

## 2015 Maritime Forage Cultivar Performance List

ALFALFA	Mean Annual Yield 3 Yrs (t/ha)	# of site yrs tested	% yield relative to AC Caribou	3 Yr persistence (%)	Seed Supplier Listing #
Apica	8.65	127	103	+ 0.6	2
AC Caribou	8.42	123	100	+ 6.1	2
AC Brador	8.54	44	101	+ 2.8	8
Magnum VI	8.35	29	99	+ 14.5	2
55V48	8.10	22	96	- 4.8	6
Algonquin	8.39	22	97	+ 3.5	2, 3
Maska	8.19	13	97	- 0.6	8
54Q32	8.14	13	97	+ 2.9	6
55V50	8.49	13	101	- 6.2	6
Adrenaline	8.23	13	98	+ 5.4	10
2010	8.37	13	99	+ 2.2	10
OAC Superior	8.56	13	102	+ 1.6	1
Cornerstone	8.66	13	103	- 4.9	9
Stealth II	8.34	13	99	- 7.5	7
Lelia	8.26	13	98	- 3.3	2, 7
Response WT	8.64	13	103	- 8.1	7

RED CLOVER	Mean Annual Yield 3 Yrs (t/ha)	# of site yrs tested	% yield relative to AC Endure	3 Yr persistence (%)	Seed Supplier Listing #
AC Endure	9.04	38	100	+ 9.0	2, 7
Wildcat	8.53	16	94	+ 10.3	2, 10
Meridian	9.27	9	103	+ 24.1	2, 7

BIRDSFOOT TREFOIL	Mean Annual Yield 3 Yrs (t/ha)	# of site yrs tested	% yield relative to Leo	2 Yr persistence (%)	Seed Supplier Listing #
Leo	6.75	27	100	0	2, 3
Bruce	7.05	18	104	- 1.0	8
AC Langile	7.38	4	109	- 15.6	2

WHITE CLOVER	Mean Annual Yield 3 Yrs (t/ha)	# of site yrs tested	% yield relative to Huia	3 Yr persistence (%)	Seed Supplier Listing #
Alice	4.03	10	100	- 8.1	1
Huia	4.04	10	100	- 18.4	5, 3, 7

<b>TIMOTHY</b>	<b>Mean Annual Yield 3 Yrs (t/ha)</b>	<b># of site yrs tested</b>	<b>% yield relative to Climax</b>	<b>3 Yr persistence (%)</b>	<b>Seed Supplier Listing #</b>
Richmond – E	9.00	65	106	+ 1.3	2
Champ – EM	8.60	74	101	+ 1.7	2, 3
Climax – M	8.50	76	100	+ 2.3	2, 3
Novio – M	8.72	39	103	+ 6.3	2
Alexander – M	8.52	28	100	+ 8.0	1
Ovation – M	8.47	28	100	+ 3.2	8
Express – M	8.81	14	104	- 2.8	2, 7
Hokuo – M	8.54	14	100	- 0.2	2
Itasca – ML	8.81	28	104	- 5.5	2
Winnetou – ML	8.35	28	98	+ 6.1	2
<b>KARA – ML</b>	8.51	28	100	+ 4.2	8

E = Early; EM=Early medium; M = Medium; ML = Medium Late; L = Late.

<b>BROMEGRASS</b>	<b>Mean Annual Yield 3 Yrs (t/ha)</b>	<b># of site yrs tested</b>	<b>% yield relative to AC Rocket</b>	<b>3 Yr persistence (%)</b>	<b>Seed Supplier Listing #</b>
AC Rocket	7.43	26	100	- 5.3	2
Radisson	7.01	29	94	- 2.6	2
Carlton	7.47	16	101	+ 4.0	2
York	7.60	14	102	+ 5.7	2, 7

<b>ORCHARDGRASS</b>	<b>Mean Annual Yield 3 Yrs (t/ha)</b>	<b># of site yrs tested</b>	<b>% yield relative to Persist</b>	<b>3 Yr persistence (%)</b>	<b>Seed Supplier Listing #</b>
Persist	7.68	28	100	+ 2.8	5, 2
Baridana	7.41	28	96	- 0.0	1
Intensive	7.53	28	98	- 6.4	1
Crown Royale	7.44	28	97	- 0.1	2
Tundra	7.56	14	98	- 10.7	9

<b>REED CANARYGRASS</b>	<b>Mean Annual Yield 3 Yrs (t/ha)</b>	<b># of site yrs tested</b>	<b>% yield relative to Venture</b>	<b>3 Yr persistence (%)</b>	<b>Seed Supplier Listing #</b>
Venture	7.37	22	100	+ 5.3	1
Marathon	7.86	22	107	- 2.3	7

<b>TALL FESCUE</b>	<b>Mean Annual Yield 3 Yrs (t/ha)</b>	<b># of site yrs tested</b>	<b>% yield relative to Courtenay</b>	<b>3 Yr persistence (%)</b>	<b>Seed Supplier Listing #</b>
Courtenay	8.76	45	100	- 9.4	2
Kora	8.46	24	97	- 7.8	2
HyMark	7.94	24	91	- 12.6	4
Barolex	7.19	13	82	- 19.8	1
Kokanee	8.73	11	100	- 0.8	2

<b>MEADOW FESCUE</b>	<b>Mean Annual Yield 3 Yrs (t/ha)</b>	<b># of site yrs tested</b>	<b>% yield relative to Pardel</b>	<b>3 Yr persistence (%)</b>	<b>Seed Supplier Listing #</b>
Pardel	6.73	23	100	+ 1.3	1
Preval	6.65	12	99	+ 6.4	2

<b>PERENNIAL RYEGRASS</b>	<b>Mean Annual Yield 3 Yrs (t/ha)</b>	<b># of site yrs tested</b>	<b>% yield relative to Kentaur</b>	<b>3 Yr persistence (%)</b>	<b>Seed Supplier Listing #</b>
<b>Kentaur</b>	5.09	16	100	- 15.0	7
<b>Remington</b>	5.36	11	105	- 12.4	1

<b>ANNUAL RYEGRASS</b>	<b>Type</b>	<b>Mean Annual Yield 1 Yr (t/ha)</b>	<b># of site yrs tested</b>	<b>% yield relative to Lemtal or Aubade</b>	<b>Seed Supplier Listing #</b>
<b>Lemtal</b>	Diploid Italian	5.76	34	100	2, 3
<b>Fox</b>	Diploid Italian	6.07	16	105	2
<b>Fabio</b>	Diploid Italian	6.71	7	116	2
<b>Barextra</b>	Tetraploid Italian	6.19	17	107	1
<b>Aubade</b>	Tetraploid Westerwolds	6.66	28	100	2
<b>Sabroso</b>	Tetraploid Westerwolds	6.48	17	97	1

#### **ATLANTIC SEED SUPPLIERS**

<b>Listing #</b>	<b>Company</b>	<b>Contact</b>	<b>Phone #</b>	<b>Website or email</b>
<b>1</b>	Bishop/Speare Seeds	Scott Bowman	519 338-3840	sbowman@speareseeds.ca
<b>2</b>	Co-op Atlantic	Rafael Gonzalez	506 858-6356	Rafael.Gonzalez@coopatlantic.ca
<b>3</b>	Halifax Seed Co.	Carla Isnor	902 454-7456	info@halifaxseed.ca
<b>4</b>	Fraser Seeds	Ken Van Den Bosch	604 929-7371	ken@fraserseeds.com
<b>5</b>	Smith Seeds	Jonathan Rupert	1 888-550-2930	jrupert@smithseed.com
<b>6</b>	Pioneer Hi-Bred Ltd.	Jim Lamb	902 680 0243	jimblamb@hotmail.com
<b>7</b>	Quality Seeds Ltd.	Doug Baker	613 532-0850	doug@qualityseeds.ca
<b>8</b>	Semican	Jacques Beauchesne	819 362-8823	semican@semican.ca
<b>9</b>	General Seed	Wayne Deboer	905 648-2101	generalseedcompany@gmail.ca
<b>10</b>	Brett Young	Joel Rey	1 800 665-5015	Joel.rey@brettyoung.ca

Forage testing contributions were made by NB Soil & Crop Improvement Association, New Brunswick Department of Agriculture, Aquaculture & Fisheries, Agriculture & Agri-Food Canada (Charlottetown), Dalhousie Faculty of Agriculture, Perennia & Soil & Crop Improvement Association of Nova Scotia.

### **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 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 6.5. 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.
60% Alfalfa 40% Tall Fescue	18 kg/ha	This mixture works best when the crop is intensively managed with multi harvests. Fescues can be more difficult to dry than other grasses but have excellent regrowth and 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 or Tall Fescue	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. Soils should have a minimum pH of 6.5.
60% Alfalfa 40% Tall Fescue	18 kg/ha	Best suited to multi-harvest management. The fescues can be more difficult to dry down but have excellent regrowth and quality. Soils should have a minimum pH of 6.5.
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. Soils should have a minimum pH of 6.5.
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.