

2019 Regional Silage Variety Trials

AN IMPORTANT COMPONENT of the annual feed supply for Alberta's cattle producers comes in the form of silage, green feed and swath grazing. The selection of annual crop varieties that produce high forage yield and/or nutritional quality can be a significant factor influencing profitability.

Participating Organizations

- Battle River Research Group, Forestburg, Alta. (780) 582-7308
- Chinook Applied Research Association, Oyen, Alta. (403) 664-3777
- Farming Smarter, Lethbridge, Alta. (403) 317-0022
- Gateway Research Organization, Westlock, Alta. (780) 349-4546
- Lakeland Agricultural Research Association, Bonnyville, Alta. (780) 826-7260
- Mackenzie Applied Research Association, Fort Vermilion, Alta. (780) 927-3776
- North Peace Applied Research Association, Manning, Alta. (780) 836-3354
- Peace Country Beef and Forage, Fairview, Alta. (780) 835-6799

- Smoky Applied Research and Demonstration Association, Falher, Alta. (780) 837-2900
- West Central Forage Association, Entwistle, Alta. (780) 727-4447

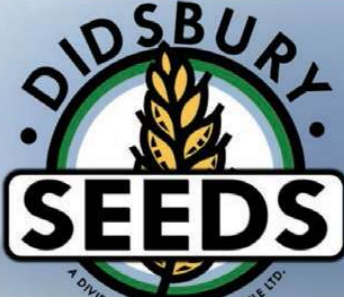
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Trial Information

Yield and feed quality evaluations on varieties of barley, oat and triticale commonly used for silage, green feed and swath grazing have been conducted by several applied research associations at sites across Alberta.

Several pea/cereal mixes have been included in the trials. Growing season conditions in 2019 ranged from below average to excessive moisture at the trial sites reporting data.




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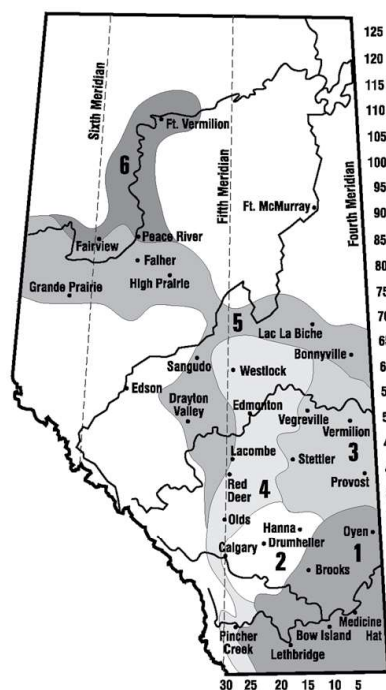
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The cereal trials, (barley, oats and triticale), were planted at recommended seeding density rates with recommended fertility. The pea/cereal mixture trials were conducted with the intent of increasing the nutritional value of the silage while potentially reducing future nitrogen requirements. These pea/cereal plots were seeded with 55 kg/ha (50 lbs/ac) of 11-52-0-0. The pea and cereal varieties were seeded at 75 and 50 percent of their recommended seeding rates, respectively. These mixes were harvested when the cereal was at the soft dough stage.

Data submitted in 2019 was summarized by crop or crop mixture. Information collected since 2012 has been included in a separate summary below each table. The information is



presented as compared to the check variety (in bold). Yield of the test varieties/mixtures are expressed as wet tons/acre (ie. 65 per cent moisture which is typical of silage production). Data sets which did not meet minimum quality and experimental standards were excluded.

Test Yield Categories

Low, Medium and High Test Yield Categories (tons per acre) have been defined for each variety and mix. This allows for comparison with the check when growing conditions, management regimes and/or target yields are anticipated to be of low, medium or high productivity. Caution is advised when interpreting the data with respect to new varieties that have not been fully tested. It should also be noted that the indicated yield levels are those from small plot trials, which can be 15 to 20 per cent higher than yields expected under commercial production. When considering a variety for use alone or in a mixed silage blend, be sure to consider the disease resistance and other agronomic attributes that may also affect productivity.

Nutritional Analysis

Nutrition information was assessed using NIRS for macro-nutrient assessments and wet chemistry for the micro-nutrients.

AAC Synergy Barley	AAC Redberry CWRS—NEW	AAC Penhold CPSR
Sirish Barley—NEW	AAC Elie CWRS	AAC Lacombe Yellow Peas
AAC Connect Barley—NEW	AAC Brandon CWRS	AAC Carver Yellow Peas—NEW
CDC Copeland Barley	AAC Crossfield CPSR—NEW	CDC Amarillo Yellow Peas
Canterra Canola Seed	AAC Goodwin CPSR—NEW	CDC Limerick Green Peas

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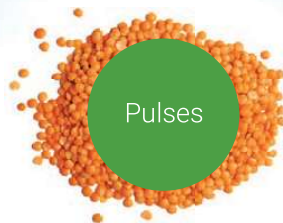
BARLEY

Variety	Overall Station Years of Testing	Overall Average Yield	Area:					Yield Category:			Nutritional Data:						
								Low < 9.0 (t/ac)	Medium 9.1 12.0 (t/ac)	High > 12.1 (t/ ac)	CP (%)	TDN (%)	Ca (%)	P (%)	K (%)	Mg (%)	
			2	3	4	5	6										
Varieties tested in the 2019 trials (Yield and agronomic data only directly comparable to CDC Austenson)																	
CDC Austenson (t/ac)		10.6	9.6	12.1	12.9	11.1	8.2	7	11.2	15.6	10.2	67	0.3	0.2	1.5	0.2	
CDC Austenson	54	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
AB Advantage	9	104	103	XX	96	99	111	106	102	101	98	101	104	114	102	110	
AB Cattlelac	13	100	94	XX	90	99	105	101	103	94	104	100	138	101	117	123	
Altorado	35	102	101	92	99	102	107	106	98	101	101	100	105	105	103	98	
Amisk	42	93	99	92	96	90	95	93	94	92	104	102	133	105	106	110	
Canmore	35	100	104	99	92	101	100	102	98	99	101	99	118	104	99	104	
CDC Bow	9	103	103	XX	100	101	107	105	103	98	105	100	129	112	100	117	
CDC Coalition	46	95	98	93	94	92	102	99	92	94	102	101	101	111	104	101	
CDC Cowboy	42	100	101	103	102	101	99	100	99	102	97	99	115	113	109	115	
CDC Maverick	44	102	104	96	96	103	106	105	101	100	97	99	117	112	95	115	
Claymore	35	101	105	102	98	103	98	102	97	103	96	97	124	100	100	107	
SR17515	9	103	106	XX	96	94	114	102	107	97	101	101	114	139	108	121	
SR17519	9	96	97	XX	94	88	103	92	101	95	103	100	121	123	115	122	
Sundre	46	94	99	93	89	91	99	93	96	94	102	99	133	105	112	113	
TR17639	9	103	102	XX	106	100	109	101	108	101	102	100	110	112	97	106	
Previously tested varieties																	
Busby	19	93	91	98	71	96	88	86	95	97	105	99	128	100	100	103	
Gadsby	33	99	95	106	94	99	100	101	101	98	96	100	127	100	96	101	
CDC Meredith	22	100	108	106	93	98	103	101	102	100	95	98	99	101	102	94	
Champion	26	102	103	97	100	103	102	106	99	101	99	101	105	99	104	99	
Chigwell	23	92	80	95	87	91	96	94	91	88	102	100	158	99	105	118	
Conlon	31	87	83	95	86	85	89	84	88	90	98	102	129	112	99	104	
Muskwa	13	90	101	93	XX	86	91	86	91	91	114	100	167	107	121	127	
Ponoka	19	96	90	100	100	96	95	96	94	97	101	99	148	103	104	115	
Ranger	23	94	101	99	XX	94	88	93	96	87	100	99	157	104	121	126	
Seebe	19	96	95	103	92	95	95	95	96	97	109	96	136	109	113	103	
Trochu	18	88	XX	91	73	91	85	82	89	92	103	101	139	107	109	119	
Vivar	19	93	95	99	78	92	93	90	98	93	108	100	144	99	104	123	
Xena	19	95	87	101	84	92	101	96	90	95	106	99	111	105	102	106	

Remarks: For explanations on data summarization methods and other information, please see the comments at the beginning of this publication. The yield comparison is expressed in several ways. First, overall actual yield of the standard check in t/ac along with the number of station years of testing. Second, actual yield of the standard check in each growing area. Third, average yield of each variety is expressed in % relative to the standard check. And finally, yield performance is also expressed on the basis of environmental productivity (Yield Test Categories of Low, Medium and High). Consistent performance over all Yield Test Categories indicates that a variety may have good yield stability over a wide range of environments. XX - Insufficient data to describe.

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OAT

Variety	Overall Station Years of Testing	Overall Average Yield	Area:					Yield Category:			Nutritional Data:					
								Low < 8.0 (t/ac)	Medium 8.1 10.0 (t/ac)	High > 10.1 (t/ac)	CP (%)	TDN (%)	Ca (%)	P (%)	K (%)	Mg (%)
			2	3	4	5	6									
Varieties tested in the 2019 trials (Yield and agronomic data only directly comparable to CDC Baler)																
CDC Baler (t/ac)		10.4	8.7	10.2	14.4	11.1	7.3	5.7	9.7	13.9	9.6	61.4	0.3	0.2	1.9	0.2
CDC Baler	49	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
AC Juniper	39	96	99	100	94	88	105	107	85	92	101	102	95	106	101	103
AC Morgan	48	100	105	100	94	97	107	104	95	99	100	102	102	113	99	97
CDC Haymaker	44	99	107	94	99	98	98	101	92	99	100	101	100	103	101	100
CDC Nasser	7	101	112	XX	XX	99	95	104	XX	98	94	102	96	89	100	105
CDC Seabiscuit	22	98	95	99	107	98	97	95	96	101	101	102	93	101	95	97
CDC SO1	49	96	88	101	90	95	100	99	89	96	101	102	96	100	97	103
Murphy	43	103	108	102	101	101	104	106	103	101	94	97	97	98	101	100
ORe3542M	11	100	98	97	96	96	110	101	XX	99	107	105	87	111	93	96
Previously tested varieties																
AC Mustang	39	98	99	97	95	99	99	96	99	99	101	99	99	103	101	99
Derby	6	96	100	XX	106	89	94	89	93	101	89	100	98	99	100	110
Everleaf	5	94	XX	113	106	72	XX	108	76	67	96	98	105	97	110	92
Foothills	21	99	103	95	101	99	103	99	96	102	99	98	103	103	102	100
Jordan	20	100	107	92	88	100	121	102	102	96	97	100	96	105	97	112
Waldern	36	102	98	104	98	100	110	104	106	99	95	99	107	101	95	99

Remarks: For explanations on data summarization methods and other information, please see the comments at the beginning of this publication. The yield comparison is expressed in several ways. First, overall actual yield of the standard check in t/ac along with the number of station years of testing. Second, actual yield of the standard check in each growing area. Third, average yield of each variety is expressed in % relative to the standard check. And finally, yield performance is also expressed on the basis of environmental productivity (Yield Test Categories of Low, Medium and High). Consistent performance over all Yield Test Categories indicates that a variety may have good yield stability over a wide range of environments. XX - Insufficient data to describe.



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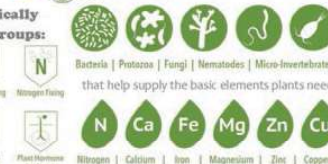


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PULSE MIXTURES

Variety	Overall Station Years of Testing	Overall Average Yield	Area:			Yield Category:			Nutritional Data:					
			2	5	6	Low < 8.0 (t/ac)	Medium 8.1 10.0 (t/ac)	High > 10.1 (t/ac)	CP (%)	TDN (%)	Ca (%)	P (%)	K (%)	Mg (%)
Varieties tested in the 2019 trials (Yield and agronomic data only directly comparable to CDC Austenson)														
CDC Austenson (t/ac)		9	5.4	9.2	8.2	6.7	8.8	11.8	10	65.8	0.3	0.2	1.6	0.2
CDC Austenson	17	100	100	100	100	100	100	100	100	100	100	100	100	100
CDC Baler	17	103	99	101	108	93	113	99	99	96	107	108	121	114
Taza	17	102	104	95	113	100	106	92	96	96	77	115	98	82
CDC Austenson/CDC Jasper	5	96	100	94	95	90	114	97	119	96	174	109	104	123
CDC Austenson/CDC Meadow	17	100	100	98	103	98	104	96	113	91	184	105	110	139
CDC Baler/CDC Jasper	5	90	81	89	83	78	107	107	123	94	173	114	130	139
CDC Baler/CDC Meadow	17	100	97	99	103	88	113	93	111	97	170	111	116	136
Taza/CDC Jasper	5	95	93	107	77	85	119	90	115	94	145	121	102	104
Taza/CDC Meadow	17	99	98	96	104	93	110	81	112	96	176	114	100	123
Previously tested varieties														
CDC Austenson/CDC Horizon	5	105	109	100	107	108	102	XX	101	97	156	102	111	133
CDC Austenson/CDC LeRoy	7	88	XX	88	89	104	87	82	124	98	186	119	114	129
CDC Baler/CDC Horizon	5	101	111	102	96	113	94	XX	109	94	173	101	123	145
CDC Baler/CDC LeRoy	7	97	XX	97	98	75	107	90	105	96	136	108	121	111
Taza/CDC Horizon	5	108	96	105	119	104	111	XX	116	96	179	106	106	137
Taza/CDC LeRoy	7	96	XX	89	106	96	104	80	114	96	171	112	98	118

Remarks: For explanations on data summarization methods and other information, please see the comments at the beginning of this publication. The yield comparison is expressed in several ways. First, overall actual yield of the standard check in t/ac along with the number of station years of testing. Second, actual yield of the standard check in each growing area. Third, average yield of each variety is expressed in % relative to the standard check. And finally, yield performance is also expressed on the basis of environmental productivity (Yield Test Categories of Low, Medium and High). Consistent performance over all Yield Test Categories indicates that a variety may have good yield stability over a wide range of environments. XX - Insufficient data to describe.

ALECT SEEDS

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CDC Bow Barley

CDC Copeland Barley

CDC Austenson Barley

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CDC Amarillo Peas

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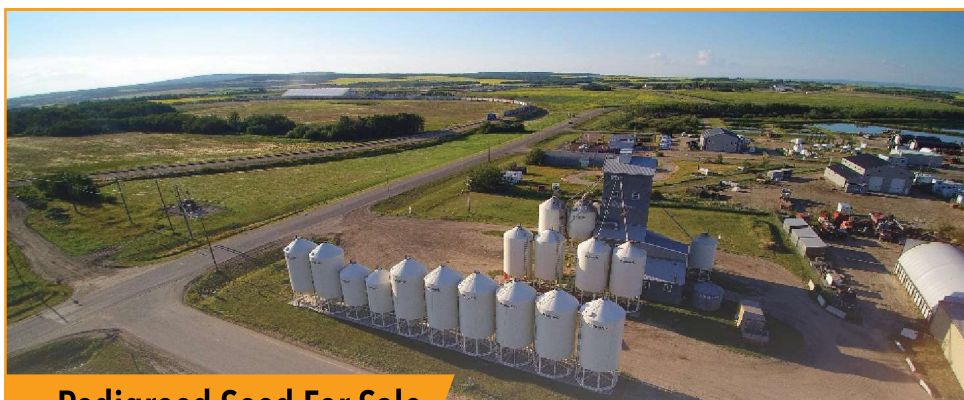
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TRITICALE

Variety	Overall Station Years of Testing	Overall Average Yield	Area:					Yield Category:			Nutritional Data:					
								Low < 10.0 (t/ac)	Medium 10.1 12.5 (t/ac)	High > 12.6 (t/ac)	CP (%)	TDN (%)	Ca (%)	P (%)	K (%)	Mg (%)
			2	3	4	5	6									
Varieties tested in the 2019 trials (Yield and agronomic data only directly comparable to Taza)																
Taza (t/ac)		10.7	10.4	11.7	13.2	10.6	9.1	7	11.3	15.3	9.1	63	0.2	0.2	1.4	0.1
Taza	56	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
AAC Awesome	7	99	93	XX	XX	100	88	90	99	123	105	102	96	104	104	118
AAC Delight	7	103	92	XX	XX	98	106	96	103	127	109	102	87	117	83	105
AC Andrew	7	96	79	XX	XX	92	97	87	95	121	103	99	96	94	122	113
Bunker	48	100	96	91	107	101	100	100	98	100	103	99	107	96	97	115
Sadash	15	99	102	102	109	91	102	94	103	100	102	99	91	96	113	106
Sunray	49	101	98	99	103	101	102	100	102	102	105	103	106	103	104	109
T256	12	101	92	98	96	101	101	101	98	104	101	101	101	104	93	122
Previously tested varieties																
AAC Chiffon	15	104	119	111	118	92	107	108	103	103	107	100	87	94	109	111
AAC Innova	8	104	121	119	123	83	102	95	107	107	108	100	87	106	109	107
AAC Ryley	8	97	108	104	87	87	110	86	100	101	103	100	95	106	89	117
AC Ultima	7	103	104	98	120	100	XX	109	100	104	110	100	101	93	97	122
Pasteur	8	94	110	96	97	84	103	91	99	91	107	103	96	99	107	117
Pronghorn	21	102	107	103	114	99	101	108	99	103	103	100	102	99	109	106
Tyndal	48	100	101	102	107	99	98	102	99	100	103	100	101	103	96	106

Remarks: For explanations on data summarization methods and other information, please see the comments at the beginning of this publication. The yield comparison is expressed in several ways. First, overall actual yield of the standard check in t/ac along with the number of station years of testing. Second, actual yield of the standard check in each growing area. Third, average yield of each variety is expressed in % relative to the standard check. And finally, yield performance is also expressed on the basis of environmental productivity (Yield Test Categories of Low, Medium and High). Consistent performance over all Yield Test Categories indicates that a variety may have good yield stability over a wide range of environments. XX - Insufficient data to describe.



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Parata 1,4
Stettler 4
AAC Brandon 6
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