2006 FORAGE GUIDE

TO VARIETY & MIXTURE SELECTION



Agriculture, Fisheries and Aquaculture Agriculture, Pêches et Aquaculture

RECOMMENDED FORAGE LEGUMES

	Reaction to*	Yield (% of	Winter	Seed Supplier
ALFALFA	Verticillium Wilt	AC Caribou)	Hardiness	Listing #
AC Brador	HR	100	Good	3
AC Caribou	R	100	Very Good	3
Abby	R	100	Good	3,8
Algonquin	S	100	Very Good	Public
Apica	S	103	Very Good	3
Arrow	R	98	Good	9
Bishops 134	HR	104	Very Good	1,14
Magnum IV	R	101	Very Good	1,14
OAC Minto	S	100	Good	1,2
Oneida VR	HR	97	Good	11
PICKSEED 2065MF	R	101	Very Good	9
Pioneer 54V54	HR	100	Very Good	10
Renaissance	R	101	Very Good	7
Ultra	R	98	Good	3,5

YIELD OF AC CARIBOU IN ATLANTIC TRIALS WAS 8.22 t/ha

*HR=Highly Resistant (more than 50% resistant plants), R=Resistant (31-50% resistant plants), MR=Moderately Resistant (15-30% resistant plants), S=Susceptible (less than 15% resistant plants).

RED	Approximate	Yield %	of AC Endure	Winter	Seed Supplier
CLOVER	Flowering Date	(1st Year)	(2 nd Year)	Hardiness	Listing #
AC Christie	June 16	99	92	Very Good	1,3
AC Endure	June 20	100	100	Very Good	3
Dolina	June 23	109	96	Very Good	3,13
Kvarta	June 23	95	109	Very Good	7
Tempus	June 23	108	116	Very Good	9
AC Charlie	June 25	99	97	Very Good	1

YIELD OF AC ENDURE 1st YEAR AFTER SEEDING 9.0 t/ha; 2nd YEAR AFTER SEEDING 7.0 t/ha

BIRDSFOOT	Approximate	Yield	Winter	Seed Supplier
TREFOIL	Flowering Date	(% of Leo)	Hardiness	Listing #
AC Langille	June 25	109	Very Good	3
Upstart	June 25	104	Good	7
Bull	June 25	103	Very Good	9
Léo	June 25	100	Good	Public
	YIELD OF LEC	IN ATLANTIC TRIALS	WAS 6.45 t/ha	
WILLER	A		Winter	Cood Cumplion
WHITE	Approximate		Winter	Seed Supplier
CLOVER	Approximate Flowering Date	Regrowth	Hardiness	Listing #
		Regrowth Excellent		
CLOVER	Flowering Date		Hardiness	Listing #
CLOVER Milkanova	Flowering Date June 26	Excellent	Hardiness Very Good	Listing # 3,7

RECOMMENDED FORAGE GRASSES

REED		Yield	Seed Supplier
CANARYGRASS	Maturity	(% of Palaton)	Listing #
Palaton	Very Early	100	3,4,12
Venture	Very Early	101	1,3,11,12,14
	VIELD OF PALATON	IN ATLANTIC TRIALS WAS 9.4	t/ha

RECOMMENDED FORAGE GRASSES

	Heading	YIELD (%	of Champ)	Seed Supplier	
TIMOTHY	Date*	Cut 1	Cut 2	Listing #	
Richmond	June 25	105	100	7,9	
Champ	June 27	100	100	Public	
AC Alliance	June 28	104	94	7	
Novio	June 30	107	104	3,8	
Apex	July 1	108	82	1	
Climax	July 1	107	78	Public	
Itasca	July 4	109	105	3	
Drummond	July 8	110	67	3,7	
Farol	July 10	103	67	1,3,4,7	

YIELD OF CHAMP IN ATLANTIC TRIALS WAS 6.45 t/ha (1st cut) and 2.63 t/ha (2nd cut).* Average of 4 Maritime sites.

GRAZING	Heading	YIELD (% of Farol)		Seed Supplier
TIMOTHY	Date*	Cut 1	Cut 2	Listing #
Comtal	July 10	101	96	9

YIELD OF FAROL IN ATLANTIC TRIALS WAS 6.64 t/ha (1st cut) and 1.76 t/ha (2nd cut) * Average of 4 Maritime sites.

GRAZING	Approx.	Tolerance to		Seed Supplier
KENTUCKY	Maturity	Variable	Yield	Listing #
BLUEGRASS	Rating	Drainage	(% of Lato)	
Lato	Early	Good	100	9

YIELD OF LATO IN ATLANTIC TRIALS WAS 7.2 t/ha

	Approximate	Tolerance to	Regrowth	Yield	Seed Supplier
BROMEGRASS	Maturity Rating	Variable Drainage	Vigor*	(% of Radisson)	Listing #
SMOOTH					
Bravo	Early	Good	1.7	105	7,9
Radisson	Early	Good	2.0	100	3
MEADOW					
Paddock	Very Early	Moderate	4.3	104	3,9
*Regrowth Vigor = ind	ex of forage regrowth (1=lowest: 5=highest)	YIELD OF RA	DISSON IN TRIALS '	WAS 7.5 t/ha

	Approximate	Tolerance to	Yield	Seed Supplier		
ORCHARDGRASS	Maturity Rating	Variable Drainage	(% of Kay)	Listing #		
AC Nordic	Medium	Fair	98	1,2,3,14		
Arctic	Medium - Late	Fair	99	3,11		
Kay	Early	Fair	100	3,7		
YIELD OF KAY IN ATLANTIC TRIALS WAS 8.4 t/ha						

MEADOW FESCUE			Yield (% of Mimer)	
Bartura	Early	Good	102	1
Epic	Early - Medium	Good	103	1,2,3,14
Mimer	Early - Medium	Good	100	3,4,7
Sigmund	Early - Medium	Good	103	11
YIELD OF MIMER IN ATLANTIC TRIALS WAS 8.5 t/ha				

PERENNIAL RYEGRASS			Yield (% of Bastion)		
Bastion	Medium - Late	Fair	100	3,4,7	
YIELD OF BASTION IN ATLANTIC TRIALS WAS 7.5 t/ha					

TALL FESCUE HYBRIDS	Approximate Maturity Rating	Tolerance to Variable Drainage	Tillering index*	Yield (% of Johnstone)	Seed Supplier Listing #
Courtenay	Medium	Good	2.5	110	3,11
Festorina	Medium	Good	4.5	102	3,7
Johnstone	Early - Medium	Good	3.8	100	1,11,14

^{*} Tillering Index -= amount of tillering potential or leafiness (1 = least; 5 = most) JOHNSTONE YIELD WAS 8.7 t/h

ANNUAL		Yield	Seed Supplier
RYEGRASS	Type	(% of Lemtal)	Listing #
Ajax	Tetraploid Italian	108	7,9
Aubade	Tetraploid Westerwolds	114	1,3,4,12,14
Barextra	Tetraploid Italian	104	1
Barmultra	Tetraploid Italian	102	1
Barspectra	Tetraploid Westerwolds	104	1
Bartolini	Diploid Italian	99	1
Brocar	Tetraploid Italian	109	15
Fabio	Diploid Italian	114	3,8
Lemtal	Diploid Italiane	100	1,3,4,14
Maris Ledger	Tetraploid Italian	104	3,4,7
Max	Tetraploid Italian	110	9
Sabroso	Tetraploid Westerwolds	115	1
SW Botrus	Tetraploid Westerwolds	110	6,11
	YIELD OF LEMTAL IN ATL	ANTIC TRIALS WAS 6.75 t/ha	a

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Listing #	COMPANY	Contact	Phone #	Fax #
1	Bishop Seeds	Matt Taylor	1 800 411-2062	613 968-8617
2	Brett-Young	Wayne Unger	204 261-7932	204 275-7333
3	Co-op Atlantic	Rafael Gonzalez	506 858-6356	506 858-6470
4	Halifax Seed Co.	Tim Tregunno	902 455-4364	902 455-5271
5	Hyland Seeds	Ivan Warriner	519 676-8146	519 676-5674
6	McCardle Bros.	Leonard McCardle	902 887-2338	902 887-3132
7	Mapleseed	Dave Keays	902 499-5183	902 446-2505
8	Parsons Seeds Ltd.	Robert Thom	905 729-2202	905 729-2623
9	Pickseed Canada Inc.	Paul Wight	1 800 661-4769	705 878-9249
10	Pioneer Hi-Bred Ltd.	Jim Lamb	902 538-3623	902 538-8284
11	Quality Seeds Ltd.	Doug Baker	1 877 856-7333	905 856-7509
12	Seed Link	Peter Bonis	705 324-0544	705 324-2550
13	Semican	Jacques Beauchesne	819 362-8823	819-362-3385
14	Speare Seeds	Bob Dippel	519 338-3840	519 338-2510
15	Westend Seeds Ltd.	Max VanCingel	506-455-9000	506-455-9000

FORAGE MIXTURES TO CONSIDER FOR YOUR FARM

Recommended Perennial Pasture Mixtures

These mixtures are designed with careful consideration to the specific attributes of each species. Close attention must be paid to fertility levels, stocking rates, rotational grazing practices and fall cutting management, if the following mixtures are to remain productive.

A. Moderately Well Drained to Variable Soils

Mixture	Rate	Comments
10% White Clover 30% Orchardgrass 60% Meadow Fescue	22 kg/ha	Good dual purpose mixture for early cut silage and rotational grazing. Meadow fescue helps give a better bottom to the pasture, producing a tighter sod more 60% more resistant to poaching (punching).
10% White Clover 25% Timothy 30% Kentucky Bluegrass 35% Meadow Fescue	22 kg/ha	Palatable mixture with good longevity from Kentucky bluegrass and meadow fescue if proper rotational grazing and fertility are used. Some cultivars are more productive under grazing trials than others (e.g. Comtal timothy & Lato Kentucky bluegrass).
10% White Clover 30% Timothy 60% Meadow Fescue	20 kg/ha	Timothy, though less productive than orchardgrass, is more winter hardy, especially on imperfectly drained soils. Some timothy cultivars are more productive under grazing trials than others (e.g. Comtal timothy).

Recommended Havlage Mixtures

Mixture

65% Reed Canarygrass

65% Birdsfoot Trefoil

35% Timothy

35% Timothy

14 kg/ha

12 kg/ha

A. Loamy Soils with good surface and internal drainage Rate **Comments**

80% Alfalfa 20% Timothy	15 kg/ha	
		This high yielding, high quality mixture is suited to well drained soils with a minimum pH of
2070 1111100119	C	6. Having a grass in the mix improves dry down and reduces frost heaving.
		o. The mig a grass in the max improves any down and reduces from heaving.
60% Alfalfa	17 kg/ha	Orchardgrass is less compatible with alfalfa than timothy, but has superior regrowth
	17 Kg/IIa	
40% Orchardgrass		and is better suited to a three cut system. Harvest early to maximize quality.
55% Alfalfa	20 kg/ha	This mixture should be used on well drained fields and with an early alfalfa.
45% Bromegrass		Bromegrass is very compatible with alfalfa. Timothy works well with this mixture.
_		Soils – Heavy Soils Mixtures
Mixture	Rate	Comments
30% Alfalfa	18 kg/ha	Use on fields containing soils with variable drainage, e.g. formed dykeland. This mixture does
40% Bromegrass		well in an aggressive 2-3 cut system, starting with an early June harvest.
30% Timothy		, , , , , , , , , , , , , , , , , , ,
60% Red Clover	12 kg/ha	Best suited for short rotations. Contains a high percentage of red clover in the first two
40% Timothy		production years as the red clover thins out, both yield and quality decline.
30% Red Clover	20 kg/ha	The addition of ladino clover and meadow fescue improves the reliability and the longevity of
10% Ladino Clover	20 kg/11a	this mixture, but can become too competitive on timothy.
		this mixture, but can become too competitive on timothy.
40% Timothy		
20% Meadow Fescue		
A. Moderate to Well Dra	ined Soils	Comments
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A. Moderate to Well Dra Mixture 65% Alfalfa	ined Soils	Although alfalfa is not as difficult to wilt as red clover, a hay drier will allow baling at 35% a
Recommended Hay M A. Moderate to Well Dra Mixture 65% Alfalfa 35% Timothy	ined Soils Rate	
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Suggested changes for the 2007 Forage Guide should be sent to the Editor, Forage Guide, AgraPoint, 10 Webster St., Mailbox 204, Kentville, N.S. B4N lH7 by July 1st, 2006. Forage Guide recommendations are a result of cultivar evaluation trials and research done in the Atlantic Region. Contributions were made by Crops & Livestock Research Center, Agric. & Agri-Food Canada (Charlottetown) plus N.S.A.C., AgraPoint, SCIANS (NS Soil & Crop), N.B.D.A.F.A., P.E.I.D.A. & F. and N.B. Soil & Crop Improvement Association.

Low alkaloid varieties of Canarygrass can be used on poorly drained fields which are

subjected to periodic flooding. Quality and palatability drop rapidly following heading.

needs 50% bloom before harvest. Trefoil will not persist under frequent cutting.

Trefoil is difficult to get established properly. Trefoil can handle lower fertility situations ,but