

Table 1. Mean grain yield, percent protein, test weight, plant height, and percent lodging of irrigated soft white winter wheat. Parma, 2008

Entry	Grain Yd <sup>1</sup> bu/A	Protein %	Test Wt. lb/bu	Plant Ht. in	Lodging %
98-19010A	160	8.4	59.4	36	0
Bitterroot	155	8.8	59.0	42	0
Goetze	153	9.3	57.8	33	0
ID00-475-2dh	161	8.9	61.2	38	0
ID02-859	145	8.7	57.3	35	0
ID93-64901A	163	7.9	58.9	39	0
ID99-419	155	8.2	59.5	38	0
ID99-435	156	8.3	58.7	41	0
ID-D-05	152	8.6	60.9	36	0
Malcolm	150	8.3	59.4	38	0
ORCF102	143	8.8	59.5	38	0
Stephens	157	8.8	58.1	37	0
Tubbs06	155	8.4	58.3	40	0
WB 528	159	8.8	60.1	34	0
Average	155	8.6	59.1	38	0
LSD <sub>.10</sub> <sup>2</sup>	9	0.5	0.4	2	0

<sup>1</sup>Grain yield is based on a test weight of 60 lb/bu for wheat, after correction of dry weight to a moisture content of 11%.

<sup>2</sup>Means must differ by more than the LSD<sub>.10</sub> to be statistically different at the 10% probability level.

Table 2. Mean grain yield, percent protein, test weight, plant height, and percent lodging of irrigated hard winter wheat. Parma, 2008

Entry	Grain Yd <sup>1</sup> bu/A	Protein %	Test Wt. lb/bu	Plant Ht. in	Lodging %
<i>Winter hard reds</i>					
Hoff	141	9.7	61.7	38	0
ID0621	146	9.5	61.0	36	0
ID0653	137	9.7	62.2	49	5
Moreland	141	10.0	59.5	37	0
WB936 (HRS)	130	9.8	62.4	33	0
<i>Winter hard whites</i>					
Darwin	129	10.3	62.5	46	10
Gary	132	9.8	59.7	46	15
Ivory	149	9.4	60.2	40	0
NuHorizon	149	9.7	62.1	35	0
Average	140	9.8	61.3	40	3
LSD <sub>.10</sub> <sup>2</sup>	11	0.4	0.7	1	9

<sup>1</sup>Grain yield is based on a test weight of 60 lb/bu for wheat, after correction of dry weight to a moisture content of 11%.

<sup>2</sup>Means must differ by more than the LSD<sub>.10</sub> to be statistically different at the 10% probability level.

Table 3. Mean grain yield, test weight, plant height, and percent lodging of irrigated fall planted winter and spring barley genotypes. Parma, 2008

Entry	Grain Yd <sup>1</sup> bu/A	Test Wt. lb/bu	Plant Ht. in	Lodging %	Thins %
<i>Winter</i>					
Charles	173	52.1	33	2	0.8
Maja	194	53.6	41	3	1.9
Strider	200	51.3	39	10	1.2
Sunstar Pride	212	52.7	34	0	1.9
Average	195	52.4	37	4	1.5
LSD <sub>.10</sub> <sup>2</sup>	10	0.4	2	14	0.7

<sup>1</sup>Grain yield is based on a test weight of 60 lb/bu for barley, after correction of dry weight to a moisture content of 11%.

<sup>2</sup>Means must differ by more than the LSD<sub>.10</sub> to be statistically different at the 10% probability level.

Table 4. Mean grain yield, percent protein, test weight, plant height, and percent lodging of irrigated soft white winter wheat. Weiser, 2008

Entry	Grain Yd <sup>1</sup> bu/A	Protein %	Test Wt. lb/bu	Plant Ht. in	Lodging %
98-19010A	130	10.8	60.0	29	0
Bitterroot	117	10.5	58.7	36	1
Goetze	131	11.7	57.7	31	0
ID00-475-2dh	122	10.0	60.4	34	0
ID02-859	124	12.1	56.2	32	0
ID0655	115	12.9	59.1	39	14
ID93-64901A	140	11.4	59.0	36	4
ID99-419	133	11.0	57.8	36	0.3
ID99-435	122	12.1	57.9	38	0
ID-D-05	124	12.0	61.1	33	0
Malcolm	125	11.2	56.4	34	3
ORCF102	127	12.1	59.0	36	0
Stephens	132	12.9	57.7	33	0
Tubbs06	117	11.5	55.9	37	1
WB 528	122	11.5	60.6	33	0
Average	125	11.6	58.5	34	2
LSD <sub>.10</sub> <sup>2</sup>	15	2.2	1.4	2	6

<sup>1</sup>Grain yield is based on a test weight of 60 lb/bu for wheat, after correction of dry weight to a moisture content of 11%.

<sup>2</sup>Means must differ by more than the LSD<sub>.10</sub> to be statistically different at the 10% probability level.

Table 5. Mean grain yield, percent protein, test weight, plant height, and percent lodging of irrigated hard winter wheat. Weiser, 2008

Entry	Grain Yd <sup>1</sup> bu/A	Protein %	Test Wt. lb/bu	Plant Ht. in	Lodging %
<i>Winter hard reds</i>					
Hoff	129	12.9	61.1	35	1
ID621	124	12.7	60.4	34	4
ID653	105	13.6	60.7	51	28
Moreland	126	12.9	59.2	32	0
<i>Winter hard whites</i>					
Darwin	112	13.8	60.4	43	30
Gary	108	13.2	57.0	42	48
Ivory	131	12.6	59.8	37	5
NuHorizon	139	13.2	62.5	33	1
<i>Spring hard wheat</i>					
WB 936 (HRS)	128	13.3	60.5	36	10
Average	122	13.1	60.2	38	14
LSD <sub>.10</sub> <sup>2</sup>	9	1.1	1.2	1	16

<sup>1</sup>Grain yield is based on a test weight of 60 lb/bu for wheat, after correction of dry weight to a moisture content of 11%.

<sup>2</sup>Means must differ by more than the LSD<sub>.10</sub> to be statistically different at the 10% probability level.

Table 6. Mean grain yield, test weight, plant height, and percent lodging of irrigated fall planted winter and spring barley genotypes. Weiser, 2008

Entry	Grain Yd <sup>1</sup> bu/A	Test Wt. lb/bu	Plant Ht. in	Lodging %	Thins %
<i>Winter</i>					
Charles	122	48.2	24	14	2.7
Maja	140	51.9	25	0	1.8
Strider	154	49.8	24	3	1.3
Sunstar Pride	180	48.4	27	25	6.1
Average	149	49.5	25	10	3.0
LSD <sub>.10</sub> <sup>2</sup>	30	2.1	4	24	1.9

<sup>1</sup>Grain yield is based on a test weight of 48 lb/bu for barley, after correction of dry weight to a moisture content of 11%.

<sup>2</sup>Means must differ by more than the LSD<sub>.10</sub> to be statistically different at the 10% probability level.

Table 7. Mean grain yield, percent protein, test weight, plant height, and percent lodging of late planted irrigated soft white winter wheat. Parma, 2008

Entry	Grain Yd <sup>1</sup> bu/A	Protein %	Test Wt. lb/bu	Plant Ht. in	Lodging %
98-19010A	146	9.7	60.0	35	0
Bitterroot	143	10.4	60.3	42	0
Goetze	134	10.3	58.7	34	0
ID00-475-2dh	144	9.7	61.6	37	0
ID02-859	124	9.9	57.5	34	0
ID0655	131	10.4	60.5	44	0
ID629 (waxy)	131	10.8	61.7	41	0
ID630 (waxy)	128	10.8	61.7	36	0
ID93-64901A	149	9.3	59.9	38	0
ID99-419	139	9.0	59.4	37	0
ID99-435	143	10.4	59.6	42	0
ID-D-05	142	10.7	61.5	37	0
Malcolm	128	9.4	59.9	38	0
ORCF-102	135	10.5	59.7	38	0
Stephens	142	9.8	59.0	36	0
Tubbs06	143	9.3	59.0	41	0
WB 528	129	10.3	60.7	36	0
Average	137	10.0	60.0	38	0
LSD <sub>.10</sub> <sup>2</sup>	10	0.7	0.7	1	0

<sup>1</sup>Grain yield is based on a test weight of 60 lb/bu for wheat, after correction of dry weight to a moisture content of 11%.

<sup>2</sup>Means must differ by more than the LSD<sub>.10</sub> to be statistically different at the 10% probability level.

Table 8. Mean grain yield, percent protein, test weight, plant height, and percent lodging of late planted irrigated hard winter and spring wheat genotypes. Parma, 2008

Entry	Grain Yd <sup>1</sup> bu/A	Protein %	Test Wt. lb/bu	Plant Ht. In	Lodging %
<i>Winter hard reds</i>					
Esparia	123	11.7	61.1	32	0
Hoff	111	12.2	61.7	37	0
ID621	139	12.1	62.5	36	0
ID653	113	12.8	62.6	49	0
Moreland	129	12.5	61.1	35	0
<i>Winter hard whites</i>					
Darwin	115	12.8	63.4	44	0.3
Gary	119	12.0	61.4	43	0.3
Ivory	139	11.8	61.6	39	0
Mieti	115	12.2	61.0	27	0
Mol	95	14.1	60.8	30	0
NuHorizon	129	12.1	63.6	34	0
<i>Spring hard wheats</i>					
KW070521 (HRS)	112	12.6	63.0	36	0
Sagittario (HRS)	118	12.7	60.7	29	0
Vailoet (HWS)	115	12.7	61.6	27	0
WB 936 (HRS)	129	11.7	62.8	35	0
Average	120	12.4	61.9	36	0.03
LSD <sub>.10</sub> <sup>2</sup>	8	0.6	0.5	2	0.2

<sup>1</sup>Grain yield is based on a test weight of 60 lb/bu for wheat, after correction of dry weight to a moisture content of 11%.

<sup>2</sup>Means must differ by more than the LSD<sub>.10</sub> to be statistically different at the 10% probability level.

Table 9. Mean grain yield, percent protein, test weight, plant height, and percent lodging of late planted irrigated soft white winter wheat. Bruneau, 2008

Entry	Grain Yd <sup>1</sup> bu/A	Protein %	Test Wt. lb/bu	Plant Ht. in	Lodging %
98-19010A	126	12.3	60.4	28	0
Bitterroot	125	13.0	60.0	33	0
Goetze	122	12.9	58.1	29	0
ID00-475-2dh	137	13.3	61.6	32	0
ID02-859	116	12.9	56.4	30	0
ID0629 (waxy)	107	13.1	61.1	33	0
ID0630 (waxy)	107	13.9	61.0	30	0
ID0655	117	13.4	60.0	36	0
ID93-64901A	124	12.4	59.6	32	0
ID99-419	130	12.6	60.5	32	0
ID99-435	116	14.1	57.7	35	0
ID-D-05	124	13.7	62.0	31	0
Malcolm	112	13.3	57.9	31	0
ORCF-102	119	12.9	58.7	32	0
Stephens	121	13.1	59.0	30	0
Tubbs06	134	13.2	58.1	35	0
WB 528	119	13.4	60.7	31	1
Average	121	13.1	59.6	32	0.1
LSD <sub>.10</sub> <sup>2</sup>	16	0.7	0.6	2	1

<sup>1</sup>Grain yield is based on a test weight of 60 lb/bu for wheat, after correction of dry weight to a moisture content of 11%.

<sup>2</sup>Means must differ by more than the LSD<sub>.10</sub> to be statistically different at the 10% probability level.

Table 10. Mean grain yield, percent protein, test weight, plant height, and percent lodging of late planted irrigated hard winter and spring wheat genotypes. Bruneau, 2008

Entry	Grain Yd <sup>1</sup> bu/A	Protein %	Test Wt. lb/bu	Plant Ht. in	Lodging %
<i>Winter hard reds</i>					
Hoff	115	13.8	60.9	32	0
ID0621	124	13.0	61.7	30	1
ID0653(im)	110	14.5	61.9	40	8
Moreland	126	14.3	59.8	27	0
<i>Winter hard whites</i>					
Darwin	114	13.8	62.7	36	5
Gary	112	13.4	60.3	34	6
Ivory	122	12.9	60.7	33	0.3
NuHorizon	107	13.8	62.8	28	0
<i>Spring hard wheat</i>					
WB 936 (HRS)	103	15.6	61.2	29	0
Average	115	13.9	61.3	32	2
LSD <sub>.10</sub> <sup>2</sup>	19	2.9	0.4	3	9

<sup>1</sup>Grain yield is based on a test weight of 60 lb/bu for wheat, after correction of dry weight to a moisture content of 11%.

<sup>2</sup>Means must differ by more than the LSD<sub>.10</sub> to be statistically different at the 10% probability level.

Table 11. Mean grain yield, percent protein, test weight, plant height, and percent lodging of dry land soft white winter wheat. Emmett, 2008

Entry	Grain Yd <sup>1</sup> bu/A	Protein %	Test Wt. lb/bu	Plant Ht. in	Lodging %
Eltan	24	12.4	54.0	22	0
Goetze	25	12.9	53.9	19	0
Hubbard	22	13.3	54.8	22	0
ID0587	23	13.7	53.4	20	0
ID0620	30	11.4	55.5	22	0
ID-D-05	24	13.2	56.5	20	0
Malcolm	24	12.1	54.6	22	0
ORCF-102	21	13.7	54.8	18	0
Simon	24	12.0	53.8	21	0
Stephens	25	12.2	54.1	20	0
Tubbs	26	12.3	53.0	22	0
Tubbs06	28	10.9	54.3	23	0
WB528	28	12.4	56.9	21	0
Average	25	12.5	54.6	21	0
LSD <sub>.10</sub> <sup>2</sup>	5	1.2	0.8	3	0

<sup>1</sup>Grain yield is based on a test weight of 60 lb/bu for wheat, after correction of dry weight to a moisture content of 11%.

<sup>2</sup>Means must differ by more than the LSD<sub>.10</sub> to be statistically different at the 10% probability level.

Table 12. Mean grain yield, percent protein, test weight, plant height, and percent lodging of dryland hard winter wheat. Emmett, 2008

Entry	Grain Yd <sup>1</sup> bu/A	Protein %	Test Wt. lb/bu	Plant Ht. in	Lodging %
<i>Hard white winter</i>					
Darwin	33	12.7	58.7	28	0
Gary	28	13.2	57.9	26	0
Ivory	35	12.2	56.7	27	0
<i>Hard red winter</i>					
Boundary	28	13.0	54.7	22	0
Buchanan	33	12.1	55.0	28	0
Finley	27	12.6	59.3	25	0
Hoff	32	11.9	58.6	25	0
ID0653	33	12.3	57.7	29	0
Juniper	31	13.0	58.2	33	0
Moreland	28	13.1	56.9	19	0
Promontory	35	12.4	60.0	25	0
Utah 100	31	13.1	53.5	28	0
Average	31	12.6	57.3	26	0
LSD <sub>.10</sub> <sup>2</sup>	7	1.0	1.9	4	0

<sup>1</sup>Grain yield is based on a test weight of 60 lb/bu for wheat, after correction of dry weight to a moisture content of 11%.

<sup>2</sup>Means must differ by more than the LSD<sub>.10</sub> to be statistically different at the 10% probability level.

Table 13. Mean grain yield, percent protein, test weight, plant height, and percent lodging of irrigated soft white spring wheat. Parma, 2008

Entry	Grain Yd <sup>1</sup> bu/A	Protein %	Test Wt. lb/bu	Plant Ht. in	Lodging %
Alturas	114	9.5	60.5	36	0
Cataldo	104	10.2	60.3	34	0
ID0629 (waxy)	113	10.2	61.8	39	0
ID0630(waxy)	102	10.2	61.2	35	0
ID0645	116	9.3	61.7	37	0
Jubilee	113	9.3	61.7	38	0
Nick	102	9.5	61.1	36	0
Penawawa	115	9.2	61.3	36	0
PenawawaX (waxy)	115	9.9	60.8	36	0
Pettit	107	9.1	60.4	31	0
Average	110	9.7	61.1	36	0
LSD <sub>.10</sub> <sup>2</sup>	10	0.6	0.4	2	0

<sup>1</sup>Grain yield is based on a test weight of 60 lb/bu for wheat, after correction of dry weight to a moisture content of 11%.

<sup>2</sup>Means must differ by more than the LSD<sub>.10</sub> to be statistically different at the 10% probability level.

Table 14. Mean grain yield, percent protein, test weight, plant height, and percent lodging of irrigated hard spring wheat. Parma, 2008

Entry	Grain Yd <sup>1</sup> bu/A	Protein %	Test Wt. lb/bu	Plant Ht. in	Lodging %
<i>Hard Red</i>					
Dannyboy	100	12.3	58.4	35	0
Jefferson	101	12.2	61.7	37	0
Jerome	107	12.2	61.8	35	0
WB 936	99	12.6	61.3	32	0
Winchester (578)	99	12.4	62.3	36	0
<i>Hard White</i>					
Lochsa	105	12.1	61.4	36	0
Lolo	110	11.7	63.5	39	0
Otis	112	11.8	63.1	41	0
Average	104	12.2	61.7	36	0
LSD <sub>.10</sub> <sup>2</sup>	10	0.3	0.5	1	0

<sup>1</sup>Grain yield is based on a test weight of 60 lb/bu for wheat, after correction of dry weight to a moisture content of 11%.

<sup>2</sup>Means must differ by more than the LSD<sub>.10</sub> to be statistically different at the 10% probability level.

Table 15. Mean grain yield, test weight, plant height, lodging, and thins of irrigated spring barley. Parma, 2008

Entry	Grain Yd <sup>1</sup> bu/A	Test Wt. lb/bu	Plant Ht. in	Lodging %	Thins %
<i>Two row</i>					
Champion	145	55.6	35	0	0.7
Idagold	137	53.6	28	0	0.9
Merlin	114	61.2	24	0	1.9
Radiant	136	54.6	35	0.3	1.5
Salute	127	54.5	34	0	0.6
Spaulding R579-1	137	55.5	33	0	0.9
WA10701-99	123	50.6	37	0	0.8
<i>Six row</i>					
Aquila	118	54.1	33	0	0.6
BG006	96	50.1	24	0	0.4
Creel	135	52.4	34	0	1.1
Goldeneye	138	53.8	32	0	0.6
Millennium	127	50.7	31	0	1.4
Nebula	115	49.5	26	0	0.5
Average	127	53.6	31	0.2	0.9
LSD <sub>.10</sub> <sup>2</sup>	16	0.6	2	0.0	0.5

<sup>1</sup>Grain yield is based on a test weight of 48 lb/bu for barley, after correction of dry weight to a moisture content of 11%.

<sup>2</sup>Means must differ by more than the LSD<sub>.10</sub> to be statistically different at the 10% probability level.

Table 16. Mean grain yield, percent protein, test weight, plant height, and percent lodging of irrigated soft white spring wheat. Weiser, 2008

Entry	Grain Yd <sup>1</sup> bu/A	Protein %	Test Wt. lb/bu	Plant Ht. in	Lodging %
Alturas	111	11.9	59.5	38	0
Cataldo	111	12.4	59.4	36	0
ID0629 (waxy)	98	12.4	58.6	38	0
ID0630 (waxy)	101	13.2	58.4	36	0
ID0645	124	12.4	61.6	40	0
Jubilee	111	12.3	59.9	39	0
Nick	113	12.8	59.5	38	0
Penawawa	102	13.6	58.3	38	2
PenawawaX (waxy)	103	13.3	59.1	35	13
Pettit	120	11.6	61.6	31	0
Average	109	12.6	59.6	37	1
LSD <sub>.10</sub> <sup>2</sup>	11	0.9	1.8	2	10

<sup>1</sup>Grain yield is based on a test weight of 60 lb/bu for wheat, after correction of dry weight to a moisture content of 11%.

<sup>2</sup>Means must differ by more than the LSD<sub>.10</sub> to be statistically different at the 10% probability level.

Table 17. Mean grain yield, percent protein, test weight, plant height, and percent lodging of irrigated hard spring wheat. Weiser, 2008

Entry	Grain Yd <sup>1</sup> bu/A	Protein %	Test Wt. lb/bu	Plant Ht. in	Lodging %
<i>Hard Red</i>					
Dannyboy	97	14.4	54.6	37	0
Jefferson	102	13.9	59.6	38	15
Jerome	106	13.8	59.2	36	0
WB 936	113	14.1	58.7	34	0
Winchester	107	14.0	60.8	38	0
<i>Hard White</i>					
Lochsa	107	14.3	58.2	37	0
Lolo	104	13.6	60.1	38	19
Otis	100	13.8	60.0	42	0
Average	105	14.0	58.9	37	4
LSD <sub>.10</sub> <sup>2</sup>	8	0.3	1.6	2	19

<sup>1</sup>Grain yield is based on a test weight of 60 lb/bu for wheat, after correction of dry weight to a moisture content of 11%.

<sup>2</sup>Means must differ by more than the LSD<sub>.10</sub> to be statistically different at the 10% probability level.

Table 18. Mean grain yield, percent protein, test weight, plant height, and percent lodging of irrigated soft white spring wheat. Kuna, 2008

Entry	Grain Yd <sup>1</sup> bu/A	Protein %	Test Wt. lb/bu	Plant Ht. in	Lodging %
Alturas	113	10.0	60.7	35	0
Cataldo	108	10.4	61.3	33	0
ID0629 (waxy)	114	10.5	60.8	35	0
ID0630 (waxy)	109	10.7	61.8	33	0
ID0645	118	9.4	62.2	33	0
Jubilee	109	9.6	62.0	35	0
Nick	117	10.0	61.3	35	2
Penawawa	117	10.1	61.7	34	0
PenawawaX (waxy)	111	10.2	61.0	32	0
Pettit	128	9.4	61.8	32	0
Average	114	10.0	61.5	34	0.2
LSD <sub>.10</sub> <sup>2</sup>	8	0.4	0.9	1	1

<sup>1</sup>Grain yield is based on a test weight of 60 lb/bu for wheat, after correction of dry weight to a moisture content of 11%.

<sup>2</sup>Means must differ by more than the LSD<sub>.10</sub> to be statistically different at the 10% probability level.

Table 19. Mean grain yield, percent protein, test weight, plant height, and percent lodging of irrigated hard spring wheat. Kuna, 2008

Entry	Grain Yd <sup>1</sup> bu/A	Protein %	Test Wt. lb/bu	Plant Ht. in	Lodging %
<i>Hard Red</i>					
Jefferson	108	12.9	61.9	35	3
Jerome	101	13.0	60.1	33	0
WB 936	106	13.4	59.6	32	0
Winchester	99	13.1	61.5	33	0
<i>Hard White</i>					
Lochsa	116	13.2	60.9	35	0
Lolo	108	12.8	61.8	36	0
Otis	117	12.7	62.5	39	0
Average	108	13.0	61.2	35	0.4
LSD <sub>.10</sub> <sup>2</sup>	12	0.3	1.4	1	2

<sup>1</sup>Grain yield is based on a test weight of 60 lb/bu for wheat, after correction of dry weight to a moisture content of 11%.

<sup>2</sup>Means must differ by more than the LSD<sub>.10</sub> to be statistically different at the 10% probability level.