

2007 WSU EXTENSION SOFT WHITE SPRING WHEAT NURSERY AT REARDAN, 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 (%)	PLANT HT	HEAD DATE
WA008039				48.9	59.0	12.6	31.0	177.5
WA008044				40.9	59.0	13.3	29.7	178.5
WA008043				40.5	58.5	13.5	27.3	180.5
ALPOWA	54.5	50.3	54.5	39.8	59.0	13.5	31.3	179.0
<i>EDEN</i>	56.4	53.0	58.8	38.4	59.2	12.7	29.3	179.0
WA008059				37.8	57.8	14.3	31.7	178.0
ALTURAS	55.4	52.0	55.5	37.7	58.1	13.5	29.0	178.0
WA008046				37.6	57.7	13.5	30.7	179.0
WA008008			52.0	37.5	57.4	14.0	29.7	177.5
NICK	56.5	53.3	56.3	36.8	58.0	14.1	28.0	176.5
ARS05S303				36.6	55.8	14.4	29.0	182.0
ZAK	42.6	39.2	46.1	33.0	57.3	14.3	29.7	180.5
WA008041				32.7	56.7	14.2	30.7	179.5
UI CATALDO			54.1	32.5	56.4	13.9	29.3	173.5
<i>WA008047</i>				32.5	60.5	13.5	31.3	180.0
LOUISE	57.9	56.1	58.8	32.1	58.1	13.6	33.7	178.5
WAKANZ	58.1	57.5	61.3	32.0	57.0	14.8	28.0	179.5
<i>WA007989</i>				23.5	58.0	14.1	26.0	182.0
C.V. %	7.9	8.3	8.7	13.0	1.0	2.7	--	--
LSD '@ .10'	2.4	3.1	4.1	6.6	0.8	0.5	--	--
Average	54.5	51.6	55.3	36.2	58.0	13.8	29.7	178.8
Highest	58.1	57.5	61.3	48.9	60.5	14.8	33.7	182.0
Lowest	42.6	39.2	46.1	23.5	55.8	12.6	26.0	173.5

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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
LOLO	56.0	52.8	57.8	45.8	58.6	14.8	31.3	178.0
CLEAR WHITE				44.4	57.6	14.4	28.3	173.5
BZ903-445WP-d			59.6	43.1	54.9	15.2	32.3	178.0
WAIKEA		55.8	55.8	40.6	54.9	14.8	34.3	176.5
OTIS	54.0	52.0	55.1	40.4	58.7	14.3	35.7	180.0
WQL9HDALP			56.6	40.0	58.8	13.2	31.7	177.5
BLANCA GRANDE	52.4	46.2	43.8	38.2	58.8	15.2	26.3	172.0
WA008036				38.2	58.6	15.3	35.7	178.0
MACON	48.4	45.1	49.6	36.6	56.6	15.0	31.3	176.0
WA008038				34.2	59.1	14.8	35.7	175.5
WA008035				32.4	56.1	15.3	30.7	175.5
PATWIN				32.3	55.3	17.1	25.3	180.0
C.V. %	7.8	8.9	10.0	11.0	1.4	2.5	--	--
LSD '@ .10'	2.4	3.4	4.8	10.3	1.9	0.9	--	--
Average	52.7	50.4	54.0	38.9	57.3	15.0	31.6	176.7
Highest	56.0	55.8	59.6	45.8	59.1	17.1	35.7	180.0
Lowest	48.4	45.1	43.8	32.3	54.9	13.2	25.3	172.0

2007 WSU EXTENSION HARD RED SPRING WHEAT NURSERY AT REARDAN, 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
WA007954			50.5	38.3	57.6	17.0	31.0	179.5
BZ999-339		54.0	56.3	36.9	55.4	17.1	31.3	176.5
WESTBRED 926	54.4	53.1	55.2	35.7	55.3	17.3	30.7	174.5
JEDD			54.3	35.7	57.0	16.4	27.3	176.5
HOLLIS	50.3	50.7	52.5	35.2	57.2	17.7	38.0	177.5
TARA 2002	54.8	54.4	55.3	35.1	57.2	17.3	34.0	174.5
ACS52610			52.2	35.1	58.5	16.5	29.3	178.0
GRANAR				34.7	58.0	16.3	29.3	180.5
HANK	56.0	53.9	55.4	34.6	55.9	17.0	28.7	176.5
JEROME	53.7	50.7	51.5	33.8	56.3	16.2	27.7	175.5
CABERNET				32.9	56.8	16.5	24.0	176.0
WA008034				32.2	57.2	16.6	31.7	179.0
BUCK PRONTO		49.1	47.9	31.9	54.9	17.5	29.0	173.5
WA008013				31.9	58.5	17.7	40.0	176.5
WA008030				31.5	58.0	17.6	32.0	179.0
WA008031				31.5	56.8	18.2	33.0	178.5
JEFF/PRONTO			48.7	31.1	56.0	17.6	30.0	173.5
RSI50076				29.7	56.5	16.4	25.0	177.0
SCARLET	50.1	46.4	50.3	29.4	56.5	17.4	31.7	177.0
JEFFERSON	53.0	49.9	50.3	28.1	57.0	17.9	29.7	177.5
WA008027				23.9	57.4	18.6	31.3	178.5
C.V. %	7.9	7.9	8.6	9.3	1.2	2.0	--	--
LSD '@ .10'	2.4	2.9	3.9	4.3	1.0	0.5	--	--
Average	53.2	51.4	52.4	32.8	56.9	17.2	30.7	176.9
Highest	56.0	54.4	56.3	38.3	58.5	18.6	40.0	180.5
Lowest	50.1	46.4	47.9	23.9	54.9	16.2	24.0	173.5

REARDAN SPRING WHEAT – 2007 WSU VARIETY TESTING DATA

1. 2007 Spring Wheat **yield data** from the WSU Variety Testing nursery at the Reardan, WA location averaged 36.2, 38.9, and 32.8 bu/ac for soft white spring, hard white spring and hard red spring wheat, respectively. The average yields for each market class were -35.1%, -33.6% and -45.9% below a historical 3-yr average at this location. *NOTE: The Reardan nursery was located five miles west of Reardan, WA (H. Johnson farm) off SR 2 and north on Janett Road (adjacent the Old State Highway Rd).*
2. This nursery was planted (10 April 2007) on re-crop ground following winter wheat with a no till plot drill (cross-slot openers, 10-inch spacing) at an 80#/acre seeding rate. A March 2007 soil test showed 10.65 inches moisture in the top 4-feet. Base fertilizer was 90#N, 17P and 17#S. Based on a March 2007 soil test analysis and additional (35#N, 5.25#S) and (75#N, 11.25#S) fertilizer rate was applied to the hard white and hard red spring nurseries respectively.
3. Lower average **yield levels** were invariably a function of the cool, dry spring conditions and below normal precipitation from March through May. Average yield variation among entries was slight and yields of many entries were grouped closely together. The lower than average yields coupled with fairly **low test weight** and **high grain protein** percentage suggests that this nursery was severely impacted with the dry soil conditions and considerable heat stress in late June into July during kernel development and fill. Supplemental nitrogen applied based on a historical yield average of 50bu/ac probably also placed an additional stress on plants, especially if seasonal moisture was only enough to support spring wheat yields less than 40 bu/ac.
4. **TEST WEIGHT** average values across market classes were 56.9 lb/bu to 58.0 lb/bu.
5. **GRAIN PROTEIN** values averaged 13.8%, 15.0% and 17.2% for soft white, hard white and hard red spring market classes, respectively.