MANITOBA

FORAGE CULTIVAR

EVALUATION

PROGRAM

2005 REPORT

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Funding support provided by:
Agricultural Research and Development Initiative
Covering New Ground – Agricultural Sustainability Initiative
Green Cover Program – Agriculture and Agri-Food Canada
Greenhouse Gas Mitigation Program for Canadian Agriculture (MZTRA)
Manitoba Agriculture, Food and Rural Initiatives
Manitoba Forage Council
and
Forage Seed Industry Partners

This report is a compilation of data to date, and as such, may contain information that may be amended through subsequent research.

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Arborg	Forage Operated by: Manitoba Forage Council
Ste. Pierre	Forage Operated by: Manitoba Forage Council (New site: established in 1999)
Neepawa/Rosebank	Forage Operated by: Manitoba Forage Council (Contracted with Proven Seed Trials have been seeded in Rosebank since 2003
Roblin	Forage Operated by: Parkland Crop Diversification Foundation

2005 Program Partners

Agricultural Research & Development Initiative	**Parkland Crop Diversification Foundation**
Covering New Ground – Agricultural Sustainability Initiative	**Proven Seed**
Green Cover Program – Agriculture and Agri-Food Canada	**S.S. Johnson Seeds**
Greenhouse Gas Mitigation Program for Canadian Agriculture (MZTRA)	**The Western Forage Variety Testing System**
Manitoba Agriculture, Food and Rural Initiatives	**University of Manitoba- Plant Science Dept.**
Manitoba Forage Council	**Westman Agricultural Diversification Org.**
Manitoba Forage Seed Association	

2005 TESTING PROGRAM

The Manitoba Forage Variety Testing Program is operated by the Manitoba Forage Council. This report of the 2005 Forage Cultivar Evaluation Program in Manitoba compiles data from trials located at Arborg, Neepawa, Roblin and St. Pierre. All forage trials reported have been inspected and approved by the Manitoba Forage Crop Committee Cultivar Sub-Committee**.** Trials were operated under guidelines approved by this committee. Results are used in both registration and recommendation, with a summary of results provided to Manitoba Agriculture for publication in Seed Manitoba 2006.

USING THIS REPORT

The **Forage Dry Matter yield** data for 2005 is reported in kilograms per hectare (kg/ha) for each cut. Total forage yields for 2005 and preceding years of test are presented in kg/ha and as a percentage of an appropriate check cultivar within each trial.

The statistics presented include a coefficient of variability (C.V.) and a value of least significant difference at the 0.05 level of probability [LSD (0.05)].

Presenting the yield of cultivars as a percentage of check provides a relative standard of comparison, and is not an absolute basis for differentiating cultivars. For example, a cultivar, which yields 105% of the check, may not be truly different from a cultivar, which yields 95% of the check. A more appropriate procedure of mean comparison is the LSD, which provides a minimum value that two cultivar mean yields must exceed, before they can be declared truly different. The probability level pertains to the degree of confidence associated with the mean comparison. At the p(0.05) level, we can expect the LSD procedure to give us a true measure of the mean difference 95% of the time. The C.V. can be utilized to determine the relative precision between cuts or tests. Uncontrolled factors such as heavy weed infestation or uneven stands will tend to increase the C.V. of a test. A comparison of cultivars from different tests is not advisable, since tests vary in growing conditions.

ACKNOWLEDGEMENTS

The trial program could not be conducted without the help received from the *Program Partners*. The use of machinery and facilities of the **Manitoba Forage Seed Association,** the use of greenhouse facilities of the **University of Manitoba** and the use of land from **S.S. Johnson Seeds**. Thank you for all your support and invaluable contribution to this program.

Thank-you to those that helped out this year, especially my part time help Tannis Tait whose flexible schedule, hard work, long hours and dedication to this project are much appreciated. Thank you to Lee Tait for your long hours on the road hauling and fixing equipment, as well as for being there whenever help was needed. **Also, special thanks to Marvin Johnston and Fern Berard whose assistance in times of emergency was much appreciated.** You were all indispensable in helping to make the 2005 season a success.

A Special thanks to Glenn Friesen, of Manitoba Agriculture, Food and Rural Initiatives for your knowledge, assistance and support. Glenn has made it a smooth transition, since taking

over the reins of the forage testing program from Dave Campbell in 2005. Also, thanks to Dave Campbell for your continued assistance even in retirement.

PROGRESS REPORT

The 2005 season marked the fifth year The Manitoba Forage Council has operated the Forage Variety Testing Program with four sites throughout Manitoba. These include, Arborg, St.Pierre, Roblin (operated by the Parkland Crop Diversification Foundation) and Rosebank, which is contracted to Proven. The Rosebank site replaced the previous site located in Neepawa, since 2003. However, trials seeded in 2002 were still being maintained at the old Neepawa site.

Combinations of legume and grass Western Forage (WF) tests were harvested at the various sites throughout the province in the 2005 season. A brief summary of this year's harvest is as follows: Arborg and Rosebank reported two cuts from the WF Alfalfa trials seeded in 2002, 2003, and 2004. Roblin reported one cut from the WF 2002 Alfalfa trial and St.Pierre reported two cuts from the 2003 Wf Alfalfa test. Yields from the 2005 season completed three years of testing for the WF 2002 Alfalfa test in Arborg, Neepawa and Roblin. The final test to be reported for the legume trials was from the WF 2002 Cicer Milkvetch test in St. Pierre, which completed this three year test at this site. A brief summary of the grass trials is as follows: Arborg, St. Pierre and Rosebank took the first harvest of the following WF 04 grass trials of Meadow Bromegrass, Meadow Fescue, Orchardgrass and Timothy. Two cuts were taken from the 04 orchardgrass and Timothy tests in Arborg and Rosebank. The harvest of the WF 2001 and 2002 Timothy trials in 2005 completed testing for these trials in Arborg and marked the second year of testing in St.Pierre (the 2001 and 2002 Timothy trials had to be reseed in 2003 due to poor stand establishment). The Wf 2002 Orchardgrass trial was also completed in Arborg this past season with two cuts reported. The Wf 2001 Tall Fescue test was also finished this year at both the Arborg and St.Pierre sites. All sites excluding Roblin reported a 03 Tall Fescue harvest, with Arborg and St.Pierre reporting two cuts. Finally to finish up this year's harvest, three cuts were taken from the 2005 WF Italian and Westerwold Ryegrasses at the Rosebank site.

Although a successful year, all the test locations, like the rest of the province experienced some negative effects due to the above average rainfalls experienced this season. Three of the four test sites reported that the dates for first harvest were greatly delayed well into July. Also apparent, were the varying yields throughout some trials due to heavy rains and prolonged flooding, indicated by the high C.V. of some tests. The worst flood damage was reported from St.Pierre where the Wf alfalfa trial seeded in 2002 was lost, as was the fourth rep of the Wf alfalfa trial seeded in 2003. Arborg and St.Pierre had to delay seeding of the Wf 2005 Timothy trials until early August, due to high rainfall in the spring. Arborg also reseeded the 04 Meadow Bromegrass test in late August due to flood damage. The young seedlings looked good well into the fall. The 2005 Wf Alfalfa trial (10 varieties) will be seeded in the 2006 season in Arborg and St.Pierre, as it was believed at the time, a late summer seeding and early killing frost may not have provided sufficient time for establishment. However, this was not the case, as many areas experienced an extended warm fall evident by harvest dates reported in late October. Further proof of the high water

levels experienced this year was evident in the poor condition of some grass trials in mid July. The grasses seemed to have a yellow and drought like appearance in this short period of hot and dry weather. High surface moisture caused shallow root development in these trials, which left plants vulnerable when surface moisture began drying.

A huge accomplishment this year was the establishment of a winter hardiness trial at two test sites containing thirty seven alfalfa varieties. In early June 3600 alfalfa seedlings were hand planted at Arborg and Rosebank despite heavy rains. These plants were intensely managed for weed control and clipping regiment. The alfalfa seedlings were clipped three times throughout the season with a final clipping shortly after a killing frost. Plants were counted just prior to a killing frost and surviving plants will then be counted in the spring of 2006 to determine winter survival of the alfalfa varieties. The results of these trials will be available in the 2007 Manitoba Seed Guide and the 2006 Forage Cultivar Evaluation Program Report.

WINTER SURVIVAL IN ALFALFA

Winter survival is probably one of the most important characteristics for alfalfa production in Manitoba. In Canada, researchers have long sought to measure the ability of specific forage cultivars to survive the harsh winter conditions that are inherent with a high latitude and continental climate. Winter survival is not a difficult trait to measure given 5 to 10 years, but the rapid release of new cultivars, especially alfalfa, requires that winterhardiness predictions be available in a much shorter time frame.

A testing procedure for winterhardiness has been developed in Manitoba that provides test results available within approximately 15 months. It involves transplanting 8 to 12 week old alfalfa seedlings from the greenhouse to the field in late May. The individual plants are maintained as space plants and frequently clipped at the early to mid-bud stage until mid-September. This clipping regime forces the plant to enter the winter in a stressed condition, allowing for more consistent winter injury even in mild to moderate winters. Plants are then rated on a 1-5 scale (1 -vigorous, healthy plant; 5 - dead plant) the following spring. These actual injury scores have been converted into a winter survival index (WSI) for the sake of presentation on the following pages. A WSI of 1 means that the cultivar survives Manitoba winters very well, and alternatively, a WSI of 6 means a cultivar does not survive Manitoba winters. **Cultivars with a WSI of 1 to 3 are considered acceptable for Manitoba conditions. Numbers of site-years tested in Manitoba are listed in brackets beside the cultivar name. Please note that data is more reliable when 2 or more site years of data have been collected.**

ARBORG & ROSEBANK MB WINTERHARDINESS ALFALFA RESULTS
2000 ESTABLISHED TEST

CULTIVAR	WINTER INJURY SCALE: 1 (Healthy) – 5 (Dead)		2001 MB MEAN	RANK
	2001 Results			
	Arborg	Rosebank		
5301	2.7	4.1	3.4	38
A5-5-4241	2.5	3.7	3.1	27
ABLE	2.2	3.9	3.1	26
ABSOLUTE	2.2	3.7	3.0	21
AC CARIBOU	2.2	2.8	2.5	5
AC LONGVIEW	2.3	4.2	3.3	35
ALGONQUIN	2.4	3.5	3.0	20
APICA	2.4	3.7	3.0	23
ARABIAN OXS	5.0	5.0	5.0	49
ARROW	3.0	3.7	3.4	37
BEAVER	2.2	2.7	2.3	3
BY 1	2.3	2.7	2.6	7
BY 2	2.2	2.8	2.5	4
BY 3	2.7	3.7	3.2	32
CUF 101	4.7	5.0	4.9	48
GALA	2.4	3.3	2.8	17
GENEVA	2.4	3.9	3.2	30
HAYGRAZER	3.0	4.4	3.7	40
HEINRICHS	2.1	3.2	2.6	11
KEY	3.0	4.7	3.8	41
LAHONTAN	3.4	4.7	4.1	44
LIVE	2.0	3.2	2.6	9
MESILLA	3.5	4.9	4.2	45
MOAPA 69	4.4	5.0	4.8	46
ND 79 OXS	4.5	5.0	4.8	47
OAC MINTO	2.6	2.8	2.8	14
PHI 5929	4.8	5.0	5.0	50
PICKSEED 8920MF	2.4	3.5	2.9	19
PICKSEED 8925MF	2.7	3.8	3.2	33
RAM	3.0	4.8	3.9	42
RANGELANDER	2.2	2.8	2.5	6
RUNNER	2.3	3.2	2.8	12
SARANAC	2.5	3.9	3.2	31
SPREDOR 2	2.2	2.1	2.1	1

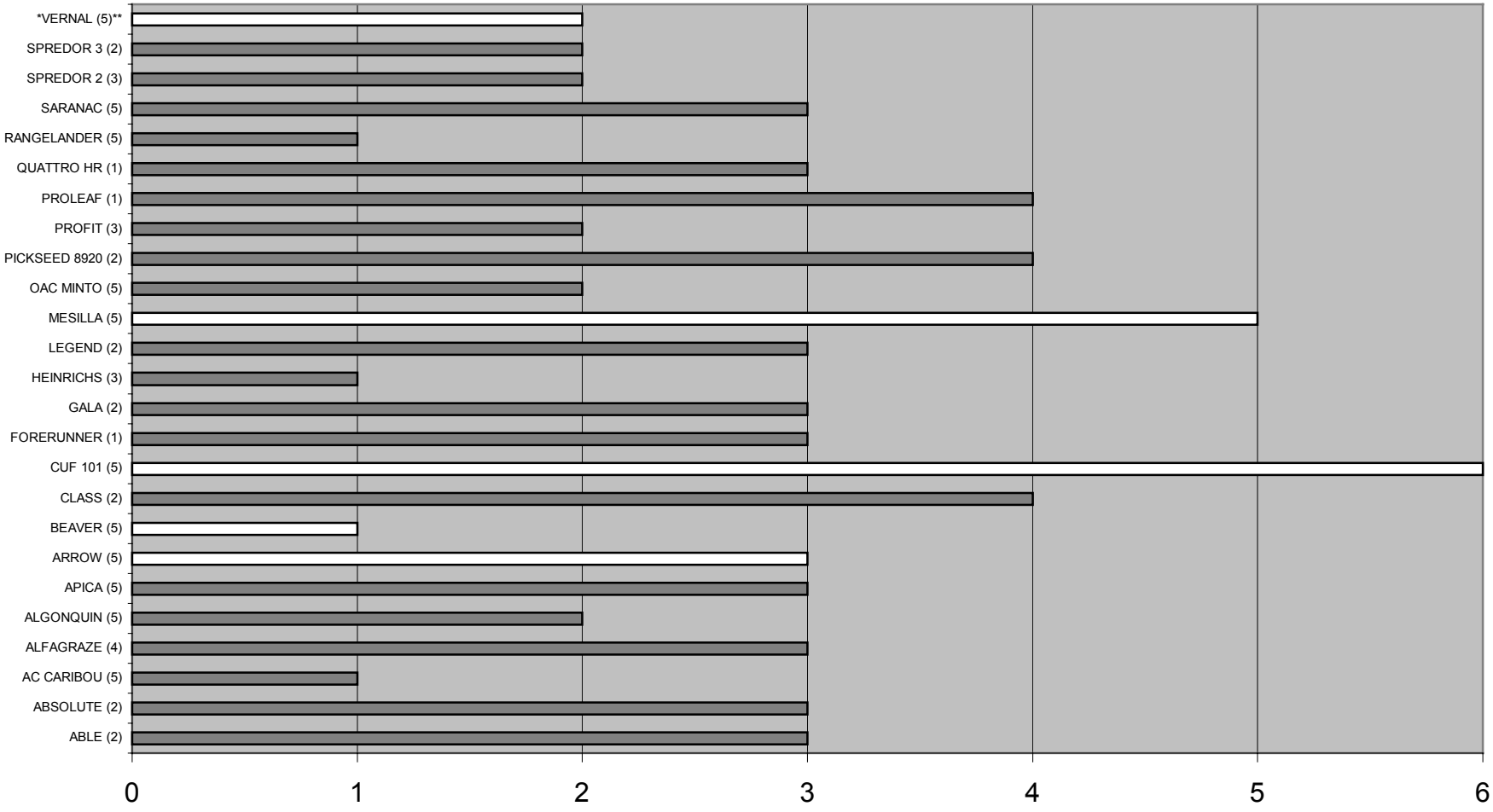
CULTIVAR	Arborg	Rosebank	MB Mean	Rank
SPREDOR 3	2.1	2.5	2.3	2
SUTTER	3.7	4.5	4.0	43
VECTOR	2.7	4.3	3.5	39
VERNAL	2.5	3.6	3.0	25
ZC 9640A	2.4	3.8	3.1	28
ZC 9851A	2.4	4.1	3.3	36
ZC 9854A	2.2	3.5	2.8	15
ZG 9834	2.0	3.2	2.6	8
ZG 9910	2.5	3.2	2.8	16
ZG 9920	2.1	3.1	2.6	10
ZG 9930	2.3	3.5	3.0	22
ZG 9931	2.1	3.6	2.9	18
ZG 9940	2.3	3.2	2.8	13
ZG 9941	2.0	4.2	3.1	29
ZM 9939	2.7	3.8	3.2	34
ZN 9833	2.5	3.6	3.0	24
MEAN	2.7	3.7	3.2	
C.V.	15.9	12.9	14.3	
LSD (0.05)	0.6	0.7	0.5	

**** Please note: Some of these varieties have only one year of data – use with caution.***

WINTERHARDINESS RATINGS FOR ALFALFA CHECK VARIETIES
ESTABLISHED TESTS 1994 - 2000
(First Year After Establishment Comparison)

	WINTER INJURY SCALE: 1 (healthy) – 5 (dead)										
	1995 (Est. 1994)		1996 (Est. 1995)		1997 (Est.1996)		1998 (Est. 1997)		2001 (Est. 2000)		TOTAL MB MEAN
CULTIVAR	ARB	CAR	ARB	CAR	ARB	CAR	ARB	CAR	ARB	ROS	
AC CARIBOU	2.1	2.3	1.7	1.6	1.9	1.7	1.9	1.9	2.2	2.8	2.0
ALFAGRAZE	3.9	2.8	1.9	1.9	2.5	1.8	1.9	2.1	-	-	2.4
ALGONQUIN	2.2	2.2	1.6	1.6	1.6	1.7	1.8	2.0	2.4	3.5	2.1
APICA	3.3	2.5	1.8	2.0	2.1	1.8	1.9	2.3	2.4	3.7	2.4
ARROW	3.7	2.9	1.9	2.3	2.6	1.9	2.2	2.4	3.0	3.7	2.7
BEAVER	2.7	2.2	1.7	1.5	1.7	1.6	1.9	1.8	2.2	2.7	2.0
CUF 101	5.0	4.3	4.6	5.0	5.0	4.7	4.0	4.8	4.7	5.0	4.7
MESILLA	4.8	4.4	2.7	4.3	4.8	3.1	2.8	4.1	3.5	4.9	3.9
MOAPA 69	5.0	4.9	4.5	4.9	5.0	4.6	3.5	4.4	4.4	5.0	4.6
OAC MINTO	3.7	2.2	1.9	2.4	1.9	1.7	1.8	2.0	2.6	2.8	2.3
RANGELANDER	2.1	1.7	1.5	1.5	1.7	1.6	1.7	1.8	2.2	2.8	1.9
SARANAC	3.7	2.3	1.8	2.3	2.3	2.0	1.9	2.4	2.5	3.9	2.5
VERNAL	2.9	2.9	1.9	1.8	2.1	1.8	1.9	2.1	2.5	3.6	2.4
MEAN	3.5	3.0	2.3	2.5	2.7	2.3	2.2	2.6	2.9	3.7	
C.V.	14.8	19.2	8.58	9.5	13.5	12.1	11.9	9.3	15.9	12.9	
LSD (0.05)	0.7	0.7	0.2	0.3	0.4	0.3	0.3	0.3	0.6	0.7	

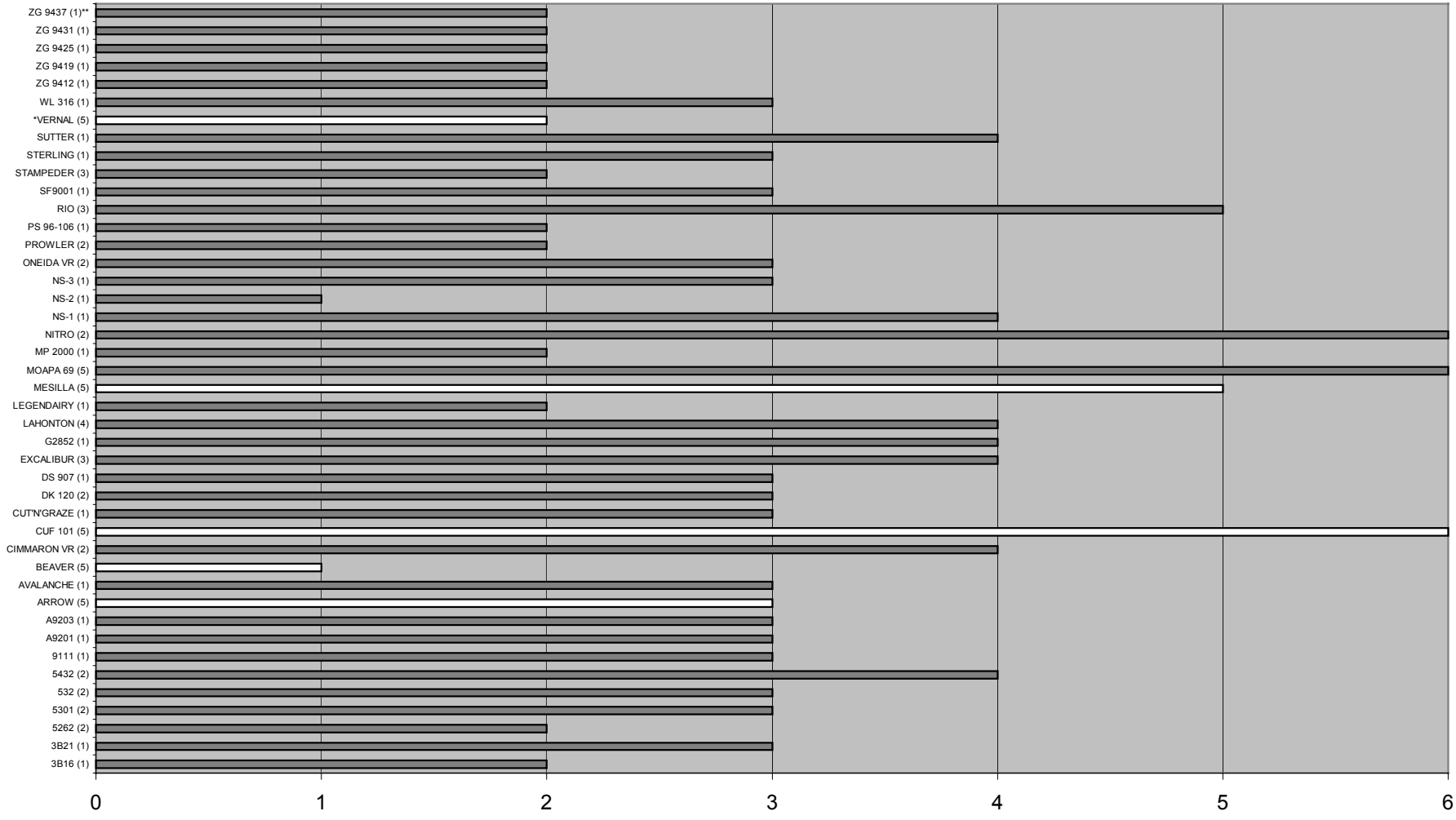
Manitoba Winter Survival Index For Selected Alfalfa Cultivars Listed in Seed Manitoba



***White bars represent check varieties**

****Number in brackets represent site-years of data**

Manitoba Winter Survival Index For Registered and Non-Registered Alfalfa Cultivars



*White bara represent check varirties

** Number in brackets represents site-years of data

SUMMARY OF ALFALFA YIELDS: 2001 – 2005 DATA NON-REGISTERED VARIETIES

	Arborg										ST.PIERRE										NEEPAWA									
	00 WF			01 WF			02 WF			03 WF		04 WF	00 WF			01 WF			02 WF			03 WF		04 WF	00 WF			01 WF			02 WF			03 WF		04 WF
Cultivar	01	02	03	02	03	04	03	04	05	04	05	05	01	02	03	02	03	04	03	04	05	04	05	05	01	02	03	02	03	04	03	04	05	04	05	05
3M49										89	95											94	100												92	
55V05							92	94	94										100	101	-										79	84	94			
9603	88	107	96										105	101	100										92	96	100									
C227													100	111	99																					
CW 52044												103																								103
CW 73038	98	105	93										103	102	102										79	105	104									
CW 83021												107																								107
DK 124	81	102	91										103	103	99										92	88	101									
DK 134	104	100	85										98	110	102										84	101	103									
DS 233							88	89	95										103	105	-										89	84	89			
DS 234							92	97	98										101	96	-										76	99	95			
DS 235							105	97	114										106	107	-										91	97	97			
DS 236							95	95	95										106	107	-										91	103	100			
DS 335										105	111											90	115												93	
DS 336										97	104											88	97												75	
DS 337										92	103											99	105												100	
DS 2000	99	111	95										106	104	102										88	100	101									
DS027-BY	102	102	95										100	102	103										89	107	101									
DS028-BY	101	103	100										104	105	104										101	107	104									
DS029-BY	100	98	94										97	97	92										91	107	99									
DS030-BY	92	102	95										93	103	97										89	118	99									
DS380-BY	101	100	97										103	103	102										83	108	112									
EX 101	107	107	102										101	98	99										90	93	98									
LOSAP				91	84	84										99	91	84										73	77	83						
LRC 01CR							98	90	94										102	101	-										87	96	111			

SUMMARY OF ALFALFA YIELDS: 2001 – 2005 DATA NON-REGISTERED VARIETIES

	Arborg											ST.PIERRE											NEEPAWA										
	00 WF			01 WF			02 WF			03 WF		04 WF	00 WF			01 WF			02 WF			03 WF		04 WF	00 WF			01 WF			02 WF			03 WF		04 WF
Cultivar	01	02	03	02	03	04	03	04	05	04	05	05	01	02	03	02	03	04	03	04	05	04	05	05	01	02	03	02	03	04	03	04	05	04	05	05
MS Sunstra-422												111												104												104
MS Sunstra-423												100												111												111
NS01DA				101	97	100										104	98	99										90	93	82						
NS01M5				95	103	106										100	92	106										86	90	88						
NS01M7				90	93	99										98	92	100										76	84	90						
NS02CK							101	96	95										91	101	-										86	90	102			
P435												103												99												99
Pickseed 3008	83	106	85										108	102	105										81	79	91									
RG-4G73												107												103												103
SW LU8407										90	103											105	111											111		

SUMMARY OF ALFALFA YIELDS: 2001 – 2004 DATA REGISTERED VARIETIES

	Arborg												ST.PIERRE												NEEPAWA											
	00 WF			01 WF			02 WF			03 WF		04 WF	00 WF			01 WF			02 WF			03 WF		04 WF	00 WF			01 WF			02 WF			03 WF		04 WF
Cultivar	01	02	03	02	03	04	03	04	05	04	05	05	01	02	03	02	03	04	03	04	05	04	05	05	01	02	03	02	03	04	03	04	05	04	05	05
54Q25							105	94	104										101	107	-										78	96	77			
54V46										104	98											94	108											99		
54V54	106	105	101										100	102	104										92	97	106									
AC Blue J	102	96	93	98	93	96	94	97	115	98	97	101	106	95	99	97	100	94	103	101	-	106	108		92	100	99	89	98	89	82	93	110		102	
AC Longview				106	100	101										96	103	101										93	105	94						
Beaver	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	100	100	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	-	**100**	100		**100**	**100**	**100**	**100**	**100**	**100**	**100**	100	100		100	
Rambler	106	97	104	99	102	101	97	95	95	93	97	91	103	100	96	97	88	101	103	100	-	90	97		88	109	106	101	96	89	96	105	101		95	
Rangelander	106	100	100	104	105	96	99	93	99	93	116	94	103	103	96	97	95	92	107	112	-	97	105		100	99	102	101	90	91	98	102	85		99	
Starbuck				105	105	94										106	91	93										80	86	96						
Stock Well				108	93	103										112	100	100										93	102	94						

NOTES: All numbers given are percentages of Beaver. For actual yield numbers, see the yield data or yield summary for the particular test.

00 WF was seeded in 2000, in Arborg St.Pierre and Neepawa
02 WF was seeded in 2002, Arborg, St.Pierre and Neepawa
03 WF was seeded in 2003, Arborg, St.Pierre and Rosebank
04 WF was seeded in 2003, Arborg, St.Pierre and Rosebank

2002 WF ALFALFA TEST NEEPAWA, MB
REVISED 2004 FORAGE YIELDS (kg/ha)

CULTIVAR	% BEAVER	TOTAL 2005	CUT 1 JULY 16	CUT 2 AUG 24
54Q25	96	11911	7209	4702
55V05	84	10407	6191	4081
AC Blue J	93	11574	6981	4593
Beaver	**100**	**12418**	**8235**	**4183**
DS233	84	10489	6467	4022
DS234	99	12333	7693	4770
DS235	97	12025	7616	4410
DS236	103	12740	7808	4932
LRC 01CR	96	11977	7487	4490
NS02CK	90	11181	7190	3992
Rambler	105	13000	9404	3597
Rangelander	102	12721	8767	3953
MEAN		11898	7587	4310
C.V.		10.99	11.52	15.28
LSD (0.05)		1885	1259	949

2001 WF MEADOW BROMEGRASS TEST NEEPAWA, MB
REVISED 2004 FORAGE YIELDS (kg/ha)

CULTIVAR	% FLEET	TOTAL 2004	CUT 1 JULY 15
95MD-2	99	5604	5604
FLEET	**100**	**5685**	**5685**
MEAN		5644	5644
C.V.		6.88	6.88
LSD (0.05)		874	874

2001 WF MEADOW BROMEGRASS TEST NEEPAWA, MB
REVISED TEST SUMMARY (kg/ha)

CULTIVAR	TEST AVERAGE		2004		2003		2002	
	% FLEET	TOTAL	% FLEET	TOTAL	% FLEET	TOTAL	% FLEET	TOTAL
95MD-2	102	4446	99	5604	99	4677	116	3056
FLEET	**100**	**4348**	**100**	**5685**	**100**	**4724**	**100**	**2636**
MEAN				5644		4700		3172
C.V.				6.88		12.6		13.9
LSD (0.05)				874		1330		819

2001 WF SMOOTH BROMEGRASS TEST NEEPAWA, MB
REVISED 2004 FORAGE YIELDS (kg/ha)

CULTIVAR	% CARLTON	TOTAL 2004	CUT 1 JULY 12
CARLTON	**100**	**8348**	**8348**
SFB9001	96	8020	8020
MEAN		8184	8184
C.V.		4.00	4.00
LSD (0.05)		737	737

2001 WF SMOOTH BROMEGRASS TEST NEEPAWA, MB
REVISED TEST SUMMARY (kg/ha)

CULTIVAR	TEST AVERAGE		2004		2003		2002	
	% CARLTON	TOTAL	% CARLTON	TOTAL	% CARLTON	TOTAL	% CARLTON	TOTAL
CARLTON	**100**	**4697**	**100**	**8348**	**100**	**2350**	**100**	**3393**
SFB9001	99	4639	96	8020	109	2567	98	3331
MEAN				8184		2459		3362
C.V.				4.00		14.4		5.9
LSD (0.05)				737		1240		702

2001 WF TIMOTHY FORAGE TEST NEEPAWA, MB
REVISED 2004 FORAGE YIELDS (kg/ha)

CULTIVAR	% CLIMAX	TOTAL 2004*	CUT 1 JULY 15
BARFLEO	98	2713	2713
BARNEE	56	1543	1543
BARTIMO	81	2228	2228
CLIMAX	**100**	**2763**	**2763**
DOLINA	92	2549	2549
EXPRESS	108	2995	2995
LPHL 458	87	2409	2409
NIKLAS	70	1944	1944
TUNDRA	92	2541	2541
MEAN		2409	2409
C.V.		23.40	23.40
LSD (0.05)		824	824

*** NOTE - Please use this data with caution, as a high CV is indicated for this data.**

2001 WF TIMOTHY FORAGE TEST NEEPAWA, MB
REVISED TEST SUMMARY (kg/ha)

CULTIVAR	TEST AVERAGE		2004*		2003*		2002	
	% climax	TOTAL	% climax	TOTAL	% climax	TOTAL	% climax	TOTAL
BARFLEO	120	3209	98	2713	140	3511	121	3404
BARNEE	87	2356	56	1543	69	1724	135	3800
BARTIMO	90	2416	81	2228	91	2282	97	2737
CLIMAX	**100**	**2693**	**100**	**2763**	**100**	**2504**	**100**	**2812**
DOLINA	98	2651	92	2549	99	2490	104	2914
EXPRESS	122	3288	108	2995	115	2869	142	4000
LPHL 458	95	2561	87	2409	85	2124	112	3151
NIKLAS	94	2534	70	1944	100	2497	112	3161
TUNDRA	105	2829	92	2541	121	3038	103	2909
MEAN				2409		2560		3210
C.V.				23.40		28.3		19.4
LSD (0.05)				824		1068		755

* NOTE - Please use this data with caution, as a high CV is indicated for this data

1999 WF ALFALFA TEST NEEPAWA, MB
2004 FORAGE YIELDS (kg/ha)

CULTIVAR	% BEAVER	TOTAL 2004	CUT 1 JULY 16	CUT 2 AUG 24
3030	90	10193	6599	3594
4241	87	9830	6675	3155
2065MF	93	10505	6900	3605
ANCHOR	97	10930	7241	3689
BEAVER	**100**	**11303**	**7569**	**3735**
C227	94	10580	6928	3652
C304	98	11086	7221	3865
CW4223	87	9809	6596	3213
CW6408	94	10630	7016	3614
DS9923	92	10443	6846	3598
DS9924	96	10887	7221	3666
DS9925	90	10164	6961	3203
DS9927	97	10915	7288	3626
DS9928	92	10390	6847	3543
DS9929	100	11266	7414	3852
GENEVA	86	9709	6440	3269
GIBRALTER	83	9419	6187	3232
RAMBLER	91	10258	7022	3236
R922	94	10668	6719	3949
R923	96	10855	7908	2947
SL9900	104	11721	7711	4009
SL9901	96	10830	7325	3505
SL9902	87	9855	6782	3073
ZG9831	84	9510	6543	2967
MEAN		11303	7569	3735
C.V.		8.86	8.59	15.28
LSD (0.05)		1312	848	753

2000 WF ALFALFA TEST NEEPAWA, MB
2004 FORAGE YIELDS (kg/ha)

CULTIVAR	% BEAVER	TOTAL 2004	CUT 1 JUNE 25	CUT 2 JULY 29
3008	93	9022	5806	3216
54V54	110	10677	6720	3957
9603	103	10027	6410	3617
AC BLUE J	102	9904	6726	3178
BEAVER	**100**	**9720**	**6736**	**2984**
CW 73038	119	11524	7240	4285
DK 124	109	10609	6806	3803
DK 134	103	9984	6840	3145
DS027-BY	112	10856	6780	4076
DS028-BY	115	11147	7451	3682
DS029-BY	103	10029	6467	3562
DS030-BY	108	10526	6439	4087
DS2000	101	9804	6416	3388
DS380-BY	108	10529	6844	3686
EX 101	117	11326	7449	3877
RAMBLER	111	10772	7538	3234
RANGELANDER	111	10780	7732	3048
MEAN		9720	9.23	2984
C.V.		8.90	899	12.49
LSD (0.05)		1320	5806	635

2001 WF ALFALFA TEST NEEPAWA, MB
2004 FORAGE YIELDS (kg/ha)

CULTIVAR	% BEAVER	TOTAL 2004	CUT 1 JULY 16	CUT 2 AUG 24
AC BLUE J	86	10890	7150	3740
AC LONGVIEW	87	10966	6672	4295
BEAVER	**100**	**12643**	**8727**	**3916**
LOSAP	74	9314	5855	3459
NS01DA	87	10952	6685	4267
NS01M5	82	10333	6567	3766
NS01M7	77	9704	6191	3513
RAMBLER	87	11035	7528	3507
RANGELANDER	97	12234	8263	3971
STARBUCK	82	10391	6552	4011
STOCKWELL	101	12824	8079	4745
MEAN		12643	8727	3916
C.V.		9.23	12.16	12.43
LSD (0.05)		1472	1250	706

2003 WF ALFALFA TEST ROSEBANK, MB
2004 FORAGE YIELDS (kg/ha)

CULTIVAR	% BEAVER	TOTAL 2004	CUT 1 JULY 05	CUT 2 AUG 04	CUT 3 OCT 09
3M49	100	13550	7073	3421	3056
54V46	97	13083	6502	3715	2866
AC Blue J	100	13581	7328	3368	2885
Beaver	**100**	**13542**	**7370**	**3307**	**2865**
DS 335	95	12904	6742	3371	2791
DS 336	99	13416	6820	3459	3137
DS 337	104	14149	7322	3743	3084
Rambler	98	13312	8552	2843	1917
Rangelander	96	12943	8174	2788	1981
SW LU8407	103	13936	7015	3528	3393
MEAN		13541	7369	3306	2865
C.V.		6.50	9.30	10.00	6.50
LSD (0.05)		1276	988	486	264

2002 WF ALFALFA TEST ROBLIN, MB
2004 FORAGE YIELDS (kg/ha)

CULTIVAR	% BEAVER	TOTAL 2004	CUT 1 JULY 27-28
54Q25	83	3482	3482
55V05	83	3502	3502
AC Blue J	106	4472	4472
Beaver	**100**	**4210**	**4210**
DS233	93	3924	3924
DS234	97	4096	4096
DS235	113	4756	4756
DS236	103	4351	4351
LRC 01CR	90	3782	3782
NS02CK	96	4025	4025
Rambler	116	4882	4882
Rangelander	82	3469	3469
MEAN		4079	4079
C.V.		20.86	20.86
LSD (0.05)		1224	1224

2002 WF CICER MILKVETCH TEST ROBLIN, MB
2004 FORAGE YIELDS (kg/ha)

CULTIVAR	% OXLEY	TOTAL 2004	CUT 1 AUG 03
OXLEY	**100**	**3476**	**3476**
LRC 94-1	142	4949	4949
MEAN		4212	4212
C.V.		17.95	17.95
LSD (0.05)		1701	1701

2002 WF CICER MILKVETCH TEST ROBLIN, MB
2004 TEST SUMMARY (kg/ha)

CULTIVAR	TEST AVERAGE		2004		2003	
	% OXLEY	TOTAL	% OXLEY	TOTAL	% OXLEY	TOTAL
OXLEY	**100**	**1807**	**100**	**3476**	**100**	**138**
LRC 94-1	141	2541	142	4949	96	132
MEAN				4212		135
C.V.				17.95		7.03
LSD (0.05)				1701		21

2003 WF TALL FESCUE TEST ROSEBANK, MB
2004 FORAGE YIELDS (kg/ha)

CULTIVAR	% COURTNEY	TOTAL 2004	CUT 2 JULY 08
COURTNEY	**100**	**10411**	**10411**
TF 10111	57	5887	5888
UMTF	88	9143	9144
MEAN		10411	10411
C.V.		9.50	9.50
LSD (0.05)		1393	1393

2002 WF ORCHARDGRASS TEST NEEPAWA, MB
2004 FORAGE YIELDS (kg/ha)

CULTIVAR	%KAY	TOTAL 2004	CUT 1 JULY 16
AC KILLARNEY	146	3143	3143
KAY	**100**	**2151**	**2151**
SOGO1	175	3773	3773
MEAN		3022	3022
C.V.		18.20	18.20
LSD (0.05)		950	950

2002 WF ORCHARDGRASS TEST NEEPAWA, MB
TEST SUMMARY (kg/ha)

CULTIVAR	TEST AVERAGE		2004		2003	
	% BEAVER	TOTAL	% BEAVER	TOTAL	% BEAVER	TOTAL
AC KILLARNEY	134	2701	146	3143	121	2259
KAY	**100**	**2009**	**100**	**2151**	**100**	**1866**
SOGO1	162	3253	175	3773	146	2732
MEAN				3022		2286
C.V.				18.20		19.36
LSD (0.05)				950		804

2004 WF ITALIAN RYEGRASS FORAGE TEST ROSEBANK, MB
2004 FORAGE YIELDS (kg/ha)

CULTIVAR	% MARIS LEDGER	TOTAL 2004	CUT 1 JULY 26	CUT 2 AUG 25	CUT 3 Oct 09
MARIS LEDGER	**100**	**12747**	**4538**	**3169**	**5040**
NS04-101	88	11087	3414	2839	4833
MEAN		12670	4538	3169	5040
C.V.		10.90	18.90	3.30	10.00
LSD (0.05)		3942	2291	225	1113

2004 WF WESTERWOLD RYEGRASS FORAGE TEST ROSEBANK, MB
2004 FORAGE YIELDS (kg/ha)

CULTIVAR	% AUBADE	TOTAL 2004	CUT 1 JULY 26	CUT 2 AUG 25	CUT 3 OCT 09
AUBADE	**100**	**12645**	**4112**	**4195**	**4337**
ELUNARIA	107	13493	4818	4287	4388
MEAN		12645	4112	4195	4337
C.V.		1.90	2.00	1.00	5.10
LSD (0.05)		566	203	92	499

2002 WF ALFALFA TEST ARBORG, MB
2005 FORAGE YIELDS (kg/ha)

CULTIVAR	% BEAVER	TOTAL 2005	CUT 1 JULY 07	CUT 2 AUG 23
54Q25	104	8439	5300	3139
55V05	94	7595	4473	3122
AC Blue J	115	9323	5661	3662
Beaver	**100**	**8109**	**4595**	**3514**
DS233	95	7721	4476	3245
DS234	98	7907	4742	3165
DS235	114	9235	5783	3452
DS236	95	7674	4535	3139
LRC 01CR	94	7655	4429	3226
NS02CK	95	7695	4266	3429
Rambler	95	7742	4946	2796
Rangelander	99	8055	5172	2883
MEAN		8096	4865	3231
C.V.		9.35	14.19	7.62
LSD (0.05)		1090	993	354

2002 WF ALFALFA TEST ARBORG, MB
TEST SUMMARY (kg/ha)

CULTIVAR	TEST AVERAGE		2005		2004		2003	
	% BEAVER	TOTAL	% BEAVER	TOTAL	% BEAVER	TOTAL	% BEAVER	TOTAL
54Q25	101	6792	104	8439	94	7067	105	4871
55V05	93	6307	94	7595	94	7077	92	4248
AC Blue J	103	6989	115	9323	97	7284	94	4361
Beaver	**100**	**6757**	**100**	**8109**	**100**	**7542**	**100**	**4620**
DS233	91	6163	95	7721	89	6719	88	4049
DS234	96	6485	98	7907	97	7318	92	4231
DS235	105	7125	114	9235	97	7296	105	4844
DS236	95	6403	95	7674	95	7136	95	4400
LRC 01CR	94	6321	94	7655	90	6786	98	4522
NS02CK	97	6529	95	7695	96	7248	101	4645
Rambler	96	6471	95	7742	95	7170	97	4502
Rangelander	97	6560	99	8055	93	7043	99	4581
MEAN				8096		7140		4489
C.V.				9.35		8.4		11.4
LSD (0.05)				1090		865		738

2002 WF ALFALFA TEST NEEPAWA, MB
2005 FORAGE YIELDS (kg/ha)

CULTIVAR	% BEAVER	TOTAL 2005*	CUT 1 AUG 04*
54Q25	77	6016	6016
55V05	94	7304	7304
AC Blue J	110	8602	8602
Beaver	**100**	**7809**	**7809**
DS233	89	6954	6954
DS234	95	7446	7446
DS235	97	7578	7578
DS236	100	7804	7804
LRC 01CR	111	8695	8695
NS02CK	102	7994	7994
Rambler	101	7907	7907
Rangelander	85	6674	6674
MEAN		7565	7565
C.V.		22.96	22.96
LSD (0.05)		2562	2562

*** NOTE - Please use this data with caution, as a high CV is indicated for this data.**

2002 WF ALFALFA TEST NEEPAWA, MB
TEST SUMMARY (kg/ha)

CULTIVAR	TEST AVERAGE		2005*		2004		2003	
	% BEAVER	TOTAL	% BEAVER	TOTAL	% BEAVER	TOTAL	% BEAVER	TOTAL
54Q25	85	8169	77	6016	96	11911	78	6581
55V05	85	8130	94	7304	84	10407	79	6679
AC Blue J	94	9042	110	8602	93	11574	82	6951
Beaver	**100**	**9570**	**100**	**7809**	**100**	**12418**	**100**	**8484**
DS233	87	8317	89	6954	84	10489	89	7509
DS234	91	8742	95	7446	99	12333	76	6446
DS235	95	9122	97	7578	97	12025	91	7762
DS236	99	9430	100	7804	103	12740	91	7745
LRC 01CR	98	9337	111	8695	96	11977	87	7340
NS02CK	92	8831	102	7994	90	11181	86	7319
Rambler	101	9679	101	7907	105	13000	96	8131
Rangelander	97	9237	85	6674	102	12721	98	8317
MEAN				7565		11898		7439
C.V.				22.96		10.99		12.2
LSD (0.05)				2562		1885		1307

*** NOTE - Please use this data with caution, as a high CV is indicated for this data.**

2002 WF ALFALFA TEST ROBLIN, MB
2005 FORAGE YIELDS (kg/ha)

CULTIVAR	% BEAVER	TOTAL 2005*	CUT 1 JULY 28*
54Q25	68	1979	1979
55V05	80	2326	2326
AC Blue J	78	2277	2277
Beaver	**100**	**2907**	**2907**
DS233	83	2418	2418
DS234	89	2581	2581
DS235	75	2168	2168
DS236	72	2101	2101
LRC 01CR	74	2150	2150
NS02CK	74	2157	2157
Rambler	96	2782	2782
Rangelander	90	2610	2610
MEAN		2371	2371
C.V.		22.49	22.49
LSD (0.05)		767	767

*** NOTE - Please use this data with caution, as a high CV is indicated for this data.**

2002 WF ALFALFA TEST ROBLIN, MB
TEST SUMMARY (kg/ha)

CULTIVAR	TEST AVERAGE		2005*		2004		2003	
	% BEAVER	TOTAL	% BEAVER	TOTAL	% BEAVER	TOTAL	% BEAVER	TOTAL
54Q25	77	1879	68	1979	83	3482	101	177
55V05	82	2002	80	2326	83	3502	102	179
AC Blue J	95	2315	78	2277	106	4472	112	196
Beaver	**100**	**2431**	**100**	**2907**	**100**	**4210**	**100**	**175**
DS233	89	2169	83	2418	93	3924	94	164
DS234	94	2289	89	2581	97	4096	108	189
DS235	97	2366	75	2168	113	4756	100	175
DS236	91	2206	72	2101	103	4351	95	166
LRC 01CR	84	2034	74	2150	90	3782	97	169
NS02CK	87	2122	74	2157	96	4025	105	184
Rambler	107	2611	96	2782	116	4882	97	169
Rangelander	86	2082	90	2610	82	3469	95	166
MEAN				2371		4079		176
C.V.				22.49		20.86		7.25
LSD (0.05)				767		1224		18

*** NOTE - Please use this data with caution, as a high CV is indicated for this data.**

2002 WF ALFALFA TEST ST.PIERRE, MB
2005 TEST SUMMARY (kg/ha)

CULTIVAR	TEST AVERAGE		2005		2004		2003	
	% BEAVER	TOTAL	% BEAVER	TOTAL	% BEAVER	TOTAL	% BEAVER	TOTAL
54Q25	103	9036		-	107	8125	101	9946
55V05	101	8813		-	101	7709	100	9917
AC Blue J	102	8905		-	101	7650	103	10160
Beaver	**100**	**8742**		-	**100**	**7606**	**100**	**9877**
DS233	104	9075		-	105	8001	103	10149
DS234	99	8667		-	96	7333	101	10000
DS235	107	9320		-	107	8171	106	10469
DS236	106	9282		-	107	8112	106	10451
LRC 01CR	102	8899		-	101	7713	102	10084
NS02CK	96	8356		-	101	7705	91	9007
Rambler	102	8892		-	100	7586	103	10197
Rangelander	109	9561		-	112	8539	107	10583
MEAN				-		7854		10070
C.V.				-		9.4		9.9
LSD (0.05)				-		1062		1427

*** Please Note: The 2002 Wf Alfalfa test was damaged due to flooding in the 2004 and 2005 season and therefore was removed from testing. There will be no further yields from this test.**

2003 WF ALFALFA TEST ARBORG, MB
2005 FORAGE YIELDS (kg/ha)

CULTIVAR	% BEAVER	TOTAL 2005	CUT 1 July 21
3M49	95	2943	2943
54V46	98	3025	3025
AC Blue J	97	2998	2998
Beaver	**100**	**3098**	**3098**
DS 335	111	3436	3436
DS 336	104	3209	3209
DS 337	103	3192	3192
Rambler	97	2992	2992
Rangelander	116	3584	3584
SW LU8407	103	3206	3206
MEAN		3168	3168
C.V.		9.32	9.32
LSD (0.05)		428	428

2003 WF ALFALFA TEST ARBORG, MB
2005 TEST SUMMARY (kg/ha)

CULTIVAR	TEST AVERAGE		2005		2004	
	% BEAVER	TOTAL	% BEAVER	TOTAL	% BEAVER	TOTAL
3M49	90	6560	95	2943	89	10176
54V46	102	7476	98	3025	104	11926
AC Blue J	98	7149	97	2998	98	11299
Beaver	**100**	**7298**	**100**	**3098**	**100**	**11497**
DS 335	106	7725	111	3436	105	12014
DS 336	99	7195	104	3209	97	11181
DS 337	94	6884	103	3192	92	10575
Rambler	94	6847	97	2992	93	10701
Rangelander	98	7136	116	3584	93	10687
SW LU8407	93	6753	103	3206	90	10300
MEAN				3168		11035
C.V.				9.32		11.1
LSD (0.05)				428		1776

2003 WF ALFALFA TEST ROSEBANK, MB
2005 FORAGE YIELDS (kg/ha)

CULTIVAR	% BEAVER	TOTAL 2005	CUT 1 JULY 15	CUT 2 AUG 22
3M49	92	9723	6875	2848
54V46	99	10454	7070	3686
AC Blue J	102	10780	7851	2929
Beaver	**100**	**10591**	**7617**	**2975**
DS 335	93	9854	6527	3414
DS 336	75	7923	6265	2698
DS 337	100	10553	7410	3142
Rambler	95	10067	7495	2572
Rangelander	99	10456	7892	2564
SW LU8407	91	9637	7024	2613
MEAN		10004	7203	2944
C.V.		8.49	10.16	15.25
LSD (0.05)		1245	1062	658

2003 WF ALFALFA TEST ROSEBANK, MB
2005 TEST SUMMARY (kg/ha)

CULTIVAR	TEST AVERAGE		2005		2004	
	% BEAVER	TOTAL	% BEAVER	TOTAL	% BEAVER	TOTAL
3M49	96	11637	92	9723	100	13550
54V46	98	11769	99	10454	97	13083
AC Blue J	101	12181	102	10780	100	13581
Beaver	**100**	**12067**	**100**	**10591**	**100**	**13542**
DS 335	94	11379	93	9854	95	12904
DS 336	87	10670	75	7923	99	13416
DS 337	102	12351	100	10553	104	14149
Rambler	97	11690	95	10067	98	13312
Rangelander	98	11700	99	10456	96	12943
SW LU8407	97	11787	91	9637	103	13936
MEAN				10004		13541
C.V.				8.49		6.50
LSD (0.05)				1245		1276

2003 WF ALFALFA TEST ST. PIERRE, MB
2005 FORAGE YIELDS (kg/ha)

CULTIVAR	% BEAVER	TOTAL 2005	CUT 1 JULY 19	CUT 2 SEPT 12
3M49	100	7146	3949	3197
54V46	108	7719	4028	3691
AC Blue J	108	7704	4432	3272
Beaver	**100**	**7135**	**4165**	**2970**
DS 335	115	8173	4360	3813
DS 336	97	6925	3422	3503
DS 337	105	7511	3829	3682
Rambler	97	6893	4006	2887
Rangelander	105	7483	4561	2922
SW LU8407	111	7888	4495	3393
MEAN		7458	4125	3333
C.V.		10.64	13.03	18.37
LSD (0.05)		1361	922	1051

2003 WF ALFALFA TEST ST.PIERRE, MB
2005 TEST SUMMARY (kg/ha)

CULTIVAR	TEST AVERAGE		2005		2004	
	% BEAVER	TOTAL	% BEAVER	TOTAL	% BEAVER	TOTAL
3M49	97	8904	100	7146	94	10662
54V46	99	9146	108	7719	94	10573
AC Blue J	107	9834	108	7704	106	11964
Beaver	**100**	**9214**	**100**	**7135**	**100**	**11292**
DS 335	99	9163	115	8173	90	10153
DS 336	92	8453	97	6925	88	9981
DS 337	102	9367	105	7511	99	11222
Rambler	93	8531	97	6893	90	10169
Rangelander	100	9238	105	7483	97	10992
SW LU8407	107	9853	111	7888	105	11817
MEAN				7458		10882
C.V.				10.64		13.2
LSD (0.05)				1361		2089

2004 WF ALFALFA TEST ARBORG, MB
2005 FORAGE YIELDS (kg/ha)

CULTIVAR	% BEAVER	TOTAL 2005	CUT 1 JUNE 24	CUT 2 AUG 04
AC Blue J	101	6944	2737	4208
Beaver	**100**	**6891**	**3016**	**3875**
CW 52044	103	7103	3007	4096
CW 83021	107	7348	2953	4396
RG-4G73	107	7355	3181	4174
MS Sunstra-422	111	7677	3221	4455
MS Sunstra-423	100	6913	3029	3883
P435	103	7113	3018	4095
Rambler	91	6239	2667	3571
Rangelander	94	6462	2624	3838
MEAN		7004	2945	4059
C.V.		6.47	9.57	9.01
LSD (0.05)		658	409	530

2004 WF ALFALFA TEST ROSEBANK, MB
2005 FORAGE YIELDS (kg/ha)

CULTIVAR	% BEAVER	TOTAL 2005	CUT 1 JULY 13	CUT 2 AUG 22
AC Blue J	100	12130	8319	3811
Beaver	**100**	**12110**	**8176**	**3934**
CW 52044	103	12436	8798	3592
CW 83021	107	13004	8949	4054
RG-4G73	103	12452	8538	3913
MS Sunstra-422	104	12559	8306	4253
MS Sunstra-423	111	13413	8979	4433
P435	99	12048	8248	3801
Rambler	85	10295	7418	2877
Rangelander	96	11613	8363	3251
MEAN		12206	8409.4	3792
C.V.		9.17	10.85	10.95
LSD (0.05)		1627	1326	602

2002 WF CICER MILKVETCH TEST ARBORG, MB
TEST SUMMARY (kg/ha)

CULTIVAR	TEST AVERAGE		2005*		2004		2003	
	% OXLEY	TOTAL	% OXLEY	TOTAL	% OXLEY	TOTAL	% OXLEY	TOTAL
OXLEY	100	2897		-	**100**	**3451**	**100**	**2342**
LRC 94-1	108	3135		-	102	3504	118	2765
				-				
MEAN				-		3478		2553
C.V.				-		8.9		14.8
LSD (0.05)				-		1087		1323

*** Please Note: The 2002 Wf Cicer Milkvetch test was damaged due to flooding in the 2005 season and therefore removed from testing. There will be no further yields from this test.**

2002 WF CICER MILKVETCH TEST ST. PIERRE, MB
2005 FORAGE YIELDS (kg/ha)

CULTIVAR	% OXLEY	TOTAL 2005	CUT 2* SEPT 12
OXLEY	**100**	**892**	**892**
LRC 94-1	91	810	810
MEAN		851	851
C.V.		7.97	7.97
LSD (0.05)		238	238

***Please Note: Spring flooding greatly delayed first cut creating a weed problem, therefore first cut yields were not recorded.**

2002 WF CICER MILKVETCH TEST ST.PIERRE, MB
TEST SUMMARY (kg/ha)

CULTIVAR	TEST AVERAGE		2005		2004		2003	
	% OXLEY	TOTAL	% OXLEY	TOTAL	% OXLEY	TOTAL	% OXLEY	TOTAL
OXLEY	**100**	**3363**	**100**	**892**	**100**	**5330**	**100**	**3868**
LRC 94-1	100	3357	91	810	99	5298	102	3962
MEAN				851		5314		3915
C.V.				7.97		4.8		10.8
LSD (0.05)				238		902		1487

2004 WF MEADOW BROMEGRASS TEST ARBORG, MB
2005 FORAGE YIELDS (kg/ha)

CULTIVAR	%FLEET	TOTAL 2005	CUT 1 JUNE 24
Fleet	**100**	**3704**	**3704**
S9465	112	4159	4159
SMB01	98	3628	3628
SMB02	109	4034	4034
MEAN		3881	3881
C.V.		11.48	11.48
LSD (0.05)		713	713

2004 WF MEADOW BROMEGRASS TEST ROSEBANK, MB
2005 FORAGE YIELDS (kg/ha)

CULTIVAR	%FLEET	TOTAL 2005	CUT 1 JULY 15
Fleet	**100**	**6504**	**6504**
S9465	123	7993	7993
SMB01	118	7673	7673
SMB02	133	8619	8619
MEAN		7697	7697
C.V.		11.3	11.3
LSD (0.05)		1456	1456

2004 WF MEADOW BROMEGRASS TEST ST.PIERRE, MB
2005 FORAGE YIELDS (kg/ha)

CULTIVAR	%FLEET	TOTAL 2005	CUT 1 JULY 19
Fleet	**100**	**2279**	**2279**
S9465	128	2913	2913
SMB01	98	2224	2224
SMB02	103	2352	2352
MEAN		2442	2442
C.V.		15.18	15.18
LSD (0.05)		593	593

2004 WF MEADOW FESCUE TEST ARBORG, MB
2005 FORAGE YIELDS (kg/ha)

CULTIVAR	% MIMER	TOTAL 2005	CUT 1 JUNE 24
Mimer	**100**	**2344**	**2344**
Preval	97	2272	2272
MEAN		2308	2308
C.V.		11.55	11.55
LSD (0.05)		600	600

2004 WF MEADOW FESCUE TEST ROSEBANK, MB
2005 FORAGE YIELDS (kg/ha)

CULTIVAR	% MIMER	TOTAL 2005	CUT 1 JULY 15
Mimer	**100**	**5519**	**5519**
Preval	122	6741	6741
MEAN		6130	6130
C.V.		1172	1172
LSD (0.05)		8.50	8.50

2004 WF MEADOW FESCUE TEST ST.PIERRE, MB
2005 FORAGE YIELDS (kg/ha)

CULTIVAR	% MIMER	TOTAL 2005	CUT 1 JULY 19
Mimer	**100**	**1726**	**1726**
Preval	93	1606	1606
MEAN		1666	1666
C.V.		19.58	19.58
LSD (0.05)		734	734

2001 WF TALL FESCUE TEST ARBORG, MB
2005 FORAGE YIELDS (kg/ha)

CULTIVAR	% COURTNEY	TOTAL 2004	CUT 1 JUNE 21	CUT 2 SEPT 14
COURTNEY	**100**	**4328**	**2656**	**1672**
MAXIMIZE	101	4389	2587	1802
MEAN		4359	2622	1737
C.V.		12.90	13.03	30.55
LSD (0.05)		1265	769	1194

2001 WF TALL FESCUE TEST ARBORG, MB
TEST SUMMARY (kg/ha)

CULTIVAR	TEST AVERAGE		2005		2004		2002	
	% Courtney	TOTAL	% Courtney	TOTAL	% Courtney	TOTAL	% Courtney	TOTAL
COURTNEY	**100**	**6496**	**100**	**4328**	**100**	**4610**	**100**	**10551**
MAXIMIZE	99	6455	101	4389	104	4789	97	10186
MEAN				4359		4699		10368
C.V.				12.90		9.1		8.3
LSD (0.05)				1265		957		1012

2001 WF TALL FESCUE TEST ST. PIERRE, MB
2005 FORAGE YIELDS (kg/ha)

CULTIVAR	% COURTNEY	TOTAL 2005*	CUT 1 JULY 19
COURTNEY	**100**	**856**	**844**
MAXIMIZE	99	844	856
MEAN		850	850
C.V.		32.78	32.78
LSD (0.05)		627	627

*** NOTE - Please use this data with caution, as a high CV is indicated for this data.**

2001 WF TALL FESCUE TEST ST. PIERRE, MB
TEST SUMMARY (kg/ha)

CULTIVAR	TEST AVERAGE		2005*		2004*		2002	
	% Courtney	TOTAL	% Courtney	TOTAL	% Courtney	TOTAL	% Courtney	TOTAL
COURTNEY	**100**	**1229**	**100**	**856**	**100**	**1317**	**100**	**1516**
MAXIMIZE	99	1213	99	844	99	1303	99	1493
MEAN				850		1310		1516
C.V.				32.78		25.6		18.8
LSD (0.05)				627		755		637

*** NOTE - Please use this data with caution, as a high CV is indicated for this data.**

2003 WF TALL FESCUE TEST ARBORG, MB
2005 FORAGE YIELDS (kg/ha)

CULTIVAR	% COURTNEY	TOTAL 2005	CUT 1 JUNE 21	CUT 2 SEPT 14
COURTNEY	**100**	**8655**	**5886**	**2769**
TF 10111	51	4447	2787	1660
UMTF	96	8330	5482	2848
MEAN		7208	4718	2492
C.V.		5.25	8.18	2.14
LSD (0.05)		688	668	192

2003 WF TALL FESCUE TEST ARBORG, MB
2005 TEST SUMMARY (kg/ha)

CULTIVAR	TEST AVERAGE		2005		2004	
	% Courtney	TOTAL	% Courtney	TOTAL	% Courtney	TOTAL
COURTNEY	**100**	**10610**	**100**	**8655**	**100**	**12564**
TF 10111	60	6379	51	4447	66	8311
UMTF	100	10633	96	8330	103	12935
MEAN				7208		11270
C.V.				5.25		11.9
LSD (0.05)				688		2310

2003 WF TALL FESCUE TEST ROSEBANK, MB
2005 FORAGE YIELDS (kg/ha)

CULTIVAR	% COURTNEY	TOTAL 2005	CUT 2 JULY 08
COURTNEY	**100**	**6484**	**6484**
TF 10111	88	5701	5701
UMTF	146	9465	9465
MEAN		7217	7217
C.V.		14.93	14.93
LSD (0.05)		1959	1959

2003 WF TALL FESCUE TEST ROSEBANK, MB
2005 TEST SUMMARY (kg/ha)

CULTIVAR	TEST AVERAGE		2005		2004	
	% Courtney	TOTAL	% Courtney	TOTAL	% Courtney	TOTAL
COURTNEY	**100**	**8448**	**100**	**6484**	**100**	**10411**
TF 10111	69	5795	88	5701	57	5888
UMTF	110	9305	146	9465	88	9144
MEAN				7217		10411
C.V.				14.93		9.50
LSD (0.05)				1959		1393

2003 WF TALL FESCUE TEST ST. PIERRE, MB
2005 FORAGE YIELDS (kg/ha)

CULTIVAR	% COURTNEY	TOTAL 2005	CUT 1 JULY 19	CUT 2 SEPT 12
COURTNEY	**100**	**2754**	**1494**	**1260**
TF 10111	54	1489	465	1024
UMTF	87	2402	1323	1079
MEAN		2206	1094	1121
C.V.		12.63	20.72	22.05
LSD (0.05)		506	412	428

2003 WF TALL FESCUE TEST ST.PIERRE, MB
2005 TEST SUMMARY (kg/ha)

CULTIVAR	TEST AVERAGE		2005		2004	
	% Courtney	TOTAL	% Courtney	TOTAL	% Courtney	TOTAL
COURTNEY	**100**	**3179**	**100**	**2754**	**100**	**3603**
TF 10111	65	2057	54	1489	73	2625
UMTF	102	3230	87	2402	113	4055
MEAN				2206		3428
C.V.				12.63		14.6
LSD (0.05)				506		866

2002 WF ORCHARDGRASS TEST ARBORG, MB
2005 FORAGE YIELDS (kg/ha)

CULTIVAR	% KAY	TOTAL 2005	CUT 1 JULY 07	CUT 2 SEPT 14
AC KILLARNEY	104	5055	2829	2226
KAY	**100**	**4877**	**2738**	**2139**
SOGO1	104	5087	2743	2344
MEAN		5007	2770	2236
C.V.		13.09	18.82	12.68
LSD (0.05)		1486	1182	643

2002 WF ORCHARDGRASS TEST ARBORG, MB
TEST SUMMARY (kg/ha)

CULTIVAR	TEST AVERAGE		2005		2004		2003	
	% KAY	TOTAL	% KAY	TOTAL	% KAY	TOTAL	% KAY	TOTAL
AC KILLARNEY	104	4076	104	5055	110	5165	91	2008
KAY	**100**	**3925**	**100**	**4877**	**100**	**4685**	**100**	**2213**
SOGO1	108	4240	104	5087	109	5094	115	2539
MEAN				5007		4981		2254
C.V.				13.09		13.0		12.8
LSD (0.05)				1486		1122		498

2004 WF ORCHARDGRASS TEST ARBORG, MB
2005 FORAGE YIELDS (kg/ha)

CULTIVAR	% KAY	TOTAL 2005	CUT 1 JULY 12	CUT 2 SEPT 14
2000 ABC	110	4541	3067	1474
2000 DEF	87	3571	1956	1615
Early Arctic	114	4693	3137	1556
Kay	**100**	**4121**	**2574**	**1547**
MEAN		4218	2683	1548
C.V.		6.83	7.78	13.96
LSD (0.05)		470	341	346

2004 WF ORCHARDGRASS TEST ROSEBANK, MB
2005 FORAGE YIELDS (kg/ha)

CULTIVAR	% KAY	TOTAL 2005	CUT 1 JULY 14	CUT 2 OCT 26
2000 ABC	124	15254	10189	5065
2000 DEF	90	11053	6376	4677
Early Arctic	115	14184	9137	5048
Kay	**100**	**12348**	**7684**	**4664**
MEAN		13210	8346	4863
C.V.		5.32	12.89	16.78
LSD (0.05)		1125	1720	1306

2004 WF ORCHARDGRASS TEST ST.PIERRE, MB
2005 FORAGE YIELDS (kg/ha)

CULTIVAR	% KAY	TOTAL 2005	CUT 1 JULY 19
2000 ABC	99	1633	1633
2000 DEF	108	1783	1783
Early Arctic	87	1431	1431
Kay	**100**	**1647**	**1647**
MEAN		1623	1623
C.V.		15.24	15.24
LSD (0.05)		396	396

2001 WF TIMOTHY FORAGE TEST ARBORG, MB
2005 FORAGE YIELDS (kg/ha)

CULTIVAR	% CLIMAX	TOTAL 2005	CUT 1 JUNE 21
BARNEE	58	1130	1130
BARTIMO	77	1494	1494
CLIMAX	**100**	**1953**	**1953**
DOLINA	100	1951	1951
EXPRESS	123	2398	2398
LPHL 458	140	2736	2736
NIKLAS	78	1527	1527
TUNDRA	135	2646	2646
MEAN		1979	1979
C.V.		22.69	22.69
LSD (0.05)		661	661

2001 WF TIMOTHY FORAGE TEST ARBORG, MB
TEST SUMMARY (kg/ha)

CULTIVAR	TEST AVERAGE		2005*		2004		2003*	
	% Climax	TOTAL	% Climax	TOTAL	% Climax	TOTAL	% Climax	TOTAL
Barnee	72	1679	58	1130	77	2693	79	1214
Bartimo	90	2080	77	1494	92	3210	100	1535
Climax	**100**	**2322**	**100**	**1953**	**100**	**3481**	**100**	**1531**
Dolina	90	2095	100	1951	89	3086	81	1247
Express	113	2633	123	2398	108	3757	114	1743
LPHL458	112	2606	140	2736	104	3632	95	1451
Niklas	86	2003	78	1527	93	3250	80	1231
Tundra	100	2321	135	2646	85	2972	88	1345
MEAN				1979		3260		1412
C.V.				22.69		13.0		21.8
LSD (0.05)				661		623		455

*** NOTE - Please use this data with caution, as a high CV is indicated for this data.**

2001 WF TIMOTHY FORAGE TEST ST. PIERRE, MB
2005 FORAGE YIELDS (kg/ha)

CULTIVAR	% CLIMAX	TOTAL 2005	CUT 1 JULY 19
BARNEE	89	1767	1767
BARTIMO	99	1982	1982
CLIMAX	**100**	**1992**	**1992**
DOLINA	87	1728	1728
EXPRESS	85	1688	1688
LPHL 458	93	1857	1857
NIKLAS	91	1808	1808
TUNDRA	102	2028	2028
MEAN		1856	1856
C.V.		15.76	15.76
LSD (0.05)		430	430

2001 WF TIMOTHY FORAGE TEST ST.PIERRE, MB
TEST SUMMARY (kg/ha)

CULTIVAR	TEST AVERAGE		2005		2004	
	% CLIMAX	TOTAL	% CLIMAX	TOTAL	% CLIMAX	TOTAL
BARNEE	98	3650	89	1767	102	5533
BARTIMO	90	3349	99	1982	87	4715
CLIMAX	**100**	**3719**	**100**	**1992**	**100**	**5446**
DOLINA	92	3435	87	1728	94	5142
EXPRESS	96	3571	85	1688	100	5454
LPHL 458	91	3368	93	1857	90	4878
NIKLAS	93	3453	91	1808	94	5098
TUNDRA	96	3585	102	2028	94	5142
MEAN				1856		5176
C.V.				15.76		19.1
LSD (0.05)				430		1455

2002 WF TIMOTHY FORAGE TEST ARBORG, MB
2005 FORAGE YIELDS (kg/ha)

CULTIVAR	% CLIMAX	TOTAL 2004	CUT 1 JUNE 21
45-214	100	1003	1003
CHARLTON	86	865	865
CLIMAX	**100**	**1006**	**1006**
JONATHON	127	1278	1278
NS2TY	107	1078	1078
MEAN		1046	1046
C.V.		18.73	18.73
LSD (0.05)		302	302

2002 WF TIMOTHY FORAGE TEST ARBORG, MB
TEST SUMMARY (kg/ha)

CULTIVAR	TEST AVERAGE		2005		2004		2003	
	% climax	TOTAL	% climax	TOTAL	% climax	TOTAL	% climax	TOTAL
45-214	97	2162	100	1003	98	3872	92	1610
CHARLTON	93	2083	86	865	91	3604	101	1781
CLIMAX	**100**	**2236**	**100**	**1006**	**100**	**3942**	**100**	**1760**
JONATHON	113	2519	127	1278	108	4273	114	2006
NS2TY	90	2011	107	1078	87	3432	87	1524
MEAN				1046		3824		1736
C.V.				18.73		13.1		12.7
LSD (0.05)				302		774		344

2002 WF TIMOTHY FORAGE TEST ST. PIERRE, MB
2005 FORAGE YIELDS (kg/ha)

CULTIVAR	% CLIMAX	TOTAL 2005	CUT 1 JULY 19
45-214	104	1698	1698
CHARLTON	97	1573	1573
CLIMAX	**100**	**1626**	**1626**
JONATHON	93	1518	1518
NS2TY	97	1573	1573
MEAN		1597	1597
C.V.		14.52	14.52
LSD (0.05)		357	357

2002 WF TIMOTHY FORAGE TEST ST.PIERRE, MB
TEST SUMMARY (kg/ha)

CULTIVAR	TEST AVERAGE		2005		2004	
	% CLIMAX	TOTAL	% CLIMAX	TOTAL	% CLIMAX	TOTAL
45-214	109	3452	104	1698	110	5206
CHARLTON	99	3137	97	1573	99	4700
CLIMAX	**100**	**3177**	**100**	**1626**	**100**	**4728**
JONATHON	99	3144	93	1518	101	4769
NS2TY	93	2961	97	1573	92	4348
MEAN				1597		4750
C.V.				14.52		19.8
LSD (0.05)				357		774

2004 WF TIMOTHY FORAGE TEST ARBORG, MB
2005 FORAGE YIELDS (kg/ha)

CULTIVAR	% CLIMAX	TOTAL 2005	CUT 1 JUNE 24	CUT 2 SEPT 14
CLIMAX	**100**	**5450**	**3546**	**1904**
SW TT2527	93	5078	3202	1876
MEAN		5264	3374	1890
C.V.		8.76	6.42	19.01
LSD (0.05)		1038	487	809

2004 WF TIMOTHY FORAGE TEST ROSEBANK, MB
2005 FORAGE YIELDS (kg/ha)

CULTIVAR	% CLIMAX	TOTAL 2005	CUT 1 JULY 1	CUT 2 OCT 26
CLIMAX	**100**	**14539**	**7813**	**6725**
SW TT2527	71	10323	7051	3271
MEAN		12431	7432	4998
C.V.		4.21	4.58	16.23
LSD (0.05)		1176	766	1825

2004 WF TIMOTHY FORAGE TEST ST.PIERRE, MB
2005 FORAGE YIELDS (kg/ha)

CULTIVAR	% CLIMAX	TOTAL 2005	CUT 1 JULY 19
CLIMAX	**100**	**2526**	**2526**
SW TT2527	89	2241	2241
MEAN		2383	2383
C.V.		17.73	17.73
LSD (0.05)		951	951

2005 WF ITALIAN RYEGRASS FORAGE TEST ROSEBANK, MB
2005 FORAGE YIELDS (kg/ha)

CULTIVAR	% MARIS LEDGER	TOTAL 2005	CUT 1 JULY 15	CUT 2 AUG 16	CUT 3 SEPT 22
MARIS LEDGER	**100**	**12903**	**2692**	**4200**	**6010**
NS04-101	89	12684	2226	4720	5738
MEAN		12794	2459	4460	5874
C.V.		6.59	18.09	9.33	4.99
LSD (0.05)		1896	1001	937	660

WF ITALIAN RYEGRASS FORAGE TEST ROSEBANK, MB
TEST SUMMARY (kg/ha)

CULTIVAR	TEST AVERAGE		2005		2004	
	% MARIS LEDGER	TOTAL	% MARIS LEDGER	TOTAL	% MARIS LEDGER	TOTAL
MARIS LEDGER	**100**	**12825**	**100**	**12903**	**100**	**12747**
NS04-101	93	11886	89	12684	88	11087
MEAN				12794		12670
C.V.				6.59		10.90
LSD (0.05)				1896		3942

2005 WF WESTERWOLD RYEGRASS FORAGE TEST ROSEBANK, MB
2005 FORAGE YIELDS (kg/ha)

CULTIVAR	% AUBADE	TOTAL 2005	CUT 1 JULY 15	CUT 2 AUG 16	CUT 3 SEPT 22
AUBADE	**100**	**12965**	**3268**	**4558**	**5140**
ELUNARIA	93	11994	2986	4141	4867
MEAN		12480	3127	4349	5003
C.V.		4.26	11.95	12.85	10.26
LSD (0.05)		1197	841	1258	1155

WF WESTERWOLD RYEGRASS FORAGE TEST ROSEBANK, MB
TEST SUMMARY (kg/ha)

CULTIVAR	TEST AVERAGE		2005		2004	
	% AUBADE	TOTAL	% AUBADE	TOTAL	% AUBADE	TOTAL
AUBADE	**100**	**12805**	**100**	**12965**	**100**	**12645**
NS04-101	100	12744	93	11994	107	13493
MEAN				12480		12645
C.V.				4.26		1.90
LSD (0.05)				1197		566

2005 ANNUAL CEREAL FORAGE TESTS
2005 FORAGE BARLEY YIELDS (kg/ha)

CULTIVAR	Yield at Test Sites % of Check											
	TEST MEAN		ARBORG*		ROSEBANK		PCDF*		THUNDER BAY*		WADO*	
BARLEY	% Virden	Total	% Virden	Total	% Virden	Total	% Virden	Total	% Virden	Total	% Virden	Total
AC Ranger	78	7476	95	7588	122	7064	110	8601	87	4505	45	9623
AC Rosser	90	8636	86	6880	97	5609	122	9529	99	5140	75	16023
CDC Cowboy	76	7333	98	7863	121	7013	97	7568	133	6878	35	7344
CDC Yorkton	77	7395	101	8106	100	5830	93	7220	104	5390	49	10427
Drummond	89	8557	75	5956	99	5742	95	7402	87	4495	90	19190
Lacey 6 Row	88	8471	80	6363	99	5731	84	6593	115	5933	83	17735
Stander	78	7516	77	6186	82	4780	72	5635	103	5327	74	15654
Stockford	86	8214	96	7700	97	5651	115	9011	91	4695	66	14013
Virden	**100**	**9606**	**100**	**7988**	**100**	**5811**	**100**	**7804**	**100**	**5180**	**100**	**21249**
MEAN				7181		5915		7707		5283		14584
C.V.				18.9		11.3		21.6		17.2		24.3
LSD (0.05)				NS		1156		NS		NS		6128

*** NOTE - Please use this data with caution, as a high CV is indicated for this data.**

2005 ANNUAL CEREAL FORAGE TESTS
2005 FORAGE OAT YIELDS (kg/ha)

CULTIVAR	Yield at Test Sites % of Check											
	TEST MEAN		ARBORG		ROSEBANK*		PCDF*		THUNDER BAY*		WADO	
OAT	% Virden	Total	% Virden	Total	% Virden	Total	% Virden	Total	% Virden	Total	% Virden	Total
Murphy	134	12874	104	6890	83	8298	114	21911	133	6638	119	20631
Triple Crown	159	15303	106	7065	96	9631	116	22162	106	5296	187	32363
AC Furlong	104	9986	93	6137	75	7507	114	21738	82	4105	60	10445
CDC Baler	151	14464	119	7867	68	6825	108	20745	89	4429	188	32455
Mustang	121	11610	100	6634	100	9993	100	19143	100	4982	100	17299
Virden	**100**	**9606**	**100**	**7988**	**100**	**5811**	**100**	**7804**	**100**	**5180**	**100**	**21249**
MEAN				6919		8451		21140		5090		22638
C.V.				10.4		26.9		18.6		14.7		8.9
LSD (0.05)				NS		NS		NS		1407		3774

*** NOTE - Please use this data with caution, as a high CV is indicated for this data.**

ANNUAL FORAGE TEST SUMMARY 1997-2005

CULTIVAR	SPECIES	% VIRDEN	NO. SITE YEARS
23AC ALTA	TRITICALE	87	11
AC ASSINIBOIA	OAT	96	12
AC BACON	HULLESS BARLEY	96	11
AC CERTA	TRITICALE	84	11
AC HAWKEYE	HULLESS BARLEY	96	14
AC LACOMBE	BARLEY	99	14
AC MEDALLION	OAT	97	11
AC PINNACLE	OAT	104	11
BANJO	TRITICALE	87	12
BZ593152	BARLEY	99	12
BZ593159	BARLEY	102	13
CDC FREEDOM	HULLESS BARLEY	92	11
CDC PACER	OAT	102	11
CDC SISLER	BARLEY	96	11
CDC YORKTON	BARLEY	102	12
DUMONT	OAT	98	12
MERIT	BARLEY	101	12
ROBUST	BARLEY	96	12
SANDRO	TRITICALE	85	11
STANDSWELL	TRITICALE	88	13
SOMMERVILLE	BARLEY	95	12
TRAPPER	PEA	90	3
TRIPLE CROWN	OAT	109	11
VICTORIA	PEA	30	2
VIRDEN (AVERAGE YIELD 6968 KG/HA)	**BARLEY**	**100**	**16**
WESTFORD	BARLEY	102	12
WHERO	PEA	53	3
2 BU 4010/.5 BU AC LACOMBE	PEA/BARLEY	108	4
2 BU 4010/.5 BU AC ASSINIBOIA	PEA/OAT	96	4
2 BU 4010/.5 BU SANDRO	PEA/TRITICALE	99	4
.5 BU 4010/2BU AC LACOMBE	PEA/BARLEY	96	4
.5 BU 4010/2 BU AC ASSINIBOIA	PEA/OAT	108	4
.5 BU 4010/2 BU SANDRO	PEA/TRITICALE	96	4
1 BU 4010/1 BU AC LACOMBE	PEA/BARLEY	97	4
1 BU 4010/1 BU AC ASSINIBOIA	PEA/OAT	103	4
1 BU 4010/1 BU SANDRO	PEA/TRITICALE	96	4
40-10	PEA	63	5

WEATHER DATA

(Courtesy of Manitoba Agriculture, Food and Rural Initiatives)

Monthly Number of Growing Degree Days: (Above 5 Degrees Celsius)

MONTH	Arborg 2005	Arborg 2004	St. Pierre 2005	St. Pierre 2004
APRIL		83	-	-37
MAY		50	-	87
JUNE	183	256	213	284
JULY	438	391	469	408
AUGUST	426	280	407	286
SEPTEMBER	256	247	289	265
OCTOBER	31	-	73	-

Forage plants have a base temperature below which growth and development will not occur. This base temperature is 5.0 degrees Celsius. Calculating the growing degree-days will demonstrate the amount of daily heat energy useful to the crop. Heat accumulated each day is determined by averaging the daily minimum and maximum temperatures. The base temperature is subtracted from this average; this value represents the daily heat useful to the crop. Results greater than zero are then added to give the weekly GDD accumulated.

Monthly Precipitation: (mm)

MONTH	Arborg 2005	Arborg 2004	St. Pierre 2005	St. Pierre 2004
APRIL	-	15	-	28
MAY	-	85	-	153
JUNE	70	49	131	90
JULY	77	50	72	85
AUGUST	56	67	29	140
SEPTEMBER	24	65	6	89
OCTOBER	17	-	8	-