

## 2011 WSU Variety Testing Hard Winter Wheat Trial, St. Andrews

Variety Name <small>*Hard White 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
WA 8119			72	<b>72</b>	61.0	9.0	44	167
WA 8120			69	<b>72</b>	61.1	9.4	41	167
IDO656				<b>70</b>	63.0	10.0	48	165
WA 8096		47	61	<b>67</b>	61.5	7.1	43	169
Bauermeister	49	51	62	<b>65</b>	61.4	7.9	44	169
Boundary	51	50	62	<b>64</b>	61.8	9.3	42	165
Farnum	49	50	60	<b>61</b>	61.1	9.2	50	170
WA 8070		46	56	<b>60</b>	62.4	9.9	48	170
UI Silver		51	62	<b>60</b>	63.4	9.5	42	165
ML9W05-2501				<b>60</b>	62.8	9.8	43	164
MDM	47	45	56	<b>59</b>	61.4	7.6	42	171
Eltan (SWW Check)	47	46	56	<b>58</b>	59.9	8.7	41	168
Eddy	39	41	53	<b>58</b>	63.5	9.7	40	162
Peregrine		50	59	<b>58</b>	63.0	9.3	49	163
Finley	46	45	55	<b>57</b>	<b>63.9</b>	10.0	51	163
Norwest 553	32	37	39	<b>57</b>	62.2	10.4	34	163
IDO835				<b>57</b>	62.3	8.3	42	165
WA 8118			54	<b>55</b>	61.9	10.1	46	162
OR2080156H			40	<b>55</b>	61.9	10.7	38	167
Azimut				<b>55</b>	59.6	11.5	34	163
OR2080111H				53	60.6	8.5	38	163
AgriPro Paladin	37	37	45	52	63.1	10.8	39	163
WB-Tucson		40		51	<b>63.8</b>	11.1	39	163
Accipiter		47	51	51	62.7	9.7	41	167
Esperia		35	43	49	62.5	10.8	36	162
Hatton	42	44	52	48	<b>64.4</b>	10.2	48	167
Whetstone	37	37	42	46	63.0	11.0	37	162
Genesi				43	62.0	11.4	35	162
Altigo				40	58.6	11.2	36	163
UICF-Grace		38	43	38	61.4	10.1	50	161
C.V.	24	20	18	16	0.7	9.5	5	1
LSD	6	8	12	18	0.8	1.8	4	2
Average	43	44	54	56	62.0	9.7	42	165
Highest	51	51	72	72	64.4	11.5	51	171
Lowest	32	35	39	38	58.6	7.1	34	161

### St. Andrews Hard Winter Wheat – Preliminary Data

1. Grain yield in the St. Andrews hard winter wheat trial averaged 56 bushels/acre, 13 bushels/acre higher than the 5-year average. Higher yields were enabled by favorable spring precipitation and temperatures. The St. Andrews nursery was located about seven miles west of Coulee City, WA (L. Tannenberg, cooperator).
2. This nursery was seeded on 1 September, 2010 following summer fallow. Seed was placed at a 45#/acre seeding rate using a deep furrow plot drill set on 15-inch spacing. Base fertilizer was 90#N and a spring soil test analysis showed 109#N/acre available that was an adequate N supply for hard protein levels at projected, historic yield levels. Fall seeding conditions were favorable and emergence and stand establishment were good. There were minor levels of snow mold over winter.
3. Yields ranged from 38 bu/ac to 72 bu/ac. Bauermeister was the highest yielding named entry in this trial. All yield values within the 10% LSD range of the highest yield are shown in bold and this included 20 of the 30 entries. This large grouping within the top LSD value is due to a relatively narrow yield range and high variability at this site, although the CV is lower than average historical values. There was a low level of stripe rust potential at this location and no fungicide was applied. The Lattice design was 109% efficient compared to an RCBD.
4. Test weights were very good with an average of 62.0 lb/bu. Grain protein was low and averaged 9.7% due to higher than projected yields with a range of 7.1 to 11.5%. Plant height averaged 42 inches with no lodging.