Barley Project
Malting Quality Data
2013

2013 Full Pint Crop - Sayer & Son Farm

Dr. Patrick Hayes; Dr. Alfonso Cuesta-Marcos; Tanya Filichkin, Scott Fisk,
Laura Helgerson; Araby Belcher, Ryan Graebner, Brigid Meints;
Pierrette Castro, Robyn Shepherd

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2013 Malting Quality Data for Oregon State University Barley Trials

Table 1. OBWFSW Entry List and Pedigrees (Selections)

(2012-13 Oregon Barley Winter/Facultative Statewide Trial)

Entry	Name	Type	Use	Parentage
6	Wintmalt	2	Malting	
7	Violetta	2	Malting	
11	05-5401/01	2	Malting	
12	Malwinta	2	Malting	
13	07/041/8	2	Malting	
17	04/028/36	2	Malting	
20	Maltesse	2	Malting	
21	Nectaria	2	Malting	
27	Liga	2	Malting	
28	Ariane	2	Malting	

Table 2. OBWFSW MQ for Corvallis, OR 2012-13 (Selections)

(2012-13 Oregon Barley Winter/Facultative Statewide Trial)

Entry	Name	Rowed	Plump (on 6/64") (%)	Malt Extract (%)	Wort Clarity	Barley Protein (%)	Wort Protein	S/T (%)	DP (°ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)
6	Wintmalt	2	91.6	81.4	1	10.9	4.28	40.6	139	65.0	79	189
7	Violetta	2	99.1	82.0	1	12.3	5.57	46.3	193	70.5	88	241
11	05-5401/01	2	99.3	84.3	1	9.3	4.43	48.7	134	72.4	64	203
12	Malwinta	2	99.3	83.0	1	9.9	4.42	44.8	147	66.0	60	198
13	07/041/8	2	99.2	83.0	1	9.9	3.98	44.3	127	54.7	52	174
17	04/028/36	2	99.4	84.0	1	11.2	5.16	47.5	158	70.9	45	242
20	Maltesse	2	97.9	82.8	1	9.5	4.27	47.0	137	68.8	246	188
21	Nectaria	2	97.4	84.0	1	10.0	4.73	48.3	145	76.6	152	224
27	Liga	2	96.9	82.0	1	10.4	4.20	41.2	124	60.8	25	183
28	Ariane	2	94.3	81.5	1	10.0	4.32	44.4	133	72.3	25	193

Table 3. O2Malt Entry List and Pedigrees

(2012-13 Oregon 2-Row Malting Barley Yield Trial)

Entry	Name	Type	Use	Parentage
1	10.0626	2	Malting	Wintmalt/Bari 2B08-3145
2	10.0627	2	Malting	Wintmalt/Bari 2B08-3145
3	10.0834	2	Malting	Wintmalt/Bari 2B08-3145
4	10.0736	2	Malting	Wintmalt/Bari 2B08-3149
5	10.0739	2	Malting	Wintmalt/Bari 2B08-3149
6	10.0740	2	Malting	Wintmalt/Bari 2B08-3149
7	10.0761	2	Malting	Wintmalt/Bari 2B08-3149
8	10.0764	2	Malting	Wintmalt/Bari 2B08-3149
9	10.0835	2	Malting	Wintmalt/Bari 2B08-3149
10	10.0844	2	Malting	Wintmalt/Bari 2B08-3149
11	10.0777	2	Malting	Wintmalt/Charles
12	10.0782	2	Malting	Wintmalt/Charles
13	10.0787	2	Malting	Wintmalt/Charles
14	10.0791	2	Malting	Wintmalt/Charles
15	10.0849	2	Malting	Wintmalt/Charles
16	10.0852	2	Malting	Wintmalt/Charles
17	10.0856	2	Malting	Wintmalt/Charles
18	10.0860	2	Malting	Wintmalt/Charles
19	Charles	2	Malting	Bearpaw/81Ab1702
20	Endeavor	2	Malting	ORWM8406/Harrington
21	Violetta	2	Malting	
22	Wintmalt	2	Malting	

Table 4. O2Malt MQ for Corvallis, OR 2012-13 (Selections)

(2012-13 Oregon 2-Row Malting Barley Yield Trial)

Entry	Name	Rowed	Plump (on 6/64") (%)	Malt Extract (%)	Wort Clarity	Barley Protein (%)	Wort Protein	S/T (%)	DP (°ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)
5	10.0739	2	97.9	83.8	1	11.1	5.56	53.5	127	92.5	56	270
6	10.0740	2	96.8	83.1	1	10.7	5.52	52.6	118	102.9	89	268
11	10.0777	2	98.5	84.7	1	10.2	5.69	56.1	131	126.1	24	288
18	10.0860	2	97.5	83.8	1	11.1	5.47	51.0	132	105.4	43	280
19	Charles	2	89.5	82.4	1	11.6	5.83	52.2	126	111.3	194	285
20	Endeavour	2	90.9	82.3	1	11.2	5.79	52.8	154	112.1	94	269

Table 5. O2Malt MQ for Rupert, ID 2012-13

(2012-13 Oregon 2-Row Malting Barley Yield Trial)

Entry	Name	Rowed	Plump (on 6/64") (%)	Malt Extract (%)	Wort Clarity	Barley Protein (%)	Wort Protein	S/T (%)	DP (°ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)
1	10.0626	2	97.7	81.7	20.4	10.9	3.8	35.3	110.9	48.6	483.2	118.6
2	10.0627	2	97.1	83.5	3.6	11.0	5.3	49.4	162.2	78.7	92.2	216.5
3	10.0834	2	89.5	80.6	4.2	12.1	4.7	42.7	168.9	68.7	36.4	185.0
4	10.0736	2	98.7	81.1	5.1	11.9	5.0	44.4	169.6	58.8	106.6	196.9
5	10.0739	2	95.6	81.3	3.7	12.1	5.2	53.2	130.0	61.8	215.1	230.1
6	10.0740	2	98.7	83.1	2.3	10.6	5.2	53.4	120.5	68.0	189.4	228.8
7	10.0761	2	98.3	83.0	3.8	10.6	5.6	62.3	124.3	74.0	148.1	264.0
8	10.0764	2	87.7	76.9	3.8	15.0	6.2	43.9	231.6	86.7	36.3	272.7
9	10.0835	2	97.8	84.1	4.7	10.6	4.9	56.2	152.1	54.3	66.0	195.6
10	10.0844	2	95.9	82.7	3.6	12.2	5.5	50.1	194.6	73.9	87.0	247.3
11	10.0777	2	98.0	83.9	2.6	11.9	5.9	50.4	183.2	94.8	58.9	273.4
12	10.0782	2	97.2	82.5	2.9	12.0	5.3	46.9	159.4	90.5	90.7	230.1
13	10.0787	2	74.6	77.8	3.0	12.7	4.1	38.4	172.8	67.8	38.1	145.3
14	10.0791	2	93.1	76.4	3.5	14.4	4.4	36.2	171.6	68.1	124.8	165.9
15	10.0849	2	95.4	81.0	2.6	10.7	4.4	43.4	155.1	66.1	89.8	151.8
16	10.0852	2	96.0	83.5	2.1	9.8	4.8	53.1	130.2	85.7	63.6	212.1
17	10.0856	2	89.5	81.6	5.4	12.5	5.3	49.0	202.2	84.6	22.9	249.7
18	10.0860	2	97.2	82.3	2.4	10.4	4.9	51.6	133.3	70.5	56.1	234.0
19	Charles	2	94.0	82.0	3.0	11.7	5.3	50.2	155.3	87.4	58.7	234.3
20	Endeavour	2	95.6	83.0	1.9	11.7	5.4	49.7	153.2	83.6	103.3	242.9
21	Violetta	2	98.2	81.8	3.5	11.8	4.7	43.0	179.6	50.2	263.6	168.1
22	Wintmalt	2	96.6	80.1	9.4	12.2	4.3	34.6	160.3	54.3	117.5	153.3

Table 6. O2Malt MQ for Hazelton, ID 2012-13

(2012-13 Oregon 2-Row Malting Barley Yield Trial)

Entry	Name	Rowed	Plump (on 6/64") (%)	Malt Extract (%)	Wort Clarity	Barley Protein (%)	Wort Protein	S/T (%)	DP (°ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)
1	10.0626	2	91.4	78.7	3.6	14.5	4.3	33.6	143.7	59.4	324.4	146.1
2	10.0627	2	84.7	80.4	3.5	14.6	6.0	46.9	196.8	91.0	82.0	265.2
3	10.0834	2	85.2	78.9	3.3	14.7	5.2	40.8	150.9	63.2	73.8	203.5
4	10.0736	2	89.9	77.1	4.0	15.9	5.7	40.8	230.8	71.6	60.1	228.2
5	10.0739	2	79.4	79.5	3.3	13.7	6.0	49.2	165.4	75.6	137.3	269.1
6	10.0740	2	93.8	80.1	2.9	14.2	6.2	51.0	159.9	76.6	99.4	282.0
7	10.0761	2	93.4	80.2	3.2	14.0	6.2	49.4	166.7	76.7	151.7	280.4
8	10.0764	2	80.4	78.4	2.6	14.8	6.7	52.6	204.3	77.9	44.4	300.8
9	10.0835	2	85.0	79.3	3.4	13.6	5.2	42.6	154.8	60.4	84.7	201.4
10	10.0844	2	95.1	81.2	2.4	14.6	5.9	41.1	220.3	69.7	193.8	251.9
11	10.0777	2	91.4	81.2	2.7	14.1	6.9	58.0	216.1	106.2	52.4	338.4
12	10.0782	2	90.1	80.3	2.2	13.5	5.9	52.2	172.1	94.9	127.4	254.4
13	10.0787	2	86.9	78.3	3.1	13.5	4.6	38.3	180.4	62.1	92.9	163.9
14	10.0791	2	92.8	77.7	3.6	15.9	5.2	36.9	181.2	70.0	257.0	210.9
15	10.0849	2	85.8	79.6	2.4	13.3	5.0	41.9	177.1	73.1	113.1	186.1
16	10.0852	2	87.7	78.8	2.0	14.9	5.9	46.0	183.0	102.7	41.3	276.8
17	10.0856	2	90.2	80.2	3.6	14.6	5.2	41.7	198.7	71.0	111.2	211.3
18	10.0860	2	92.5	80.9	2.9	13.8	5.3	44.5	169.9	73.5	111.4	234.4
19	Charles	2	84.7	80.1	2.3	14.9	6.4	49.8	198.0	92.3	94.0	296.7
20	Endeavour	2	86.6	81.2	2.4	13.5	6.3	58.1	165.7	92.6	79.5	291.5
21	Violetta	2	92.8	79.6	3.6	13.4	5.3	46.2	197.8	61.1	196.5	206.0
22	Wintmalt	2	88.8	78.5	3.9	14.6	5.2	41.9	182.6	63.8	134.1	203.4

Table 7. O2MPYT Entry List and Pedigrees (Selections)

(2012-13 Oregon 2-Row Malting Barley Preliminary Yield Trial)

Entry	Name	Type	Use	Parentage
12	10.0901	2	Malting	KW2-849 x (Luca/Waxbar/Luca8)
13	10.0904	2	Malting	KW2-849 x (Luca/Waxbar/Luca8)
15	10.0923	2	Malting	KW2-849 x (Luca/Waxbar/Luca8)
16	10.0925	2	Malting	KW2-849 x (Luca/Waxbar/Luca8)
19	10.0945	2	Malting	KW2-849 x (Luca/Waxbar/Luca8)
21	10.0988	2	Malting	KW2-849 x (Luca/Waxbar/Luca8)

Table 8. O2MPYT MQ for Corvallis, OR 2012-13 (Selections)

(2012-13 Oregon 2-Row Malting Barley Preliminary Yield Trial)

Entry	Name	Rowed	Plump (on 6/64") (%)	Malt Extract (%)	Wort Clarity	Barley Protein (%)	Wort Protein	S/T (%)	DP (°ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)
12	10.0901	2	98.6	78.9	1	12.8	4.43	35.2	121	63.7	338	173
13	10.0904	2	98.1	77.7	1	14.3	4.65	34.0	85	64.0	489	176
15	10.0923	2	98.9	*69.6	1	14.7	4.58	33.2	162	64.7	396	178
16	10.0925	2	98.7	80.1	1	13.2	4.38	35.7	88	61.0	388	178
19	10.0945	2	97.8	81.7	1	11.4	3.88	34.8	124	63.0	400	151
21	10.0988	2	99.0	80.8	1	12.5	4.36	35.4	164	65.6	398	171

Table 9. Malt DH Mini-Plots Entry List and Pedigrees

(2012-13 Malt Doubled Haploid Mini-Plots)

Entry	Name	Type	Use	Parentage
3	10.0630	2	Malting	Wintmalt/Bari 2B08-3145
4	10.0634	2	Malting	Wintmalt/Bari 2B08-3145
5	10.0637	2	Malting	Wintmalt/Bari 2B08-3145
6	10.0638	2	Malting	Wintmalt/Bari 2B08-3145
7	10.0639	2	Malting	Wintmalt/Bari 2B08-3145
8	10.0640	2	Malting	Wintmalt/Bari 2B08-3145
9	10.0641	2	Malting	Wintmalt/Bari 2B08-3145
10	10.0643	2	Malting	Wintmalt/Bari 3140
11	10.0644	2	Malting	Wintmalt/Bari 3140
12	10.0645	2	Malting	Wintmalt/Bari 3140
13	10.0647	2	Malting	Wintmalt/Bari 3140
14	10.0649	2	Malting	Wintmalt/Bari 3140
15	10.0716	2	Malting	Wintmalt/Bari 2B08-3145
17	10.0720	2	Malting	Wintmalt/Bari 2B08-3145
18	10.0721	2	Malting	Wintmalt/Bari 2B08-3145
19	10.0724	2	Malting	Wintmalt/Bari 2B08-3145
20	10.0726	2	Malting	Wintmalt/Bari 2B08-3145
21	10.0731	2	Malting	Wintmalt/Bari 2B08-3145
22	10.0733	2	Malting	Wintmalt/Bari 2B08-3145
23	10.0741	2	Malting	Wintmalt/Bari 2B08-3149
24	10.0742	2	Malting	Wintmalt/Bari 2B08-3149
25	10.0743	2	Malting	Wintmalt/Bari 2B08-3149
26	10.0744	2	Malting	Wintmalt/Bari 2B08-3149
27	10.0753	2	Malting	Wintmalt/Bari 2B08-3149
28	10.0762	2	Malting	Wintmalt/Bari 2B08-3149
29	10.0763	2	Malting	Wintmalt/Bari 2B08-3149
30	10.0767	2	Malting	Wintmalt/Charles
31	10.0768	2	Malting	Wintmalt/Charles
32	10.0769	2	Malting	Wintmalt/Charles
33	10.0770	2	Malting	Wintmalt/Charles
34	10.0771	2	Malting	Wintmalt/Charles
35	10.0772	2	Malting	Wintmalt/Charles
36	10.0773	2	Malting	Wintmalt/Charles
38	10.0779	2	Malting	Wintmalt/Charles
39	10.0780	2	Malting	Wintmalt/Charles
40	10.0781	2	Malting	Wintmalt/Charles
41	10.0785	2	Malting	Wintmalt/Charles
42	10.0789	2	Malting	Wintmalt/Charles
43	10.0794	2	Malting	Wintmalt/Charles
44	10.0797	2	Malting	Wintmalt/Bari 3140
45	10.0802	2	Malting	Wintmalt/Bari 3140

Table 9. Malt DH Mini-Plots Entry List and Pedigrees

(2012-13 Malt Doubled Haploid Mini-Plots)

Entry	Name	Type	Use	Parentage
46	10.0803	2	Malting	Wintmalt/Bari 3140
47	10.0806	2	Malting	Wintmalt/Bari 3140
48	10.0807	2	Malting	Wintmalt/Bari 3140
49	10.0808	2	Malting	Wintmalt/Bari 3140
50	10.0809	2	Malting	Wintmalt/Bari 3140
51	10.0812	2	Malting	Wintmalt/Bari 3140
52	10.0814	2	Malting	Wintmalt/Bari 2B08-3145
53	10.0815	2	Malting	Wintmalt/Bari 2B08-3145
54	10.0817	2	Malting	Wintmalt/Bari 2B08-3145
55	10.0818	2	Malting	Wintmalt/Bari 2B08-3145
56	10.0819	2	Malting	Wintmalt/Bari 2B08-3145
57	10.0820	2	Malting	Wintmalt/Bari 2B08-3145
58	10.0821	2	Malting	Wintmalt/Bari 2B08-3145
59	10.0824	2	Malting	Wintmalt/Bari 2B08-3145
60	10.0825	2	Malting	Wintmalt/Bari 2B08-3145
61	10.0826	2	Malting	Wintmalt/Bari 2B08-3145
62	10.0828	2	Malting	Wintmalt/Bari 2B08-3145
63	10.0830	2	Malting	Wintmalt/Bari 2B08-3145
64	10.0831	2	Malting	Wintmalt/Bari 2B08-3145
65	10.0832	2	Malting	Wintmalt/Bari 2B08-3145
66	10.0833	2	Malting	Wintmalt/Bari 2B08-3145
67	10.0837	2	Malting	Wintmalt/Bari 2B08-3149
68	10.0839	2	Malting	Wintmalt/Bari 2B08-3149
69	10.0843	2	Malting	Wintmalt/Bari 2B08-3149
70	10.0848	2	Malting	Wintmalt/Bari 2B08-3149
71	10.0851	2	Malting	Wintmalt/Charles
72	10.0854	2	Malting	Wintmalt/Charles
73	10.0859	2	Malting	Wintmalt/Charles
74	10.0861	2	Malting	Wintmalt/Charles
75	10.0865	2	Malting	Wintmalt/Bari 3140
76	10.0867	2	Malting	Wintmalt/Bari 3140
77	10.0870	2	Malting	Wintmalt/Bari 3140
78	10.0871	2	Malting	Wintmalt/Bari 3140
79	10.0876	2	Malting	Wintmalt/Bari 3140
80	10.0877	2	Malting	Wintmalt/Bari 3140
81	10.1183	2	Malting	Wintmalt/Bari 2B08-3145
82	10.1185	2	Malting	Wintmalt/Bari 2B08-3145
83	10.1187	2	Malting	Wintmalt/Bari 2B08-3145
84	10.1194	2	Malting	Wintmalt/Bari 2B08-3145
85	10.1197	2	Malting	Wintmalt/Bari 2B08-3145
86	10.1198	2	Malting	Wintmalt/Bari 2B08-3145

Table 9. Malt DH Mini-Plots Entry List and Pedigrees

(2012-13 Malt Doubled Haploid Mini-Plots)

Entry	Name	Type	Use	Parentage
87	10.1200	2	Malting	Wintmalt/Bari 2B08-3145
88	10.1207	2	Malting	Wintmalt/Bari 2B08-3145
89	10.1208	2	Malting	Wintmalt/Bari 2B08-3145
90	10.1210	2	Malting	Wintmalt/Bari 2B08-3145
91	10.1212	2	Malting	Wintmalt/Bari 2B08-3145
92	10.1227	2	Malting	Wintmalt/Bari 2B08-3149
93	10.1231	2	Malting	Wintmalt/Charles
94	10.1233	2	Malting	Wintmalt/Charles
95	10.1724	2	Malting	Wintmalt/Bari 2B08-3149
96	10.0857	2	Malting	Wintmalt/Charles

Table 10. Malt DH Mini-Plots MQ for Corvallis, OR 2012-13

(2012-13 Malt Doubled Haploid Mini-Plots)

Entry	Name	Rowed	Plump (on 6/64") (%)	Malt Extract (%)	Wort Clarity	Barley Protein (%)	Wort Protein	S/T (%)	DP (°ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)
3	10.0630	2	99.1	80.3	1	12.0	5.77	48.4	135	97.7	81	275
4	10.0634	2	98.4	80.2	1	12.8	5.55	44.5	138	86.8	87	255
5	10.0637	2	99.2	77.7	1	14.8	5.14	36.8	175	66.0	260	214
6	10.0638	2	97.8	77.6	1	14.8	6.29	43.8	179	100.2	196	298
7	10.0639	2	99.2	78.2	1	12.7	3.90	31.8	169	64.5	264	139
8	10.0640	2	97.6	78.9	1	13.7	5.25	39.0	143	89.8	369	240
9	10.0641	2	98.4	79.7	1	11.5	4.83	44.8	141	100.6	44	226
10	10.0643	2	97.2	77.2	1	12.6	4.75	40.6	139	58.8	159	184
11	10.0644	2	96.5	79.9	1	12.3	5.34	45.9	133	95.9	176	229
12	10.0645	2	98.1	77.2	1	13.3	4.51	35.6	159	60.6	276	178
13	10.0647	2	97.6	80.1	1	12.4	5.37	45.0	138	79.1	274	261
14	10.0649	2	98.3	76.2	1	15.5	6.63	44.8	157	88.8	589	279
15	10.0716	2	97.8	79.0	1	12.9	5.24	42.1	118	97.8	298	243
17	10.0720	2	97.8	79.5	1	12.4	5.34	43.3	142	81.8	315	251
18	10.0721	2	97.8	76.6	1	13.8	4.08	31.5	142	72.8	438	150
19	10.0724	2	98.3	75.7	1	14.8	4.96	33.9	176	69.1	377	199
20	10.0726	2	97.2	78.3	1	14.0	5.68	42.8	157	93.0	325	256
21	10.0731	2	97.9	79.7	1	10.8	3.94	38.9	139	73.1	57	156
22	10.0733	2	96.9	77.7	1	12.7	5.66	46.0	157	93.8	51	268
23	10.0741	2	95.7	77.3	1	14.0	5.89	42.2	155	82.8	312	269
24	10.0742	2	97.3	78.9	1	12.9	4.67	37.2	122	68.8	295	185
25	10.0743	2	96.4	78.0	1	15.4	6.54	42.9	151	103.0	277	303
26	10.0744	2	98.7	80.6	1	13.7	6.10	47.0	169	103.8	240	282
27	10.0753	2	92.2	79.8	1	13.2	5.83	44.9	156	86.9	319	277
28	10.0762	2	98.5	78.1	1	13.7	4.98	36.3	148	61.0	386	203
29	10.0763	2	99.0	77.6	1	14.2	5.01	35.9	159	58.6	492	200
30	10.0767	2	99.2	76.1	1	16.5	6.53	41.7	125	89.4	501	283
31	10.0768	2	98.6	79.2	1	12.3	4.84	39.7	161	59.6	176	200

Table 10. Malt DH Mini-Plots MQ for Corvallis, OR 2012-13

(2012-13 Malt Doubled Haploid Mini-Plots)

Entry	Name	Rowed	Plump (on 6/64") (%)	Malt Extract (%)	Wort Clarity	Barley Protein (%)	Wort Protein	S/T (%)	DP (°ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)
32	10.0769	2	96.5	77.6	1	14.6	6.37	45.5	139	98.4	87	318
33	10.0770	2	97.7	81.0	1	11.3	4.92	44.9	117	102.9	169	229
34	10.0771	2	97.5	78.5	1	15.4	6.78	46.8	162	86.6	156	322
35	10.0772	2	98.3	78.5	1	11.3	3.72	34.8	80	53.2	234	156
36	10.0773	2	97.9	78.5	1	11.7	3.46	31.8	83	51.7	574	125
38	10.0779	2	99.3	77.5	1	13.2	3.97	32.3	102	53.9	566	141
39	10.0780	2	99.1	77.2	1	12.6	3.95	31.8	135	45.3	266	148
40	10.0781	2	98.7	80.1	1	12.7	5.94	46.8	144	90.4	323	269
41	10.0785	2	99.1	79.5	1	12.8	5.67	45.7	152	80.3	118	263
42	10.0789	2	98.2	83.5	1	11.6	5.54	51.4	118	82.8	67	273
43	10.0794	2	99.1	80.4	1	11.6	5.17	47.3	119	95.1	199	226
44	10.0797	2	98.9	79.7	1	12.8	5.16	41.9	136	75.7	191	226
45	10.0802	2	98.7	78.1	1	12.5	4.34	35.6	151	69.3	412	172
46	10.0803	2	90.9	77.7	1	11.6	5.31	47.6	161	89.6	56	252
47	10.0806	2	96.9	75.7	1	14.5	4.60	32.4	194	65.5	592	179
48	10.0807	2	97.8	78.0	1	12.8	4.44	37.2	150	60.9	532	176
49	10.0808	2	98.1	77.0	1	11.7	4.19	37.1	125	53.3	604	158
50	10.0809	2	99.3	79.0	1	12.9	4.97	41.4	139	84.3	717	209
51	10.0812	2	99.0	77.7	1	12.5	4.47	37.5	170	70.1	617	171
52	10.0814	2	99.1	80.4	1	13.1	5.59	45.2	149	97.9	227	270
53	10.0815	2	99.0	79.6	1	11.7	4.49	39.5	157	60.4	436	183
54	10.0817	2	98.5	78.6	1	11.8	4.84	41.2	120	66.9	215	205
55	10.0818	2	98.4	81.0	1	11.3	5.24	47.3	127	96.0	129	241
56	10.0819	2	99.0	78.2	1	13.0	4.11	33.9	144	47.2	404	155
57	10.0820	2	98.6	76.5	1	13.4	4.47	34.7	161	60.8	176	172
58	10.0821	2	98.2	77.3	1	13.1	3.85	31.1	144	65.6	217	147
59	10.0824	2	97.0	77.7	1	12.1	3.70	32.0	123	64.2	168	142
60	10.0825	2	98.9	80.9	1	10.6	4.37	43.3	127	64.1	251	195

Table 10. Malt DH Mini-Plots MQ for Corvallis, OR 2012-13

(2012-13 Malt Doubled Haploid Mini-Plots)

Entry	Name	Rowed	Plump (on 6/64") (%)	Malt Extract (%)	Wort Clarity	Barley Protein (%)	Wort Protein	S/T (%)	DP (°ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)
61	10.0826	2	97.1	80.0	1	11.4	5.48	50.7	116	86.5	99	267
62	10.0828	2	97.9	75.7	1	14.9	4.97	33.6	208	79.9	218	198
63	10.0830	2	91.6	77.8	1	13.9	4.82	37.2	150	83.3	284	206
64	10.0831	2	97.9	80.9	1	12.7	5.27	44.6	132	93.8	184	242
65	10.0832	2	97.3	78.4	1	13.3	5.08	40.5	198	81.1	141	215
66	10.0833	2	95.6	81.4	1	11.5	5.37	49.7	134	102.4	76	263
67	10.0837	2	*84.5	78.0	1	12.6	5.64	45.3	162	100.8	95	274
68	10.0839	2	94.0	80.6	1	11.1	4.70	42.8	157	89.6	326	191
69	10.0843	2	98.6	80.3	1	12.2	4.42	36.9	154	59.2	385	176
70	10.0848	2	99.3	80.8	1	12.6	5.97	49.7	138	76.4	374	284
71	10.0851	2	98.7	77.7	1	13.7	4.89	37.1	126	65.9	490	211
72	10.0854	2	98.4	79.9	1	11.4	4.24	39.5	130	68.7	312	181
73	10.0859	2	98.6	78.2	1	12.3	4.22	35.8	106	50.9	621	180
74	10.0861	2	99.1	77.5	1	12.6	4.09	34.6	125	56.8	487	163
75	10.0865	2	97.3	79.1	1	12.6	5.20	42.4	118	81.3	492	232
76	10.0867	2	97.7	77.4	1	12.9	4.54	36.8	131	52.4	481	188
77	10.0870	2	92.9	78.4	1	11.7	5.06	44.6	132	90.0	410	227
78	10.0871	2	90.0	79.7	1	10.1	4.80	51.2	112	79.7	62	230
79	10.0876	2	95.4	78.2	1	12.2	4.45	38.4	123	69.9	367	184
80	10.0877	2	97.4	80.1	1	12.6	5.99	49.9	178	82.6	311	277
81	10.1183	2	93.9	79.9	1	12.7	5.86	48.1	139	86.0	97	282
82	10.1185	2	95.5	80.9	1	12.3	5.41	47.8	142	79.0	101	258
83	10.1187	2	97.6	81.2	1	12.2	5.37	45.6	153	92.5	218	243
84	10.1194	2	97.9	80.3	1	11.3	4.79	44.1	121	91.0	466	214
85	10.1197	2	97.0	80.8	1	10.6	4.46	43.7	117	86.8	189	198
86	10.1198	2	98.6	80.8	2	11.6	5.45	47.2	144	95.4	88	249
87	10.1200	2	97.8	80.8	1	12.2	5.47	46.4	132	94.1	172	259
88	10.1207	2	95.5	76.4	1	14.6	5.77	41.4	132	96.2	365	258

Table 10. Malt DH Mini-Plots MQ for Corvallis, OR 2012-13

(2012-13 Malt Doubled Haploid Mini-Plots)

Entry	Name	Rowed	Plump (on 6/64") (%)	Malt Extract (%)	Wort Clarity	Barley Protein (%)	Wort Protein	S/T (%)	DP (°ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)
89	10.1208	2	97.4	79.6	1	12.4	4.25	35.3	130	70.5	142	172
90	10.1210	2	99.3	79.6	1	12.4	5.05	43.3	156	59.6	162	222
91	10.1212	2	98.1	81.4	1	10.9	5.26	48.6	137	96.9	121	246
92	10.1227	2	97.7	80.5	1	13.2	5.91	46.0	146	95.3	296	264
93	10.1231	2	98.2	79.6	3	11.5	3.69	35.0	99	54.7	271	132
94	10.1233	2	95.9	79.1	1	12.9	5.72	47.1	159	103.1	221	256
95	10.1724	2	95.5	79.6	1	13.1	5.74	44.7	157	100.4	199	292
96	10.0857	2	97.9	80.1	1	12.4	5.55	45.6	151	96.5	113	286

Table 11. Malt DH SR Fall Planted Entry List and Pedigrees (Selections)

(2012-13 Malt Doubled Haploid Single Rows Fall Planted)

Entry	Name	Type	Use	Parentage
289	DH120074	2	Malting	Maris Otter/BCD47
303	DH120181	2	Malting	Maris Otter/BCD47
326	DH120244	2	Malting	Maris Otter/BCD47
367	DH120161	2	Malting	Wintmalt/Charles//BCD47
369	DH120164	2	Malting	Wintmalt/Charles//BCD47
376	DH120186	2	Malting	Wintmalt/Charles//BCD47

Table 12. Malt DH SR Fall Planted MQ for Corvallis, OR 2012-13 (Selections)

(2012-13 Malt Doubled Haploid Single Rows Fall Planted)

Entry	Name	Rowed	Plump (on 6/64") (%)	Malt Extract (%)	Wort Clarity	Barley Protein (%)	Wort Protein	S/T (%)	DP (°ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)
289	DH120074	2	96.9	77.8	1	13.9	5.05	37.8	166	89.2	206	201
303	DH120181	2	98.6	78.0	1	12.9	4.41	35.3	134	49.8	182	159
326	DH120244	2	98.9	78.2	1	12.7	4.09	32.4	114	62.0	486	149
367	DH120161	2	98.9	77.2	1	13.4	4.70	37.1	160	77.7	242	191
369	DH120164	2	99.2	76.3	1	14.0	4.72	36.2	129	70.4	471	205
376	DH120186	2	98.4	79.1	1	14.5	6.85	49.6	169	109.6	89	335

Table 13. Malt DH SR Winter Planted Entry List and Pedigrees (Selections)

(2012-13 Malt Doubled Haploid Single Rows Winter Planted)

Entry	Name	Type	Use	Parentage
7	DH120093	2	Malting	Golden Promise#1/BISON 1,4,5
12	DH120095	2	Malting	Golden Promise#1/BISON 1,4,5
14	DH120334	2	Malting	Golden Promise#1/BISON 1,4,5
22	DH120117	2	Malting	Golden Promise#1/BISON 1,4,5
23	DH120118	2	Malting	Golden Promise#1/BISON 1,4,5
27	DH120147	2	Malting	Golden Promise#1/BISON 1,4,5
32	DH120218	2	Malting	Golden Promise#1/BISON 1,4,5
38	DH120011	2	Malting	Golden Promise#1/BISON 1,4,5
43	DH120121	2	Malting	Golden Promise#1/BISON 1,4,5
48	DH120257	2	Malting	Golden Promise#1/BISON 1,4,5
61	DH120021	2	Malting	Golden Promise#1/BISON 1,4,5
63	DH120040	2	Malting	Golden Promise#1/BISON 1,4,5
72	DH120131	2	Malting	Golden Promise#1/BISON 1,4,5
77	DH120170	2	Malting	Golden Promise#1/BISON 1,4,5
80	DH120222	2	Malting	Golden Promise#1/BISON 1,4,5
85	DH120258	2	Malting	Golden Promise#1/BISON 1,4,5
86	DH120259	2	Malting	Golden Promise#1/BISON 1,4,5
89	DH120292	2	Malting	Golden Promise#1/BISON 1,4,5
90	DH120288	2	Malting	LPZ76/Charles//BCD47
95	DH120270	2	Malting	Maris Otter/BCD47
96	DH120271	2	Malting	Maris Otter/BCD47
101	DH120276	2	Malting	Maris Otter/BCD47
112	DH120309	2	Malting	Maris Otter/BCD47
133	DH130277	2	Malting	OR107/BCD47
134	DH130276	2	Malting	OR107/BCD47
137	DH130158	2	Malting	OR107/BCD47
153	DH130153	2	Malting	OR818 /BCD47
162	DH130051	2	Malting	OR818/Bison 1,4,5
164	DH120329	2	Malting	OR818/Bison 1,4,5
174	DH130260	2	Malting	OR91/BCD47
227	DH120428	2	Malting	OR92/BCD47
240	DH120417	2	Malting	PO71DH87 (TC6W-040)/BCD47
241	DH130148	2	Malting	PO71DH87 (TC6W-040)/BCD47
243	DH120361	2	Malting	PO71DH87 (TC6W-040)/BCD47
247	DH120454	2	Malting	PO71DH87 (TC6W-040)/BCD47
256	DH130271	2	Malting	SHORT11-10 (TC6W261)///LPZ76/Charles//BCD47
259	DH130307	2	Malting	SHORT11-10 (TC6W261)///LPZ76/Charles//BCD47
260	DH130041	2	Malting	SHORT11-10 (TC6W261)///LPZ76/Charles//BCD47
261	DH130156	2	Malting	SHORT11-10 (TC6W261)///LPZ76/Charles//BCD47
262	DH130155	2	Malting	SHORT11-10 (TC6W261)///LPZ76/Charles//BCD47
263	DH130154	2	Malting	SHORT11-10 (TC6W261)///LPZ76/Charles//BCD47

Table 13. Malt DH SR Winter Planted Entry List and Pedigrees (Selections)

(2012-13 Malt Doubled Haploid Single Rows Winter Planted)

Entry	Name	Type	Use	Parentage
265	DH130038	2	Malting	SHORT11-10 (TC6W261)///LPZ76/Charles//BCD47
269	DH130021	2	Malting	SHORT11-10 (TC6W261)/BISON 1,4,5
270	DH120359	2	Malting	SHORT11-10 (TC6W261)/BISON 1,4,5
275	DH120452	2	Malting	SHORT11-10 (TC6W261)/BISON 1,4,5
360	DH120267	2	Malting	Wintmalt/Charles//BCD47
361	DH120297	2	Malting	Wintmalt/Charles//BCD47
362	DH120269	2	Malting	Wintmalt/Charles//BCD47
366	DH120286	2	Malting	Wintmalt/Charles//BCD47
369	DH120293	2	Malting	Wintmalt/Charles//BCD47

Table 14. Malt DH SR Winter Planted MQ for Corvallis, OR 2012-13 (Selections)

(2012-13 Malt Doubled Haploid Single Rows Winter Planted)

Entry	Name	Rowed	Plump (on 6/64") (%)	Malt Extract (%)	Wort Clarity	Barley Protein (%)	Wort Protein	S/T (%)	DP (°ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)
7	DH120093	2	97.2	78.3	1	12.1	3.80	33.4	87	57.6	458	161
12	DH120095	2	98.3	76.8	2	12.2	3.69	31.2	90	54.6	464	144
14	DH120334	2	98.2	78.0	1	12.2	4.30	38.0	90	69.4	303	193
22	DH120117	2	97.1	75.8	1	12.5	4.22	34.5	111	54.0	304	208
23	DH120118	2	97.4	76.4	1	13.2	4.07	31.3	115	52.4	441	182
27	DH120147	2	96.2	76.9	1	12.8	4.59	37.8	137	77.1	113	236
32	DH120218	2	94.2	78.1	3	10.0	3.83	40.7	73	57.8	270	168
38	DH120011	2	98.7	77.3	1	11.0	4.14	40.4	107	64.3	178	181
43	DH120121	2	96.4	76.6	1	12.0	4.21	36.2	111	67.6	212	179
48	DH120257	2	97.6	76.2	1	11.8	4.38	39.2	107	55.7	421	191
61	DH120021	2	98.0	77.5	2	11.9	4.02	35.6	103	66.6	438	158
63	DH120040	2	94.7	76.3	1	11.6	4.07	36.6	94	59.3	361	176
72	DH120131	2	98.7	75.9	1	12.2	4.43	38.0	127	62.7	221	197
77	DH120170	2	91.8	76.5	1	11.6	3.90	36.3	88	67.9	358	171
80	DH120222	2	94.9	77.9	1	10.5	3.74	38.5	77	56.1	394	157
85	DH120258	2	96.0	75.3	2	12.3	3.87	33.4	102	59.9	560	163
86	DH120259	2	92.5	78.2	1	11.1	4.40	41.7	88	65.2	282	200
89	DH120292	2	98.4	78.3	1	11.7	3.96	35.0	110	69.3	385	168
90	DH120288	2	98.7	81.4	1	11.7	5.74	51.3	144	84.8	108	276
95	DH120270	2	97.6	75.0	1	13.7	4.30	33.4	139	50.4	568	172
96	DH120271	2	98.7	76.8	1	14.8	5.87	42.4	181	60.1	246	270
101	DH120276	2	98.1	78.6	1	13.3	5.64	44.2	148	69.6	237	267
112	DH120309	2	95.1	76.0	1	13.0	4.67	36.9	160	54.5	462	187
133	DH130277	2	99.6	79.1	1	13.1	5.65	43.9	133	68.0	149	256
134	DH130276	2	97.8	76.2	1	13.1	5.30	41.5	160	70.8	304	259
137	DH130158	2	99.2	76.5	1	14.4	4.94	35.1	177	60.4	259	196
153	DH130153	2	93.5	75.2	1	16.8	6.07	38.3	158	61.3	549	275
162	DH130051	2	98.9	77.4	1	14.5	5.86	40.8	175	69.0	275	269

Table 14. Malt DH SR Winter Planted MQ for Corvallis, OR 2012-13 (Selections)

(2012-13 Malt Doubled Haploid Single Rows Winter Planted)

Entry	Name	Rowed	Plump (on 6/64") (%)	Malt Extract (%)	Wort Clarity	Barley Protein (%)	Wort Protein	S/T (%)	DP (°ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)
164	DH120329	2	97.5	76.5	1	14.9	5.41	38.9	125	74.8	678	254
174	DH130260	2	95.7	76.0	1	16.9	6.26	39.1	*249	87.1	288	267
227	DH120428	2	96.8	75.9	1	15.7	6.24	40.3	171	76.9	619	287
240	DH120417	2	98.0	78.2	1	14.2	5.17	37.4	158	88.6	148	223
241	DH130148	2	98.7	73.6	2	15.5	4.23	29.1	160	46.3	475	142
243	DH120361	2	99.6	74.4	1	15.9	5.02	33.3	194	67.6	346	182
247	DH120454	2	93.5	75.5	1	14.1	4.44	33.3	173	78.1	279	174
256	DH130271	2	97.5	78.2	1	14.5	6.21	43.4	150	102.1	187	279
259	DH130307	2	98.6	79.0	1	15.0	6.23	43.0	218	94.2	68	278
260	DH130041	2	96.8	77.1	1	15.8	6.10	40.4	221	110.8	243	281
261	DH130156	2	97.1	75.3	1	16.2	5.54	35.8	155	110.6	338	256
262	DH130155	2	98.7	77.1	1	15.8	5.88	38.2	195	92.9	408	267
263	DH130154	2	95.7	81.9	1	13.3	6.09	48.8	161	97.8	137	274
265	DH130038	2	98.5	78.2	1	13.8	5.80	44.6	124	82.9	155	259
269	DH130021	2	99.1	77.3	1	13.1	4.66	36.1	113	55.4	227	188
270	DH120359	2	97.7	75.8	1	14.4	4.79	34.7	129	58.8	568	211
275	DH120452	2	97.6	75.7	1	15.0	4.94	33.7	168	57.6	329	177
360	DH120267	2	99.2	77.5	1	12.5	4.27	36.1	140	76.5	331	157
361	DH120297	2	99.8	76.3	1	13.1	4.30	35.2	124	63.5	401	153
362	DH120269	2	98.3	77.1	1	11.8	4.37	38.2	121	79.0	464	168
366	DH120286	2	97.3	77.1	1	13.6	4.57	36.0	186	80.8	233	175
369	DH120293	2	95.2	75.3	1	14.2	4.80	34.6	123	81.6	225	177

Table 15. Malt DH SR Late Winter Planted Entry List and Pedigrees (Selections)

(2012-13 Malt Doubled Haploid Single Rows Late Winter Planted)

Entry	Name	Type	Use	Parentage
1	DH130637	2	Malting	BCD47/VIOLETTA
7	DH130772	2	Malting	BCD47/VIOLETTA
54	DH130559	2	Malting	OR107/BCD47
144	DH130460	2	Malting	OR910/BISON 1,4,5
155	DH130542	2	Malting	OR92/BCD47
205	DH130522	2	Malting	SHORT11-10 (TC6W261)///LPZ76/Charles//BCD47
209	DH130526	2	Malting	SHORT11-10 (TC6W261)///LPZ76/Charles//BCD47
227	DH130725	2	Malting	SHORT11-10 (TC6W261)/3/LPZ76/Charles//BCD47
255	DH130819	2	Malting	SHORT11-13 (TC6W264)/HERZ 29494/2991 (35)
296	DH130820	2	Malting	SHORT11-7 (TC6W265)/HERZ 29494/2991 (35)
308	DH130910	2	Malting	SHORT11-7 (TC6W265)/HERZ 29494/2991 (35)
318	DH130404	2	Malting	SHORT11-9 (TC6W258)/KW2-042
336	DH130609	2	Malting	SHORT11-9 (TC6W258)/KW2-042
340	DH130709	2	Malting	SHORT11-9 (TC6W258)/KW2-042
352	DH130842	2	Malting	SHORT11-9 (TC6W258)/KW2-042

Table 16. Malt DH SR Late Winter Planted MQ for Corvallis, OR 2012-13 (Selections)

(2012-13 Malt Doubled Haploid Single Rows Late Winter Planted)

Entry	Name	Rowed	Plump (on 6/64") (%)	Malt Extract (%)	Wort Clarity	Barley Protein (%)	Wort Protein	S/T (%)	DP (°ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)
1	DH130637	2	92.9	76.4	1	14.0	4.60	35.2	115	61.9	278	168
7	DH130772	2	97.2	77.4	1	13.3	4.94	37.4	184	70.4	118	165
54	DH130559	2	93.3	72.2	1	17.5	5.12	30.2	151	75.8	514	168
144	DH130460	2	95.7	75.9	1	13.6	6.01	45.0	100	89.9	392	272
155	DH130542	2	96.4	74.2	1	17.0	6.01	36.6	154	89.0	559	232
205	DH130522	2	96.7	75.5	1	16.0	5.63	36.9	187	95.3	336	220
209	DH130526	2	96.2	75.4	1	17.6	6.96	39.9	171	98.7	207	282
227	DH130725	2	93.4	77.0	1	16.0	6.38	40.9	157	90.4	180	252
255	DH130819	2	93.5	73.5	1	16.7	5.60	33.7	189	62.3	433	216
296	DH130820	2	96.2	77.1	1	14.2	5.94	42.4	153	74.6	181	237
308	DH130910	2	96.9	76.3	1	15.6	5.42	35.6	163	53.8	311	194
318	DH130404	2	90.0	75.1	1	14.5	5.25	36.6	134	88.6	375	218
336	DH130609	2	*83.2	75.3	1	15.0	6.37	44.7	156	87.2	196	271
340	DH130709	2	96.4	73.4	1	15.9	5.56	35.0	152	72.1	395	203
352	DH130842	2	*78.4	76.6	1	14.6	5.10	37.2	129	76.3	232	207

Table 17. TCAP NUE Entry List and Pedigrees

(2012-13 TCAP Nitrogen Use Efficiency Trial (High N))

Entry	Name	Type	Use	Parentage
TC6W-001	OR76	6	Malting	STAB 47/KAB 51-20
TC6W-002	OR77	6	Feed	Strider/Orca
TC6W-003	OR813	6	Malting	Stab47/Kab51
TC6W-004	OR815	6	Malting	CC99B
TC6W-005	OR816	6	Malting	CC99B
TC6W-006	OR818	6	Malting	Bu27/Stab47, F1/3/Maja/Stab47
TC6W-007	Maja	6	Malting	Strider/88Ab536
TC6W-008	OR91	6	Malting	Bu27/Stab47, F1/3/Maja/Stab47
TC6W-009	OR92	6	Malting	Bu27/Stab47, F1/3/Maja/Stab47
TC6W-010	OR97	6	Malting	Bu27/Stab47, F1/3/Maja/Stab47
TC6W-011	OR98	6	Malting	Bu27/Stab47, F1/3/Maja/Stab47
TC6W-012	OR910	6	Malting	Bu27/Stab47, F1/3/Maja/Stab47
TC6W-013	OR915	6	Malting	Kab51/Excel//Maja/3/Stab7/Maja
TC6W-014	OR101	6	Malting	StabBC 42-3-9/3/Kab51/Legacy//Kab51
TC6W-015	OR102	6	Malting	StabBC 42-4-2/Stab 7-2
TC6W-016	OR103	6	Malting	StabBC 42-4-2/3/Kab51/Legacy//Kab51
TC6W-017	OR104	6	Malting	StabBC 50-7-3/Maja
TC6W-018	OR105	6	Malting	StabBC 50-7-3/Maja
TC6W-019	OR106	6	Malting	StabBC 50-7-3/Maja
TC6W-020	OR107	6	Malting	J2-16-9//Maja/K47-5
TC6W-021	OR108	6	Malting	J2-16-9/Maja
TC6W-022	OR109	6	Malting	J2-16-13/Maja
TC6W-023	OR110	6	Malting	StabBC 42-4-2/Stab 7-7
TC6W-024	OR111	6	Malting	StabBC 42-4-2/3/Kab51/Legacy//Kab51
TC6W-025	OR112	6	Malting	StabBC 50-7-3/Maja
TC6W-026	OR113	6	Malting	StabBC 50-7-3/Maja
TC6W-027	OR114	6	Malting	Strider/3/Maja/Legacy//Maja
TC6W-028	Strider	6	Feed	OR1860164/Steptoe
TC6W-029	Eight-Twelve	6	Malting	Eight-Twelve
TC6W-030	OBADV11-2	6	Malting	NB3437f/OR71
TC6W-031	OBADV11-6	6	Malting	NB3437f/OR72
TC6W-032	OBADV11-13	6	Malting	NB3437f/OR76
TC6W-033	OBADV11-14	6	Malting	NB3437f/OR71
TC6W-034	OBADV11-17	6	Malting	NB3437f/OR71
TC6W-035	OBADV11-26	6	Malting	NB3437f/OR71
TC6W-036	OBADV11-29	6	Malting	NB3437f/OR71
TC6W-037	OBADV11-30	6	Malting	NB3437f/OR71
TC6W-038	OBADV11-31	6	Malting	NB3437f/OR71
TC6W-039	PO71DH-84	6	Malting	P713/OR71
TC6W-040	PO71DH-87	6	Malting	P713/OR71
TC6W-041	PO71DH-94	6	Malting	P713/OR71
TC6W-042	PO71DH-104	6	Malting	P713/OR71
TC6W-043	PO71DH-111	6	Malting	P713/OR71
TC6W-044	PYT211-6	6	Malting	S113/L//S113/3/Kab 47

Table 17. TCAP NUE Entry List and Pedigrees

(2012-13 TCAP Nitrogen Use Efficiency Trial (High N))

Entry	Name	Type	Use	Parentage
TC6W-045	PYT211-10	6	Malting	StabBC 50-7-3/Stab 113
TC6W-046	2011-F5-2-1	6	Malting	StabBC 42-3-4//Bu 37/Stab 113-13 #3
TC6W-047	2011-F5-3-1	6	Malting	StabBC 42-3-4//Bu 37/Stab 113-15 #9
TC6W-048	2011-F5-3-2	6	Malting	StabBC 42-3-4//Bu 37/Stab 113-15 #9
TC6W-049	2011-F5-4-1	6	Malting	StabBC 42-3-4//Bu 37/Stab 113-15 #9
TC6W-050	2011-F5-4-2	6	Malting	StabBC 42-3-4//Bu 37/Stab 113-15 #9
TC6W-051	2011-F5-5-1	6	Malting	StabBC 42-3-4//Bu 37/Stab 113-15 #9
TC6W-052	2011-F5-7-1	6	Malting	StabBC 42-3-2/Bu 37/Stab 113-15 #12
TC6W-053	2011-F5-7-3	6	Malting	StabBC 42-3-2/Bu 37/Stab 113-15 #12
TC6W-054	2011-F5-7-4	6	Malting	StabBC 42-3-2/Bu 37/Stab 113-15 #12
TC6W-055	2011-F5-8-2	6	Malting	StabBC 50-7-6/Stab 113
TC6W-056	2011-F5-8-3	6	Malting	StabBC 50-7-6/Stab 113
TC6W-057	2011-F5-9-2	6	Malting	StabBC 50-7-6//Bu 37/Stab 113-13 # 12
TC6W-058	2011-F5-9-3	6	Malting	StabBC 50-7-6//Bu 37/Stab 113-13 # 12
TC6W-059	2011-F5-16-1	6	Malting	StabBC 42-4-5//Bu 37/Stab 113-15 #12-3
TC6W-060	2011-F5-16-2	6	Malting	StabBC 42-4-5//Bu 37/Stab 113-15 #12-3
TC6W-061	2011-F5-16-3	6	Malting	StabBC 42-4-5//Bu 37/Stab 113-15 #12-3
TC6W-062	2011-F5-16-4	6	Malting	StabBC 42-4-5//Bu 37/Stab 113-15 #12-3
TC6W-063	2011-F5-17-1	6	Malting	StabBC 42-3-4//Bu 37/Stab 113-13 #3
TC6W-064	2011-F5-22-1	6	Malting	StabBC 42-3-2/Bu 37/Stab 113-13 #4
TC6W-065	2011-F5-22-3	6	Malting	StabBC 42-3-2/Bu 37/Stab 113-13 #4
TC6W-066	2011-F5-23-1	6	Malting	StabBC 42-3-2/Bu 37/Stab 113-13 #4
TC6W-067	2011-F5-24-1	6	Malting	StabBC 42-3-2/Bu 37/Stab 113-15 #12
TC6W-068	2011-F5-25-1	6	Malting	StabBC 42-3-2/Bu 37/Stab 113-15 #12
TC6W-069	2011-F5-25-2	6	Malting	StabBC 42-3-2/Bu 37/Stab 113-15 #12
TC6W-070	2011-F5-27-1	6	Malting	StabBC 42-3-2/Bu 37/Stab 113-15 #12
TC6W-071	2011-F5-27-2	6	Malting	StabBC 42-3-2/Bu 37/Stab 113-15 #12
TC6W-072	2011-F5-27-3	6	Malting	StabBC 42-3-2/Bu 37/Stab 113-15 #12
TC6W-073	2011-F5-29-1	6	Malting	StabBC 50-7-6/Stab 113
TC6W-074	2011-F5-32-1	6	Malting	StabBC 50-7-6//Bu 37/Stab 113-13 # 12
TC6W-075	2011-F5-35-1	6	Malting	UTWB940119/StabBC 50-7-6
TC6W-076	2011-F5-35-2	6	Malting	UTWB940119/StabBC 50-7-6
TC6W-077	2011-F5-36-1	6	Malting	UTWB940119/J1-8-17
TC6W-078	2011-F5-36-2	6	Malting	UTWB940119/J1-8-17
TC6W-079	2011-F5-36-3	6	Malting	UTWB940119/J1-8-17
TC6W-080	2011-F5-37-1	6	Malting	UTWB940119/J1-8-17
TC6W-081	2011-F5-37-2	6	Malting	UTWB940119/J1-8-17
TC6W-082	2011-F5-37-3	6	Malting	UTWB940119/J1-8-17
TC6W-083	2011-F5-37-4	6	Malting	UTWB940119/J1-8-17
TC6W-084	2011-F5-37-5	6	Malting	UTWB940119/J1-8-17
TC6W-085	2011-F5-47-1	6	Malting	StabBC 42-4-5//Bu 37/Stab 113-13 #3-6
TC6W-086	2011-F5-47-2	6	Malting	StabBC 42-4-5//Bu 37/Stab 113-13 #3-6
TC6W-087	2011-F5-47-3	6	Malting	StabBC 42-4-5//Bu 37/Stab 113-13 #3-6
TC6W-088	2011-F5-48-1	6	Malting	StabBC 42-3-2/Bu 37/Stab 113-13 #4

Table 17. TCAP NUE Entry List and Pedigrees

(2012-13 TCAP Nitrogen Use Efficiency Trial (High N))

Entry	Name	Type	Use	Parentage
TC6W-089	2011-F5-49-1	6	Malting	StabBC 42-3-2/Bu 37/Stab 113-15 #12
TC6W-090	2011-F5-50-1	6	Malting	StabBC 42-3-2/Bu 37/Stab 113-15 #15
TC6W-091	2011-F5-52-1	6	Malting	StabBC 50-7-6/Stab 113
TC6W-092	2011-F5-52-2	6	Malting	StabBC 50-7-6/Stab 113
TC6W-093	2011-F5-52-3	6	Malting	StabBC 50-7-6/Stab 113
TC6W-094	2011-F5-55-1	6	Malting	UTWB940119/J1-8-17
TC6W-095	2011-F5-55-2	6	Malting	UTWB940119/J1-8-17
TC6W-096	2011-F5-56-1	6	Malting	Stab 47/Kab 51-7//StabBC 42-4-5-2
TC6W-097	2011-F5-56-3	6	Malting	Stab 47/Kab 51-7//StabBC 42-4-5-2
TC6W-098	2011-F5-57-2	6	Malting	Stab 47/Kab 51-7//StabBC 42-4-5-2
TC6W-099	2011-F5-58-1	6	Malting	Stab 47/Kab 51-7//StabBC 42-4-5-4
TC6W-100	2011-F5-59-1	6	Malting	Stab 47/Kab 51-7//StabBC 42-4-5-5
TC6W-101	2011-F5-59-2	6	Malting	Stab 47/Kab 51-7//StabBC 42-4-5-5
TC6W-102	2011-F5-60-1	6	Malting	StabBC 182-4-2//Stab 47/Kab 51-7
TC6W-103	2011-F5-60-2	6	Malting	StabBC 182-4-2//Stab 47/Kab 51-7
TC6W-104	2011-F5-63-1	6	Malting	J2-5-1///S47/E//S47-39
TC6W-105	2011-F5-63-2	6	Malting	J2-5-1///S47/E//S47-39
TC6W-106	2011-F5-64-1	6	Malting	StabBC 42-3-2/Bu 37/Stab 113-13 #4
TC6W-107	2011-F5-66-2	6	Malting	K 51/E//S113/3/Stab 7/Stab 113-8
TC6W-108	2011-F5-66-3	6	Malting	K 51/E//S113/3/Stab 7/Stab 113-8
TC6W-109	2011-F5-72-1	6	Malting	UTWB940119/StabBC 50-7-6
TC6W-110	2011-F5-72-2	6	Malting	UTWB940119/StabBC 50-7-6
TC6W-111	2011-F5-72-3	6	Malting	UTWB940119/StabBC 50-7-6
TC6W-112	2011-F5-72-4	6	Malting	UTWB940119/StabBC 50-7-6
TC6W-113	2011-F5-75-1	6	Malting	Stab 47/Kab 51-7//StabBC 42-4-5-12
TC6W-114	2011-F5-76-1	6	Malting	Stab 47/Kab 51-7//StabBC 42-4-5-14
TC6W-115	2011-F5-76-2	6	Malting	Stab 47/Kab 51-7//StabBC 42-4-5-14
TC6W-116	2011-F5-76-3	6	Malting	Stab 47/Kab 51-7//StabBC 42-4-5-14
TC6W-117	2011-F5-76-4	6	Malting	Stab 47/Kab 51-7//StabBC 42-4-5-14
TC6W-118	2011-F5-79-1	6	Malting	Stab 47/Kab 51-7//StabBC 50-7-6-2
TC6W-119	2011-F5-83-1	6	Malting	StabBC 42-4-5//Stab 47/Kab 51-9
TC6W-120	2011-F5-84-1	6	Malting	StabBC 182-4-2//Stab 47/Kab 51-9
TC6W-121	2011-F5-84-2	6	Malting	StabBC 182-4-2//Stab 47/Kab 51-9
TC6W-122	2011-F5-85-1	6	Malting	StabBC 182-4-2//Stab 47/Kab 51-7
TC6W-123	2011-F5-85-2	6	Malting	StabBC 182-4-2//Stab 47/Kab 51-7
TC6W-124	2011-F5-86-1	6	Malting	StabBC 182-4-2//Stab 47/Kab 51-7
TC6W-125	2011-F5-86-2	6	Malting	StabBC 182-4-2//Stab 47/Kab 51-7
TC6W-126	2011-F5-87-1	6	Malting	StabBC 182-4-2//Stab 47/Kab 51-7
TC6W-127	2011-F5-88-1	6	Malting	StabBC 182-4-2//Stab 47/Kab 51-7
TC6W-128	2011-F5-88-2	6	Malting	StabBC 182-4-2//Stab 47/Kab 51-7
TC6W-129	2011-F5-88-3	6	Malting	StabBC 182-4-2//Stab 47/Kab 51-7
TC6W-130	2011-F5-90-4	6	Malting	StabBC 182-4-2///K47/E//S47/E-59
TC6W-131	2011-F5-90-5	6	Malting	StabBC 182-4-2///K47/E//S47/E-59
TC6W-132	2011-F5-91-1	6	Malting	StabBC 182-4-2///K47/E//S47/E-59

Table 17. TCAP NUE Entry List and Pedigrees

(2012-13 TCAP Nitrogen Use Efficiency Trial (High N))

Entry	Name	Type	Use	Parentage
TC6W-133	2011-F5-91-2	6	Malting	StabBC 182-4-2///K47/E//S47/E-59
TC6W-134	2011-F5-93-1	6	Malting	J2-5-1///K51/E//K51-9
TC6W-135	2011-F5-94-1	6	Malting	J2-5-1///K51/E//K51-9
TC6W-136	2011-F5-95-1	6	Malting	J2-5-1///S47/E//S47-37
TC6W-137	2011-F5-96-1	6	Malting	J2-5-1///S47/E//S47-37
TC6W-138	2011-F5-96-2	6	Malting	J2-5-1///S47/E//S47-37
TC6W-139	2011-F5-96-3	6	Malting	J2-5-1///S47/E//S47-37
TC6W-140	2011-F5-96-4	6	Malting	J2-5-1///S47/E//S47-37
TC6W-141	2011-F5-97-1	6	Malting	J2-5-1///S47/E//S47-37
TC6W-142	2011-F5-99-1	6	Malting	J2-5-1///S47/E//S47-39
TC6W-143	2011-F5-105-1	6	Malting	Stab 47/Kab 51-7//StabBC 42-4-5-6
TC6W-144	2011-F5-105-2	6	Malting	Stab 47/Kab 51-7//StabBC 42-4-5-6
TC6W-145	2011-F5-105-3	6	Malting	Stab 47/Kab 51-7//StabBC 42-4-5-6
TC6W-146	2011-F5-105-4	6	Malting	Stab 47/Kab 51-7//StabBC 42-4-5-6
TC6W-147	2011-F5-106-1	6	Malting	Stab 47/Kab 51-7//StabBC 42-4-5-7
TC6W-148	2011-F5-106-2	6	Malting	Stab 47/Kab 51-7//StabBC 42-4-5-7
TC6W-149	2011-F5-107-2	6	Malting	Stab 47/Kab 51-7//StabBC 42-4-5-8
TC6W-150	2011-F5-108-1	6	Malting	Stab 47/Kab 51-7//StabBC 42-4-5-10
TC6W-151	2011-F5-109-1	6	Malting	Stab 47/Kab 51-7//StabBC 42-4-5-10
TC6W-152	2011-F5-109-2	6	Malting	Stab 47/Kab 51-7//StabBC 42-4-5-10
TC6W-153	2011-F5-109-3	6	Malting	Stab 47/Kab 51-7//StabBC 42-4-5-10
TC6W-154	2011-F5-110-1	6	Malting	Stab 47/Kab 51-7//StabBC 42-4-5-11
TC6W-155	2011-F5-112-1	6	Malting	Stab 47/Kab 51-7//StabBC 42-4-5-14
TC6W-156	2011-F5-112-2	6	Malting	Stab 47/Kab 51-7//StabBC 42-4-5-14
TC6W-157	2011-F5-112-3	6	Malting	Stab 47/Kab 51-7//StabBC 42-4-5-14
TC6W-158	2011-F5-113-1	6	Malting	Stab 47/Kab 51-7//StabBC 50-7-6-1
TC6W-159	2011-F5-113-2	6	Malting	Stab 47/Kab 51-7//StabBC 50-7-6-1
TC6W-160	2011-F5-113-3	6	Malting	Stab 47/Kab 51-7//StabBC 50-7-6-1
TC6W-161	2011-F5-115-1	6	Malting	Stab 47/Kab 51-7//StabBC 50-7-6-3
TC6W-162	2011-F5-118-1	6	Malting	Stab 47/Kab 51-7//StabBC 42-3-2-4
TC6W-163	2011-F5-119-1	6	Malting	Stab 47/Kab 51-7//StabBC 42-3-2-4
TC6W-164	2011-F5-119-2	6	Malting	Stab 47/Kab 51-7//StabBC 42-3-2-4
TC6W-165	2011-F5-120-1	6	Malting	Stab 47/Kab 51-7//StabBC 42-3-2-5
TC6W-166	2011-F5-120-2	6	Malting	Stab 47/Kab 51-7//StabBC 42-3-2-5
TC6W-167	2011-F5-120-3	6	Malting	Stab 47/Kab 51-7//StabBC 42-3-2-5
TC6W-168	2011-F5-121-1	6	Malting	Stab 47/Kab 51-7//StabBC 42-3-2-5
TC6W-169	2011-F5-121-2	6	Malting	Stab 47/Kab 51-7//StabBC 42-3-2-5
TC6W-170	2011-F5-121-3	6	Malting	Stab 47/Kab 51-7//StabBC 42-3-2-5
TC6W-171	2011-F5-121-4	6	Malting	Stab 47/Kab 51-7//StabBC 42-3-2-5
TC6W-172	2011-F5-121-5	6	Malting	Stab 47/Kab 51-7//StabBC 42-3-2-5
TC6W-173	2011-F5-122-1	6	Malting	Stab 47/Kab 51-7//J1-8-17-2
TC6W-174	2011-F5-123-1	6	Malting	Stab 47/Kab 51-7//J1-8-17-4
TC6W-175	2011-F5-124-1	6	Malting	Stab 47/Kab 51-7//J1-8-17-5
TC6W-176	2011-F5-126-1	6	Malting	StabBC 182-4-2//Stab 47/Kab 51-9

Table 17. TCAP NUE Entry List and Pedigrees

(2012-13 TCAP Nitrogen Use Efficiency Trial (High N))

Entry	Name	Type	Use	Parentage
TC6W-177	2011-F5-126-2	6	Malting	StabBC 182-4-2//Stab 47/Kab 51-9
TC6W-178	2011-F5-129-1	6	Malting	StabBC 182-4-2///K47/E//S47/E-59
TC6W-179	2011-F5-131-1	6	Malting	StabBC 42-3-4//Stab 47/Kab 51-20
TC6W-180	2011-F5-132-1	6	Malting	StabBC 42-3-4//Bu 37/Stab 113-15 #9
TC6W-181	2011-F5-134-1	6	Malting	J2-5-1///K51/E//K51-9
TC6W-182	2011-F5-134-2	6	Malting	J2-5-1///K51/E//K51-9
TC6W-183	2011-F5-134-3	6	Malting	J2-5-1///K51/E//K51-9
TC6W-184	2011-F5-135-1	6	Malting	J2-5-1///S47/E//S47-37
TC6W-185	2011-F5-135-2	6	Malting	J2-5-1///S47/E//S47-37
TC6W-186	2011-F5-135-3	6	Malting	J2-5-1///S47/E//S47-37
TC6W-187	2011-F5-135-4	6	Malting	J2-5-1///S47/E//S47-37
TC6W-188	2011-F5-136-1	6	Malting	UTWB940119/J1-8-17
TC6W-189	2011-F5-140-1	6	Malting	StabBC 50-7-6/Stab 113
TC6W-190	2011-F5-140-2	6	Malting	StabBC 50-7-6/Stab 113
TC6W-191	2011-F5-141-1	6	Malting	StabBC 50-7-6/Stab 113
TC6W-192	2011-F5-141-3	6	Malting	StabBC 50-7-6/Stab 113
TC6W-193	2011-F5-141-5	6	Malting	StabBC 50-7-6/Stab 113
TC6W-194	06OR-9	6	Malting	Stab 47/Kab 51-7
TC6W-195	06OR-10	6	Malting	Stab 113/Kab 50 - 21
TC6W-196	06OR-20	6	Malting	Stab 113/Kab 50-22
TC6W-197	06OR-22	6	Malting	Stab 47/Kab 51-20
TC6W-198	06OR-37	6	Malting	Stab 47/Kab 51-9
TC6W-199	06OR-38	6	Malting	Stab 47/Excel-1
TC6W-200	06OR-40	6	Malting	Stab 47/Kab 51-27
TC6W-201	06OR-41	6	Malting	Strider/88Ab 536,F1//88 Ab536
TC6W-202	06OR-42	6	Malting	Stab 7/Kab 41-1
TC6W-203	06OR-43	6	Malting	Stab 47/Kab 51-11
TC6W-204	06OR-44	6	Malting	Strider/88Ab 536,F1//88 Ab536
TC6W-205	06OR-45	6	Malting	Stab 47/Kab 51-17
TC6W-206	06OR-46	6	Malting	Stab 113/Kab 50-15
TC6W-207	06OR-47	6	Malting	Stab 7-1
TC6W-208	06OR-51	6	Malting	Stab47/Excel//Stab47
TC6W-209	06OR-52	6	Malting	Stab47/Excel//Stab47
TC6W-210	06OR-57	6	Malting	Kab51/Excel//Kab51
TC6W-211	06OR-58	6	Malting	Kab51/Excel//Stab47/Excel
TC6W-212	06OR-59	6	Malting	Kab51/Excel//Stab47/Excel
TC6W-213	06OR-62	6	Malting	Kold/88Ab536
TC6W-214	06OR-75	6	Malting	Stab47/Excel//Stab47
TC6W-215	06OR-76	6	Malting	Kab51/Legacy//Kab51
TC6W-216	06OR-78	6	Malting	Stab47/Excel//Stab47
TC6W-217	06OR-79	6	Malting	Kab51/Excel//Kab51
TC6W-218	06OR-87	6	Malting	Stab47/Excel//Stab47
TC6W-219	06OR-91	6	Malting	Stab47/Excel//Stab47
TC6W-220	06OR-95	6	Malting	Dicktoo

Table 17. TCAP NUE Entry List and Pedigrees

(2012-13 TCAP Nitrogen Use Efficiency Trial (High N))

Entry	Name	Type	Use	Parentage
TC6W-221	07OR-3	6	Malting	Bu 27/Stab 47(F1)/3/Stab 113/Stab 47- 49-2
TC6W-222	07OR-4	6	Malting	Bu 27/Stab 47(F1)/3/Stab 113/Stab 47- 49-4
TC6W-223	07OR-5	6	Malting	Bu 27/Stab 47(F1)/3/Stab 113/Stab 47- 49-4
TC6W-224	07OR-6	6	Malting	Bu 27/Stab 47(F1)/3/Stab 113/Stab 47- 49-4
TC6W-225	07OR-7	6	Malting	Bu 27/Stab 47(F1)/3/Stab 113/Stab 47- 49-4
TC6W-226	07OR-8	6	Malting	Bu 27/Stab 47(F1)/3/Stab 113/Stab 47- 49-4
TC6W-227	07OR-9	6	Malting	Bu 27/Stab 47(F1)/3/Stab 113/Stab 47- 49-4
TC6W-228	07OR-21	6	Malting	Stab47/Kab 51-20
TC6W-229	07OR-55	6	Malting	Stab113/kab50//Kab37-1 Stab113/Kab 50//Jari2 Stab113/Kab50//Kab65-3
TC6W-230	07OR-57	6	Malting	Stab113/kab50//Kab37-1 Stab113/Kab 50//Jari2 Stab113/Kab50//Kab65-3
TC6W-231	07OR-58	6	Malting	Stab113/kab50//Kab37-1 Stab113/Kab 50//Jari2 Stab113/Kab50//Kab65-3
TC6W-232	07OR-59	6	Malting	Stab113/kab50//Kab37-1 Stab113/Kab 50//Jari2 Stab113/Kab50//Kab65-3
TC6W-233	07OR-62	6	Malting	Stab113/kab50//Kab37-1 Stab113/Kab 50//Jari2 Stab113/Kab50//Kab65-3
TC6W-234	07OR-63	6	Malting	Stab113/kab50//Kab37-1 Stab113/Kab 50//Jari2 Stab113/Kab50//Kab65-3
TC6W-235	07OR-64	6	Malting	Stab113/kab50//Kab37-1 Stab113/Kab 50//Jari2 Stab113/Kab50//Kab65-3
TC6W-236	07OR-65	6	Malting	Stab113/kab50//Kab37-1 Stab113/Kab 50//Jari2 Stab113/Kab50//Kab65-3
TC6W-237	08OR-30	6	Malting	StabBC 42-4-2/Stab 7-1
TC6W-238	08OR-40	6	Malting	StabBC 42-4-2/3/K51/L//K51
TC6W-239	08OR-41	6	Malting	StabBC 42-4-2/3/K51/L//K51
TC6W-240	08OR-44	6	Malting	StabBC 42-4-2/3/K51/L//K51
TC6W-241	08OR-45	6	Malting	StabBC 42-4-2/3/K51/L//K51
TC6W-242	08OR-46	6	Malting	StabBC 42-4-2/3/K51/L//K51
TC6W-243	08OR-47	6	Malting	J2-13-12//S113/K47-5
TC6W-244	08OR-48	6	Malting	StabBC 50-7-3/Stab 113
TC6W-245	08OR-49	6	Malting	StabBC 50-7-3/Stab 113
TC6W-246	08OR-50	6	Malting	StabBC 50-7-3/Stab 113
TC6W-247	08OR-52	6	Malting	StabBC 50-7-3/Stab 113
TC6W-248	08OR-53	6	Malting	StabBC 50-7-3/Stab 113
TC6W-249	08OR-54	6	Malting	StabBC 50-7-3/Stab 113
TC6W-250	08OR-56	6	Malting	StabBC 50-7-1//S113/K47-4
TC6W-251	08OR-58	6	Malting	Strider/3/S113/L//S113
TC6W-252	08OR-69	6	Malting	S113/L//S113/3/Kab 47
TC6W-253	08OR-73	6	Malting	K51/E//S113/3/J2-17-2
TC6W-254	08OR-79	6	Malting	S113/L//S113/3/Stab 7/Kab 43-1
TC6W-255	08OR-80	6	Malting	S113/L//S113/3/Stab 7/Kab 43-1
TC6W-256	08OR-81	6	Malting	S113/L//S113/3/Stab 47/Kab 51-3
TC6W-257	08OR-96	6	Malting	S113/L//S113/3/Doyce - Naked
TC6W-258	2011-Short-8	6	Malting	Bu 27/Stab 47(F1)/3/Stab 113/Stab 47- 37
TC6W-259	2011-Short-9	6	Malting	Bu 27/Stab 47(F1)/3/Stab 113/Stab 47- 37
TC6W-260	2011-Short-11	6	Malting	Bu 27/Stab 47(F1)/3/Stab 113/Stab 47- 37
TC6W-261	2011-Short-12	6	Malting	Bu 27/Stab 47(F1)/3/Stab 113/Stab 47- 37
TC6W-262	2011-Short-13	6	Malting	Bu 27/Stab 47(F1)/3/Stab 113/Stab 47- 37
TC6W-263	2011-Short-14	6	Malting	Bu 27/Stab 47(F1)/3/Stab 113/Stab 47- 37
TC6W-264	2011-Short-15	6	Malting	Bu 27/Stab 47(F1)/3/Stab 113/Stab 47- 37

Table 17. TCAP NUE Entry List and Pedigrees

(2012-13 TCAP Nitrogen Use Efficiency Trial (High N))

Entry	Name	Type	Use	Parentage
TC6W-265	2011-Short-16	6	Malting	Bu 27/Stab 47(F1)/3/Stab 113/Stab 47- 37
TC6W-266	MW10S4116-001	6	Malting	TAMBAR 501 / *2 M115
TC6W-267	MW10S4116-002	6	Malting	TAMBAR 501 / *2 M115
TC6W-268	MW10S4116-003	6	Malting	TAMBAR 501 / *2 M115
TC6W-269	MW10S4116-004	6	Malting	TAMBAR 501 / *2 M115
TC6W-270	MW10S4116-005	6	Malting	TAMBAR 501 / *2 M115
TC6W-271	MW10S4118-001	6	Malting	NB99845 / *2 M115
TC6W-272	MW10S4118-002	6	Malting	NB99845 / *2 M115
TC6W-273	MW10S4118-003	6	Malting	NB99845 / *2 M115
TC6W-274	MW10S4118-004	6	Malting	NB99845 / *2 M115
TC6W-275	MW10S4118-005	6	Malting	NB99845 / *2 M115
TC6W-276	MW10S4118-006	6	Malting	NB99845 / *2 M115
TC6W-277	MW10S4120-001	6	Malting	88ab536 / *2 Rasmusson
TC6W-278	MW10S4120-002	6	Malting	88ab536 / *2 Rasmusson
TC6W-279	MW10S4120-003	6	Malting	88ab536 / *2 Rasmusson
TC6W-280	MW10S4120-004	6	Malting	88ab536 / *2 Rasmusson
TC6W-281	MW10S4120-005	6	Malting	88ab536 / *2 Rasmusson
TC6W-282	MW10S4120-006	6	Malting	88ab536 / *2 Rasmusson
TC6W-283	MW10S4120-007	6	Malting	88ab536 / *2 Rasmusson
TC6W-284	MW10S4120-008	6	Malting	88ab536 / *2 Rasmusson
TC6W-285	MW10S4122-001	6	Malting	88ab536 / *2 M115
TC6W-286	MW10S4122-002	6	Malting	88ab536 / *2 M115
TC6W-287	MW10S4122-003	6	Malting	88ab536 / *2 M115
TC6W-288	MW10S4122-004	6	Malting	88ab536 / *2 M115
TC6W-289	MW10S4122-005	6	Malting	88ab536 / *2 M115
TC6W-290	MW10S4122-006	6	Malting	88ab536 / *2 M115
TC6W-291	MW10S4122-007	6	Malting	88ab536 / *2 M115
TC6W-292	MW10S4122-008	6	Malting	88ab536 / *2 M115
TC6W-293	MW09S4076-001	6	Malting	TAMBAR 501 / FEG188-02 (MW08-03)
TC6W-294	MW09S4076-002	6	Malting	TAMBAR 501 / FEG188-02 (MW08-04)
TC6W-295	MW09S4078-001	6	Malting	NB99845 / M115 (MW08-07)
TC6W-296	MW09S4078-002	6	Malting	NB99845 / M115 (MW08-08)
TC6W-297	MW09S4080-001	6	Malting	88ab536 / Rasmusson (MW08-10)
TC6W-298	MW09S4082-001	6	Malting	OR72 / FEG183-28 (MW08-11)
TC6W-299	MW09S4085-001	6	Malting	OR76 / M115 (MW08-12)
TC6W-300	MW09S4086-001	6	Malting	OR76 / Quest (MW08-15)
Check1	ALBA	6	Feed	Strider/Orca
Check2	MAJA	6	Malting	Strider/88Ab536
Check3	STRIDER	6	Feed	OR1860164/Steptoe

Table 18. TCAP NUE MQ for Corvallis, OR 2012-13

(2012-13 TCAP Nitrogen Use Efficiency Trial (High N))

Entry	Name	Rowed	on 6/64" (%)	Malt Extract (%)	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (°ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)
TC6W-001	Maja	6	87.8	81.5	1	9.4	4.08	46.5	126	83.4	191	211
TC6W-002	OR91	6	96.5	82.9	1	10.1	4.88	51.3	109	108.8	103	254
TC6W-003	OR92	6	94.0	82.7	1	9.5	4.83	52.4	109	108.2	130	250
TC6W-004	OR97	6	97.5	82.8	1	9.5	4.83	52.4	116	110.7	111	262
TC6W-005	OR98	6	96.4	83.1	1	9.5	4.52	50.8	99	107.8	114	250
TC6W-006	OR910	6	95.8	82.9	1	10.1	4.86	52.5	115	109.5	157	260
TC6W-007	OR915	6	95.6	81.6	1	9.0	3.91	45.5	105	88.8	269	206
TC6W-008	OR101	6	97.2	81.9	2	9.8	4.01	42.8	129	78.3	214	197
TC6W-009	OR102	6	95.4	78.8	1	9.7	3.52	37.1	126	70.8	653	173
TC6W-010	OR103	6	98.2	82.0	1	9.8	3.60	39.9	114	82.2	477	185
TC6W-011	OR104	6	97.9	81.6	1	9.7	3.56	39.3	131	76.5	272	181
TC6W-012	OR105	6	98.4	81.3	1	9.6	3.59	40.4	105	80.2	185	184
TC6W-013	OR106	6	97.8	80.2	1	9.5	3.61	40.2	108	72.0	459	185
TC6W-014	OR107	6	96.4	80.9	1	10.2	3.60	39.0	107	80.2	349	181
TC6W-015	OR108	6	94.5	80.2	1	10.1	3.61	38.2	108	76.1	388	178
TC6W-016	OR109	6	97.1	81.8	1	9.8	4.19	44.8	100	88.7	254	220
TC6W-017	OR110	6	96.4	79.7	1	9.2	3.49	39.6	96	60.5	337	162
TC6W-018	OR111	6	98.4	79.3	1	9.9	3.79	40.0	89	61.8	705	177
TC6W-019	OR112	6	97.6	81.4	1	9.0	3.40	42.1	103	85.1	201	177
TC6W-020	OR113	6	96.8	82.1	1	9.9	3.75	42.1	127	91.5	187	192
TC6W-021	OR114	6	98.3	80.5	1	9.6	3.54	41.2	96	75.0	365	183
TC6W-022	Strider	6	93.8	78.8	3	10.1	3.37	35.3	60	60.3	*872	149
TC6W-023	Eight-Twelve	6	82.4	78.1	1	9.1	3.82	45.4	92	59.1	447	194
TC6W-024	OBADV11-2	6	98.0	80.4	1	9.6	3.57	40.5	80	62.6	499	167
TC6W-025	OBADV11-6	6	98.3	77.7	3	9.2	2.84	33.6	72	35.7	635	119
TC6W-026	OBADV11-13	6	98.9	77.6	1	11.2	4.18	37.7	122	54.8	379	189
TC6W-027	OBADV11-14	6	97.5	79.1	1	10.2	3.47	35.3	73	48.0	596	133
TC6W-028	OBADV11-17	6	98.4	78.1	3	10.7	3.69	36.6	69	42.0	360	142

Table 18. TCAP NUE MQ for Corvallis, OR 2012-13

(2012-13 TCAP Nitrogen Use Efficiency Trial (High N))

Entry	Name	Rowed	on 6/64" (%)	Malt Extract (%)	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (°ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)
TC6W-029	OBADV11-26	6	99.5	77.5	1	10.8	3.34	33.5	72	39.7	370	119
TC6W-030	OBADV11-29	6	97.0	76.8	2	10.7	3.11	30.8	78	37.0	635	108
TC6W-031	OBADV11-30	6	96.4	76.1	1	9.8	2.98	31.1	104	43.3	268	108
TC6W-032	OBADV11-31	6	98.2	78.3	3	10.4	3.13	32.1	87	37.9	261	114
TC6W-033	PO71DH-84	6	97.0	80.0	1	10.1	3.65	37.5	104	60.7	211	149
TC6W-034	PO71DH-87	6	99.5	82.5	3	10.2	3.62	35.4	103	64.9	60	146
TC6W-035	PO71DH-94	6	99.1	79.4	1	12.6	4.15	33.4	99	64.7	282	171
TC6W-036	PO71DH-104	6	96.0	79.1	2	11.0	4.00	38.7	95	57.6	433	167
TC6W-037	PO71DH-111	6	94.6	80.0	1	9.8	3.91	42.3	95	78.9	319	176
TC6W-038	PYT211-6	6	98.2	80.7	1	11.3	4.89	47.2	109	90.8	58	231
TC6W-039	PYT211-10	6	98.0	81.9	1	9.8	3.85	42.6	116	79.8	91	181
TC6W-040	2011-F5-2-1	6	93.8	82.1	1	9.5	4.35	48.8	57	89.7	83	201
TC6W-041	2011-F5-3-1	6	96.3	80.2	1	9.4	3.79	43.0	83	66.8	221	159
TC6W-042	2011-F5-3-2	6	97.2	79.9	1	9.9	3.79	42.1	81	69.3	236	157
TC6W-043	2011-F5-4-1	6	96.9	79.7	1	10.3	3.87	41.1	103	80.2	259	163
TC6W-044	2011-F5-4-2	6	97.3	80.6	1	9.5	3.55	38.7	92	78.7	218	151
TC6W-045	2011-F5-5-1	6	95.8	80.4	1	9.4	3.50	40.8	82	70.7	164	143
TC6W-046	2011-F5-7-1	6	96.8	80.6	1	9.4	3.29	37.9	81	69.2	374	129
TC6W-047	2011-F5-7-3	6	98.3	80.8	1	9.2	3.37	38.1	102	73.2	363	131
TC6W-048	2011-F5-7-4	6	97.3	80.3	1	8.6	3.08	37.8	73	57.3	316	117
TC6W-049	2011-F5-8-2	6	95.9	79.3	2	9.3	2.95	34.1	96	52.8	177	122
TC6W-050	2011-F5-8-3	6	97.1	80.0	1	9.9	3.34	35.7	102	63.9	181	144
TC6W-051	2011-F5-9-2	6	95.9	80.8	1	10.3	4.08	43.0	79	78.4	123	171
TC6W-052	2011-F5-9-3	6	94.8	80.0	1	10.8	4.20	41.6	96	74.0	142	173
TC6W-053	2011-F5-16-1	6	96.8	80.0	1	9.2	2.98	35.6	68	56.6	390	108
TC6W-054	2011-F5-16-2	6	98.2	80.7	1	9.0	3.14	35.8	81	57.7	464	115
TC6W-055	2011-F5-16-3	6	96.3	80.7	2	8.8	3.09	37.7	83	70.3	469	111
TC6W-056	2011-F5-16-4	6	97.2	81.5	1	8.7	3.25	38.3	80	55.6	154	120

Table 18. TCAP NUE MQ for Corvallis, OR 2012-13

(2012-13 TCAP Nitrogen Use Efficiency Trial (High N))

Entry	Name	Rowed	on 6/64" (%)	Malt Extract (%)	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (°ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)
TC6W-057	2011-F5-17-1	6	93.3	80.4	2	9.7	3.54	38.1	89	69.3	295	139
TC6W-058	2011-F5-22-1	6	94.2	79.4	1	9.9	3.70	40.9	107	83.7	235	147
TC6W-059	2011-F5-22-3	6	97.4	80.6	1	9.7	3.80	41.6	84	81.6	198	158
TC6W-060	2011-F5-23-1	6	97.5	81.3	1	9.2	3.60	42.3	93	77.1	123	146
TC6W-061	2011-F5-24-1	6	93.7	77.8	3	9.1	3.08	36.7	80	49.8	652	106
TC6W-062	2011-F5-25-1	6	97.5	78.8	2	9.2	3.12	37.0	80	52.7	609	104
TC6W-063	2011-F5-25-2	6	97.7	79.6	1	9.6	3.50	38.7	96	66.2	505	128
TC6W-064	2011-F5-27-1	6	97.0	80.0	1	9.5	3.58	39.9	83	61.3	433	135
TC6W-065	2011-F5-27-2	6	96.2	79.8	1	8.8	3.28	39.2	70	50.0	615	113
TC6W-066	2011-F5-27-3	6	96.7	79.8	1	9.0	3.33	39.7	80	53.9	538	121
TC6W-067	2011-F5-29-1	6	97.4	80.9	1	9.4	3.26	36.0	102	57.6	257	135
TC6W-068	2011-F5-32-1	6	97.1	80.3	1	9.1	3.55	41.2	95	84.6	28	142
TC6W-069	2011-F5-35-1	6	97.7	79.0	3	9.7	3.32	35.9	90	62.5	241	117
TC6W-070	2011-F5-35-2	6	98.5	79.0	3	9.7	3.41	36.2	93	62.7	323	117
TC6W-071	2011-F5-36-1	6	97.5	*74.9	3	11.3	3.27	31.3	93	42.5	*718	110
TC6W-072	2011-F5-36-2	6	98.8	76.9	3	10.4	3.51	36.1	104	58.8	455	132
TC6W-073	2011-F5-36-3	6	97.6	77.2	3	10.5	3.66	38.2	100	60.6	534	139
TC6W-074	2011-F5-37-1	6	98.7	76.7	2	12.1	4.09	34.5	110	62.3	701	153
TC6W-075	2011-F5-37-2	6	98.4	77.4	2	12.1	4.05	35.4	113	68.4	626	158
TC6W-076	2011-F5-37-3	6	98.6	77.5	3	10.3	3.62	37.7	104	63.6	549	142
TC6W-077	2011-F5-37-4	6	98.6	*75.8	3	11.5	3.31	31.0	93	49.0	*821	118
TC6W-078	2011-F5-37-5	6	98.2	76.9	3	10.4	3.42	34.0	98	51.1	*765	126
TC6W-079	2011-F5-47-1	6	95.9	81.0	1	8.7	3.39	40.7	86	71.4	205	136
TC6W-080	2011-F5-47-2	6	92.2	80.8	1	9.7	3.66	41.7	102	74.7	408	144
TC6W-081	2011-F5-47-3	6	95.6	79.2	1	9.0	3.17	37.5	97	64.2	443	118
TC6W-082	OR76	6	97.5	80.4	1	10.2	3.95	40.7	90	75.4	175	171
TC6W-083	OR77	6	98.1	79.4	1	9.5	3.29	37.3	93	61.4	281	123
TC6W-084	OR813	6	95.8	80.4	1	10.6	4.26	41.4	89	81.6	161	186

Table 18. TCAP NUE MQ for Corvallis, OR 2012-13

(2012-13 TCAP Nitrogen Use Efficiency Trial (High N))

Entry	Name	Rowed	on 6/64" (%)	Malt Extract (%)	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (°ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)
TC6W-085	OR815	6	97.1	81.4	1	9.9	3.79	39.8	100	76.4	259	154
TC6W-086	OR816	6	97.2	81.5	1	9.3	3.59	41.7	113	72.1	204	154
TC6W-087	OR818	6	95.1	81.6	1	10.0	4.83	49.4	119	97.2	134	234
TC6W-088	2011-F5-48-1	6	97.3	80.0	1	9.2	3.39	38.3	88	71.5	290	137
TC6W-089	2011-F5-49-1	6	97.7	78.5	2	8.8	2.90	35.0	71	44.8	*791	94
TC6W-090	2011-F5-50-1	6	98.4	80.1	1	9.6	3.24	35.4	88	54.2	436	127
TC6W-091	2011-F5-52-1	6	98.2	80.6	1	9.6	3.42	39.2	102	67.7	123	149
TC6W-092	2011-F5-52-2	6	98.6	79.9	1	10.3	3.57	35.6	105	61.4	391	149
TC6W-093	2011-F5-52-3	6	98.6	81.3	1	9.8	3.61	37.7	115	70.0	152	152
TC6W-094	2011-F5-55-1	6	98.9	78.5	2	10.5	3.59	37.6	120	69.2	308	143
TC6W-095	2011-F5-55-2	6	97.8	77.6	3	11.0	3.61	34.8	116	64.0	424	139
TC6W-096	2011-F5-56-1	6	98.5	80.2	1	9.8	3.41	35.1	97	68.4	191	125
TC6W-097	2011-F5-56-3	6	98.9	80.6	1	9.8	3.60	39.8	97	74.2	104	138
TC6W-098	2011-F5-57-2	6	98.4	80.7	1	9.6	3.27	36.6	91	63.7	191	119
TC6W-099	2011-F5-58-1	6	98.8	79.6	1	10.3	3.55	36.5	101	66.5	188	134
TC6W-100	2011-F5-59-1	6	97.9	79.5	1	9.4	3.31	35.5	103	63.5	235	118
TC6W-101	2011-F5-59-2	6	97.2	78.9	1	9.2	3.26	35.4	96	60.7	328	116
TC6W-102	2011-F5-60-1	6	97.7	81.1	1	8.4	3.34	40.7	95	65.2	134	132
TC6W-103	2011-F5-60-2	6	98.2	80.6	1	9.4	3.55	38.4	105	68.7	148	137
TC6W-104	2011-F5-63-1	6	88.9	79.5	1	9.4	3.45	38.9	85	62.7	286	137
TC6W-105	2011-F5-63-2	6	94.9	80.3	1	9.5	3.64	38.5	86	69.6	149	146
TC6W-106	2011-F5-64-1	6	95.6	79.7	1	9.9	3.46	38.5	109	72.2	304	138
TC6W-107	2011-F5-66-2	6	96.3	80.3	1	9.8	3.99	42.3	108	77.7	215	172
TC6W-108	2011-F5-66-3	6	93.7	81.2	1	9.2	3.89	46.6	91	79.8	121	167
TC6W-109	2011-F5-72-1	6	97.9	77.2	3	11.0	3.57	33.7	96	60.3	381	129
TC6W-110	2011-F5-72-2	6	98.4	78.1	2	10.7	3.54	35.6	96	59.5	326	131
TC6W-111	2011-F5-72-3	6	99.0	77.2	3	11.2	3.55	33.8	93	58.8	368	127
TC6W-112	2011-F5-72-4	6	97.9	77.3	2	10.1	3.14	32.1	93	49.7	421	108

Table 18. TCAP NUE MQ for Corvallis, OR 2012-13

(2012-13 TCAP Nitrogen Use Efficiency Trial (High N))

Entry	Name	Rowed	on 6/64" (%)	Malt Extract (%)	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (°ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)
TC6W-113	2011-F5-75-1	6	97.6	79.9	1	9.7	3.54	38.4	102	70.0	287	137
TC6W-114	2011-F5-76-1	6	97.8	80.0	1	9.3	3.40	38.2	102	69.4	183	128
TC6W-115	2011-F5-76-2	6	96.7	78.8	1	9.9	3.48	36.1	105	61.7	447	135
TC6W-116	2011-F5-76-3	6	97.0	79.5	1	9.3	3.46	39.5	97	60.0	421	130
TC6W-117	2011-F5-76-4	6	98.0	78.4	1	9.9	3.32	33.8	110	62.5	371	120
TC6W-118	2011-F5-79-1	6	97.7	80.5	1	9.3	3.47	41.0	95	60.6	130	131
TC6W-119	2011-F5-83-1	6	97.5	80.7	1	9.1	3.31	38.5	85	60.3	163	125
TC6W-120	2011-F5-84-1	6	97.2	79.7	1	9.8	3.46	36.8	97	58.7	303	134
TC6W-121	2011-F5-84-2	6	98.1	80.0	1	9.5	3.51	37.4	99	61.0	294	140
TC6W-122	2011-F5-85-1	6	98.1	80.3	1	9.3	3.35	39.1	91	59.4	170	125
TC6W-123	2011-F5-85-2	6	98.0	79.8	1	9.8	3.37	35.2	104	59.5	178	123
TC6W-124	2011-F5-86-1	6	98.0	80.2	1	10.0	3.50	38.0	103	62.7	116	133
TC6W-125	2011-F5-86-2	6	97.3	80.3	1	9.2	3.46	40.0	95	63.4	260	136
TC6W-126	2011-F5-87-1	6	98.6	80.0	1	10.1	3.42	37.0	94	61.0	325	124
TC6W-127	2011-F5-88-1	6	98.2	80.9	1	9.4	3.58	41.2	95	65.8	227	139
TC6W-128	2011-F5-88-2	6	97.8	79.6	1	10.1	3.56	37.6	99	62.6	321	140
TC6W-129	2011-F5-88-3	6	95.4	80.0	1	9.9	3.75	40.6	114	64.4	293	150
TC6W-130	2011-F5-90-4	6	95.9	81.3	1	9.9	3.89	42.1	107	73.3	245	165
TC6W-131	2011-F5-90-5	6	94.2	80.3	1	9.9	3.75	40.2	98	69.2	329	164
TC6W-132	2011-F5-91-1	6	90.1	81.1	3	8.8	3.52	43.0	90	57.9	437	149
TC6W-133	2011-F5-91-2	6	91.7	81.2	1	9.6	3.66	39.8	111	59.0	517	154
TC6W-134	2011-F5-93-1	6	98.9	79.3	2	9.9	3.65	36.8	93	61.6	399	159
TC6W-135	2011-F5-94-1	6	98.6	78.7	1	11.0	3.87	36.9	104	68.9	362	163
TC6W-136	2011-F5-95-1	6	94.7	80.3	1	9.0	3.36	37.8	77	58.7	306	142
TC6W-137	2011-F5-96-1	6	*78.5	79.4	1	9.0	3.16	36.6	78	53.5	350	139
TC6W-138	2011-F5-96-2	6	95.0	79.6	1	10.3	3.21	33.1	83	51.6	540	137
TC6W-139	2011-F5-96-3	6	91.7	79.7	2	8.9	3.07	35.5	83	48.7	488	124
TC6W-140	2011-F5-96-4	6	90.7	79.5	1	9.7	3.29	34.4	93	51.5	491	140

Table 18. TCAP NUE MQ for Corvallis, OR 2012-13

(2012-13 TCAP Nitrogen Use Efficiency Trial (High N))

Entry	Name	Rowed	on 6/64" (%)	Malt Extract (%)	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (°ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)
TC6W-141	2011-F5-97-1	6	97.4	78.6	1	9.8	3.78	40.5	97	65.4	378	164
TC6W-142	2011-F5-99-1	6	97.5	79.1	1	9.8	3.68	38.3	91	63.8	516	157
TC6W-143	2011-F5-105-1	6	96.3	80.2	1	8.6	3.45	41.9	86	66.6	190	147
TC6W-144	2011-F5-105-2	6	96.4	80.6	1	8.8	3.47	43.2	89	65.9	162	143
TC6W-145	2011-F5-105-3	6	96.8	80.6	1	9.0	3.52	40.8	92	61.5	286	143
TC6W-146	2011-F5-105-4	6	95.8	80.0	1	9.4	3.43	39.6	88	65.4	285	138
TC6W-147	2011-F5-106-1	6	97.8	81.0	1	9.4	3.62	40.9	98	69.4	281	157
TC6W-148	2011-F5-106-2	6	97.1	81.6	1	9.3	3.63	42.3	108	67.1	316	155
TC6W-149	2011-F5-107-2	6	98.6	81.0	1	9.4	3.33	35.6	98	61.8	435	131
TC6W-150	2011-F5-108-1	6	97.2	79.7	2	9.8	3.30	36.6	101	56.9	450	125
TC6W-151	2011-F5-109-1	6	97.8	80.9	1	9.4	3.35	36.8	98	59.9	308	131
TC6W-152	2011-F5-109-2	6	97.9	79.9	1	9.8	3.38	37.0	102	63.0	360	133
TC6W-153	2011-F5-109-3	6	97.9	80.6	1	9.5	3.41	37.0	91	66.0	302	138
TC6W-154	2011-F5-110-1	6	97.6	81.1	1	9.6	3.62	38.9	93	66.8	278	152
TC6W-155	2011-F5-112-1	6	97.7	78.7	1	9.7	3.37	35.7	96	64.7	320	136
TC6W-156	2011-F5-112-2	6	96.8	79.0	1	9.8	3.40	37.6	99	62.7	418	133
TC6W-157	2011-F5-112-3	6	97.5	78.5	2	9.5	3.25	34.5	87	55.0	398	129
TC6W-158	2011-F5-113-1	6	95.8	80.9	1	9.7	3.84	41.2	111	79.9	172	162
TC6W-159	2011-F5-113-2	6	96.0	80.5	1	9.8	3.78	40.4	111	77.5	155	156
TC6W-160	2011-F5-113-3	6	96.6	81.2	1	9.1	3.64	40.7	101	77.2	110	154
TC6W-161	2011-F5-115-1	6	98.3	80.3	1	10.0	3.55	36.8	81	66.8	319	144
TC6W-162	2011-F5-118-1	6	97.6	80.3	1	8.9	3.43	40.0	80	62.6	229	140
TC6W-163	2011-F5-119-1	6	96.4	79.4	1	9.6	3.38	35.4	99	60.7	312	135
TC6W-164	2011-F5-119-2	6	98.0	79.9	1	9.7	3.44	36.5	97	58.1	322	132
TC6W-165	2011-F5-120-1	6	96.9	78.5	1	9.0	3.20	37.3	93	58.5	354	125
TC6W-166	2011-F5-120-2	6	98.6	78.9	1	9.7	3.28	34.5	96	60.9	288	127
TC6W-167	2011-F5-120-3	6	98.2	79.5	1	9.6	3.26	35.2	89	59.0	383	128
TC6W-168	2011-F5-121-1	6	98.3	80.3	1	8.9	3.27	37.1	88	64.3	275	132

Table 18. TCAP NUE MQ for Corvallis, OR 2012-13

(2012-13 TCAP Nitrogen Use Efficiency Trial (High N))

Entry	Name	Rowed	on 6/64" (%)	Malt Extract (%)	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (°ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)
TC6W-169	2011-F5-121-2	6	97.3	79.3	1	9.7	3.34	35.5	95	58.3	411	128
TC6W-170	2011-F5-121-3	6	98.0	79.4	1	9.5	3.13	33.2	94	56.1	338	122
TC6W-171	2011-F5-121-4	6	96.8	79.3	1	9.4	3.26	36.1	96	58.2	474	127
TC6W-172	2011-F5-121-5	6	97.5	79.4	1	9.6	3.26	36.5	101	58.2	364	130
TC6W-173	2011-F5-122-1	6	97.3	79.7	1	9.3	3.23	35.1	89	56.8	289	125
TC6W-174	2011-F5-123-1	6	97.8	82.2	1	9.5	3.60	41.4	105	66.5	227	148
TC6W-175	2011-F5-124-1	6	97.1	79.1	1	9.9	3.21	34.4	88	55.3	377	121
TC6W-176	2011-F5-126-1	6	98.2	80.2	1	9.6	3.53	39.7	89	63.5	308	146
TC6W-177	2011-F5-126-2	6	97.3	79.5	1	9.9	3.45	38.2	90	61.8	341	139
TC6W-178	2011-F5-129-1	6	96.4	80.4	1	10.1	3.83	41.0	94	63.4	578	170
TC6W-179	2011-F5-131-1	6	97.2	79.7	1	9.8	3.61	39.0	74	61.7	393	155
TC6W-180	2011-F5-132-1	6	96.7	80.6	1	8.8	3.46	43.5	87	68.9	258	149
TC6W-181	2011-F5-134-1	6	97.5	78.8	1	10.1	3.40	35.2	98	58.6	417	137
TC6W-182	2011-F5-134-2	6	98.4	80.1	1	9.8	3.37	35.2	106	60.9	389	138
TC6W-183	2011-F5-134-3	6	98.3	80.2	1	10.0	3.56	38.6	101	62.0	406	149
TC6W-184	2011-F5-135-1	6	96.1	78.0	1	9.6	3.52	40.4	88	63.3	325	144
TC6W-185	2011-F5-135-2	6	98.4	78.1	1	10.5	3.75	39.0	105	65.7	474	153
TC6W-186	2011-F5-135-3	6	97.8	78.9	1	9.3	3.48	40.9	97	65.4	255	148
TC6W-187	2011-F5-135-4	6	98.3	79.1	1	9.5	3.57	39.5	103	58.7	283	147
TC6W-188	2011-F5-136-1	6	98.1	79.0	1	10.0	3.76	39.4	109	74.6	263	166
TC6W-189	2011-F5-140-1	6	96.5	81.4	1	9.3	3.47	39.4	116	64.6	322	162
TC6W-190	2011-F5-140-2	6	96.0	81.0	1	9.1	3.29	38.2	108	59.3	236	147
TC6W-191	2011-F5-141-1	6	95.8	80.9	1	10.1	3.91	39.5	120	69.0	230	189
TC6W-192	2011-F5-141-3	6	96.6	81.8	1	9.4	3.63	41.7	105	71.9	152	174
TC6W-193	2011-F5-141-5	6	97.4	80.9	1	9.3	3.78	40.6	107	73.6	154	184
TC6W-194	06OR-9	6	97.6	81.6	1	9.7	3.57	38.9	107	76.9	160	152
TC6W-195	06OR-10	6	94.1	81.5	1	9.4	3.81	41.4	117	72.6	177	173
TC6W-196	06OR-20	6	88.6	81.0	1	10.0	4.07	42.8	153	77.3	242	193

Table 18. TCAP NUE MQ for Corvallis, OR 2012-13

(2012-13 TCAP Nitrogen Use Efficiency Trial (High N))

Entry	Name	Rowed	on 6/64" (%)	Malt Extract (%)	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (°ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)
TC6W-197	06OR-22	6	95.8	78.4	1	11.0	4.05	39.6	117	73.3	175	181
TC6W-198	06OR-37	6	95.3	80.7	1	8.9	3.43	39.5	111	69.1	291	151
TC6W-199	06OR-38	6	96.4	78.7	1	12.0	4.55	40.3	139	106.1	151	208
TC6W-200	06OR-40	6	94.4	80.1	1	10.1	3.96	40.8	152	78.5	174	184
TC6W-201	06OR-41	6	97.8	80.0	1	11.3	4.68	43.0	149	88.8	125	237
TC6W-202	06OR-42	6	96.9	79.9	1	10.5	4.55	45.5	127	92.1	71	230
TC6W-203	06OR-43	6	98.1	78.0	1	12.4	4.25	35.9	105	70.6	298	187
TC6W-204	06OR-44	6	82.9	78.5	1	10.6	4.03	40.0	141	79.8	353	176
TC6W-205	06OR-45	6	95.4	80.4	1	9.7	3.95	44.0	118	97.1	155	197
TC6W-206	06OR-46	6	*68.3	80.7	1	10.4	4.15	43.3	146	99.7	79	208
TC6W-207	06OR-47	6	93.5	83.3	1	9.1	3.90	44.6	95	99.6	166	181
TC6W-208	06OR-51	6	96.4	80.8	1	10.6	4.38	44.5	133	86.8	121	196
TC6W-209	06OR-52	6	91.6	79.2	1	10.9	4.42	43.4	117	90.3	141	207
TC6W-210	06OR-57	6	97.4	79.8	1	11.0	4.23	41.7	140	84.9	284	198
TC6W-211	06OR-58	6	93.3	79.6	1	10.8	4.20	41.0	94	64.1	227	196
TC6W-212	06OR-59	6	96.6	79.7	2	11.2	4.14	40.7	94	54.7	182	191
TC6W-213	06OR-62	6	96.0	80.9	1	10.1	4.10	43.9	125	78.2	126	198
TC6W-214	06OR-75	6	89.6	80.1	1	9.4	4.26	49.1	104	86.8	137	201
TC6W-215	06OR-76	6	95.6	81.9	1	9.5	3.89	43.9	124	83.9	163	181
TC6W-216	06OR-78	6	90.7	79.2	1	10.6	4.28	43.1	128	86.4	85	211
TC6W-217	06OR-79	6	96.8	81.5	1	11.0	4.68	46.3	136	81.5	132	228
TC6W-218	06OR-87	6	84.6	78.1	2	11.2	3.80	36.4	109	62.9	218	166
TC6W-219	06OR-91	6	91.9	79.4	1	10.0	4.03	42.6	118	75.5	71	184
TC6W-220	06OR-95	6	95.6	78.2	2	9.5	3.06	35.8	95	38.9	536	118
TC6W-221	07OR-3	6	91.1	79.8	1	9.9	4.65	47.9	119	104.8	90	236
TC6W-222	07OR-4	6	93.4	82.4	1	9.5	4.49	52.5	128	*116.1	79	226
TC6W-223	07OR-5	6	96.8	82.5	1	9.8	4.70	52.7	120	*122	51	243
TC6W-224	07OR-6	6	91.5	81.9	1	9.8	4.70	51.1	127	107.1	92	237

Table 18. TCAP NUE MQ for Corvallis, OR 2012-13

(2012-13 TCAP Nitrogen Use Efficiency Trial (High N))

Entry	Name	Rowed	on 6/64" (%)	Malt Extract (%)	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (°ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)
TC6W-225	07OR-7	6	95.9	82.2	1	9.8	5.06	*54.7	127	112.8	66	269
TC6W-226	07OR-8	6	93.3	82.4	1	9.8	4.61	49.4	119	102.1	120	230
TC6W-227	07OR-9	6	95.6	82.6	1	9.4	4.60	51.7	113	100.4	120	230
TC6W-228	07OR-21	6	88.7	81.5	1	9.4	4.02	43.7	130	85.1	157	196
TC6W-229	07OR-55	6	94.2	81.5	1	9.6	3.65	38.5	131	72.2	151	155
TC6W-230	07OR-57	6	96.4	82.0	1	9.5	3.76	43.0	114	76.0	164	168
TC6W-231	07OR-58	6	97.1	81.5	1	9.3	3.66	42.0	107	69.5	166	161
TC6W-232	07OR-59	6	95.9	82.5	1	8.5	3.59	46.4	96	72.2	180	159
TC6W-233	07OR-62	6	90.7	82.0	1	10.7	4.25	42.9	163	100.7	111	209
TC6W-234	07OR-63	6	93.4	81.1	1	10.6	3.79	38.0	128	76.7	271	157
TC6W-235	07OR-64	6	*80.6	81.8	1	9.4	4.05	45.2	165	*117.4	61	191
TC6W-236	07OR-65	6	96.2	82.8	1	9.6	3.91	45.4	126	73.5	192	174
TC6W-237	08OR-30	6	97.9	81.1	1	8.8	3.32	40.5	84	65.9	170	132
TC6W-238	08OR-40	6	97.8	78.8	1	9.6	3.48	40.1	96	65.9	360	146
TC6W-239	08OR-41	6	99.4	82.6	1	9.2	3.54	40.2	99	81.2	213	161
TC6W-240	08OR-44	6	98.3	81.9	1	9.2	3.53	40.6	94	68.0	421	161
TC6W-241	08OR-45	6	99.2	82.1	1	9.6	3.42	38.2	85	62.1	275	157
TC6W-242	08OR-46	6	97.1	82.7	1	9.3	3.55	42.0	80	73.7	122	171
TC6W-243	08OR-47	6	97.6	81.6	1	9.7	3.47	39.4	107	69.0	214	164
TC6W-244	08OR-48	6	98.5	81.1	1	9.6	3.48	39.7	122	68.0	145	160
TC6W-245	08OR-49	6	98.5	81.1	1	9.1	3.24	37.9	84	60.2	259	150
TC6W-246	08OR-50	6	98.3	78.9	1	9.7	3.41	38.4	109	73.9	139	157
TC6W-247	08OR-52	6	96.0	80.1	1	10.0	3.66	39.4	129	69.6	274	171
TC6W-248	08OR-53	6	98.6	81.8	1	8.6	3.33	40.3	82	64.1	135	158
TC6W-249	08OR-54	6	98.8	80.8	1	9.0	3.37	37.7	88	65.9	241	161
TC6W-250	08OR-56	6	99.3	81.2	1	11.0	4.46	44.4	120	73.4	96	217
TC6W-251	08OR-58	6	98.8	80.7	1	10.6	3.85	38.2	137	67.2	336	175
TC6W-252	08OR-69	6	94.0	78.9	1	10.6	4.44	43.8	105	78.8	50	221

Table 18. TCAP NUE MQ for Corvallis, OR 2012-13

(2012-13 TCAP Nitrogen Use Efficiency Trial (High N))

Entry	Name	Rowed	on 6/64" (%)	Malt Extract (%)	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (°ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)
TC6W-253	08OR-73	6	95.2	82.2	1	9.3	4.09	47.3	115	97.8	89	216
TC6W-254	08OR-79	6	96.4	81.7	1	10.9	4.60	46.0	121	92.1	59	250
TC6W-255	08OR-80	6	84.2	80.9	1	10.2	4.27	44.1	137	87.2	87	231
TC6W-256	08OR-81	6	95.5	82.2	1	9.5	3.85	43.2	137	60.4	94	192
TC6W-257	08OR-96	6	*61.2	*85.5	1	11.2	3.59	32.6	98	51.5	310	141
TC6W-258	2011-Short-8	6	86.3	81.8	1	11.6	4.80	43.4	143	98.2	58	253
TC6W-259	2011-Short-9	6	*70	81.0	1	10.8	4.72	46.3	137	101.7	65	268
TC6W-260	2011-Short-11	6	84.5	82.0	1	11.1	4.84	45.1	156	100.6	58	259
TC6W-261	2011-Short-12	6	*80.8	81.6	1	11.0	4.78	46.1	163	96.5	135	249
TC6W-262	2011-Short-13	6	81.1	82.2	1	10.8	4.57	45.7	154	94.1	147	234
TC6W-263	2011-Short-14	6	86.8	82.5	1	10.9	4.75	45.9	158	91.6	78	255
TC6W-264	2011-Short-15	6	82.6	81.9	1	11.8	4.98	43.8	*196	98.0	79	267
TC6W-265	2011-Short-16	6	*74.8	80.8	1	11.1	4.76	44.0	171	100.3	98	267
TC6W-266	MW10S4116-001	6	88.5	79.3	1	12.2	4.97	41.1	178	98.7	186	253
TC6W-267	MW10S4116-002	6	94.8	78.0	1	12.5	5.12	43.1	*180	97.0	268	255
TC6W-268	MW10S4116-003	6	87.1	79.2	1	10.8	4.67	43.6	144	106.1	148	233
TC6W-269	MW10S4116-004	6	84.7	80.3	1	10.7	4.05	41.1	94	82.7	251	184
TC6W-270	MW10S4116-005	6	94.2	80.1	2	11.1	4.39	40.3	81	78.6	347	210
TC6W-271	MW10S4118-001	6	95.6	79.3	1	12.0	4.20	35.8	168	69.7	264	193
TC6W-272	MW10S4118-002	6	95.0	81.1	1	11.9	4.83	42.1	150	74.0	221	240
TC6W-273	MW10S4118-003	6	*74.8	77.2	1	12.6	4.76	39.0	171	71.5	280	217
TC6W-274	MW10S4118-004	6	90.9	79.8	1	11.0	4.17	40.0	150	66.0	230	200
TC6W-275	MW10S4118-005	6	84.7	79.9	1	10.9	4.84	46.4	128	73.0	296	238
TC6W-276	MW10S4118-006	6	93.8	81.4	1	11.6	4.87	44.0	129	79.7	216	249
TC6W-277	MW10S4120-001	6	*79.4	79.6	1	11.2	4.77	43.2	149	79.8	273	234
TC6W-278	MW10S4120-002	6	84.7	80.2	1	11.4	5.08	46.4	152	77.0	243	242
TC6W-279	MW10S4120-003	6	88.3	79.6	1	11.7	4.85	42.0	144	71.5	327	227
TC6W-280	MW10S4120-004	6	89.5	79.4	1	12.1	5.21	44.4	159	82.7	299	260

Table 18. TCAP NUE MQ for Corvallis, OR 2012-13

(2012-13 TCAP Nitrogen Use Efficiency Trial (High N))

Entry	Name	Rowed	on 6/64" (%)	Malt Extract (%)	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (°ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)
TC6W-281	MW10S4120-005	6	84.0	80.1	1	12.4	5.31	44.0	*188	87.0	288	274
TC6W-282	MW10S4120-006	6	87.5	79.6	1	*13.0	5.28	41.1	171	85.3	264	259
TC6W-283	MW10S4120-007	6	83.2	79.8	1	11.4	4.89	45.4	144	71.3	416	226
TC6W-284	MW10S4120-008	6	80.9	79.7	1	12.4	5.42	44.9	*186	80.9	348	263
TC6W-285	MW10S4122-001	6	80.9	78.5	1	12.6	5.42	44.2	176	79.7	346	268
TC6W-286	MW10S4122-002	6	88.2	80.0	1	11.9	5.28	46.5	144	81.3	283	260
TC6W-287	MW10S4122-003	6	84.1	80.0	1	12.2	4.94	42.3	169	70.9	216	237
TC6W-288	MW10S4122-004	6	81.0	79.7	1	11.8	5.22	46.2	140	83.2	296	264
TC6W-289	MW10S4122-005	6	*76.7	77.1	1	*13.2	5.17	41.7	*187	69.1	433	238
TC6W-290	MW10S4122-006	6	89.6	79.9	1	12.0	5.37	46.4	148	86.3	242	263
TC6W-291	MW10S4122-007	6	86.8	80.9	1	11.0	5.01	47.7	140	92.7	237	251
TC6W-292	MW10S4122-008	6	90.5	79.8	1	11.5	5.42	50.3	129	88.9	131	276
TC6W-293	MW09S4076-001	6	87.6	76.3	1	11.0	4.40	43.5	116	71.9	362	208
TC6W-294	MW09S4076-002	6	96.8	76.7	1	11.8	4.59	41.2	122	81.0	414	210
TC6W-295	MW09S4078-001	6	94.0	78.0	3	9.9	3.32	35.1	99	52.2	426	144
TC6W-296	MW09S4078-002	6	95.1	79.7	1	11.3	4.80	46.3	105	90.5	278	240
TC6W-297	MW09S4080-001	6	*65.9	79.3	1	11.3	4.69	43.5	150	80.6	256	230
TC6W-298	MW09S4082-001	6	95.3	78.9	1	9.8	3.96	44.6	123	82.4	204	188
TC6W-299	MW09S4085-001	6	97.3	79.1	1	11.4	4.38	41.0	98	66.0	553	209
TC6W-300	MW09S4086-001	6	92.5	80.3	1	10.3	4.69	48.1	95	82.6	401	217
Check1	ALBA	6	97.3	79.7	1	9.5	3.45	37.5	94	55.4	515	144
Check1	ALBA	6	97.9	80.1	1	9.3	3.39	39.5	81	54.6	387	145
Check1	ALBA	6	96.9	80.0	1	9.5	3.41	38.7	80	57.4	405	142
Check1	ALBA	6	96.2	79.9	1	8.4	3.34	41.2	73	55.9	295	141
Check1	ALBA	6	98.3	80.1	1	9.2	3.39	38.7	78	57.9	333	143
Check1	ALBA	6	98.0	79.9	1	10.0	3.59	37.1	87	52.5	464	149
Check1	ALBA	6	99.0	80.4	1	9.8	3.58	37.8	90	59.5	415	149
Check2	MAJA	6	88.9	81.3	1	10.8	4.60	46.1	131	71.6	164	237

Table 18. TCAP NUE MQ for Corvallis, OR 2012-13

(2012-13 TCAP Nitrogen Use Efficiency Trial (High N))

Entry	Name	Rowed	on 6/64" (%)	Malt Extract (%)	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (°ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)
Check2	MAJA	6	92.0	82.2	1	9.9	4.23	44.7	116	77.0	125	220
Check2	MAJA	6	83.0	81.3	1	10.1	4.34	47.3	124	74.9	120	226
Check3	STRIDER	6	92.7	79.0	3	9.2	3.33	37.2	53	55.2	519	142
Check3	STRIDER	6	91.6	79.3	3	9.1	3.29	36.6	50	46.5	586	136
Check3	STRIDER	6	96.1	78.9	3	9.9	3.37	35.7	52	50.7	695	138

Table 19. Oregon Promise Entry List and Pedigrees

(2012-13 Oregon Promise Mapping Population)

Entry	Name	Type	Use	Parentage
1	DH120056	2	Maltling	Golden Promise/Full Pint
2	DH120057	2	Malting	Golden Promise/Full Pint
4	DH120145	2	Malting	Golden Promise/Full Pint
6	DH120165	2	Malting	Golden Promise/Full Pint
7	DH120166	2	Malting	Golden Promise/Full Pint
8	DH120231	2	Malting	Golden Promise/Full Pint
11	DH120020	2	Malting	Golden Promise/Full Pint
12	DH120031	2	Malting	Golden Promise/Full Pint
15	DH120078	2	Malting	Golden Promise/Full Pint
17	DH120080	2	Malting	Golden Promise/Full Pint
20	DH120083	2	Malting	Golden Promise/Full Pint
21	DH120084	2	Malting	Golden Promise/Full Pint
24	DH120087	2	Malting	Golden Promise/Full Pint
25	DH120088	2	Malting	Golden Promise/Full Pint
27	DH120090	2	Malting	Golden Promise/Full Pint
30	DH120157	2	Malting	Golden Promise/Full Pint
35	DH120185	2	Malting	Golden Promise/Full Pint
40	DH120281	2	Malting	Golden Promise/Full Pint
41	DH120282	2	Malting	Golden Promise/Full Pint
42	DH120283	2	Malting	Golden Promise/Full Pint
44	DH120285	2	Malting	Golden Promise/Full Pint
45	DH120298	2	Malting	Golden Promise/Full Pint
50	120203	2	Malting	Golden Promise/Full Pint
51	120204	2	Malting	Golden Promise/Full Pint
52	120205	2	Malting	Golden Promise/Full Pint
53	120206	2	Malting	Golden Promise/Full Pint
55	120208	2	Malting	Golden Promise/Full Pint
56	120209	2	Malting	Golden Promise/Full Pint
57	120314	2	Malting	Golden Promise/Full Pint
59	120316	2	Malting	Golden Promise/Full Pint
61	120318	2	Malting	Golden Promise/Full Pint
64	120322	2	Malting	Golden Promise/Full Pint
65	120323	2	Malting	Golden Promise/Full Pint
66	120324	2	Malting	Golden Promise/Full Pint
67	120325	2	Malting	Golden Promise/Full Pint
68	120326	2	Malting	Golden Promise/Full Pint
70	120328	2	Malting	Golden Promise/Full Pint
71	120329	2	Malting	Golden Promise/Full Pint
72	120330	2	Malting	Golden Promise/Full Pint
73	120331	2	Malting	Golden Promise/Full Pint
74	120332	2	Malting	Golden Promise/Full Pint

Table 19. Oregon Promise Entry List and Pedigrees

(2012-13 Oregon Promise Mapping Population)

Entry	Name	Type	Use	Parentage
76	120334	2	Malting	Golden Promise/Full Pint
77	120335	2	Malting	Golden Promise/Full Pint
78	120336	2	Malting	Golden Promise/Full Pint
79	120338	2	Malting	Golden Promise/Full Pint
80	120339	2	Malting	Golden Promise/Full Pint
82	120341	2	Malting	Golden Promise/Full Pint
83	120342	2	Malting	Golden Promise/Full Pint
84	120343	2	Malting	Golden Promise/Full Pint
85	120344	2	Malting	Golden Promise/Full Pint
86	120345	2	Malting	Golden Promise/Full Pint
87	120346	2	Malting	Golden Promise/Full Pint
88	120347	2	Malting	Golden Promise/Full Pint
90	120350	2	Malting	Golden Promise/Full Pint
91	120351	2	Malting	Golden Promise/Full Pint
92	120352	2	Malting	Golden Promise/Full Pint
93	120353	2	Malting	Golden Promise/Full Pint
94	120355	2	Malting	Golden Promise/Full Pint
95	120357	2	Malting	Golden Promise/Full Pint
96	120358	2	Malting	Golden Promise/Full Pint
97	120359	2	Malting	Golden Promise/Full Pint
98	120360	2	Malting	Golden Promise/Full Pint
99	120361	2	Malting	Golden Promise/Full Pint
100	120362	2	Malting	Golden Promise/Full Pint
101	120363	2	Malting	Golden Promise/Full Pint
102	120364	2	Malting	Golden Promise/Full Pint
103	120365	2	Malting	Golden Promise/Full Pint
104	120366	2	Malting	Golden Promise/Full Pint
105	120368	2	Malting	Golden Promise/Full Pint
106	120369	2	Malting	Golden Promise/Full Pint
107	120371	2	Malting	Golden Promise/Full Pint
108	120373	2	Malting	Golden Promise/Full Pint
109	120374	2	Malting	Golden Promise/Full Pint
110	120375	2	Malting	Golden Promise/Full Pint
112	120377	2	Malting	Golden Promise/Full Pint
113	120378	2	Malting	Golden Promise/Full Pint
114	120380	2	Malting	Golden Promise/Full Pint
115	120381	2	Malting	Golden Promise/Full Pint
116	120382	2	Malting	Golden Promise/Full Pint
117	120383	2	Malting	Golden Promise/Full Pint
118	120384	2	Malting	Golden Promise/Full Pint
119	120385	2	Malting	Golden Promise/Full Pint

Table 19. Oregon Promise Entry List and Pedigrees

(2012-13 Oregon Promise Mapping Population)

Entry	Name	Type	Use	Parentage
120	120386	2	Malting	Golden Promise/Full Pint
121	120387	2	Malting	Golden Promise/Full Pint
122	120388	2	Malting	Golden Promise/Full Pint
126	120393	2	Malting	Golden Promise/Full Pint
127	120394	2	Malting	Golden Promise/Full Pint
128	120395	2	Malting	Golden Promise/Full Pint
129	120396	2	Malting	Golden Promise/Full Pint
130	120397	2	Malting	Golden Promise/Full Pint
131	120398	2	Malting	Golden Promise/Full Pint
132	120399	2	Malting	Golden Promise/Full Pint
133	120400	2	Malting	Golden Promise/Full Pint
134	120401	2	Malting	Golden Promise/Full Pint
135	120402	2	Malting	Golden Promise/Full Pint
136	120403	2	Malting	Golden Promise/Full Pint
137	120503	2	Malting	Golden Promise/Full Pint
138	120505	2	Malting	Golden Promise/Full Pint
140	120510	2	Malting	Golden Promise/Full Pint
141	120512	2	Malting	Golden Promise/Full Pint
144	120516	2	Malting	Golden Promise/Full Pint
147	120521	2	Malting	Golden Promise/Full Pint
148	120523	2	Malting	Golden Promise/Full Pint
149	120524	2	Malting	Golden Promise/Full Pint
150	120525	2	Malting	Golden Promise/Full Pint
151	120526	2	Malting	Golden Promise/Full Pint
152	120527	2	Malting	Golden Promise/Full Pint
154	120529	2	Malting	Golden Promise/Full Pint
155	120530	2	Malting	Golden Promise/Full Pint
156	120531	2	Malting	Golden Promise/Full Pint
157	120532	2	Malting	Golden Promise/Full Pint
158	120534	2	Malting	Golden Promise/Full Pint
160	120536	2	Malting	Golden Promise/Full Pint
161	120537	2	Malting	Golden Promise/Full Pint
164	120540	2	Malting	Golden Promise/Full Pint
165	120541	2	Malting	Golden Promise/Full Pint
168	120545	2	Malting	Golden Promise/Full Pint
169	120654	2	Malting	Golden Promise/Full Pint
172	120658	2	Malting	Golden Promise/Full Pint
173	120659	2	Malting	Golden Promise/Full Pint
174	120661	2	Malting	Golden Promise/Full Pint
175	120662	2	Malting	Golden Promise/Full Pint
176	120663	2	Malting	Golden Promise/Full Pint

Table 19. Oregon Promise Entry List and Pedigrees

(2012-13 Oregon Promise Mapping Population)

Entry	Name	Type	Use	Parentage
177	120664	2	Malting	Golden Promise/Full Pint
178	120665	2	Malting	Golden Promise/Full Pint
181	120668	2	Malting	Golden Promise/Full Pint
182	120669	2	Malting	Golden Promise/Full Pint
183	120670	2	Malting	Golden Promise/Full Pint
184	120671	2	Malting	Golden Promise/Full Pint
185	120672	2	Malting	Golden Promise/Full Pint
186	120673	2	Malting	Golden Promise/Full Pint
188	120675	2	Malting	Golden Promise/Full Pint
189	120677	2	Malting	Golden Promise/Full Pint
195	120685	2	Malting	Golden Promise/Full Pint
196	120688	2	Malting	Golden Promise/Full Pint
200	120695	2	Malting	Golden Promise/Full Pint
201	120696	2	Malting	Golden Promise/Full Pint
204	120700	2	Malting	Golden Promise/Full Pint
205	120703	2	Malting	Golden Promise/Full Pint
206	120707	2	Malting	Golden Promise/Full Pint
207	120708	2	Malting	Golden Promise/Full Pint
209	120714	2	Malting	Golden Promise/Full Pint
211	120718	2	Malting	Golden Promise/Full Pint
212	120719	2	Malting	Golden Promise/Full Pint
213	120722	2	Malting	Golden Promise/Full Pint
214	120724	2	Malting	Golden Promise/Full Pint
215	120725	2	Malting	Golden Promise/Full Pint
216	120726	2	Malting	Golden Promise/Full Pint
217	120729	2	Malting	Golden Promise/Full Pint
218	120730	2	Malting	Golden Promise/Full Pint
219	120731	2	Malting	Golden Promise/Full Pint
220	120733	2	Malting	Golden Promise/Full Pint
221	120737	2	Malting	Golden Promise/Full Pint
222	120740	2	Malting	Golden Promise/Full Pint
223	120744	2	Malting	Golden Promise/Full Pint
224	120745	2	Malting	Golden Promise/Full Pint
225	Golden Promise	2	Malting	
Check	Baronesse	2	Feed	
226	Full Pint	2	Malting	

Table 20. Oregon Promise MQ for Corvallis, OR 2012-13

(2012-13 Oregon Promise Mapping Population)

Entry	Name	Rowed	on 6/64" (%)	Malt Extract (%)	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (°ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)
1	DH120056	2	99	80.7	1	12.1	5.85	49.6	108	105.7	128	257
2	DH120057	2	93	79.0	1	12.9	5.48	45.6	140	89.0	146	238
3	DH120145	2	96	77.5	1	11.5	3.96	36.2	118	56.5	196	143
4	DH120165	2	98	78.8	1	11.4	4.15	37.8	132	59.8	102	155
5	DH120166	2	93	77.9	1	10.7	3.96	37.5	110	56.1	168	147
6	DH120231	2	98	77.7	1	13.4	5.50	43.9	166	107.1	189	248
7	DH120020	2	97	74.2	1	13.8	4.17	31.0	156	64.6	368	152
8	DH120031	2	94	76.7	1	14.7	5.31	36.9	167	85.5	199	233
9	DH120078	2	97	75.1	1	13.3	3.68	29.0	147	53.6	265	128
10	DH120080	2	99	77.8	1	13.3	5.38	40.8	147	78.5	147	222
11	DH120083	2	92	78.4	1	12.6	5.05	40.3	141	110.8	292	215
12	DH120084	2	91	76.1	1	13.7	4.27	33.4	136	50.8	273	149
13	DH120087	2	92	79.9	1	11.7	4.50	39.2	121	85.0	269	185
14	DH120088	2	92	76.7	1	14.0	5.35	40.6	111	88.5	499	233
15	DH120090	2	89	73.7	1	16.0	4.20	26.3	178	62.9	162	145
16	DH120157	2	90	76.0	1	13.4	3.86	30.5	116	65.8	326	142
17	DH120185	2	97	78.0	1	12.9	5.66	44.4	149	111.1	224	241
18	DH120281	2	99	77.5	2	12.2	3.97	33.8	113	46.8	172	141
19	DH120282	2	72	78.4	1	12.8	4.97	39.8	159	111.1	118	207
20	DH120283	2	88	77.7	1	12.8	5.09	42.4	125	105.5	200	230
21	DH120285	2	99	79.1	1	12.4	5.45	44.1	176	94.3	48	239
22	DH120298	2	89	77.2	1	12.9	4.17	34.1	145	58.0	109	158
23	120203	2	74	75.3	1	14.1	4.38	32.0	118	47.5	551	147
24	120204	2	78	77.2	1	13.9	5.56	41.5	163	80.6	223	230
25	120205	2	88	77.3	1	13.6	5.48	42.9	118	95.9	439	237
26	120206	2	99	77.5	1	14.5	6.12	44.6	129	95.2	197	274
27	120208	2	93	77.2	1	12.0	5.21	43.7	124	69.4	164	213
28	120209	2	98	76.4	1	15.0	5.95	39.8	132	102.7	323	242

Table 20. Oregon Promise MQ for Corvallis, OR 2012-13

(2012-13 Oregon Promise Mapping Population)

Entry	Name	Rowed	on 6/64" (%)	Malt Extract (%)	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (°ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)
29	120314	2	94	78.2	1	13.4	6.13	46.7	118	109.6	357	246
30	120316	2	86	76.5	1	14.4	5.45	38.9	211	83.8	100	186
31	120318	2	91	76.2	1	14.4	4.58	32.6	156	55.3	286	147
32	120322	2	100	75.0	1	14.7	4.65	33.0	174	51.7	432	139
33	120323	2	97	76.4	2	13.6	4.31	32.3	117	48.3	420	137
34	120324	2	94	74.9	2	14.7	4.43	30.7	177	50.4	376	153
35	120325	2	99	77.2	1	14.7	6.29	44.2	171	109.5	197	259
36	120326	2	89	80.1	1	12.4	5.17	42.6	129	101.9	193	207
37	120328	2	79	77.4	1	12.0	3.94	33.7	125	58.5	389	132
38	120329	2	93	77.7	1	11.7	3.75	33.4	107	43.2	443	121
39	120330	2	99	76.8	1	12.3	4.35	37.3	130	50.1	145	140
40	120331	2	100	75.7	2	14.5	3.83	27.1	121	48.8	458	121
41	120332	2	93	74.0	1	14.2	4.23	30.8	151	56.5	446	141
42	120334	2	93	78.6	1	13.0	5.37	41.4	154	70.5	170	178
43	120335	2	84	80.1	1	12.2	5.29	46.1	178	107.5	80	217
44	120336	2	99	78.5	1	12.7	4.59	36.4	145	77.8	205	155
45	120338	2	97	78.7	1	11.7	3.96	34.8	124	73.3	452	130
46	120339	2	87	79.9	1	10.6	3.74	35.9	102	70.1	282	140
47	120341	2	89	80.8	1	11.6	4.76	43.5	122	108.4	392	207
48	120342	2	91	78.5	1	13.0	5.32	42.7	153	126.5	128	243
49	120343	2	95	78.5	1	10.9	3.47	34.8	90	60.2	381	131
50	120344	2	89	77.6	1	11.7	3.61	33.2	113	56.3	482	131
51	120345	2	99	79.7	1	12.4	5.11	43.5	137	96.1	88	246
52	120346	2	95	77.2	1	11.5	3.76	33.0	133	58.7	240	144
53	120347	2	85	78.2	1	11.9	4.57	39.9	148	101.8	434	198
54	120350	2	86	76.2	1	12.0	3.73	33.1	143	54.6	531	134
55	120351	2	89	77.0	1	12.0	4.10	36.5	156	66.7	241	159
56	120352	2	79	74.5	1	14.3	4.06	29.1	161	51.6	552	146

Table 20. Oregon Promise MQ for Corvallis, OR 2012-13

(2012-13 Oregon Promise Mapping Population)

Entry	Name	Rowed	on 6/64" (%)	Malt Extract (%)	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (°ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)
57	120353	2	99	77.8	1	13.4	4.11	32.9	121	81.8	363	152
58	120355	2	99	76.3	1	13.3	4.88	36.7	171	110.6	484	209
59	120357	2	83	78.2	1	11.2	4.37	40.2	107	95.7	541	193
60	120358	2	85	76.3	1	12.1	3.70	32.1	119	57.0	704	130
61	120359	2	95	76.7	1	12.5	3.66	30.4	113	62.0	659	133
62	120360	2	86	76.9	1	12.1	4.03	34.8	150	70.5	471	154
63	120361	2	96	78.4	1	11.2	3.69	34.2	127	56.3	369	130
64	120362	2	89	74.9	1	12.4	3.57	30.8	106	47.6	682	124
65	120363	2	92	80.9	1	11.7	5.09	46.6	114	93.9	212	239
66	120364	2	81	78.3	1	13.2	5.40	43.2	125	95.5	338	255
67	120365	2	88	74.6	1	14.7	4.49	31.3	154	74.2	466	172
68	120366	2	88	79.2	1	12.3	5.08	43.0	139	92.5	154	222
69	120368	2	95	78.6	1	11.1	3.58	33.7	121	61.0	365	130
70	120369	2	95	78.3	1	10.8	3.66	34.2	113	54.3	552	124
71	120371	2	99	80.3	1	11.4	4.78	44.2	121	101.6	442	191
72	120373	2	96	80.2	1	11.6	5.09	47.0	109	105.0	207	202
73	120374	2	94	80.4	1	11.3	4.59	42.8	120	97.5	572	183
74	120375	2	75	80.1	1	11.2	4.96	44.3	126	94.0	300	203
75	120377	2	99	78.1	1	12.5	5.22	42.3	152	113.9	319	220
76	120378	2	94	75.4	1	13.4	4.23	32.5	188	62.1	307	151
77	120380	2	*68	76.6	1	11.5	3.70	33.4	127	50.1	410	126
78	120381	2	99	78.3	1	11.8	4.47	39.9	128	76.3	302	169
79	120382	2	99	75.1	1	14.7	4.29	30.5	163	52.4	327	151
80	120383	2	95	76.6	1	13.1	3.86	30.9	158	46.0	556	129
81	120384	2	90	77.8	1	10.9	3.29	31.8	90	53.2	720	110
82	120385	2	98	76.1	1	12.7	4.07	34.1	110	52.1	598	144
83	120386	2	97	79.4	1	11.5	4.65	41.9	148	105.4	179	184
84	120387	2	97	78.3	1	11.5	3.80	34.0	136	69.8	300	130

Table 20. Oregon Promise MQ for Corvallis, OR 2012-13

(2012-13 Oregon Promise Mapping Population)

Entry	Name	Rowed	on 6/64" (%)	Malt Extract (%)	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (°ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)
85	120388	2	99	80.6	1	11.3	5.01	47.4	99	102.4	251	211
86	120393	2	98	80.0	1	11.6	5.34	48.5	134	113.4	319	215
87	120394	2	96	75.8	2	12.0	3.81	32.4	135	47.7	744	128
88	120395	2	96	80.5	1	11.6	5.38	48.0	132	94.9	149	215
89	120396	2	92	77.4	1	14.3	5.44	40.6	165	83.3	292	220
90	120397	2	87	79.7	1	12.9	5.22	41.9	116	85.6	468	216
91	120398	2	99	78.2	1	12.1	4.03	34.6	119	53.8	399	138
92	120399	2	96	78.6	1	13.1	5.22	41.2	144	106.2	329	223
93	120400	2	99	76.1	1	13.0	3.94	30.7	139	58.6	452	135
94	120401	2	86	79.4	1	11.3	4.50	43.1	109	80.1	465	182
95	120402	2	90	78.5	1	11.2	3.89	35.0	105	74.4	402	135
96	120403	2	90	76.6	1	12.9	3.48	29.1	114	53.0	604	119
97	120503	2	80	77.5	1	12.1	4.27	35.4	140	76.8	629	145
98	120505	2	99	79.2	1	12.5	5.54	46.0	150	99.0	271	235
99	120510	2	95	76.2	2	11.9	3.82	32.7	123	50.2	593	129
100	120512	2	82	76.9	1	12.0	3.93	35.5	100	52.3	524	142
101	120516	2	99	78.0	1	12.0	4.32	37.0	154	77.2	276	150
102	120521	3	99	76.2	1	13.0	3.78	31.0	107	64.0	712	127
103	120523	2	96	77.0	1	12.9	3.95	31.7	123	56.7	375	134
104	120524	2	100	77.8	1	13.7	5.23	38.8	141	95.4	182	229
105	120525	2	99	76.3	2	12.9	4.26	34.9	140	57.9	455	156
106	120526	2	91	80.3	1	12.6	5.35	44.0	129	96.2	190	230
107	120527	2	98	79.3	1	12.3	4.94	41.6	170	118.5	221	208
108	120529	2	99	76.8	1	15.3	5.63	38.4	*221	114.0	265	245
109	120530	2	78	78.1	1	12.8	5.10	40.9	150	97.7	191	214
110	120531	2	78	76.2	1	12.9	3.94	32.9	121	75.1	532	144
111	120532	2	74	78.1	1	12.8	5.05	40.8	120	112.0	423	206
112	120534	2	98	73.7	1	13.6	3.94	29.3	135	62.5	435	150

Table 20. Oregon Promise MQ for Corvallis, OR 2012-13

(2012-13 Oregon Promise Mapping Population)

Entry	Name	Rowed	on 6/64" (%)	Malt Extract (%)	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (°ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)
113	120536	2	100	77.2	1	13.5	3.93	31.1	157	67.7	283	121
114	120537	2	*67	76.2	1	11.6	3.73	33.4	112	55.4	283	123
115	120540	2	99	79.5	1	11.4	4.64	42.7	125	96.8	313	197
116	120541	2	89	78.1	1	11.2	3.68	34.7	131	62.1	482	125
117	120545	2	88	78.8	1	12.9	5.53	44.7	144	94.8	271	240
118	120654	2	99	78.8	1	11.7	4.66	41.9	88	88.1	183	202
119	120658	2	*69	75.1	2	12.9	3.97	31.6	114	53.3	458	143
120	120659	2	99	75.7	2	13.0	3.86	31.4	95	47.4	572	128
121	120661	2	93	77.9	1	12.0	3.82	33.4	116	59.1	443	132
122	120662	2	75	76.5	1	14.1	4.30	31.9	174	76.2	381	152
123	120663	2	82	74.8	1	14.3	4.31	30.2	163	77.5	460	163
124	120664	2	99	77.0	1	14.9	5.41	36.6	182	93.5	449	239
125	120665	2	87	76.4	1	14.4	4.84	33.7	147	79.1	288	182
126	120668	2	99	76.2	1	13.6	4.41	33.3	193	70.0	461	154
127	120669	2	97	78.2	1	13.3	5.22	39.9	185	100.8	372	219
128	120670	2	91	79.8	1	11.9	4.94	42.1	128	105.7	340	236
129	120671	2	99	75.6	1	14.7	4.67	33.0	164	71.4	144	202
130	120672	2	99	75.5	1	13.4	4.20	32.2	177	58.8	337	183
131	120673	2	91	75.1	1	15.3	4.51	31.1	209	59.5	182	175
132	120675	2	94	76.4	1	14.4	4.37	32.5	142	68.7	319	173
133	120677	2	83	77.3	1	12.3	3.75	33.1	125	72.1	397	149
134	120685	2	100	74.9	1	14.5	3.89	27.6	150	62.4	410	151
135	120688	2	88	77.1	1	13.9	5.23	39.5	190	95.5	298	246
136	120695	2	100	79.0	1	12.5	4.62	39.5	155	81.2	281	228
137	120696	2	83	78.3	1	12.3	4.03	34.1	127	62.8	329	171
138	120700	2	91	75.7	1	14.3	4.42	31.7	170	83.8	319	184
139	120703	2	94	76.5	1	12.6	3.68	30.2	144	53.6	323	148
140	120707	2	94	78.2	1	12.6	4.90	41.1	131	104.3	530	229

Table 20. Oregon Promise MQ for Corvallis, OR 2012-13

(2012-13 Oregon Promise Mapping Population)

Entry	Name	Rowed	on 6/64" (%)	Malt Extract (%)	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (°ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)
141	120708	2	95	77.5	1	12.5	3.72	30.4	111	58.6	697	148
142	120714	2	89	78.3	1	13.4	5.87	44.4	172	118.7	143	283
143	120718	2	91	75.8	1	13.7	4.11	30.8	154	78.2	621	171
144	120719	2	99	77.7	1	13.4	4.84	37.4	134	94.6	586	245
145	120722	2	89	77.4	1	14.0	3.81	28.4	123	71.8	724	156
146	120724	2	85	77.4	1	13.0	4.02	32.1	128	52.6	521	165
147	120725	2	74	79.5	1	11.4	3.90	34.7	133	60.1	324	173
148	120726	2	99	76.8	1	12.9	3.82	30.9	120	55.6	458	171
149	120729	2	86	77.9	1	12.1	3.75	31.9	105	67.3	403	162
150	120730	2	97	77.3	1	12.7	3.48	28.8	105	54.2	710	144
151	120731	2	99	77.7	1	13.3	3.99	31.1	112	66.8	350	161
152	120733	2	83	77.6	1	12.7	4.85	39.6	141	111.9	451	246
153	120737	2	92	77.1	1	12.5	3.71	31.0	133	52.2	348	152
154	120740	2	93	76.3	1	14.6	5.09	35.6	142	82.2	493	244
155	120744	2	82	76.8	1	12.8	5.19	41.7	137	116.3	431	253
156	120745	2	90	78.8	1	11.9	3.99	34.3	106	83.8	537	206
157	Golden Promise	2	91	77.8	1	11.9	3.64	32.2	98	52.1	677	172
158	Baronesse	2	97	79.3	3	10.0	3.50	37.0	81	57.2	305	150
159	Full Pint (BCD47)	2	100	78.1	1	13.9	5.07	36.4	204	122.4	421	245

Table 21. Charles/95SR316A Entry List and Pedigrees (Selections)

(2012-13 Charles/95SR316A Mapping Population)

Entry	Name	Type	Use	Parentage
1	11ID521	2	Malting	Charles #3/95SR316A#1
12	12ID12	2	Malting	Charles #3/95SR316A#1
14	11ID532	2	Malting	Charles #3/95SR316A#1
21	12ID21	2	Malting	Charles #3/95SR316A#1
23	12ID23	2	Malting	Charles #3/95SR316A#1
27	11ID545	2	Malting	Charles #3/95SR316A#1
31	12ID31	2	Malting	Charles #3/95SR316A#1
40	12ID40	2	Malting	Charles #3/95SR316A#1
51	11ID565	2	Malting	Charles #3/95SR316A#1
56	12ID56	2	Malting	Charles #3/95SR316A#1
77	11ID589	2	Malting	Charles #3/95SR316A#1
80	11ID592	2	Malting	Charles #3/95SR316A#1
P1	Charles #3	2	Malting	
P2	95SR316A#1	2	Malting	

Table 22. Charles/95SR316A MQ for Corvallis, OR 2012-13 (Selections)

(2012-13 Charles/95SR316A Mapping Population)

Entry	Name	Rowed	Plump (on 6/64") (%)	Malt Extract (%)	Wort Clarity	Barley Protein (%)	Wort Protein	S/T (%)	DP (°ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)
1	11ID521	2	97.8	79.4	1	11.9	5.62	48.1	106	95.0	191	266
12	12ID12	2	90.0	81.0	1	10.2	4.85	48.8	108	103.2	59	209
14	11ID532	2	95.5	82.6	1	10.4	4.66	46.6	99	96.4	169	211
21	12ID21	2	97.1	82.5	1	10.5	4.72	47.6	81	102.2	75	226
23	12ID23	2	96.5	82.1	1	10.5	5.00	49.3	81	103.7	190	228
27	11ID545	2	94.1	82.5	1	10.7	5.13	48.4	114	105.2	86	228
31	12ID31	2	98.2	81.7	1	10.3	4.90	49.1	115	100.8	55	227
40	12ID40	2	95.1	80.2	1	11.7	4.98	46.1	118	108.8	194	226
51	11ID565	2	99.0	80.7	1	11.2	5.76	52.8	105	95.3	220	273
56	12ID56	2	91.0	83.3	1	9.7	5.17	57.8	85	100.2	67	231
77	11ID589	2	93.9	82.8	1	9.7	4.84	52.7	84	107.9	203	220
80	11ID592	2	99.0	79.7	1	12.8	5.33	43.1	108	93.5	304	250
P1	Charles #3	2	97.3	81.4	1	11.0	5.06	48.6	99	95.6	145	239
P2	95SR316A#1	2	97.2	81.8	1	11.7	5.12	46.5	89	96.0	268	224

Table 23. Butta-12/Madre Selva Entry List and Pedigrees (Selections)

(2012-13 Butta-12/Madre Selva Mapping Population)

Entry	Name	Type	Use	Parentage
6	B-12/MS #6	2	Malting	Butta-12/Madre Selva
20	B-12/MS #20	2	Malting	Butta-12/Madre Selva
P1	Butta-12	2	Malting	
P2	Madre Selva	2	Malting	

Table 24. Butta-12/Madre Selva MQ for Corvallis, OR 2012-13 (Selections)

(2012-13 Butta-12/Madre Selva Mapping Population)

Entry	Name	Rowed	Plump (on 6/64") (%)	Malt Extract (%)	Wort Clarity	Barley Protein (%)	Wort Protein	S/T (%)	DP (°ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)
6	B-12/MS #6	2	99.0	74.7	1	15.1	5.02	34.5	119	59.3	605	173
20	B-12/MS #20	2	99.4	77.0	1	13.4	4.14	31.4	85	51.9	549	140
P1	Butta-12	2	98.7	76.4	1	14.6	4.82	35.0	169	61.8	472	173
P2	Madre Selva	2	98.3	74.6	1	15.2	4.65	32.1	104	59.2	*928	171

Table 25. Hull-less Food Barley Entry List and Pedigrees (Selections)

Trial	Entry	Name	Type	Use	Parentage
Oregon Hull-less Food Barley Trial	2	10.0656	2	Food	KW2-849 x (Luca/Waxbar/Luca8)
Oregon Hull-less Food Barley Trial	5	10.0691	2	Food	KW2-849 x (Luca/Waxbar/Luca8)
Oregon Hull-less Food Barley Trial	6	10.0883	2	Food	KW2-849 x (Luca/Waxbar/Luca8)
Oregon Hull-less Food Barley Trial	10	10.1151	6	Food	Fridericus x (Maja/Legacy//Maja/3/Doyce)
F5 Two Row Food Barley PYT	10	2-4	2	Food	Himalaya/3/Luca/Waxbar//Luca
F5 Two Row Food Barley PYT	15	3-5	2	Food	Himalaya/3/Luca/Waxbar//Luca
F5 Two Row Food Barley PYT	32	8-1	2	Food	Himalaya/3/Luca/Waxbar//Luca
F5 Two Row Food Barley PYT	38	9	2	Food	Vanessa/3/Luca/Waxbar//Luca
F5 Two Row Food Barley PYT	43	13-2	2	Food	Wintmalt/3/Luca/Waxbar//Luca
Doubled Haploid Food Barley PYT	24	10.2393	6	Food	Fridericus x (Maja/Legacy//Maja/3/Doyce)
Doubled Haploid Mini-Plots	13	10.1154	6	Food	Fridericus x (Maja/Legacy//Maja/3/Doyce)
Doubled Haploid Mini-Plots	36	10.1332	6	Food	Fridericus x (Maja/Legacy//Maja/3/Doyce)
Winter Food Barley Drill Strips	2	09OR-86	6	Food	Strider/Doyce
Winter Food Barley Drill Strips	3	Streaker	6	Food	Maja/Legacy/Maja/3/Doyce

Table 26. Hull-less Food Barley MQ for Corvallis, OR 2012-13 (Selections)

Trial	Entry	Name	Rowed	Plump (on 6/64") (%)	Malt Extract (%)	Wort Clarity	Barley Protein (%)	Wort Protein	S/T (%)	DP (°ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)
OHFBT	2	10.0656	2	98.0	86.0	1	12.0	4.39	39.3	60	59.3	839	165
OHFBT	5	10.0691	2	97.9	85.7	1	11.3	3.67	35.3	51	42.7	*1084	134
OHFBT	6	10.0883	2	96.3	*87.1	2	11.9	4.39	40.0	67	53.3	643	155
OHFBT	10	10.1151	6	*77.6	84.2	1	11.2	3.78	35.3	72	44.0	341	143
F5 2R FBPYT	10	2-4	2	94.4	83.1	1	13.5	3.73	28.9	83	50.5	808	129
F5 2R FBPYT	15	3-5	2	96.4	83.5	1	13.1	4.03	32.2	73	56.4	*1034	136
F5 2R FBPYT	32	8-1	2	96.9	81.8	1	13.7	3.97	30.4	80	49.2	*988	139
F5 2R FBPYT	38	9	2	95.9	84.7	1	13.7	4.18	32.3	114	48.3	660	144
F5 2R FBPYT	43	13-2	2	93.1	84.5	1	12.7	4.01	32.2	124	49.5	709	130
DH FBPYT	24	10.2393	6	97.0	80.5	1	15.0	3.83	26.8	98	47.2	651	141
DH MP	13	10.1154	6	96.4	81.2	1	14.6	3.76	26.9	127	51.7	744	136
DH MP	36	10.1332	6	94.9	80.2	1	13.1	3.48	27.9	106	42.6	*919	115
WFB DS	2	09OR-86	6	87.2	85.9	2	10.9	3.38	33.3	68	49.9	499	110
WFB DS	3	Streaker	6	*75.8	83.6	2	12.1	3.51	31.0	96	46.7	493	119

Table 27. Spring Malt Barley Entry List

Trial	Location	Entry	Name	Type	Use
Oregon Spring Barley Variety Trial	Corvallis (protected)	3	Copeland	2	Malting
Oregon Spring Barley Variety Trial	Corvallis (protected)	4	Meredith	2	Malting
Oregon Spring Barley Variety Trial	Corvallis (protected)	5	Metcalfe	2	Malting
Oregon Spring Barley Variety Trial	Corvallis (protected)	6	Full Pint	2	Malting
Oregon Spring Barley Variety Trial	Corvallis (protected)	7	2Ab04-X01084-27	2	Malting
Oregon Spring Barley Variety Trial	Corvallis (protected)	8	2Ab07-X031098-31	2	Malting
Oregon Spring Barley Variety Trial	Corvallis (protected)	9	2Ab08-X05M010-82	2	Malting
Oregon Spring Barley Variety Trial	Pendleton	3	Copeland	2	Malting
Oregon Spring Barley Variety Trial	Pendleton	4	Meredith	2	Malting
Oregon Spring Barley Variety Trial	Pendleton	5	Metcalfe	2	Malting
Oregon Spring Barley Variety Trial	Pendleton	6	Full Pint	2	Malting
Oregon Spring Barley Variety Trial	Pendleton	7	2Ab04-X01084-27	2	Malting
Oregon Spring Barley Variety Trial	Pendleton	8	2Ab07-X031098-31	2	Malting
Oregon Spring Barley Variety Trial	Pendleton	9	2Ab08-X05M010-82	2	Malting
Lewis Brown Spring Mini-Plots	Corvallis	1	Maris Mink	2	Malting

Table 28. Spring Malt Barley MQ for Corvallis, OR 2013

Trial	Entry	Name	Rowed	Plump (on 6/64") (%)	Malt Extract (%)	Wort Clarity	Barley Protein (%)	Wort Protein	S/T (%)	DP (°ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)
OSBVT-Cor	3	Copeland	2	96.8	82.4	1	9.6	4.72	52.5	102	86.4	40	220
OSBVT-Cor	4	Meredith	2	93.4	84.0	1	9.2	4.60	54.2	94	96.7	59	220
OSBVT-Cor	5	Metcalfe	2	94.4	83.3	1	10.1	5.04	51.8	127	110.5	53	247
OSBVT-Cor	6	Full Pint	2	94.7	80.7	1	11.5	4.96	46.8	153	115.6	150	240
OSBVT-Cor	7	2Ab04-X01084-27	2	94.8	82.0	1	9.4	3.95	44.9	99	84.4	94	175
OSBVT-Cor	8	2Ab07-X031098-31	2	93.1	84.2	1	10.1	5.09	53.4	116	103.4	26	247
OSBVT-Cor	9	2Ab08-X05M010-82	2	93.8	83.7	1	8.7	4.28	52.5	98	94.8	34	195
OSBVT-Pen	3	Copeland	2	97.0	81.2	1	10.8	4.41	43.4	116	91.6	32	189
OSBVT-Pen	4	Meredith	2	96.9	80.8	1	10.5	4.19	42.1	95	84.8	53	182
OSBVT-Pen	5	Metcalfe	2	98.0	81.5	1	11.2	4.31	40.8	100	87.0	139	195
OSBVT-Pen	6	Full Pint	2	95.0	78.8	1	12.9	4.62	37.9	149	101.1	258	201
OSBVT-Pen	7	2Ab04-X01084-27	2	91.4	81.0	1	12.3	4.16	36.1	101	78.1	696	145
OSBVT-Pen	8	2Ab07-X031098-31	2	91.0	80.5	1	12.0	4.70	39.5	133	99.3	46	198
OSBVT-Pen	9	2Ab08-X05M010-82	2	90.0	79.8	1	12.2	4.69	40.0	135	100.8	44	193
LBSMP	1	Maris Mink	2	85.7	77.5	2	11.7	3.61	33.1	84	61.0	433	133