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

Variety Name "Club Italized         AVERAGE (BU/A)         AVERAGE (BU/A)         AVERAGE (BU/A)         VIELD (BU/A)         TEST WT (LBS/BU)         PROTEIN (%)         PLA HT           Louise-G2         89         61.2         10.1         30           Louise         57         71         80         88         61.6         9.6         33           Babe         53         63         71         83         61.3         9.8         3.3           WA 8124         91         82         61.8         9.6         3.3           Diva         71         79         81         61.5         9.5         33           IDO671         84         81         61.3         9.3         33           WA 8131         85         80         60.7         9.4         33           IDO644         89         58         67         78         60.8         10.1         33           JD         53         65         75         78         62.7         10.4         33           IDO686         76         76         59.7         10.5         33           WA 8128         76         62.0         10.7         33					2011				
Louise								PLANT HT	HEAD DATE
Babe         53         63         71         83         61.3         9.8         33           WA 8124         91         82         61.8         9.6         34           Diva         71         79         81         61.5         9.5         33           ID0671         84         81         61.5         9.5         33           WA 8131         81         61.5         9.9         22           Alturas         55         71         85         80         60.7         9.4         33           ID0644         49         58         67         78         60.8         10.1         33           JD         53         65         75         78         62.7         10.4         33           ID0686         76         78         62.4         9.8         33           ID0687         77         62.3         9.4         33           WA 8128         76         62.0         10.7         33           WA 8150         74         62.0         9.7         33           Eden         50         58         67         73         62.5         9.9         33	uise-G2				89	61.2	10.1	36	168
WA 8124         91         82         61.8         9.6         3           Diva         71         79         81         61.5         9.5         33           ID0671         84         81         61.3         9.3         33           WA 8131         81         61.5         9.9         26           Alturas         55         71         85         80         60.7         9.4         3           ID0644         89         58         67         78         60.8         10.1         33           JD         53         65         75         78         60.8         10.1         33           JD0686         76         78         62.4         9.8         33           ID0687         77         62.3         9.4         33           WA 8128         76         76         59.7         10.5         33           WA 8129         56         66         76         76         59.7         10.5         33           WA 8150         74         62.0         9.8         33           Eden         50         58         67         73         62.5         9.9         33 </td <td>uise</td> <td>57</td> <td>71</td> <td>80</td> <td>88</td> <td>61.6</td> <td>9.6</td> <td>37</td> <td>168</td>	uise	57	71	80	88	61.6	9.6	37	168
Diva         71         79         81         61.5         9.5         33           IDO671         84         81         61.3         9.3         33           WA 8131         81         61.5         9.9         20           Alturas         55         71         85         80         60.7         9.4         33           IDO644         49         58         67         78         60.8         10.1         33           JD         53         65         75         78         62.7         10.4         33           IDO686         76         78         62.7         10.4         33           IDO687         77         62.3         9.4         33           WA 8128         66         76         76         59.7         10.5         33           WA 8150         74         62.0         10.7         33           Eden         50         58         67         73         62.5         9.9         33           Alpowa         51         61         72         71         61.6         8.9         33           WA 8149         71         60.6         9.1         33	be	53	63	71	83	61.3	9.8	34	167
MA 8131	8124			91	82	61.8	9.6	34	172
WA 8131       81       61.5       9.9       22         Alturas       55       71       85       80       60.7       9.4       33         IDO644       89       58       67       78       60.8       10.1       33         Whit       49       58       67       78       62.7       10.4       33         IDO686       75       78       62.7       10.4       33         IDO687       77       62.3       9.4       33         Wakanz       56       66       76       76       59.7       10.5       33         WA 8128       76       62.0       10.7       33         WA 8150       74       62.0       9.8       33         Eden       50       58       67       73       62.5       9.9       33         Alpowa       51       61       72       71       61.6       9.9       34         WA 8149       71       60.6       9.1       33         Wa 8149       71       60.6       9.1       33         Value       51       60       63       68       60.7       9.3       33	⁄a		71	79	81	61.5	9.5	35	170
Alturas 55 71 85 80 60.7 9.4 33  IDO644 8.9 58 67 78 60.8 10.1 33  JD 53 65 75 78 62.7 10.4 33  IDO686 78 62.4 9.8 33  IDO687 77 62.3 9.4 33  Wakanz 56 66 76 76 59.7 10.5 33  WA 8128 76 62.0 10.7 33  WA 8150 76 62.0 10.7 33  Eden 50 58 67 73 62.5 9.9 33  Alpowa 51 61 72 71 61.6 8.9 33  UI-Cataldo 47 59 65 71 60.6 10.0 33  WA 8149 71 60.6 9.1 33  VA 8149 71 60.6 50 71 60.6 9.1 33  VA 8149 71 60.6 63 68 60.7 9.3 33  VA 8149 71 60.6 9.1 33  VA 8149 71 60.6 50 9.1 33  VA 8149 71 60.6 60 60 60 60 60 60 60 60 60 60 60 60 60	D671			84	81	61.3	9.3	32	169
Model	A 8131				81	61.5	9.9	28	171
Whit         49         58         67         78         60.8         10.1         33           JD         53         65         75         78         62.7         10.4         33           IDO686         76         78         62.4         9.8         33           IDO687         76         62.3         9.4         33           Wakanz         56         66         76         76         59.7         10.5         33           WA 8128         76         62.0         10.7         33           WA 8127         75         61.6         9.7         33           Eden         50         58         67         73         62.5         9.9         33           Alpowa         51         61         72         71         61.6         8.9         34           UI-Cataldo         47         59         65         71         60.6         10.0         33           WA 8149         71         60.6         9.1         33           Zak         51         60         63         68         60.7         9.3         33           Zak         51         61         66	uras	55	71	85	80	60.7	9.4	31	168
JD       53       65       75       78       62.7       10.4       33         IDO686       78       62.4       9.8       33         IDO687       77       62.3       9.4       33         Wakanz       56       66       76       76       59.7       10.5       33         WA 8128       76       62.0       10.7       33         WA 8127       75       61.6       9.7       33         WA 8150       74       62.0       9.8       32         Eden       50       58       67       73       62.5       9.9       33         Alpowa       51       61       72       71       61.6       8.9       34         UI-Cataldo       47       59       65       71       60.6       10.0       33         WA 8149       71       60.6       9.1       33         Zak       51       60       63       68       60.7       9.3       33         Zak       51       61       66       67       60.1       10.2       33         WB-1035CL2       64       60       6       6       6       6 <t< td=""><td>0644</td><td></td><td></td><td></td><td>80</td><td>60.4</td><td>8.9</td><td>30</td><td>167</td></t<>	0644				80	60.4	8.9	30	167
IDO686	nit	49	58	67	78	60.8	10.1	33	168
IDO687		53	65	75	78	62.7	10.4	35	171
Wakanz         56         66         76         76         59.7         10.5         33           WA 8128         76         62.0         10.7         33           WA 8127         75         61.6         9.7         33           WA 8150         74         62.0         9.8         32           Eden         50         58         67         73         62.5         9.9         33           Alpowa         51         61         72         71         61.6         8.9         34           Ul-Cataldo         47         59         65         71         60.6         10.0         33           WA 8149         71         60.6         9.1         33           Zak         51         60         63         68         60.7         9.3         32           WB-1035CL2         64         60.9         11.1         33           C.V.         18         16         14         6         0.6         5.9         4           LSD         4         6         8         6         0.4         0.6         6           Average         52         64         74         77	D686				78	62.4	9.8	35	170
WA 8128       76       62.0       10.7       33         WA 8127       75       61.6       9.7       33         WA 8150       74       62.0       9.8       33         Eden       50       58       67       73       62.5       9.9       33         Alpowa       51       61       72       71       61.6       8.9       34         UI-Cataldo       47       59       65       71       60.6       10.0       33         WA 8149       71       60.6       9.1       32         Nick       51       60       63       68       60.7       9.3       32         Zak       51       61       66       67       60.1       10.2       32         WB-1035CL2       64       60.9       11.1       33         C.V.       18       16       14       6       0.6       5.9       4         LSD       4       6       8       6       0.4       0.6       5         Average       52       64       74       77       61.3       9.8       33	0687				77	62.3	9.4	31	170
WA 8127       75       61.6       9.7       33         WA 8150       74       62.0       9.8       33         Eden       50       58       67       73       62.5       9.9       3         Alpowa       51       61       72       71       61.6       8.9       3         UI-Cataldo       47       59       65       71       60.6       10.0       3         WA 8149       71       60.6       9.1       32         Nick       51       60       63       68       60.7       9.3       3         Zak       51       61       66       67       60.1       10.2       3         WB-1035CL2       64       60.9       11.1       3         C.V.       18       16       14       6       0.6       5.9       4         LSD       4       6       8       6       0.4       0.6       5         Average       52       64       74       77       61.3       9.8       33	kanz	56	66	76	76	59.7	10.5	33	174
WA 8150       74       62.0       9.8       32         Eden       50       58       67       73       62.5       9.9       33         Alpowa       51       61       72       71       61.6       8.9       34         Ul-Cataldo       47       59       65       71       60.6       10.0       33         WA 8149       71       60.6       9.1       32         Nick       51       60       63       68       60.7       9.3       32         Zak       51       61       66       67       60.1       10.2       33         WB-1035CL2       64       60.9       11.1       33         C.V.       18       16       14       6       0.6       5.9       4         LSD       4       6       8       6       0.4       0.6       5       9         Average       52       64       74       77       61.3       9.8       33	A 8128				76	62.0	10.7	37	168
Eden         50         58         67         73         62.5         9.9         37           Alpowa         51         61         72         71         61.6         8.9         32           UI-Cataldo         47         59         65         71         60.6         10.0         33           WA 8149         71         60.6         9.1         32           Nick         51         60         63         68         60.7         9.3         32           Zak         51         61         66         67         60.1         10.2         32           WB-1035CL2         64         60.9         11.1         33           C.V.         18         16         14         6         0.6         5.9         4           LSD         4         6         8         6         0.4         0.6         7           Average         52         64         74         77         61.3         9.8         33	A 8127				75	61.6	9.7	33	168
Alpowa       51       61       72       71       61.6       8.9       34         UI-Cataldo       47       59       65       71       60.6       10.0       37         WA 8149       71       60.6       9.1       32         Nick       51       60       63       68       60.7       9.3       32         Zak       51       61       66       67       60.1       10.2       32         WB-1035CL2       64       60.9       11.1       32         C.V.       18       16       14       6       0.6       5.9       4         LSD       4       6       8       6       0.4       0.6       7         Average       52       64       74       77       61.3       9.8       33	A 8150				74	62.0	9.8	32	170
Ul-Cataldo         47         59         65         71         60.6         10.0         37           WA 8149         71         60.6         9.1         32           Nick         51         60         63         68         60.7         9.3         32           Zak         51         61         66         67         60.1         10.2         32           WB-1035CL2         64         60.9         11.1         37           C.V.         18         16         14         6         0.6         5.9         4           LSD         4         6         8         6         0.4         0.6         7           Average         52         64         74         77         61.3         9.8         33	en	50	58	67	73	62.5	9.9	31	167
WA 8149       71       60.6       9.1       32         Nick       51       60       63       68       60.7       9.3       32         Zak       51       61       66       67       60.1       10.2       32         WB-1035CL2       64       60.9       11.1       33         C.V.       18       16       14       6       0.6       5.9       4         LSD       4       6       8       6       0.4       0.6       5         Average       52       64       74       77       61.3       9.8       33	oowa	51	61	72	71	61.6	8.9	34	172
Nick         51         60         63         68         60.7         9.3         32           Zak         51         61         66         67         60.1         10.2         32           WB-1035CL2         64         60.9         11.1         33           C.V.         18         16         14         6         0.6         5.9         4           LSD         4         6         8         6         0.4         0.6         7           Average         52         64         74         77         61.3         9.8         33	Cataldo	47	59	65	71	60.6	10.0	31	165
Zak         51         61         66         67         60.1         10.2         32           WB-1035CL2         64         60.9         11.1         32           C.V.         18         16         14         6         0.6         5.9         4           LSD         4         6         8         6         0.4         0.6         7           Average         52         64         74         77         61.3         9.8         33	A 8149				71	60.6	9.1	32	170
WB-1035CL2         64         60.9         11.1         3           C.V.         18         16         14         6         0.6         5.9         4           LSD         4         6         8         6         0.4         0.6         4           Average         52         64         74         77         61.3         9.8         33	k	51	60	63	68	60.7	9.3	32	169
C.V.     18     16     14     6     0.6     5.9     4       LSD     4     6     8     6     0.4     0.6     6       Average     52     64     74     77     61.3     9.8     33	k	51	61	66	67	60.1	10.2	32	172
LSD     4     6     8     6     0.4     0.6       Average     52     64     74     77     61.3     9.8     33	3-1035CL2				64	60.9	11.1	31	168
Average         52         64         74         77         61.3         9.8         33	<i>I</i> .	18	16	14	6	0.6	5.9	4	0
	D	4	6	8	6	0.4	0.6	1	1
Highest 57 71 91 89 62.7 11.1 3	erage	52	64	74	77	61.3	9.8	33	169
g	jhest	57	71	91	89	62.7	11.1	37	174
<b>Lowest</b> 47 58 63 64 59.7 8.9 28	west	47	58	63	64	59.7	8.9	28	165

## <u>Lamont Soft White Spring Wheat – Preliminary Data</u>

- 1. Grain yield in the Lamont soft white spring wheat trial averaged 77 bushels/acre, 25 bu/acre higher than the 5-year average. The Lamont nursery was located about five miles southeast of Lamont, WA (Gil White, cooperator).
- 2. This nursery was seeded on 18 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 70 #N/acre applied. Spring seeding was late, but establishment was good.
- 3. Yields ranged from 64 bu/acre to 89 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 but was not different than Louise with the standard seed treatment. Stripe rust was a factor in this trial but no fungicide was applied. There appears to be an impact on yield by stripe rust for susceptible entries of 20% or more. The Lattice design was 122% efficient compared to an RCBD for yield.
- 4. Test weights were good averaging 61.3 lb/bu and ranged from 59.7 to 62.7 lb/bu. Grain protein averaged 9.8% with a range of 8.9 to 11.1%. The average plant height was 33 inches with no lodging.