

Table 15. 2012 Advanced Winter Wheat Nursery Mill & Bake (Exp. 14)
Location: Means Across Locations

Sample No.	i = lines in 2014 Intrastate			Class	PPO	Single kernel hardness	Wheat Protein, % (12% <i>m.b.</i>)	Flour Yield, %	Flour Protein, % (14% <i>m.b.</i>)	Color			Wheat Ash, %	Flour Ash, %	Mixing Tolerance	Mixo Mixing Time, min	Mixo Water Absorption, %	Bake Mixing Time, min	Bake Water Absorption, %	Loaf Volume	Crumb Grain Score
	Variety	Pedigree								L* Brightness	a* Green - Red	b* Blue - Yellow									
1	Genou	check		HRW	0.321	81.3	14.1**	64.6	12.6**	90.2	-1.58	11.1	1.57	0.41*	4.0	7.0	65.2*	12.5	75.0*	1130	7.8
2	Yellowstone	check		HRW	0.198	83.2	13.3	64.5	11.6	89.8	-1.30	11.1	1.48	0.43	5.0	10.4	63.7*	13.7	74.0*	1090	7.8
3	Jagalene	check		HRW	0.328	84.2	12.5	65.6*	11.1	89.9	-1.42	11.2	1.35**	0.41*	3.5	5.3	61.0	7.1	70.7	1016	7.5
4	Decade	check		HRW	0.310	83.7	13.6*	63.6	11.7	90.4	-1.12	9.2	1.50	0.41*	4.8	8.4	63.0	12.5	73.5	1069	8.0
5	MTS0826-63	MT9524/G15048//Rampart		HRW	0.279	83.2	14.0*	65.3*	12.4*	90.2	-1.89	12.3	1.56	0.41*	4.5	9.2	65.7**	21.9	76.1**	1175**	8.0
6	MT1102	MT9982*4/MTS0222		HRW	0.153*	82.9	13.2	65.4*	11.6	90.0	-1.64	11.8	1.49	0.43	4.5	14.1	65.3*	20.7	75.7*	1105	7.8
7	MT1108	Yellowstone*3//MT9982/MTS0222		HRW	0.118**	81.3	13.1	65.6*	11.4	90.0	-1.36	11.0	1.49	0.42	4.5	11.2	63.3	15.2	73.9	1095	7.8
8	MT1113	Yellowstone*4//KS96WGRC40 (Lr)		HRW	0.320	84.5	13.5*	63.9	11.5	90.1	-1.23	10.6	1.54	0.43	4.8	8.4	63.1	10.6	73.6	1071	8.3
9	MT1117	Yellowstone*3//KS96WGRC40		HRW	0.316	84.8	13.6*	63.1	11.6	90.0	-1.31	11.1	1.55	0.43	5.0	9.0	62.9	13.2	72.9	1065	8.0
10	MTCL1131	Yellowstone*4//3//MTCL01158/CDC		HRW	0.255	86.1	13.3	63.8	11.7	89.8	-1.22	10.8	1.59	0.43	4.3	9.0	62.5	11.9	72.6	1098	7.5
11	MT1137	Endurance/MT02136//Yellowstone		HRW	0.240	85.5	12.5	63.0	11.1	90.4	-1.57	11.1	1.48	0.40**	4.5	9.3	62.3	11.2	72.1	1020	7.5
12	MT1138	W99-194/2*Yellowstone		HRW	0.251	82.0	13.0	63.2	11.2	90.0	-1.50	11.5	1.47	0.43	4.8	11.6	62.8	15.4	73.5	1044	8.0
13	MT1143	MT9982/PI572290//MT0557		HRW	0.204	80.0	12.9	66.0**	11.2	90.3	-1.74	11.9	1.52	0.41*	3.8	5.8	63.1	8.7	73.1	1009	8.3
Average					0.253	83.3	13.3	64.4	11.6	90.1	-1.45	11.1	1.51	0.42	4.4	9.1	63.4	13.4	73.6	1076	7.8
LSD (0.05)					0.058	ns	0.7	1.0	0.5	0.3	0.10	0.40	0.09	0.01	0.9	2.7	2.2	4.1	2.1	42	ns
C.V.					16.1	5.2	3.7	1.0	3.3	0.3	4.9	2.8	4.1	1.9	14.2	20.7	2.5	21.3	2.0	2.7	7.7
P-Value					<.0001	0.765	0.001	<.0001	<.0001	0.008	<.0001	<.0001	0.001	<.0001	0.040	<.0001	0.007	<.0001	0.001	<.0001	0.693