

## 2007 WSU EXTENSION SOFT WHITE WINTER WHEAT NURSERY AT RITZVILLE, WA.

Variety Name <small>*Club Italized</small>	5 YEAR AVERAGE (BU/A)	3 YEAR AVERAGE (BU/A)	2 YEAR AVERAGE (BU/A)	2007					
				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	LODGING (%)	PLANT HT	HEAD DATE
ORI2042037				53.7	61.2	11.9	0	24.8	146.3
MASAMI	68.0	67.1	65.6	53.5	60.5	10.9	0	25.8	148.1
ORCF-102		62.9	60.5	52.0	60.6	12.0	0	28.8	143.3
BRUNDAGE 96	59.6	58.2	54.9	51.9	60.6	10.8	0	26.8	143.6
XERPHA		65.8	61.9	51.1	61.2	11.2	0	26.5	147.8
FINCH	65.8	62.2	58.8	50.6	61.6	11.1	0	25.0	150.8
GEORGE		61.8	62.2	50.2	60.6	11.3	0	25.5	150.4
ELTAN	60.8	58.5	58.3	50.0	61.2	12.1	0	26.0	149.6
WA008000			57.2	50.0	61.1	11.8	0	26.8	148.5
ID02-859				49.1	60.1	12.0	0	26.3	144.8
WA007934	61.4	58.3	55.3	48.7	60.8	11.5	0	25.3	150.0
RELY	60.0	56.5	57.9	48.6	60.9	10.8	0	26.0	149.4
MJ-9	60.4	58.8	57.5	47.8	59.6	11.9	0	25.8	146.3
WA008021				47.6	60.4	12.0	0	25.5	148.9
ORCF-101	61.0	57.6	53.7	47.0	61.3	11.7	0	28.3	141.8
ELTAN/MADSEN				47.0	61.0	11.7	0	25.8	147.0
BRUEHL	62.4	58.1	55.7	45.9	59.7	12.1	0	26.8	148.9
ELTAN/TUBBS				45.7	60.7	12.2	0	26.8	145.1
SALUTE				45.0	59.8	11.7	0	25.5	145.9
9364901A				44.7	61.0	11.9	0	26.0	146.3
AP 700 CL				44.7	61.2	11.8	0	27.1	142.5
CHUKAR	64.6	58.6	59.3	44.6	60.0	12.1	0	23.7	149.9
ID990435			51.5	44.3	60.9	11.3	0	29.8	141.0
ROD/TUBBS				44.3	60.4	11.4	0	25.8	147.4
CARA		56.5	57.5	44.1	59.9	11.8	0	22.7	148.9
TUBBS	64.5	61.5	55.8	44.1	60.1	11.4	0	27.8	144.8
LAMBERT	55.3	50.3	48.0	44.0	61.0	11.5	0	29.0	139.9
ROD	64.3	57.9	55.6	43.2	60.4	12.0	0	25.0	147.0
BU6W00-523			53.2	43.1	61.2	12.2	0	27.3	142.9
ARSC96059-1		56.0	48.9	42.0	61.7	12.2	0	26.3	147.9
EDWIN	58.1	54.3	53.2	41.9	61.3	11.1	0	27.8	147.4
WB 528	56.0	49.4	49.2	41.9	62.0	12.4	0	26.0	143.3
MADSEN/ROD			53.2	41.1	60.2	13.0	0	24.8	147.8
CODA	62.8	60.1	59.4	40.9	61.5	12.7	0	26.0	148.9
MOHLER	59.5	56.4	53.0	40.9	60.7	12.3	0	25.5	145.1
WA008020				40.8	59.5	12.3	0	23.0	151.5
IDAHO 587	52.5	47.9	46.1	40.6	61.0	11.6	0	26.3	141.8
ARS970278-2				40.6	61.3	11.8	0	25.0	145.4
MADSEN	58.9	55.5	53.4	40.2	60.3	13.4	0	25.7	147.4
TUBBS 06			49.7	40.2	60.0	11.9	0	26.3	146.3
BU6W99-456			45.0	39.7	61.2	13.0	0	25.8	142.9
9222407A			44.8	38.7	60.5	12.5	0	26.5	146.0
MJ-4	58.9	53.5	51.1	38.5	58.8	13.5	0	25.3	150.4
CONCEPT		51.6	49.5	37.0	60.9	12.1	0	23.8	147.0
ARS00235	58.1	54.2	51.6	36.8	61.1	12.7	0	25.7	149.9
STEPHENS	54.9	48.9	47.5	36.8	60.6	12.2	0	25.0	142.1
CASHUP	57.6	53.1	49.5	36.0	61.1	12.5	0	23.8	148.1
BZ6WM02-1020			45.9	35.8	60.5	12.7	0	23.0	147.8
RJAMES		53.4	49.8	35.4	60.0	12.3	0	21.5	149.3
SIMON	51.4	47.9	43.8	33.8	60.2	12.6	0	23.8	148.5
C.V. %	10.7	12.9	13.4	14.8	0.7	6.9	--	--	--
LSD '@ .10'	3.2	4.7	5.8	7.6	0.5	1.0	--	--	--
Average	59.9	56.5	53.5	43.9	60.7	12.0	0	25.8	146.6
Highest	68.0	67.1	65.6	53.7	62.0	13.5	0	29.8	151.5
Lowest	51.4	47.9	43.8	33.8	58.8	10.8	0	21.5	139.9

## RITZVILLE SOFT WHITE WINTER WHEAT – 2007 WSU VARIETY TESTING DATA

1. 2007 Soft White Winter Wheat **YIELD DATA** from the WSU Variety Testing nursery at the Ritzville location averaged 43.9 bu/ac that was 28.7% below the 3-year historical average (61.6 bu/ac). This is nearly the same yield reduction difference that occurred in the Hard Winter nursery at this location. *NOTE: The Ritzville nursery was located eight miles northwest of Ritzville on Dewald Rd (E. Maier farm).*
2. This nursery was **seeded early** on 6 September 2005 on summer fallow ground using a deep furrow plot drill with split packer double disc openers into soil moisture that was about 4-inches below the surface at a seeding rate of 45#/acre. The base fertilizer rate was 40#N and 5#S. In general, the cold snap at the end of October 2006 and the 10-day cold-snap in mid-January (11-21 Jan 2007) had minimal winter injury impact. It is worth noting that this nursery had a 'struggle' throughout the early spring growing season particularly due to limited precipitation during the March through May. Below normal precipitation during this period coupled with cold soil temperatures greatly reduced crown and root development and subsequent tillering. Overall it appears that below average yields at this location is a function of reduced tillering, similar to the Hard Winter Wheat nursery. It also appears that spring weather patterns seemed to have had a more harmful effect on early spring growth-habit varieties. Later maturing varieties such as Eltan-types seemed to handle these weather patterns better. For example, five of the eight highest yielding varieties/lines at this location have Eltan in their pedigree.
3. **Yield differences** had a range of 33.8 to 53.7 bushels per acre. Wheat quality in terms of **test weight** was good at this location with an average test weight value of 60.7 lbs/bu.
4. **Percent grain protein** had an average of 12.0%, probably most influenced by high temperatures during grain fill.