

Table 32. 2011 Preliminary A Winter Wheat Nursery Mill & Bake (Exp. 36)

Location: Means Across Locations

Sample No. x = lines in 2014 tests	Variety	Pedigree	Class	PPO	Single kernel hardness	Wheat Protein, % (12% <sub>m.b.</sub> )	Flour Yield, %	Flour Protein, % (14% <sub>m.b.</sub> )	L* Brightness	a* Green - Red	b* Blue - Yellow	Wheat Ash, %	Flour Ash, %	Mixing Tolerance	Mixo Mixing Time, min	Mixo Water Absorption, %	Bake Mixing Time, min	Bake Water Absorption, %	Loaf Volume
1	Yellowstone	check	HRW	0.199	87.7	13.1	64.6*	11.9	90.0	-1.28	10.9	1.49	0.41	5.0	8.8	62.0	12.6	72.3	1098*
2	Decade	check	HRW	0.294	82.8	13.3	64.0*	11.8	90.1	-1.13	9.6	1.51	0.41	4.7	8.4	64.4**	13.6	74.8**	1072*
3	Jagalene	check	HRW	0.326	88.2	12.8	65.4*	11.4	89.7	-1.31	10.6	1.39**	0.40*	4.0	5.5	60.1	6.6	70.0	1028
4	CDC Falcon	check	HRW	0.321	79.1	13.4	61.8	11.8	90.0	-1.16	9.8	1.48*	0.43	3.7	5.6	62.1	7.9	71.8	1043
5	MTF1229	Yellowstone*2/98X168E1	HRW	0.200	84.4	11.9	64.5*	10.6	89.9	-1.37	11.0	1.46*	0.42	5.0	6.9	59.8	12.2	70.0	1007
6	MTF1232	Yellowstone/MT0684	HRW	0.180	81.2	14.2**	64.8*	12.2*	89.6	-1.40	11.8	1.60	0.41	4.0	7.3	61.9	11.1	72.0	1060*
7	MT1233	Yellowstone/MT0375	HRW	0.109**	82.4	13.2	64.8*	12.0	90.0	-1.56	11.5	1.53	0.39*	4.7	10.1	62.1	15.2	73.0*	1070*
8	MT1241	PI572290/BigSky	HRW	0.437	79.0	12.9	63.6	11.2	89.8	-1.45	11.6	1.46*	0.40*	5.0	7.9	61.9	10.3	71.9	1037
9	MT1245	MTR00118/MT0241//CDC Falcon	HRW	0.302	84.8	12.4	65.3*	10.9	90.2	-1.44	11.0	1.47*	0.39**	3.7	5.6	59.6	8.2	69.8	1020
10	MT1246	MTR00118/MT0241//CDC Falcon	HRW	0.347	88.3	12.6	65.5*	11.1	90.0	-1.42	11.0	1.54	0.40*	3.7	5.0	60.1	7.8	70.0	1022
11	MT1247	Paul/McNeal	HRW	0.110*	85.8	13.3	64.2*	11.6	89.8	-1.43	11.6	1.48	0.41	4.7	6.8	61.1	10.0	70.8	1052
12	MTW1250	Yellowstone*2/MT0192	HWW	0.129*	87.3	12.2	65.6*	11.0	89.8	-1.79	12.9	1.42*	0.42	5.0	5.8	60.3	9.8	70.2	1012
13	MTW1251	Yellowstone*2/MT0192	HWW	0.127*	86.8	12.6	66.2**	11.0	89.8	-1.84	13.3	1.41*	0.42	4.7	6.8	60.9	11.1	71.1	1010
14	MT1257	Yellowstone/Krichauff	HRW	0.251	84.0	12.5	64.6*	11.0	89.9	-1.49	11.6	1.43*	0.41	5.0	7.9	61.5	12.2	71.7	1032
15	MTCL1261	Yellowstone*4/3/MTCL01158/CDC	HRW	0.313	83.4	13.2	63.3	11.4	89.8	-1.34	11.0	1.44*	0.41	4.0	7.6	61.0	10.1	71.0	1070*
16	MT1262	MT03177//MT0097/Curlew	HRW	0.387	83.1	13.8*	66.0	12.7**	89.7	-1.27	11.1	1.48*	0.41	3.3	4.9	63.2*	6.5	73.3*	1107**
17	MT1265	Yellowstone*4/KS96WGRC40 (Lr41	HRW	0.233	80.9	13.3	64.8*	11.9	89.8	-1.25	11.0	1.48*	0.41	4.7	7.7	63.4*	10.8	73.3*	1075*
18	MT1266	Yellowstone*4/KS96WGRC40 (Lr41	HRW	0.208	82.8	13.2	64.5*	11.6	89.7	-1.31	11.2	1.53	0.42	4.7	9.9	62.2	13.6	72.9*	1055*
19	MT1272	95X296E3/MT03107//MT03106(BC)	HRW	0.347	79.5	13.1	62.0	11.5	90.2	-1.24	10.2	1.48*	0.41	4.0	4.9	61.1	6.8	71.6	1038
20	MT1273	95X296E3/MT03107//MT03106(BC)	HRW	0.317	85.1	13.1	62.3	11.3	90.0	-1.20	10.3	1.48*	0.41	4.0	3.9	60.8	4.9	70.7	992
21	MT1275	MT0376/95X80E48//95X274E113-4	HRW	0.360	34.1	12.9	52.5	10.7	91.4	-1.38	8.8	1.55	0.39*	3.3	4.0	59.5	5.3	69.2	1022
22	MT1280	MT03160/MT9982//MT0177	HRW	0.135*	84.9	12.8	63.1	11.2	90.5	-1.45	10.5	1.50	0.41	4.3	6.2	61.1	9.4	71.0	1068*
23	MT1286	Yellowstone*2/NE99445	HRW	0.265	85.9	12.7	62.2	11.1	90.0	-1.17	10.1	1.43*	0.41	4.3	9.6	61.5	13.2	72.2	1060*
24	MT1287	Yellowstone*2/NE99445	HRW	0.286	85.7	12.7	62.8	10.9	90.0	-1.06	9.6	1.40*	0.40	5.0	10.9	61.5	14.0	72.2	1065*
Average				0.258	82.0	13.0	63.7	11.4	90.0	-1.36	10.9	1.48	0.41	4.4	7.0	61.4	10.1	71.5	1046
LSD (0.05)				0.063	5.4	0.8	2.4	0.6	0.3	0.13	0.6	0.11	0.02	0.9	2.6	1.9	2.5	2.0	53
C.V.				14.9	4.0	3.5	2.3	3.0	0.2	5.8	3.2	4.4	2.5	12.7	22.9	1.9	15.0	1.7	3.1
P-Value				<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	0.0016	0.0005	<.0001	0.0003	<.0001	<.0001	0.0045