

BOWLEY
ONTARIO STEVE BOWLEY
FORAGE CROP INVESTIGATIONS



1978 REPORT ON FIELD TRIALS
OF VARIETIES AND MIXTURES

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

Ontario Alfalfa Trials

- 1976 Seedings:
- a. Early Cultivars: Angus, Anchor, Thor, Saranac, Apollo, Victor, Olympic, Vista, 530, Atlas, NaPB51
 - b. Medium Cultivars: Iroquois, Vernal, Weevlcheck, Titan, WL202, WL210, WL215, 520, Pickstar, Algonquin, Valor, 521, K3-15, MLM 02015, MLM 02016, MLM 02017, MLM 02018, MLM 02019, MLM 02020, G747, CW9
 - c. Test Locations: Ridgetown, Elora, Kemptville, Ottawa, Thunder Bay (no data 1978).
- 1977 Seedings:
- a. Early Cultivars: Anchor, Angus, Banner, Saranac, Thor, Pacer, Ceres, Atlas, NaPB51, NaPB61, NaPB63, WL318, 531, PS10, CW4, Syn C.T.
 - b. Medium Cultivars: Iroquois, Algonquin, Weevlcheck, 520, Titan, Valor, Vernal, WL202, WL215, MLM 02018, MLM 02019, MLM 02020, G747, CW9, 524, 540, WL220, CW2, Dekalb 120
 - c. Test Locations: Ridgetown, Guelph, Kemptville, Ottawa New Liskeard.
- 1978 Seedings:
- a. Early Cultivars: Anchor, Angus, Banner, Saranac, Thor, Pacer, Ceres, Vista, Apollo, Citation, Iroquois, Syn C.T., 531, PS10, CW4, Trident (NaPB61) Answer (NaPB63), S.Q. Syn 2, 130, P445 A
 - b. Medium Cultivars: Iroquois, Algonquin, Weevlcheck, 520, Titan, Valor, Vernal, WL215, Pickstar, Angus, 524, 540, WL220, CW2, Dekalb 120, T7801, CW68, CW3, 74D111
 - c. Test Locations: Ridgetown, Guelph, Kemptville, Ottawa, Kaspuskasing.

Alfalfa Trials, 1976 Seedings, Early Cultivars

Ridgetown (1041)

	Cut 1	Cut 2	Cut 3	Total KG/HA	1977 Yield	2-Year Mean
Banner	6414	3255	4114	13783	15265	14524
Anchor	5711	3454	3841	13006	15512	14259
Vanguard	5185	2890	3835	11910	14962	13436
Angus	5796	3445	3593	12834	15172	14003
Thor	6188	3224	3870	13282	15499	14391
Apollo	5668	3279	3920	12867	14943	13905
Olympic	5530	3122	3898	12550	14703	13627
Vista	5522	3286	3814	12622	15270	13946
Atlas	5736	3386	3979	13101	15800	14451
NAPB 51	5605	3356	4165	13126	15312	14219
Saranac	5490	3362	3959	12811	15293	14052
L.S.D. 5%	857	395	412	1274	1029	
C.V.	10.39%	8.35%	7.30%	6.84%	4.68%	
F.	N.S.	N.S.	N.S.	N.S.	N.S.	

Guelph (2764)

	Cut 1	Cut 2	Cut 3	Total KG/HA	1977 Yield	2-Year Mean
Apollo	5852	3319	2086	11257	14513	12885
Atlas	5568	3431	2049	11048	14703	12876
NAPB 51	5116	3327	2096	10539	14125	12332
Olympic	5266	3330	2135	10731	15308	13020
Angus	5700	3026	1692	10418	14156	12287
Vanguard	5221	2967	2049	10237	14598	12418
Vista	5351	3796	2485	11632	15372	13502
Thor	5330	3221	2055	10606	14621	12614
Banner	6168	3635	2399	12202	15240	13721
Saranac	6038	3768	2392	12198	14433	13316
Anchor	5161	3649	2010	10820	14319	12570
L.S.D. 5%	746	503	306	925	1011	
C.V.	9.35%	10.22%	9.96%	5.79%	4.77%	
F.	N.S.	*	**	**	N.S.	

Kemptville (3001)

	Cut 1	Cut 2	Cut 3	Total KG/HA	1977 Yield	2-Year Mean
NAPB 51	4911	1400	2168	8479	4632	6556
Anchor	4550	1347	2071	7968	5050	6509
Vista	4444	1351	2046	7841	4710	6276
Thor	4564	1293	2204	8061	5614	6838
Apollo	4037	1450	1987	7474	4801	6138
Banner	4317	1616	2335	8268	5349	6809
Olympic	4582	1497	2108	8187	4806	6497
Atlas	4476	1439	2076	7991	5066	6529
Vanguard	5092	1255	2012	8359	4866	6613
Saranac	4379	1448	2101	7928	5309	6619
Angus	4568	1362	2273	8203	4712	6458
L.S.D. 5%	815	311	261	1001	889	
C.V.	12.44%	15.32%	8.52%	8.60%	12.33%	
F.	N.S.	N.S.	N.S.	N.S.	N.S.	

Ottawa (4011)

	Cut 1	Cut 2	Cut 3	Total KG/HA	1977 Yield	2-Year Mean
Angus	4688	2455	1829	8972	9840	9406
Anchor	4805	2728	1784	9317	9420	9369
Thor	4667	2754	1905	9326	10447	9887
Saranac	4837	2676	1938	9451	10061	9756
Apollo	4762	2729	1828	9319	9881	9600
Vanguard	4499	2158	1868	8525	8462	8494
Olympic	4647	2482	2005	9134	9426	9280
Banner	4838	2900	1723	9461	9732	9597
Atlas	4643	2571	1728	8942	9521	9232
NAPB 51	4230	2147	1620	7997	8637	8317
Vista	4415	2452	1825	8692	9976	9334
L.S.D. 5%	533	270	332	832	1086	
C.V.	7.95%	7.33%	12.60%	6.39%	7.85%	
F.	N.S.	**	N.S.	*	*	

✓

Alfalfa Trials, 1976 Seedings, Medium Cultivars

Ridgetown (1040)

	Cut 1	Cut 2	Cut 3	Total KG/HA	1977 Yield	2-Year Mean
Weevlcheck	6321	3331	3844	13496	15440	14468
WL 210	5728	3179	3947	12854	15003	13929
Vernal	5892	3191	3965	13048	15036	14042
MLM 02020	6203	3315	3850	13368	15056	14212
Pioneer-521	5977	3334	4063	13374	14880	14127
WL-215	6245	3253	4145	13643	15016	14330
K3-15	5962	3510	3936	13408	14840	14124
G 747	5968	3449	4224	13641	15202	14422
MLM 02015	5966	3517	4316	13799	15467	14633
MLM 02019	6287	3335	4525	14147	16003	15075
Pioneer-520	6211	3464	4165	13840	15560	14700
WL 202	5907	3411	3874	13192	15420	14306
MLM 02018	5926	3794	4113	13833	15363	14598
MLM 02016	5724	3594	3945	13263	15303	14283
CW 9	6192	3277	4009	13478	15092	14285
Titan	6018	3297	4274	13589	15411	14500
Algonquin	5659	2975	3882	12516	14714	13615
Pickstar	6035	3139	3644	12819	14700	13760
Iorquois	6277	3419	3932	13628	15298	14463
Valor	5792	3110	3885	12787	14785	13786
MLM 02017	5604	3469	4079	13152	15986	14569
L.S.D. 5%	515	389	415	836	890	
C.V.	6.07%	8.21%	7.28%	4.42%	4.14%	
F.	N.S.	N.S.	N.S.	N.S.	N.S.	

Guelph (2765)

	Cut 1	Cut 2	Cut 3	Total KG/HA	1977 Yield	2-Year Mean
MLM 02016	5473	3609	2068	11150	15690	13420
MLM 02017	5817	3377	1908	11102	15902	13502
Pickstar	5475	3256	2194	10925	14648	12787
MLM 02020	5713	3379	1801	10893	14938	12916
Pioneer-521	5076	3565	2051	10692	14736	12714
MLM 02018	5356	3387	1943	10686	14516	12601
G 747	5433	3288	1889	10610	14921	12766
Iroquois	5233	3393	1889	10515	14525	12520
MLM 02015	5321	3076	2110	10507	15877	13192
K3-15	5257	3366	1861	10484	14634	12559
MLM 02019	5270	3260	1926	10456	15408	12932
Pioneer-520	5234	3339	1792	10365	14909	12637
WL-202	5344	3124	1728	10196	14867	12532
Valor	5149	3069	1953	10171	14954	12563
Algonquin	5034	3313	1703	10050	14707	12379
WL-210	5065	2981	1955	10001	14641	12321
Titan	5256	2976	1735	9967	14718	12343
Vernal	5317	2788	1725	9830	14296	12063
WL-215	4998	3043	1703	9744	14600	12172
CW 9	5175	2655	1791	9621	15042	12332
Weevlcheck	5304	2801	1190	9295	14260	11778
L.S.D. 5%	451	526	634	1147	954	
C.V.	6.01%	11.65%	24.20%	7.84%	4.53%	
F.	N.S.	N.S.	N.S.	N.S.	*	

Kemptville (3002)

	Cut 1	Cut 2	Cut 3	Total KG/HA	1977 Yield	2-Year Mean
Iroquois	4375	1683	1933	7991	4575	6283
Vernal	4525	1625	2054	8204	4645	6425
Weevilcheck	5364	1798	2159	9321	5451	7386
Pioneer-520	4676	1635	1863	8174	5279	6727
WL-215	4070	1484	2111	7665	5107	6386
Algonquin	3968	1480	2216	7664	4582	6123
Titan	3846	1486	2197	7529	4836	6183
WL-202	4401	1491	1805	7697	4360	6029
WL-210	3688	1692	2051	7432	3989	5711
Pickstar	4405	1638	1891	7934	4706	6320
Valor	4440	1523	1921	7884	4784	6334
Pioneer-521	4716	1657	1734	8107	5017	6562
K3-15	4201	1688	1931	7820	4707	6264
MLM 02015	4808	1657	2041	8506	5572	7039
MLM 02016	4501	1718	2054	8273	5267	6770
MLM 02017	4517	1808	1825	8150	5331	6741
MLM 02018	4735	1596	2030	8361	5137	6749
MLM 02019	4237	1450	1888	7575	5032	6304
MLM 02020	4103	1613	1987	7703	4685	6194
G 747	4387	1408	2127	7922	4836	6379
CW 9	4131	1654	1827	7612	5243	6428
L.S.D. 5%	1012	424	280	1224	766	
C.V.	16.32%	18.64%	9.97%	10.85%	11.03%	
F.	N.S.	N.S.	N.S.	N.S.	*	

Ottawa (4012)

	Cut 1	Cut 2	Cut 3	Total KG/HA	1977 Yield	2-Year Mean
MLM 02017	3929	2928	2100	8957	9548	9253
MLM 02019	4250	2664	2014	8928	10998	9963
Pioneer-521	4160	2714	1929	8803	9747	9275
Vernal	4257	2438	1939	8634	9303	8969
Algonquin	4276	2401	1780	8457	10885	9671
Pioneer-520	3921	2477	2058	8456	8709	8583
Iroquois	3954	2487	1989	8430	9957	9194
G 747	3907	2579	1931	8417	10098	9258
MLM 02018	3954	2586	1853	8393	9859	9126
CW 9	4102	2437	1839	8378	8915	8647
Weevlcheck	3947	2566	1846	8359	9411	8885
Titan	4129	2444	1779	8352	9886	9119
WL-210	3999	2430	1771	8200	9702	8951
K3-15	3820	2589	1705	8114	9191	8653
WL-202	3951	2386	1767	8104	8893	8499
Valor	3749	2520	1831	8100	9550	8825
MLM 02016	3753	2452	1865	8070	9002	8536
MLM 02020	3827	2487	1746	8060	9407	8734
WL-215	3685	2506	1847	8038	9187	8613
MLM 02015	3762	2321	1630	7713	8875	8294
Pickstar	3476	2387	1849	7712	9140	8426
L.S.D. 5%	558	361	275	846	1313	
C.V.	10.01%	10.17%	10.46%	7.19%	9.73%	
F.	N.S.	N.S.	N.S.	N.S.	N.S.	

✓

Alfalfa Trials, 1977 Seedlings, Early Cultivars

Ridgetown (1046)

	Cut 1	Cut 2	Cut 3	Total (Kg/Ha)
Atlas	6895	3935	2710	13540
Banner	7045	4646	3113	14804
Trident	6775	4707	2868	14350
Thor	6917	4325	2558	13800
Angus	7335	3720	1998	13053
Syn. C.T.	7360	3807	2118	13285
W1-318	6677	4343	2439	13459
Answer	6968	4596	2418	13982
Anchor	7354	3918	2528	13800
Saranac	6911	4564	2581	14056
531	6805	4466	2607	13878
Ceres	6954	4459	2811	14224
P.S. 10	7047	4283	2691	14021
Pacer	6992	4103	2222	13317
CW 4	6655	3119	1606	11380
NAPB 51	6690	3893	2323	12906
L.S.D. 5%	486	952	559	1414
C.V.	4.88%	15.95%	15.80%	7.27%
F.	N.S.	N.S.	**	*

Guelph (2774)

	Cut 1	Cut 2	Cut 3	Total (Kg/Ha)
Pacer	4941	3164	3249	11354
Saranac	4927	3261	3017	11205
Anchor	4803	3359	3002	11164
Banner	4805	3043	3135	10983
Angus	4963	2900	3118	10981
Syn. C.T.	5044	2830	3025	10899
Answer	5001	2755	3130	10886
P.S. 10	4373	3163	3097	10633
NAPB 51	4298	3308	3025	10631
Ceres	4336	3025	3249	10610
Trident	4406	3167	3035	10608
531	4157	3197	3156	10510
Thor	4456	2857	3168	10482
CW 4	4049	2804	3026	9879
Atlas	3870	2883	3105	9858
WL-318	3645	2867	3256	9768
L.S.D. 5%	843	581	353	1123
C.V.	13.10%	13.40%	7.95%	7.38%
F.	*	N.S.	N.S.	N.S.

Kemptonville (3007)

	Cut 1	Cut 2	Cut 3	Total (Kg/Ha)
Thor	4805	3572	2472	10849
Saranac	5346	2907	2490	10743
531	4547	3210	2489	10246
Pacer	4751	2979	2489	10219
P.S. 10	4623	3168	2394	10185
Ceres	4379	3283	2493	10155
Atlas	4616	2945	2323	9884
Trident	4255	3228	2359	9842
Banner	4340	3109	2374	9823
NAPB 51	4467	2956	2362	9785
Anchor	4528	2977	2275	9780
Syn. C.T.	4621	2660	2438	9719
WL-318	4167	3041	2397	9605
Angus	4211	2968	2277	9456
CW 4	4368	2674	2260	9302
Answer	3874	2945	2203	9022
L.S.D. 5%	811	310	216	949
C.V.	12.64%	7.15%	6.35%	6.70%
F.	N.S.	**	N.S.	*

Ottawa (4016)

	Cut 1	Cut 2	Cut 3	Total (Kg/Ha)
Thor	5022	3305	2394	10721
Pacer	5411	3049	2165	10625
Anchor	5082	3247	2292	10621
P.S 10	4861	3362	2397	10620
Banner	4759	3393	2384	10536
WL-318	4628	3446	2388	10462
Ceres	4704	3303	2398	10405
Syn. C.T.	4947	3060	2208	10215
Trident	4716	3189	2304	10209
Angus	5052	3071	1978	10101
NAPB 51	4573	3209	2228	10010
Saranac	4819	3007	2156	9982
CW 4	4912	2923	2113	9948
Atlas	4760	3013	2164	9937
Answer	4737	3038	2122	9897
531	4493	3238	2131	9862
L.S.D. 5%	601	292	251	885
C.V.	8.68%	6.44%	7.85%	6.04%
F.	N.S.	*	*	N.S.

New Liskeard (8008)

	Cut 1	Cut 2	Total (Kg/Ha)
Syn. C.T.	4323	4195	8518
Banner	4276	3891	8167
Anchor	4168	3914	8082
P.S. 10	4081	3919	8000
Saranac	4169	3678	7847
Trident	3944	3823	7767
Angus	3836	3887	7723
Atlas	3605	3950	7555
Pacer	3793	3676	7469
Ceres	3665	3692	7357
Answer	3522	3817	7339
531	3317	3982	7299
Thor	3305	3775	7080
CW 4	3232	3723	6955
NAPB 51	3230	3594	6824
WL-318	3028	3575	6603
L.S.D. 5%	986	449	1208
C.V.	18.56%	8.23%	11.23%
F.	N.S.	N.S.	N.S.

Alfalfa Trials, 1977 Seedings, Medium Cultivars

Ridgetown (1045)

	Cut 1	Cut 2	Cut 3	Total (Kg/Ha)
WL 220	6614	4775	3437	14826
G 747	6776	5097	3418	15291
Dekalb 120	7629	5160	3468	16257
MLM 02019	7017	4870	3351	15238
Pioneer 524	7525	4988	3629	16142
MLM 02020	6840	4742	3230	14812
Vernal	6838	4405	3290	14533
Iroquois	6775	4456	3480	14711
Weevilcheck	7345	5175	3510	16030
Algonquin	6259	4956	3317	14531
Titan	6612	4573	2981	14166
CW 2	6513	4845	3720	15078
WL 202	6561	4750	3487	14798
Valor	7094	4764	3654	15512
Pioneer 520	6568	4635	3806	15009
MLM 02018	6774	5093	3902	15769
CW 9	6852	4910	3635	15397
WL-215	6798	4692	3126	14616
Pioneer 545	6268	4948	3502	14718
L.S.D. 5%	637	695	517	1293
C.V.	6.60%	10.17%	10.54%	6.04%
F.	**	N.S.	N.S.	N.S.

Guelph (2775)

	Cut 1	Cut 2	Cut 3	Total (Kg/Ha)
Pioneer 524	5367	3687	3054	12108
Pioneer 520	5375	3416	3237	12028
MLM 02020	5120	3873	3034	12027
Algonquin	5070	3102	3807	11979
Dekalb 120	5264	3650	3063	11977
MLM 02018	4926	3845	3007	11778
WL-202	4989	3498	3071	11558
MLM 02019	4961	3265	3282	11508
WL 220	5010	3474	3000	11484
G 747	4828	3592	2994	11414
Titan	4801	3424	3047	11272
Pioneer 545	4483	3714	3069	11266
WL-215	5322	2851	3040	11213
Iroquois	4865	3095	3234	11194
Weevilcheck	5095	3074	3000	11169
Vernal	4854	3242	3027	11123
Valor	4616	3500	2822	10938
CW 2	4595	3373	2804	10772
CW 9	4969	3123	2581	10673
L.S.D. 5%	633	830	526	1084
C.V.	9.00%	17.21%	12.15%	6.70%
F.	N.S.	N.S.	N.S.	N.S.

Kemptville (3008)

	Cut 1	Cut 2	Cut 3	Total (Kg/Ha)
WL 220	4587	3326	3287	11200
MLM 02018	4830	3157	3157	11144
MLM 02019	4646	3099	2973	10718
MLM 02020	4552	3166	2924	10642
Dekalb 120	4734	2789	2907	10430
G 747	4731	2921	2720	10372
Weevlcheck	4617	2532	3056	10205
Titan	4073	3122	2860	10055
Pioneer 520	4076	3071	2864	10011
Pioneer 545	4519	2766	2725	10010
WL-202	4199	2832	2912	9943
Iroquois	4129	3109	2687	9925
Pioneer 524	3882	3065	2866	9813
Valor	4488	2892	2430	9810
CW 9	4420	2628	2614	9662
Vernal	4020	2910	2726	9656
CW 2	4144	2884	2627	9655
WL-215	4106	2856	2599	9561
Algonquin	3653	2935	2671	9259
L.S.D. 5%	855	474	350	1147
C.V.	13.93%	11.37%	8.76%	8.02%
F.	N.S.	N.S.	**	N.S.

Ottawa (4015)

	Cut 1	Cut 2	Cut 3	Total (Kg/Ha)
WL 220	4603	3349	2135	10087
Dekalb 120	4865	3027	2030	9922
G 747	4758	2987	2157	9902
Iroquois	4612	3129	2147	9888
Pioneer 524	4589	2990	2295	9874
MLM 02020	4446	3006	2305	9757
MLM 02019	4348	3185	2205	9738
Pioneer 520	4294	3098	2258	9650
MLM 02018	4254	3069	2219	9542
Weevlcheck	4529	3008	1995	9532
Vernal	4511	3068	1896	9475
Valor	4464	2975	1950	9389
Titan	4709	2658	1936	9303
Algonquin	4673	2628	1867	9168
WL-202	4279	2950	1920	9149
Pioneer 545	4150	2934	1966	9050
CW 2	4140	2825	2049	9014
WL-215	4299	2905	1806	9010
CW 9	4086	2726	1918	8730
L.S.D. 5%	415	367	280	579
C.V.	6.58%	8.73%	9.64%	4.32%
F.	**	*	**	**

New Liskeard (8007)

	Cut 1	Cut 2	Total (Kg/Ha)
CW9	4137	4142	8279
Pioneer 545	4035	4061	8096
Iroquois	4227	3867	8094
MLM 02018	4068	4005	8073
Valor	4262	3781	8043
Titan	4195	3816	8011
Pioneer 524	4045	3913	7958
Dekalb 120	3889	4003	7892
MLM 02019	3898	3913	7811
Pioneer 520	3937	3691	7628
WL-202	4126	3473	7599
WL-215	3884	3628	7512
MLM 02020	3444	3982	7426
G 747	3700	3639	7339
Algonquin	3602	3731	7333
WL 220	3412	3914	7326
Vernal	3887	3253	7140
CW 2	3502	3590	7092
Weevilcheck	3210	3441	6651
L.S.D. 5%	695	534	911
C.V.	12.71%	9.99%	8.42%
F.	N.S.	N.S.	*

Birdsfoot Trefoil Varieties

Current status of varieties - October 31, 1978

Variety	Entered by	Official status	Station years data
Leo	O.F.C.C.	Licensed & Rec., O.F.C.C.	-
Empire	O.F.C.C.	Licensed & Rec., O.F.C.C.	-
Viking	O.F.C.C.	Licensed & Rec., O.F.C.C.	-
Maitland	O.F.C.C.	Licensed & Rec., O.F.C.C.	-
Carroll	O.F.C.C.	Licensed & Rec., O.F.C.C.	-
KO-4	Nat. N.K.	No support for license or rec. Reseed 1979	6

Forage yields and agronomic characteristics of 1976 seeded KO-4 and Leo trefoils in Ontario.

Location	Seed year	Harvest year	Forage yield					
			Cut 1		Cut 2		Total	
			Leo	KO-4	Leo	KO-4	Leo	KO-4
Ridgetown	76	77	6620	5314	3241	3684	9861	8998
Ottawa	76	77	5667	5154	3072	2921	8739	8076
		78	4591	4099	1179	1219	5771	5318
Kapuskasing	76	77	4394	4348	1910	2254	6304	6602
		78	4243	4000	2180	2168	6423	6168
Elora	76	78	4586	4257	2161	2490	6747	6746
		$\bar{x}$	<u>5017</u>	4529	<u>2291</u>	2456	<u>7308</u>	6985

Agronomic characteristics, 1976 seeding, of KO-4 and Leo trefoil at Elora.

Variety	Fall growth*		Maturity** 78 06 20	% Stand survival 78 05 15
	1977	1978		
Leo	6.0	4.8	40%	75%
KO-4	7.0	6.3	80%	82%

* 0 - least growth; 9 - most growth

** % bloom on date indicated

4014. Provincial trefoil test, Ottawa. Seeded 1976.

A-7076-77

A-7076-78

Variety	Yield (kg/ha) 1977			Yield (kg/ha) 1978		
	Cut 1	Cut 2	Total	Cut 1	Cut 2	Total
Leo	5667	3072	7001 8739	4591	1179	7001 5770
Empire	5364	2166	7003 7530	3820	*	7003 3820
Viking	4488	2370	7004 6858	3534	944	7004 4478
Maitland	4787	2804	7010 7591	3823	1247	7010 5070
Carroll	5371	2824	7021 8196	4084	713	7021 4797
KO-4	5154	2921	7026 8076	4099	1219	7026 5318
LSD 5%	684	524	1099	523	344	717
C.V.%	8.84	12.91	9.32	8.42	21.02	9.15
Mean	5139	2693	7832	3992	884	4876

* Empire not harvested, 2nd cut 1978.

10--. Provincial trefoil test, Ridgetown. Seeded 1976.

A-7076-77

Variety	Dry matter yield (kg/ha) 1977		
	Cut 1	Cut 2	Total
Leo	6620	3241	7001 9861
Empire	5776	2509	7003 8285
Viking	5098	3478	7004 8576
Maitland	5363	3776	7010 9139
Carroll	5731	3771	7021 9503
KO-4	5314	3684	7026 8998
LSD 5%	748	740	898
C.V.%	7.30	11.9	5.4

2506. Provincial trefoil test, Elora. Seeded 1976.

A-TELOR 76.78

Variety	Yield (kg/ha) 1978		Total
	Cut 1	Cut 2	
Leo	4586	2161	7001 6747
Empire	4567	1642	7003 6209
Viking	5785	2464	7004 8249
Maitland	4738	2733	7010 7471
Carroll	4461	2221	7021 6682
KO-4	4257	2489	7026 6746
LSD 5%	747	540	810
C.V. %	10.67	15.9	7.8
Mean	4756	2281	7037

6507. Provincial trefoil test, Kapuskasing. Seeded 1976.

A-TK 76.77

A-TK 76.78

Variety	Yield (kg/ha) 1977			Yield (kg/ha) 1978		
	Cut 1	Cut 2	Total	Cut 1	Cut 2	Total
Leo	4394	1910	7001 6304	4243	2180	7001 6423
Empire	4879	1231	7003 6110	4497	1811	7003 6308
Viking	4184	2179	7004 6363	3805	1872	7004 5677
Maitland	4131	2434	7010 6563	3714	1967	7010 5681
Carroll	4786	1839	7021 6624	4425	2100	7021 6525
KO-4	4348	2254	7026 6602	4000	2168	7026 6168
LSD 5%	N.S.	368	N.S.	649	378	767
C.V. %	9.7	12.4	8.5	10.5	12.5	8.3
Mean	4461	1976	6427	4114	2016	6130

ONTARIO RED CLOVER TRIALS

1976 Seedings

Double Cut Cultivars - Dollard, Lakeland, Redland, Ottawa, Prosper 1
Single Cut Cultivars - Altaswede, MLM 03006
Test Location - Guelph

1977 Seedings

Double Cut Cultivars - Ottawa, Lakeland, Florex, Prosper 1, Redland
Test Locations - Ridgetown, New Liskeard

1978 Seedings

No test was seeded in 1978.

Disposition of Varieties

At the 1978 meeting the following was described.

Prosper 1 - recommended in 1979
MLM 03006 } - no support for licensing or recommendation
Redland }

RED CLOVER 1978 YIELDS

1977 Seedings
Ridgetown 1047

A: RCK 77-78

	Cut 1	Cut 2 -kg/ha-	Cut 3	Total
K8-115 (Florex)	5020	2698	1689	4017 9407
Lakeland	4769	2352	588	4002 7709
Redland	4675	2555	1551	4026 8781
Prosper 1	5177	2557	1787	4027 9521
Ottawa	4811	3005	1526	4003 9342
L.S.D. (5%)	799	546	373	1213
C.V. (%)	10.61	13.44	16.93	8.79
F	n.s.	n.s.	**	*

New Liskeard 8703

A: RCL 77-78

	Cut 1	Cut 2 -kg/ha-	Total
K8-115 (Florex)	3489	2830	4017 6318
Lakeland	3777	2437	4002 6214
Redland	3665	3191	4026 6856
Prosper 1	3710	3129	4027 6839
Ottawa	3523	3336	4003 6859
L.S.D. (5%)	752	551	900
C.V. (%)	13.43	11.98	8.83
F	n.s.	*	n.s.

1976 Seedings
Guelph 6556

A: RCG 76-78

	Cut 1	Cut 2 -kg/ha-	Total
Prosper 1	3436	2454	4027 5890
Lakeland	3266	2461	4002 5727
Dollard	3210	2425	4001 5635
Ottawa	3010	2617	4003 5627
Redland	3130	2117	4026 5247
ML 03006	4217	294	4024 5411
A. aswede	2901	350	4006 3251
L.S.D. (5%)	638	268	701
C.V. (%)	12.97	9.94	9.2
F	**	**	**

ONTARIO WHITE CLOVER TRIALS

1977 Seedings

Varieties - Pilgrim, Ladino Cert., Common, Merit, Sacramento,
Szarvasi
Location - Guelph

1978 Seedings

Varieties - Szarvasi, Pilgrim, Ladino Cert., Common, Merit,
Sacramento
Locations - Ridgetown, Guelph, Kemptville, Kapuskasing,
Thunder Bay

WHITE CLOVER 1978 YIELDS

1977 Seeding
Guelph 6713

	Cut 1	Cut 2 -kg/ha-	Total
Merit	2748	2033	4781
Ladino	2556	1985	4541
Pilgrim	2599	1790	4389
Sacramento	2337	1987	4324
Szarvasi	2286	1758	4044
Common	2430	855	3285
L.S.D. (5%)	840	320	870
C.V. (%)	22.37	12.25	13.66
F	n.s.	**	*

See 1980 book
page 46

Bromegrass

Provincial bromegrass test results for 1978 are reported for 8 test years. Two of these are third year harvests for tests seeded in 1975; both are from northern Ontario locations. The other six tests reported are from 1976 seedings. This series of test concludes the testing program for the strains K1-105, S7380 and M.L.M. 13009. M.L.M. 13009 continued to show the superior performance that earned it licence support in 1977.

Performance of recommended varieties Baylor and Saratoga was satisfactory in all tests and the deferred varieties Beacon and Barton also performed well.

New tests were seeded in 1978 at Ottawa, Ridgetown and Thunder Bay to evaluate two new commercial entries M.L.M. 13010 and M.L.M. 13011 and two strains from the Saskatoon Research Station. These tests were reported apparently established by the end of the 1978 season.

A small test to compare the performance of the Deborah variety of Bromus carinatus with Saratoga and Baylor was seeded in 1977 at five locations. Data are reported for Ridgetown, Kapuskasing, Ottawa, Thunder Bay and Guelph. Performance of Deborah at the different locations was variable ranging from very good at Ottawa to poorer than the check at several locations. Dry weather probably accounted for some of the low yields.

F.S. WARREN
Coordinator

Ontario Bromegrass Tests

F2

1978 hay yields from 1975 seeding

Variety or strain	Yield (DM kg/ha)		Total
	Cut 1	Cut 2	
<u>Expt. 7084</u>	<u>Thunder Bay</u>		
Baylor	4788	332	5120
Saratoga	4816	430	5246
Tempo	5553	504	6057
Beacon	4712	243	4955
Barton	6302	844	7146
K1-105	5526	288	5814
S7380-A	5222	185	5407
S8805	6437	330	6768
Baylor C	5859	500	6359
MLM13009	5730	507	6237
mean	5494	417	5911
L.S.D. (5%)	1153	N.S.	1311
C.V. (%)	14.5	74.5	15.3
<u>Expt. 8205</u>	<u>New Liskeard</u>		
Baylor	6527	2815	9342
Saratoga	6428	2904	9332
Tempo	6900	2961	9861
Beacon	6335	2400	8735
Barton	5501	2204	7705
K1-105	6583	2086	8669
S7380 A	6512	2295	8808
S8805	5662	2314	7976
Baylor C	7088	2626	9714
MLM13009	6293	2809	9101
mean	6383	2541	8924
L.S.D. (5%)	N.S.	N.S.	N.S.
C.V. (%)	20.7	23.5	15.2

Ontario Bromegrass Tests

1978 Hay Yields from 1975 seedings at 2 Locations in Ontario
(Total DM kg/ha, 2 cuts)

<u>Variety or strain</u>	<u>Location</u>		Mean
	Thunder Bay 7084	New Liskeard 8205	
Expt. No.			
Baylor	5120	9342	7231
Saratoga	5246	9332	7289
Tempo	6057	9861	7959
Beacon	4955	8735	6845
Barton	7146	7705	7426
K1-105	5814	8669	7242
S7380 A	5407	8808	7108
S8805	6768	7976	7372
Baylor C	6359	9714	8036
MLM13009	6237	9101	7669
mean	5911	8924	7418
L.S.D. (5%)	1311	1967	
C.V. (%)	15.3	15.2	

Ontario Bromegrass Tests

F4

1978 hay yields from 1976 seedings

Variety or strain	Yield (DM kg/ha)		Total
	Cut 1	Cut 2	
<u>Expt. 1044</u>	<u>Ridgetown</u>		
Baylor	6707	5217	11925
Saratoga	6294	5978	12272
Tempo	6195	5138	11333
Beacon	6369	5850	12219
Barton	6786	6205	12991
K1-105	6323	4660	10983
S7380	6423	5340	11762
MLM13009	6041	5348	11388
mean	6392	5467	11859
L.S.D. (5%)	585	637	841
C.V. (%)	6.2	7.9	4.8
<u>Expt. 3004</u>	<u>Kemptville</u>		
Baylor	4851	3727	8579
Saratoga	4744	3933	8677
Tempo	4875	3976	8851
Beacon	4817	3703	8520
Barton	4729	3913	8642
K1-105	4769	3914	8683
S7380	5319	4071	9389
MLM13009	5087	4138	9226
mean	4899	3922	8821
L.S.D. (5%)	N.S.	N.S.	N.S.
C.V. (%)	14.7	8.7	10.4

Ontario Bromegrass Tests

F5

1978 hay yields from 1976 seedings

Variety or strain	Yield (DM kg/ha)		Total
	Cut 1	Cut 2	
<u>Expt. 4763</u>	<u>Ottawa</u>		
Baylor	3728	2935	6662
Saratoga	4310	2904	7214
Tempo	4289	2543	6832
Beacon	4276	2892	7168
Barton	3994	3280	7274
K1-105	3962	3080	7042
S7380	4778	3252	8030
MLM13009	4517	2921	7438
mean	4221	2939	7160
L.S.D. (5%)	555	N.S.	747
C.V. (%)	9.0	12.3	7.1

<u>Expt. 6006</u>	<u>Kapuskasing</u>		
Baylor	4182	1647	5829
Saratoga	4161	2030	6192
Tempo	4476	1721	6197
Beacon	4037	1888	5926
Barton	3870	2291	6161
K1-105	3855	1757	5612
S7380	4359	1427	5786
MLM13009	4000	2511	6511
mean	4118	1909	6027
L.S.D. (5%)	N.S.	649	N.S.
C.V. (%)	10.8	23.1	9.1

Ontario Bromegrass Tests

F6

1978 hay yields from 1976 seedings

Variety or strain	Yield (DM kg/ha)		Total
	Cut 1	Cut 2	
<u>Expt. 8206</u>		<u>New Liskeard</u>	
Baylor	6745	2749	9493
Saratoga	5832	2717	8549
Tempo	5689	3365	9054
Beacon	6150	3363	9513
Barton	6458	3147	9605
K1-105	6336	2740	9076
S7380	6066	2986	9052
MLM13009	5910	3535	9445
mean	6148	3075	9223
L.S.D. (5%)	N.S.	471	N.S.
C.V. (%)	18.7	10.4	13.6

<u>Expt. 8207</u>		<u>New Liskeard</u>	
Baylor	4069	2892	6961
Saratoga	4016	3127	7143
Tempo	4476	3032	7508
Beacon	4360	3249	7609
Barton	4053	3322	7375
K1-105	4207	2706	6913
S7380	4473	3687	8160
MLM13009	4358	3388	7746
mean	4252	3175	7427
L.S.D. (5%)	N.S.	389	726
C.V. (%)	8.8	8.3	6.6

Ontario Bromegrass Tests

1978 Hay Yields from 1976 seedings at 5 Locations in Ontario (Total DM Yield, kg/ha, 2 cuts)

<u>Variety or strain</u>	<u>Location</u>						
Expt. No.	Ridgetown 1044	Kemptville 3004	Ottawa 4763	Kapus. 6006	8206 ^{1.}	N. Liskeard 8207 ^{2.}	Mean
Baylor	11925	8579	6662	5829	9493	6961	8241
Saratoga	12272	8677	7214	6192	8549	7143	8341
Tempo	11333	8851	6832	6197	9054	7508	8296
Beacon	12219	8520	7168	5926	9513	7609	8393
Barton	12991	8642	7274	6161	9605	7375	8675
K1-105	10983	8683	7042	5612	9076	6913	8051
S7380	11762	8389	8030	5786	9052	8160	8530
MLM13009	11388	9226	7438	6511	9445	7746	8626
mean	11859	8821	7160	6027	9223	7427	8419
L.S.D. (5%)	841	N.S.	747	N.S.	N.S.	726	
C.V. (%)	4.8	10.4	7.1	9.1	13.6	6.6	

1. Not included in means for 1977 yields.

2. Fall seeded in 1976.

Ontario Bromegrass Tests
1977 and 1978 Hay Yields from 1976 Seeding
Means for all Locations (DM kg/ha 2 cuts)

<u>Variety</u> <u>or strain</u>	<u>Southern</u> <u>locations</u>	<u>Northern</u> <u>locations</u>	<u>All</u> <u>locations</u>
Baylor	9505	7387	8543
Saratoga	9601	7095	8462
Tempo	9223	7189	8298
Beacon	9701	7804	8839
Barton	9838	7484	8768
K1-105	9183	7282	8319
S7380	9283	7688	8613
MLM 13009	9372	7735	8628
mean	9463	7458	8461
No. of test- years	6	5	11

Ontario Bromegrass Tests

F9

1978 hay yields from 1977 seedings

Variety	Yield (DM kg/ha)		Total
	Cut 1	Cut 2	
Location	<u>Ridgetown</u>	Exp. 1050	
Deborah	4439	3714	8153
Saratoga	6188	3710	9898
Baylor	6537	3007	9544
mean	5721	3477	9198
L.S.D. (5%)	634	N.S.	1465
C.V. (%)	6.4	20.1	9.2

Location	<u>Ottawa</u>	Exp. 4773	
Deborah	5278	5063	10341
Saratoga	4281	3446	7727
Baylor	4273	3792	7065
mean	4611	3767	8378
L.S.D. (5%)	501	540	757
C.V. (%)	8.4	11.1	7.0

Location	<u>Kapuskasing</u>	Exp. 6007	
Deborah	4979	1898	6877
Saratoga	5062	2224	7286
Baylor	4905	1950	6855
mean	4982	2024	7006
L.S.D. (5%)	N.S.	N.S.	N.S.
C.V. (%)	17.9	14.5	14.0

Ontario Bromegrass Tests

1978 hay yields from 1977 seedings

Variety	Yield (DM kg/ha)			Total
	Cut 1	Cut 2	Cut 3	
Location	<u>Guelph</u>			
Deborah	3200	2840	3230	9270
Saratoga	5010	2310	2890	10210
Baylor	5290	1780	2850	9920
mean	4500	2310	2990	9800

Location	<u>Thunder Bay</u>		Expt. 7108
Deborah	2564	1895	4459
Saratoga	6356	2052	8408
Baylor	6968	2018	8986
mean	5296	1988	7284
L.S.D. (5%)	363	N.S.	301
C.V. (%)	9.2	9.5	5.6

Expt. 1048

Ridgetown, Ontario

Provincial Orchardgrass Test 1978

Seeded 1977

Yield in dry matter kg/ha

Variety	Cut 1	Cut 2	Total	Mean
Juno	5823	3025	8848	4424
Ina	5580	3094	8674	4337
Dayton	5636	3121	8757	4379
WWH 92	5241	3409	8650	4325
Tardus II	5320	3011	8331	4166
Napier	5685	3161	8546	4273
K2-7	4953	2536	7489	3745
Sumas	5559	3168	8727	4364
K3-9	5483	3312	8795	4397
K2-8	5408	3114	8522	4261
Nordstern	5749	3562	9311	4656
Comet	5344	2898	8242	4121
Hallmark	5723	3384	9107	4554
Kay	5706	2883	8589	4295
Frode	5259	2916	8175	4088
L.S.D. (5%)	627.81	479.74	743.27	
C.V. (%)	7.99	10.81	6.05	
Mean	5498	3106	8604	

Expt. 2778

Guelph, Ontario

Provincial Orchardgrass Test 1978

Seeded 1977

Yield in dry matter kg/ha

Variety	Cut 1	Cut 2	Cut 3	Total	Mean
Comet	5327	2623	2891	10842	3614
Hallmark	5187	2879	2757	10824	3608
Sumas	4600	3175	2667	10442	3481
Ina	4658	2911	2681	10250	3417
WWH 92	4546	2702	2962	10209	3403
Juno	5071	2613	2152	9836	3279
Tardus II	4095	3337	2378	9810	3270
K2-8	4337	3410	2038	9785	3262
Frode	4416	3044	2288	9749	3250
K3-9	4058	3165	2339	9562	3187
Nordstern	4337	3140	2024	9501	3167
Dayton	4228	2627	2538	9393	3131
Napier	4587	2820	1936	9343	3114
Kay	4212	2821	2009	9043	3014
K2-7	3740	2629	2081	8450	2817
L.S.D. (5%)	601.08	660.31	564.96	1028.33	
C.V. (%)	8.00	13.49	14.18	6.27	
Mean	4493	2926	2383	9803	

Expt. 8501

New Liskeard, Ontario
Provincial Orchardgrass Test 1978

Seeded 1977

Yield in dry matter kg/ha

Variety	Cut 1	Cut 2	Total	Mean
Sumas	4301	4354	8656	4328
Frode	4196	4435	8631	4315
Hallmark	4297	4231	8528	4264
K3-9	4229	4239	8468	4234
Nordstern	4245	4078	8323	4162
Kay	4128	3977	8105	4053
K2-8	4113	3902	8015	4008
K2-7	4334	3670	8004	4002
WWH 92	3695	4207	7902	3951
Napier	4061	3747	7808	3904
Dayton	3936	3859	7795	3898
Tardus II	3625	4169	7793	3897
Juno	4098	3683	7781	3890
Ina	3458	4296	7754	3877
Comet	3601	3752	7354	3677
L.S.D. (5%)	772.99	522.50	977.79	
C.V. (%)	13.46	9.05	8.49	
Mean	4021	4040	8061	

Summary of Orchardgrass Test
Provincial Orchardgrass Test 1978
Seeded 1977
Yield in dry matter kg/ha

Variety	Ridgetown	Guelph	New Liskeard	Mean
Juno	8848	9836	7781	8822
Ina	8674	10250	7754	8893
Dayton	8757	9393	7795	8648
WWH 92	8650	10209	7902	8920
Tardus II	8331	9810	7793	8645
Napier	8546	9343	7808	8566
K2-7	7489	8450	8004	7981
Sumas	8727	10442	8656	9275
K3-9	8795	9562	8468	8942
K2-8	8522	9785	8015	8774
Nordstern	9311	9501	8323	9045
Comet	8242	10842	7354	8813
Hallmark	9107	10824	8528	9486
Kay	8589	9043	8105	8579
Frode	8175	9749	8631	8852

Expt. 3005

Kemptville, Ontario
 Provincial Orchardgrass Test 1978
 Seeded 1976
 Yield in dry matter kg/ha

Variety	Cut 1	Cut 2	Total	Mean
Sumas	5743	3267	9010	4505
Ina	5390	3491	8881	4441
Juno	5817	2902	8720	4360
MLM 14010	4931	3511	8441	4221
Nordstern	5600	2804	8404	4202
K2-8	5934	2380	8314	4157
Kay	5133	3137	8270	4135
K3-9	5116	3152	8268	4134
K2-7	5444	2824	8268	4134
Hallmark	4633	3616	8249	4124
Dayton	4965	3283	8248	4124
Ottawa 6	5370	2851	8221	4110
Comet	5058	3154	8213	4106
MLM 14009	4699	3478	8177	4089
Napier	5217	2951	8168	4084
OX-1	5155	2994	8149	4075
Frode	4797	3284	8081	4040
Tardus II	4431	3527	7958	3979
L.S.D. (5%)	871.59	599.67	1021.11	
C.V. (%)	11.81	13.42	8.62	
Mean	5191	3145	8336	

Kemptville, Ontario
Provincial Orchardgrass Test
Seeded 1976
Yield in dry matter kg/ha

Variety	1977 Total	1978 Total	2 years Mean
MLM 14009	10228	8177	9203
Hallmark	9903	8249	9076
K3-9	9845	8268	9057
Comet	9821	8213	9017
Sumas	9671	9010	9341
Ina	9593	8881	9237
Napier	9446	8168	8807
Nordstern	9430	8404	8917
K2-8	9405	8314	8860
MLM 14010	9398	8441	8920
OX-1	9150	8149	8650
Tardus II	9032	7958	8495
Juno	9019	8720	8870
Dayton	8880	8248	8564
Kay	8824	8270	8547
Frode	8780	8081	8431
Ottawa 6	8308	8221	8265
K2-7	7898	8268	8083

Expt. 4761

Ottawa, Ontario
Provincial Orchardgrass Test 1978
Seeded 1976
Yield in dry matter kg/ha

Variety	Cut 1	Cut 2	Total	Mean
Juno	4456	2750	7207	3604
Ina	4235	2925	7160	3580
K2-8	4776	2166	6942	3471
MLM 14009	4354	2580	6934	3467
Sumas	4579	2346	6925	3463
OX-1	4461	2451	6912	3456
Nordstern	4982	1905	6887	3444
MLM 14010	4067	2765	6831	3416
Hallmark	4248	2415	6662	3331
K3-9	4687	1947	6634	3317
Dayton	4612	1984	6596	3298
Ottawa 6	4517	1982	6499	3250
K2-7	4452	1980	6433	3217
Kay	4036	2120	6155	3078
Tardus II	3822	2254	6076	3034
Napier	4044	2019	6064	3032
Frode	3423	2344	5767	2884
Comet	3513	2226	5739	2870

Summary of Varieties for Discussion
 Provincial Orchardgrass Test
 Yield in dry matter kg/ha

EARLY

Variety	Seeded 1977			Seeded 1976		Ottawa Yield/78	Mean 6 sta.
	Ridgetown Yield/78	Guelph Yield/78	N. Liskeard Yield/78	Kemptville Yield/77	Yield/78		
Hallmark	9107	10824	8528	9903	8249	6662	8879
Comet	8242	10842	7354	9821	8213	5739	8369
Dayton	8757	9393	7795	8880	8248	6596	8278

LATE

Kay	8589	9043	8105	8824	8270	6155	8164
K3-9	8795	9562	8468	9845	8268	6634	8595
K2-7	7489	8450	8004	7898	8268	6433	7757
K2-8	8522	9785	8015	9405	8314	6942	8497

Summary of Kay and Sumas
Provincial Orchardgrass Test

Station	Ridgetown					Ottawa			Guelph	N. Liskeard	Kemptonville		Kapus.	Mean
Data year	1975	1976	1976	1977	1978	1975	1976	1978	1978	1978	1977	1978	1975	13 sta.
Year seeded	1974	1974	1975	1975	1977	1974	1974	1976	1977	1977	1976	1976	1974	yrs.
Kay	8727	8083	8414	8463	8589	6667	4528	6155	9043	8105	8824	8270	4985	7604
Sumas	9339	8775	9036	8547	8727	6904	5308	6925	10442	8655	9671	9010	4687	8156

Timothy Varieties

Current status of varieties, October 1, 1977.

Variety	Entered by	Official status	Station years of data
Champ	O.F.C.C.	Recommended, Pub. 296	-
Climax	O.F.C.C.	Recommended, Pub. 296	-
Toro	O.F.C.C.	Recommended, Pub. 296	-
Basho	O.F.C.C.	Recommended, Pub. 296	-
Itasca	O.F.C.C.	Recommended, Pub. 296	-
Timfor	O.F.C.C.	Recommended, Pub. 296	-
Milton	O.F.C.C.	Recommended, Pub. 296	-
Pronto	Nat. N.K.	Licensed, deferred rec. (2)	-
Richmond	M.L.M.	Licensed, deferred rec. (4)	-
N7-126	Nat. N.K.	Supported for license, deferred rec. (4)	-
Odenwalder	O.S.E.C.O.	Support for license	8
Tim H7	M.L.M.	Support for license	8
Maris Polka	Nat. Seed	Not supported	8
MLM 07017	M.L.M.	Not supported	6

Forage yields of '76 and '77 seeded timothy trials in Ontario.

Variety	Location	Seed year	Harvest year	Forage yields (kg/ha)		
				Cut 1	Cut 2	Total
Champ	Ridgetown	76	77	6593	3718	10312
		76	78	6394	2132	8526
	Kemptonville	76	77	4440	3160	7601
		76	78	4088	1732	5821
	Kemptonville	77	78	4659	3189	7848
	Thunder Bay	77	78	7840	0*	7840
	Guelph 75	75	76	6625	1050	7676
		75	77	7551	2765	10317
Climax	Ridgetown	76	77	6857	3396	10254
		76	78	6115	2871	8986
	Kemptonville	76	77	4500	2946	7447
		76	78	4320	2017	6337
		77	78	5249	3285	8534
	Thunder Bay	77	78	7763	0*	7763
	Guelph 75	75	76	7021	1039	8060
		75	77	9017	2775	11792
Odenwalder	Ridgetown	76	77	6385	3678	10063
		76	78	7202	2714	9917
	Kemptonville	76	77	4399	2631	7030
		76	78	4242	2093	6335
		77	78	4798	3433	8231
	Thunder Bay	77	78	7339	0*	7339
	Guelph 75	75	76	6652	1157	7810
		75	77	6775	2679	9455
Maris Polka	Ridgetown	76	77	7186	3107	10294
		76	78	6407	2074	8481
	Kemptonville	76	77	4008	2831	6840
		76	78	4374	2185	6559
		77	78	5043	3160	8202
	Thunder Bay	77	78	7267	0*	7267
	Guelph	75	76	7705	1127	8833
		75	77	6612	2564	9177
MLM 07017	Ridgetown	76	77	6548	3326	9874
		76	78	6141	2554	8695
	Kemptonville	76	77	4531	2486	7018
		76	78	4308	1952	6260
		77	78	4582	3053	7635
	Thunder Bay	77	78	7309	0*	7309
TIM H-7	Ridgetown	76	77	6012	3236	9429
		76	78	6284	2330	8614
	Kemptonville	76	77	4405	3025	7431
		76	78	4713	1860	6573
	Kemptonville	77	78	4824	2893	7717
	Thunder Bay	77	78	7725		7725
	Guelph 75	75	76	7722	814	8537
		75	77	7921	2564	10486

* 2nd cut data omitted because of a high CV.

Provincial mean forage yields for '75, '76 and '77 seeded timothy trials.

Variety	Station years	Mean forage yield (kg/ha)		
		Cut 1	Cut 2	Total
Champ	8	6024	2218	8242
Climax	8	6355	2291	8646
Odenwalder	8	5974	2298	8272
Maris Polka	8	6075	2131	8206
MLM 07017	6	5253	2116	7369
TIM H-7	8	6201	2090	8291

Mean forage yield (kg/ha) of '75, '76, and '77 seed timothy trials for Northern Ontario, Southern Ontario and Provincial means.

Variety	Forage yield (kg/ha)				Provincial mean
	Northern $\bar{X}$	Station years	Southern $\bar{X}$	Station years	
Champ	7840	1	8300	7	8242
Climax	7763	1	8773	7	8646
Odenwalder	7339	1	8404	7	8272
Maris Polka	7267	1	8341	7	8206
TIM H-7	7725	1	7896	7	8291
MLM 07017	7309	1	8372	5	7369

2750. Timothy provincial trial, Guelph. Seeded 1975.

Variety	Yield-1976 (kg/ha)		Yield-1977 (kg/ha)		
	Cut 1	Total	Cut 1	Cut 2	Total
Climax	7021	8060	9017	2775	11,792
Pronto	7409	8439	8246	2671	10,917
Milton	7212	8235	8019	2707	10,727
Medon	7133	8134	8058	2465	10,524
MLM Tim H7 (Goliath)	7722	8537	7921	2564	10,486
Itasca	7277	8315	7728	2705	10,434
Timfor (N7-128)	6814	7818	7817	2569	10,387
Champ	6625	7676	7551	2765	10,317
Mahndorfer	7077	8051	7763	2481	10,244
S3-9 (Basho or	7667	8931	7070	2994	10,064
L-84 (Toro)	7383	8759	6814	2897	9,711
CIV 2A	6051	6757	7101	2427	9,528
Odenwalder	6652	7810	6775	2679	9,455
Maris Polka	7705	8833	6612	2564	9,177
Gusto	5951	6467	5863	2457	8,320
Winda (CIV BA)	4681	5154	5865	2067	7,932
LSD (5%)	1356	1379	1024	281	1,035
Total mean	6899	7873	7389.25	2612.12	10,001.36
C.V.	13.8	12.3	9.7	7.5	7.2

1043. Timothy provincial trial, Ridgetown. Seeded 1976.

Variety	Yield 1977 (kg/ha)			Yield 1978 (kg/ha)		
	Cut 1	Cut 2	Total	Cut 1	Cut 2	Total
MLM 17011 (Richmond)	7001	3821	10,822	6175	2694	8695
Itasca	7116	3678	10,794	6447	2349	8796
Timfor (N7-128)	6885	3844	10,730	6404	3403	9807
Milton	7122	3489	10,612	6559	2658	9217
S3-9 (Basho)	6760	3646	10,406	6063	2714	8777
L-84 (Toro)	6986	3389	10,376	6350	2341	8691
Champ Check	6593	3718	10,312	6394	2132	8526
Maris Polka	7186	3107	10,294	6407	2074	8481
Climax	6857	3396	10,254	6115	2871	8986
Odenwalder	6385	3678	10,063	7202	2714	9917
MLM 07017	6548	3326	9,874	6141	2554	8695
N7-126	6319	3508	9,828	6999	2559	9558
Pronto	6282	3510	9,793	6132	2028	8160
MLM Tim H7 (Goliath)	6012	3236	9,249	6285	2330	8615
LSD 5% (kg/ha)	700	420	830	787	623	907
Total mean (kg/ha)	6720	3520	10,240	6405	2530	8935
C.V.	7.34	8.29	5.68	7.32	14.67	6.05

3006. Timothy provincial trial, Kemptville. Seeded 1976.

Variety	Yield (kg/ha)			Yield 1978 (kg/ha)		
	Cut 1	Cut 2	Total	Cut 1	Cut 2	Total
Timfor (N7-128)	5934	3512	9447	4320	2232	6552
Itasca	5069	3000	8069	4248	2178	6426
Milton	4717	3160	7878	4481	2180	6661
MLM 07017	4531	2486	7018	4308	1952	6260
Champ	4440	3160	7601	4088	1732	5820
N7-126	4499	2996	7495	3886	2045	5931
MLM 17011 (Richmond)	4445	3047	7492	3837	1903	5740
Climax	4500	2946	7447	4321	2016	6337
MLM Tim H7 (Goliath)	4405	3025	7431	4713	1861	6574
L-84 (Toro)	4720	2674	7394	4418	1877	6295
Odenwalder	4399	2631	7030	4242	2093	6335
Pronto	4875	2979	7854	4219	1700	5819
Maris Polka	4008	2831	6840	4374	2185	6559
S3-9 (Basho)	3630	3008	6638	3849	1689	5338
LSD 5% (kg/ha)	N.S.	N.S.	N.S.	579	481	622
Total mean (kg/ha)	4580	2960	7540	4236	1975	6211
C.V.	16.8	18.0	14.3	9.57	17.05	7.01

3009. Timothy provincial trial, Kemptville. Seeded 1977.

Variety	1978 yield (kg/ha)		Total
	Cut 1	Cut 2	
Timfor	5365	3888	9253
L-84 (Toro)	5299	3511	8810
Itasca	5033	3649	8682
Climax	5249	3285	8534
Milton	5010	3436	8446
MLM 17011 (Richmond)	4822	3587	8409
S3-9 (Basho)	4735	3615	8350
N7-125 (Pronto)	4962	3332	8294
N7-126	4590	3662	8252
Odenwalder	4798	3434	8232
Maris Polka	5043	3159	8202
Champ	4659	3189	7848
MLM Tim H7 (Goliath)	4824	2893	7717
MLM 17017	4582	3053	7635
LSD 5% (kg/ha)	711	446	904
Total mean (kg/ha)	4927	3407	8333
C.V.	10.11	9.18	7.60

7106. Timothy provincial trial, Thunder Bay. Seeded 1977.

Variety	1978 yield (kg/ha)		Total
	Cut 1	Cut 2*	
Champ	7840	0	7840
N7-125 (Pronto)	7822	0	7822
Timfor (N7-128)	7695	0	7695
Climax	7763	0	7763
L-84 (Toro)	7089	0	7089
Itasca	7399	0	7399
Odenwalder	7339	0	7339
S3-9 (Basho)	7168	0	7168
MLM Tim H7 (Goliath)	7725	0	7725
N7-126	7232	0	7232
MLM 17011 (Richmond)	6794	0	6794
MLM 17017	7309	0	7309
Maris Polka	7267	0	7267
Milton	6738	0	6738
LSD 5% (kg/ha)	908		908
Total mean (kg/ha)	7370		7370
C.V.	8.63		8.63

* Cut 2 data omitted because of high C.V.