

2012 WSU Soft White Spring Wheat Trial, Mayview

Impact of Foliar Disease on Grain Yield

Variety Name <i>(Club Italicized)</i>	Grain Yield Bu/A		Yield Difference (protected-unprotected)	
	Protected	Unprotected	Bu/A	%
WA 8124	44	48	-4	-9
Louise	44	47	-3	-8
Louise-G2	44	51	-7	-16
Louise-0W	43	51	-8	-18
Diva	42	42	-1	-2
Wakanz	40	42	-2	-5
<i>JD</i>	40	42	-2	-6
Whit	40	47	-7	-18
WA 8161	39	44	-5	-12
IDO599	39	44	-5	-13
<i>ARS03174CS</i>	37	45	-8	-23
<i>WA 8160</i>	37	41	-4	-11
IDO686	36	40	-4	-10
Alpowa	36	36	0	1
IDO671	35	42	-7	-19
IDO687	35	39	-4	-12
Zak	35	41	-6	-18
Alturas	35	43	-9	-25
WB-1035CL+	34	39	-5	-14
WA 8162	34	42	-8	-23
<i>ARS03173LS</i>	34	44	-9	-27
Nick	33	32	1	3
Babe	32	32	0	-2
<i>WA 8131</i>	29	33	-4	-15
CV	7	11		
LSD	3	5		
GRAND MEAN	37	42	-5	-12
Max. Mean	44	51		
Min. Mean	29	32		

Mayview Soft White Spring Wheat

1. This summary includes duplicate soft white spring wheat trials except one was sprayed with fungicide and the other was not sprayed. Grain yield in these 2012 Mayview soft white spring wheat trials averaged 37 bushels/acre, 12 bushels/acre lower than the 5-year average in the fungicide sprayed trial, and the non-sprayed trial averaged 42 bushels/acre. The Mayview trial was located about five miles south of Lower Granite Dam on the Snake River, or twelve miles northeast of Pomeroy, WA (R. & R. Koller, cooperators).
2. The trials were seeded on 25 April, 2012 following winter wheat. Seed was placed at an 80#/acre seeding rate using a double-disc plot drill set on 6-inch spacing. Base fertilizer was 70#N/acre applied pre-plant. Spring seeding conditions were good and establishment was uniform. Tilt® fungicide at 4 oz/a was applied 1 June and 11 July to the sprayed trial and stripe rust levels were low.
3. In the sprayed trial, yields ranged from 29 to 44 bu/a, while in the non-sprayed trial, yields ranged from 32 to 51 bu/a. Yield values within the LSD range of the highest yield are shown in bold and 5 of the 24 entries are in this group in both trials. 'Louise', Louise-G2, and Louise-0W were the highest yielding named varieties in the sprayed trial and they are: Louise with 2oz/100lbs seed of Gaucho® insecticide seed treatment, Louise at the standard seed treatment rate (0.75oz/100lbs seed), and Louise-0W without insecticide. 'Diva', 'Wakanz' and Louise were the highest yielding over 5 years of results at this site. Louise-0W and Louise-G2 were the highest yielding named varieties in the non-sprayed trial. Yields in both trials and the difference in yield and percentage difference between sprayed and non-sprayed for each entry are in a separate comparison table. Average yield of the sprayed trial was 5 bu/a less than non-sprayed trial.
4. Test weights averaged 61.3 lbs/bu and ranged from 59.6 to 62.4 lbs/bu in the sprayed trial, and averaged 61.4 lbs/bu and ranged from 59.8 to 62.8 lbs/bu in the non-sprayed trial. Grain protein averaged 10.4% with a range of 9.7 to 11.2% in the sprayed trial, and protein averaged 10.5% with a range of 9.9 to 11.4% in the non-sprayed trial. There was no lodging in either trial.