

2010 MARITIME FORAGE CULTIVAR PERFORMANCE LIST

<b>ALFALFA</b>	<b>Mean Annual Yield 2 years (t/ha)</b>	<b># of site yrs tested</b>	<b>% yield relative to check cultivars</b>	<b>3 Yr % persistence</b>	<b>Seed Supplier Listings #</b>
Apica	8.58	112	103	-1.4	2
AC Caribou	8.35	108	100	5.6	2
AC Brador	8.55	29	103	-2.0	2, 11
Magnum IV	8.22	27	99	11.4	1
134	8.26	27	99	5.3	1
54V46	8.45	15	102	2.5	8
Magnum 3801	8.71	7	105	*	1
Valiant	8.25	7	99	*	1
Ascend	7.95	7	96	*	2
Magnum III	8.82	7	106	*	2
STELLAR FG	8.58	7	103	*	9
Guardsman II	8.31	7	100	*	9
53Q30	7.94	7	95	*	8
55V48	8.10	7	97	*	8
Algonquin	8.60	7	103	*	2, 3

<b>RED CLOVER</b>	<b>Mean Annual Yield 2 years (t/ha)</b>	<b># of site yrs tested</b>	<b>% yield relative to check cultivars</b>	<b>3 Yr % persistence</b>	<b>Seed Supplier Listings #</b>
Tempus	8.89	37	106	-7.4	7
AC Endure	8.67	27	104	33.0	2, 6
AC Charlie	8.28	24	99	19.9	6
AC Christie	8.46	19	101	*	2, 6

<b>BIRDSFOOT TREFOIL</b>	<b>Mean Annual Yield 2 years (t/ha)</b>	<b># of site yrs tested</b>	<b>% yield relative to check cultivars</b>	<b>3 Yr % persistence</b>	<b>Seed Supplier Listings #</b>
Leo	8.01	18	101	*	Public
Upstart	8.16	8	104	*	5
Bull	8.50	8	99	*	7
Empire	8.07	8	102	*	Public
AC Langille	8.57	4	106	*	2

<b>WHITE CLOVER</b>	<b>Mean Annual Yield 2 years (t/ha)</b>	<b># of site yrs tested</b>	<b>% yield relative to check cultivars</b>	<b>3 Yr % persistence</b>	<b>Seed Supplier Listings #</b>
Sonja	5.17	27	93	0.2	1,2,5
Sacramento (Ladino)	5.36	24	97	4.6	Public
Milkanova	4.78	16	86	-13.3	2,5

<b>TIMOTHY</b>	<b>Mean Annual Yield 2 years (t/ha)</b>	<b># of site yrs tested</b>	<b>% yield relative to check cultivars</b>	<b>3 Yr % persistence</b>	<b>Seed Supplier Listings #</b>
Richmond – E	9.15	47	104	5.4	2,5,7
Champ – EM	8.74	56	99	- 1.2	Public
AC Apex – M	8.47	23	96	4.5	6
Alexander – M	9.12	10	103	*	1
Aurora – M	8.94	10	101	*	1, 2
Climax – M	8.53	57	97	- 2.6	Public
EXPRESS – M	9.23	10	105	*	9
Hokuo – M	8.84	10	100	*	2
Novio – M	9.00	21	102	1.3	2, 6
Ovation – M	9.18	10	104	*	2, 11
Itasca – ML	9.06	10	103	*	2
KARA – ML	8.84	10	100	*	2, 11
Winnetou – ML	8.74	10	99	*	2, 6
Comtal – L	8.24	27	93	5.4	7
Drummond – L	8.49	10	96	*	2, 5

E = Early EM = Early Medium M = Medium ML = Medium Late L = Late

<b>BROMEGRASS</b>	<b>Mean Annual Yield 2 years (t/ha)</b>	<b># of site yrs tested</b>	<b>% yield relative to check cultivars</b>	<b>3 Yr % persistence</b>	<b>Seed Supplier Listings #</b>
Paddock	8.14	30	99	18.2	2, 7
Radisson	7.99	27	98	- 0.9	2
Hikari	7.22	8	88	*	1
Big Foot	7.86	8	96	*	1
PEAK	8.51	8	104	*	9
AC Rocket	8.22	8	100	*	2, 11

<b>ORCHARDGRASS</b>	<b>Mean Annual Yield 2 years (t/ha)</b>	<b># of site yrs tested</b>	<b>% yield relative to check cultivars</b>	<b>3 Yr % persistence</b>	<b>Seed Supplier Listings #</b>
Kay	8.29	26	103	4.3	2, 5
Arctic	8.21	26	102	- 9.4	2, 9
Baridana	8.15	10	102	*	1
Persist	8.33	10	104	*	2, 6
Crown Royale	8.59	10	107	*	2, 6

<b>REED CANARYGRASS</b>	<b>Mean Annual Yield 2 years (t/ha)</b>	<b># of site yrs tested</b>	<b>% yield relative to check cultivars</b>	<b>3 Yr % persistence</b>	<b>Seed Supplier Listings #</b>
Chieftain	9.10	8	101	*	1
Marathon	9.55	8	106	*	9
Venture	9.10	8	101	*	1, 2
Palaton	9.00	8	100	*	2

<b>TALL FESCUE</b>	<b>Mean Annual Yield 2 years (t/ha)</b>	<b># of site yrs tested</b>	<b>% yield relative to check cultivars</b>	<b>3 Yr % persistence</b>	<b>Seed Supplier Listings #</b>
Courtenay	9.80	29	108	- 9.6	2, 9
Kokanee	9.80	8	108	*	2, 6
Kora	9.73	8	107	*	2, 6

<b>MEADOW FESCUE</b>	<b>Mean Annual Yield 2 years (t/ha)</b>	<b># of site yrs tested</b>	<b>% yield relative to check cultivars</b>	<b>3 Yr % persistence</b>	<b>Seed Supplier Listings #</b>
Pardel	8.66	8	102	*	1
Kolumbus	8.49	8	100	*	2, 6

<b>GRAZING KENTUCKY BLUEGRASS</b>	<b>Mean Annual Yield 2 years (t/ha)</b>	<b># of site yrs tested</b>	<b>% yield relative to check cultivars</b>	<b>3 Yr % persistence</b>	<b>Seed Supplier Listings #</b>
Lato	7.48	8	106	-23.0	7

<b>PERENNIAL RYEGRASS</b>	<b>Mean Annual Yield 2 years (t/ha)</b>	<b># of site yrs tested</b>	<b>% yield relative to check cultivars</b>	<b>3 Yr % persistence</b>	<b>Seed Supplier Listings #</b>
Bastion	6.18	23	102	5.8	1,2,5

<b>ANNUAL RYEGRASS</b>	<b>Type</b>	<b>% yield relative to Lemtal</b>	<b>Seed Supplier Listings #</b>
Ajax	Tetraploid Italian	108	5, 7
Aubade	Tetraploid Westerwolds	114	1,2,10
Barextra	Tetraploid Italian	104	1
Barmultra	Tetraploid Italian	102	1
Barspectra	Tetraploid Westerwolds	104	1
Bartolini	Diploid Italian	99	1
Fabio	Diploid Italian	114	2, 6
Lemtal	Diploid Italian	100	1, 2
Max	Tetraploid Italian	110	7
Sabroso	Tetraploid Westerwolds	115	1
SW Botrus	Tetraploid Westerwolds	110	4, 9

#### ATLANTIC SEED SUPPLIERS

<b>Listing #</b>	<b>Company</b>	<b>Contact</b>	<b>Phone #</b>	<b>Fax #</b>
1	Bishop/Speare Seeds	Bob Dippel	519-338-3840	519-338-2510
2	Co-op Atlantic	Rafael Gonzalez	506-858-6356	506-858-6470
3	Halifax Seed Co.	Tim Tregunno	902-455-4364	902-455-5271
4	McCardle Bros.	Leonard McCardle	902-887-2338	902-887-3132
5	MAPLESEED	Gerrit Van Keulan	519-281-0032	519-357-1370
6	Parsons Seeds Ltd.	Robert Thom	905-729-2202	905-729-2623
7	PICKSEED Canada Inc.	Paul Wight	1-800-661-4769	705-878-9249
8	Pioneer Hi-Bred Ltd.	Jim Lamb	902-538-3623	902-538-8284
9	Quality Seeds Ltd.	Doug Baker	1-877-856-7333	905-856-7509
10	Seed Link	Peter Bonis	705-324-0544	705-324-2550
11	Semican	Jacques Beauchesne	819-362-8823	819-362-3385

Forage testing contributions were made by Crops & Livestock Research Center, Agric. & Agri. Food Canada (Charlottetown), N.S.A.C., AgraPoint, SCIANS (NS Soil & Crop), N.B.D.A.A. & NB Soil & Crop.

#### 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

<b>Mixture</b>	<b>Rate</b>	<b>Comments</b>
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 resistant to poaching (punching).
10% White Clover 40% Kentucky Bluegrass 50% Meadow Fescue	20 kg/ha	Palatable mixture, but must be managed well, if under utilized will become stemmy. Kentucky bluegrass has good winter hardiness and persists well under grazing.
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 Haylage Mixtures

### A. Loamy Soils with good surface and internal drainage

Mixture	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 6. Having a grass in the mix improves dry down and reduces frost heaving.
60% Alfalfa 40% Orchardgrass or Reed Canarygrass	17 kg/ha	Orchardgrass and reed canarygrass are less compatible with alfalfa than timothy, but have superior regrowth. Harvest early to maximize quality.
55% Alfalfa 45% Bromegrass	20 kg/ha	This mixture should be used on well drained fields and with an early alfalfa. Bromegrass works well with alfalfa, but can be difficult to establish.

### B. Variable to Imperfectly Drained Soils – Heavy Soil Mixtures

Mixture	Rate	Comments
40% Alfalfa 30% Timothy 30% Reed Canarygrass	18 kg/ha	Use on fields containing soils with variable drainage, e.g. formed dykeland. This mixture does well in an aggressive 2-3 cut system, starting with an early June harvest.
60% Red Clover 40% Timothy	12 kg/ha	Best suited for short rotations. Contains a high percentage of red clover in the first two production years as the red clover thins out, both yield and quality decline.
30% Red Clover, 10% Ladino Clover, 40% Timothy & 20% Meadow Fescue	20 kg/ha	The addition of ladino clover and meadow fescue improves the reliability and the longevity of this mixture, but can become too competitive on timothy.

## Recommended Hay Mixtures

### A. Moderate to Well Drained Soils

Mixture	Rate	Comments
65% Alfalfa 35% Timothy	15 kg/ha	Although alfalfa is not as difficult to wilt as red clover, a hay drier will allow baling at a higher moisture improving leaf retention.
50% Alfalfa 50% Bromegrass	20 kg/ha	Select an early alfalfa. Bromegrass is very compatible with alfalfa and can be superior to timothy in quality and regrowth.
70% Bromegrass 30% Timothy	18 kg/ha	This mixture is well adapted to deeper droughty soils. Due to early maturity, plan to take first cut as haylage. Use early timothy cultivars.

### B. Poor to Imperfectly Drained Soils

Mixture	Rate	Comments
85% Timothy 15% Red Clover	13 kg/ha	Red clover is difficult to field cure. A hay drier will reduce heating in storage. Red clover is a short lived perennial which usually doesn't produce longer than three years. For these reasons avoid excessive red clover in mixtures.
Timothy	10 kg/ha	Consider just timothy for farms without hay driers and/or in coastal areas that have difficult drying conditions. Select cultivars with varying maturities to spread out harvest.
65% Reed Canarygrass 35% Timothy	14 kg/ha	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.
65% Birdsfoot Trefoil 35% Timothy	12 kg/ha	Trefoil is difficult to get established properly. Trefoil can handle lower fertility situations, but needs 50% bloom before harvest. Trefoil will not persist under frequent cutting.