



Agriculture and Fisheries

2018 Forage Guide to Cultivar Selection

2018 Maritime Forage Cultivar Performance List

ALFALFA	Mean Annual Yield 3 Yrs (t/ac)	# of site yrs tested	% yield relative to AC Caribou	3 Yr % persistence	Seed Supplier Listing #
AC Caribou	3.44	129	100	+ 6.4	2,10,11
AC Brador	3.46	37	100	+ 4.5	8
Magnum VI	3.42	42	99	+16.2	2,11
Algonquin	3.32	28	97	+ 5.8	2, 3
55V50	3.53	19	103	- 2.8	6
54Q14	3.68	13	107	+31.0	6
55Q27	3.92	13	114	- 11.8	6
Maska	3.25	13	94	+13.8	8
Adrenaline	3.27	13	95	+ 12.2	10
2010	3.42	13	99	+ 12.5	10
OAC Superior	3.34	13	97	+ 12.1	1
Response WT	3.52	13	102	- 6.3	7
Stealth II	3.32	13	97	+1.2	7
Lelia	3.35	13	97	+5.8	2, 7
Cornerstone	3.40	13	99	+4.7	9
Perfection	3.63	13	105	+6.5	9
Digest HD	3.41	13	99	+6.2	9
Actis	3.71	13	108	+10.1	11
AAC-Nikon	3.56	13	103	+15.4	11

RED CLOVER	Mean Annual Yield 3 Yrs (t/ac)	# of site yrs tested	% yield relative to AC Endure	3 Yr % persistence	Seed Supplier Listing #
Wildcat	3.45	16	94	+ 10.3	2, 10,11
Meridian	3.75	9	103	+ 24.1	2, 7

BIRDSFOOT TREFOIL	Mean Annual Yield 3 Yrs (t/ac)	# of site yrs tested	% yield relative to Leo	3 Yr % persistence	Seed Supplier Listing #
Leo	2.68	31	100	0	2, 3
Bruce	2.73	22	102	- 9.3	8

WHITE CLOVER	Mean Annual Yield 3 Yrs (t/ac)	# of site yrs tested	% yield relative to Huia	3 Yr % persistence	Seed Supplier Listing #
Alice	1.63	10	100	- 8.1	1
Huia	1.63	10	100	- 18.4	5, 3,7,11

TIMOTHY	Mean Annual Yield 3 Yrs (t/ac)	# of site yrs tested	% yield relative to Climax	3 Yr % persistence	Seed Supplier Listing #
Richmond – E	3.64	65	106	+ 1.3	2,11
Climax – M	3.44	76	100	+ 2.3	2, 3
Novio – M	3.53	39	103	+ 6.3	2
Ovation – M	3.43	28	100	+ 3.2	8
Express – M	3.57	14	104	- 2.8	2, 7
Hokuo – M	3.46	14	100	- 0.2	2,11
Itasca – ML	3.57	28	104	- 5.5	2,11
Winnetou – ML	3.38	28	98	+ 6.1	2,10,11
KARA – ML	3.44	28	100	+ 4.2	8

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

BROMEGRASS	Mean Annual Yield 3 Yrs (t/ac)	# of site yrs tested	% yield relative to AC Rocket	3 Yr % persistence	Seed Supplier Listing #
AC Rocket	3.01	26	100	- 5.3	2
Carlton	3.02	16	101	+ 4.0	2
York	3.08	14	102	+ 5.7	2, 7

ORCHARDGRASS	Mean Annual Yield 3 Yrs (t/ac)	# of site yrs tested	% yield relative to Persist	3 Yr % persistence	Seed Supplier Listing #
Persist	3.11	28	100	+ 2.8	5, 2
Baridana	3.00	28	96	- 0.0	1
Intensive	3.05	28	98	- 6.4	1
Crown Royale	3.01	28	97	- 0.1	2
Tundra	3.06	14	98	- 10.7	9

REED CANARYGRASS	Mean Annual Yield 3 Yrs (t/ac)	# of site yrs tested	% yield relative to Venture	3 Yr % persistence	Seed Supplier Listing #
Marathon	3.18	22	107	- 2.3	7

TALL FESCUE	Mean Annual Yield 3 Yrs (t/ac)	# of site yrs tested	% yield relative to Kora	3 Yr % persistence	Seed Supplier Listing #
Kora	3.42	38	100	+ 0.7	11
HyMark	3.13	38	92	- 3.8	4
Barolex	2.88	13	84	- 5.8	1
Kokanee	3.50	11	102	- 2.6	2,10,11

MEADOW FESCUE	Mean Annual Yield 3 Yrs (t/ac)	# of site yrs tested	% yield relative to Pardel	3 Yr % persistence	Seed Supplier Listing #
Pardel	2.67	36	100	+ 1.3	1
Preval	2.70	25	101	+ 6.8	11
Cosmonaut	2.71	25	101	+ 4.5	1

PERENNIAL RYEGRASS	Mean Annual Yield 3 Yrs (t/ac)	# of site yrs tested	% yield relative to Kentaur	3 Yr % persistence	Seed Supplier Listing #
Kentaur	2.06	16	100	- 15.0	7
Remington	2.17	11	105	- 12.4	1

ANNUAL RYEGRASS	Type	Mean Annual Yield 1 Yr (t/ac)	# of site yrs tested	% yield relative to Lemtal or Aubade	Seed Supplier Listing #
Lemtal	Diploid Italian	2.33	34	100	2, 3,11
Fabio	Diploid Italian	2.72	7	116	2,10,11
Barextra	Tetraploid Italian	2.51	17	107	1
Aubade	Tetraploid Westerwolds	2.70	28	100	2,10,11
Sabroso	Tetraploid Westerwolds	2.62	17	97	1

ATLANTIC SEED SUPPLIERS

Listing #	Company	Contact	Phone #	e-mail or fax #
1	Bishop/Speare Seeds	Scott Bowman	519-338-3840	sbowman@speareseeds.ca
2	Atlantic Farm Services	Rafael Gonzalez	506-858-6356	Rafael.Gonzalez@afs.coop
3	Halifax Seed Co.	Dana Slack	902-454-7456	info@halifaxseed.ca
4	Fraser Seeds	Ken Van Den Bosch	604-929-7371	ken@fraserseeds.com
5	Smith Seeds	Jonathan Rupert	888-550-2930	jrupert@smithseed.com
6	DuPont Pioneer	Colin Brown	902-599-3010	colin.brown@pioneer.com
7	Quality Seeds Ltd.	Doug Baker	613-532-0850	doug@qualityseeds.ca
8	Semican	Philippe Charlebois	819-362-8823	semican@semican.ca
9	General Seed	Wayne Deboer	905-648-2101	generalseedcompany@gmail.ca
10	Brett Young	Joel Rey	800-665-5015	Joel.rey@brettyoung.ca
11	Elite Seeds	Kevin McCarville	902-432-0375	kevin.mccarville@eliteseeds.ca

Forage testing contributions were made by New Brunswick Dept of Agriculture and Aquaculture, Agric. & Agri-Food Canada (Kentville), Dalhousie Faculty of Agriculture, Perennia, SCIANS (NS Soil & Crop), N.B.D.A.A. & NB Soil & Crop. The 2018 Forage Guide for PEI has been prepared by AFACT & can be found on the web at: www.princeedwardisland.ca/en/topic/field-crops

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	20 lb/ac	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	18 lb/ac	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	18 lb/ac	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	13 lb/ac	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.
70% Alfalfa 30% Orchardgrass or Reed Canarygrass	15 lb/ac	Orchardgrass and Reed Canarygrass are less compatible with alfalfa than timothy, but have superior regrowth. Harvest early to maximize quality.
80% Alfalfa 20% Tall Fescue	16 lb/ac	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	18 lb/ac	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	16 lb/ac	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	16 lb/ac	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	11 lb/ac	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	18 lb/ac	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	13 lb/ac	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	18 lb/ac	Select an early alfalfa. Bromegrass is very compatible with alfalfa and can be superior to timothy in quality and regrowth.
65% Bromegrass 35% Timothy	16 lb/ac	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	12 lb/ac	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	9 lb/ac	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	12 lb/ac	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	11 lb/ac	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.