

## Western Washington State Soft Winter Wheat Variety Trial 2010

A soft winter wheat nursery was planted at the [WSU Mount Vernon Research Center](http://www.wsu.edu/research/center/mount_ernest) on October 7, 2009, at a seeding rate of 110 lbs/ac. The nursery consisted of 6-row plots (7" spacing, 7 ft. harvest length), with three replicates for each variety. A single application of sulfur-coated urea (39-0-0-14) was made on April 12, 2010, at a rate of 50 lbs N/acre. All other nutrients were deemed sufficient based on a soil test. Weeds were controlled by hand and fungicides were not used. The trial was harvested on August 21, 2010.

Stripe rust was severe in the nursery, greatly impacting susceptible varieties. The disease lowered the trial average yield and test weight.

For additional information, contact Steve Jones ([joness@wsu.edu](mailto:joness@wsu.edu)) or Steve Lyon ([slyon@wsu.edu](mailto:slyon@wsu.edu)). More resources on Western Washington small grain production are available at: <http://plantbreeding.wsu.edu>.

Name	Class <sup>1</sup>	Yield <sup>2</sup> (bu/a)	Test Wt <sup>3</sup> (lbs/bu)	Heading <sup>4</sup> (days)	Plant Ht (in)	Protein <sup>3</sup> (%)	Lodging (%)
ROD	SWH	149.5	56.8	146	36	9.0	10.0
CARA	WHCB	149.3	59.9	150	40	9.7	0.0
SKILES	SWH	148.0	58.3	134	35	10.2	7.0
WA008092	SWH	145.4	57.4	153	40	9.2	2.0
ARS970075-3C	WHCB	138.0	58.7	150	41	9.0	3.0
CODA	WHCB	136.0	61.6	146	42	10.2	23.0
TALL STEPHENS	SWH	134.8	60.0	146	40	9.7	37.0
SALUTE	SWH	134.7	56.7	146	42	9.1	12.0
ARS970170-2L	SWH	133.7	58.6	146	39	8.5	17.0
RJAMES	SWH	132.1	53.6	146	36	8.4	4.0
FINCH	SWH	130.9	58.3	157	37	9.4	15.0
GOETZE/SKILES	SWH	128.6	58.6	134	35	9.8	0.0
SIMON	SWH	127.8	58.0	146	40	9.6	7.0
ARS960277L	SWH	126.7	58.1	146	37	8.2	2.0
9364901A	SWH	126.1	56.4	146	37	9.7	52.0
LEGION	SWH	125.8	57.7	146	40	9.3	23.0
BRUEHL	WHCB	123.6	56.4	157	37	9.0	7.0
KCF9001	SWH	123.3	57.5	150	45	9.3	3.0
AP 700 CL	SWH	123.0	56.8	146	40	9.7	3.0
MADSEN/ROD	SWH	122.8	57.4	140	46	9.3	23.0
OR2040726	SWH	121.6	58.0	140	37	9.2	0.0
WA008115	SWH	120.9	58.6	146	38	9.2	0.0
ELTAN/MADSEN	SWH	119.9	55.4	146	38	9.9	22.0
ORCF-103	SWH	119.6	56.6	157	40	8.6	23.0
OR2060395	SWH	118.2	57.6	129	35	8.8	0.0
ARS970163-4C	WHCB	117.7	58.6	153	41	8.8	0.0
CARA (HSR)	WHCB	113.1	59.2	150	39	8.9	0.0
WA008094	SWH	111.6	58.2	150	38	9.0	8.0
CHUKAR (HSR)	WHCB	111.1	59.5	153	38	9.0	0.0

ID00-475-2DH	SWH	109.6	59.3	146	38	9.1	37.0
WA008093	SWH	109.0	57.3	146	39	9.4	0.0
BRUNDAGE 96	SWH	108.3	59.2	146	38	8.9	0.0
XERPHA	SWH	107.9	54.1	150	39	10.2	0.0
LAMBERT	SWH	107.2	55.9	146	42	9.5	0.0
ROD/TUBBS06	SWH	107.2	54.2	146	39	9.2	0.0
GEORGE	SWH	106.8	54.8	153	39	8.6	7.0
STEPHENS	SWH	105.3	57.3	146	38	9.7	0.0
MASAMI	SWH	104.5	56.6	150	39	9.0	1.0
ID02-859	SWH	103.4	58.2	146	36	9.0	0.0
BRUEHL (HSR)	WHCB	102.3	54.7	153	39	8.8	10.0
CHUKAR	WHCB	101.6	58.9	153	43	8.6	3.0
KCF9002	SWH	101.0	55.0	146	39	10.9	0.0
ARS970184-1C	WHCB	100.7	53.5	146	40	9.6	17.0
ARS970071-3C	WHCB	99.0	59.6	146	39	10.6	0.0
TUBBS 06	SWH	98.9	54.1	146	41	9.6	0.0
WA008116	SWH	98.7	55.7	150	39	8.9	1.0
WA008114	SWH	98.5	58.2	140	39	9.6	0.0
ELTAN/TUBBS06	SWH	97.6	52.1	146	37	9.1	23.0
MADSEN	SWH	96.2	56.3	146	36	9.9	0.0
WA008063	SWH	88.6	55.6	140	34	9.3	0.0
WA008117	SWH	88.4	55.6	150	35	8.8	2.0
ELTAN	SWH	87.6	52.7	150	37	8.7	17.0
ORCF-102	SWH	84.9	53.9	146	39	9.9	0.0
KCF9003	SWH	81.6	56.1	134	40	11.9	75.0
DH99-55-2	SRW	70.7	55.5	140	42	10.2	0.0
BITTERROOT	SWH	62.9	-	146	38	-	3.0
WB-528	SWH	57.7	-	140	36	-	0.0
AP LEGACY	SWH	45.0	-	146	36	-	0.0
BZ6W02-616	SWH	36.1	-	129	34	-	0.0
CDC PTARMIGAN	SWH	32.4	-	140	41	-	0.0
	<b>C.V. %</b>	<b>26.1</b>	<b>1.9</b>	<b>-</b>	<b>-</b>	<b>5.2</b>	<b>-</b>
	<b>Average</b>	<b>108.6</b>	<b>57.0</b>	<b>146.1</b>	<b>38.7</b>	<b>9.4</b>	<b>8.3</b>
	<b>Highest</b>	<b>149.5</b>	<b>61.6</b>	<b>157.0</b>	<b>46.0</b>	<b>11.9</b>	<b>75.0</b>
	<b>Lowest</b>	<b>32.4</b>	<b>52.1</b>	<b>129.0</b>	<b>34.0</b>	<b>8.2</b>	<b>0.0</b>

1. Class definitions: SWH = Soft White; SRW = Soft Red; WHCB = White Club.
2. Fisher's LSD at  $p = 0.1$  is 34.0 bu/a. Yield values within the LSD range of the highest yield are shown in bold and included 26 cultivars. Grain moisture was 12-13% at the time of measurement.
3. Test weight and protein were not measured on varieties yielding below 70 bu/a.
4. Number of days after January 1, 2010 that 50% of the heads were fully emerged.