

Barley Variety Descriptions and Central BC Recommendations

Central B.C. Barley Recommendations

Grain				Silage
Maturity				
Early	Medium		Hulless	
6 Row	6 Row	2 Row		
AC Albright	AC Lacombe	AC Metcalfe	AC Hawkeye	AC Lacombe
AC Stacey	Brier	CDC Dolly	CDC Dawn	Kasota
Jackson	Duke	Harrington	CDC Silky	Klondike
	Kasota (sd)			Mahigan
	Klondike			
	Mahigan (sd)			
	Tukwa (sd)			

(sd) - Semi dwarf barley

Barley Silage Yields (test plots)

(kg dry matter/ha)

Variety	Priestly		Vanderhoof	Dawson Creek
	Irrigated	Dryland	Dryland	Dryland
	1986-1987	1986-1988	1986; 1988-1990	1999
AC Lacombe	-	-	-	6775
Brier	-	-	6283	7073
Duke	-	-	6089	5771
Heartland	10211	4411	5583	-
Jackson	9257	4290	6129	-
Klondike	10340	5236	5700	-
Stander	-	-	-	5779
Virden	-	-	5148	6695

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Barley Agronomic Characteristics

Seeding Rate

Barley is seeded at 84 to 112 Kg/Ha (75-100 lbs/Ac)

While the seeding rate range have given equal yields, experience has shown that the higher rate provides more consistent yields and can overcome emergence stress, reduce the amount of secondary tillering, green kernels and produce earlier uniform maturity.

Seed Treatment

Choosing disease-resistant varieties and using certified, plump, treated seed goes a long way in the fight against plant disease. The cost of a fungicide or combined fungicide/insecticide seed treatment is a small price to pay for the amount of protection they can provide.

Treated seed must not contaminate grain delivered to an elevator or be used for feed.

Cereal seed should be treated to control true loose smut, especially varieties like AC Stacey that are very susceptible.

Ergot

Ergot can attack all varieties of wheat, barley, rye, triticale, and most common species of grass. Oat varieties are rarely attacked.

Grain having 0.1% ergot is considered poisonous to livestock and should not be used as feed grain.

Hulless Barley Varieties

Hulless barley varieties have significantly less fibre and higher protein levels than conventional barley and therefore produce a higher level of digestible energy for monogastric animals.

In hulless varieties approximately 12% of the lower yield can be attributed to the lack of a hull.

Summary of Agronomic Characteristics

Variety	Head Type	Relative Maturity	Resistance to				
			Lodging	Scald	Loose Smut	Other Smut	Root Rot
AC Albright	6R-R	E	P	P	P	P	P
AC Harper	6R	Med	G	G	P	F	F
AC Hawkeye	6R (H)	Med	F	F	P	P	F
AC Lacombe	6R-Sm	Med	VG	F	P	G	P
AC Oxbow	2R-R	Med	VG	P	G	F	F
AC Stacey	6R-R	E	F	G	P	G	P
Argyle	6R-SS	Med-L	G	P	P	P	F
Bonanza	6R-Sm	E-Med	P	P	P	P	P
Brier	6R-Sm	Med-L	F	F	P	G	P

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Variety	Head Type	Relative Maturity	Resistance to				
			Lodging	Scald	Loose Smut	Other Smut	Root Rot
Bronco	6R	Med	G	F	P	F	F
CDC Buck	6R (H)	E-Med	G	P	P	P	F
CDC Dawn	2R (H)	Med-L	F	G	P	P	F
CDC Dolly	2R	Med	G	F	P	G	F
CDC Earl	6R (sd)	Med	EX	G	P	G	F
CDC Fleet	2R	E	G	G	P	P	P
CDC Gainer	2R (H)	E-Med	F	F	P	F	F
CDC Guardian	2R	Med	F	G	P	G	F
CDC McGwire	2R (H)	Med	-	-	P	-	-
CDC Richard	2R (H)	Med	P	G	P	F	F
CDC Silky	6R (H)	Med	VG	G	F	F	F
CDC Sisler	6R-Sm	Med	G	F	P	P	F
CDC Stratus	2R-R	Med	G	P	F	F	F
CDC Unity	2R-R	Med-L	G	P	P	P	F
CDC Yorkton	6R	Med-L	G	P	P	G	G
Duel	6R-SS	E-Med	G	P	P	F	F
Duke	6R-R (sd)	E-Med	EX	G	P	F	F
Falcon	6R (H)	Med	VG	G	P	G	F
Foster	6R-Sm	Med	G	P	P	-	-
Galt	6R-SS	Med	G	F	P	G	P
Harrington	2R-R	Med	F	P	P	P	F
Heartland	6R-Sm	Med	VG	P	P	F	F
Jackson	6R-R	E	G	P	P	P	P
Johnston	6R-Sm	Med	P	G	P	P	P

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Variety	Head Type	Relative Maturity	Resistance to				
			Lodging	Scald	Loose Smut	Other Smut	Root Rot
Kasota	6R-R (sd)	E-Med	EX	G	P	G	F
Klondike	6R-Sm	E-Med	G	P	F	F	F
Leduc	6R-R	Med	F	G	F	G	F
Mahigan	6R (sd)	Med	EX	G	P	G	F
Manley	2R-R	Med-L	G	P	P	F	F
Noble	6R-SS	Med	G	P	P	G	P
Otal	6R-R	E	P	P	P	F	P
Seebe	2R	Med-L	VG	G	P	G	F
Stander	6R-Sm	Med-L	VG	P	P	F	F
Stetson	6R (sd)	Med	EX	G	P	G	F
Tankard	6R-Sm	Med-L	G	P	P	P	F
Tukwa	6R (sd)	Med	VG	F	P	G	F
Winthrop	2R-R	Med	VG	P	P	G	P

Abbreviations

Head type : (H) - Hulless, 6R - 6 Row, 2R - 2 Row

Awn type: Sm - Smooth Awn; SS - Semi-smooth Awn; R - Rough Awn

Height: (sd) - Semi-dwarf

Resistance: P - Poor; F - Fair; G - Good; VG - Very Good; EX - Excellent

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Central BC Relative Grain Yield (test plots)

Variety	Head Type	Relative Maturity	Relative Grain Yield (% of Klondike)		
			Smithers	Vanderhoof	McBride
AC Stacey	6R-R	E	-	118	107
Argyle	6R-SS	Med-L	89	84	95
Bonanza	6R-Sm	E-Med	76	85	86
Brier	6R-Sm	Med-L	-	125	113
Duel	6R-SS	E-Med	-	111	112
Duke	6R-R (sd)	E-Med	-	120	102
Galt	6R-SS	Med	-	103	100
Harrington	2R-R	Med	87	91	100
Heartland	6R-Sm	Med	104	103	105
Jackson	6R-R	E	98	91	106
Johnston	6R-Sm	Med	94	105	110
Klondike	6R-Sm	E-Med	100	100	100
Leduc	6R-R	Med	120	102	101
Manley	2R-R	Med-L	-	113	101
Noble	6R-SS	Med	-	113	100
Otal	6R-R	E	94	86	107
Winthrop	2R-R	Med	-	87	101

Abbreviations

Head type : 6R - 6 Row, 2R - 2 Row

Awn type: Sm - Smooth Awn; SS - Semi-smooth Awn; R - Rough Awn

Height: (sd) - semi-dwarf

Resistance: P - Poor; F - Fair; G - Good; VG - Very Good; EX - Excellent

Relative Yields:

Smithers 100% Klondike = 4000 kg/ha for the years 1982 -86 and 1988

Vanderhoof 100% Klondike = 4960 kg/ha for the years 1979-81, 1984-86, and 1988-91

McBride 100% Klondike = 4470 kg/ha for the years 1978-80, 1986, 1989-91

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6 Row Barley - B.C. Peace Region 1993 - 99 (test plots)

Variety	Type	Days to Mature	Yield % of Harrington	Height (cm)	Lodging Resistance	Weight (lbs/bu)
AC Albright	feed	95	98	87	P	52.3
AC Harper	feed	102	107	79	G	49.4
AC Lacombe	feed	100	113	85	VG	50.2
AC Rosser	feed	102	113	80	F	50.3
AC Stacey +	feed	93	107	65	F	51.8
Brier *	feed	99	116	80	F	50.4
Bronco	feed	102	104	90	G	53.5
CDC Earl	feed(sd)	101	109	69	EX	50.2
CDC Sisler	malt	101	102	93	G	51.6
CDC Yorkton	malt	103	107	68	G	52.6
Duel *	malt	98	97	89	4	40.3
Duke *	feed (sd)	98	110	72	EX	51.2
Foster	malt	101	98	78	G	50.2
Harrington	2r malt	101	100	78	5	46.8
Jackson *	feed	92	93	66	G	52.3
Kasota	feed (sd)	98	116	70	EX	51.9
Leduc *	feed	97	109	77	F	50.0
Mahigan	feed (sd)	100	113	65	EX	52.1
Noble *	feed	99	103	78	G	50.4
Stander	malt	103	101	76	VG	53.1
Stetson	feed (sd)	102	107	53	EX	51.0
Tukwa	feed (sd)	100	111	73	VG	51.2

(sd) Semi-dwarf Variety

* 92-95 data

+ 92-96 data

Source - 1999 BC Grain Producers Association Field Crop Performance Bulletin

Barley Variety Descriptions and Central BC Recommendations

2 Row Barley - B.C. Peace Region 1993 - 99 (test plots)

Variety	Type	Days to Mature	Yield % of Harrington	Height (cm)	Lodging Resistance	Weight (lbs/bu)
AC Metcalfe	malt	102	115	83	G	54.1
AC Oxbow	malt	100	106	87	VG	53.7
CDC Dolly	feed	102	118	73	G	55.0
CDC Guardian	feed	101	105	79	F	52.4
CDC Stratus	malt	101	109	75	G	53.4
CDC Unity	malt	102	108	75	G	53.7
Harrington	malt	101	100	76	F	53.6
Manley	malt	104	112	78	G	53.4
Seebe	feed	104	118	86	VG	54.3
TR 145	malt	99	107	79	G	51.7

Source - 1999 BC Grain Producers Association Field Crop Performance Bulletin

Hulless Barley - B.C. Peace Region 1993 - 99 (test plots)

Variety	Type	Days to Mature	Yield % of Harrington	Height (cm)	Weight (lbs/bu)
AC Bacon	6 row	101	93	73	60.1
AC Hawkeye	6 row	102	98	100	61.9
CDC Dawn	2 row	102	94	81	62.4
CDC McGwire	2 row	101	94	67	64.1
CDC Silky	6 row	102	95	76	59.0
Falcon	6 row	100	99	66	61.9
Harrington	2 row malt	101	100	76	53.6

Source - 1999 BC Grain Producers Association Field Crop Performance Bulletin