Rea	---	---	73.64	
Hungaropoli	---	---	68.96	
Tripo	---	---	72.34	

PROVINCIAL VARIETY TRIALS, 1975

BROMEGRASS

	I.V.D. Run 485 (Cut 1, 1975) Guelph	I.V.D. Run 488 (Cut 1, 1973 seeding) New Liskeard	I.V.D. Run 488 (Cut 1, 1974) New Liskeard	I.V.D. Run 485 (Cut 1, 1974 seeding) Ridgetown	I.V.D. Run 485 (Cut 1, 1975) Thunder Bay	I.V.D. Run 485 (Cut 1) Kemptville	Average
Baylor	57.78	59.52	55.41	63.51	77.26	73.76	
Saratoga	58.32	62.88	58.02	67.46	77.30	74.11	
Redpatch	54.14	62.82	54.83	65.27	78.52	73.96	
Carlton	54.72	62.31	54.75	67.35	77.23	74.81	
S-7380	57.41	56.80	53.74	62.65	79.09	74.45	
Ottawa Syn D-9	55.64	63.56	54.85	67.15	78.53	74.97	
Ottawa Syn D-1	56.98	60.39	56.17	64.14	77.54	73.40	
S-7306-2	61.81	59.23	52.32	69.62	80.42	75.31	
Beacon	57.25	58.20	52.70	62.26	76.85	73.22	
Barton	57.51	60.24	55.45	62.32	77.41	74.82	
New Magna	60.84	58.52	52.40	67.79	79.07	75.00	

PROVINCIAL VARIETY TRIALS, 1975

ORCHARD GRASS

	I.V.D. Run 485 (Cut 1 1975) Guelph	I.V.D. Run 485 (Cut 1 1975) Ridgetown	I.V.D. Run 485 (1974 Seeding) Thunder Bay	Average
Kay	68.21	67.49	76.38	
Frode	65.78	67.04	78.16	
Rideau	60.38	66.44	77.46	
Tardus II	66.57	62.72	77.22	
Nordstern	62.36	68.27	78.53	
Hallmark	62.98	61.76	75.69	
Kall	65.32	62.24	77.54	
Dart	65.03	60.09	78.91	
Juno	65.60	61.93	77.38	
K8-120	69.33	65.03	76.78	
K8-123	63.08	66.12	78.77	
K8-117	65.51	68.78	78.26	
S66-4-47/72	68.52	66.01	76.75	
Dayton	---	58.39	---	
PX-36	---	64.47	---	
Ina	65.79	65.92	77.75	

PROVINCIAL VARIETY TRIALS, 1975

ORCHARD GRASS

	I.V.D. Run 485 (Cut 1 1975) Guelph	I.V.D. Run 485 (Cut 1 1975) Ridgetown	I.V.D. Run 485 (1974 Seeding) Thunder Bay	Average
K8-118	72.80	66.21	79.05	
OX-1	---	64.81	---	
Kitamidori	66.87	63.31	78.14	
Majestic	---	70.66	79.44	
Napier	---	60.11	---	

PROVINCIAL VARIETY TRIALS, 1975

TIMOTHY

	I.V.D. Run 486 (1st cut 1975)	I.V.D. Run 486 (1973)	I.V.D. Run 486 (1st cut 1975)	I.V.D. Run 486 (1974 seeding)	
	Guelph	New Liskeard	Ridgetown	Thunder Bay	Average
Climax	60.70	65.19	66.81	77.88	
Champ	61.90	63.99	64.79	78.12	
Milton	61.22	62.25	65.67	78.79	
Hasca	60.12	63.58	67.59	78.21	
Toro	60.76	62.96	65.23	77.92	
Timfor	58.54	64.72	--	--	
Barmere	64.58	62.01	--	--	
Heilbrink	61.51	60.82	--	--	
Ornia	62.43	66.56	68.09	79.33	
Medon	60.90	64.11	66.13	79.09	
MLM	59.50	62.36	65.51	78.98	
T-49	64.96	64.38	--	--	
T-93	62.18	66.85	--	--	
N7-126	59.26	67.65	--	--	
N7-127	62.97	64.88	67.81	78.82	
Murra	61.73	63.72	66.15	79.47	
Senpcky	61.54	63.01	65.63	78.66	

PROVINCIAL VARIETY TRIALS, 1975

TIMOTHY

	(1st cut 1975) Guelph	(1973) New Liskeard	I.V.D. Run 486 (1st cut 1975) Ridgetown	I.V.D. Run 486 (1974 Seeding) Thunder Bay	Average
Mahndorfer	_____	_____	66.74	78.16	
Winda CIV	_____	_____	70.72	81.43	
Gusto	_____	_____	72.13	79.63	
Basho	_____	_____	66.04	79.29	
CIV 2A	_____	_____	67.20	78.47	
Engmo	_____	_____	_____	78.43	

PROVINCIAL VARIETY TRIALS, 1975

CICER VETCH

	I.V.D. Run 488 (Cut 1, 1974) New Liskeard	I.V.D. Run 488 (Cut 1, 1975) Thunder Bay	Average
Latana	59.38	71.42	
Oxley	62.61	75.85	
O.S. 26	62.03	75.16	
Wyoming	66.29	73.05	
Leo Trefoil	61.52	69.36	

PROVINCIAL VARIETY TRIALS, 1975

TALL FESCUE, REED CANARY, BROME GRASS

I.V.D. Run 488 TALL FESCUE Thunder Bay, 1975 Cut 1			I.V.D. Run 488 REED CANARY Thunder Bay, 1975 Cut 1			I.V.D. Run 488 BROME GRASS Thunder Bay, 1975 Cut 1		
Kasha	T221	69.22	Frontier	T511	71.73	Magna	T811	72.03
Fawn	T311	69.89	Frontier	T521	69.92	Magna	T821	75.52
Fawn	T321	70.85	Rise	T611	69.15	Saratoga	T911	76.94
Kentucky 31	T411	68.35	Rise	T621	68.58	Saratoga	T921	74.27
Kentucky 31	T421	70.85	Castor	T711	71.42			
			Castor	T721	69.72			

CROP: ALFALFA R1

DRY MATTER ANALYSIS

[illegible]

Crop Alfalfa

R.I.

DRY MATTER ANALYSIS

Date	DM	Protein	Est. TDN	%				ppm					Comments
				Ca	Phos	MG	K	S	Mn	Cu	Zn	Se	
Vernal	93.33	18.36		1.48	.29	.23	2.28		29	9	29		
Valor	92.33	16.85		1.53	.28	.23	2.24		32	6	26		
Weevl- chek	92.50	17.60		1.63	.27	.25	2.22		28	5	28		
Titan	93.33	18.36		1.61	.30	.22	2.41		29	11	27		
NL-202	94.74	16.42		1.73	.28	.23	2.26		30	7	28		
NL-210	92.24	17.28		1.56	.28	.22	2.20		18	8	19		
#520	93.22	17.28		1.65	.29	.22	2.28		31	7	25		
RP 103	92.83	16.20		1.51	.24	.23	2.16		31	6	24		
Anchor	92.50	15.77		1.57	.23	.26	2.09		34	6	22		
Nuggatt	92.83	15.77		1.49	.24	.22	2.10		30	5	23		
Thor	92.83	15.77		1.64	.24	.25	2.12		33	11	23		
Angus	92.50	16.20		1.54	.25	.23	2.15		33	6	25		
Algonquin	92.50	18.36		1.55	.28	.23	2.31		27	8	27		
Iroquois	93.20									6			

DRY MATTER ANALYSIS

[illegible]

R.I.
1st cut

DRY MATTER ANALYSIS

[illegible]

DRY MATTER ANALYSIS

Date	DM	Protein	Est. TDN	Ca	Phos	% Mg	K	S	Mn	ppm Cu	Zn	Se	Comments
Frode	95.65	16.42		.41	.25	.15	1.79		42	5	15		Thunder Bay
Frode	95.65	11.10		.39	.27	.16	3.19		41	8	20		Ridgetown
Frode	91.30	15.75		.38	.27	.22	3.09		48	8	25		Guelph
Kay	91.30	15.98		.41	.27	.15	1.65		47	11	16		Thunder Bay
Kay	95.65	10.80		.38	.30	.16	3.37		55	14	20		Ridgetown
Kay	91.30	15.85		.34	.28	.22	2.99		52	9	20		Guelph
Hallmark	93.33	13.61		.37	.26	.19	2.45		46	6	19		Bulked Sample
Rideau	93.33	14.82		.45	.28	.20	2.75		56	5	20		Bulked Sample
Kall	93.33	14.19		.40	.28	.20	2.75		44	3	20		Bulked Sample
Ina	93.33	14.90		.39	.27	.19	2.60		42	5	19		Bulked Sample
Nordstern	93.33	13.61		.47	.29	.20	2.80		33	6	14		Bulked Sample
Juno	93.33	13.72		.39	.29	.19	2.56		42	7	18		Bulked Sample
K8-123	93.33	14.04		.41	.25	.18	2.41		43	5	17		Bulked Sample
Dart	93.33	15.21		.42	.27	.21	2.71		50	5	19		Bulked Sample
Tardus II	93.22	15.01		.37	.26	.18	2.56		43	6	22		Bulked Sample
Kitamidori	93.33	15.01		.38	.27	.18	2.53		44	6	21		Bulked Sample
S66-4-47/72	93.33	17.17		.52	.28	.20	2.87		50	6	22		Bulked Sample

DRY MATTER ANALYSIS

[illegible]