

Table 12. Quality characteristics of winter wheat varieties and breeding lines (2015 crop). Evaluations made by Western Wheat Quality Lab - Pullman, Washington

Variety or line	Location	Class	Test wt. (lbs/bu)	Single Kernel Test Results			Wheat protein** (percent)	Flour Characteristics				Mixing Characteristics		Baking Characteristics	
				Hardness	Weight	Size		Flour Yield	Ash	Flour Protein	Absorption	Mix Type	Mix Time	Volume (cc's)	Crumb Quality
CACHE	Bluecreek	HRW	57.5	65.4±20.9	28.2±9.2	2.5±0.3	17.1	62.5	0.4	14.90	71.7	1H	2.1	1030	7
HANSEL	Bluecreek	HRW	56.4	68.1±19.1	25.5±7.3	2.4±0.3	17.0	64.4	0.4	15.20	69.9	5H	5.3	1180	4
PROMONTORY	Bluecreek	HRW	58.9	78.8±17.1	27.2±6.7	2.5±0.3	14.3	65.3	0.3	12.80	66.9	5M	3.9	1065	4
UTAH100	Bluecreek	HRW	59.1	77.6±19.3	26.1±6.4	2.5±0.3	15.7	63.9	0.4	13.70	68.6	5M	3.9	1180	2
GOLDEN SPIKE	Bluecreek	HRW	56.2	71.8±19	24.2±6.7	2.4±0.3	14.8	65.0	0.3	13.10	66.9	4H	3.5	1130	3
DELORIS	Bluecreek	HRW	56.1	62.7±21.5	26.7±7.8	2.4±0.3	15.8	67.2	0.3	14.30	69.4	4H	4.1	1210	3
SILVER	Bluecreek	HRW	60.1	80.4±19.1	23.4±6.9	2.4±0.3	15.1	64.0	0.4	13.40	66.9	6H	7.4	1175	2
YELLOWSTONE	Bluecreek	HRW	55.9	76.4±20.4	25.9±6.3	2.4±0.3	16.1	62.1	0.4	14.30	68.8	7H	8.1	1080	4
CURLEW	Bluecreek	HRW	58.3	70.9±16	25.6±5.7	2.5±0.3	14.1	65.5	0.4	13.00	65.8	3H	3.7	1085	5
LUCINCL	Bluecreek	HRW	57.8	68.1±20.2	25.9±7	2.4±0.3	15.0	67.5	0.4	13.40	68.8	3H	3.6	1150	5
SRG	Bluecreek	HRW	57.6	71.9±19.1	31.4±9.2	2.6±0.3	14.9	64.7	0.4	13.20	69.7	4H	4.2	1040	3
BRAWLCLPLUS	Bluecreek	HRW	62.2	69.3±17.4	31.1±7.2	2.6±0.3	14.3	63.9	0.4	12.80	65.4	4M	3.5	965	4
9506-67	Bluecreek	HRW	55.4	74.6±17.6	24.7±5.9	2.4±0.3	15.8	62.8	0.3	14.40	68.5	5H	4.0	1100	4
10003-60	Bluecreek	HRW	55.4	69.2±18.1	24.9±7.4	2.4±0.2	14.7	64.7	0.4	12.90	68.3	7H	7.0	1080	3
UT9909-43	Bluecreek	HRW	55.7	71±19.6	25.4±6.5	2.4±0.3	14.3	66.0	0.4	13.30	65.7	4H	4.0	1100	3
UT10113-9	Bluecreek	HRW	52.2	56.3±19.5	24.5±6.2	2.4±0.2	16.4	62.4	0.4	14.20	67.5	4H	3.9	1145	3
UT10206-136	Bluecreek	HRW	52.2	57.7±17.8	23.2±5.8	2.4±0.3	16.6	63.5	0.4	14.10	69.8	4H	4.4	1170	4
UT10210-123	Bluecreek	HRW	59.6	74.9±18.1	29.7±8.2	2.6±0.3	13.3	66.3	0.3	12.10	69.1	4H	4.2	1075	4
UT10101-94	Bluecreek	HRW	60.0	77±14			14.2	66.3	0.3	12.50	67.4	5H	6.6	1095	4
UT10205-21	Bluecreek	HRW	56.8	68.4±17.5	25.8±6.7	2.4±0.3	14.2	67.0	0.3	12.80	65.7	5H	5.5	1110	4
UT10309-94	Bluecreek	HRW	55.7	75.5±19.3	24.9±7.1	2.4±0.3	15.7	64.0	0.3	13.10	68.2	5H	4.7	1155	3
UT10502-11	Bluecreek	HRW	56.3	78.6±20	20.1±5.7	2.2±0.2	14.9	65.6	0.4	13.60	67.4	5H	5.1	1115	4
UT10514-3	Bluecreek	HRW	57.7	76.1±17.8	20.2±5.7	2.3±0.3	14.0	65.7	0.4	12.60	64.8	4H	4.2	1050	4
UT10516-2	Bluecreek	HRW	57.8	76.5±15.8	28.3±7.2	2.5±0.3	14.3	63.9	0.4	13.00	65.9	4H	4.2	1050	5
UT10502-1	Bluecreek	HRW	57.5	79.3±18.5	22.6±6	2.4±0.3	15.0	63.9	0.4	13.20	64.5	3H	3.5	1030	4
UT10601-1	Bluecreek	HRW	57.3	67.6±19.1	24.2±6.7	2.4±0.3	15.9	67.0	0.3	14.50	67.2	5H	5.5	1080	3
UT10602-9	Bluecreek	HRW	59.4	73.4±18.4	28.3±8.7	2.5±0.3	13.9	67.4	0.4	12.40	66.0	3H	3.1	1015	4
UT10414-16	Bluecreek	HRW	59.2	73.5±15.5	28.5±6.5	2.6±0.3	14.6	65.2	0.5	13.30	66.9	5H	5.5	1060	5
UT10501-9	Bluecreek	HRW	59.6	83.7±19.1	29±7.6	2.8±0.4	13.2	60.7	0.5	11.90	66.4	5H	3.9	920	5
UT10502-5	Bluecreek	HRW	58.6	79.4±19.1	22.2±6.8	2.4±0.3	14.4	66.1	0.4	13.10	64.7	4H	3.3	1140	4
UT10502-8	Bluecreek	HRW	58.2	78.2±16.1	22±5.1	2.4±0.2	13.9	63.1	0.5	11.80	63.8	5H	4.3	1105	4
UT10513-8	Bluecreek	HRW	58.9	69.2±17	28.6±7.8	2.5±0.3	13.1	66.2	0.5	11.90	64.8	6M	4.4	1000	5
UT10516-7	Bluecreek	HRW	57.0	77.4±21	25±6	2.4±0.2	14.7	64.3	0.4	13.20	64.9	3H	2.9	1125	4
UT10613-2	Bluecreek	HRW	59.8	63.3±15.7	32±7.6	2.7±0.3	14.1	67.5	0.4	12.80	65.8	4H	4.1	1110	3
UT10606-3	Bluecreek	HRW	58.8	69.1±18.4	31.4±9.1	2.7±0.4	13.0	62.5	0.5	11.20	65.9	5M	4.2	875	7
UT10606-10	Bluecreek	HRW	57.3	71.8±19.2	23.9±7.2	2.4±0.3	15.6	65.8	0.4	14.60	66.9	6H	6.2	1225	4
UT10208-1	Bluecreek	HRW	56.9	75.3±19.2	25.1±6.9	2.4±0.3	15.6	66.0	0.4	13.70	67.7	4H	3.9	1175	4
UT10305-58	Bluecreek	HRW	58.7	72.4±18.4	27.2±7.9	2.5±0.3	11.8	64.9	0.5	10.80	61.9	6H	5.1	905	4
UT10309-95	Bluecreek	HRW	59.2	79.6±16.7	26.2±6.4	2.5±0.3	14.6	64.4	0.4	12.80	64.0	4H	4.5	975	4
UT10309-105	Bluecreek	HRW	58.3	78.5±17	24.6±7	2.5±0.3	14.4	64.2	0.5	12.80	65.0	5H	4.5	985	3
UT10313-26	Bluecreek	HRW	57.0	76.1±21	24.3±6.4	2.4±0.2	15.4	62.8	0.5	13.70	67.4	4H	5.2	1215	4

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				Hardness	Weight	Size		Flour Yield	Ash	Flour Protein	Absorption	Mix Type	Mix Time	Volume (cc's)	Crumb Quality
UT10313-33	Bluecreek	HRW	52.5	65.9±25	22.1±7.4	2.3±0.3	16.1	59.8	0.4	14.30	66.5	4H	4.6	1270	3
UT10313-36	Bluecreek	HRW	52.3	71±21.3	22.1±6.4	2.4±0.3	15.8	61.3	0.4	13.90	69.7	5H	5.1	1240	3
UT10410-73	Bluecreek	HRW	56.1	73.3±21.4	25.2±7.1	2.4±0.3	15.0	61.8	0.4	13.50	65.8	6H	6.1	1090	4
UT10415-22	Bluecreek	HRW	55.8	72.6±17.8	26±7.2	2.5±0.3	14.5	63.6	0.4	12.70	67.2	5H	4.5	1010	4
UT10415-29	Bluecreek	HRW	55.5	69.6±18.3	26±7	2.5±0.3	16.4	61.7	0.4	14.20	67.7	5H	5.5	1085	4
UT10415-119	Bluecreek	HRW	55.5	68.4±19.5	25.8±7.2	2.4±0.3	16.6	62.4	0.5	15.10	70.4	4H	4.5	1190	4
UT10415-141	Bluecreek	HRW	56.5	77.3±19	25.5±6.6	2.5±0.3	14.7	63.1	0.4	12.90	63.9	4H	4.5	1050	4
UT10502-9	Bluecreek	HRW	59.3	71.3±21.1	28.4±7.7	2.5±0.3	14.6	66.8	0.4	12.80	64.9	4H	3.6	1040	4
UT10506-10	Bluecreek	HRW	57.8	70.1±17.9	27.3±7.1	2.5±0.3	15.2	64.4	0.5	13.10	65.9	4H	4.5	1110	3
UT10517-9	Bluecreek	HRW	58.3	71.1±18.3	28.9±7.5	2.6±0.3	14.9	64.4	0.5	13.50	68.2	6H	5.3	1055	4
UT10601-3	Bluecreek	HRW	54.8	57.3±24.7	27.7±8.7	2.5±0.3	16.4	64.1	0.4	14.90	68.3	4H	3.9	1275	2
UT10603-11	Bluecreek	HRW	56.1	75.6±17.5	26.2±6.7	2.5±0.3	14.9	64.6	0.5	13.40	66.5	4H	3.7	1140	4
UT10605-5	Bluecreek	HRW	54.7	71±18.5	26.8±7.7	2.5±0.4	16.9	61.9	0.5	14.60	67.4	4H	4.0	1130	4
UT10606-1	Bluecreek	HRW	54.6	63.1±18.6	26.2±7.9	2.4±0.3	14.2	64.4	0.4	12.30	66.8	5H	5.1	1075	4
UT10609-6	Bluecreek	HRW	57.0	66.8±17	29.3±8.1	2.5±0.3	15.5	66.7	0.4	13.80	67.3	7H	7.3	1005	4
UT10610-15	Bluecreek	HRW	57.5	73.6±17	25.8±6.9	2.5±0.3	14.3	64.6	0.5	13.10	65.9	4H	5.0	1110	4
UT10612-12	Bluecreek	HRW	57.4	67±17.5	30.6±7.8	2.7±0.3	16.1	62.5	0.4	14.00	68.9	4H	5.5	1125	4
UT10801-1	Bluecreek	HRW	56.6	70.8±19.6	27.8±7.9	2.5±0.3	16.1	64.9	0.4	14.30	70.9	6H	6.4	1105	4
UT10801-4	Bluecreek	HRW	60.4	73.6±17.5	30.9±7.1	2.6±0.3	14.0	66.9	0.4	14.30	64.9	7H	8.1	1000	4
UT10801-8	Bluecreek	HRW	56.1	74.3±18.5	23.3±6.4	2.4±0.2	16.2	63.5	0.4	14.60	68.3	4H	3.6	1220	5
UT10802-1	Bluecreek	HRW	62.2	78±15	±	±	12.9	60.6	0.4	11.40	69.5	4H	3.0	975	4
UT10802-2	Bluecreek	HRW	59.6	63.2±17.6	32.7±9.4	2.6±0.3	13.1	70.0	0.4	11.40	65.3	3H	2.9	1000	6
UT10802-5	Bluecreek	HRW	62.5	77.5±16.8	29.6±6.1	2.7±0.3	14.3	63.4	0.4	12.40	65.6	2H	2.3	985	7
UT10803-4	Bluecreek	HRW	59.8	81.1±18.5	25.9±6.7	2.5±0.3	14.7	66.0	0.4	13.10	66.1	4H	3.9	1080	4
UT10803-9	Bluecreek	HRW	58.7	72.7±15.8	29.7±7.1	2.6±0.3	14.1	64.8	0.5	12.30	65.0	2H	2.5	990	5
UT10804-2	Bluecreek	HRW	57.5	72.7±19.4	25.2±7.3	2.4±0.3	15.1	66.6	0.4	13.30	65.8	5H	4.6	1160	3
UT10804-4	Bluecreek	HRW	56.9	77.8±16.6	25.7±7.1	2.5±0.3	14.6	63.1	0.5	13.50	67.7	4H	4.6	1080	3
UT10804-10	Bluecreek	HRW	58.0	77.3±16.6	26.7±7.8	2.5±0.3	15.2	62.9	0.4	13.60	65.9	6H	5.6	1040	4
UT10806-5	Bluecreek	HRW	58.5	73.9±16.7	26.6±6.8	2.5±0.3	14.8	63.8	0.5	13.00	66.5	4H	3.5	1000	4
UT10806-7	Bluecreek	HRW	56.1	79.9±15.2	24.9±6.6	2.4±0.3	15.0	57.6	0.4	12.60	69.9	5H	4.6	895	5
UT10806-9	Bluecreek	HRW	57.4	81.6±17	26±7.4	2.5±0.3	14.5	57.6	0.4	12.30	63.0	5H	5.7	995	5

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				Hardness	Weight	Size		Flour Yield	Ash	Flour Protein	Absorption	Mix Type	Mix Time	Volume (cc's)	Crumb Quality
UT10814-3	Bluecreek	HRW	60.7	82.3±16.2	28.4±6.6	2.6±0.3	13.9	62.5	0.4	12.10	64.5	4H	3.6	1080	4
UT10814-6	Bluecreek	HRW	60.3	68.2±17.8	32±8	2.7±0.4	15.1	65.8	0.4	13.10	64.6	3H	3.1	1075	4
UT10817-2	Bluecreek	HRW	56.6	74.2±18	23.8±5.8	2.3±0.2	14.7	65.7	0.4	13.40	66.8	4H	4.4	1135	4
UT10817-3	Bluecreek	HRW	59.2	58.1±16.7	30.4±8.2	2.5±0.3	15.7	69.1	0.4	14.20	66.5	3H	3.1	1095	4
UT10817-6	Bluecreek	HRW	60.4	72.1±14.9	31.7±7.4	2.7±0.3	15.7	65.4	0.4	13.90	68.3	4H	3.9	1135	3
UT10818-1	Bluecreek	HRW	57.3	72.5±16.6	27±6.8	2.5±0.3	15.0	63.7	0.4	13.40	66.3	4H	4.4	1040	4
UT10818-3	Bluecreek	HRW	58.7	63.2±17.4	27.7±6.8	2.5±0.3	14.2	69.1	0.4	13.10	65.7	3H	3.5	1095	4
UT10818-5	Bluecreek	HRW	57.9	76.7±17.1	27.5±7.2	2.6±0.3	15.1	62.9	0.4	13.60	67.4	4H	4.4	1125	3
ID816	Bluecreek	HRW	57.6	74.9±18.5	26.7±7.2	2.5±0.3	14.2	63.7	0.4	12.90	65.5	5H	5.3	1015	3
ID1101	Bluecreek	HRW	61.9	72.1±16.4	31.7±6.8	2.7±0.3	13.8	64.1	0.4	11.70	64.9	4M	3.5	1020	4
ID1103	Bluecreek	HRW	60.5	72.1±16.9	28.6±6.4	2.5±0.3	12.2	65.5	0.4	11.00	61.8	6M	4.4	920	4