

Sample No.	Identific.	Pedigree	Class	Wheat Protein, % (12%am.b.)	Single Kernel Hardness	Flour Yield, %	Flour Protein, % (14%am.b.)	L* Brightness	a* Green - Red	b* Blue - Yellow	Wheat Ash, %	Flour Ash, %	Type	Tolerance	Mixing Time, min	Water Absorption, %	Bake	Bake Water Absorption, %	Loaf Volume	Comments
1	MT 1201	CHOTEAU/MT0614	hrs	15.1	90	64.5	13.4	89.54	-0.98	10.60	0.39	1.45	MH	3	3.4	63.5	4.2	72.2	1175	ST
2	MT 1202	CHOTEAU/MT0744	hrs	14.7	75	60.2	12.7	90.36	-0.92	9.49	0.38	1.32	M	4	4.1	61.4	5.4	71.1	1160	SISTHasStrength
3	MT 1203	CHOTEAU/MT0744	hrs	15.9	71	62.0	13.7	90.44	-1.20	9.93	0.37	1.34	MH	3	2.7	64.5	3.8	74.2	1175	ST
4	MT 1204	CHOTEAU/MTHW0771	hrs	14.2	74	66.0	12.6	90.60	-1.05	8.92	0.35	1.32	M	3	3.2	61.5	4.6	71.7	1080	ST
5	MT 1205	CHOTEAU/MTHW0771	hrs	15.2	65	66.3	13.2	90.61	-0.80	7.97	0.36	1.31	M	4	2.7	63.0	3.5	72.7	1120	ST
6	MT 1206	CHOTEAU/MTHW0771	hrs	15.2	73	66.3	13.4	90.22	-0.73	8.27	0.38	1.31	MH	3	3.2	63.7	3.6	73.4	1175	ST
7	MT 1207	CHOTEAU//MTHW9420/GLUPRO	hrs	14.5	77	63.7	12.3	90.13	-1.09	9.62	0.39	1.29	M	1	2.2	59.3	2.0	67.5	965	SISTDead
8	MT 1208	CHOTEAU//CHOTEAU/GLUPRO (061FAFS48)	hrs	15.4	74	64.4	13.4	90.19	-0.91	8.56	0.39	1.42	MH	4	3.2	63.9	3.9	73.6	1155	ST
9	MT 1209	CHOTEAU//CHOTEAU/GLUPRO (061FAFS48)	hrs	15.7	75	62.6	13.7	90.37	-0.90	8.49	0.38	1.35	MH	3	2.9	64.3	2.8	72.5	1135	ST
10	MT 1210	CHOTEAU//CHOTEAU/GLUPRO (061FAFS48)	hrs	15.8	71	62.9	13.8	90.09	-0.85	8.76	0.38	1.27	MH	4	2.0	62.8	2.3	71.5	1105	-
11	MT 1211	MT0614/MT0735	hrs	14.5	85	67.2	13.0	89.21	-0.73	9.31	0.41	1.29	M	4	2.5	62.0	2.3	70.2	1010	BrkHeadPlug2x
12	MT 1212	MT0614//CHOTEAU/REEDER(07SR241)	hrs	13.9	71	69.7	12.3	90.37	-1.39	10.56	0.35	1.23	M	2	2.9	61.2	3.5	70.4	1045	ST
13	MT 1213	MT0614//CHOTEAU/REEDER(07SR241)	hrs	14.9	69	68.7	13.2	90.16	-1.21	10.42	0.33	1.28	M	3	3.3	63.2	5.2	73.4	1155	-
14	MT 1214	MT0614//CHOTEAU/GLUPRO(061FAFS48)	hrs	16.0	82	65.1	13.8	89.68	-1.02	10.41	0.38	1.35	M	2	2.3	63.8	2.7	71.5	1100	ST
15	MT 1215	MT0643/MT0614	hrs	15.5	84	66.2	13.8	89.81	-1.31	11.33	0.38	1.40	MH	4	3.2	64.9	4.3	74.6	1235	SeePaper
16	MT 1216	MT0643//CHOTEAU/REEDER(07SR241)	hrs	15.1	69	64.3	13.4	90.52	-1.14	9.63	0.36	1.32	MH	4	3.5	63.5	4.8	73.2	1280	STHasStrength
17	MT 1217	MT0643//CHOTEAU/REEDER(07SR241)	hrs	15.7	69	65.4	14.0	90.53	-0.95	8.83	0.35	1.32	MH	4	3.0	63.7	4.1	73.4	1290	ST
18	MT 1218	MT0643//CHOTEAU/REEDER(07SR241)	hrs	14.6	63	65.4	13.0	92.46	-1.39	9.38	0.37	1.39	MH	4	2.9	64.3	3.5	74.5	1220	ST
19	MT 1219	MT0643/MTHW0771	hrs	14.4	78	65.9	12.8	90.39	-1.02	9.07	0.38	1.27	MH	4	3.3	62.1	4.0	71.8	1225	ST
20	MT 1220	MT0643/UC1551(07WREG11)	hrs	15.4	61	68.3	13.9	90.42	-1.56	11.01	0.35	1.44	MH	2	3.6	65.3	6.9	75.5	1250	ST
21	MT 1221	MT0643/UC1551(07WREG11)	hrs	14.6	76	66.3	12.9	90.57	-1.81	11.86	0.36	1.35	M	3	2.9	61.9	4.1	71.6	1185	-
22	MT 1222	MT0744//CHOTEAU/GLUPRO(061FAFS48)	hrs	15.1	81	62.2	13.1	90.01	-1.18	10.32	0.41	1.37	MH	4	4.3	64.8	5.5	74.5	1200	SlBucky
23	MT 1223	MT0744//CHOTEAU/GLUPRO(061FAFS48)	hrs	16.2	68	64.3	14.6	90.53	-0.78	8.59	0.38	1.36	MH	4	2.0	64.9	2.2	70.6	1130	-
24	MT 1224	MCNEAL/MT0245(07SR2)//CHOTEAU/GLUPRO (061FAFS48)	hrs	14.3	72	66.0	12.9	90.32	-0.72	8.35	0.37	1.29	M	3	4.2	62.9	5.9	72.6	1075	ST
25	MT 1225	MCNEAL/MT0245(07SR2)//CHOTEAU/GLUPRO (061FAFS48)	hrs	14.9	89	64.5	13.0	90.16	-0.98	9.42	0.37	1.38	MH	3	3.8	62.1	3.5	70.8	1050	ST
26	MT 1226	MCNEAL/MT0245(07SR2)//CHOTEAU/GLUPRO (061FAFS48)	hrs	14.7	75	68.0	13.3	90.13	-0.89	9.30	0.37	1.27	M	2	3.9	63.8	2.7	71.5	1030	ST
27	MT 1227	MCNEAL/MT0245(07SR2)//CHOTEAU/GLUPRO (061FAFS48)	hrs	14.7	65	66.5	13.1	90.71	-0.81	8.40	0.36	1.30	MH	4	4.8	64.0	7.9	72.7	1095	ST
28	MT 1228	MCNEAL/MT0245(07SR2)//CHOTEAU/GLUPRO (061FAFS48)	hrs	14.6	78	65.9	12.9	90.66	-0.81	8.16	0.34	1.24	M	4	4.6	64.0	6.1	71.7	1165	-
29	MT 1229	CHOTEAU/REEDER(07SR241)//CHOTEAU	hrs	14.7	70	67.0	12.7	90.51	-0.98	8.69	0.37	1.44	M	3	3.2	61.7	3.2	71.4	1060	ST
30	MT 1230	CHOTEAU/REEDER(07SR241)//CHOTEAU	hrs	15.4	71	67.1	13.5	90.58	-0.99	8.88	0.35	1.37	M	3	2.8	62.9	2.7	70.6	1095	ST
31	MT 1231	CHOTEAU/REEDER(07SR241)//MT0643	hrs	14.8	61	66.6	12.9	90.70	-1.15	9.23	0.36	1.21	MH	4	2.9	63.1	3.0	71.8	1165	ST
32	MT 1232	CHOTEAU/REEDER(07SR241)//MT0643	hrs	15.5	64	66.8	13.6	90.52	-1.10	9.57	0.36	1.46	M	4	2.1	63.0	2.1	70.7	1060	ST
33	MT 1233	CHOTEAU/REEDER(07SR241)//MT0643	hrs	14.6	68	65.7	12.9	90.69	-1.31	9.68	0.38	1.32	M	3	2.4	63.0	2.2	71.7	1130	PoorElasticity
34	MT 1234	CHOTEAU/REEDER(07SR241)//MT0643	hrs	15.4	69	67.5	13.8	90.69	-1.34	10.09	0.36	1.43	MH	4	3.3	65.2	4.8	74.9	1210	-
35	MT 1235	CHOTEAU/REEDER(07SR241)//MT0643	hrs	15.4	67	65.9	13.8	90.61	-1.39	10.41	0.36	1.39	MH	4	3.0	64.8	4.1	74.5	1315	-
36	MT 1236	CHOTEAU/REEDER(07SR241)//CHOTEAU/GLUPRO(061FAFS48)	hrs	14.7	66	66.6	13.2	90.17	-0.85	8.49	0.36	1.36	M	4	3.3	63.4	3.3	70.6	1200	PoorElasticity
37	MT 1237	CHOTEAU/REEDER(07SR241)//CHOTEAU/GLUPRO(061FAFS48)	hrs	14.6	70	65.2	13.0	90.50	-0.89	8.69	0.36	1.28	MH	4	2.3	63.3	2.2	69.5	1095	ST
38	MT 1238	CHOTEAU/REEDER(07SR241)//CHOTEAU/GLUPRO(061FAFS48)	hrs	15.2	57	68.3	13.9	90.35	-0.89	8.83	0.33	1.37	M	2	2.3	64.5	2.8	72.7	1070	ST
39	MT 1239	CHOTEAU/REEDER(07SR241)//CHOTEAU/GLUPRO(061FAFS48)	hrs	15.4	64	62.7	13.7	90.73	-0.96	8.33	0.35	1.30	MH	2	2.4	64.5	1.8	71.2	1065	PoorElasticity
40	MT 1240	CHOTEAU/REEDER(07SR241)//CHOTEAU/GLUPRO(061FAFS48)	hrs	15.0	72	64.9	13.2	90.63	-1.05	8.78	0.38	1.35	MH	3	2.2	64.3	1.8	70.5	1070	SeePaper
41	MT 1241	CLEARWHITE/MT0735	hrs	15.4	66	65.6	11.4	90.60	-0.93	8.29	0.37	1.20	M	3	2.0	59.6	1.8	66.8	1015	SISTPoorGluten
42	MT 1242	HANK*6/CHOTEAU(HC9)//MT0643	hrs	13.7	61	64.5	13.1	90.76	-0.91	8.02	0.37	1.44	MH	4	3.9	63.1	4.6	72.8	1200	STHasStrength
43	MT 1243	IMICHT79/MT0643	hrs	15.0	78	65.1	13.2	90.17	-1.10	9.28	0.38	1.39	MH	3	2.7	64.6	2.3	72.8	1090	SIST
44	MT 1244	CHOTEAU/CATALDO	hrs	12.7	57	62.2	10.9	91.39	-1.09	7.82	0.36	1.26	M	4	3.7	60.9	4.3	69.6	1100	ST
45	MT 1245	CHOTEAU/CATALDO	hrs	13.6	62	67.2	11.6	90.53	-1.09	8.73	0.37	1.34	M	3	3.1	61.7	5.2	71.9	1120	ST
46	MT 1246	CHOTEAU/DO668	hrs	14.3	43	63.7	11.9	91.58	-0.98	7.20	0.34	1.36	M	1	2.8	60.9	3.4	67.6	1130	STPoorGluten
47	MT 1247	CHOTEAU/DO669	hrs	14.0	24	58.1	11.2	91.97	-0.98	6.62	0.34	1.34	LM	2	2.5	59.6	3.5	67.8	1050	-
48	MT 1248	CHOTEAU/NICK	hrs	13.7	37	59.6	11.0	91.62	-0.88	6.65	0.34	1.29	L	0	1.4	58.1	1.6	62.8	875	Dead
49	MT 1249	CHOTEAU/NICK	hrs	12.6	82	68.2	11.1	90.24	-1.07	9.05	0.35	1.26	M	2	2.1	58.5	2.4	59.7	950	PoorElasticity
50	MT 1250	CHOTEAU/WA8008	hrs	13.2	52	60.8	10.9	91.24	-1.03	7.89	0.33	1.30	M	1	1.9	59.0	2.2	65.7	1030	SISTPoorGluten
51	MT 1251	CHOTEAU/WxS481-8-1(CHOTEAU/6*MT00159) (BC5F3)	hrs	15.0	71	61.9	12.7	90.68	-1.06	8.91	0.36	1.39	MH	3	2.5	61.9	2.2	69.6	1025	SIST
52	MT 1252	CHOTEAU/WxS481-8-1(CHOTEAU/6*MT00159) (BC5F3)	hrs	13.4	80	61.4	11.3	90.36	-1.12	9.15	0.37	1.26	M	3	3.1	61.1	3.0	69.8	1020	ST
53	MT 1253	CHOTEAU/WxS481-8-2(CHOTEAU/6*MT00159) (BC5F3)	hrs	14.0	62	67.7	12.2	90.23	-1.01	9.12	0.38	1.24	MH	3	2.7	61.9	3.3	70.6	1080	ST
54	MT 1254	HANK/CLEARWHITE	hws	14.5	64	66.9	12.7	90.58	-0.75	8.10	0.37	1.35	M	4	4.4	64.0	6.7	73.7	1190	HasStrength
55	MT 1255	HANK/CLEARWHITE	hws	14.9	70	64.9	13.2	90.50	-0.72	8.08	0.39	1.54	M	4	5.2	65.7	10.3	75.4	1200	SISTHasStrength
56	MT 1256	HANK/CLEARWHITE	hws	14.2	68	66.6	12.8	90.60	-0.69	7.93	0.38	1.41	M	3	5.2	64.9	8.1	74.6	1155	ST
57	MT 1257	HANK/CLEARWHITE	hws	13.2	66	67.7	11.6	90.63	-0.59	7.58	0.38	1.30	M	4	5.8	62.6	10.6	72.8	1110	-

58	MT 1258	HANK/CLEARWHITE	hws	13.8	68	66.7	12.2	90.61	-0.68	7.86	0.38	1.34	M	3	5.3	62.8	7.3	72.5	1150	SIST
59	MT 1259	HANK/CLEARWHITE	hws	13.8	70	66.2	12.2	90.59	-0.69	8.14	0.39	1.44	M	4	6.7	62.5	9.4	72.7	1085	ST
60	MT 1260	HANK/CLEARWHITE	hws	13.6	65	67.0	11.8	90.53	-0.67	7.77	0.38	1.31	M	3	4.9	63.0	7.1	72.7	1070	-
61	MT 1261	VIDA/CLEARWHITE	hws	13.5	78	69.1	11.7	90.06	-0.99	9.98	0.34	1.22	MH	2	4.0	63.1	5.8	71.8	1100	ST
62	MT 1262	CHOTEAU/CLEARWHITE	hws	14.5	78	63.8	12.5	90.26	-0.91	9.10	0.38	1.25	MH	3	3.2	62.0	4.1	71.7	1095	ST
63	MT 1263	CHOTEAU/CLEARWHITE	hws	14.5	70	64.3	12.3	90.47	-0.95	8.75	0.38	1.38	M	1	2.7	61.0	2.3	68.7	1060	ST
64	MT 1264	CHOTEAU/CLEARWHITE	hws	14.2	70	65.4	12.4	90.51	-0.96	8.69	0.37	1.27	M	4	3.6	62.3	4.9	72.0	1080	ST
65	MT 1265	CHOTEAU/CLEARWHITE	hws	13.8	70	65.7	12.2	90.58	-0.99	8.61	0.37	1.27	MH	3	3.3	62.2	5.2	71.9	1105	SIST
66	MT 1266	CHOTEAU/CLEARWHITE	hws	14.2	73	65.9	12.3	90.15	-1.09	8.97	0.38	1.26	M	3	3.0	62.3	4.1	72.0	1085	ST
67	MT 1267	CHOTEAU/CLEARWHITE	hws	14.1	77	65.0	12.3	90.33	-0.98	8.56	0.38	1.36	M	1	3.1	62.7	3.4	72.9	1025	ST
68	MT 1268	CHOTEAU/CLEARWHITE	hws	14.6	77	63.9	12.5	90.23	-0.91	8.59	0.39	1.31	M	2	2.7	62.3	3.4	72.0	1065	ST
69	MT 1269	CHOTEAU/CLEARWHITE	hws	15.1	68	63.6	13.0	90.38	-1.01	8.74	0.38	1.38	MH	2	2.9	65.3	4.2	75.0	1115	ST
70	MT 1270	CHOTEAU/CLEARWHITE	hws	15.7	68	62.6	13.4	90.18	-1.00	8.87	0.40	1.42	M	1	2.3	64.1	2.0	71.8	1050	SIST
71	MT 1271	CHOTEAU/CLEARWHITE	hws	14.9	75	64.5	13.0	90.16	-0.94	9.04	0.39	1.29	M	2	3.3	64.2	4.6	73.9	1175	-
72	MT 1272	CHOTEAU/CLEARWHITE	hws	15.2	68	63.7	13.4	90.58	-0.90	8.50	0.37	1.31	M	3	3.4	65.1	4.3	73.8	1160	ST
73	MT 1273	VIDA/CLEARWHITE	hws	13.5	80	70.2	12.1	89.76	-0.97	10.16	0.35	1.24	MH	3	4.0	62.2	5.8	71.9	1200	-
74	MT 1274	VIDA/CLEARWHITE	hws	13.9	82	67.6	11.9	89.78	-1.03	10.38	0.35	1.21	M	2	4.4	63.3	6.3	73.0	1110	LgST
75	MT 1275	VIDA/CLEARWHITE	hws	13.6	77	68.8	12.1	89.87	-0.99	10.29	0.36	1.29	M	3	3.7	62.9	4.2	71.6	1125	-
76	MT 1276	VIDA/CLEARWHITE	hws	14.2	75	68.5	12.3	89.79	-1.00	10.22	0.36	1.23	M	2	4.1	63.4	3.5	72.6	1050	ST
77	CI 13596	FORTUNA	hrs	15.3	72	68.7	13.1	89.90	-1.04	10.00	0.39	1.41	M	2	2.8	61.8	3.1	71.5	1110	-
78	PI574642	MCNEAL	hrs	15.0	94	65.0	12.9	89.89	-1.00	10.04	0.40	1.39	MH	4	5.6	64.5	6.9	74.2	1190	-
79	ND 695	REEDER	hrs	15.3	76	65.2	13.4	90.27	-1.11	10.01	0.37	1.39	MH	3	3.2	64.4	4.2	74.1	1165	-
80	PI633974	CHOTEAU	hrs	14.7	70	63.9	12.8	90.26	-0.97	8.83	0.37	1.31	M	3	2.6	64.9	3.3	74.6	1130	SIST
81	PI642366	VIDA	hrs	14.3	81	69.1	12.6	89.64	-0.84	10.07	0.37	1.21	M	1	3.8	66.0	5.2	74.7	1150	LgST