



# Varieties of Perennial Hay and Pasture Crops for Alberta

Prepared by the Alberta Forage Variety Committee

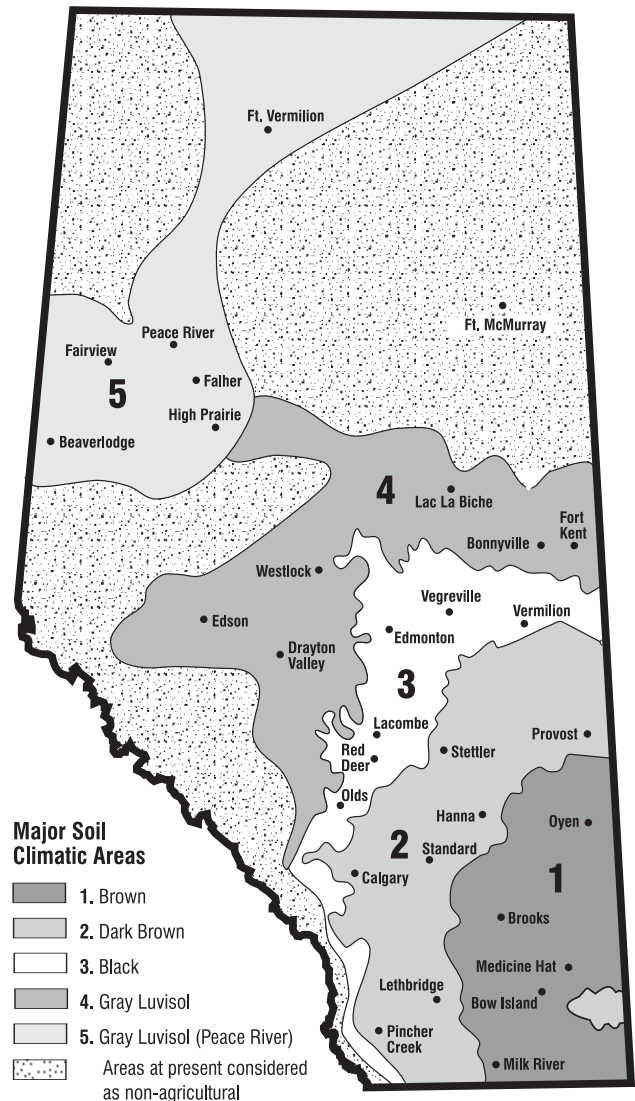
## Variety testing procedures

The Western Forage Testing trials were initiated in 1994 and are conducted province-wide by Alberta Agriculture and Food, Alberta Research Council, Agriculture and Agri-Food Canada, Provincial Applied Research Associations and the seed trade. These trials are funded in part by seed companies, the Alberta Branch Canadian Seed Growers Association (1993) and the Association of Alberta Co-op Seed Cleaning Plants Ltd. The yield comparison data used in this publication are collected and compiled by the Alberta Forage Variety Committee. This publication and the information on Ropin' the Web are updated on a continuing basis, as it becomes available.

The guidelines, as set out by the Alberta Forage Variety Committee, require that there be three harvest years from two locations in each soil climatic area before the area data is included in this publication. All yields are taken as dry matter hay yields. Varieties may respond differently under pasture conditions. Yield data may vary from year to year depending on growing conditions. Information in this publication should only be used as an indicator as to the potential yield differences between varieties.

## Current test site locations

<b>Area 1</b> No current sites	<b>Area 2</b> No current sites	<b>Area 3</b> Vegreville
<b>Area 4</b> Fort Kent Westlock	<b>Area 5</b> No current sites	<b>Irrigation</b> Brooks Lethbridge



# A L F A L F A

Agronomic characteristics and yield comparison as % of Beaver

Variety	Type <sup>1</sup>	Hardiness <sup>2</sup>	Regrowth <sup>3</sup>	Area (See Map)					Resistance to: <sup>4</sup>			Distributor	
				Irr.	1	2	3	4	5	BW <sup>5</sup>	VW		PRR
AC Blue J	Fl.	G	M-R	105	101	99	99	99	-	R	R	-	SeCan
AC Caribou	Fl.	F	R	105	103	98	106	109	105	R	R	MR	BrettYoung
AC Grazeland Br.	Std.	G	R	103	-	-	105	-	-	R	S	-	Pickseed Canada
AC Longview	Fl.	G	R	114	-	-	-	-	-	R	HR	-	FarmPure Seeds
Algonquin	Std.	G	M	101	99	101	102	105	101	HR	S	S	Public
AmeriStand 201+Z	Fl.	E	R	105	-	-	99	-	-	HR	HR	HR	Viterra/Proven
Anik	Sib.	E	VS	-	-	58	88	89	94	S	S	S	Dore Seeds
Approved	Fl.	G	R	-	-	-	-	-	-	HR	HR	HR	FarmPure Seeds
Atomic	Fl.	G	R	112	-	-	109	-	-	HR	R	HR	Johnson Seeds, Foster's Seed
Barrier	Std.	G	M	107	-	-	-	-	-	R	R	-	SeCan
Beaver	Std.	E	M	100	100	100	100	100	100	R	-	-	Public
Convoy	Std./Fl.	G	M-R	-	-	-	-	-	-	HR	HR	HR	Viterra/Proven
Dakota	Fl.	G	R	106	-	-	-	-	-	R	MR	HR	Sunshine Seeds
Dalton	Fl.	G	R	112	-	-	-	96	-	R	R	-	SeCan
Equinox	Std./Fl.	G	M-R	-	-	-	-	-	-	HR	HR	HR	Viterra/Proven
Forecast 1001	Fl.	E	R	106	-	-	-	-	-	HR	R	HR	BrettYoung
Gala	Fl.	G	R	108	-	-	100	-	-	R	R	R	Viterra/Proven
HayGrazer	Std.	E	R	-	-	-	-	-	-	HR	R	R	Northstar Seed
Heinrichs	Dry	E	S-M	97	112	95	97	98	104	R	-	-	Viterra/Proven
HybriForce-400	Hy.	E	R	106	-	-	-	-	-	HR	R	HR	BrettYoung
Magnum III	Fl.	G	R	105	107	-	101	-	-	R	MR	R	Seed-Link
Magnum 3801-Wet	Fl.	G	R	108	-	-	-	-	-	HR	R	HR	BrettYoung
Matrix	Std.	E	S	92	-	-	-	-	-	HR	MR	R	FarmPure Seeds, Peace Country Seeds
Multi5301	Std.	E	R	-	-	-	-	-	-	HR	R	R	Peace Country Seeds
Peace	Std.	E	M	91	96	95	94	95	100	S	-	-	Foster's Seed, Viterra/Proven
Pickseed 2065MF	Std.	E	R	108	-	-	105	-	-	HR	R	HR	Pickseed Canada
Pickseed 3006	Dry	E	M	111	-	-	103	-	-	HR	MR	MR	Pickseed Canada
Pickseed 8925MF	Fl.	G	R	111	-	-	105	-	-	HR	R	HR	Pickseed Canada
Proleaf	Std.	G	R	109	-	108	100	-	-	HR	R	HR	Hannas Seeds
Rambler	Dry	E	S	87	102	95	96	99	105	MR	-	-	Hannas Seeds
Rangelander	Dry	E	S	94	98	93	98	101	102	S	-	-	Foster's Seed, Hannas Seeds, SeCan
RHINO	Std.	E	R	-	-	-	-	-	-	HR	R	R	Northstar Seed
Roamer	Dry	E	S	90	-	95	100	106	98	R	-	-	AgPro
Runner	Dry	G	M	103	-	-	106	-	-	HR	S	S	Northstar Seed
Spredor 3	Dry	E	S	96	100	-	101	-	-	HR	MR	MR	Viterra/Proven
Spredor 4	Dry	E	M	110	-	-	98	-	-	HR	HR	HR	Viterra/Proven
Starbuck	Fl.	E	E	101	-	-	-	-	-	HR	R	HR	Pickseed Canada
Steak	Fl.	G	M-R	104	-	-	-	96	-	HR	HR	HR	Pickseed Canada
STEALTH SF	Fl.	E	R	119	-	-	-	95	-	HR	HR	HR	Northstar Seed
Survivor	Fl.	G	R	-	-	-	-	-	-	HR	R	HR	BrettYoung
TOPHAND	Std.	E	R	111	-	-	-	-	-	HR	HR	HR	Northstar Seed
Vernal	Std.	G	M	97	-	92	99	-	98	R	-	-	Public
630	Fl.	G	R	109	114	-	105	-	-	HR	MR	R	Seed-Link
53Q60	Std.	G	M	112	-	-	92	-	-	HR	R	HR	Pioneer Hi-Bred
54Q25	Std.	E	M	118	-	-	-	-	-	HR	HR	HR	Pioneer Hi-Bred
54V46	Std.	E	M	102	-	-	-	100	-	R	HR	HR	Pioneer Hi-Bred
54V54	Std.	E	M	108	-	-	-	-	-	HR	HR	HR	Pioneer Hi-Bred

1 Type identified as Std.=Standard, Fl.=Flemish, better regrowth but less hardy, Sib.=Siberian, Dry = Dryland, Hy.=Hybrid

2 Hardiness rated as E=excellent, G=good, F=fair, P=poor

3 Regrowth is rated VS=very slow, S=slow, M=medium or R=rapid

4 Resistance is rated HR=highly resistant, MR=moderately resistant, R=resistant and S=susceptible, BW=Bacterial wilt, VW=Verticillium wilt, PRR=Phytophthora root rot

5 Resistance to bacterial wilt is important mainly in irrigated areas

**Adapted to areas:** 1,2,3,4,5 & irrigation. Well adapted to a wide range of conditions, suitable for hay and pasture, yields reduced at pH below 6.0

- Denotes insufficient data (less than 3 test years from 2 locations).

# A L F A L F A

Yield comparison as % of Beaver

Variety	Irrigation			Area 1		Area 2		
	Bow Island	Brooks	Lethbridge	Brooks	Oyen	Lethbridge	Provost	Standard
AC Blue J	107	106	104	94	109	103	-	86
AC Caribou	104	107	-	110	98	-	102	94
AC Grazeland Br.	99	-	106	-	-	99	-	-
AC Longview	106	110	120	-	-	116	-	-
Algonquin	99	100	105	113	89	95	106	103
AmeriStand 201+Z	111	-	99	-	-	124	-	-
Anik	-	-	58	62	-	41	59	79
Approved	-	-	116	-	-	123	-	-
Atomic	112	-	112	-	-	117	-	-
Barrier	103	105	110	-	-	113	-	-
Beaver	100	100	100	100	100	100	100	100
Convoy	110	-	-	-	-	-	-	-
Dakota	-	107	104	-	-	121	-	-
Dalton	-	105	119	-	-	79	-	-
Equinox	115	-	-	-	-	-	-	-
Forecast 1001	110	102	108	-	-	-	-	-
Gala	107	-	109	-	-	-	-	-
HayGrazer	-	-	103	-	-	106	-	-
Heinrichs	95	96	98	121	103	88	98	104
HybriForce-400	106	102	111	-	-	-	-	-
Magnum III	107	104	-	117	97	-	-	100
Magnum 3801-Wet	109	104	110	-	-	-	-	-
Matrix	93	89	95	-	-	-	-	-
Multi5301	-	-	102	-	-	113	-	-
Peace	96	96	88	100	94	92	92	98
Pickseed 2065MF	111	103	112	-	-	-	-	-
Pickseed 3006	110	-	112	-	-	101	-	-
Pickseed 8925MF	116	106	-	-	-	110	-	-
Proleaf	115	98	114	93	-	123	-	107
Rambler	82	89	87	100	105	90	97	102
Rangelander	92	97	92	103	92	87	91	103
RHINO	-	-	107	-	-	112	-	-
Roamer	-	101	87	-	-	79	-	106
Runner	104	102	-	79	-	-	-	106
Spredor 3	92	97	98	106	94	-	-	92
Spredor 4	115	-	104	-	-	113	-	-
Starbuck	-	102	100	-	-	102	-	-
Steak	-	106	102	-	-	107	-	-
STEALTH SF	-	116	122	-	-	-	-	-
Survivor	-	-	109	-	-	101	-	-
TOPHAND	106	109	118	-	-	109	-	-
Vernal	-	99	98	-	-	88	-	98
630	110	107	-	109	118	-	-	100
53Q60	114	-	109	-	-	133	-	-
54Q25	-	113	123	-	-	102	-	-
54V46	-	102	102	-	-	100	-	-
54V54	101	112	112	-	-	88	-	-
Yield of Beaver								
lb/ac	12690	12835	9790	4225	2195	8045	6140	4505
kg/ha	14210	14375	10960	4730	2460	9010	6875	5045

- Denotes insufficient data

# A L F A L F A

Yield comparison as % of Beaver

Variety	Area 3				Area 4			Area 5		
	Edmonton	Lacombe	Olds	Vegreville	Fort Kent	Lac La Biche	Westlock	Beaverlodge	Falher	Fort Vermilion
AC Blue J	-	96	103	99	95	-	99	-	-	-
AC Caribou	-	108	108	103	107	106	-	115	99	-
AC Grazeland Br.	110	-	111	-	-	-	-	-	-	-
AC Longview	-	98	-	-	-	-	-	-	-	-
Algonquin	105	102	96	110	100	107	-	103	99	96
AmeriStand 201+Z	-	101	-	96	-	-	-	-	-	-
Anik	-	96	95	73	81	106	-	97	-	83
Approved	-	97	-	-	-	-	-	-	-	-
Atomic	-	-	110	108	-	-	-	-	-	-
Barrier	-	-	-	-	-	-	-	91	-	-
Beaver	100	100	100	100	100	100	100	100	100	100
Convoy	-	-	106	-	-	-	-	-	-	-
Dakota	-	-	-	-	-	-	-	-	-	-
Dalton	-	-	-	-	94	-	98	-	-	-
Equinox	-	-	110	-	-	-	-	-	-	-
Forecast 1001	-	94	-	-	-	-	-	-	-	-
Gala	92	-	107	-	-	-	-	-	-	-
HayGrazer	-	94	-	-	-	-	-	-	-	-
Heinrichs	78	101	101	87	100	101	-	103	107	102
HybriForce-400	-	105	-	-	-	-	-	-	-	-
Magnum III	-	-	102	100	92	-	-	-	-	-
Magnum 3801-Wet	-	103	-	-	-	-	-	-	-	-
Matrix	-	92	-	-	-	-	-	-	-	-
Multi5301	-	88	-	-	-	-	-	-	-	-
Peace	102	95	92	88	92	108	-	101	97	101
Pickseed 2065MF	115	103	-	-	-	-	-	-	-	-
Pickseed 3006	103	-	97	105	-	-	-	-	-	-
Pickseed 8925MF	110	108	-	91	-	-	-	-	-	-
Proleaf	-	100	-	100	88	-	-	-	96	-
Rambler	87	96	100	101	94	111	102	103	96	113
Rangelander	89	100	101	102	101	115	98	103	101	-
RHINO	-	116	-	-	-	-	-	-	-	-
Roamer	-	100	-	-	105	112	-	98	-	98
Runner	-	106	-	106	94	-	-	-	98	-
Spredor 3	95	-	109	94	97	-	-	-	-	-
Spredor 4	-	99	-	96	-	-	-	-	-	-
Starbuck	-	-	-	-	-	-	-	-	-	-
Steak	-	-	-	-	100	-	93	-	-	-
STEALTH SF	-	-	-	-	102	-	87	-	-	-
Survivor	-	-	109	-	-	-	-	-	-	-
TOPHAND	-	92	-	-	-	-	-	-	-	-
Vernal	101	98	-	-	-	-	-	99	-	95
630	-	-	97	114	93	-	-	-	-	-
53Q60	-	89	-	95	-	-	-	-	-	-
54Q25	-	-	-	-	-	-	105	-	-	-
54V46	-	-	-	-	105	-	95	-	-	-
54V54	-	101	-	-	-	-	-	-	-	-
Yield of Beaver										
lb/ac	6385	7450	7405	5900	5610	4395	5320	2770	3145	5715
kg/ha	7150	8340	8295	6610	6280	4925	5955	3105	3525	6400

- Denotes insufficient data

## MEADOW BROMEGRASS

Yield comparison as % of Fleet

Variety	Irrigation				Area 1	Area 2			Area 3			
	Bow Island	Brooks	Lethbridge	Area Mean	Brooks	Provost	Standard	Area Mean	Lacombe	Olds	Vegreville	Area Mean
Fleet	100	100	100	100	100	100	100	100	100	100	100	100
Montana	–	105	103	104	–	–	–	–	–	–	–	–
Paddock	102	100	–	101	87	108	96	102	101	107	104	103
Yield of Fleet												
lb/ac	10170	12970	8985	11020	1985	3920	7750	5835	7260	4365	6965	6710
kg/ha	11390	14525	10060	12340	2225	4395	8680	6535	8130	4890	7800	7515

Variety	Area 4				Area 5			Distributor
	Fort Kent	Lac La Biche	Westlock	Area Mean	Beaverlodge	High Prairie	Area Mean	
Fleet	100	100	100	100	100	100	100	SeCan
Montana	–	–	–	–	–	–	–	Viterra/Proven
Paddock	104	116	107	110	110	101	105	FarmPure Seeds
Yield of Fleet								
lb/ac	4210	2835	5125	4320	3805	4705	4515	
kg/ha	4715	3175	5740	4840	4260	5270	5055	

**Adapted to areas:** 2,3,4,5 & irrigation. Palatable and well suited for pasture, good regrowth, some drought tolerance.

## INTERMEDIATE AND PUBESCENT WHEATGRASS

Yield comparison as % of Chief

Variety	Irrigation				Area 1	Area 2			
	Bow Island	Brooks	Lethbridge	Area Mean	Brooks	Lethbridge	Provost	Standard	Area Mean
Chief	100	100	100	100	100	100	100	100	100
Clarke	94	94	–	97	101	93	95	96	95
Greenleaf	93	96	96	95	114	87	84	90	87
Yield of Chief									
lb/ac	11195	15310	7200	9840	1580	4270	5330	8510	5625
kg/ha	12535	17150	8065	11020	1765	4785	5965	9530	6300

Variety	Area 3				Area 4			Distributor
	Lacombe	Olds	Vegreville	Area Mean	Fort Kent	Lac La Biche	Area Mean	
Chief	100	100	100	100	100	10	100	FarmPure Seeds
Clarke	98	111	97	104	98	86	94	BrettYoung
Greenleaf	94	114	87	98	94	89	88	Sunshine Seeds, Viterra/Proven
Yield of Chief								
lb/ac	10220	3940	7090	7745	1820	4040	3055	
kg/ha	11445	4410	7940	8675	2040	4525	3425	

**Adapted to areas:** 2,3,4,5 & irrigation. Palatable and well suited for pasture, good regrowth, some drought tolerance.

– Denotes insufficient data

## SMOOTH BROMEGRASS

Yield comparison as % of Carlton

Variety	Irrigation				Area 1	Area 2				Area 3					
	Bow Island	Brooks	Leth-bridge	Stand-ard	Area Mean	Oyen	Long-view	Provost	Stand-ard	Area Mean	Edmonton	La-combe	Olds	Vegre-ville	Area Mean
AC Rocket	–	113	100	–	107	–	–	–	–	–	–	–	–	–	–
Bravo	118	104	–	–	111	115	–	97	98	97	–	–	110	95	101
Carlton	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Magna	97	100	–	109	103	107	104	92	100	100	101	102	103	97	101
Manchar	123	104	–	110	110	104	97	97	97	97	–	101	106	92	98
Signal	97	99	–	99	99	104	103	99	97	99	101	100	105	109	103
Yield of Carlton															
lb/ac	8570	12665	9265	6315	10250	2225	11405	3860	6930	6660	9680	8200	6155	8915	8035
kg/ha	9600	14185	10375	7075	11480	2490	12775	4325	7765	7460	10840	9185	6890	9985	9000

Variety	Area 4				Area 5				Distributor
	Fort Kent	Lac La Biche	Westlock	Area Mean	Beaverlodge	Fort Vermilion	High Prairie	Area Mean	
AC Rocket	–	–	–	–	–	–	–	–	Viterra/Proven
Bravo	108	98	91	99	103	–	108	106	Pickseed Canada
Carlton	100	100	100	100	100	100	100	100	Public
Magna	112	100	103	105	96	106	114	104	FarmPure Seeds
Manchar	112	96	99	101	92	–	101	98	Public
Signal	111	101	115	107	93	109	109	103	Viterra/Proven
Yield of Carlton									
lb/ac	3355	3320	3560	3455	3765	5785	4900	4375	
kg/ha	3755	3720	3990	3870	4215	6480	5485	4900	

**Adapted to areas:** 2,3,4,5 & irrigation. Long-lived sod forming grass, well suited for hay, some drought tolerance.

**Remarks:** AC Rocket is a southern type; Bravo and Carlton are northern types; Magna, Manchar and Signal are intermediate northern-southern types.

## CRESTED WHEATGRASS

Yield comparison as % of Kirk

Variety	Irr.	Area 1			Area 2				Area 3	Distributor
	Lethbridge	Brooks	Oyen	Area Mean	Lethbridge	Provost	Standard	Area Mean	Lacombe	
AC Goliath	103	–	–	–	99	–	–	–	95	SeCan
Fairway	–	71	92	84	–	93	90	94	104	Public
Kirk	100	100	100	100	100	100	100	100	100	SeCan
Nordan	–	98	102	100	–	105	93	97	–	Public
Yield of Kirk										
lb/ac	9645	3365	2060	2500	5050	4065	4810	4990	7665	
kg/ha	10805	3770	2310	2800	5655	4555	5385	5590	8585	

**Adapted to areas:** 1 & 2. Easy to establish, useful for hay and to some extent for pasture, very drought tolerant.

– Denotes insufficient data

## ORCHARD GRASS

Yield comparison as % of Kay

Variety	Irrigation				Area 3				Area 5			Distributor
	Bow Island	Brooks	Lethbridge	Area Mean	Ellerslie	Lacombe	Olds	Area Mean	Falher	High Prairie	Area Mean	
AC Nordic	99	99	–	99	99	108	100	101	100	88	94	BrettYoung
AC Splendor	97	98	–	98	96	109	109	103	97	88	92	Viterra/Proven
Arctic	90	100	–	95	93	115	116	107	102	84	93	Northstar Seed
Early Arctic	–	100	110	105	–	–	–	–	–	–	–	Northstar Seed
Kay	100	100	100	100	100	100	100	100	100	100	100	Sunshine Seeds
OKAY	99	99	–	99	94	98	101	98	105	93	99	Pickseed Canada
Yield of Kay												
lb/ac	9695	11690	7945	9575	6860	5700	6350	6100	3490	3665	3865	
kg/ha	10855	13090	8895	10725	7680	6385	7110	6830	3910	4105	4330	

**Adapted to areas:** 3,4,5 & irrigation. Used for hay or pasture, regrows quickly and is highly palatable, may winterkill under severe conditions.

## REED CANARY GRASS

Yield comparison as % of Venture

Variety	Area 3				Area 4				Distributor
	Lacombe	Olds	Vegreville	Area Mean	Fort Kent	Lac La Biche	Westlock	Area Mean	
Bellevue	115	–	94	105	114	–	103	108	Pickseed Canada
Palaton	112	104	98	103	99	107	99	101	Hannas Seeds, FarmPure Seeds, Seed-Link
Rival	106	92	88	93	90	84	93	90	BrettYoung
Venture	100	100	100	100	100	100	100	100	Seed-Link
Yield of Venture									
lb/ac	7700	6450	9175	8125	1990	2755	3455	2635	
kg/ha	8625	7225	10275	9100	2225	3085	3870	2950	

**Adapted to areas:** 2,3,4 & 5. Select varieties with low levels of the alkaloid tryptamine, best adapted to wet areas.

## TALL FESCUE

Yield comparison as % of Courtenay

Variety	Irrigation			Area 2	Area 3			Distributor
	Bow Island	Brooks	Area Mean	Standard	Olds	Vegreville	Area Mean	
Alta	96	86	90	78	94	91	92	Public
Barcel	80	78	79	74	92	74	83	Viterra/Proven
Courtenay	100	100	100	100	100	100	100	Northstar Seed
Yield of Courtenay								
lb/ac	11270	12660	12175	5790	8030	6670	7115	
kg/ha	12625	14180	13635	6485	8995	7470	7970	

**Adapted to areas:** 1,2 & irrigation. Wide range of soil adaptability, best use is as pasture, endophytes can be a problem.

– Denotes insufficient data

## BIRD'S-FOOT TREFOIL

Yield comparison as % of Leo

Variety	Irrigation			Area 4	Distributor
	Bow Island	Lethbridge	Area Mean	Fort Kent	
AC Langille	103	117	110	85	Viterra/Proven
Leo	100	100	100	100	Public
Yield of Leo					
lb/ac	5940	7700	7220	2900	
kg/ha	6650	8625	8085	3250	

**Adapted to areas:** 3,4 & 5. Fair hardiness, non-bloating, most useful for pasture, not competitive.

## CICER MILKVETCH

Yield comparison as % of Oxley

Variety	Irrigation			Area 3			Distributor
	Bow Island	Lethbridge	Area Mean	Lacombe	Vegreville	Area Mean	
AC Oxley II	123	135	129	117	141	129	BrettYoung, FarmPure Seeds
Oxley	100	100	100	100	100	100	BrettYoung
Windsor	131	129	130	119	154	137	Viterra/Proven
Yield of Oxley							
lb/ac	6425	5860	6330	6305	3065	4275	
kg/ha	7195	6565	7090	7060	3435	4790	

**Adapted to areas:** 2,3,4,5 & irrigation. Slow to establish, seed should be scarified, hardy, non-bloating, most useful for pasture.

## RED CLOVER

Yield comparison as % of Altaswede

Variety	Type †	Hardiness	Irrigation			Area 3			
			Bow Island	Brooks	Area Mean	Camrose	Lacombe	Vegreville	Area Mean
			Yield of Altaswede	SC	G				
lb/ac			11815	8520	8805	6950	7380	3435	5800
kg/ha			13230	9540	9860	7785	8270	3850	6495

Variety	Area 4			Area 5					Distributor
	Fort Kent	Westlock	Area Mean	Beaverlodge	Falher	Fosters	Fort Vermilion	Area Mean	
Yield of Altaswede									Pickseed Canada
lb/ac	4420	4230	3810	3605	2885	3680	4310	3660	
kg/ha	4950	4735	4265	4040	3230	4120	4830	4100	

† SC = single cut

**Adapted to areas:** 3,4 & 5. Single-cut types are hardier than double-cut types, short-lived.

## ALSIKE CLOVER

Yield comparison as % of Aurora

Variety	Irrigation			Area 3			Area 4	Area 5			Distributor
	Bow Island	Brooks	Area Mean	Lacombe	Vegreville	Area Mean	Fort Kent	Beaverlodge	Fosters	Area Mean	
Aurora	100	100	100	100	100	100	100	100	100	100	BrettYoung
Dawn	93	102	97	100	111	104	105	123	90	103	Pickseed Canada
Yield of Aurora											
lb/ac	5960	6370	6095	7835	5450	6445	2530	3805	1505	2425	
kg/ha	6675	7135	6825	8775	6105	7215	2830	4265	1685	2715	

**Adapted to areas:** 3,4 & 5. Diploids are hardier than tetraploids, short-lived, suitable for hay and pasture, tolerates some flooding and acidity.

– Denotes insufficient data

## ALTAI WILD RYE

Variety	Area 1	Area 2				Area 3	Area 4			Distributor
	Brooks	Lethbridge	Provost	Standard	Area Mean	Vegreville	Fort Kent	Westlock	Area Mean	
Eejay	95	110	97	100	105	111	116	113	117	BrettYoung
Prairieland	100	100	100	100	100	100	100	100	100	Sunshine Seeds
Yield of Prairieland										
lb/ac	1345	3705	2940	5915	3995	7245	2070	1490	1970	
kg/ha	1510	4150	3295	6620	4470	8115	2315	1665	2205	

**Adapted to areas:** 1 & 2. Best for pasture, can extend grazing season, deep rooted, slow to establish.

## DAHURIAN WILD RYE

Yield comparison as % of James

Variety	Area 1	Area 2				Area 3	Area 4			Distributor
	Brooks	Lethbridge	Provost	Standard	Area Mean	Vegreville	Fort Kent	Westlock	Area Mean	
Arthur	159	96	114	126	112	102	103	102	104	FarmPure Seeds
James	100	100	100	100	100	100	100	100	100	SeCan
Yield of James										
lb/ac	755	3665	4035	6860	4855	6780	3185	2560	3045	
kg/ha	845	4105	4515	7685	5435	7590	3565	2865	3410	

**Adapted to areas:** 1,2,3,4 & 5. Short-lived, used in mixed seedings as a supplement to early production of slower growing, longer-lived perennials.

## RUSSIAN WILD RYE

Yield comparison as % of Swift

Variety	Area 1	Area 2				Area 3	Area 4			Distributor
	Brooks	Lethbridge	Provost	Standard	Area Mean	Vegreville	Fort Kent	Westlock	Area Mean	
Mayak	67	90	103	103	97	113	115	98	113	Public
Swift	100	100	100	100	100	100	100	100	100	SeCan
Tetracan	67		108	98	103	116	87	136	112	SeCan
Yield of Swift										
lb/ac	2025	3070	1785	6520	3680	5990	1605	1740	1905	
kg/ha	2265	3435	2000	7305	4120	6710	1800	1945	2130	

**Adapted to areas:** 1 & 2. Best for pasture use, rapid regrowth after summer and fall rains, very drought tolerant.

– Denotes insufficient data

# TIMOTHY

Yield comparison as % of Climax

Variety	Irrigation				Area 3				Area 4			
	Bow Island	Brooks	Lethbridge	Area Mean	Lacombe	Olds	Vegreville	Area Mean	Fort Kent	Lac La Biche	Westlock	Area Mean
Alma	83	88	–	86	–	100	–	–	–	–	105	–
Bottnia II	89	88	–	89	–	102	96	99	–	112	–	–
Champ	105	101	–	102	93	103	93	98	–	90	92	93
Climax	100	100	100	100	100	100	100	100	100	100	100	100
Colt	108	115	–	111	–	110	–	–	–	–	105	–
EXPRESS	–	101	98	99	101	–	100	100	–	–	–	–
Glacier	–	108	92	100	–	–	95	–	94	–	102	98
Grindstad	108	–	98	103	112	–	–	–	–	–	–	–
Hokuo	107	106	–	107	–	103	–	–	–	–	99	–
JOLIETTE	108	104	112	108	107	97	–	102	–	–	103	–
Jonatan	–	90	107	99	–	–	97	–	96	–	112	104
Promesse	96	92	–	94	–	96	–	–	–	–	110	–
Richmond	107	103	–	103	110	100	97	100	–	86	–	–
SAGUENAY	103	103	–	103	–	103	–	–	–	–	89	–
TimPro	–	93	80	85	103	–	–	–	–	–	–	–
Tuukka	–	–	81	–	–	116	–	–	–	–	–	–
Yield of Climax												
lb/ac	8440	9425	6050	8100	6160	6640	5045	5565	4660	2790	4225	3930
kg/ha	9455	10520	6775	9070	6895	7440	5650	6235	5220	3125	4735	4400

Variety	Area 5						Distributor
	Beaverlodge	Falher	Fosters	Fort Vermilion	High Prairie	Area Mean	
Alma	88	–	–	–	99	97	Hannas Seed
Bottnia II	105	128	109	130	96	114	Viterra/Proven
Champ	106	–	97	110	104	100	Public
Climax	100	100	100	100	100	100	Public
Colt	–	100	–	–	81	90	Viterra/Proven
EXPRESS	–	–	–	–	–	–	Northstar Seed
Glacier	–	–	–	–	–	–	Pickseed Canada
Grindstad	–	–	–	–	–	–	Viterra/Proven
Hokuo	109	89	–	–	96	93	Seed-Link, Johnson Seeds
JOLIETTE	–	119	–	–	96	108	FarmPure Seeds
Jonatan	–	–	–	–	–	–	FarmPure Seeds
Promesse	–	109	–	–	98	104	BrettYoung
Richmond	100	97	97	99	97	99	Pickseed Canada
SAGUENAY	–	119	–	–	108	113	Seed-Link
TimPro	–	90	–	–	–	–	Pickseed Canada
Tuukka	–	–	–	–	–	–	BrettYoung
Yield of Climax							
lb/ac	3795	2970	4060	3915	4450	3690	
kg/ha	4250	3325	4550	4385	4985	4135	

**Adapted to areas:** 2,3,4,5 & irrigation. Well suited for hay and to some extent pasture, low tolerance to drought.

– Denotes insufficient data

## LEGUME AND GRASS SPECIES FOR ALBERTA

Kind	Adapted to areas	Comments
Alfalfa	1,2,3,4,5 & Irrig.	Well adapted to a wide range of conditions, suitable for hay and pasture, yields reduced at pH below 6.0
Alsike Clover	3,4 & 5	Diploids are hardier than tetraploids, short-lived, suitable for hay and pasture, tolerates some flooding and acidity
Red Clover	3,4 & 5	Single-cut types are hardier than double-cut types, short-lived, suitable for hay and pasture
Cicer Milkvetch	2,3,4,5 & Irrig.	Slow to establish, seed should be scarified, hardy, non-bloating, most useful for pasture
Sainfoin	2 & Irrig.	Moderately hardy, fair regrowth, non-bloating
Sweetclover	1,2,3,4 & 5	Select low coumarin types for forage, biennial
Bird's-foot Trefoil	3,4 & 5	Fair hardiness, non-bloating, most useful for pasture, not competitive
Kentucky Bluegrass	3,4,5 & Irrig.	Suitable as pasture, palatable and very grazing-tolerant, very long-lived
Meadow Bromegrass	2,3,4,5 & Irrig.	Palatable and well suited for pasture, good regrowth, some drought tolerance
Smooth Bromegrass	2,3,4,5 & Irrig.	Long-lived sod forming grass, well suited for hay, some drought tolerance
Reed Canarygrass	2,3,4 & 5	Select varieties with low levels of the alkaloid tryptamine, best adapted to wet areas
Creeping Red Fescue	3,4 & 5	Strongly creeping, excellent seeding vigor, suitable for pasture
Meadow Foxtail	3,4 & 5	Hardy, adapted to cool, moist conditions, flood tolerant, best used for pasture, some palatability problems as grass matures
Tall Fescue	1,2 & Irrig.	Wide range of soil adaptability, best use is as pasture, endophytes can be a problem
Orchard Grass	3,4,5 & Irrig.	Used for hay or pasture, regrows quickly and is highly palatable, may winterkill some years
Timothy	2,3,4,5 & Irrig.	Well suited for hay and to some extent pasture, low tolerance to drought
Crested Wheatgrass	1 & 2	Easy to establish, useful for hay and to some extent for pasture, very drought tolerant
Intermediate/ Pubescent Wheatgrass	2,3,4,5 & Irrig.	Hardy, closely related grasses adapted to the same or drier conditions as smooth bromegrass, suitable for hay and pasture
Northern Wheatgrass	1,2,3,4 & 5	Native, extremely drought tolerant and winter hardy
Slender Wheatgrass	1,2,3,4,5 & Irrig.	Native, leafy, good in short rotations
Tall Wheatgrass	2,3,4,5 & Irrig.	Hardy, salt tolerant, fair hay quality
Western Wheatgrass	1,2 & 3	Native, best for reclamation, rapid creeping roots, can be used for hay or pasture
Altai Wildrye	1 & 2	Best for pasture use, can extend grazing season, deep rooted, slow to establish
Dahurian Wildrye	1,2,3,4 & 5	Short-lived, used in mixed seedings as a supplement to early production of slower-growing longer-lived perennials
Russian Wildrye	1 & 2	Best for pasture use, rapid regrowth after summer and fall rains, very drought tolerant

## DISTRIBUTOR INFORMATION

Company	Telephone	E-mail	Website
AgPro	1-800-752-0795		www.swp.com
BrettYoung	780-985-7300	paul.sinkevich@brettyoung.ca	www.brettyoung.ca
Dore Seeds	780-623-7069	hyoder@telusplanet.net	
FarmPure Seeds	1-866-791-4522	emeyers@farmpureseeds.com	www.farmpureseeds.com
Foster's Seed & Feed Ltd.	780-354-2107	doug.thiessen@fosterseed.com	www.fosterseed.com
Hannas Seeds Ltd.	1-800-661-1529	jennifer@hannasseeds.com	www.hannasseeds.com
Peace Country Seeds/ Interlake Forage Seeds	780-338-2934	plundgard@telus.net	www.interlakeforageseeds.com
Johnson Seeds	204-376-5228	info@johnsonseeds.com	www.johnsonseeds.com
Sunshine Seeds Ltd./ Ken Long Forage Seed	403-758-3444	gmcard@theboss.net	coming soon
Northstar Seed Ltd.	1-800-805-0765	info@northstarseed.com	www.northstarseed.com
PICKSEED CANADA Inc.	1-800-265-3925	kdunse@pickseed.com	www.pickseed.com
Pioneer Hi-Bred Ltd.	403-346-6031		www.pioneer.com/Canada
SeCan Assoc.	1-800-665-7333	seed@secan.com	www.secan.com
Seed-Link Inc.	705-324-0544	sloffice@seed-link.ca	www.seed-link.ca
Viterra/Proven Seed	1-800-661-3334	perry.ross@viterra.ca	www.viterra.ca

### Forage Helpline – Ag-Info Centre call toll-free 310-FARM (3276)

**Forage references:**

How to Purchase High Quality Forage Seed – FS120/45-1

Perennial Forage Establishment in Alberta – FS120/22-3

These publications can be obtained from the Alberta Agriculture Publications Office. Call the toll-free line at 1-800-292-5697.

Other forage species and new varieties not listed in this publication are sometimes seeded by producers in Alberta. These species and varieties are not included by the Alberta Forage Variety Committee due to a lack of yield data. Variety information is also available in **seed.ab.ca** magazine, Alberta's official seed guide of the Alberta Seed Industry Partnership (Canadian Seed Growers' Association, Alberta Branch, and the Association of Alberta Co-op Seed Cleaning Plants).

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