

2006 WSU EXTENSION SOFT WHITE WINTER WHEAT NURSERY AT ANATONE, WA.

Variety Name	5 YEAR AVERAGE (BU/A)	3 YEAR AVERAGE (BU/A)	2 YEAR AVERAGE (BU/A)	2006					
				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	LODGING (%)	PLANT HT	HEAD DATE
ORCF-102			102.9	102.0	59.0	10.6	0	36.3	156.4
WA007935		99.7	94.9	99.9	58.0	10.5	0	36.5	159.0
MADSEN/ROD				97.8	58.3	10.3	0	34.8	157.5
SIMON	79.6	86.6	98.7	96.8	58.5	10.4	0	37.3	155.6
CODA	87.4	98.1	97.7	96.6	61.3	10.5	0	37.5	157.1
9222407A				96.4	59.2	9.7	0	38.0	157.1
MJ-9	92.8	105.4	100.6	96.4	57.7	10.1	0	34.5	157.5
WA007971			96.5	96.1	57.0	10.0	0	32.8	158.3
WA007973			102.3	96.0	58.9	10.3	0	34.8	155.6
RJAMES		102.3	103.6	96.0	56.5	10.0	0	33.0	156.4
WB 528		101.5	102.6	95.8	60.3	10.6	0	35.5	149.3
ID990419				94.7	58.8	10.1	0	35.5	158.3
GEORGE		102.6	94.0	94.7	57.6	10.5	0	36.3	159.0
BU6W00-523				94.3	60.5	10.6	0	34.3	153.8
ROD	91.9	103.9	99.8	93.5	58.0	10.1	0	32.8	157.5
BZ6WM02-1020				92.9	58.4	10.5	0	33.8	157.5
MOHLER	89.0	98.8	100.3	91.7	58.0	10.6	0	35.5	154.1
HUBBARD	83.5	94.4	93.6	91.4	59.8	10.6	0	40.8	156.0
ELTAN	84.7	99.4	91.1	91.1	58.6	10.6	0	35.5	159.0
MADSEN	83.5	95.7	96.7	90.5	58.2	10.8	0	35.5	157.1
ID990435				89.7	58.5	10.4	0	38.5	154.1
ORCF-101		96.6	97.5	89.7	58.5	11.2	0	34.3	153.8
CONCEPT		97.7	94.3	89.5	59.7	11.2	0	32.5	156.8
LAMBERT	81.1	85.9	97.0	89.2	58.7	11.0	0	37.3	153.0
HILL 81	83.7	93.1	89.8	89.0	59.0	10.9	0	37.8	156.8
WA007934		100.2	91.2	88.3	58.2	10.3	0	35.5	158.3
ORSS-1757			97.9	87.9	57.9	10.6	0	35.8	153.8
ORH010920				87.8	58.4	11.0	0	30.5	148.9
WA008000				87.4	58.3	10.5	0	35.5	159.0
WA007970			84.9	87.2	58.8	10.7	0	34.8	158.6
MJ-4	80.6	91.2	94.8	87.2	56.8	10.3	0	33.8	158.6
TUBBS	89.2	101.7	100.9	86.7	57.2	10.2	0	37.0	155.3
FINCH	87.0	97.9	94.7	86.6	59.1	11.0	0	36.3	159.0
BU6W99-456				85.7	60.4	11.6	0	32.8	147.8
ARSC96059-2				85.3	59.3	11.0	0	38.8	156.4
CASHUP	85.9	98.9	93.4	85.2	59.5	10.6	0	32.0	156.0
TUBBS 06				84.5	57.2	10.5	0	37.0	155.6
BRUEHL	85.2	98.0	98.0	84.4	56.1	10.7	0	35.3	159.0
MASAMI	93.3	107.4	97.1	83.7	57.4	10.5	0	34.3	159.0
RELY	85.5	93.7	92.2	83.6	58.4	10.9	0	33.8	156.8
STEPHENS	82.8	89.4	89.3	82.7	57.2	11.4	0	33.8	153.0
ARS00258				82.6	59.6	10.5	0	32.5	156.8
LEWJAIN	81.4	91.0	88.7	82.4	58.7	11.0	0	31.8	158.6
IDAHO 587		91.8	91.9	81.2	58.0	11.0	0	33.8	153.0
BZ6WM02-1154				81.2	60.1	11.6	0	33.0	151.9
BRUNDAGE 96	83.5	93.6	95.0	81.0	56.8	11.1	0	32.5	154.5
HILLER	83.6	96.8	95.2	80.8	56.4	11.0	0	31.8	155.6
ARSC96059-1			90.1	79.1	60.4	10.9	0	38.5	156.4
ARS00235		85.3	86.3	78.0	59.8	10.1	0	36.3	157.1
CHUKAR	85.1	97.4	85.5	76.3	57.9	10.5	0	33.8	157.1
EDWIN	82.7	95.8	84.3	73.9	59.8	11.4	0	37.0	155.3
WA007999				71.6	55.8	11.1	0	28.3	154.5
ARS99123				70.2	59.4	11.1	0	30.5	156.0
ARS97135-9		86.6	79.8	65.3	57.2	11.1	0	30.5	157.1
C.V. %	9.4	8.7	9.1	9.2	0.8	4.6	--	--	--
LSD '@. 10'	4.3	5.5	7.0	9.4	0.5	0.6	--	--	--
Average	85.3	96.3	94.5	87.6	58.5	10.7	0	34.8	156.0
Highest	93.3	107.4	103.6	102.0	61.3	11.6	0	40.8	159.0
Lowest	79.6	85.3	79.8	65.3	55.8	9.7	0	28.3	147.8

ANATONE SOFT WINTER WHEAT – 2006 WSU VARIETY TESTING DATA

1. 2006 Soft White Winter Wheat **YIELD DATA** from the WSU Variety Testing nursery at the Anatone location averaged 87.6 bu/ac that was about 10% lower than the 3-year average at this location (96.3 bu/ac). *NOTE: The Anatone nursery was located about 8 miles south of Anatone, WA (J. Johnson farm).*
2. This nursery was **seeded** on 6 October 2005 on summer fallow ground using a plot drill with double disc openers into good soil moisture that was about 1/2-inch below the surface. This nursery endured some pretty harsh winter conditions and had fairly slow spring regrowth. An April 2006 field evaluation showed plants that were only about 2-inches tall.
3. **Stripe rust** was not a factor in the 2006 nursery; however, ***Cephalosporium* stripe** was fairly prevalent during a 22 June 2006 field evaluation. Incidence of *Cephalosporium* stripe varied throughout the nursery and within plots of individual varieties. This location has a history of *Cephalosporium* stripe that is aggravated by wheat summer fallow rotations with reduced tillage systems in an area that suffers from harsh cold winter climatic conditions.
4. **Yield differences** among the varieties had a range of 65.3 to 102.0 bu/ac; however, the majority of varieties/experimental lines had yields that were grouped very closely together and statistically equal. In contrast to other soft white winter wheat nurseries harvested many of the yield rankings (high-to-low) do not track as well with the historic 3yr or 5-yr yield rankings. A 'best guess' is that the winter wheat stand went into the dry/hot 30-day period from mid-April to mid-May and idled along without any significant tiller development or growth. Cooler temperatures and precipitation at the end of May into the first of June enabled the plants to cover and yield within 10% of the historic 3-year yield average. Many of the varieties/experimental lines grouped in the top of the yields have Madsen as part of a pedigree and many others have Eltan as part of a pedigree. A high percentage of varieties/experimental lines in the bottom of the yield column are winter clubs – this is more difficult to explain (in fact we have no explanation at this point in time). *NOTE: Soft white winter wheat club varieties/lines are listed in italic print in the data set.*
5. Average **Test Weight** values had a range of 55.8 to 61.3 lb/bu with a **percent grain protein** range of 9.7% to 11.6%. Causes of extremely low test weight values in some of varieties/lines might be partially explained by *Cephalosporium* stripe (such as Stephens); however, more than likely it is a function of heat stress during grain fill that seemed to vary among varieties.