

2007 WSU EXTENSION SOFT WHITE SPRING WHEAT NURSERY AT HORSE HEAVEN, WA.

Variety Name <i>*Club Italized</i>	5 YEAR AVERAGE (BU/A)	3 YEAR AVERAGE (BU/A)	2 YEAR AVERAGE (BU/A)	2007				
				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	PLANT HT	HEAD DATE
ZAK	27.9	23.7	30.6	31.2	59.8	12.4	26.0	148.3
WAKANZ	33.3	29.6	36.7	31.0	59.0	12.4	24.7	149.0
LOUISE	34.0	29.9	37.7	30.3	61.6	12.0	27.3	147.0
ALPOWA	30.7	26.4	34.1	29.6	61.5	12.1	23.0	148.3
NICK	33.4	29.2	37.4	28.9	60.9	13.1	20.7	145.7
WA008046				28.9	60.5	12.7	23.0	147.0
ALTURAS	31.6	26.5	33.9	28.5	60.5	11.5	20.3	147.3
<i>WA008047</i>				28.1	62.1	12.3	22.7	149.0
WA008039				27.8	61.2	12.2	21.7	148.0
WA008041				27.8	59.7	12.6	24.3	148.0
WA008008			36.1	27.3	61.1	12.4	21.7	144.7
WA008044				27.0	61.1	12.9	22.7	148.0
UI CATALDO			33.4	26.6	61.1	12.2	20.0	145.0
<i>EDEN</i>	30.9	26.2	33.1	25.8	62.0	12.1	21.7	146.7
WA008043				25.7	61.9	12.3	19.3	148.0
<i>WA007989</i>				25.3	59.1	12.6	18.7	150.0
WA008059				24.7	60.5	13.7	24.0	146.3
ARS05S303				24.4	58.2	13.0	21.3	149.0
C.V. %	7.2	7.3	7.0	7.7	0.7	4.3	--	--
LSD '@ .10'	1.4	1.6	2.2	3.0	1.1	0.8	--	--
Average	31.7	27.4	34.8	27.7	60.7	12.5	22.4	147.5
Highest	34.0	29.9	37.7	31.2	62.1	13.7	27.3	150.0
Lowest	27.9	23.7	30.6	24.4	58.2	11.5	18.7	144.7

2007 WSU EXTENSION HARD WHITE SPRING WHEAT NURSERY AT HORSE HEAVEN, WA.

Variety Name	5 YEAR AVERAGE (BU/A)	3 YEAR AVERAGE (BU/A)	2 YEAR AVERAGE (BU/A)	2007				
				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	PLANT HT	HEAD DATE
WAIKEA		31.5	39.5	33.0	60.4	13.6	24.3	145.7
BZ903-445WP-d			40.0	32.3	60.9	15.0	25.0	145.7
OTIS	31.5	28.3	35.5	32.1	61.7	14.1	28.3	147.7
LOLO	31.4	28.1	36.4	30.8	61.9	14.3	26.3	146.7
CLEAR WHITE				29.2	62.6	14.4	21.7	143.7
MACON	26.4	22.8	30.0	27.2	61.3	14.4	23.7	145.7
WQL9HDALP			32.6	27.1	62.3	12.8	23.3	147.3
WA008036				26.0	61.4	14.5	26.7	146.0
PATWIN				25.1	59.3	15.4	19.7	148.7
WA008038				24.4	61.7	14.6	26.7	145.0
WA008035				22.0	60.0	14.8	22.0	144.3
BLANCA GRANDE	27.5	24.9	32.0	21.6	62.5	15.8	20.3	142.3
C.V. %	8.0	9.0	8.6	10.9	1.4	2.8	--	--
LSD '@ .10'	1.4	2.0	2.7	7.3	2.1	1.0	--	--
Average	29.2	27.1	35.1	27.6	61.3	14.5	24.0	145.7
Highest	31.5	31.5	40.0	33.0	62.6	15.8	28.3	148.7
Lowest	26.4	22.8	30.0	21.6	59.3	12.8	19.7	142.3

2007 WSU EXTENSION HARD RED SPRING WHEAT NURSERY AT HORSE HEAVEN, WA.

Variety Name	5 YEAR AVERAGE (BU/A)	3 YEAR AVERAGE (BU/A)	2 YEAR AVERAGE (BU/A)	2007				
				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	PLANT HT	HEAD DATE
JEFFERSON	31.1	30.0	38.1	29.3	61.3	16.0	22.7	145.0
WA008034				29.2	59.4	14.9	25.0	147.3
HOLLIS	31.0	28.3	35.0	27.8	61.5	15.1	27.3	146.7
WA008031				27.6	60.2	17.3	24.0	146.7
SCARLET	28.9	24.7	32.0	26.9	59.5	15.9	24.3	147.3
HANK	31.1	28.8	35.4	26.7	61.1	15.9	22.3	145.3
RSI50076				26.6	59.9	13.7	19.7	146.7
WA008030				26.2	61.8	15.7	24.7	146.7
GRANAR				25.8	60.3	15.2	24.0	148.3
WA008013				25.4	61.0	15.9	27.7	146.3
CABERNET				24.6	62.0	16.4	19.3	146.0
JEROME	29.1	26.2	32.9	24.0	62.2	15.5	22.7	145.0
BZ999-339		26.8	34.0	23.6	60.6	16.0	22.0	144.7
JEFF/PRONTO			34.2	23.6	60.5	16.2	21.7	144.7
ACS52610			32.8	23.4	61.4	14.8	21.3	148.0
WA008027				23.3	59.7	17.0	26.0	146.7
JEDD			32.4	22.4	61.8	15.9	20.7	144.7
WA007954			32.2	22.0	60.7	16.8	25.7	147.7
BUCK PRONTO		24.6	30.8	20.9	61.0	17.1	22.3	143.0
WESTBRED 926	27.5	25.5	31.5	20.0	60.8	16.8	21.7	143.7
TARA 2002	28.4	25.3	32.1	19.2	59.9	16.7	25.0	144.0
C.V. %	8.1	8.3	7.7	11.5	1.0	2.9	--	--
LSD '@ .10'	1.4	1.8	2.3	4.0	0.8	0.7	--	--
Average	29.6	26.7	33.3	24.7	60.8	15.9	23.3	145.9
Highest	31.1	30.0	38.1	29.3	62.2	17.3	27.7	148.3
Lowest	27.5	24.6	30.8	19.2	59.4	13.7	19.3	143.0

HORSE HEAVEN SPRING WHEAT – 2007 WSU VARIETY TESTING DATA

1. 2007 Spring Wheat **yield data** from the WSU Variety Testing nursery at the Horse Heaven, WA location averaged 27.7, 27.6, and 24.7 bu/ac for soft white spring, hard white spring and hard red spring wheat, respectively. The 2007 spring wheat **average yields were lower** by (13.2%), (11.5%) and (23.0%) for soft white spring, hard white spring and hard red spring wheat, respectively, compared to the previous historical 3-year average. Yield levels below historical averages is most likely a function of cold, dry weather patterns during the spring growing period from March through May 2007 that delayed early growth and development of root systems and crowns. This might be most evident in the HRS nursery where additional nitrogen coupled with higher and more timely precipitation in previous years provided both yield and protein 'boost' to HRS varieties. *NOTE: The Horse Heaven nursery was located on Cemetery Rd (S. Smith farm).*
2. This nursery was planted (22 March 2007) on chem fallow with a plot drill (hoe openers on 5-inch spacing) at a 60#/acre seeding rate. Base fertilizer was 20#N, 3#S. A 6 March 2007 soil test showed 71#N, 14#P, 10#S and 13# Cl (top 2-feet) availability. An additional (30#N, 4.5#S) and 50#N, 7.5#S) were applied to the hard white and hard red spring nurseries at planting, respectively.
3. **Stripe rust** was not a significant factor in the 2007 nursery even though traces of stripe rust were observed on susceptible varieties.
4. **TEST WEIGHT** values (average range across market classes was 60.7 lb/bu to 61.3 lb/bu) were fairly high, probably influenced most by 0.75 inch of precipitation on 5 June 2007 followed by a period of cooler temperatures during grain fill for about a 10-days.
5. **GRAIN PROTEIN** values were averaged 12.5%, 14.5% and 15.9% for soft white, hard white and hard red spring market classes, respectively. The fertility levels favored hard spring market classes.