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ONTARIO FORAGE CROP INVESTIGATIONS



1980 REPORT ON FIELD TRIALS OF VARIETIES AND MIXTURES

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

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Early Alfalfa Varieties

CURRENT STATUS OF VARIETIES - NOV. 20, 1980

<u>Variety</u>	<u>Entered</u>	<u>Official Status</u>	<u>Station Years of Data</u>
Anchor	O.F.C.C.	Recommended, Pub. 296	-
Angus	"	" "	-
Apollo	"	" "	-
Banner	"	" "	-
Ceres	"	" "	-
Citation	"	" "	-
Classic	"	" "	-
Pacer	"	" "	-
Primal	"	" "	-
Saranac	"	" "	-
Thor	"	" "	-
Vista	"	" "	-
Atlas	OSECO	Support for lic., Deferred(3)	-
Trident	NAPB (PGA)	Recommend in 296, 1981	-
Answer	NAPB (Speare)	Recommend in 296	-
PS 10	Pickseed	Drop	-
CW 4	Cal/West(Pickseed)	Not supported 1980, Testing completed	12
P455A (Blazer)	OSECO	Support for lic., retest for bacterial wilt	9
130	Dekalb	Support for lic, recommend if licenced	9
S.Q. Syn 2	Ste.Foy Res. Sta.	Support ofr lic., retest for bacterial wilt	9
Hi-Phy	U.C.O.		4
WL 312	OSECO		4
Epic	OSECO		4
G 7730	NAPB		4
CW 27	Pickseed		5
CW 62	Pickseed		5
77-2	U. of Guelph		4
78-1	U. of Guelph		4
Honeoye	U.C.O.	Not supported, re-examine in 1981	12
532	Pioneer		5
LAB 75	Labonte		0
Multileaf	O.F.C.C.		0
CW 940	Pickseed		0
PS 79049	Pickseed		0

Early Alfalfa Varieties (cont'd.)

<u>Variety</u>	<u>Entered by</u>	<u>Official Status</u>	<u>Station Years of Data</u>
LSC-004E	Landis		0
LSC-008E	Landis		0
LSC-003E	Landis		0
78015	N.K.		0
78013	N.K.		0
WL 313	OSECO		0
Peak	OSECO		0
76-105	U. of Guelph		0
77-101	U. of Guelph		0

Early alfalfa. Varieties eligible for consideration.

		Total Yield (Kg/ha)	
1974 Seeding		Honeoye	Angus
Guelph	1975	9231	8946
	1976	12930	12411
Ottawa	1975	11161	11539
Thunder Bay	1975	6351	6065
1975 Seeding			
Ridgetown	1976	13111	14032
	1977	13853	14569
Kapuskasing	1976	7605	7500
	1977	6639	6578
1979 Seeding			
Ridgetown	1980	15560	15839
Guelph	1980	12831	12716
Kemptville	1980	11692	11426
Thunder Bay	1980	5344	4895
Mean:	North	6485	6260
	South	12546	12685
	Province	10526	10543
Station years of data		12	

Early alfalfa. Varieties eligible for consideration.

		Total Yield (kg/ha)				S.Q.	
		Angus	CW 4	Angus	P455A	130	Syn 2
1977 Seeding							
	Ridgetown 1978	13053	11380				
	1979	13728	13098				
	Guelph 1978	10981	9879				
	1979	12594	12274				
	Kemptville 1978	9456	9302				
	Ottawa 1978	10101	9948				
	New Liskeard 1978	7723	6955				
1978 Seeding							
	Ridgetown 1979	14128	13939	14128	14786	15043	15147
	1980	14145	12335	14145	13196	13794	14087
	Guelph 1979	13838	12813	13838	14011	13457	13943
	1980	12789	11425	12789	12688	13047	13944
	Ottawa 1979	9434	9051	9434	9086	10006	10486
1979 Seeding							
	Ridgetown 1980			15839	16130	15583	15318
	Guelph 1980			12716	13567	13236	13226
	Kemptville 1980			11426	11521	11920	12161
	Thunder Bay 1980			4895	4726	4828	5617
Mean:							
	North	7723	6955	4895	4726	4828	5017
	South	12204	11404	13039	13123	13261	13539
	Province	11831	11033	12134	12190	12324	12659
Station years of data			12		9	9	9

Expt. 1050. Early alfalfa, Ridgetown. Seeded 1978.

Variety	Yield (Kg/ha) 1980				1979	2-year
	Cut 1	Cut 2	Cut 3	Total	Total	Mean
Banner	6464	4695	3462	14621	14893	14757
Angus	5855	4423	3866	14145	14128	14137
531	6003	4374	3725	14102	14800	14451
S.Q.Syn. 2	6158	4330	3599	14087	15147	14617
130	5898	4354	3542	13794	15043	14419
P.S. 10	5783	4155	3719	13657	15048	14353
Citation	5953	4307	3332	13592	14332	13962
Iroquois	6418	4039	3101	13558	14428	13993
Vista	5819	4196	3393	13408	14876	14142
Thor	5666	4285	3402	13354	15082	14218
Ceres	5643	4050	3608	13301	15027	14164
Classic	5787	3966	3529	13282	14340	13811
Answer	5637	4113	3458	13208	14681	13945
Apollo	5848	3974	3379	13200	14352	13776
Blazer	5468	4321	3406	13196	14786	13991
Trident	5440	4079	3517	13035	14457	13746
Anchor	5095	4296	3390	12780	14686	13733
CW 4	5088	4065	3182	12335	13939	13137
Saranac	4902	4086	3276	12264	14639	13452
Pacer	5347	3890	3016	12252	14342	13297
LSD 5%	906	342	548	1064	882	
Mean	5714	4200	3445	13358	14651	
C.V. %	11.2	5.76	11.24	5.63	4.26	

Expt. 2785. Early alfalfa, Guelph. Seeded 1978.

Variety	Yield (Kg/ha) 1980				1979 Total	2-year Mean
	Cut 1	Cut 2	Cut 3	Total		
Banner	6201	4430	3634	14265	14457	14361
S.Q. Syn. 2	6147	4312	3485	13944	13943	13944
531	5951	3835	3742	13528	13288	13408
Thor	5756	3915	3696	13368	13806	13587
Anchor	5910	3979	3410	13300	12776	13038
Vista	5825	4129	3318	13271	14073	13672
130	5773	3839	3435	13047	13457	13252
Citation	5764	3961	3281	13005	14621	13813
P.S. 10	5730	3825	3315	12870	13126	12998
Angus	5231	3964	3594	12789	13838	13314
Answer	5486	3846	3440	12772	13024	12898
Ceres	5335	4122	3298	12756	13487	13122
Apollo	5687	3765	3299	12751	13427	13089
Pacer	5642	3664	3445	12750	12817	12784
Blazer	5532	3684	3472	12688	14011	13350
Saranac	5389	3818	3458	12665	13785	13225
Classic	6092	3298	3146	12536	13409	12973
Trident	5449	3592	3272	12313	13293	12803
CW 4	5249	3182	2994	11425	12813	12119
LSD 5%	620	430	384	888	1000	
Mean	5692	3850	3407	12950	13550	
C.V. %	7.71	7.90	7.98	4.85	5.22	

Expt. 1061. Early alfalfa, Ridgetown. Seeded 1979.

Variety	Yield (kg/ha) 1980			Total
	Cut 1	Cut 2	Cut 3	
Citation	8345	4528	3807	16681
Hi-Phy	7653	4630	4063	16346
CW27	8297	4078	3802	16177
Blazer	8192	4102	3837	16130
Iroquois	8175	4087	3698	15960
Banner	7456	4714	3773	15943
Angus	8299	4077	3463	15839
CW62	7884	4241	3636	15761
Ceres	7301	4212	4131	15644
130	7430	4145	4008	15583
Honeyoye	7542	4386	3632	15560
Apollo	7969	4000	3568	15537
Anchor	7714	4217	3589	15520
Thor	7556	4166	3601	15323
S.Q.Syn. 2	7187	4369	3761	15318
Pioneer 532	7174	4557	3577	15308
Saranac	7554	4215	3494	15263
OAC 77-2 Syn.2	7817	3729	3642	15188
EPIC	7374	4189	3620	15183
G7730	7580	3996	3554	15130
Pacer	7412	4125	3474	15011
WL312	6769	4528	3685	14981
78-1 Syn. 2	6744	4158	3816	14718
Vista	6617	4367	3698	14683
LSD 5%	975	379	383	1039
Mean	7585	4242	3705	15533
C.V. %	9.13	6.35	7.35	4.76

Expt. 2801. Early alfalfa, Guelph. Seeded 1979.

Variety	Yield (Kg/ha) 1980			Total
	Cut 1	Cut 2	Cut 2	
P445A	5626	3460	4481	13567
Banner	5893	3487	4179	13558
78-1 Syn.2	5347	3802	4281	13430
HI-PHY	5704	3498	4191	13393
WL-312	5830	3455	4042	13327
Pacer	5641	3658	3953	13251
130	5574	3473	4188	13236
S.Q. Syn.2	5692	3259	4275	13226
Iroquois	5500	3430	4245	13175
Saranac	5389	3670	4095	13154
Vista	5974	3271	3880	13125
Citation	5815	3250	3947	13012
Honeyoye	5590	3525	3716	12831
Pioneer 532	5660	3490	3582	12733
Angus	5527	3292	3896	12716
Ceres	5265	3369	4077	12711
Anchor	5547	3098	3947	12593
CW 27	5607	3041	3940	12588
Apollo	5188	3357	4021	12566
G7730	5555	3104	3865	12524
CW 62	5338	3099	4033	12470
Thor	5365	3328	3620	12314
LL5510A	5338	3143	3643	12124
OAC 77-2 Syn.2	4971	2990	3683	11645
LSD 5%	403	411	696	939
Mean	5539	3356	3991	12886
C.V. %	5.17	8.71	12.39	5.18

Expt. 3032. Early alfalfa, Kemptville. Seeded 1979.

Variety	Yield (Kg/ha) 1980			
	Cut 1	Cut 2	Cut 3	Total
Pioneer 532	4958	4439	3304	12701
Iroquois	4973	4138	3219	12330
S.Q. Syn. 2	4700	4193	3268	12161
HI--PHY	4451	4239	3444	12134
Vista	4497	4238	3367	12102
Anchor	4644	3931	3503	12079
Thor	4597	3974	3372	11943
130	4663	4148	3109	11920
WL312	4231	4289	3363	11883
Pacer	4558	3974	3296	11828
Honeyoye	4528	4089	3076	11692
Citation	4626	3837	3201	11664
CW 62	4422	3943	3256	11621
Blazer	4556	3771	3194	11521
Apollo	4243	4001	3263	11508
78-1 Syn. 2	4144	4052	3306	11502
Banner	4655	3620	3210	11484
Angus	4590	3647	3189	11426
Ceres	4431	3892	3094	11417
Saranac	4386	3911	3019	11316
G7730	4419	3753	3036	11207
Epic	3962	3910	3142	11015
OAC 77-2 Syn.2	4369	3549	2896	10814
CW 27	3994	3632	3094	10719
LSD 5%	429	567	366	880
Mean	4483	3965	3217	11666
C.V. %	6.8	10.17	8.09	5.36

Expt. 7133. Early alfalfa, Thunder Bay. Seeded 1979.

Variety	Yield (Kg/ha) 1980		
	Cut 1	Cut 2	Total
S.Q. Syn. 2	3212	2405	5617
Honeyoye	2840	2504	5344
Iroquois	2915	2242	5157
78-1 Syn. 2	2695	2416	5111
Vista	2687	2251	4938
Angus	2680	2215	4895
Thor	2642	2220	4861
130	2418	2410	4828
Citation	2634	2190	4824
Pioneer 532	2619	2172	4792
Pacer	2648	2092	4740
Saranac	2620	2115	4735
Blazer	2527	2199	4726
Anchor	2523	2141	4664
Ceres	2622	2020	4642
Banner	2519	2115	4634
Epic	2553	2075	4628
HI-PHY	2444	2171	4615
OAC. 77-2 Syn. 2	2571	1984	4555
G7730	2517	1999	4515
WL312	2464	1987	4451
Apollo	2501	1934	4435
CW 62	2431	1953	4384
CW 27	2082	1973	4055
LSD 5%	391	327	600
Mean	2598	2158	4756
C.V. %	10.70	10.78	8.96

+ .5% 1.697
10% 1.310

$$LSD = \sqrt{\frac{2MSE}{N}} \times t_{df error}$$

Reps 4
Tots 9
Error = 36

1978 Bacterial Wilt Ratings

1. Average ratings, 5 replicates, 1978 test.

Trident	1.93	Vernal	2.48
CW4	1.94	Syn C.T.	2.52
T7801	2.00	120	2.56
CW2	2.12	PS 10	2.58
130	2.13	S.Q. Syn 2	2.64
Answer	2.25	P445A	2.69
74D111	2.26	524	2.72
WL220	2.31	545	2.75
CW3	2.44	CW68	2.85
531	2.45	Dupuits	3.20

C.V. : 8.50%

L.S.D. (5%) .58

$$LSD (10\%) = .45$$

2. Average ratings from two tests of varieties eligible for licensing.

a. 1976 and 1977 tests

CW9	2.19	Atlas	2.48
MaPB51	2.30	G747	2.52
MLM02019	2.40	MLM02020	2.60
MLM02018	2.44	Dupuits	3.78

b. 1975 and 1976 tests

Victor	2.38	MLM02016	2.54
Olympic	2.40	MLM02017	2.81
K3-15	2.45	Dupuits	4.02
521	2.52		

3. Average ratings 1977 and 1978 tests:

Trident	1.87	Answer	2.29	PS10	2.41
CW4	2.06	120	2.34	524	2.62
WL220	2.18	Syn C.T.	2.35	Dupuits	3.13
531	2.27	545(540)	2.40	Vernal	2.35

PHYTOPHTHORA RATINGS, RECOMMENDED ALFALFA VARIETIES

DECEMBER 1980

<u>Early Alfalfa</u>	<u>% Plants, Resistant to Phytophthora Root Rot*</u>
Anchor	3
Angus	5
Answer	66
Apollo	40
Banner	2
Ceres	2
Citation	2
Classic	7
130	
Pacer	8
Primal	9
Saranac	2
Thor	1
Trident	71
Vista	1
<u>Medium Alfalfa</u>	
Algonquin	3
120	39
Futura	0
Iroquois	1
Magnum	4
Pickstar	4
520	1
524	1
Titan	2
Volor	2
Vernal	2
WL215	4
Weevilchek	2

*Determined in University of Minnesota phytophthora trials.
Plants with little or no injury are classed as resistant.
Resistance ratings are relative to a rating of 43 for Agate.

PHYTOPHTHORA RATINGS, NON-RECOMMENDED ALFALFA VARIETIES

DECEMBER 1980

Early Alfalfa

% Plants, Resistant to
Phytophthora Root Rot

Asate = 43,

Blazer (P455A)	19
Hi-Phy	26
WL312	25
Epic	34
G7730	**
CW27	*
CW62	35
77-2	*
78-1	*
Honeoye	0
S.Q. Syn 2	
532	*
Lab 75	29
Multileaf	*
CW940	**
PS79049	*
LSC-004E	*
LSC-008E	*
LSC-003E	*
78015	*
78013	**
WL313	5
Peak	**
76-105	*
77-101	*

Medium Alfalfa

Glory (02019)	3
74D111	
CW3	30
CW68	2
T7801	**
K6-11	*
76-1	*
CW69	16
Luz 84	*
MLM02025	*
Lab 78	17
Oneida	**
CW6306	*
PS79051	*
CW927	**
LSC7801	*
LSC006	*
LSC007	*
79161 (Polar II)	**
76-102	*

Resistance figures determined in University of Minnesota
phytophthora trials, and are relative to a rating of 43
for Agate.

*Resistance not claimed on entry of variety.

**Resistance claimed, no supporting data on hand as yet.

Pathogenicity of Verticillium albo-atrum on Ontario recommended and three resistant cultivars of alfalfa.

Variety	# of Times tested	Total no.	Mean Disease Rating	% Res.
Titan	1	25	3.9	0
Vista	1	25	4.2	0
Anchor	1	25	3.4	20
Citation	2	44	3.3	25
Banner	1	30	3.8	20
Algonquin	1	25	3.8	0
Vernal	1	20	3.2	20
Iroquois	1	19	4.0	10
Pickstar	3	45	4.05	0
WL 524	3	43	3.0	11.5
WL 215	3	43	3.6	5
WL 220	3	45	3.16	15.5
Ceres	1	22	3.5	18
Pacer	1	47	3.0	31
CW 2	1	24	3.6	12
Weevlchek	1	51	3.2	32
Vertus	1	27	2.3	59
Maris Kabul	1	21	1.5	70
78015	1	52	1.6	67

Other species:

White clover - shows definite symptoms when inoculated.

Alsike clover - also shows symptoms.

Red clover - few symptoms. Verticillium has not been recovered.

Information supplied by:

Dr. L. V. Busch,
Dept. of Environmental Biology,
O.A.C.

Medium Alfalfa Varieties

CURRENT STATUS OF VARIETIES - NOV. 20, 1980

<u>Variety</u>	<u>Entered by</u>	<u>Official Status</u>	<u>Station Years of Data</u>
Algonquin	O.F.C.C.	Recommended, Pub. 296	-
120	"	" "	-
Futura	"	" "	-
Iroquois	"	" "	-
Magnum	"	" "	-
Pickstar	"	" "	-
520	"	" "	-
Titan	"	" "	-
Valor	"	" "	-
Vernal	"	" "	-
WL 215	"	" "	-
Weevlchek	"	" "	-
Glory (02019)	MLM	Supported for lic. Deferred (3)	-
524	Pioneer	Licensed, Recommend in 296, 1981	-
WL 220	OSECO	Not supported 1980, Testing complete	13
CW 2	Pickseed	Not supported, 1980 Testing complete	13
545	Pioneer	Not supported 1980, Testing complete	13
74D111	Landis	Not supported 1980, re-examine 1981	10
CW 3	Pickseed	Not supported 1980, re-examine 1981	11
CW 68	Pickseed	Not supported 1980, re-examine 1981	11
T 7801	Thompson	Not supported 1980, re-examine 1981	10
K6-11	N.K.		4
76-1	U. of Guelph		4
CW 69	Pickseed		5
Luz 80	Malon		0
MLM 02025	MLM		0
Lab 78	Labonte		0
Oneida	O.F.C.C.		0
CW 6306	Pickseed		0
PS 79051	Pickseed		0
CW 927	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 7801	Landis		0
LSC 006	Landis		0
LSC 007	Landis		0
79161	King Grain		0
76-102	U. of Guelph		0

Medium alfalfa. Varieties eligible for consideration.

		Total Yield (Kg/ha)			
1977 Seeding		Iroquois	WL220	CW 2	545
Ridgetown	1978	14711	14826	15078	14718
	1979	14660	13979	14747	14719
Guelph	1978	11194	11484	10772	11266
	1979	13492	12371	13224	12431
Kemptville	1978	9925	11200	9655	10010
Ottawa	1978	9888	10087	9014	9050
New Liskeard	1978	8094	7326	7092	8096
1978 Seeding					
Ridgetown	1979	14598	14159	13936	13807
	1980	12784	13083	12869	12430
Guelph	1979	12092	12038	12391	12422
	1980	13445	13026	13899	13242
Ottawa	1979	10420	10670	9367	9598
Kapuskasing	1980	6668	6264	5256	5576
Mean:	North	7381	6795	6174	6836
	South	12474	12448	12268	12154
	Province	11690	11578	11331	11336
Station years of data			13	13	13

Medium alfalfa. Varieties eligible for consideration.

		Total Yield (Kg/Ha)					
1978 Seeding		Iroquois	74D111	T7801	Iroquois	CW3	CW68
Ridgetown	1979	14598	14879	14322	14598	14223	14063
	1980	12784	12017	12525	12784	11387	12232
Guelph	1979	12092	12002	12514	12092	11916	12064
	1980	13445	13389	13255	13445	13052	13616
Ottawa	1979	10420	9612	9961	10420	8323	8944
Kapuskasing	1980	6668	6607	6784	6668	4980	6075
1979 Seeding							
Ridgetown	1980	14608	15582	15293	14608	14817	15544
Guelph	1980	13674	13810	14040	13674	13491	14473
Kemptville	1980	12246	11946	11721	12246	10978	11499
Thunder Bay	1980	5680	5914	5548	5680	5301	5777
Blenheim	1980				18605	17392	18379
Mean: North		6174	6261	6166	6174	5141	5926
South		12983	12905	12954	13608	12842	13424
Province		11622	11576	11596	12256	11442	12061
Station years of data			10	10		11	11

Expt. 1051. Medium alfalfa, Ridgetown. Seeded 1978.

Variety	Yield (Kg/ha) 1980				1979 Total	2-year Mean
	Cut 1	Cut 2	Cut 3	Total		
Pioneer 524	6551	4610	3266	14427	14398	14413
Atra 50 <i>529</i>	6116	4502	3239	13857	13956	13907
WL-215	5576	4304	3385	13265	13705	13485
EA-21	5808	4290	3037	13135	13126	13131
Dedalb 120	6119	3928	3086	13133	14306	13720
WL-220	5428	4084	3571	13083	14159	13621
Algonquin	5757	3989	3163	12909	13843	13376
CW 2	5500	4052	3317	12869	13936	13403
Iroquois	5469	4149	3166	12784	14598	13691
Angus	5481	4163	3123	12767	14009	13388
Valor	5700	4077	2933	12710	13836	13273
Vernal	5490	4024	3195	12709	14669	13689
Weevlcheck	5179	4068	3335	12582	14628	13605
Titan	5433	4171	2955	12559	14027	13293
T7801	5381	3957	3187	12525	14322	13424
Pioneer 545	5654	4068	2708	12430	13807	13119
CW 68	4889	4229	3115	12232	14063	13148
74D111	4838	4011	3168	12017	14879	13448
CW 3	4882	3922	2583	11387	14223	12805
LSD 5%	1064	510	465	1437	1071	
Mean	5539	4137	3133	12809	14221	
C.V. %	13.58	8.71	10.49	7.93	5.33	

Expt. 2786. Medium alfalfa, Guelph. Seeded 1978.

Variety	Yield (Kg/ha) 1980				1979	2-year
	Cut 1	Cut 2	Cut 3	Total	Total	Mean
Vernal	6386	4317	3541	14244	12994	13619
CW 2	5696	4503	3700	13899	12391	13145
Valor	6419	3781	3465	13664	12892	13278
Dekalb 120	6624	3507	3523	13654	13398	13526
CW 68	5978	4073	3565	13616	12064	12840
Algonquin	6122	4089	3351	13562	12733	13148
Iroquois	5867	4001	3577	13445	12092	12769
Pioneer 524	5948	3762	3708	13418	12313	12866
74D111	6062	3681	3646	13389	12002	12696
T7801	6019	3805	3431	13255	12514	12885
Pioneer 545	6043	3875	3325	13242	12422	12832
CW 3	5887	3821	3344	13052	11916	12484
WL-215	6193	3371	3471	13035	12227	12631
WL-220	5899	3605	3521	13026	12038	12532
Titan	6134	3528	3344	13006	11327	12167
EA-21	5918	3522	3539	12979	12551	12765
Weevilcheck	5773	3637	3467	12876	12429	12653
Atra 50	5829	3155	3212	12196	12643	12420
LSD 5%	507	692	304	1049	1385	
Mean	6044	3780	3485	13309	12386	
C.V. %	5.90	12.88	6.14	5.54	7.87	

Expt. 6462. Medium alfalfa, Kapuskasing. Seeded 1978.

Variety	Yield (kg/ha) 1980		
	Cut 1	Cut 2	Total
Algonquin	3734	3290	7024
Vernal	4383	2425	6808
T7801	3741	3043	6784
Iroquois	3494	3174	6668
74D111	3685	2921	6607
Titan	3808	2757	6566
Valor	3549	2968	6517
Atra 50	3703	2640	6344
EA-21	3493	2844	6337
WL-220	3560	2705	6264
Angus	3741	2522	6263
CW68	3125	2950	6075
WL-215	3524	2380	5904
Pioneer 524	3123	2769	5892
Weevilcheck	3472	2275	5747
Dekalb 120	3329	2413	5742
Pioneer 545	3278	2297	5576
CW 2	2912	2344	5256
CW 3	2765	2215	4980
LSD 5%	868	630	1252
Mean	3496	2681	6176
C.V. %	11.82	11.18	9.65

Expt. 1060. Medium alfalfa, Ridgetown. Seeded 1979.

Variety	Yield(kg/ha) 1980			
	Cut 1	Cut 2	Cut 3	Total
CW 69	8182	3636	4048	15867
OAC 76-1 Syn.1	7734	3962	3969	15665
74D111	7675	3847	4060	15582
CW 68	7979	3341	4224	15544
Titan	8275	3403	3706	15383
T7801	7886	3684	3722	15293
Angus	8117	3229	3936	15282
Weevilcheck	7712	3360	4163	15235
Atra 50	7749	3453	3963	15165
EA-21	7990	3479	3694	15163
Algonquin	8221	3241	3682	15145
Vernal	7861	3258	3960	15080
WL-215	7436	3496	4079	15011
CW 3	7944	3174	3699	14817
Valor	7326	3372	3976	14674
Iroquois	7093	3568	3947	14608
K6-11	8179	2942	3382	14504
LSD 5%	1115	303	364	1148
Mean	7845	3438	3895	15177
C.V. %	10.00	6.19	6.58	5.32

Expt. 2802. Medium alfalfa, Guelph. Seeded 1979.

Variety	Yield (Kg/ha) 1980			
	Cut 1	Cut 2	Cut 3	Total
CW 68	6060	4255	4158	14473
T7801	6217	3959	3864	14040
EA-21	6355	3918	3765	14038
Angus	6328	3843	3837	14007
Pioneer	5963	4214	3825	14002
OAC 76-1 Syn.1	5865	4110	3917	13892
WL 215	5682	4059	4136	13877
74D111	5864	3884	4061	13810
Vernal	5860	3999	3848	13706
Iroquois	5791	3907	3976	13674
RP-25	6386	3497	3615	13498
CW 3	5685	3820	3987	13491
Weevlcheck	6093	3636	3648	13376
CW 69	5684	3668	3844	13195
Valor	5669	3757	3649	13075
Algonquin	5526	3598	3772	12897
K6-11	6359	3001	3313	12673
LSD 5%	686	525	400	884
Mean	5964	3831	3836	13631
C.V. %	8.10	9.65	7.33	4.56

Expt. 3033. Medium alfalfa, Kemptville. Seeded 1979.

Variety	Yield (kg/ha) 1980			Total
	Cut 1	Cut 2	Cut 3	
Iroquois	4365	4599	3282	12246
Valor	4142	4692	3388	12221
Vernal	4533	4371	3276	12180
OAC 76-1 Syn.1	4453	4492	3232	12177
Angus	4361	4235	3489	12084
74D111	4132	4543	3272	11946
EA-21	4215	4122	3514	11850
Titan	4104	4419	3305	11828
T7801	4279	4240	3202	11721
Algonquin	4126	4273	3238	11638
CW69	3816	4237	3572	11625
CW68	3898	4342	3259	11499
Atra 50	4336	4025	3126	11487
Weevlcheck	4048	4060	3224	11332
WL-215	3611	4277	3357	11244
K6-11	4438	3853	2818	11109
CW-3	3825	3936	3217	10978
LSD 5%	462	549	270	846
Mean	4158	4277	3281	11716
C.V. %	7.81	9.03	5.79	5.08

Expt. 7134. Medium alfalfa, Thunder Bay. Seeded 1979.

Variety	Yield (Kg/ha) 1980		
	Cut 1	Cut 2	Total
Titan	3783	2727	6510
Vernal	3908	2496	6404
Angus	3694	2525	6219
OAC 76-1 Syn. 1	3595	2524	6119
74D111	3657	2257	5914
Valor	3483	2399	5882
CW69	3617	2260	5877
Atra 50	3437	2396	5833
CW 68	3500	2277	5777
EA - 21	3533	2219	5753
Iroquois	3430	2250	5680
Weevilcheck	3333	2330	5663
WL-215	3366	2291	5658
Algonquin	3356	2289	5646
K6-11	3562	2030	5592
T7801	3285	2262	5548
CW3	3120	2181	5301
LSD 5%	405	341	589
Mean	3509	2336	5846
C.V. %	8.13	10.28	7.08

PHYTOPHTHORA RATINGS, RECOMMENDED ALFALFA VARIETIES

DECEMBER 1980

<u>Early Alfalfa</u>	<u>% Plants, Resistant to Phytophthora Root Rot*</u>
Anchor	3
Angus	5
Answer	66
Apollo	40
Banner	2
Ceres	2
Citation	2
Classic	7
130	
Pacer	8
Primal	9
Saranac	2
Thor	1
Trident	71
Vista	1
<u>Medium Alfalfa</u>	
Algonquin	3
120	39
Futura	0
Iroquois	1
Magnum	4
Pickstar	4
520	1
524	1
Titan	2
Volor	2
Vernal	2
WL215	4
Weevlc hek	2

*Determined in University of Minnesota phytophthora trials.
Plants with little or no injury are classed as resistant.
Resistance ratings are relative to a rating of 43 for Agate.

PHYTOPHTHORA RATINGS, NON-RECOMMENDED ALFALFA VARIETIES

DECEMBER 1980

<u>Early Alfalfa</u>	<u>% Plants, Resistant to Phytophthora Root Rot</u>
Blazer (P455A)	19
Hi-Phy	26
WL312	25
Epic	34
G7730	**
CW27	*
CW62	35
77-2	*
78-1	*
Honeoye	0
S.Q. Syn 2	
532	*
Lab 75	29
Multileaf	*
CW940	**
PS79049	*
LSC-004E	*
LSC-008E	*
LSC-003E	*
78015	*
78013	**
WL313	5
Peak	**
76-105	*
77-101	*
<u>Medium Alfalfa</u>	
Glory (02019)	3
74D111	
CW3	30
CW68	2
T7801	**
K6-11	*
76-1	*
CW69	16
Luz 84	*
MLM02025	*
Lab 78	17
Oneida	**
CW6306	*
PS79051	*
CW927	**
LSC7801	*
LSC006	*
LSC007	*
79161 (Polar II)	**
76-102	*

Resistance figures determined in University of Minnesota phytophthora trials, and are relative to a rating of 43 for Agate.

*Resistance not claimed on entry of variety.

**Resistance claimed, no supporting data on hand as yet.

Pathogenicity of Verticillium albo-atrum on Ontario recommended and three resistant cultivars of alfalfa.

Variety	# of Times tested	Total no.	Mean Disease Rating	% Res.
Titan	1	25	3.9	0
Vista	1	25	4.2	0
Anchor	1	25	3.4	20
Citation	2	44	3.3	25
Banner	1	30	3.8	20
Algonquin	1	25	3.8	0
Vernal	1	20	3.2	20
Iroquois	1	19	4.0	10
Pickstar	3	45	4.05	0
WL 524	3	43	3.0	11.5
WL 215	3	43	3.6	5
WL 220	3	45	3.16	15.5
Ceres	1	22	3.5	18
Pacer	1	47	3.0	31
CW 2	1	24	3.6	12
Weevilchek	1	51	3.2	32
Vertus	1	27	2.3	59
Maris Kabul	1	21	1.5	70
78015	1	52	1.6	67

Other species:

White clover - shows definite symptoms when inoculated.

Alsike clover - also shows symptoms.

Red clover - few symptoms. Verticillium has not been recovered.

Information supplied by:

Dr. L. V. Busch,
Dept. of Environmental Biology,
O.A.C.

Bird's-foot Trefoil Varieties

CURRENT STATUS OF VARIETIES - Nov. 20, 1980

<u>Variety</u>	<u>Entered by</u>	<u>Official Status</u>	<u>Station Years of Data</u>
Empire	O.F.C.C.	Recommended, Pub. 296	-
Leo	O.F.C.C.	" "	-
Maitland	O.F.C.C.	" "	-
Viking	O.F.C.C.	" "	-
KO-4	N.K.	Not supported 1980, re-examine 1981	9
Dawn	NAPB	Not supported, 1980, re-examine 1981	7
Mirabel	O.F.C.C.		7
NC-83	O.F.C.C.		3
Kentucky Ecotype	O.F.C.C.		3
RC3SP3	U. of Guelph		3
RC4SY2	U. of Guelph		2
RC3SY3	U. of Guelph		1
01004	MLM		0
PS79055	Pickseed		0

Birdsfoot trefoil varieties eligible for consideration.

		<u>Seeded 1976¹</u>		<u>Seeded 1978²</u>		<u>Seeded 1979³</u>			
		<u>Mean yields</u>		<u>Mean yields</u>		<u>Mean yield</u>			
<u>Station</u>		<u>1977 and 1978</u>		<u>1979 and 1980</u>		<u>1980</u>		<u>Grand mean</u>	
<u>years</u>	<u>Variety</u>	<u>Cut 1</u>	<u>Total</u>	<u>Cut 1</u>	<u>Total</u>	<u>Cut 1</u>	<u>Total</u>	<u>Cut 1</u>	<u>Total</u>
9	KO-4	4529	6985			4681	8227	4579	7399
9	Leo	5017	7307			5063	9095	5032	7903
7	Dawn			5266	6789	5313	9322	5286	7875
7	Mirabel			5168	6666	5074	9419	5128	7846
7	Leo			5347	6954	5063	9095	5225	7872

¹ 1977 yields from Ridgetown, Ottawa and Kapuskasing. 1978 yields from Ottawa, Elora and Kapuskasing.

² 1979 yields from Ottawa, Thunder Bay and Ridgetown. Ottawa and Thunder Bay have only Cut 1 data. 1980 yields from Ridgetown only.

³ Data from Elora, Kapuskasing and Kemptville.

Provincial trefoil test. Seeded 1978.

Variety	Ottawa*		Thunder Bay*		Ridgetown				Mean yield	
	1979		1979		1979		1980		Cut 1 Total	
	Cut 1	Total	Cut 1	Total	Cut 1	Total	Cut 1	Total	Cut 1	Total
Maitland	5284	5284	4685	4685	5772	8991	5542	8683	5321	6911
Viking	5488	5488	4271	4271	5702	8953	5412	8705	5218	6854
Leo	5367	5367✓	4879	4879✓	5252	8651✓	5888	8918✓	5347	6954✓
Carroll	5957	5957	4366	4366	5023	8404	5330	8343	5169	6768
Dawn	6222	6222✓	4341	4341✓	5266	8357✓	5236	8236✓	5266	6789✓
Mirabel	5673	5673	4524	4524	5154	8290	5321	8178	5168	6666
Empire	5978	5978	4699	4699	4783	7216	5162	8431	5156	6581
LSD 5%	573	573	769	769	665	876	519	831		
Mean	5710	5710	4537	4537	5279	8408	5413	8499		
C.V. (%)	6.76	6.76	11.4	11.4	8.48	7.02	6.45	6.58		

* Only Cut 1 data from these locations.

Provincial trefoil test. Seeded 1979. 1980 yield data.

Variety	Forage yield (kg/ha)							
	Elora		Kapuskasing		Kemptville		Mean	
	Cut 1	Total	Cut 1	Total	Cut 1	Total	Cut 1	Total
Mirabel	5859	9440	3429	7749	5933	11067	5074	9419
Dawn	6655	10170	3330	7072	5955	10724	5313	9322
RC3 SP3	6427	9653			5850	10472	6139	10063
Maitland	5985	9136	2826	6050	5767	10385	4859	8524
NC-83	6425	9999	3282	6968	5528	10276	5078	9081
Carroll	6538	10114	3521	7307	5544	10276	5201	9232
Leo	6191	9820	3529	7204	5469	10262	5063	9095
Empire	6527	9649	2217	6260	5413	9962	4719	8624
Viking	5712	9106	2987	6530	5489	9816	4729	8484
KO-4	5546	8799	3110	6146	5387	9735	4681	8227
Kentucky	5870	8988	2604	5676	4906	9429	4460	8031
RC3 Syn 3	6145	9380						
RC4 Syn 2	6572	9927						
LSD 5%	331	465	467	876	700	821		
Mean	6174	9552	3121	6742	5567	10218		
C.V. (%)	4.5	4.1	8.8	7.6	8.7	5.6		

Expt. 1053. Provincial trefoil test, Ridgetown. Seeded 1978.

A: TR 73.20

Variety	Yield (kg/ha)				
	1979		1980		
	Cut 1	Total	Cut 1	Cut 2	Total
Maitland	5772	8991	5542	3141	70108683
Viking	5702	8953	5412	3292	70048705
Leo	5252	8652	5888	3030	70018918
Carroll	5023	8404	5330	3013	70218343
Dawn	5266	8357	5236	3000	70088236
Mirabel	5154	8290	5321	2857	70278178
Empire	4783	7216	5162	3269	70038431
LSD 5%	665	876	519	789	831
Mean	5279	8408	5413	3086	8499
C.V. (%)	8.48	7.02	6.45	17.2	6.58

Expt. 2547. Provincial trefoil test, Elora. Seeded 1979.

180
A-TELOR79

Variety	Seedling year yield 1979	Yield (kg/ha)				Total
		Cut 1 80 06 24	% Flower	Cut 2 80 09 27	% Flower	
Mirabel	6554 ¹	5859	18	3580	58	7027 9440
Dawn	7008	6655	9	3515	63	7008 10170
RC3 SP3	7092	6427	21	3406	56	7030 9653
Maitland	6800	5985	95	3151	95	7010 9136
NC-83	6730	6425	10	3574	33	7029 9999
Carroll	7313	6538	8	3576	38	7021 10114
Leo	6743	6191	6	3629	33	7001 9820
Empire	7227	6527	9	3122	38	7003 9649
Viking	7064	5712	95	3394	59	7004 9106
KO-4	6429	5546	21	3253	65	7026 8799
Kentucky Eco.	6351	5870	93	3118	93	7028 8988
RC3 Syn 3	7482	6145	18	3235	48	omit 9380
RC4 Syn 2	6757	6572	13	3355	44	7031 9927
LSD 5%	537	331		274		465
Mean	6888	6174		3378		9552
C.V. (%)	5.43	4.5		6.8		4.1

¹ Seeding year yields not included in mean.

Expt. 3037. Provincial trefoil test, Kemptville. Seeded 1979.

A-TKemp79

Variety	Yield (kg/ha)		Total
	Cut 1	Cut 2	
Mirabel	5933	5134	7027 11067
Dawn	5955	4769	7008 10724
RC3 SP3	5850	4621	7030 10472
Maitland	5767	4618	7010 10385
NC-83	5528	4748	7029 10276
Carroll	5544	4732	7021 10276
Leo	5469	4793	7001 10262
Empire	5413	4549	7003 9962
Viking	5489	4327	7004 9816
KO-4	5387	4348	7026 9735
Kentucky Eco.	4906	4523	7028 9429
LSD 5%	700	458	821
Mean	5567	4651	10218
C.V. (%)	8.72	6.82	5.57

Expt. 6511. Provincial trefoil test, Kapuskasing. Seeded 1979.

A-71179

Variety	Yield (kg/ha)		Total
	Cut 1	Cut 2	
Mirabel	3429	4320	7027 7749
Dawn	3330	3742	7008 7072
Maitland	2826	3224	7010 6050
NC-83	3282	3686	7029 6968
Carroll	3521	3786	7021 7307
Leo	3529	3675	7001 7204
Empire	2217	4043	7003 6260
Viking	2987	3543	7004 6530
KO-4	3110	3036	7026 6146
Kentucky Eco.	2604	3072	7028 5676
LSD 5%	467	579	876
Mean	3121	3621	6742
C.V. (%)	8.79	9.38	7.63

Trefoil Variety Test. Seeded 1980. Seeding Year Data.

Variety	Yield (kg/ha)		
	Ridgetown	Elora	Mean
Leo	3671	3066	3369
MLM 01004	3661	3227	3444
RC4 Syn 2	3792	3150	3471
NC-83	3637	3136	3387
PS 79055	3914	3098	3506
Empire	4050	2985	3518
Kentucky Ecotype	3686	2957	3322
Viking	3952	2839	3396
Maitland	3470	2810	3140
LSD 5%	401	417	
Mean (kg/ha)	3759	3029	
C.V. (%)	7.31	14.0	

Red Clover Varieties

CURRENT STATUS OF VARIETIES - Nov. 20, 1980

<u>Variety</u>	<u>Entered by</u>	<u>Official Status</u>	<u>Station Years of Data</u>
Arlington	O.F.C.C.	Recommended, Pub. 296	-
Florex	O.F.C.C.	" "	-
Lakeland	O.F.C.C.	" "	-
Ottawa	O.F.C.C.	" "	-
Prosper I	O.F.C.C.	" "	-
Bytown	O.R.S.	Licenced, Supported for lic. 1974 Def.	-
WWR 80	OSECO	Drop	-
Tristan	OSECO		2
Redland II	NAPB		2
Ruby	MLM		0
7801	Landis		0

RIDGETOWN

ARK 79.80

EXPT 1062		PROV. RED CLOVER TEST 79 SEEDED			1980
CODE	NAME	CUT 1	CUT 2	CUT 3	TOTAL kg/ha
4003	Ottawa	4953.81	3846.81	3327.28	12127.89
4030	Redland II	4836.50	3414.15	3591.90	11842.55
4029	Tristan	4747.87	3412.55	3353.29	11513.72
4002	Lakeland	4685.13	3308.73	3457.87	11451.73
4017	K8-115 (Florex)	4600.93	3162.31	3312.02	11075.25
4027	Prosper I	4828.93	3253.08	2993.10	11075.12
4023	Arlington	4549.35	3161.15	3288.61	10999.11
LSD 5% (kg/ha)		767.56	403.69	524.76	1114.11
Total Mean (kg/ha)		4743.20	3365.54	3332.00	11440.74
CV		10.89	8.07	10.60	6.55

KAPUSKASING

A-RCX 7980

EXPT 6559		PROV. RED CLOVER TEST		79 SEEDED	1980
CODE	NAME	CUT 1	CUT 2	CUT 3	TOTAL kg/ha
4017	K8-115 (Florex)	2001.07	3894.13	0.0	5895.20
4027	Prosper I	1658.75	3929.36	0.0	5588.11
4023	Arlington	1256.72	4015.02	0.0	5271.74
4002	Lakeland	1375.83	3804.78	0.0	5180.60
4029	Tristan	1354.41	3815.43	0.0	5169.84
4030	Redland II	1462.64	3297.53	0.0	4760.17
4003	Ottawa	1195.22	3131.95	0.0	4327.17
LSD 5% (kg/ha)		370.18	569.76	0.0	824.97
Total Mean (kg/ha)		1472.09	3698.31	0.0	5170.39
CV		14.13	8.66	0.0	8.96

White Clover Varieties

CURRENT STATUS OF VARIETIES - OCT. 1, 1980

<u>Variety</u>	<u>Entered by</u>	<u>Official Status</u>	<u>Station Years of Data</u>
Merit	O.F.C.C.	Recommended, Pub. 296	-
Pilgrim	O.F.C.C.	Licensed 1961	7
Ladino	O.F.C.C.	Licensed	7
Common	O.F.C.C.		7
Sacramento	T. Szego	Not supported in Nov., discuss Jan 1981	7
Szarvasi	Pickseed	" " " " " 1981	7

White clover variety trials. Seeded 1979. 1980.

Variety	Yield (kg/ha)						1980		Grand mean	
	Guelph		Kemptonville		Ottawa		Mean		7 station yrs	
	Cut 1	Total	Cut 1	Total	Cut 1	Total	Cut 1	Total	Cut 1	Total
Szarvasi	2249	8594	3440	7285	1924	4668	2538	6849	2852	5202
Ladino	1865	7992	3781	7847	1657	4449	2434	6763	2955	5276
Merit	2302	8598	3774	7660	2133	5589	2736	7282	2787	5255
Sacramento	2039	8215	3099	6501	1820	4623	2319	6446	2700	4930
Pilgrim	2348	8442	3175	7112	2094	4680	2539	6745	2786	5050
Common	2101	6977	3102	4681	2216	3330	2473	4996	3043	4390
LSD .05	386	1008	629	1070	283	413				
Mean	2151	8136	3305	6848	1974	4557	2507	6514	2854	5017
C.V. (%)	14.5	10.0	12.3	10.4	11.6	7.3				

White clover variety trials. Seeded 1978.

Variety	1979 Ridgetown yield			Thunder Bay			1980			Yield (kg/ha)	
				1979						Mean	
	Cut 1	Cut 2	Total	Cut 1	Total	Cut 1	Cut 2	Total		Cut 1	Total
Ladino	5107	1711	6818	2632	2632	327	1552	1882		2689	3777
Merit	4341	2167	6507	2701	2701	367	1471	1838		2470	3682
Common	4883	952	5836	2833	2833	317	908	1226		2678	3299
Sacramento	4779	1863	6642	2464	2464	235	1363	1598		2493	3568
Szarvasi	5238	2023	7260	2636	2636	463	1499	1962		2779	3953
Pilgrim	4573	1932	6504	2894	2894	258	1297	1555		2575	3651
LSD .05	965	362		438	438	195	143	293			
Mean	4820	1775	6595	2693	2693	328	1349	1677		2614	3655
C.V. (%)	13.3	13.6		10.8	10.8	39.4	7.0	11.58			

A: WCG 77.78

White clover variety trial. Seeded 1977. Guelph.

Variety	Yield (kg/ha) 1978	
	Cut 1	Total
Sacramento	4467	8005 4467
Szarvasi	4012	8006 4012
Ladino	5315	8002 5315
Pilgrim	4161	8001 4161
Common	5847	8003 5847
Merit	3892	8004 3892
Mean	4616	4616
C.V. (%)	16.7	16.7

reject - CV
SRB Det 1995

WHITE CLOVER - GUELPH

SEEDED 1979

HARVESTED 1980

kg/ha A: WCG 79.80

CULTIVAR	CUT 1	CUT 2	CUT 3	CUT 4	TOTAL
Pilgrim	2348	2002	1410	2683	8001 8442
Ladino	1865	2044	1582	2500	8002 7992
Common	2101	2022	1089	1764	8003 6977
Merit	2302	2036	1437	2823	8004 8598
Sacramento	2039	2034	1546	2596	8005 8215
Szarvasi	2249	2057	1605	2684	8006 8594
LSD .05	386	261	365	309	1008
CV	14.5%	10.3%	20.4%	9.9%	10.0%

KEMPTVILLE

A-WCKEMP 7790

EXPT 3034		PROV. WHITE CLOVER TEST		79 SEEDED	1980 HARVESTED
CODE	NAME	CUT 1	CUT 2	CUT 3	TOTAL kg/ha
8002	Ladino	3781.21	2140.91	1925.36	7847.47
8004	Merit	3773.88	1970.70	1915.88	7660.46
8006	Szarvasi	3440.46	2060.64	1783.81	7284.90
8001	Pilgrim	3175.31	2163.59	1773.25	7112.15
8005	Sacramento	3099.42	1862.45	1538.72	6500.59
8003	Common	3102.23	777.52	801.65	4681.39
LSD 5% (kg/ha)		627.93	417.12	397.85	1069.99
Total Mean (kg/ha)		3305.41	1820.30	1623.11	6847.81
CV		12.28	15.14	16.27	10.37

WHITE CLOVER - OTTAWA

SEEDED 1979

HARVESTED 1980

kg/ha

A: WCO79-80

CULTIVAR	CUT 1	CUT 2	CUT 3	TOTAL
Pilgrim	2094	1856	731	8001 4680
Ladino	1657	2029	763	8002 4449
Common	2216	737	377	8003 3330
Merit	2133	2595	861	8004 5589
Sacramento	1820	2139	664	8005 4623
Szarvasi	1924	2149	595	8006 4668
LSD .05	283	288	179	413
CV	11.6%	12.1%	21.7%	7.3%

THUNDER BAY

A:WCTB 8.80

EXPT 7123		WHITE CLOVER TEST		78 SEEDED	1980 HARVESTED
CODE	NAME	CUT 1	CUT 2	CUT 3	TOTAL kg/ha
8006	Szarvasi	462.66	1498.85	0.0	1961.51
8002	Ladino	327.27 327.27	1554.75	0.0	1882.02
8004	Merit	366.88	1471.47	0.0	1838.35
8005	Sacramento	235.34	1362.62	0.0	1597.97
8001	Pilgrim	258.35	1297.21	0.0	1555.56
8003	Common	317.32	908.36	0.0	1225.68
LSD 5% (kg/ha)		194.70	142.68	0.0	292.53
Total Mean (kg/ha)		327.97	1348.88	0.0	1676.85
CV		39.42	7.02	0.0	11.58

Brome Grass Varieties

CURRENT STATUS OF VARIETIES - Nov. 20, 1980

<u>Variety</u>	<u>Entered by</u>	<u>Official Status</u>	<u>Station Years of Data</u>
Baylor	O.F.C.C.	Recommended, Pub. 296	-
Beacon	"	" "	-
Blair	"	" "	-
Saratoga	"	" "	-
Tempo	"	" "	-
Bromex (K1-105)	N.K.	Recomm. in 296, 1981 if licenced in time	-
Jubilee (13009)	MLM	Licenced, Deferred (4)	-
13010	MLM	Not supported 1980, re-examine 1981	9
13011	MLM	Supported for lic. 1980, Deferred (1)	9
S 7855	O.F.C.C.		9
S 8590	O.F.C.C.		9
S 8800	O.F.C.C.		3

Bromegrass

	1979 Yield kg/ha 1978 Seeding			1980 Yield kg/ha 1978 Seeding			1980 Yield kg/ha 1979 Seeding			Mean
	Ridgetown	Thunder Bay	Ottawa	Ridgetown	Thunder Bay	Ottawa	Elora	Kemptville	Ottawa	
Baylor	8494	4696	7773	11841	7909	7536	13987	11648	7672	9062
MLM13010	8284	4605	7811	11014	8172	7334	12210	11712	7443	8732
MLM13011	8443	5800	7660	10730	8350	7537	13756	12181	7722	9131
S7855	8694	4490	7799	11830	7617	7276	13580	11235	8218	8971
S8590	8204	4340	7568	11228	7431	7590	13129	10699	8075	8696

ONTARIO BROMEGRASS TESTS

1980 hay yields from 1978 seedings

Variety or Strain	Yield (D.M. kg/ha)		Total
	Cut 1	Cut 2	
<u>Expt 1056</u>		<u>Ridgetown</u>	
Saratoga	8093	4660	12753
Baylor	7349	4492	11841
S-7855	7434	4396	11830
S-8590	7081	4145	11228
MLM13010	6942	4072	11014
MLM13011	6453	4277	10730
LSD (5% kg/ha)	859	678	989
Mean (kg/ha)	7225	4341	11566
C.V. (%)	7.9	10.3	5.7
<u>Expt 7125</u>		<u>Thunder Bay</u>	
MLM13011	4828	3523	8350
MLM13010	4873	3299	8172
Saratoga	4659	3368	8028
Baylor	4647	3262	7909
S-7855	4256	3361	7617
S-8590	4434	2997	7431
LSD (5% kg/ha)	467	235	508
Mean (kg/ha)	4616	3302	7918
C.V. (5%)	6.7	4.7	4.3

ONTARIO BROMEGRASS TEST

1980 hay yields from 1979 seeding

Expt 2803

Elora

Variety or Strain	Yield (D.M. kg/ha)			Total
	Cut 1	Cut 2	Cut 3	
Tempo	10208	3129	1808	15145
S-8800	9416	2907	1759	14082
Baylor	9398	2756	1833	13987
Blair	8911	3301	1745	13957
Beacon	9300	2991	1590	13881
MLM13011	8377	3528	1852	13756
Barton	8993	3062	1668	13722
S-7855	8849	3044	1687	13580
S-8590	8825	2739	1565	13129
Jubilee	8414	2849	1781	13044
Saratoga	7827	3216	1876	12920
MLM13010	7537	2981	1693	12210
LSD (5%)	1386	341	275	1421
Mean	8837	3042	1738	13618
C.V. (%)	10.9	7.8	11.0	7.2

ONTARIO BROMEGRASS TEST

1980 hay yields from 1979 seeding

Expt 3031

Kemptville

Variety or Strain	Yield (D.M. kg/ha)		Total
	Cut 1	Cut 2	
MLM13011	6682	5500	12181
MLM13010	6280	5432	11712
Baylor	6348	5300	11648
Beacon	6037	5467	11504
Tempo	5898	5338	11236
S-7855	6220	5015	11235
Saratoga	6259	4929	11188
Jubilee	5489	5315	10804
Blair	5688	5089	10777
S-8590	5611	5088	10699
S-8800	5842	4833	10675
Barton	5605	4803	10408
LSD (5% kg/ha)	1005	722	1376
Mean (kg/ha)	5996	5176	11172
C.V. (%)	11.6	9.7	8.5

Ontario Bromegrass Tests

Expt. 4783 Ottawa

Variety or strain	1980 Hay yields from 1978 seeding		
	Yield DM kg/ha		Total
	Cut 1	Cut 2	
Saratoga	5697	2267	7964
S-8590	5203	2386	7590
MLM 13011	5106	2431	7537
Baylor	5280	2256	7536
Tempo	5126	2239	7365
MLM 13010	5095	2239	7334
S7855	5122	2155	7276
LSD (5% kg/ha)	N.S.	N.S.	N.S.
C.V. (%)	7.4	12.5	7.2
Mean (kg/ha)	5233	2282	7515

Ontario Bromegrass Tests

Expt. 4792 Ottawa

Variety or strain	1980 Hay yields from 1979 seeding Yield DM kg/ha)		
	Cut 1	Cut 2	Total
Barton	5290	3261	8551
Beacon	5324	3150	8474
S-7855	5060	3158	8218
Saratoga	5287	2852	8139
S-8590	5209	2866	8075
Jubilee	5091	2798	7888
MLM13011	4671	3051	7722
Blair	4917	2804	7722
Baylor	4704	2968	7672
S-8800	5080	2499	7579
Tempo	4791	2728	7519
MLM13010	4591	2852	7443
LSD (5% kg/ha)	N.S.	N.S.	615
C.V. (%)	7.3	11.5	6.5
Mean (kg/ha)	5001	2916	7917

Orchard Grass Varieties

CURRENT STATUS OF VARIETIES - NOV. 20, 1981

<u>Variety</u>	<u>Entered by</u>	<u>Official Status</u>	<u>Station Years of Data</u>
Hallmark	O.F.C.C.	Recommended, Pub. 296	-
Juno	"	" "	-
Ina	"	" "	-
Napier	"	" "	-
Sumas	"	" "	-
Kay	"	" "	-
Orion (K3-9)	N.K.	Supported for lic., Deferred (3)	-
K2-8	N.K.	Supported for lic., Deferred (3)	-
Dayton	OSECO	Not supported 1980, Testing complete	22
Comet	N.K.	Not supported 1980, Testing complete	17
WWH 92	OSECO	Not supported 1980, Re-examine 1981	15
OK-SF19	O.R.S.	Not supported 1980, Re-examine 1981	9
Hawk	NAPB		1
Crown	NAPB		1
04012	MLM		1
OK-WH-19	O.R.S.		1
OR-WH	O.R.S.		1

SUMMARY OF VARIETIES ELIGIBLE FOR CONSIDERATION

1975 SEEDING

	Ridgetown		
	1976	1977	2 year mean
	Total	Total	
Hallmark	10290	9119	9705
Dayton	9451	8620	9036

1976 SEEDING

	Kemptville		Ottawa		4 year mean
	1977	1978	1977	1978	
Hallmark	9903	8249	7959	6662	8193
Dayton	8880	8248	8025	6596	7937
Comet	9821	8213	8531	5739	8076

1977 SEEDING

	Ridgetown		Guelph	New Liskeard		4 year mean
	1978	1979	1978	1978		
Hallmark	9107	8532	10824	8528		9248
Dayton	8757	8719	9393	7795		8666
Comet	8242	8337	10842	7354		8694
WWH92	8650	7590	10209	7902		8588

1978 SEEDING

	Guelph		Ottawa		Kapuskasing		Thunder Bay		8 year mean
	1979	1980	1979	1980	1979	1980	1979	1980	
Hallmark	11516	9480	8011	7136	6196	6587	3518	5893	7292
Dayton	10989	8344	6664	9160	5428	6251	3938	6305	7135
Comet	11017	9186	6188	7350	5683	6504	3744	5681	6919
WWH92	11032	7977	7062	7885	6119	6235	3188	5041	6817

1979 SEEDING

	Ridgetown	
	1980	
	11405	
Hallmark		
WWH92	10656	

SUMMARY OF 1978 SEEDING

YIELD IN KG/HA

	Guelph		Ottawa		Kapuskasing		Thunder Bay		4 station 2 year mean
	1979	1980	1979	1980	1979	1980	1979	1980	
Sumas	11821	8932	7405	8979	6620	6874	4150	5797	7572
Kay	11573	8138	6947	8646	5977	6354	5010	6675	7415
K2-8	11357	8633	7156	8295	7019	6550	4360	5708	7385
Orion	11956	8684	7036	7509	6801	6598	3853	6124	7320
Hallmark	11516	9480	8011	7136	6196	6587	3518	5893	7292
OK-SF19	10605	8068	6649	8294	6921	6336	4442	6204	7190
Juno	11442	8542	6939	7474	6123	6474	4073	6094	7145
Napier	12120	8802	6819	9285	5301	6325	2761	5740	7144
Dayton	10989	8344	6664	9160	5428	6251	3938	6305	7135
Ina	11211	8640	7289	7890	5984	6210	3707	5699	7079
Comet	11017	9186	6188	7350	5683	6504	3744	5681	6919
WWH92	11032	7977	7062	7885	6119	6235	3188	5041	6817

ONTARIO ORCHARDGRASS TEST

1980 YIELD FROM 1978 SEEDING

Expt. 2787.

Guelph

Variety	Cut 1	Cut 2	Cut 3	Total
Hallmark	3646	3601a	2233a	9480a
Comet	3820	3120abcd	2246a	9186ab
Sumas	3851	2849cd	2232a	8932abc
Napier	3485	3119abcd	2198ab	8802abcd
Orion	3528	3373ab	1782cde	8683abcd
Ina	3544	3202abc	1893abcde	8639abcd
K2-8	3735	3043bcd	1855bcde	8633abcd
Juno	3592	2810cd	2139abc	8541bcd
Dayton	3593	2624d	2126abc	8343bcd
Kay	3491	2911bcd	1737de	8139cd
OK-SF19	3353	3033bcd	1682e	8068cd
WWH92	2959	2961bcd	2057abcd	7977d
LSD 5% (Kg/ha)	553	441	322	797
Total Mean (Kg/ha)	3550	3054	2015	8619
C.V. -	10.80	10.01	11.08	6.41
	N.S.			

ONTARIO ORCHARDGRASS TEST

1980 YIELD FROM 1978 SEEDING

Expt. 4783.

Ottawa

Variety	Cut 1	Cut 2	Total
Napier	7233a	2052	9285a
Dayton	6942ab	2218	9160a
Sumas	6711abc	2268	8979ab
Kay	6679abc	1967	8646abc
K2-8	6269abcde	2026	8295abcd
OK-SF19	6411abcd	1884	8295abcd
Ina	5729bcde	2162	7891abcd
WWH92	5694bcde	2191	7885abcd
Orion	5396cde	2113	7509bcd
Juno	5766bcde	1708	7474cd
Comet	5351de	1999	7350cd
Hallmark	5029e	2107	7136d
LSD 5% (Kg/ha)	1335	323	272
Total Mean (Kg/ha)	6101	2058	8159
C.V.	12.89	10.89	10.81
		N.S.	

ONTARIO ORCHARDGRASS TEST

1980 YIELD FROM 1978 SEEDING

Expt. 6087.

Kapuskasing

Variety	Cut 1	Cut 2	Total
Sumas	3463a	3411	6874
Orion	3185abc	3413	6598
Hallmark	3043bcd	3544	6587
K2-8	3268ab	3281	6549
Comet	3074bcd	3430	6504
Juno	3299ab	3175	6474
Kay	3163abc	3190	6353
OK-SF19	3177abc	3159	6336
Napier	3193abc	3132	6325
Dayton	3116abcd	3134	6250
WWH.92	2819cd	3416	6235
Ina	2792d	3417	6209
LSD 5% (Kg/ha)	323	366	522
Total Mean (Kg/ha)	3133	3309	6441
C.V.	7.14	7.66	5.62
		N.S.	N.S.

ONTARIO ORCHARDGRASS TEST

1980 YIELD FROM 1978 SEEDING

Expt. 7124.

Thunder Bay

Variety	Cut 1	Cut 2	Total
Kay	4500	2175	6675
Dayton	4127	2178	6305
OK-SF19	4224	1980	6204
Orion	4228	1896	6324
Juno	3983	2111	6094
Hallmark	3694	2199	5893
Sumas	3815	1983	5798
Napier	3858	1882	5740
K2-8	3867	1841	5708
Ina	3588	2111	5699
Comet	3546	2135	5681
WWH92	3097	1945	5042
LSD 5% (Kg/ha)	764	290	855
Total Mean (Kg/ha)	3877	2036	5913
C.V.	13.67	9.86	10.02
	N.S.	N.S.	N.S.

ONTARIO ORCHARDGRASS TEST
1980 YIELD FROM 1979 SEEDING

Expt. 1063.

Ridgetown

Variety	Cut 1	Cut 2	Total
Ina	7272	4247	11519
Hallmark	6875	4530	11405
Napier	7036	4320	11356
Orion	6639	4683	11322
MLM14012	6765	4551	11316
Sumas	6902	4402	11304
Hawk	6706	4569	11275
Juno	6863	4371	11234
K2-8	6668	4351	11019
OK-SF-19	6470	4474	10944
Kay	6625	4273	10898
OR-WH	6462	4369	10831
Crown	6467	4280	10747
WWH92	6106	4551	10657
OK-WH-19	6292	4084	10376
LSD 5% (Kg/ha)	879	489	937
Total Mean (kg/ha)	6676	4404	11080
C.V. =	9.22	7.77	5.92
	N.S.	N.S.	N.S.

Reed Canary Grass

CURRENT STATUS OF VARIETIES - OCT. 1, 1980

<u>Variety</u>	<u>Entered by</u>	<u>Official Status</u>	<u>Station Years of Data</u>
Rise	O.F.C.C.	Recommended, Pub. 296	-
Frontier	O.F.C.C.	Recommended, Pub. 296	-
Grove	O.F.C.C.	Licensed	3
Vantage	NAPB		4
Castor	O.F.C.C.		4

ONTARIO REED CANARY GRASS TESTS

1980 yields from 1979 seeding

Variety or Strain	Yield (D.M. kg/ha)		Total
	Cut 1	Cut 2	
<u>Expt 1064</u>	<u>Ridgetown</u>		
Vantage	8994	4395	13389
Rise	8134	4683	12817
Frontier	8418	4373	12791
Grove	7957	3963	11921
Castor	7574	4115	11690
LSD (5% kg/ha)	1300	794	996
Mean (kg/ha)	8215	4306	12522
C.V. (%)	10.3	12.0	5.2
<u>Expt 3038</u>	<u>Kemptville</u>		
Frontier	7084	5085	12169
Vantage	7029	4920	11949
Rise	6533	5012	11546
Castor	5808	4568	10376
Grove	4352	4743	9094
LSD (5% kg/ha)	756	423	954
Mean (kg/ha)	6161	4866	11027
C.V. (%)	8.0	5.7	5.6

ONTARIO REED CANARYGRASS TESTS

1980 yields from 1979 seeding

Variety or strain	Yield (DM Kg/ha)		Total
	Cut 1	Cut 2	
<u>Expt. 4795</u>		<u>Ottawa</u>	
Grove	4416	5010	9426
Vantage	4726	4549	9275
Frontier	4531	4586	9117
Castor	4696	4135	8831
Rise	4745	3954	8700
LSD (5% kg/ha)	N.S.	608	N.S.
Mean (kg/ha)	4623	4447	9070
C.V. (%)	5.3	8.9	6.1
<u>Expt. 6058</u>		<u>Kapuskasing</u>	
Frontier	4133	4892	9025
Vantage	3868	4563	8430
Rise	3727	4559	8287
Castor	3405	4167	7572
Grove	2832	4341	7173
LSD (5% kg/ha)	946	756	1305
Mean (kg/ha)	3593	4504	8098
C.V. (%)	14.0	8.9	8.6

Timothy Varieties

CURRENT STATUS OF VARIETIES - Nov. 20, 1980

<u>Variety</u>	<u>Entered by</u>	<u>Official Status</u>	<u>Station Years of Data</u>
Toro	O.F.C.C.	Recommended, Pub. 296	-
Basho	"	" "	-
Champ	"	" "	-
Itasca	"	" "	-
Timfor	"	" "	-
Climax	"	" "	-
Milton	"	Drop from recommendation in 296	-
Pronto	"	Recommended, Pub. 296	-
Richmond	"	" "	-
Goliath	MLM	Licence denied, Deferred (3)	-
Odenwalder	OSECO	" " " "	-
LFS 23	O.R.S.	Not supported 1980, re-examine 1981	8
LFY 10	O.R.S.	Not supported 1980, re-examine 1981	8
LSS 9	O.R.S.	Not supported 1980, re-examine 1981	8
Salvo (009)	O.R.S.	Licenced, support for rec. Defer (1)	9
Mohawk	U.C.O.		4
Alpage	OSECO		4
Phlewiola	OSECO		4
Rasant	OSECO		4
LCM 8	O.R.S.		4
OG-HD-7	O.R.S.		4
OC-HD-10	O.R.S.		4
PS 79057	Pickseed		0
K 215	H.K.		0
Tiiti	Labonte		0
K 216	King Grain		0

Yield (kg/ha) of Recommended Varieties

<u>Variety</u>	<u>1978-79¹⁾</u>		<u>1980³⁾</u>		<u>Mean 1978, '79, '80⁴⁾</u>	
	<u>Cut 1</u>	<u>Total</u>	<u>Cut 1</u>	<u>Total</u>	<u>Cut 1</u>	<u>Total</u>
Timfor	6,400	9,020	6,690	10,450	6,510	9,560
Itasca	6,380	8,720	7,010	10,550	6,610	9,410
Basho	6,050	8,670	6,650	10,520	6,280	9,360
Toro	6,320	8,690	6,600	10,410	6,420	9,340
Climax	6,220	8,570	6,860	10,270	6,460	9,210
Champ	6,180	8,360	6,550	10,500	6,320	9,160
Pronto	6,100	8,190	6,680	10,290	6,320	8,980
Milton	6,080	8,560				
Timfor	6,580	9,580 ²⁾				
Climax	6,460	9,190 ²⁾				
Richmond	6,210	9,160 ²⁾				
Champ	6,280	8,810 ²⁾				

1) Mean of 10 station-years for Cut 1 and 9 for Total.

2) Mean of 8 station-years for Cut 1 and 7 for Total.

3) Mean of 6 station-years.

4) Mean of 16 station-years for Cut 1 and 15 for Total.

Summary - Yields (kg/ha) of Strains Eligible for Consideration

Entry	Seeded 1978 ¹⁾ 1979-'80			Seeded 1979 ¹⁾ 1980			Mean ²⁾		
	Cut 1	Cut 2	Total	Cut 1	Cut 2	Total	Cut 1	Cut 2	Total
Champ	6,520	2,800	9,320	6,400	4,010	10,410	6,460	3,400	9,860
Timfor	6,580	2,660	9,240	6,500	3,850	10,350	6,540	3,260	9,800
Climax	6,300	2,520	8,820	6,800	3,440	10,240	6,550	2,980	9,530
Salvo (Ott. 009)	6,460	3,100	9,570	6,340	3,790	10,130	6,400	3,450	9,850
LFS-23	6,490	2,490	8,980	6,780	3,550	10,330	6,640	3,020	9,660
LFY-10	6,600	2,470	9,070	6,370	3,370	9,740	6,490	2,920	9,410
LSS-9	6,260	2,480	8,740	6,530	3,380	9,910	6,400	2,930	9,330
Champ	7,000	1,990	8,990 ³⁾	6,400	4,010	10,410 ¹⁾	6,730	2,890	9,620 ⁴⁾
Salvo	7,240	2,340	9,580	6,340	3,790	10,130	6,840	2,980	9,820

1) Mean of 4 station-years: locations, Seeded 1978 = Ridgetown, Ottawa
Seeded 1979 = Elora, Kemptville, Ottawa, Kapuskasing

2) Mean of 8 station-years

3) Mean of 5 station-years: locations, Ridgetown, Elora, Ottawa

4) Mean of 9 station-years

Timothy Strains - Seeded 1978¹⁾

<u>Entry</u>	<u>1979</u>			<u>1980</u>			<u>1979-80</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>
Itasca	6,610	1,660	8,270	7,680	3,660	11,340	7,140	2,670	9,810
Salvo (Ott. 009)	6,220	2,110	8,330	6,690	4,110	10,800	6,460	3,100	9,560
Basho	6,380	2,020	8,400	6,730	3,850	10,580	6,560	2,930	9,490
Champ	6,190	1,760	7,950	6,850	3,830	10,680	6,520	2,800	9,320
Timfor	6,090	1,730	7,820	7,060	3,600	10,650	6,580	2,660	9,240
Toro	5,670	2,050	7,720	7,130	3,680	10,810	6,400	2,870	9,270
LFY-10	6,100	1,600	7,700	7,110	3,320	10,430	6,600	2,470	9,070
Milton	5,890	1,610	7,500	7,010	3,500	10,510	6,450	2,560	9,010
LFS-23	6,120	1,440	7,560	6,860	3,530	10,390	6,490	2,490	8,980
Climax	5,620	1,680	7,300	6,980	3,360	10,340	6,300	2,520	8,820
LSS-9	5,600	1,590	7,190	6,910	3,380	10,290	6,260	2,480	8,740
Pronto	5,640	1,570	7,210	6,770	3,310	10,080	6,200	2,440	8,640
L.S.D.	N.S.	-	720	N.S.	230	610	N.S.	-	670
Mean	6,010	1,770	7,780	6,980	3,590	10,570	6,500	2,680	9,180

1) Seeded at Ridgetown and Ottawa

Timothy Strains - Seeded 1979

<u>Entry</u>	<u>Yield (kg/ha) - 1980¹⁾</u>		
	<u>Cut 1</u>	<u>Cut 2</u>	<u>Total</u>
Basho	6,610	3,880	10,490
OC-HD-10	6,400	4,040	10,440
Champ	6,400	4,010	10,410
Pronto	6,630	3,760	10,390
Timfor	6,500	3,850	10,350
LFS-23	6,780	3,550	10,330
Mohawk	6,370	3,910	10,280
Climax	6,800	3,440	10,240
Toro	6,340	3,870	10,210
Itasca	6,680	3,470	10,150
Salvo (Ott. 009)	6,340	3,790	10,130
Rasant	6,670	3,440	10,110
Alpage	6,500	3,440	9,940
LSS-9	6,530	3,380	9,910
Phlewiola	6,390	3,420	9,810
LCM-8	6,300	3,470	9,770
LFY-10	6,370	3,370	9,740
OC-HD-7	6,110	3,540	9,650
L.S.D.	N.S.	260	550
Mean	6,480	3,640	10,120

1) Mean of 4 stations - Elora, Kemptville, Ottawa, and Kapuskasing.
 The test at Kapuskasing had only 3 replications. Thus, the
 yields in this table are slightly higher than would be obtained
 by averaging the means from the 4 locations.



Ridgetown Expt. 1055 Prov. Timothy Test 78 SEEDED 1980

<u>CODE</u>	<u>ENTRY</u>	<u>Yield - kg/ha</u>		
		<u>CUT 1</u>	<u>CUT 2</u>	<u>TOTAL</u>
6026	Itasca	7,880	4,820	12,700
6030	Toro	7,530	4,850	12,380
6062	Ottawa 009	6,820	5,490	12,310
6003	Milton	7,590	4,630	12,220
6065	LSS-9	7,640	4,420	12,060
6063	LFS-23	7,290	4,710	12,000
6009	Basho	6,840	5,140	11,980
6005	Champ	7,170	4,780	11,950
6064	LFY-10	7,550	4,350	11,900
6040	Timfor	7,070	4,570	11,640
6002	Climax	6,870	4,560	11,430
6037	Pronto	6,910	4,510	11,420
L.S.D. 5% (kg/ha)		N.S.	580	N.S.
Mean (kg/ha)		7,260	4,730	11,990
CV		10.76	8.56	5.94
Date Cut		June 13	Aug. 6	

ALC

Expt. 2800

Prov. Timothy Test

79 SEEDED

1980

CODE	STRAIN	Yield (kg/ha)		TOTAL
		CUT 1	CUT 2	
6063	LFS-23	10,230	4,440	14,670
6005	Champ	8,960	5,230	14,190
6069	Rasant	9,970	4,190	14,160
6062	Salvo (Ott. 009)	8,840	5,260	14,100
6002	Climax	9,900	4,090	13,990
6066	Mohawk	9,020	4,850	13,870
6030	Toro	8,920	4,830	13,750
6009	Basho	8,700	4,940	13,640
6037	Pronto	8,930	4,660	13,600
6067	Alpage	9,150	4,440	13,580
6070	OC-HD-10	8,440	5,020	13,450
6040	Timfor	8,700	4,710	13,410
6026	Itasca	9,140	4,250	13,390
6065	LSS-9	9,170	4,020	13,200
6068	Phlewiola	8,920	4,100	13,020
6072	LCM-8	8,790	4,230	13,020
6064	LFY-10	9,270	3,720	12,990
6073	OG-HD-7	8,410	4,300	12,710
L.S.D. 5% (kg/ha)		N.S.	470	N.S.
Mean (kg/ha)		9,080	4,520	13,600
CV		8.99	7.34	6.31
Date Harvested		June 27	Aug. 19	

Elo

ARC

Exp. 2788 Provincial Timothy Trial

Seeded 1978. Elora

<u>Entry</u>	<u>Spring Vigour (May 8)</u>	<u>June 18</u>	<u>% Headed - 1980</u>		<u>July 2</u>
			<u>June 24</u>	<u>June 26</u>	
Taro	6.0	50	100	100	100*
Basko	5.0	50	100	100	100*
Champ	4.5	30	100	100	100*
Itasca	5.0	1	75	90	100
Timfor	4.0	0	75	90	100
Climax	5.0	0	60	80	100
Milton	4.5	10	80	100	100
Pronto	3.5	0	30	75	100
Richmond	6.0	70	100	100	100*
N7-126	4.0	0	40	60	90
Odenwalder	7.0	40	90	100	100*
Goliath	4.0	0	50	60	100
Maris Polka	6.0	0	80	90	100
MLM17017	4.0	2	50	90	100
Ottawa 009	8.0	90	100	100	100*

*Anthesis

Exp. 2800 Provincial Timothy Trial

Seeded 1979. Elora

<u>Entry</u>	<u>%Headed-1980</u>			<u>(Aug 11(Regrowth)</u>
	<u>June 18</u>	<u>June 24</u>	<u>June 26</u>	
Taro	60	100	100	100*
Basho	95	100	100	25
Champ	10	100	100	50
Itasca	5	80	90	30
Timfor	5	70	90	20
Climax	0	20	40	5
Milton	-	-	-	-
Pronto	0	40	50	10
Richmond	-	-	-	-
LFS-23	0	5	15	5
LFY-10	0	5	15	5
LSS-9	0	10	25	10
009	100	100*	100*	100*
Mohawk	0	50	90	25
Alpage	0	50	60	0
Phlewiola	10	90	100	5
Rasant	75	100*	100*	5
OG-HD-10	25	95	100	40
LCM-8	0	40	50	5
OG-HD-7	0	80	95	5

*Anthesis

Kemptville Expt. 3036 Prov. Timothy Test 79 SEEDED 1980

<u>CODE</u>	<u>ENTRY</u>	<u>Yield - kg/ha</u>		<u>TOTAL</u>
		<u>CUT 1</u>	<u>CUT 2</u>	
6026	Itasca	8,460	4,340	12,800
6030	Toro	7,210	5,310	12,520
6040	Timfor	7,720	4,790	12,510
6009	Basho	7,470	5,030	12,500
6005	Champ	7,160	5,220	12,380
6037	Pronto	7,560	4,810	12,370
6070	OC-HD-10	7,420	4,900	12,320
6062	Ottawa 009	7,390	4,490	11,880
6066	Mohawk	7,020	4,730	11,750
6002	Climax	7,390	4,130	11,520
6073	OC-HD-7	6,940	4,580	11,520
6063	LFS-23	7,210	4,300	11,510
6065	LSS-9	7,070	4,010	11,080
6072	LCM-8	7,030	3,990	11,020
6069	Rasant	6,760	4,240	11,000
6064	LFY-10	7,000	3,960	10,960
6068	Phlewiola	6,540	4,250	10,790
6067	Alpage	6,790	3,900	10,690
	L.S.D. 5% (kg/ha)	N.S.	680	12,340
	Mean (kg/ha)	7,230	4,500	11,730
	CV	10.38	10.60	7.43

June 16

Aug. 11



Ottawa Expt. 4784 Prov. Timothy Test 78 SEEDED 1980

Yield - kg/ha

<u>CODE</u>	<u>ENTRY</u>	<u>CUT 1</u>	<u>CUT 2</u>	<u>TOTAL</u>
6026	Itasca	7,480	2,500	9,980
6040	Timfor	7,040	2,620	9,660
6005	Champ	6,540	2,880	9,420
6062	Ottawa 009	6,560	2,730	9,290
6002	Climax	7,090	2,160	9,250
6030	Toro	6,740	2,500	9,240
6009	Basho	6,620	2,560	9,180
6072	LCM-8	6,680	2,310	8,990
6064	LFY-10	6,660	2,300	8,960
6003	Milton	6,430	2,370	8,800
6063	LFS-23	6,430	2,350	8,780
6037	Pronto	6,640	2,100	8,740
6065	LSS-9	6,180	2,350	8,530
L.S.D. 5% (kg/ha)		470	320	680
Mean (kg/ha)		6,700	2,440	9,140
CV		4.91	9.18	5.18

Date Cut

June 24

Aug. 8

APC ✓

Expt. 4792

Ottawa

Prov. Timothy Test

79 SEEDED

1980

CODE	ENTRY	Yield - kg/ha		TOTAL
		CUT 1	CUT 2	
6069	Rasant	6,030	3,010	9,040
6065	LSS-9	5,880	3,080	8,960
6070	OC-HD-10	5,330	3,290	8,620
6002	Climax	5,620	2,990	8,610
6068	Phlewiola	5,680	2,900	8,580
6009	Basho	5,600	2,970	8,570
6064	LFY-10	5,090	3,400	8,490
6063	LFS-23	5,420	3,070	8,490
6067	Alpage	5,550	2,890	8,440
6072	LCM-8	5,270	3,160	8,430
6037	Pronto	5,660	2,770	8,430
6040	Timfor	5,210	3,200	8,410
6066	Mohawk	5,130	3,230	8,360
6062	Ottawa 009	5,320	2,900	8,220
6073	OG-HD-7	4,810	2,980	7,790
6026	Itasca	4,810	2,920	7,730
6030	Toro	5,000	2,670	7,670
6005	Champ	4,840	2,780	7,620
	L.S.D. (kg/ha)	630	400	810
	Mean	5,350	3,010	8,360
	CV	8.3	9.3	6.8
	Date Harvested	June 25	Aug. 7	

APC

Expt. 6043

Prov. Timothy Test

79 SEEDED

Kapuskasing

CODE	ENTRY	Yield (kg/ha) - 1980		
		CUT 1	CUT 2	TOTAL
6005	Champ	4,070	2,380	6,450
6070	OC-HD-10	3,760	2,550	6,320
6009	Basho	4,020	2,160	6,180
6037	Pronto	3,640	2,450	6,090
6067	Alpage	3,850	2,230	6,080
6066	Mohawk	3,640	2,420	6,070
6040	Timfor	3,670	2,310	5,980
6068	Phlewiola	3,730	2,100	5,840
6030	Toro	3,510	2,270	5,780
6002	Climax	3,480	2,250	5,730
6072	LCM-8	3,390	2,160	5,550
6073	OC-HD-7	3,650	1,900	5,550
6026	Itasca	3,530	1,990	5,520
6064	LFY-10	3,390	2,060	5,450
6063	LFS-23	3,440	1,990	5,440
6065	LSS-9	3,140	2,070	5,200
6062	Ottawa 009 (Salvo)	2,950	2,110	5,060
6069	Rasant	2,980	1,990	4,970
L.S.D. 5% (kg/ha)		N.S.	N.S.	N.S.
Mean		3,550	2,190	5,740
CV		11.2	11.2	10.1

APC

ONTARIO FORAGE SEED SURVEY - 1980 REPORT

<u>Alfalfa</u>	<u>Lb. Shipped - July 1/79 to June 30/80</u>	<u>Shippings as a % of 1976</u>			
		<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>
Angus	23,800	N.A.	N.A.	N.A.	49**
Iroquois	450,700	170	93	161	247
Saranac	535,700	67	78	90	97
Vernal	600,300	73	57	59	44
Other public varieties	<u>267,600</u>	180	197	908	3185
Total Public Varieties	1,878,100	82	69	80	88
All Proprietary Varieties	<u>1,169,500</u>	108	122	177	172
Total Pedigreed (Public + Proprietary)	3,047,600	88	82	104	108
All Commercial Seed	<u>523,100</u>	96	103	95	80
Total, All Alfalfa Seed	3,570,700	90	86	102	104
<u>Red Clover</u>					
Lakeland	8,300	88	123	44	40
Ottawa	6,800	56	44	39	25
All other public + proprietary varieties	<u>41,300</u>	N.A.	N.A.	107*	92*
Total, Pedigreed (Public + Proprietary)	56,400	70	173	143	119
Commercial double cut	728,500	119	121	105	98
Commercial single cut	<u>466,700</u>	93	119	138	174
Total, Commercial Seed	<u>1,195,200</u>	112	120	114	118
Total, All Red Clover Seed	1,251,600	110	123	115	118

*Shippings as % of 1978

**Shippings as % of 1979

	Lb. Shipped - July 1/79 to June 30/80	Shippings as a % of 1976			
		1977	1978	1979	1980
<u>Bird's-foot Trefoil</u>					
Empire	43,800	50	31	41	23
Leo	93,800	60	67	67	66
All other public & proprietary varieties	<u>7,500</u>	56	82	33	42
Total Pedigreed (Public + Proprietary)	145,100	54	48	51	41
All Commercial Seed	<u>161,300</u>	94	109	132	77
Total, All Trefoil Seed	306,400	69	71	81	55

<u>White Clover</u>					
Ladino	98,400	91	N.A.	93	82
All other public & proprietary varieties	<u>300</u>	N.A.	N.A.	N.A.	N.A.
Total Pedigreed (Public + Proprietary)	98,700	N.A.	N.A.	118*	95*
All Commercial Seed	<u>67,700</u>	N.A.	N.A.	94*	73*
Total, All White Clover Seed	166,400	83	89	95	75

<u>Alsike Clover</u>					
Total, All Alsike Clover	304,800	90	96	76	68

<u>Sweet Clover</u>					
Total, All Sweet Clover	175,800	106	79	94	74

*Shippings as % of 1978

Timothy	Lb. Shipped - July 1/79 to June 30/80	Shippings as a % of 1976			
		1977	1978	1979	1980
Climax	621,700	79	69	66	60
Champ	217,000	98	73	52	51
Basho	135,400	N.A.	N.A.	N.A.	244**
Other public varieties	<u>2,000</u>	N.A.	N.A.	N.A.	N.A.
Total Public Varieties	976,100	83	N.A.	64	65
All Proprietary Varieties	<u>145,400</u>	50	N.A.	152	133
Total Pedigreed (Public + Proprietary)	1,121,500	80	70	70	70
All Commercial Seed	<u>658,500</u>	114	115	88	
Total, All Timothy Seed	1,780,000	92	86	76	71
<u>Bromegrass</u>					
Saratoga	63,300	60	64	77	62
All other public & proprietary varieties	<u>140,800</u>	64	36	40	51
Total Pedigreed (Public + Proprietary)	204,100	63	44	50	54
All Commercial Seed	<u>630,300</u>	73	91	105	102
Total, All Brome Seed	834,400	69	73	84	84
<u>Orchard Grass</u>					
All Public Varieties	17,200	44	25	30	50
All Proprietary Varieties	<u>42,900</u>	81	107	77	65
Total Pedigreed (Public + Proprietary)	60,100	68	79	61	60
All Commerical Seed	<u>55,900</u>	76	93	71	56
Total, All Orchard Seed	116,000	72	86	66	58

**Shippings as % of 1979

<u>Reed Canary Grass</u>	<u>Lb. Shipped - July 1/79 to June 30/80</u>	<u>Shippings as a % of 1976</u>			
		<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>
Total Pedigreed (Public + Proprietary)	300	0	N.A.	64	14
All Commercial Seed	<u>19,000</u>	48	N.A.	46	72
Total, All Reed Canary	19,300	44	19	48	68

<u>Meadow Fescue</u>					
Total, All Meadow Fescue	38,500	74	48	28	29

<u>Tall Fescue</u>					
Total, All Tall Fescue	81,200	58	72	90	62

Total Seed Sales (all species)	8,644,992	88.5	87.2	90.5	86.8
Total Seed Sales - Big 7	8,025,500	88.8	87.9	92.2	89.3

(alfalfa, red clover, trefoil, white clover,
timothy, orchard and brome grass)

N.A. Comparable figures not available each year, because of grouping of figures required by Statistics Canada regulations to preserve confidentiality.

This survey is a co-operative project between Statistics Canada,
Ontario members of the Canadian Seed Trade Association, and the Ontario Forage
Crops Committee.

ONTARIO FORAGE CROPS COMMITTEE

PRODUCTION TRIALS

Alfalfa/Grass Seeding Rate Test

Coated Seed Trials in Legume and Grass Species

OFCC PRODUCTION TRIALS

Alfalfa/Grass Seeding Rate test - seeded in 1980 - Kemptville

Only one cut (kg/ha)

Saranac 10 + Itasca 2	2273
Saranac 10 + Itasca 4	2006
Saranac 10 + Itasca 6	2397
Saranac 10 + Saratoga 2	2350
Saranac 10 + Saratoga 5	2427
Saranac 10 + Saratoga 8	2156
Saranac 10	2059
Iroquois 10 + Itasca 2	2696
Iroquois 10 + Itasca 4	3350
Iroquois 10 + Itasca 6	3254
Iroquois 10 + Saratoga 2	2072
Iroquois 10 + Saratoga 5	2703
Iroquois 10 + Saratoga 8	2922
Iroquois 10	2644
$\bar{x}$	2522
LSD 5%	1060
C.V.	29.42

Expt. 7116

Brome - Nitrogen Fall Application - seeded in 1978 - Thunder Bay

	Cut 1	Cut 2	Total (kg/ha)
Check	2761	1618	4379
100 lb N Aug. 01	4690	2364	7054
100 lb N Aug. 15	4570	2401	6971
100 lb N Sept. 01	4953	2144	7097
100 lb N Sept. 15	4309	2313	6622
100 lb N Sept. 30	4436	2507	6943
$\bar{x}$	4287	2225	6511
L.S.D. 5%	358	440	513
C.V.	5.55	12.15	5.23

Expt. 7117

Timothy - Nitrogen Fall Application - seeded in 1978 - Thunder Bay

	Cut 1	Cut 2	Total (kg/ha)
Check	556	1626	2180
100 lb N Aug. 01	2342	1310	3652
100 lb N Aug. 15	2518	1425	3943
100 lb N Sept. 01	2669	1596	4265
100 lb N Sept. 15	2585	1478	4063
100 lb N Sept. 30	3220	1984	5204
$\bar{x}$	2315	1570	3885
L.S.D. 5%	278	488	512
C.V.	7.96	20.66	8.75

Expt. 1072

Alfalfa - coated seed trial - seeded in 1980 - RCAT

	Seeding rate	Cut 1	Cut 2	Total (kg/ha)
#1 Saranac Prill-on	11.2 kg/ha	2726	4545	7271
#2 Saranac Prill-on	8.4 kg/ha	2481	5088	7569
#3 Saranac Prill-on	17.9 kg/ha	2873	4553	7426
#4 Saranac Prill-on	13.4 kg/ha	2707	4248	6955
#5 Saranac non-coated	11.2 kg/ha	2786	4086	6872
#6 Saranac non-coated	8.4 kg/ha	2740	4639	7379
LSD 5%		365	1278	1379
$\bar{x}$		2719	4527	7245
C.V.		8.92	18.74	12.63

Exp. 6726B

Alfalfa - coated seed trial - seeded in 1980 - Kapuskasing

	Seeding rate	Only 1 cut kg/ha
#1 Saranac Prill-on	11.2 kg/ha	2293
#2 Saranac Prill-on	8.4 kg/ha	2280
#3 Saranac Prill-on	17.9 kg/ha	2706
#4 Saranac Prill-on	13.4 kg/ha	2426
#5 Saranac non-coated	11.2 kg/ha	2409
#6 Saranac non-coated	8.4 kg/ha	2374

Exp. 4222

Alfalfa - coated seed trial - seeded in 1980 Guelph

	Seeding rate	Cut 1	Cut 2	Total (kg/ha)
#1 Saranac Prill-on	11.2	1530	3432	4962
#2 Saranac Prill-on	8.4	1353	3119	4472
#3 Saranac Prill-on	17.9	1790	3219	5009
#4 Saranac Prill-on	13.4	1670	3216	4886
#5 Saranac non-coated	11.2	1666	3286	4952
#6 Saranac non-coated	8.4	1757	3402	5159
$\bar{x}$		1628	3279	4907
LSD 5%		243	327	416
C.V.		12.0	8.1	6.8

Expt. 7135

Alfalfa - coated seed trial - seeded in 1979 - Thunder Bay

			Seeding rate (kg/ha)	Cut 1	Cut 2	Total (kg/ha)
#1	Apollo	Grozone	11.2	2657	2219	4876
#2	Apollo	Grozone	18.6	2865	2073	4938
#3	Apollo	Prill-on	11.2	2447	2192	4639
#4	Apollo	Prill-on	18.6	2832	2341	5173
#5	Apollo	non-coated	11.2	2902	2218	5120
#6	Iroquois	Rhizocoat I	11.2	3029	2329	5358
#7	Iroquois	rh II	11.2	2675	2163	4838
#8	Iroquois	Golden-coat	11.2	2438	2153	4591
#9	Iroquois	rh I	18.6	3335	2462	5797
#10	Iroquois	rh II	18.6	3100	2287	5387
#11	Iroquois	g-coat	18.6	2638	2117	4755
#12	Iroquois	non-coated	11.2	2944	2353	5297
#13	Vernal	rh I	11.2	2778	2295	5073
#14	Vernal	rh II	11.2	2562	2116	4678
#15	Vernal	rh I	18.6	2744	2072	4816
#16	Vernal	rh II	18.6	2516	2270	4786
#17	Vernal	non-coated	11.2	2825	2337	5162
$\bar{x}$				2782	2235	5017
LSD 5%				505	319	714
C.V.				12.79	10.05	10.01

Expt. 1065

Alfalfa - coated seed trial - seeded in 1979 - RCAT

			Seeding rate (lb/ac)	Cut 1	Cut 2	Cut 3	Total (kg/ha)
#1	Apollo	Grozone	14	7970	3622	3101	14693
#2	Apollo	Grozone	23.3	7316	3671	3510	14497
#3	Apollo	Prill-on	14	7574	4085	3587	15246
#4	Apollo	Prill-on	23.3	8350	3961	2985	15296
#5	Apollo	non-coated	14	7834	4086	3520	15440
#6	Iroquois	rh I	14	8738	3818	3321	15877
#7	Iroquois	rh I	23.3	7565	3966	3522	15053
#8	Iroquois	rh II	14	7968	3887	3526	15381
#9	Iroquois	rh II	23.3	7917	4115	3363	15395
#10	Iroquois	non-coated	14	7761	4001	3342	15105
#11	Iroquois	g-coat	14	7756	3846	3417	15019
#12	Iroquois	g-coat	23.3	8271	3999	3566	15836
$\bar{x}$				7918	3922	3397	15237
LSD 5%				725	504	426	995
C.V.				6.35	8.92	8.70	4.53

Expt. 8706

Alfalfa - coated seed trial - seeded in 1979 - NLCAT

			Seeding rate (kg/ha)	Cut 1	Cut 2	Total (kg/ha)
#1	Apollo	Grozone	11.2	3444	2589	6033
#2	Apollo	Grozone	18.6	4254	3384	7638
#3	Apollo	Prill-on	11.2	4084	3427	7511
#4	Apollo	Prill-on	18.6	4922	3527	8449
#5	Apollo	non-coated	11.2	4432	3392	7824
#6	Iroquois	rh I	11.2	4392	2462	6854
#7	Iroquois	rh II	11.2	4383	3545	7928
#8	Iroquois	g-coat	11.2	3159	3461	6620
#9	Iroquois	rh I	18.6	5109	3589	8698
#10	Iroquois	rh II	18.6	4440	3733	8173
#11	Iroquois	g-coat	18.6	4352	3613	7965
#12	Iroquois	non-coated	11.2	4664	3351	8015
#13	Vernal	rh I	11.2	3850	3046	6896
#14	Vernal	rh II	11.2	3891	3262	7153
#15	Vernal	rh I	15.3	4183	4009	8192
#16	Vernal	rh II	16.8	4331	3877	8208
#17	Vernal	non-coated	11.2	3977	3412	7389
$\bar{x}$				4228	3393	3810
C.V.				15.5	19.9	22.2

Expt. 6724

Alfalfa - coated seed trial - seeded in 1979 - Kapuskasing

			Seeding rate (kg/ha)	Cut 1	Cut 2	Total Yield (kg/ha)
#1	Apollo	Grozone	11.2	3581	2563	6164
#2	Apollo	Grozone	18.6	3494	2639	6132
#3	Apollo	Prill-on	11.2	3509	2277	6786
#4	Apollo	Prill-on	18.6	3444	2610	6054
#5	Apollo	non-coated	11.2	3692	2758	6450
#6	Iroquois	rh I	11.2	3604	2538	6142
#7	Iroquois	rh II	11.2	3377	2732	6108
#8	Iroquois	g-coat	11.2	3406	2557	5963
#9	Iroquois	rh I	18.6	3532	2654	6185
#10	Iroquois	rh II	18.6	3497	2454	5951
#11	Iroquois	g-coat	18.6	3610	2506	6116
#12	Iroquois	non-coated	11.2	3582	2582	6164
#13	Vernal	rh I	11.2	3791	2709	6500
#14	Vernal	rh II	11.2	3818	2653	6471
#15	Vernal	rh I	15.3	3764	2738	6502
#16	Vernal	rh II	16.8	3706	2658	6364
#17	Vernal	non-coated	11.2	3668	2741	6409
$\bar{x}$				3593	2610	6202
C.V.				8.46	9.84	6.77
LSD 5%				506	428	700

Expt. 4221

Alfalfa - coated seed trial - seeded in 1979 - Guelph

			Seeding rate (kg/ha)	Cut 1	Cut 2	Cut 3	Total Yield (kg/ha)
#1	Apollo	Grozone	11.2	4977	2684	2051	9712
#2	Apollo	Grozone	18.6	5088	2922	2047	10057
#3	Apollo	Prill-on	11.2	4997	2628	2018	9643
#4	Apollo	Prill-on	18.6	4667	2876	2055	9330
#5	Apollo	non-coated	11.2	4992	3177	2091	10260
#6	Iroquois	rh I	11.2	5196	3104	2359	10659
#7	Iroquois	rh I	18.6	5195	3289	2525	11009
#8	Iroquois	rh II	11.2	5089	3181	2324	10594
#9	Iroquois	rh II	18.6	5569	3273	2480	11322
#10	Iroquois	g-coat	11.2	5425	3179	2570	11174
#11	Iroquois	g-coat	18.6	4786	3152	2343	10281
#12	Iroquois	non-coated	11.2	5043	3130	2570	10743
#13	Vernal	rh I	11.2	4915	2556	1861	9332
#14	Vernal	rh I	18.6	5061	2552	2072	9686
#15	Vernal	rh II	11.2	4922	2791	1970	9683
#16	Vernal	rh II	18.6	4971	2812	1955	9738
#17	Vernal	non-coated	11.2	4661	2671	1957	9289
$\bar{x}$				4854	2905	2204	3321
C.V.				14.3	8.3	8.5	38.5

Expt. 7119

Alfalfa - coated seed trial - seeded in 1978 - Thunder Bay

			Seeding rate (kg/ha)	Only one cut (kg/ha)
#11	Apollo	Grozone	11.2	3141
#12	Apollo	Grozone	18.6	3130
#13	Apollo	Prill-on	11.2	3309
#14	Apollo	Prill-on	18.6	2890
#15	Apollo	non-coated	11.2	3348
$\bar{x}$				3164
C.V.				13.41
LSD 5%				

Expt. 6724

Alfalfa - coated seed trial - seeded in 1978 - RCAT

			Seeding rate (lb/ac)	Cut 1	Cut 2	Cut 3	Total (kg/ha)
#1	Apollo	non-coated	10	5911	-	-	5911
#2	Apollo	Grozone	10	6061	-	-	6061
#3	Apollo	Grozone	16.6	5610	-	-	5610
#4	Apollo	Prill-on	10	6317	-	-	6317
#5	Apollo	Prill-on	17.5	6019	-	-	6019
	$\bar{x}$			5984	-	-	5984
	LSD 5%			886	-	-	886
	C.V.			9.6	-	-	9.6

Expt. 1073

Trefoil - coated seed trial - seeded in 1980 - RCAT

			Seeding rate (kg/ha)	Cut 1	Cut 2	Total (kg/ha)
#1	Leo	Prill-on	11.2	2114	3863	5977
#2	Leo	Prill-on	8.4	1683	3774	5457
#3	Leo	Prill-on	17.9	2420	3744	6164
#4	Leo	Prill-on	13.4	1979	3831	5810
#5	Leo	non-coated	11.2	2526	3749	6275
#6	Leo	non-coated	8.4	2255	3580	3835
— x				2163	3757	5919
LSD 5%				471	269	572
C.V.				14.47	4.76	6.41

Expt. 6726A

Trefoil - coated seed trial - seeded in 1980 - Kapuskasing

		Seeding rate (kg/ha)	One one cut (kg/ha)	
#1	Leo	Prill-on	11.2	1573
#2	Leo	Prill-on	8.4	1217
#3	Leo	Prill-on	17.9	1729
#4	Leo	Prill-on	13.4	1628
#5	Leo	non-coated	11.2	1093
#6	Leo	non-coated	8.4	2405
	$\bar{x}$			1607
	C.V.			

Expt. 4223

Trefoil - coated seed trial - seeded in 1980 - Guelph

			Seeding rate (kg/ha)	Cut 1	Cut 2	Total (kg/ha)
#1	Leo	Prill-on	11.2	1231	2047	3278
#2	Leo	Prill-on	8.4	1207	2021	2228
#3	Leo	Prill-on	17.9	1725	2262	3987
#4	Leo	Prill-on	13.4	1496	2208	3704
#5	Leo	non-coated	11.2	1648	2030	3678
#6	Leo	non-coated	8.4	1497	2047	3544
	$\bar{x}$			1468	2103	3570
	LSD 5%			326	156	341
	C.V.			17.9	6.0	7.7

Expt.

Trefoil - coated seed trial - seeded in 1979 - RCAT

			Seeding rate (lb/ac)	Cut 1	Cut 2	Cut 3	Total (kg/ha)
#1	Leo	Prill-on	14	5378	3185	2957	11520
#2	Leo	Prill-on	24.5	5059	3277	2930	11266
#3	Leo	non-coated	14	5138	3678	2983	11799
	$\bar{x}$			5191	3380	2957	11528
	LSD 5%			490	941	376	1065
	C.V.			5.45	16.08	7.34	5.33

Expt. 7119

Trefoil - coated seed trial - seeded in 1978 - Thunder Bay

			Seeding rate (kg/ha)	Cut 1 only
#1	Leo	Prill-on	11.2	3648
#2	Leo	Prill-on	19.6	3825
#3	Leo	non-coated	11.2	3855
	$\bar{x}$			3776
	C.V.			5.79
	LSD			

Expt. 1067

Timothy - coated seed trial - seeded in 1979 - RCAT

			Seeding rate (kg/ha)	Cut 1	Cut 2	Total (kg/ha)
#1	Toro	Prill-on	11.2	7391	4642	12033
#2	Toro	Prill-on	22.4	7526	4197	11723
#3	Toro	non-coated	11.2	7969	4249	12218
	$\bar{x}$			7629	4362	11991
	C.V.			10.55	6.59	5.51
	LSD 5%			1394	498	1144

Expt. 1059

Trefoil - coated seed trial - seeded in 1978 - RCAT

			Seeding rate (kg/ha)	One cut only (kg/ha)
#1	Toro	non-coated	8	7250
#2	Toro	Prill-on	8	7440
#3	Toro	Prill-on	16	7197
	$\bar{x}$			7296
	LSD 5%			986
	C.V.			7.81

Expt. 7119

Timothy - coated seed trial - seeded in 1978 - Thunder Bay

			Seeding rate (kg/ha)	One cut only (kg/ha)
#1	Toro	Prill-on	8.9	1813
#2	Toro	Prill-on	17.9	2058
#3	Toro	non-coated	8.9	1799
	$\bar{x}$			1890
	C.V.			15.48
	LSD 5%			