

## 2001-2002 Wallowa County Drill Strip Variety Trials - Dryland

**Cooperators: Melvine and Don Stonebrink, Lostine; and Alan Klages, Joseph**

### 2001-2002 Trial Variety List with Descriptions:

\*varietal descriptions based on SR 775 Varietal Descriptions.

- Weatherford:** Awned, common soft white winter wheat released in 1998 by OSU. Resistant to Foot-rot, stripe and leaf rust, and common bunt. Similar to Madsen in resistance to Cephalosporium stripe but is taller and later in heading.
- Madsen:** Awned, common soft white winter wheat released in 1998 by WSU with white and buff chaff. Good field resistance to rust diseases (stem, leaf, and stripe), Cephalosporium stripe, and strawbreaker foot rot. Moderate resistance to Septoria. Variety of choice in situations where disease levels are expected to be high. Weatherford is replacing some Madsen acreage in Oregon.
- Stephens:** Awned, common soft white winter wheat released in 1977 by OSU. High yielding, widely adapted variety with average winter hardiness. Susceptible to Cephalosporium stripe. Average level of winter hardiness. Grown in mixtures due to its yield potential and to avoid some disease problems.
- Rod:** Awned, common soft white winter wheat released in 1992 by WSU. Good stripe and common bunt resistance. Tolerance to Cephalosporium stripe, but susceptible to other diseases. Yields well across environments. Slightly lower protein levels than other varieties. Similar in winter hardiness to Madsen. Matures later and has weaker straw than Stephens. Does well in mixtures due to its yield potential
- Bruehl:** (WA 7833) Awned semi-dwarf club wheat released by WSU in 1999. It has good resistance to snowmold. It generally outyields Eltan and Sprague in areas where snowmold is a problem. Height, test weight, heading date, and emergence are similar to Madsen.
- Coda:** Awned, club wheat released in 1998 by WSU. A high yielding club with good resistance to stripe rust and strawbreaker foot-rot. Good milling and baking characteristics.
- Rohde:** Awned, club wheat with bronze chaff released in 1992 by OSU. A high yielding club across environments and has stripe rust resistance.
- Temple:** A high yielding club wheat released in 1998 by OSU. Stripe rust and foot-

rot resistant. Above average milling and baking quality. Yield is above average across traditional club wheat production areas.

**Edwin:** A club wheat with superior emergence capability released in 1999 by WSU. Intended as a replacement for the variety "Moro". Yield is inferior to other newer club wheat varieties

**50/50 Mix of Hiller/Coda:** Hiller is a stripe rust-resistant, awnletted club wheat released by WSU in 1998. Compared to other club wheats, yields are higher but test weights are lower than Tres or Rohde. Superior milling and baking qualities than other club wheats, however, it does not grade as club wheat when grown in some areas.

**Strider:** (fall barley) Medium-height, rough-awned, semi-compact head, barley stripe rust-resistant, six-row feed barley released by OSU in 1997. Earlier heading and taller than Kold. Consistently higher yields across environments.

**CAB 37:**

**Source of information in the following tables adapted from the Winter Grain Varieties for 2002, SR 775 publication.**

**Table 1. Agronomic Characteristics**

Variety	Emergence Index	Winter Hardiness	Maturity	Height	Lodging Resistance	Test Weight	Chaff Type
	(2)	(2)	(3)	(4)	(5)	(2)	(6)
<b>SWWW</b>							
Madsen	5	6	M	MT	R	8	W
Rod	5	2	M-L	M	MR	8	W
Stephens	5	2	E-M	M	R	7	W
Weatherford	-	2	M-L	MT	R	8	W
<b>CLUB</b>							
Coda	5	6	M-L	MT	MR	8	W
Rohde	6	4	E-M	MT	R	7	B
Temple	-	4	E-M	M	MR	7	W
Edwin	8	6	M	M	R	7	W
Hiller	5	6	M	M	R	6	W
Bruehl	6	-	M	MT	MR	7	W
<b>Fall Barley</b>							
Strider	-	F	Headate E-M	M	MR	6	roughawn
CAB 37							

(2) Scale of 1 to 10, poor to excellent. Winter hardiness ratings of 2-3 are generally adequate for most of Oregon. Emergence and Winter hardiness ratings are based on WSU test data.

(3) E = early, M = mid, L = late

(4) M = medium, MT = medium-tall

(5) R = resistant, MR = moderately resistant

(6) W = white, B = bronze

**Table 2. Disease Ratings (Source: Winter Grain Varieties for 2002, SR 775)**

Variety	Rust		Bunt		Flag	Cephalo-	Septoria	Foot	Take	Snow
	Stripe	Leaf	Common	Dwarf	Smut	sporium		Rot	All	Mold
	(1)	(1)	(1)	(1)	(1)	(2)	(1)	(1)	(1)	(1)
<b>SWWW</b>										
Madsen	R	R	R	MR	MS	5	MR	R	-	S
Rod	MR	MS	R	S	MS	6	S	S	-	S
Stephens	R	MS	S	S	MS	1	S	S	S	S
Weatherford	R	MR	R	-	MS	5	MS	R	S	-
<b>CLUB</b>										
Coda	R	-	-	-	-	-	-	R	-	-
Rohde	MR	MS	MR	S	VS	4	S	VS	-	S
Temple	R	MR	-	-	-	-	-	MR	-	-
Edwin	R	MS	-	-	-	5	-	MR	-	MR
Hiller	R	MR	MR	MS	-	S	-	S	S	-
Bruehl	MR	MS	-	-	-	-	-	MS	-	R
<b>Fall Barley</b>										
Strider	R	-	-	-	-	-	-	-	-	-
<b>CAB 37</b>										

(1) R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible, T = tolerant

(2) Cephalosporium Resistance may be due to morphological growth patterns rather than true genetic resistance 1= poor, 5 = medium, 10 = excellent

**2002 Grower Drill Strip Winter Cereal Variety Trials – Wallowa County**

<b>Variety</b>	<b>Market Class</b>	<b>Yield<sup>1</sup> (bu/acre)</b>	<b>Test Weight (lbs/bu)</b>	<b>Protein (%)</b>
<b><i>Dryland – Stonebrink Farm, Lostine<sup>2</sup></i></b>				
Madsen	sw	29	55.3	13.1
Rod	sw	31	53.5	12.7
Stephens	sw	29	53.2	13.2
Weatherford	sw	37	55.7	12.5
Hiller	club	24	54.1	10.2
Coda	club	30	58.0	13.1
Rohde	club	20	55.0	14.7
Temple	club	37	54.9	12.7
Edwin	club	19	53.5	16.1
Bruehl	club	27	55.6	13.0
Hiller/Coda	club mix	35	56.4	10.8
Strider	6RF	29	42.9	13.3
KAB-37	6RF/M	31	43.0	13.8
<b><i>Irrigated – Klages Farm, Joseph<sup>3</sup></i></b>				
Madsen	sw	115	54.9	11.3
Rod	sw	104	52.9	11.0
Stephens	sw	125	53.8	10.9
Weatherford	sw	114	55.3	11.3
Daws	sw	107	56.5	11.1
Coda	club	98	52.9	11.3
Rohde	club	106	56.8	11.3
Temple	club	104	54.4	11.3
Edwin	club	102	56.2	11.8
Bruehl	club	108	52.6	11.6

<sup>1</sup> Yields adjusted to 10% moisture and test weight.

<sup>2</sup> Stonebrink Farm – trial direct seeded 9-25-01 and harvested 8-14-02. Harvest area for each variety was 20 ft x 812 ft = 0.37 acres.

<sup>3</sup> Klages Farm – trial conventionally seeded 10-24-01, harvested 9-12-02. Harvest area for each variety was 20 ft x 1260 ft = 0.58 acres (except Daws was 20 ft x 700 ft = 0.32 acres).