Forage Introductions

Northern Research Group Canada Agriculture Research Branch Research Station, Beaverlodge, AB

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FORAGE INTRODUCTIONS

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FOREWORD

This is our ninth report on the performance of introduced cultivars of grasses and legumes seeded in single plots at Beaverlodge. All data collected in the past 10 years are included. A supplementary report, entitled "Forage Cultivar Trials - Publication 79-16B", presents data from replicated trials throughout northern Alberta.

Data are obtained from single plots comprising of 5 rows, 30.5 cm (1 foot) apart and 6.1 metres (20 feet) long. Two rows are harvested for herbage and the remaining 3 for seed. Each cultivar is seeded in 3 successive years and each seeding is retained for 3 harvest years. Weeds are controlled by both mechanical and chemical means. Plots are fertilized annually. Irrigation is employed only in the year of seeding if required to ensure complete stands. While many observations are recorded, emphasis is placed on winter hardiness and seed yield.

We gratefully acknowledge assistance with data processing provided by Mr. Leo Modderman, Systems and Consulting Division, Finance and Administration Branch, Agriculture Canada, Ottawa.

Key to Symbols

* following cultivar name indicates standards (std) for comparison; % of STD - presents yield of introduction as a percentage of the standard (*) for that species but only for those years when both were on trial: Rating 1 to 9 (9 best), - (not rated); cm - centimeters (1 inch = 2.54 cm); kg/ha - kilograms per hectare.

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	- Velvet	3	Oatgrass	- Tall	13	- Russian	21
Bluegrass	- Canada	3	04092400	- Yellow	14		
	- Kentucky	3	- <i>.</i> -		7.4		
	- Rough	5	Orchardgras	S	14	LEGUMES	
	- Upland	6	Redtop	- (Agrostis alba L.)	16	Alfalfa	23
Bromegrass		6		- (A. gigantea)	16	Clover - Alsike	25
Dogstail, Crested		6		- (A. stolonifera)	16	- Arrowleaf	26
Fescue	- Chewings	6	Reed Canary	grass	16	- Red	26
escue	- Creeping Red	7	Timothy - ()	P. bertolonii,P.nodosu	m)16	- White	29
	- Hair	9	-	P. pratense)	17	Sainfoin	31
	- Hard	9	Wheatgrass	- Beardless	20	Trefoil	32
	- Meadow	10	-	(Agropyron cristatum)	20		
	- Shade	12	0200000	(A. desertorum)	20	Vetch - Crown	32
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Foxtail	- Creeping	13	- Slender		21		
	- Meadow	13	- Streamb	ank	21		

	GRASSES				SEED	YIELD			HERI	BAGE (D		
SPECIES	CULTIVAR	ORIGIN	DATA YRS	H A N R E D S I S -	DATE RIPE DA/MO	КG/ НА	% OF STD	НТСМ	H A N R E D S I S -	TONS / HA	% OF STD	COMMENTS
BENTGRASS	, COLONIAL (AGROSTIS TENUIS)											
	ASTORIA	U.S.A.	3	8	30/07	105	95	46	8	.6	85	an mini se se se se se
	BORAL	SWEDEN	9	7	05/08	181	241	43	7	.5	125	
	EKO EXETER *	SWEDEN U.S.A.	3 16	9 7	30/07 05/08	76 84	6 9 100	51 36	9	.4	57 100	
	GOGINAN	UNITED KINGDOM	10	4	*	04	*	30	4	.0	100	
en het in 11. De in de de de la composition (HIGHLAND	U.S.A.	3	8	02/08	20	18	41	8	.3	42	
1993년 1987년	HOLFIOR	NETHERLANDS	3.	8	30/07	90	82	43	8	.7	100	and the second secon
	LIGRETTE	GERMANY	1	7	*	0		*	7	.0		
*******	ORBICA	NETHERLANDS	7	6	07/08	69	61	30	6	.3	75	
e geografie george geo	PARYS MOUNTAIN	UNITED KINGDOM		5	*	0	*	*	5	.0	*	
	SABOVAL TRACEMO	UNITED KINGDOM NETHERLANDS	7	8 8	02/08	103 132	106 120	34 48	8	• • 4	100	
	UTVERK	ICELAND	9	7	03/08	114	120	37	8	.7	100	
	VARMLANDSK	SWEDEN	3	5	14/08	133	425	41	5	.4	133	
BENTGRASS	, CREEPING (AGROSTIS PALUSTR	IS)		otad use ok 1910 – Jan	a suar e factor ani	en generales Transition			14 년 원 -	n an an tha an an an An gu aig an	an an an taon an taon 1 An taon an taon 1 An taon an taon 1	
Her di table e si da	PENNCROSS *	U.S.A.	14	6	04/08	44	100	40	6	.3	100	
BENTGRASS	, VELVET (AGROSTIS CANINA)		1.0517-00-05	n in stand station		- Cassaria				n Ne deçekî ji		
DENTGRADS		and a state of the state			altar alaya	1,1109003	le mengaaa e	0.048030	le en en	ing the perform	. so se no s	
	ACA 61 *	GERMANY	3	5	01/08	25	100	40	5	.0	*	
	RUSTA	NETHERLANDS	3	4	01/08	15	60	30	4	.0	i laga 🗶 📩	
BLUEGRASS	, CANADA (POA COMPRESSA)									n in the second second	n de la composición d La composición de la c	ante di tra de la defe
	CANON *		12	8	05/08	271	100	EO	0		100	
endere werden deler		CONADA	12	O	03/08		100	52	8	•8	100	
BLUEGRASS	, KENTUCKY (POA PRATENSIS)	ya wa sakanya		것은관	kendel på		a population de			tegile d	-864-bga	
	ADELPHI	U.S.A.	6	8	26/07	71	53	46	8	.8	66	요구한가도 가라니는 승리나다.
	ALTRA Cl	U.S.A.	2	9	26/07	95	76	40	9	1.3	120	
	AQUILA	NETHERLANDS	6	8	23/07	162	120	43	8	1.0	75	
	ARENA	NETHERLANDS	3	9	23/07	171	133	64	9	1.6	136	
	ARINA DASAS	DENMARK	6	8	21/07	268	200	68	9	1.5	116	air a chair a chu
	ARISTA	NETHERLANDS	3	9	19/07	528	216	41	9	.7	58	

	GRASSES				SEED	YIELI)		HERE	AGE (D	4) YIELD	
SPECIES	CULTIVAR	ORIGIN	DATA YRS	H A N R E D S I S -	DATE RIPE DA/MO	KG/ HA	% OF STD	HT CM	H A N R E D S I S -	TONS / HA	% OF STD	COMMENTS
LUEGRASS	S, KENTUCKY (POA PRATENS)	IS)										
	ATLAS	SWEDEN	3	9	16/07	293	120	81	9	1.7	133	and the state of the state of the
	BARFORTO	NETHERLANDS	3	9	23/07	165	128	52	9	1.4	118	e de la companya de En la companya de la c
	BARKENTA	NETHERLANDS	3	8	26/07	255	104	48	8	.7	58	the state of the second s
	BARMEZZO	NETHERLANDS	3	9	23/07	103	80	41	9	.8	72	and the second
	BARON	NETHERLANDS	3	9	24/07	596	244	38	9	.8	66	
	BARONES	NETHERLANDS	6	8	24/07	173	129	49	8	.8	66	lines - Hubblin - Astrikus - A
황수 산장 나라	BARONIE	NETHERLANDS	6	8	26/07	61	45	41	8	.8	66	S. S. Maisser, and S. S.
defedence in the attraction of the	BARTENSE	NETHERLANDS	3	9	23/07	219	170	53	9	1.3	109	
병원 승규가 가 같은	BARTISSIMO	NETHERLANDS	3	9	23/07	99	77	45	8	.6	54	
ever per promotione en la	BIRKA	SWEDEN	6	8	26/07	114	85	50	8	1.2	91	nin in staat in staarde staat is staa
	BRISTOL	U.S.A.	3	9	23/07	133	103	47	9	.6	54	
r terras activas a consta	CAMPINA	NETHERLANDS	3	9	23/07	187	145	57	9	.6	54	
여기 그렇게 친구들에서	CAMPUS	GERMANY	3	8	21/07	213	87	46	8	.6	50	전문 소설을 즐고 있다.
hundernen enwend	CAPTAN	NETHERLANDS	3	9	1 8/ 07	408	167	60	9	1.6	125	
	CONTINENTAL	NETHERLANDS	6	8	26/07	201	150	43	8	1.0	75	
na do independence	COUGAR	U.S.A.	2	9	30/07	169	136	29	9	.8	80	
8000 (NAR 1997)	DELFT	NETHERLANDS	3	8	17/07	430	176	51	8	.8	66	
na statut satu	DELTA	CANADA	3	9	20/07	116	90	70	9	1.0	81	
	DRYLAND	CANADA	2	9	26/07	35	28	44	9	1.0	90	
addiau 1996 - Said	E.F.	DENMARK	3	9	18/07	211	86	60	9	1.5	116	
	EAGLE	NETHERLANDS	12	8	22/07	99	54	40	8	.7	63	
	ENMUNDI	NETHERLANDS	3	9	23/07	132	102	45	9	.8	72	
- 32년 11일 - 2013	ENOBLE ENPRIMA	NETHERLANDS	3	8	22/07	122	94	54	8	1.0	81	
ndelen Stille die se	ENFRIMA	NETHERLANDS	3	9	20/07	323	251	53	9	1.0	81	
an an an san far	ENSEMA ENTENSA	NETHERLANDS	6	8	20/07	281	209	67	8	1.6	125	신 옷 집안 가지 않는 것
terre Bener 200	FYLKING	NETHERLANDS	6	7	24/07	47	35	55	7	.7	58	
usa di separa da se	GARDI	SWEDEN	2	9	29/07	48	38	30	9	.7	70	
	CEPONTMO	NETHERLANDS	3	9	23/07	156	121	36	9	.6	54	
(Produce) ha alfebra	GOLF (CHERI)	NETHERLANDS	3	9	20/07		180	53	9	1.0	81	
		SWEDEN	3	9	21/07	486	199	38	9	.7	58	
	HOLT KAHNSTEIN	NORWAY	3	9	20/07	66	51	59	9	1.2	100	. Hais inter se
	KARCAGI	GERMANY	3)	17/07	583	238	60	9	1.0	75	. The second second second second second
	KENBLUE		9	8	21/07	127	62	63	8	• 8	72	
	KIMONO	U.S.A. NETHERLANDS	12	8	19/07	290	157	69	8	1.3	109	
an an an an Alaistan an Anna a Anna an Anna an	MERION		3	8	23/07	120	93	40	8	.8	72	
		U.S.A.	5	8	26/07	148	81	46	8	.6	75	

PECIES	CULTIVAR	ORIGIN	DATA YRS	H AN RE DS IS -	DATE RIPE DA/MO	KG/ HA	% OF STD	HT CM	H AN RE DS IS -	tons / ha	% OF STD	COMMENTS
LUEGRASS	, KENTUCKY (POA PRATENSIS							and the second second				
	MERVEL	BELGIUM	3	9	17/07	367	150	61	9	1.0	75	e de la construcción de la constru La construcción de la construcción d
	MONOPOLY	NETHERLANDS	9	8	27/07	256	126	55	8	.7	63	ten vitetta en electro en
	MOSA	NETHERLANDS	3	9	23/07	120	93	48	9	•6	54	y fan de fan yn de fan de
lin en trenste strandste en	NEWPORT	U.S.A.	3	9	23/07	266	206	57	9	.6	54	n an an taise that the sec
ere fistruciu	NORMA OTOFTE	DENMARK	ୁ ୁ	9	17/07	564	231	60	9	1.4	108	
eneraan programen konstaar	NUGGET	U.S.A.	2	9	30/07 22/07	163	131	26	9	.7	70 75	ou ser more a sustaine real we bri
	OLYMPRISP	GERMANY	3		23/07	432	177		1	1.0		i to shuka ma niya s
nan, har bes and to Musick.	ONAR	NETHERLANDS	3	8		88	68	55	8	.6	54	yrgen fy'r yraego ffalaeth
t de la catalité	OTOFTE	DENMARK	3	9	17/07	469	192	61	9	1.1	83	이 있었다. 그 것 같아요? 그는 그는 것이 것이 같아요?
	PARADE	NETHERLANDS	6	8	26/07	129	96	51	8	1.0	75	
학 전 경제한 영화	PARK *	U.S.A.	15	8	21/07	169	100	59	8	1.2	100	andre andere andere a
	PION	NETHERLANDS	3	9	23/07	51	40	59	9	1.1	90	
la prateción de la porteción Construction de la porteción	PRATO	NETHERLANDS	2	9	29/07	202	163	31	9	.8	80	an a
	PRIMO	SWEDEN	3	9	21/07	299	122	53	9	1.1	83	a la provincia de la terra de la recentra
	SK-46 (ESKA)	GERMANY	3	9	22/07	162	143	49	9	1.3	109	고부고 수소 전 관계율
	SOBRA	SWEDEN	3	9	20/07	384	157	55	9	1.4	108	. A Maria - Anna - Anna - Anna - An
같은 것 않는 것	SOMA HUNSBALLE	DENMARK	ંડ	9	17/07	582	238	63	9	1.3	100	일 승규는 한 것 같아요.
	SPATHS HOHENHEIMER	GERMANY	3	8	23/07	385	157	50	8	.6	50	
enter de la la constituir. Enter de la constituir de	STENSBALLE	DENMARK	3	9	17/07	402	164	61	9	1.3	100	
	STOLA 310	GERMANY	12	8	23/07	138	75	63	8	1.2	100	
	SVING	SWEDEN	6	8	23/07	436	233	48	8	1.1	90	~ 2011년 1993년
	SYDSPORT	SWEDEN	3	8	20/07	355	145	61	8	.8	66	a tatita ata sa tito a latin waa
	T-NO.34	DENMARK	1	9	10/07	118	132	43	9	1.3	100	
	TRANSILVANIA	ROMANIA	6	8	22/07	142	105	69	8	1.2	91	
	TROY	U.S.A.	12	8	21/07	189	103	69	8	1.1	90	la casto e se a
aga manga ta agaman at	TURNIER	GERMANY	3	9	23/07	107	83	49	9	.7	63	elaport, o alega grane peror transporter
hite de ethelet	UNION	GERMANY	3	9	21/07	368	150	68	9	1.4	108	paraman (1943) (s. 1966) st
2004-0014-14040-4-1040-0-4400-0	VANTAGE	U.S.A.	3	9	22/07	15	12	62	9	1.1	90	
	VICTA	U.S.A.		9	23/07	329	255	49	9	.7	63	도망가 있었던 한 것을 가슴?
Ngastas Jasater Hoog Jos	WINDSOR	U.S.A.	3	9	21/07	390	160	56	9	1.2	91	esta tota ta pasa cuineata a s
UEGRASS	, ROUGH (POA TRIVIALIS)		o sosso s									
			한 이상 방송 방송									anda da séri.
	DASAS *	DENMARK	9	9	21/07	367	100	59	9	1.0	100	