

**2008 North Dakota barley variety descriptions.**

Variety	Use <sup>1</sup>	Origin <sup>2</sup>	Year Released	Awn Type <sup>3</sup>	Rachilla Hair Length <sup>4</sup>	Aleurone Color	Height	Straw Strength	Relative Maturity	Reaction to Disease <sup>5</sup>			
										Stem Rust	Loose Smut	Spot Blotch	Net Blotch
<b>Six-rowed</b>													
Azure	M/F	ND	1982	S	L	Blue	Med.	M.strg.	M.early	S	S	MR-R	MS-S
Celebration	MT	BARI	2008	S	S	White	M.short	Strg.	Med.	S	S	MR-R	MS-MS
Drummond	M/F	ND	2000	S	L	White	M.short	V.strg.	Med.	S	S	MR-R	MS-S
Excel	M/F	MN	1990	S	L	White	M.short	Strg.	Med.	S	S	MR-R	MS-S
Foster	M/F	ND	1995	S	L	White	M.short	Strg.	Med.	S	S	MR-R	MS-S
Hazen	F	ND	1984	S	L	White	Med.	M.strg.	Med.	S	S	MR-R	MS-S
Lacey	M/F	MN	1999	S	S	White	M.short	Strg.	Med.	S	S	MR-R	MS-S
Legacy	M/F	BARI	2000	S	L	White	Med.	Strg.	M.late	S	S	MR-R	MS-S
MNBrite <sup>6</sup>	F	MN	1997	S	S	White	Tall	Med.	Early	S	S	MR-R	MS-S
Morex	M/F	MN	1978	S	S	White	Tall	Med.	Early	S	S	MR	S
Rasmusson	MT	MN	2008	S	S	White	M.short	Strg.	Med.	S	S	MR-R	MS-S
Robust	M/F	MN	1983	S	S	White	Med.	M.strg.	Med.	S	S	MR-R	MS-S
Stander	F	MN	1993	S	S	White	M.short	V.strg.	M.late	S	S	MR-R	MS-S
Stellar-ND	M/F	ND	2005	S	L	White	M.short	V.strg.	Med.	S	S	MR-R	MS-S
Tradition	M/F	BARI	2003	S	L	White	M.short	V.strg.	Med.	S	S	MR-R	MS-S
<b>Two-rowed</b>													
AC Metcalfe	M	Can	1997	R	L	White	Med.	Med.	Late	S	NA	MS	MS
Bowman	F	ND	1984	S	L	White	M.short	Med.	Early	S	S	MS-S	S-MS
CDC Copeland	M	Can	1999	R	L	White	Tall	Med.	M.late	S	S	MS	MR
Conlon <sup>7</sup>	M/F	ND	1996	S	L	White	M.short	Med.	Early	S	S	MS	MR-R
Conrad	M	BARI	2007	R	L	White	Tall	M.weak	Late	S	NA	NA	NA
Eslick	F	MT	2003	R	L	White	Med.	M.weak	M.late	S	NA	MS	NA
Gallatin	F	MT	1986	R	L	White	Med.	Med.	Late	S	S	MS-S	MS
Harrington <sup>8</sup>	F	Can	1981	R	L	White	Med.	M.weak	V.late	S	S	S	MS
Haxby	F	MT	2003	R	L	White	Med.	Med.	Med.	S	NA	MS	NA
Logan	F	ND	1995	S	L	White	Med.	Strg.	Med.	S	S	MR	MR
Pinnacle	MT	ND	2006	S	L	White	Med.	Strg.	M.late	S	S	MR	MS
Rawson	F	ND	2005	R	L	White	Med.	Med.	Med.	S	S	MR	MS
Scarlett	M	Germany	1995	R	L	White	Short	Med.	Late	S	NA	NA	NA
Stark	F	ND	1991	S	L	White	M.tall	Med.	Late	S	S	S-MS	MS-S
Valier	F	Can	1999	R	L	White	Med.	M.weak	M.late	S	NA	MS	NA
<b>Specialty</b>													
Wanubet	SP	MT	1990	R	L	White	Med.	Weak	Late	S	S	S	S

<sup>1</sup> M = malting; MT = Being tested in plant scale tests for malting and brewing quality; F = feed; SP = special uses (hullless)

<sup>2</sup> BARI = Busch Agricultural Resources, Inc.; MN = University of Minnesota; MT = Montana State University; ND = North Dakota State University.

<sup>3</sup> R = rough; S = smooth.

<sup>4</sup> S = short; L = long.

<sup>5</sup> R = resistant; MR = moderately resistant; MS = moderately susceptible; S = susceptible; NA = not available.

<sup>6</sup> Moderately resistant to Fusarium head blight.

<sup>7</sup> Lower DON accumulations than other varieties tested.

<sup>8</sup> Recommended as a malting barley in western U.S.A.

**2008 North Dakota oat variety descriptions.**

Variety	Origin <sup>1</sup>	Year Released	Grain Color	Height	Straw Strength	Maturity <sup>2</sup>	Reaction to Diseases				Bu/Wt.	Protein <sup>5</sup>
							Stem Rust <sup>3</sup>	Crown Rust <sup>3</sup>	Barley Y.Dwl <sup>4</sup>			
AC Assiniboia	Can. Proven Seed	1997	Red	Med.	Strong	L	S	S	T	Good	ML	
AC Gwen	Can. SeCan	2000	Hulless	Tall	Strong	L	S	S	R	Good	L	
AC Kaufman	Can.	2000	Yellow	Tall	Strong	L	S	S	MT	V.good	ML	
AC Medallion	Can. Cargill	1997	White	Tall	Med.	L	S	S	MT	Good	ML	
AC Morgan	Can. SeCan	1999	White	Med.	Strong	L	S	S	S	V.good	ML	
AC Pinnacle	Can. QAS	1999	White	Tall	Med.	L	S	S	S	V.good	L	
AC Ronald	Can. SeCan	2001	White	M. short	V. strg.	L	S	S	T	V.good	M	
Beach	ND	2004	White	Tall	M.strg.	ML	S	MR/MS	MS	V.good	M	
Buff	SD	2002	Hulless	Med.	M.strg.	L	S	MR/MS	MT	Good	H	
CDC Boyer	Sask. Value Added	1994	White	Tall	M.strg.	L	S	MS	S	V.good	ML	
CDC Dancer	Can. Cargill	2000	White	Tall	Strong	L	S	MS	S	V.good	M	
CDC Minstrel	Sask.	2006	White	Tall	M.strg.	L	S	S	S	Good	M	
CDC Orrin	Can. QAS Cargill	2001	White	Tall	Strong	L	S	S	S	Good	ML	
CDC Pacer	Sask. Value Added	1996	White	Tall	M.strg.	L	S	S	S	Good	L	
CDC Weaver	Can.	2005	White	Med.	M.strg.	L	R	R	S	Good	M	
Drumlin	WI	2003	Yellow	Med.	Strong	M	S	MR	VT	Good	M	
Ebeltoft	ND	1999	White	Tall	Strong	V	S	MS	S	V.good	M	
Excel	IN	2006	White	Med.	Strong	M	S	MR	T	V.good	M	
Furlong	AAFC Winnipeg	2003	Red	Tall	M.strg.	L	S	S	T	V.good	M	
HiFi	ND	2001	White	Tall	Strong	L	MR/MS	R	T	Good	M	
Hytest	SD	1986	White	Tall	M.strg.	E	S	MS	S	V.good	H	
Jerry	ND	1994	White	Tall	Strong	M	S	MS	MT	V.good	M	
Jud	ND	1997	Ivory	Tall	Med.	L	R	MR/MS	T	Good	MH	
Killdeer	ND	2000	White	Med.	Strong	M	S	MS	MT	Good	M	
Leggett	AAFC Winnipeg	2005	White	Tall	M.strg.	L	MR	R	S	Good	M	
Leonard	MN	2001	Yellow	Tall	M.strg.	L	S	S	T	Fair	ML	
Loyal	SD	2000	Ivory	Tall	M.strg.	L	S	MR	T	Good	MH	
Maida	ND	2005	Yellow	Med.	Strong	M	R	S	MS	V.good	MH	
Monida	MT/ID	1985	White	M.tall	Strong	L	S	S	NA	Good	ML	
Morton	ND	2001	White	Tall	V.strg.	L	S	R	MT	V.good	M	
Otana	MT	1977	White	M.tall	M.weak	L	S	S	S	V.good	ML	
Paul	ND	1994	Hulless	V.tall	Strong	L	R	MR/MS	T	Good	H	
Reeves	SD	2002	White	M.tall	Med.	E	S	MR	MT	Good	H	
Sesqui	MN	2001	Yellow	M.tall	Strong	L	S	S	T	Good	M	
Souris	ND	2006	White	Med.	Strong	M	MS	R	MS	V.good	M	
Stallion	SD	2006	White	Tall	Med.	L	S	MR	NA	V.good	M	
Stark	ND	2004	Hulless	Tall	M.strg.	L	R	MR/MS	T	V.good	M	
Vista	WI	2000	Yellow	Tall	Strong	L	S	R	MT	Good	M	
Youngs	ND	1999	White	Med.	Strong	L	S	MS/S	MT	Good	M	

<sup>1</sup> Can = Canada; ND = North Dakota State University; SD = South Dakota State University; WI = Univ. of Wisconsin; IN = Purdue University; MT = Montana, ID = Idaho; Sask. = Saskatchewan.

<sup>2</sup> E = Early; M = medium; L = Late; V = very late.

<sup>3</sup> R = resistant; MR = moderately resistant; MS = moderately susceptible; S = susceptible.

<sup>4</sup> Barley Yellow Dwarf Virus; S = susceptible; MS = moderately susceptible; MT = moderately tolerant; T = tolerant; VT = very tolerant; NA = not available.

Varieties rated MT or T have a relatively good degree of protection against barley yellow dwarf virus.

<sup>5</sup> H = high; M = medium; L = low.

**2008 North Dakota winter rye variety descriptions.**

Variety	Origin <sup>1</sup>	Year Released	Height	Straw Strength	Maturity	Seed Color	Seed Size	Test Weight	Winter Hardiness
AC Rifle	Can.	1994	Short	V.good	Med.	Blue	Med.	Med.	V.good
AC Remington	Can.	1998	Short	V.good	Med.	--	Med.	Good	Good
Dacold	ND	1989	Med.	Good <sup>2</sup>	V.late	Bl-grn.	Med.	Low	Good
Frederick	SD	1984	Tall	Fair	Late	Tan	Med.	High	Good
Hancock	WI	1979	Tall	Good	Med.	Tan	Large	High	Fair <sup>3</sup>
Musketeers	Can.	1980	Tall	Good	M.early	Blue	Large	Med.	V.good
Prima	Can.	1984	Tall	Good	Med.	Blue	Large	Med.	V.good
Rymin	MN	1973	Tall	V.good	Late	Grn-gray	Large	High	Fair <sup>3</sup>
Spooner	WI	1993	Tall	V.good	Med.	Tan	Large	High	Good
Wheeler	MI	1971	Tall	Fair	Med.	--	Large	Low	Good

<sup>1</sup> Can. = Canada; ND = North Dakota State University; SD = South Dakota State University; WI = Univ. of Wisconsin; MN = University of Minnesota; MI = Michigan State University.

<sup>2</sup> Under certain environments, lodging has been observed.

<sup>3</sup> Varieties with fair winter hardiness should not be seeded on bare soil.

**2008 North Dakota flax variety descriptions.**

<b>Variety<sup>1</sup></b>	<b>Origin<sup>2</sup></b>	<b>Year Released</b>	<b>Relative Maturity</b>	<b>Seed Color</b>	<b>Plant Height</b>	<b>Wilt<sup>3</sup></b>
AC Carnduff	Can.	1998	Med. Late	Brown	Med. Tall	MR
AC Emerson	Can.	1994	Med.	Brown	Med.	R
AC Lightning	Can.	2002	Late	Brown	Med. Tall	R
AC Linora	Can.	1993	Late	Brown	Tall	R
AC Watson	Can.	1996	Early	Brown	Short	MR
Carter	ND	2004	Med.	Yellow	Med.	R
Cathay	ND	1998	Med.	Brown	Med.	MR
CDC Arras	Can.	1999	Med.	Brown	Med.	MR
CDC Bethune	Can.	1999	Med. Late	Brown	Med. Tall	MR
CDC Mons	Can.	2003	Med. Late	Brown	Med.	MR
CDC Normandy	Can.	1995	Med.	Brown	Short	MR
CDC Sorrel	Can.	2007	Med. Late	Brown	Med. Tall	MR
CDC Valour	Can.	1996	Early	Brown	Short	MR
Flanders	Can.	1989	Late	Brown	Med.	MS
Hanley	Can.	2002	Med. Early	Brown	Med.	R
McDuff	Can.	1993	Late	Brown	Med. Tall	MR
Nече	ND	1988	Med.	Brown	Med.	R
Nekoma	ND	2002	Late	Brown	Med.	MR
NorLin	Can.	1982	Early	Brown	Med.	MS
Omega	ND	1989	Med.	Yellow	Med.	MS
Pembina	ND	1998	Med.	Brown	Med.	MR
Prairie Blue	Can.	2003	Med. Late	Brown	Med. Tall	MR
Prairie Grande	Can.	2008	Med. Early	Brown	Med.	MR
Prairie Thunder	Can.	2006	Med.	Brown	Short	MR
Prompt	SD	1988	Early	Brown	Med.	MR
Rahab 94	SD	1994	Med.	Brown	Med.	MR
Selby	SD	2000	Late	Brown	Tall	MR
Taurus	Can.	2003	Med. Late	Brown	Med.	MR
Webster	SD	1998	Late	Brown	Tall	MR
York	ND	2002	Late	Brown	Med.	R

<sup>1</sup> All varieties have resistance to prevalent races of rust; all have good oil yield and oil quality.

<sup>2</sup> Can. = Canada; ND = North Dakota State University; SD = South Dakota State University.

<sup>3</sup> R = resistant; MR = moderately resistant; MS = moderately susceptible; NA = not available.