

2011 WSU Variety Testing SW Spring Wheat Trial, St. John

Variety Name <small>*Club Italized</small>	5 YEAR AVERAGE (BU/A)	3 YEAR AVERAGE (BU/A)	2 YEAR AVERAGE (BU/A)	2011				
				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	PLANT HT	HEAD DATE
Louise-G2				78	62.1	10.4	37	182
Diva		69	57	72	62.6	10.6	36	183
Louise	67	68	55	71	61.7	10.1	37	183
WA 8131				68	62.0	10.9	30	185
JD	62	66	57	66	63.4	11.7	34	183
Babe	63	65	51	65	61.6	9.9	33	182
WA 8124			53	65	62.9	10.8	33	185
WA 8128				65	62.5	11.5	36	180
WA 8127				64	62.1	10.9	30	183
Alturas	60	64	52	63	61.1	10.2	32	183
Eden	63	63	52	63	62.8	10.6	30	182
Whit	66	66	53	63	61.2	10.0	33	181
IDO686				62	62.8	10.8	34	183
Wakanz	66	64	52	60	60.7	11.1	30	184
IDO687				60	62.8	10.5	31	183
IDO671			48	58	61.7	9.8	33	182
WA 8149				58	61.2	10.3	34	184
WA 8150				56	62.5	10.2	30	184
Alpowa	62	58	45	55	61.9	10.0	32	184
Zak	62	59	44	55	60.8	10.9	33	184
IDO644				55	60.5	10.1	30	179
UI-Cataldo	51	50	38	49	60.6	11.1	31	179
Nick	55	54	40	48	60.4	10.6	29	181
WB-1035CL2				40	60.0	11.9	29	180
C.V.	15	13	14	10	0.7	4.1	5	1
LSD	3	4	6	8	0.9	0.9	3	2
Average	61	62	50	61	61.8	10.6	32	182
Highest	67	69	57	78	63.4	11.9	37	185
Lowest	51	50	38	40	60.0	9.8	29	179

St. John Soft White Spring Wheat – Preliminary Data

1. Grain yield in the St. John soft white spring wheat trial averaged 61 bushels/acre, equal to the 5-year average. The St. John nursery was located about three mile east of St. John, WA (Mac Mills, cooperator).
2. This nursery was seeded on 20 April, 2011 following winter wheat. Seed was placed at an 80#/acre seeding rate using a double-disc drill set on 6-inch spacing. Base fertilizer was 80 #N/acre applied. Spring seeding was late, but establishment was good.
3. Yields ranged from 40 bu/acre to 78 bu/acre. Yield values within the LSD range of the highest yield are shown in bold and 3 of the 24 entries are in this group. Louise-G2 was the highest yielding entry in 2011 and Louise was the highest yielding over 5 years of results at this site. The Louise-G2 entry is a 2 oz/100lb of Gaucho seed treatment. This treatment targets wire worms that may be causing yield losses and was 7 bu/acre higher yielding with higher test weight and protein than Louise with the usual seed treatment. This is consistent with a better root system when wire worms are controlled. Wire worm distribution is not uniform and can contribute to variation in the trial. Stripe rust was a factor in this trial but no fungicide was applied. There appears to be 25% or more effect on yield by stripe rust for susceptible entries. The Lattice design was 263% efficient compared to an RCBD for yield.
4. Test weights were good averaging 61.8 lb/bu and ranged from 60.0 to 63.4 lb/bu. Grain protein averaged 10.6% with a range of 9.8 to 11.9%. The average plant height was 32 inches with no lodging.