## 2011 WSU Variety Testing SW Spring Wheat Trial, Walla Walla

					2011				
WA 8131   78   60.1   14.5   33   172     Nick   67   80   72   74   59.3   13.9   35   168     Eden   68   83   77   74   61.2   12.9   34   169     IDO644   57   74   57.8   13.6   33   168     Louise-G2   73   60.0   13.2   37   169     Whit   66   80   72   71   57.3   14.5   34   168     Diva   85   80   71   60.2   13.3   35   170     U-Cataldo   65   79   74   70   59.3   14.3   35   166     Babe   67   84   74   70   59.3   14.3   35   166     Babe   67   84   74   70   59.3   13.3   33   170     Wa 8127   60   69   60.6   60.6   15.0   <									HEAD DATE
Nick   67   80   72   74   59.3   13.9   35   168     Eden   68   83   77   74   61.2   12.9   34   189     IDO644   57.8   13.6   33   166     Louise-G2   73   60.0   13.2   37   169     Whit   66   80   72   71   57.3   14.5   34   188     Diva   85   80   71   60.2   13.3   35   170     UI-Cataldo   65   79   74   70   59.3   14.3   35   166     Babe   67   84   74   70   59.4   13.9   36   169     Zak   64   72   60   69   60.6   15.0   34   171     WB 3127   90   86   69   59.3   13.3   33   167     WB-1035CL2   15   67   59.5   15.2   36	Louise	69	83	76	79	59.7	13.1	38	170
Eden   68   83   77   74   61.2   12.9   34   169     IDO644   74   57.8   13.6   33   166     Louise-G2   73   60.0   13.2   37   189     Whit   66   80   72   71   57.3   14.5   34   168     Diva   85   80   71   60.2   13.3   35   170     Ul-Cataldo   65   79   74   70   59.3   14.3   35   166     Babe   67   84   74   70   59.4   13.9   36   169     Zak   64   72   60   69   60.6   15.0   34   171     Alturas   70   90   86   69   59.3   13.3   33   170     WA 8127   5   69   60.6   14.0   34   170     WB-1035CL2   5   66   60.0   13.1   35	WA 8131				78	60.1	14.5	33	172
IDO644	Nick	67	80	72	74	59.3	13.9	35	168
Louise-G2   73   60.0   13.2   37   169     Whit   66   80   72   71   57.3   14.5   34   168     Diva   85   80   71   60.2   13.3   35   170     Ul-Cataldo   65   79   74   70   59.3   14.3   35   166     Babe   67   84   74   70   59.4   13.9   36   169     Zak   64   72   60   69   60.6   15.0   34   171     Alturas   70   90   86   69   59.3   13.3   33   170     WA 8127   90   86   69   59.3   13.3   33   170     WA 8128   70   90   86   69   59.8   13.2   36   167     WB-1035CL2   1068   60.0   13.1   35   170     IDO687   80   65   59.8   13.2	Eden	68	83	77	74	61.2	12.9	34	169
White   66   80   72   71   57.3   14.5   34   168     Diva   85   80   71   60.2   13.3   35   170     Ul-Cataldo   65   79   74   70   59.3   14.3   35   166     Babe   67   84   74   70   59.4   13.9   36   169     Zak   64   72   60   69   60.6   15.0   34   171     Alturas   70   90   86   69   59.3   13.3   33   170     WA 8127   70   90   86   69   59.3   13.3   33   170     WA 8128   70   90   86   69   59.2   14.3   38   167     IDO686   70   80   60   60.0   13.1   35   170     IDO687   80   65   59.8   13.2   35   169     Alpowa	IDO644				74	57.8	13.6	33	166
Diva   85   80   71   60.2   13.3   35   170     Ul-Cataldo   65   79   74   70   59.3   14.3   35   166     Babe   67   84   74   70   59.4   13.9   36   169     Zak   64   72   60   69   60.6   15.0   34   171     Alturas   70   90   86   69   59.3   13.3   33   170     WA 8127   90   86   69   69.3   10.0   34   171     WB-1035CL2   15.2   67   58.5   15.2   36   167     IDO686   100   13.1   35   170   100   100   13.1   35   170     IDO671   80   65   59.8   13.2   35   169     Alpowa   63   77   65   64   59.4   14.4   34   171     WA 8124   7	Louise-G2				73	60.0	13.2	37	169
Ul-Cataldo   65   79   74   70   59.3   14.3   35   166     Babe   67   84   74   70   59.4   13.9   36   169     Zak   64   72   60   69   60.6   15.0   34   171     Alturas   70   90   86   69   59.3   13.3   33   170     WA 8127   69   60.0   14.0   34   170     WA 8128   70   70   86   67   59.2   14.3   38   167     WB-1035CL2   70   66   60.0   13.1   35   170     IDO686   70   80   65   59.8   13.2   35   169     Alpowa   63   77   65   64   59.4   14.4   34   171     WA 8124   76   65   63   56.4   14.7   31   171     WA 8150   7   61   60.2	Whit	66	80	72	71	57.3	14.5	34	168
Babe   67   84   74   70   59.4   13.9   36   169     Zak   64   72   60   69   60.6   15.0   34   171     Alturas   70   90   86   69   59.3   13.3   33   170     WA 8127   69   60.0   14.0   34   170     WA 8128   67   59.2   14.3   38   167     WB-1035CL2   67   58.5   15.2   36   167     IDO686   60.0   13.1   35   170     IDO687   80   65   59.8   13.2   35   169     Alpowa   63   77   65   64   59.4   14.4   34   171     Wakanz   64   76   65   63   56.4   14.7   31   171     WA 8124   77   61   60.2   14.3   35   172     WA 8149   76   76   76	Diva		85	80	71	60.2	13.3	35	170
Zak   64   72   60   69   60.6   15.0   34   171     Alturas   70   90   86   69   59.3   13.3   33   170     WA 8127   Formula 100   69   60.0   14.0   34   170     WA 8128   Formula 100   67   59.2   14.3   38   167     WB-1035CL2   Formula 100   66   60.0   13.1   35   170     IDO686   Formula 100   Formula 100   66   60.0   13.1   35   170     IDO671   B0   65   59.8   13.2   35   169     Alpowa   63   77   65   64   59.4   14.4   34   171     Wakanz   64   76   65   63   56.4   14.7   31   171     JD   65   80   74   61   60.2   14.3   35   172     WA 8124   77   61   60.5	UI-Cataldo	65	79	74	70	59.3	14.3	35	166
Alturas 70 90 86 69 59.3 13.3 33 170   WA 8127 69 60.0 14.0 34 170   WA 8128 67 59.2 14.3 38 167   WB-1035CL2 67 58.5 15.2 36 167   IDO686 66 60.0 13.1 35 170   IDO687 80 65 59.8 13.2 35 169   Alpowa 63 77 65 64 59.4 14.4 34 171   Wakanz 64 76 65 63 56.4 14.7 31 171   JD 65 80 74 61 61.3 14.5 38 170   WA 8124 77 61 60.2 14.3 35 172   WA 8150 59.7 59.7 12.9 33 171   C.V. 14 13 13 7 1.5 5.0 5 1   LSD 3 5 7 6	Babe	67	84	74	70	59.4	13.9	36	169
WA 8127 69 60.0 14.0 34 170   WA 8128 67 59.2 14.3 38 167   WB-1035CL2 67 58.5 15.2 36 167   IDO686 60 60.0 13.1 35 170   IDO687 66 60.6 13.7 34 170   IDO671 80 65 59.8 13.2 35 169   Alpowa 63 77 65 64 59.4 14.4 34 171   Wakanz 64 76 65 63 56.4 14.7 31 171   JD 65 80 74 61 61.3 14.5 38 170   WA 8124 77 61 60.2 14.3 35 172   WA 8150 14 13 13 7 1.5 5.0 5 1   C.V. 14 13 13 7 1.5 5.0 5 1   B.O 3 5 7 6	Zak	64	72	60	69	60.6	15.0	34	171
WA 8128 67 59.2 14.3 38 167   WB-1035CL2 67 58.5 15.2 36 167   IDO686 60 60 60.0 13.1 35 170   IDO671 80 65 59.8 13.2 35 169   Alpowa 63 77 65 64 59.4 14.4 34 171   Wakanz 64 76 65 63 56.4 14.7 31 171   JD 65 80 74 61 61.3 14.5 38 170   WA 8124 77 61 60.2 14.3 35 172   WA 8150 57 59.7 12.9 33 171   C.V. 14 13 13 7 1.5 5.0 5 1   LSD 3 5 7 6 1.8 1.4 3 2   Average 66 81 74 68 59.6 13.9 35 169   Highest <t< td=""><td>Alturas</td><td>70</td><td>90</td><td>86</td><td>69</td><td>59.3</td><td>13.3</td><td>33</td><td>170</td></t<>	Alturas	70	90	86	69	59.3	13.3	33	170
WB-1035CL2 67 58.5 15.2 36 167   IDO686 60.0 13.1 35 170   IDO687 66 60.6 13.7 34 170   IDO671 80 65 59.8 13.2 35 169   Alpowa 63 77 65 64 59.4 14.4 34 171   Wakanz 64 76 65 63 56.4 14.7 31 171   JD 65 80 74 61 61.3 14.5 38 170   WA 8124 77 61 60.2 14.3 35 172   WA 8150 5 61 60.5 14.3 32 171   C.V. 14 13 13 7 1.5 5.0 5 1   LSD 3 5 7 6 1.8 1.4 3 2   Average 66 81 74 68 59.6 13.9 35 169   Highest 70 <td>WA 8127</td> <td></td> <td></td> <td></td> <td>69</td> <td>60.0</td> <td>14.0</td> <td>34</td> <td>170</td>	WA 8127				69	60.0	14.0	34	170
IDO686   66   60.0   13.1   35   170     IDO687   66   60.6   13.7   34   170     IDO671   80   65   59.8   13.2   35   169     Alpowa   63   77   65   64   59.4   14.4   34   171     Wakanz   64   76   65   63   56.4   14.7   31   171     JD   65   80   74   61   61.3   14.5   38   170     WA 8124   77   61   60.2   14.3   35   172     WA 8150   4   13   13   7   59.7   12.9   33   171     C.V.   14   13   13   7   1.5   5.0   5   1     LSD   3   5   7   6   1.8   1.4   3   2     Average   66   81   74   68   59.6   13.9   35 <t< td=""><td>WA 8128</td><td></td><td></td><td></td><td>67</td><td>59.2</td><td>14.3</td><td>38</td><td>167</td></t<>	WA 8128				67	59.2	14.3	38	167
IDO687	WB-1035CL2				67	58.5	15.2	36	167
IDO671   80   65   59.8   13.2   35   169     Alpowa   63   77   65   64   59.4   14.4   34   171     Wakanz   64   76   65   63   56.4   14.7   31   171     JD   65   80   74   61   61.3   14.5   38   170     WA 8124   77   61   60.2   14.3   35   172     WA 8150   61   60.5   14.3   32   171     C.V.   14   13   13   7   1.5   5.0   5   1     LSD   3   5   7   6   1.8   1.4   3   2     Average   66   81   74   68   59.6   13.9   35   169     Highest   70   90   86   79   61.3   15.2   38   172	IDO686				66	60.0	13.1	35	170
Alpowa 63 77 65 64 59.4 14.4 34 171   Wakanz 64 76 65 63 56.4 14.7 31 171   JD 65 80 74 61 61.3 14.5 38 170   WA 8124 77 61 60.2 14.3 35 172   WA 8150 61 60.5 14.3 32 171   WA 8149 57 59.7 12.9 33 171   C.V. 14 13 13 7 1.5 5.0 5 1   LSD 3 5 7 6 1.8 1.4 3 2   Average 66 81 74 68 59.6 13.9 35 169   Highest 70 90 86 79 61.3 15.2 38 172	IDO687				66	60.6	13.7	34	170
Wakanz   64   76   65   63   56.4   14.7   31   171     JD   65   80   74   61   61.3   14.5   38   170     WA 8124   77   61   60.2   14.3   35   172     WA 8150   61   60.5   14.3   32   171     WA 8149   57   59.7   12.9   33   171     C.V.   14   13   13   7   1.5   5.0   5   1     LSD   3   5   7   6   1.8   1.4   3   2     Average   66   81   74   68   59.6   13.9   35   169     Highest   70   90   86   79   61.3   15.2   38   172	IDO671			80	65	59.8	13.2	35	169
JD   65   80   74   61   61.3   14.5   38   170     WA 8124   77   61   60.2   14.3   35   172     WA 8150   61   60.5   14.3   32   171     WA 8149   57   59.7   12.9   33   171     C.V.   14   13   13   7   1.5   5.0   5   1     LSD   3   5   7   6   1.8   1.4   3   2     Average   66   81   74   68   59.6   13.9   35   169     Highest   70   90   86   79   61.3   15.2   38   172	Alpowa	63	77	65	64	59.4	14.4	34	171
WA 8124   77   61   60.2   14.3   35   172     WA 8150   61   60.5   14.3   32   171     WA 8149   57   59.7   12.9   33   171     C.V.   14   13   13   7   1.5   5.0   5   1     LSD   3   5   7   6   1.8   1.4   3   2     Average   66   81   74   68   59.6   13.9   35   169     Highest   70   90   86   79   61.3   15.2   38   172	Wakanz	64	76	65	63	56.4	14.7	31	171
WA 8150   61   60.5   14.3   32   171     WA 8149   57   59.7   12.9   33   171     C.V.   14   13   13   7   1.5   5.0   5   1     LSD   3   5   7   6   1.8   1.4   3   2     Average   66   81   74   68   59.6   13.9   35   169     Highest   70   90   86   79   61.3   15.2   38   172	JD	65	80	74	61	61.3	14.5	38	170
WA 8149   57   59.7   12.9   33   171     C.V.   14   13   13   7   1.5   5.0   5   1     LSD   3   5   7   6   1.8   1.4   3   2     Average   66   81   74   68   59.6   13.9   35   169     Highest   70   90   86   79   61.3   15.2   38   172	WA 8124			77	61	60.2	14.3	35	172
C.V. 14 13 13 7 1.5 5.0 5 1   LSD 3 5 7 6 1.8 1.4 3 2   Average 66 81 74 68 59.6 13.9 35 169   Highest 70 90 86 79 61.3 15.2 38 172	WA 8150				61	60.5	14.3	32	171
LSD   3   5   7   6   1.8   1.4   3   2     Average   66   81   74   68   59.6   13.9   35   169     Highest   70   90   86   79   61.3   15.2   38   172	WA 8149				57	59.7	12.9	33	171
Average   66   81   74   68   59.6   13.9   35   169     Highest   70   90   86   79   61.3   15.2   38   172	C.V.	14	13	13	7	1.5	5.0	5	1
Highest   70   90   86   79   61.3   15.2   38   172	LSD	3	5	7	6	1.8	1.4	3	2
•	Average	66	81	74	68	59.6	13.9	35	169
<b>Lowest</b> 63 72 60 57 56.4 12.9 31 166	Highest	70	90	86	79	61.3	15.2	38	172
	Lowest	63	72	60	57	56.4	12.9	31	166

## Walla Walla Soft White Spring Wheat – Preliminary Data

- 1. Grain yield in the Walla Walla soft white spring wheat trial averaged 68 bushels/acre, 2 bushel/acre more than the 5-year average. The Walla Walla nursery was located about one mile east of Waitsburg, WA (Glen Smith, cooperator).
- 2. This nursery was seeded on 25 March, 2011 following hard red spring wheat. Seed was placed at an 80#/ acre seeding rate using a double-disc drill set on 6-inch spacing. Base fertilizer was 112 #N applied. Spring seeding was late, but establishment was good.
- 3. Yields ranged from 57 bu/ac to 79 bu/ac. Yield values within the LSD range of the highest yield are shown in bold and 6 of the 24 entries are in this group. Louise was the highest yielding entry in 2011and Alturas was the highest yielding over 5 years of results at this site. Stripe rust was a factor in this trial and fungicide was applied on 18 May and 12 June. The fungicide appears to be effective with no apparent yield loss for susceptible entries. The Lattice design was 204% efficient compared to an RCBD for yield.
- 4. Test weights averaged 59.6 lb/bu and ranged from 56.4 to 61.3 lb/bu. Grain protein was high due to high soil residual N and averaged 13.9% with a range of 12.9 to 15.2%. The average plant height was 35 inches with no lodging.