

# Barley Project Malting Quality Data 2014



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## 2014 Malt Quality for Oregon State University Barley Trials

### 2013-14 OWBSYT; 19 selections

Data Provided by

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## Table 1. OWBSYT MQ Entry list and Pedigrees (Selections)

(2013-14 Oregon Winter Barley Statewide Yield Trial)

Entry	Name	Type	Use	Parentage
5	Buck (09OR-86)	6	Food	Strider/Doyce
6	Charles	2	Malt	
7	Endeavor	2	Malt	
8	10.0860	2	Malt	Wintmalt/Charles
9	10.0777	2	Malt	Wintmalt/Charles
11	10.0740	2	Malt	Wintmalt/Bari 2B8-3149
12	TCFW6-194	6	Malt/Feed	Stab 47/Kab 51
33	Wintmalt	2	Malt	
34	Liga	2	Malt	
35	Maltesse	2	Malt	
36	Nectaria	2	Malt	
37	Violetta	2	Malt	
38	05-5401/01	2	Malt	
39	04/028/36	2	Malt	
40	07/041/8	2	Malt	
41	Malwinta	2	Malt	
42	Ariane	2	Malt	
43	SC 11203	2	Malt	
44	SC 11213	2	Malt	

**Table 2. OWBSYT MQ for Corvallis, OR in 2013-14 (Selections)**

(2013-14 Oregon Winter Barley Statewide Yield Trial)

Data Provided by Cereal Crops Research Unit

Entry Name	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agtron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (°ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)
6 Charles	2	<b>31.9</b>	99.2	38	79.7	2.7	1	11.6	5.31	46.0	164	101.2	<b>189</b>	249
7 Endeavor	2	<b>33.3</b>	*85.1	39	80.4	2.5	1	11.7	5.39	<b>49.4</b>	179	102.5	<b>247</b>	247
8 10.0860	2	<b>33.6</b>	95.2	34	81.1	2.7	1	11.7	5.26	<b>48.5</b>	138	91.8	77	278
9 10.0777	2	<b>35.6</b>	93.9	35	81.6	*3.1	1	11.1	5.68	<b>52.2</b>	164	110.2	33	283
12 TCFW6-194	6	31.7	*82.9	63	*77.1	2.1	1	<b>11.5</b>	<b>3.79</b>	<b>36.1</b>	<b>106</b>	58.1	<b>371</b>	<b>150</b>
33 Wintmalt	2	<b>35.7</b>	93.6	39	79.8	2.2	1	11.7	<b>3.92</b>	<b>36.3</b>	135	56.4	<b>150</b>	<b>168</b>
34 Liga	2	41.8	96.5	46	81.0	2.0	1	<b>10.9</b>	4.12	<b>39.7</b>	139	53.5	43	188
35 Maltesse	2	41.5	95.4	39	79.8	2.4	1	<b>10.3</b>	<b>3.84</b>	<b>39.3</b>	116	47.8	<b>473</b>	<b>157</b>
36 Nectaria	2	42.8	94.9	48	81.3	2.4	1	<b>10.9</b>	4.20	41.5	132	58.6	<b>236</b>	196
37 Violetta	2	40.8	94.2	44	80.8	2.2	1	11.5	4.64	42.2	188	53.8	<b>176</b>	217
38 05-5401/01	2	42.5	95.9	41	80.9	2.1	1	11.4	4.03	<b>38.8</b>	142	56.5	104	192
39 04/028/36	2	45.9	97.1	37	81.4	2.3	1	11.2	4.70	42.3	172	50.9	63	192
40 07/041/8	2	40.6	94.8	38	80.4	2.2	2	11.4	<b>3.66</b>	<b>34.7</b>	128	<b>38.9</b>	85	<b>143</b>
41 Malwinta	2	43.1	96.7	45	80.9	2.1	1	<b>10.8</b>	4.28	40.1	154	50.4	95	<b>169</b>
42 Ariane	2	42.8	96.2	40	80.6	2.1	1	11.2	4.13	40.0	140	53.4	109	189
43 SC 11203	2	44.4	95.6	37	80.6	2.3	1	<b>10.3</b>	<b>3.87</b>	<b>38.2</b>	129	42.9	<b>406</b>	<b>175</b>
44 SC 11213	2	39.1	92.2	30	79.7	2.6	1	<b>10.9</b>	<b>3.80</b>	<b>38.0</b>	114	47.9	<b>293</b>	<b>146</b>

**Table 3. OWBSYT MQ for Corvallis, OR (Lewis Brown Farm) in 2013-14 (Selections)**

(2013-14 Oregon Winter Barley Statewide Yield Trial Malt Quality)

Data Provided by Great Western Malting Co.

Entry Name	Moisture (%)	Extract Fine, as is (%)	Extract Fine, DB (%)	Extract		F/C	ASBC Color	DP (U/ml)	Alpha Amylase (U/ml)	Total Protein (%)	Wort Protein (%)	S/T (%)	pH	Wort Viscosity (Cp)	Wort Viscosity (Cs)	Beta-Glucan, mg/L	Turbidity (NTU)	FAN (mg/L)
				as is (%)	Coarse, DB (%)													
9 10.0777	4.5	78.0	81.7	77.0	80.6	1.1	9.07	92	49.2	9.38	6.14	65.5	5.70	1.52	1.47	109	6.6	316
8 10.0860	4.5	79.1	82.8	78.0	81.7	1.1	5.86	92	44.8	9.05	5.43	60.0	5.79	1.54	1.49	120	3.8	299
6 Charles	6.1	76.7	81.7	75.2	80.1	1.5	4.86	112	60.7	10.31	5.72	55.5	5.87	1.50	1.45	244	3.6	310
7 Endeavor	5.0	78.8	82.9	76.9	80.9	2.0	4.14	108	57.4	9.53	4.91	51.5	5.88	1.60	1.54	422	3.9	260
33 Wintmalt	7.0	75.0	80.7	73.4	79.0	1.7	2.88	134	51.8	10.57	4.47	42.3	6.02	1.54	1.49	285	5.3	230

**Table 4. OWBSYT MQ for Pendleton, OR in 2013-14 (Selections)**

(2013-14 Oregon Winter Barley Statewide Yield Trial)

Data Provided by Cereal Crops Research Unit

Entry Name	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agtron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (°ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)
5 Buck (09OR-86)	6	29.1	*51.3	45	*85.9	n.d.	3	<b>11.5</b>	<b>3.96</b>	<b>35.8</b>	<b>75</b>	<b>39.9</b>	<b>334</b>	<b>153</b>
6 Charles	2	<b>36.0</b>	92.3	77	81.9	2.2	1	11.4	4.74	43.7	131	91.0	65	213
7 Endeavor	2	<b>33.7</b>	*85.1	78	80.6	2.3	1	11.7	4.84	44.2	129	95.7	51	215
8 10.0860	2	<b>37.6</b>	96.5	81	81.8	2.1	1	11.3	4.49	43.0	110	81.8	47	195
9 10.0777	2	<b>37.8</b>	96.2	76	81.6	2.7	1	11.6	5.30	46.9	136	101.9	30	289
11 10.0740	2	42.7	98.0	60	80.3	2.7	1	11.9	5.17	45.4	<b>75</b>	83.3	72	238
33 Wintmalt	2	38.9	96.1	81	80.3	2.1	1	11.1	<b>3.90</b>	<b>36.3</b>	120	57.6	40	<b>146</b>
34 Liga	2	40.2	97.7	80	79.4	1.8	1	11.6	<b>3.81</b>	<b>35.5</b>	133	47.3	36	<b>160</b>
35 Maltesse	2	39.7	96.5	69	78.9	1.9	1	11.4	<b>3.83</b>	<b>35.9</b>	131	55.8	<b>201</b>	<b>157</b>
36 Nectaria	2	42.0	95.9	72	80.4	2.0	1	11.9	4.28	<b>38.5</b>	135	59.7	79	181
37 Violetta	2	38.7	95.9	78	80.0	1.7	1	11.5	4.32	<b>39.5</b>	165	59.1	83	185
38 05-5401/01	2	<b>37.7</b>	96.7	83	80.4	1.7	1	<b>10.9</b>	<b>3.97</b>	<b>38.8</b>	127	58.4	37	<b>164</b>
39 04/028/36	2	39.7	95.6	80	80.9	2.2	1	12.0	4.53	<b>39.3</b>	148	55.6	32	183
40 07/041/8	2	41.5	98.1	76	80.5	2.3	2	<b>10.8</b>	<b>3.57</b>	<b>35.2</b>	114	46.5	49	<b>121</b>
41 Malwinta	2	40.8	98.3	80	80.3	1.7	1	11.3	<b>4.00</b>	<b>37.4</b>	143	50.0	57	<b>145</b>
42 Ariane	2	40.4	96.6	75	80.8	2.0	1	11.3	<b>3.89</b>	<b>34.9</b>	124	46.5	37	<b>141</b>
44 SC 11213	2	<b>37.3</b>	93.6	76	*77.7	2.1	1	11.9	<b>3.48</b>	<b>31.7</b>	<b>99</b>	<b>38.1</b>	<b>212</b>	<b>115</b>

**Table 5. OWBSYT MQ for Pendleton, OR in 2013-14 (Selections)**

(2013-14 Oregon Winter Barley Statewide Yield Trial Malt Quality)

Data Provided by Great Western Malting Co.

Entry Name	Moisture (%)	Extract Fine, as is (%)	Extract Fine, DB (%)	Extract Coarse, as is (%)	Extract Coarse, DB (%)	F/C	ASBC Color	DP (U/ml)	Alpha Amylase (U/ml)	Total Protein (%)	Wort Protein (%)	S/T (%)	pH	Wort Viscosity (Cp)	Wort Viscosity (Cs)	Beta-Glucan, mg/L	Turbidity (NTU)	FAN (mg/L)
9 10.0777	6.7	78.2	83.8	77.4	82.9	0.9	2.15	180	71.0	10.81	5.71	52.8	5.91	1.47	1.42	31	3.5	320
8 10.0860	7.1	77.1	83.0	76.2	82.0	0.9	1.91	147	68.6	10.91	4.60	42.2	6.01	1.45	1.41	27	4.9	267
6 Charles	7.5	77.9	84.3	77.1	83.4	0.9	1.85	140	71.4	10.55	4.55	43.1	6.01	1.43	1.39	35	3.3	266
7 Endeavor	6.9	76.8	82.5	75.9	81.5	1.0	1.92	174	74.0	10.95	5.30	48.4	5.95	1.43	1.39	45	3.2	290
33 Wintmalt	7.7	75.9	82.2	75.0	81.2	1.0	1.49	139	61.9	10.85	4.01	37.0	6.07	1.43	1.38	29	3.2	197

**Table 6. Malt Training Population MQ for Corvallis, OR in 2013-14 (Selections)**

<b>Entry</b>	<b>Name</b>	<b>Type</b>	<b>Use</b>	<b>Parentage</b>
85	10.0861	2	Malt	Wintmalt/Charles
108	DH 10.1044	2	Malt	KW2-849 x (Luca/Waxbar/Luca)
113	DH120032	2	Malt	Wintmalt/Charles//BCD47
114	DH120046	2	Malt	Wintmalt/Charles//BCD47
125	DH120186	2	Malt	Wintmalt/Charles//BCD47
129	DH120228	2	Malt	Wintmalt/Charles//BCD47
155	DH120271	2	Malt	Maris Otter/BCD47
159	DH120276	2	Malt	Maris Otter/BCD47
174	DH130048	2	Malt	OR107/BCD47
210	DH130039	2	Malt	SHORT11-10 (TC6W261)//LPZ76/Charles//BCD47
214	DH130045	2	Malt	SHORT11-10 (TC6W261)//LPZ76/Charles//BCD47
230	DH130004	2	Malt	SHORT11-7 (TC6W265)//HERZ 29494/2991 (35)
233	DH130131	2	Malt	SHORT11-7 (TC6W265)//HERZ 29494/2991 (35)
234	DH120412	2	Malt	SHORT11-7 (TC6W265)//HERZ 29494/2991 (35)
242	DH120479	2	Malt	SHORT11-7 (TC6W265)//HERZ 29494/2991 (35)
255	DH120293	2	Malt	Wintmalt/Charles//BCD47
262	DH130864	2	Malt	BCD47/VIOLETTA
264	DH130939	2	Malt	BCD47/VIOLETTA
266	DH130590	2	Malt	OR101//HERZ 29494/2991 (35)
271	DH130860	2	Malt	OR818/KW2-042
272	DH130935	2	Malt	OR818/KW2-042
304	DH130527	2	Malt	SHORT11-10 (TC6W261)//LPZ76/Charles//BCD47
306	DH130533	2	Malt	SHORT11-10 (TC6W261)//LPZ76/Charles//BCD47
310	DH130718	2	Malt	SHORT11-10 (TC6W261)/3/LPZ76/Charles//BCD47
320	DH130762	2	Malt	SHORT11-10 (TC6W261)/3/LPZ76/Charles//BCD47
323	DH130765	2	Malt	SHORT11-10 (TC6W261)/3/LPZ76/Charles//BCD47
327	DH130328	2	Malt	SHORT11-13 (TC6W264)//HERZ 29494/2991 (35)
330	DH130909	2	Malt	SHORT11-13 (TC6W264)/HERZ 29494/2991 (35)
345	DH130910	2	Malt	SHORT11-7 (TC6W265)/HERZ 29494/2991 (35)
353	DH130709	2	Malt	SHORT11-9 (TC6W258)/KW2-042
366	10.0904	2	Malt	KW2-849 x (Luca/Waxbar/Luca8)
368	10.0925	2	Malt	KW2-849 x (Luca/Waxbar/Luca8)



**Table 7. Malt Training Population MQ for Corvallis, OR in 2013-14 (Selections)**

Data Provided by Cereal Crops Research Unit

Entry Name	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agtron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (°ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)
85 10.0861	2	40.8	94.8	48	78.7	1.6	1	10.9	3.84	36.1	101	52.0	287	131
108 DH 10.1044	2	41.2	93.7	33	80.5	2.1	1	11.7	4.06	36.7	203	43.0	75	147
113 DH120032	2	37.7	94.9	27	76.2	1.9	1	13.6	4.57	35.4	127	58.0	316	166
114 DH120046	2	40.3	94.9	37	79.8	1.6	1	11.0	3.65	34.1	116	63.0	117	121
125 DH120186	2	47.3	97.0	38	79.1	2.8	1	13.5	5.43	41.4	187	114.3	48	242
129 DH120228	2	42.6	96.4	48	82.2	2.0	1	11.5	5.40	50.3	165	110.2	31	259
155 DH120271	2	43.1	96.5	37	78.9	2.2	1	13.0	5.15	42.1	183	96.0	79	235
159 DH120276	2	37.6	94.2	41	80.9	2.1	1	11.8	4.91	44.8	146	94.9	60	207
174 DH130048	2	48.6	96.2	36	78.4	2.0	1	12.1	4.14	35.7	131	70.6	42	154
210 DH130039	2	39.4	96.0	29	80.8	2.7	1	13.0	5.72	45.2	170	103.5	42	253
214 DH130045	2	38.7	97.6	34	79.8	2.4	1	12.7	5.21	42.2	132	81.1	209	237
230 DH130004	2	42.1	98.5	43	81.0	2.3	1	12.7	5.54	46.2	137	72.7	46	272
233 DH130131	2	39.2	97.2	41	78.8	n.d.	3	12.5	4.62	37.2	148	47.3	79	198
234 DH120412	2	43.9	96.2	33	80.2	2.6	1	12.2	5.19	45.3	203	70.7	39	256
242 DH120479	2	48.5	98.2	50	78.6	3.3	2	13.1	4.48	36.7	184	40.0	54	192
255 DH120293	2	39.4	94.3	40	79.9	1.7	1	10.4	3.90	41.2	120	69.2	48	163
262 DH130864	2	42.8	94.2	41	78.7	1.6	1	13.6	4.67	35.4	*283	58.0	62	206
264 DH130939	2	46.6	97.8	41	81.5	2.5	1	11.3	4.96	46.6	130	98.6	125	251
266 DH130590	2	45.6	98.6	48	79.2	2.2	2	13.8	5.03	39.0	237	53.6	92	207
271 DH130860	2	49.4	97.7	37	79.6	2.1	1	11.3	3.90	37.7	116	43.9	157	163
272 DH130935	2	41.6	95.0	31	85.3	1.3	1	11.8	3.78	34.4	87	38.8	267	129
304 DH130527	2	40.8	97.5	26	80.9	2.7	1	12.3	5.51	48.3	150	101.1	37	278
306 DH130533	2	38.1	95.0	38	79.4	2.5	1	13.1	5.79	44.8	155	99.6	44	288
310 DH130718	2	43.7	99.4	38	80.4	1.9	1	12.6	5.09	43.2	140	79.8	61	238
320 DH130762	2	34.0	90.7	32	79.3	2.0	1	12.9	5.18	43.1	155	88.6	148	248
323 DH130765	2	45.2	98.9	31	81.2	2.0	1	13.6	5.82	45.3	206	82.7	43	283
327 DH130328	2	40.6	96.4	47	79.5	n.d.	3	12.0	4.30	38.9	163	44.4	79	171
330 DH130909	2	46.4	97.1	38	77.7	1.8	1	12.9	4.88	40.6	184	51.9	64	223
345 DH130910	2	50.6	98.3	54	80.6	1.8	1	12.3	4.46	37.3	164	41.3	64	192
353 DH130709	2	46.3	98.1	35	76.8	1.8	1	13.9	4.65	34.3	173	50.5	113	191
366 10.0904	2	39.2	93.5	38	79.3	1.8	1	11.8	3.77	34.8	88	46.5	144	151
368 10.0925	2	39.6	95.9	38	80.7	1.9	1	10.2	3.62	38.0	85	46.1	80	152

**Table 8. Malt Training Population MQ for Corvallis, OR in 2013-14 (Selections)**

Data Provided by Great Western Malting Co.

Entry Name	Moisture (%)	Extract Fine, as is (%)	Extract Fine, DB (%)	Extract Coarse, as is (%)	Extract Coarse DB (%)	F/C	ASBC Color	DP (U/ml)	Alpha Amylase (U/ml)	Total Protein (%)	Wort Protein (%)	S/T (%)	pH	Wort Viscosity (Cp)	Wort Viscosity (Cs)	Beta-Glucan (mg/L)	Turbidity (NTU)	FAN (mg/L)
85 10.0861	6.7	74.0	79.4	71.5	76.7	2.7	1.35	105	49.6	11.42	3.87	33.9	6.03	1.78	1.72	610	5.1	166
108 DH 10.1044	6.5	76.6	81.9	75.2	80.5	1.4	1.72	217	51.3	12.11	4.78	39.5	5.98	1.50	1.45	181	3.9	199
113 DH120032	6.7	71.9	77.1	69.2	74.2	2.9	1.58	115	50.5	12.31	4.72	38.3	6.04	1.79	1.74	659	4.4	192
114 DH120046	6.6	75.1	80.4	73.2	78.4	2.0	1.38	115	60.5	10.50	4.25	40.4	6.01	1.58	1.53	400	3.6	172
125 DH120186	5.9	74.3	79.0	73.1	77.7	1.3	3.65	81	51.3	11.32	6.40	56.6	5.90	1.53	1.48	143	5.3	313
129 DH120228	5.7	78.8	83.6	77.8	82.5	1.1	2.92	145	70.3	10.87	6.40	58.9	5.81	1.50	1.45	93	5.1	301
155 DH120271	6.0	75.3	80.1	73.9	78.6	1.5	2.48	170	69.9	12.24	6.08	49.7	5.91	1.51	1.46	226	4.5	276
159 DH120276	5.8	77.3	82.1	76.2	80.8	1.2	2.24	154	64.5	11.10	5.85	52.7	5.79	1.52	1.47	140	5.1	294
174 DH130048	6.2	74.7	79.6	73.2	78.0	1.6	1.94	125	60.6	11.05	4.80	43.4	5.97	1.54	1.49	243	4.5	213
210 DH130039	5.8	77.2	81.9	76.2	80.9	1.0	3.02	146	67.2	12.30	6.42	52.2	5.81	1.50	1.45	50	5.9	313
214 DH130045	6.9	76.5	82.2	75.1	80.7	1.5	2.86	139	61.9	11.71	6.29	53.7	5.84	1.52	1.48	219	4.4	302
230 DH130004	8.2	77.3	84.2	76.2	83.0	1.2	2.58	138	56.3	11.74	6.42	54.7	5.81	1.48	1.43	111	4.8	318
233 DH130131	4.2	73.9	77.1	71.7	74.8	2.3	2.27	125	41.0	12.32	4.60	37.4	5.93	1.64	1.59	497	35.7	188
234 DH120412	6.2	76.2	81.2	75.1	80.1	1.2	2.67	163	58.0	11.36	5.82	51.2	5.88	1.46	1.41	92	5.1	287
242 DH120479	6.0	73.6	78.3	71.1	75.6	2.7	1.68	149	37.5	12.49	4.54	36.3	5.97	1.70	1.65	611	11.0	192
255 DH120293	5.9	75.8	80.6	74.3	79.0	1.6	2.03	107	57.8	10.45	4.54	43.4	6.05	1.55	1.50	260	5.1	216
262 DH130864	6.1	75.0	79.9	73.5	78.3	1.6	1.91	217	55.8	13.08	5.57	42.6	5.98	1.54	1.49	216	3.3	250
264 DH130939	5.7	77.9	82.7	76.5	81.2	1.5	3.44	117	59.7	11.86	5.95	50.1	5.95	1.58	1.53	228	6.3	295
266 DH130590	6.2	75.3	80.3	73.9	78.8	1.5	2.02	190	47.0	13.47	5.68	42.2	5.85	1.51	1.47	208	8.3	259
271 DH130860	6.2	77.2	82.3	75.5	80.5	1.8	2.03	130	53.6	10.69	5.17	48.4	6.01	1.60	1.55	334	3.9	255
272 DH130935	6.5	75.4	80.6	73.7	78.7	1.8	2.07	142	58.9	12.10	4.96	41.0	6.02	1.57	1.52	317	5.8	241
304 DH130527	5.5	76.9	81.3	75.8	80.1	1.2	4.42	120	56.8	11.80	6.55	55.5	5.81	1.54	1.49	101	10.0	327
306 DH130533	5.7	75.9	80.4	74.8	79.3	1.1	3.90	118	54.1	12.61	6.25	49.6	5.84	1.49	1.44	60	7.0	325
310 DH130718	5.4	77.4	81.9	76.3	80.6	1.2	3.68	109	50.9	12.01	6.28	52.3	5.80	1.52	1.47	124	5.9	310
320 DH130762	5.3	76.3	80.6	75.2	79.5	1.2	4.24	114	55.3	11.66	6.68	57.3	5.80	1.52	1.47	102	8.7	351
323 DH130765	5.6	77.5	82.1	76.4	81.0	1.1	3.75	158	55.1	12.59	6.98	55.5	5.79	1.52	1.47	79	6.8	337
327 DH130328	6.9	73.7	79.2	70.6	75.8	3.3	2.62	112	21.7	12.64	3.89	30.7	6.09	1.98	1.91	830	49.1	135
330 DH130909	6.2	73.9	78.7	72.4	77.2	1.5	2.10	166	49.2	11.65	5.93	50.9	5.88	1.53	1.49	197	4.5	262
345 DH130910	6.4	76.7	81.9	75.0	80.1	1.8	1.60	144	41.3	10.98	5.23	47.6	5.85	1.56	1.51	315	5.1	228
353 DH130709	6.0	74.9	79.6	73.1	77.7	1.9	2.35	159	49.4	12.63	6.31	49.9	5.88	1.57	1.53	343	6.0	256
366 10.0904	5.7	76.8	81.4	75.5	80.0	1.4	2.48	94	55.4	10.89	5.53	50.8	5.91	1.57	1.52	195	4.4	243
368 10.0925	6.0	77.3	82.3	76.3	81.1	1.1	2.11	89	54.6	9.64	4.69	48.6	5.92	1.51	1.46	110	4.9	220

**Table 9. Oregon Promise MQ for Corvallis, OR in 2014 (Selections)**

<b>Entry</b>	<b>Name</b>	<b>Type</b>	<b>Use</b>	<b>Parentage</b>
3	DH120058	2	Malt	Golden Promise #1/BCD47
4	DH120145	2	Malt	Golden Promise #1/BCD47
7	DH120166	2	Malt	Golden Promise #1/BCD47
10	DH120263	2	Malt	Golden Promise #1/BCD47
11	DH120020	2	Malt	Golden Promise #1/BCD47
12	DH120031	2	Malt	Golden Promise #1/BCD47
24	DH120089	2	Malt	Golden Promise #1/BCD47
25	DH120090	2	Malt	Golden Promise #1/BCD47
27	DH120156	2	Malt	Golden Promise #1/BCD47
30	DH120185	2	Malt	Golden Promise #1/BCD47
35	DH120283	2	Malt	Golden Promise #1/BCD47
36	DH120285	2	Malt	Golden Promise #1/BCD47
45	120314	2	Malt	Golden Promise x BCD47
51	120322	2	Malt	Golden Promise x BCD47
54	120325	2	Malt	Golden Promise x BCD47
57	120329	2	Malt	Golden Promise x BCD47
58	120330	2	Malt	Golden Promise x BCD47
59	120331	2	Malt	Golden Promise x BCD47
65	120338	2	Malt	Golden Promise x BCD47
68	120341	2	Malt	Golden Promise x BCD47
69	120342	2	Malt	Golden Promise x BCD47
83	120359	2	Malt	Golden Promise x BCD47
87	120363	2	Malt	Golden Promise x BCD47
89	120365	2	Malt	Golden Promise x BCD47
90	120366	2	Malt	Golden Promise x BCD47
94	120373	2	Malt	Golden Promise x BCD47
95	120374	2	Malt	Golden Promise x BCD47
100	120380	2	Malt	Golden Promise x BCD47
101	120381	2	Malt	Golden Promise x BCD47
104	120384	2	Malt	Golden Promise x BCD47
123	120510	2	Malt	Golden Promise x BCD47
125	120516	2	Malt	Golden Promise x BCD47
127	120520	2	Malt	Golden Promise x BCD47
128	120521	2	Malt	Golden Promise x BCD47
132	120526	2	Malt	Golden Promise x BCD47
135	120529	2	Malt	Golden Promise x BCD47
141	120536	2	Malt	Golden Promise x BCD47
142	120537	2	Malt	Golden Promise x BCD47
147	120543	2	Malt	Golden Promise x BCD47
149	120654	2	Malt	Golden Promise x BCD47
151	120657	2	Malt	Golden Promise x BCD47
154	120661	2	Malt	Golden Promise x BCD47
163	120671	2	Malt	Golden Promise x BCD47

<b>Entry</b>	<b>Name</b>	<b>Type</b>	<b>Use</b>	<b>Parentage</b>
177	120691	2	Malt	Golden Promise x BCD47
186	120709	2	Malt	Golden Promise x BCD47
188	120715	2	Malt	Golden Promise x BCD47
197	120731	2	Malt	Golden Promise x BCD47
201	120744	2	Malt	Golden Promise x BCD47
203	Golden Promise	2	Malt	
204	Full Pint (BCD47)	2	Malt	

**Table 10. Oregon Promise MQ for Corvallis, OR in 2014 (Selections)**

Entry Name	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agtron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (°ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)
3 DH120058	2	46.4	96.6	63	80.6	1.8	1	10.6	4.10	43.4	133	74.5	45	190
4 DH120145	2	45.9	97.1	55	79.6	1.8	1	9.6	3.60	40.9	101	53.4	111	177
7 DH120166	2	45.6	96.8	53	79.9	1.9	1	9.3	3.62	41.2	104	54.2	75	181
10 DH120263	2	35.4	89.8	45	77.4	2.3	1	11.8	4.30	38.3	135	56.0	17	201
11 DH120020	2	52.7	97.6	56	77.5	1.9	1	11.6	3.85	33.7	137	72.1	262	179
12 DH120031	2	50.6	97.2	58	80.1	2.5	1	11.7	4.58	41.1	120	76.9	177	240
24 DH120089	2	47.0	97.7	59	82.2	2.3	1	9.8	4.26	50.5	93	81.6	67	246
25 DH120090	2	42.6	96.6	52	78.1	1.6	1	12.3	3.62	31.3	143	65.3	38	180
27 DH120156	2	42.7	96.9	52	78.7	1.6	1	10.4	3.23	31.6	93	48.8	207	142
30 DH120185	2	36.7	85.2	46	80.5	2.5	1	10.4	4.76	51.4	137	105.5	26	262
35 DH120283	2	32.3	72.0	50	78.2	2.5	1	10.7	4.52	47.2	93	93.1	54	242
36 DH120285	2	48.6	96.7	55	80.1	2.4	1	11.5	5.10	48.4	160	91.5	35	267
45 120314	2	43.8	96.4	37	79.9	2.6	1	11.3	5.11	49.8	96	103.7	101	253
51 120322	2	48.4	98.2	42	79.1	1.7	1	11.8	3.99	36.8	134	59.4	123	167
54 120325	2	41.3	96.0	48	80.5	2.4	1	10.7	4.74	47.3	100	99.4	35	242
57 120329	2	41.3	95.4	48	79.5	1.7	1	10.1	3.22	33.2	88	45.1	281	137
58 120330	2	47.9	98.6	52	79.1	1.7	1	11.0	3.54	33.5	120	55.1	56	146
59 120331	2	43.1	97.8	51	79.5	1.5	1	10.8	3.23	31.1	104	49.5	115	135
65 120338	2	29.7	*67.9	56	77.7	1.8	1	9.9	3.26	35.3	99	54.9	223	133
68 120341	2	46.7	97.9	56	82.7	2.4	1	9.8	4.39	46.2	88	91.4	206	228
69 120342	2	38.1	91.2	47	80.3	2.3	1	10.4	4.20	43.8	120	110.5	69	230
83 120359	2	30.6	*64.4	55	78.3	1.7	1	10.6	3.18	33.0	105	56.6	272	134
87 120363	2	46.8	98.0	67	82.5	2.3	1	10.1	4.28	50.6	100	87.0	34	240
89 120365	2	41.5	95.6	34	79.0	1.6	1	11.4	3.89	36.3	139	65.2	110	185
90 120366	2	42.0	96.0	55	81.5	2.1	1	9.9	4.29	44.8	115	85.8	27	217
94 120373	2	34.1	78.6	57	80.9	2.2	1	10.3	4.68	51.3	106	106.0	18	230
95 120374	2	46.9	97.7	58	82.0	2.1	1	9.7	4.26	48.5	114	95.4	146	214
100 120380	2	29.0	*63.4	56	76.3	1.9	1	10.6	3.20	31.8	109	42.6	293	126
101 120381	2	44.5	96.7	54	80.0	2.0	1	10.8	4.02	43.9	120	78.1	35	191
104 120384	2	45.2	96.6	62	80.3	1.7	1	11.3	3.03	32.8	91	52.1	442	131
123 120510	2	53.3	99.4	54	78.5	1.7	1	11.3	3.75	35.9	115	46.6	304	169
125 120516	2	44.6	96.1	60	79.9	1.8	1	10.9	3.95	37.0	162	78.6	39	195
127 120520	2	42.1	93.1	45	79.7	2.1	1	10.7	4.44	44.3	128	82.7	65	243
128 120521	2	46.7	95.6	46	77.5	1.7	1	11.6	3.61	33.0	104	63.2	*507	165
132 120526	2	41.6	90.9	61	81.5	2.6	1	10.2	4.60	49.3	84	91.2	76	266
135 120529	2	45.7	97.8	41	79.6	2.2	1	11.9	5.17	44.5	178	105.0	100	228
141 120536	2	49.5	97.8	59	80.5	1.5	1	11.1	3.78	37.3	138	68.6	115	140
142 120537	2	32.1	*66.6	51	77.5	1.9	1	10.4	3.55	37.8	120	52.8	55	143
147 120543	2	44.7	97.3	62	80.6	1.6	1	10.5	3.42	32.5	87	48.3	169	146

Entry Name	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agtron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (°ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)
149 120654	2	42.5	87.9	58	79.8	2.3	1	9.7	4.01	44.1	80	72.0	98	173
151 120657	2	45.0	94.2	53	81.3	2.4	1	10.2	4.58	50.2	81	90.5	70	202
154 120661	2	44.6	97.3	53	81.1	1.7	1	9.6	3.58	42.3	113	68.8	120	127
163 120671	2	43.5	94.4	37	78.7	1.8	1	12.2	3.76	33.9	148	72.2	46	158
177 120691	2	51.0	97.8	52	78.8	2.1	1	11.3	4.50	43.2	116	81.3	282	205
186 120709	2	43.4	94.7	57	78.3	1.8	1	10.9	3.66	35.1	109	69.4	413	156
188 120715	2	43.4	94.2	55	80.6	1.5	1	9.9	3.30	34.3	103	59.0	308	124
197 120731	2	40.8	93.2	57	81.4	1.6	1	9.9	3.43	36.8	99	66.0	156	155
201 120744	2	38.6	89.6	48	81.0	2.2	1	10.6	4.58	45.7	102	107.0	160	207
203 Golden Promise	2	36.5	87.7	59	79.8	1.6	1	9.8	3.26	34.9	83	53.0	306	128
204 Full Pint (BCD47)	2	48.7	97.8	50	80.9	2.6	1	10.9	4.94	46.6	146	118.3	133	220

**Table 11. Malt DH MP, DR, SR MQ for Corvallis, OR in 2013-14 (Selections)**

(2013-14 Malt Doubled Haploid Mini Plots, Double Rows, Single Rows)

Entry	Name	Type	Use	Parentage
2	DH120026	2	Malt	Maris Otter/BCD47
4	DH120036	2	Malt	Maris Otter/BCD47
9	DH120104	2	Malt	Wintmalt/Charles//BCD47
10	DH120112	2	Malt	Maris Otter/BCD47
11	DH120143	2	Malt	Maris Otter/BCD47
14	DH120175	2	Malt	Maris Otter/BCD47
15	DH120178	2	Malt	Maris Otter/BCD47
16	DH120193	2	Malt	Wintmalt/Charles//BCD47
17	DH120197	2	Malt	Wintmalt/Charles//BCD47
18	DH120201	2	Malt	Maris Otter/BCD47
20	DH120203	2	Malt	Maris Otter/BCD47
21	DH120204	2	Malt	Maris Otter/BCD47
22	DH120206	2	Malt	Maris Otter/BCD47
25	DH120232	2	Malt	Wintmalt/Charles//BCD47
31	DH120304	2	Malt	Maris Otter/BCD47
35	DH130724	2	Malt	SHORT11-10 (TC6W261)/3/LPZ76/Charles//BCD47
36	DH130735	2	Malt	BCD47/VIOLETTA
37	DH131038	2	Malt	KW2-043/OR104
38	DH131055	2	Malt	OR818/KW2-042
39	DH131064	2	Malt	05-5401/01/MARIS OTTER/BCD47
41	DH131067	2	Malt	BCD47/VIOLETTA
44	DH131110	2	Malt	OR818/KW2-042
45	DH131127	2	Malt	KW2-043/OR104
46	DH131142	2	Malt	BCD47/VIOLETTA
47	DH131143	2	Malt	BCD47/VIOLETTA
49	DH131145	2	Malt	BCD47/VIOLETTA
51	DH131153	2	Malt	KW2-042/OR910
52	DH131178	2	Malt	OR818/BISON 1,4,5
53	DH131184	2	Malt	OR818/KW2-042
54	DH131191	2	Malt	OR818/KW2-042
55	DH131197	2	Malt	12OR019 (TC6W-032)/ENDEAVOR
56	DH131198	2	Malt	12OR019 (TC6W-032)/ENDEAVOR
57	DH131202	2	Malt	BCD47/VIOLETTA
58	DH131208	2	Malt	BCD47/VIOLETTA
59	DH131283	2	Malt	OR818/KW2-042
60	DH131288	2	Malt	12OR019 (TC6W-032)/ENDEAVOR
61	DH131282	2	Malt	OR818/BISON 1,4,5
62	DH131333	2	Malt	BCD47/VIOLETTA
63	DH131444	2	Malt	OR818/VIOLETTA
64	DH131528	2	Malt	OR910/05-5401/05
65	DH131621	2	Malt	OR910/05-5401/01
66	DH131858	2	Malt	VIOLETTA/BCD47
67	DH131868	2	Malt	ENDEAVOR/BCD47
68	DH131994	2	Malt	VIOLETTA/BCD47
69	DH132005	2	Malt	VIOLETTA/BCD47

Entry	Name	Type	Use	Parentage
70	DH132008	2	Malt	OR104/GOLDEN P./BCD47
71	DH132010	2	Malt	ENDEAVOR/BCD47
72	DH132018	2	Malt	VIOLETTA/BCD47
73	DH132020	2	Malt	BCD47/VIOLETTA
74	DH132158	2	Malt	OR101/BCD47
75	10.0719	2	Malt	Wintmalt/Bari 2B08-3145
76	120571	2	Malt	OR76/Pewter
77	120576	2	Malt	OR76/Pewter
78	120593	2	Malt	OR76/Pewter
79	120596	2	Malt	OR76/Pewter
80	120597	2	Malt	OR76/Pewter
81	120819	2	Malt	OR76/Pewter
82	DH120015	2	Malt	Maris Otter/BCD47
83	DH120016	2	Malt	Maris Otter/BCD47
84	DH120052	2	Malt	Maris Otter/BCD47
85	DH120074	2	Malt	Maris Otter/BCD47
86	DH120075	2	Malt	Maris Otter/BCD47
87	DH120076	2	Malt	Maris Otter/BCD47
88	DH120077	2	Malt	Maris Otter/BCD47
89	DH120110	2	Malt	Maris Otter/BCD47
90	DH120144	2	Malt	Maris Otter/BCD47
91	DH120160	2	Malt	Maris Otter/BCD47
92	DH120163	2	Malt	Maris Otter/BCD47
93	DH120182	2	Malt	Maris Otter/BCD47
94	DH120188	2	Malt	Maris Otter/BCD47
95	DH120199	2	Malt	Maris Otter/BCD47
96	DH120200	2	Malt	Maris Otter/BCD47
97	DH120205	2	Malt	Maris Otter/BCD47
98	DH120207	2	Malt	Maris Otter/BCD47
99	DH120212	2	Malt	Maris Otter/BCD47
100	DH120214	2	Malt	Maris Otter/BCD47
101	DH120238	2	Malt	Maris Otter/BCD47
102	DH120239	2	Malt	Maris Otter/BCD47
103	DH120240	2	Malt	Maris Otter/BCD47
104	DH120242	2	Malt	Maris Otter/BCD47
105	DH120243	2	Malt	Maris Otter/BCD47
106	DH120244	2	Malt	Maris Otter/BCD47
107	DH120245	2	Malt	Maris Otter/BCD47
108	DH120246	2	Malt	Maris Otter/BCD47
Chk3	Full Pint	2	Malt	
Chk4	10.0860	2	Malt	
Chk5	Maris Otter	2	Malt	



**Table 12. Malt DH MP, DR, SR MQ for Corvallis, OR in 2013-14 (Selections)**

(2013-14 Malt Doubled Haploid Mini Plots, Double Rows, Single Rows)

Entry Name	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agtron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (°ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)
<b>Malt Doubled Haploid Mini Plots</b>														
2 DH120026	2	37.7	90.0	43	79.9	2.6	1	12.1	5.20	43.9	133	93.3	351	253
4 DH120036	2	43.9	96.0	44	81.7	2.7	1	12.6	5.99	49.2	139	90.0	200	301
9 DH120104	2	37.6	92.6	49	82.3	2.8	1	10.0	5.16	56.4	133	108.3	171	255
10 DH120112	2	34.5	87.1	43	81.8	2.2	1	10.6	4.21	43.2	134	68.8	217	176
11 DH120143	2	44.2	93.8	37	80.7	3.2	1	11.2	5.07	47.0	117	78.7	106	260
14 DH120175	2	41.3	96.7	35	82.1	2.2	1	9.7	4.58	49.6	150	100.8	51	227
15 DH120178	2	41.2	96.0	37	81.5	2.1	1	10.6	5.29	50.4	167	92.8	49	255
16 DH120193	2	45.9	97.2	49	82.2	2.0	1	8.8	4.00	46.1	86	68.1	147	179
17 DH120197	2	38.5	91.1	46	78.3	1.8	1	11.4	4.74	42.7	142	84.5	220	219
18 DH120201	2	40.7	95.3	45	82.8	2.2	1	10.3	5.07	50.6	156	96.0	55	247
20 DH120203	2	43.0	96.2	38	80.8	2.3	1	11.5	5.64	50.6	186	93.7	63	266
21 DH120204	2	40.7	94.6	45	81.2	1.8	1	9.5	4.13	43.4	76	57.0	154	187
22 DH120206	2	39.2	92.5	41	82.8	2.4	1	10.0	5.27	55.1	114	88.1	34	268
25 DH120232	2	40.2	94.1	36	81.7	2.5	1	10.2	5.36	54.6	89	101.3	155	269
31 DH120304	2	42.7	95.9	49	81.4	2.6	1	10.3	5.61	56.4	130	85.8	46	295
35 DH130724	2	44.5	96.1	39	79.8	2.6	1	12.4	5.57	47.1	130	86.8	84	271
36 DH130735	2	41.7	95.0	45	81.4	2.5	1	10.6	5.21	51.5	197	100.4	42	269
37 DH131038	2	46.0	96.2	42	81.1	2.0	1	10.7	4.45	43.4	146	63.0	98	200
38 DH131055	2	52.4	99.0	54	79.9	n.d.	3	11.7	4.27	37.6	105	53.4	136	194
39 DH131064	2	44.5	94.6	52	79.3	2.1	1	11.4	4.41	40.8	175	60.5	104	190
41 DH131067	2	40.0	93.1	43	79.2	2.2	1	11.7	4.41	38.8	231	54.7	78	176
44 DH131110	2	50.8	94.1	42	81.6	3.3	1	11.2	5.32	49.1	139	82.0	133	268
45 DH131127	2	40.8	95.2	36	79.3	1.9	1	13.3	4.86	36.7	184	51.6	51	206
46 DH131142	2	40.9	95.0	36	79.8	1.7	1	11.6	4.14	36.9	193	61.8	56	158
47 DH131143	2	39.9	93.4	34	80.7	3.1	1	11.9	5.81	51.2	151	113.7	75	286
49 DH131145	2	43.9	98.6	48	81.7	2.7	1	11.4	6.12	54.6	186	97.8	75	313
51 DH131153	2	52.8	95.4	37	76.1	2.3	1	12.3	4.58	39.3	155	56.7	324	195
53 DH131184	2	49.4	97.8	29	82.3	2.9	1	11.2	5.66	52.7	128	98.1	72	295
54 DH131191	2	49.5	96.3	39	81.9	2.4	1	11.0	5.02	47.5	102	81.6	120	257
56 DH131198	2	45.4	97.3	50	81.1	2.4	1	12.0	5.88	50.1	158	97.3	69	291
59 DH131283	2	42.7	92.1	48	80.7	2.0	1	10.4	4.83	46.6	125	74.8	279	233
60 DH131288	2	48.5	98.4	51	79.6	1.5	1	11.5	4.14	36.2	210	63.2	374	163
62 DH131333	2	40.7	92.5	50	81.0	1.5	1	10.8	4.10	38.7	194	65.1	198	159

Entry Name	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agtron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (°ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)
63 DH131444	2	47.9	98.7	52	81.9	2.3	1	11.2	5.26	48.5	133	78.9	227	250
64 DH131528	2	46.6	98.7	39	79.8	1.8	1	10.9	4.07	37.3	129	58.7	194	169
68 DH131994	2	49.9	98.5	44	78.1	1.8	1	12.9	4.50	35.1	175	47.1	151	168
70 DH132008	2	40.4	96.8	40	82.8	2.3	1	10.0	4.69	47.1	73	87.1	203	240
72 DH132018	2	42.7	95.0	54	81.1	1.4	1	12.2	4.71	40.3	148	68.8	177	194
73 DH132020	2	46.3	97.0	45	80.9	2.4	1	12.0	5.79	48.2	125	93.4	170	293
74 DH132158	2	42.0	92.7	45	78.0	1.7	1	12.7	4.62	37.3	173	71.1	235	196
76 120571	2	54.5	99.3	51	78.9	1.8	1	12.1	4.68	39.8	100	53.8	272	197
78 120593	2	45.8	98.9	42	78.7	2.0	1	12.3	4.38	38.3	104	46.3	155	188
82 DH120015	2	46.0	97.7	48	82.5	2.4	1	9.6	4.77	51.8	130	86.5	49	249
84 DH120052	2	45.0	95.6	46	79.4	1.8	1	11.0	4.39	40.4	147	67.5	152	178
87 DH120076	2	44.1	95.4	42	79.3	1.6	1	11.5	3.82	33.5	127	67.2	176	136
88 DH120077	2	40.2	95.1	48	80.4	1.9	1	11.4	4.80	42.7	169	87.3	226	230
89 DH120110	2	42.8	94.1	34	78.7	1.8	1	12.0	4.56	39.3	121	55.0	90	197
91 DH120160	2	43.2	95.0	37	79.9	2.3	1	12.3	5.66	46.5	164	84.1	54	264
93 DH120182	2	38.5	90.2	41	80.3	2.2	1	11.6	5.46	49.2	144	91.6	113	262
94 DH120188	2	36.3	96.0	50	80.8	1.7	1	10.8	4.47	43.7	91	75.3	302	206
96 DH120200	2	33.9	90.5	54	81.0	1.5	1	9.5	3.63	39.8	71	52.6	106	143
97 DH120205	2	35.6	85.8	42	78.6	2.3	1	11.3	4.16	37.1	132	50.8	274	174
101 DH120238	2	39.2	96.0	36	79.7	1.9	1	11.5	4.20	37.8	118	46.4	185	177
104 DH120242	2	38.4	94.8	36	78.9	1.9	1	11.7	4.12	36.0	113	54.7	540	178
105 DH120243	2	41.6	96.2	40	80.5	1.9	1	11.7	4.59	39.5	171	69.7	111	210
Chk3 Full Pint	2	39.9	93.6	42	80.6	2.1	1	10.7	4.74	44.5	195	110.6	122	249
Chk4 10.0860	2	40.2	96.2	51	82.9	2.0	1	10.0	4.46	46.4	113	81.5	64	261
Chk5 Maris Otter	2	31.9	86.8	51	81.8	1.8	1	9.2	3.81	44.7	67	39.7	130	148

**Malt Doubled Haploid Double Rows**

Chk3 Full Pint	2	40.5	90.1	36	79.3	2.2	1	13.2	5.29	42.6	227	111.9	167	300
Chk4 10.0860	2	36.0	94.3	38	82.4	2.1	1	10.3	4.51	47.8	120	74.2	83	220

**Malt Doubled Haploid Single Rows**

Chk3 Full Pint	2	43.1	93.8	36	79.0	2.4	1	13.2	5.48	41.6	193	107.9	255	302
Chk4 10.0860	2	36.8	92.6	42	81.6	2.4	1	11.3	4.93	44.6	118	84.0	166	260

**Table 13. Malt DH MP and DR MQ for Corvallis, OR in 2014 - Winter Planted (Selections)**

(2014 Malt Doubled Haploid Mini Plots and Double Rows - Winter Planted)

<b>Entry</b>	<b>Name</b>	<b>Type</b>	<b>Use</b>	<b>Parentage</b>
155	DH133487	2	Malt	05-5401/05/BCD47
156	DH133897	2	Malt	Violetta/Charles//BCD47
157	DH133898	2	Malt	Endeavor/Violetta//BCD47
158	DH133900	2	Malt	Endeavor/Violetta//BCD47
159	DH133967	2	Malt	Violetta/Charles//BCD47
160	DH133970	2	Malt	Violetta/Charles//BCD47
161	DH133971	2	Malt	Endeavor/Violetta//BCD47
162	DH133972	2	Malt	Endeavor/Violetta//BCD47
163	DH133973	2	Malt	Endeavor/Violetta//BCD47
164	DH133974	2	Malt	Endeavor/Violetta//BCD47
165	DH140082	2	Malt	Violetta/Charles//BCD47
166	DH140083	2	Malt	Violetta/Charles//BCD47
167	DH140084	2	Malt	Violetta/Charles//BCD47
168	DH140088	2	Malt	Violetta/Charles//BCD47
169	DH140182	2	Malt	Violetta/Charles//BCD47
170	DH140184	2	Malt	Violetta/Charles//BCD47
171	DH140187	2	Malt	Endeavor/Violetta//BCD47
172	DH140188	2	Malt	Endeavor/Violetta//BCD47
173	DH140189	2	Malt	Endeavor/Violetta//BCD47
174	DH140192	2	Malt	Endeavor/Violetta//BCD47
176	DH140194	2	Malt	Endeavor/Violetta//BCD47
chk3	Full Pint	2	Malt	
chk7	10.0777	2	Malt	Wintmalt/Charles

**Table 14. Malt DH MP and DR MQ for Corvallis, OR in 2014 - Winter Planted (Selections)**

(2014 Malt Doubled Haploid Mini Plots and Double Rows - Winter Planted)

Entry Name	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agrtron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (°ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)
<b>Malt Doubled Haploid Mini Plots</b>														
155 DH133487	2	43.5	95.4	73	79.9	1.5	1	10.6	3.71	35.9	145	65.2	85	166
156 DH133897	2	43.1	95.0	63	80.7	2.1	1	10.6	4.12	41.1	111	96.4	145	216
157 DH133898	2	50.3	97.2	63	79.3	2.1	1	11.8	4.91	42.3	168	94.8	57	237
158 DH133900	2	49.4	97.8	63	79.6	2.0	1	12.2	4.70	41.7	154	80.5	81	237
159 DH133967	2	47.5	98.3	64	82.3	2.2	1	9.7	4.45	46.9	98	96.1	44	215
160 DH133970	2	44.6	96.3	69	79.9	1.8	1	10.1	3.52	35.5	112	65.5	127	143
161 DH133971	2	52.9	99.3	64	79.2	1.9	1	12.4	4.56	37.3	135	89.5	311	183
162 DH133972	2	52.4	97.2	52	79.1	2.2	1	11.9	5.17	45.4	119	73.1	82	246
163 DH133973	2	49.5	96.3	63	80.8	2.3	1	10.7	5.29	50.0	131	106.0	47	275
164 DH133974	2	50.0	98.2	63	79.9	2.0	1	12.0	5.25	44.5	156	105.4	53	248
165 DH140082	2	52.8	98.3	62	79.2	2.3	1	12.7	5.89	47.3	182	92.3	59	278
166 DH140083	2	48.4	99.0	65	79.0	2.1	1	11.7	5.14	45.8	140	107.2	44	277
167 DH140084	2	45.6	92.7	66	81.2	1.9	1	9.7	4.38	47.5	122	87.6	55	220
168 DH140088	2	50.2	98.6	62	79.7	1.9	1	11.2	4.79	46.2	108	98.9	67	248
169 DH140182	2	48.9	98.7	60	79.5	2.2	1	11.9	5.37	46.1	136	103.0	46	281
170 DH140184	2	50.6	99.3	66	79.7	1.4	1	10.1	3.47	35.1	109	46.8	60	129
171 DH140187	2	47.3	98.0	59	79.4	2.1	1	10.7	4.74	44.6	174	90.6	65	218
172 DH140188	2	45.6	96.3	58	79.3	2.1	1	10.6	4.79	45.4	101	74.4	61	279
173 DH140189	2	47.9	96.6	60	78.6	2.4	1	13.5	5.15	40.3	162	91.2	61	292
174 DH140192	2	49.5	97.1	62	79.6	3.1	1	12.2	5.43	45.7	139	102.2	83	321
176 DH140194	2	48.5	99.0	56	79.3	2.1	1	11.8	4.84	44.0	169	86.8	59	259
Chk3 Full Pint	2	47.0	95.8	58	79.9	2.0	1	10.6	4.51	42.6	136	108.4	146	263
Chk7 10.0777	2	43.8	97.5	65	81.1	2.5	1	10.0	4.83	49.8	103	107.3	50	237
<b>Malt Doubled Haploid Double Rows</b>														
Chk3 Full Pint	2	50.2	99.4	52	79.7	2.3	1	11.5	4.75	41.6	145	105.9	207	268
Chk7 10.0777	2	42.6	94.6	66	81.1	2.7	1	9.8	4.99	52.1	102	114.8	53	256

**Table 15. INUDFOOD MQ Entry list and Pedigrees**

(2013-14 International Food Barley Trial)

<b>Entry</b>	<b>Name</b>	<b>Type</b>	<b>Use</b>	<b>Parentage</b>
1	10.0656	2	Food	KW2-849 x Luca/Waxbar/Luca8
2	10.0691	2	Food	KW2-849 x Luca/Waxbar/Luca8
3	10.0883	2	Food	KW2-849 x Luca/Waxbar/Luca8
4	10.0969	2	Food	KW2-849 x Luca/Waxbar/Luca8
5	10.1151	6	Food	Fridericus x Maja/Legacy//Maja/3/Doyce
6	10.1154	6	Food	Fridericus x Maja/Legacy//Maja/3/Doyce
7	10.1328	6	Food	Fridericus x Maja/Legacy//Maja/3/Doyce
8	10.1332	6	Food	Fridericus x Maja/Legacy//Maja/3/Doyce
9	10.1661	6	Food	Fridericus x Maja/Legacy//Maja/3/Doyce
10	10.1934	6	Food	Fridericus x Maja/Legacy//Maja/3/Doyce
11	10.1985	6	Food	Fridericus x Maja/Legacy//Maja/3/Doyce
12	10.1986	6	Food	Fridericus x Maja/Legacy//Maja/3/Doyce
13	10.2393	6	Food	Fridericus x Maja/Legacy//Maja/3/Doyce
14	10.0655	2	Food	KW2-849 x Luca/Waxbar/Luca8
15	10.0662	2	Food	KW2-849 x Luca/Waxbar/Luca8
16	10.0686	2	Food	KW2-849 x Luca/Waxbar/Luca8
17	Food 12	2	Food	FB2RYT 41, L/W/L-16-2
18	10.0964	2	Food	KW2-849 x Luca/Waxbar/Luca8
19	10.1119	6	Food	Fridericus x Maja/Legacy//Maja/3/Doyce
20	10.1135	6	Food	Fridericus x Maja/Legacy//Maja/3/Doyce
21	10.115	6	Food	Fridericus x Maja/Legacy//Maja/3/Doyce
22	Food 26	6	Food	FB6RYT 47, Maja/Legacy//Maja/3/Doyce
23	10.1492	6	Food	Fridericus x Maja/Legacy//Maja/3/Doyce
24	10.1618	6	Food	Fridericus x Maja/Legacy//Maja/3/Doyce
25	10.2006	6	Food	Fridericus x Maja/Legacy//Maja/3/Doyce
26	10.2021	6	Food	Fridericus x Maja/Legacy//Maja/3/Doyce
27	10.2464	6	Food	Fridericus x Maja/Legacy//Maja/3/Doyce

**Table 16. INUDFOOD YT MQ for Corvallis, OR in 2013-14 (Selections)**

(2013-14 International Food Barley Yield Trial)

Entry Name	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agtron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (°ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)
1 10.0656	2	42.6	97.2	31	85.3	1.6	1	12.3	<b>3.98</b>	<b>33.9</b>	<b>65</b>	47.6	*919	<b>144</b>
2 10.0691	2	41.1	94.0	35	84.3	1.4	1	12.1	<b>3.50</b>	<b>31.1</b>	<b>56</b>	41.6	*1148	<b>127</b>
3 10.0883	2	44.8	93.9	22	86.8	1.9	1	11.2	<b>3.90</b>	<b>37.3</b>	<b>68</b>	47.5	<b>721</b>	<b>140</b>
4 10.0969	2	41.3	94.5	27	85.3	2.0	1	11.6	<b>3.86</b>	<b>33.8</b>	<b>88</b>	38.0	<b>202</b>	<b>112</b>
5 10.1151	6	28.6	*51.1	41	81.8	*4.2	2	11.9	<b>3.72</b>	<b>32.5</b>	<b>100</b>	36.4	<b>398</b>	<b>120</b>
6 10.1154	6	33.7	87.5	31	84.1	*3.8	2	<b>10.6</b>	<b>3.54</b>	<b>35.9</b>	<b>100</b>	44.3	<b>346</b>	<b>112</b>
7 10.1328	6	32.7	80.8	27	83.7	<b>3.2</b>	1	<b>10.1</b>	<b>3.86</b>	<b>39.8</b>	<b>83</b>	39.4	<b>664</b>	<b>130</b>
8 10.1332	6	29.2	72.8	29	80.5	*4.3	1	<b>10.7</b>	<b>3.55</b>	<b>35.3</b>	<b>97</b>	38.2	<b>691</b>	<b>124</b>
9 10.1661	6	29.8	*65.8	23	85.3	<b>3.2</b>	2	<b>9.9</b>	<b>3.17</b>	<b>34.9</b>	<b>94</b>	<b>30.5</b>	<b>493</b>	<b>92</b>
10 10.1934	6	36.5	95.6	42	81.2	n.d.	3	11.8	<b>3.78</b>	<b>33.7</b>	<b>110</b>	36.4	<b>451</b>	<b>135</b>
11 10.1985	6	29.4	77.6	40	81.8	*5.1	2	<b>10.6</b>	<b>3.20</b>	<b>30.9</b>	<b>58</b>	<b>28.1</b>	<b>756</b>	<b>94</b>
12 10.1986	6	33.4	81.3	35	82.1	<b>3.1</b>	2	<b>10.9</b>	<b>3.39</b>	<b>33.5</b>	<b>78</b>	<b>34.2</b>	<b>740</b>	<b>111</b>
13 10.2393	6	33.5	86.4	38	82.4	*4.1	2	<b>10.5</b>	<b>3.60</b>	<b>36.2</b>	<b>73</b>	<b>34.4</b>	<b>475</b>	<b>124</b>

**Table 17. INUDFOOD MP MQ for Corvallis, OR in 2014 - Winter Planted (Selections)**

(2014 International Food Barley Trial Mini Plots - Winter Planted)

Entry Name	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agrtron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (°ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)
1 10.0656	2	45.3	96.0	42	84.8	3.1	1	12.3	4.52	38.5	53	48.7	*926	158
2 10.0691	2	44.4	94.3	45	85.1	n.d.	3	11.3	3.51	32.8	45	44.3	*1071	111
3 10.0883	2	42.3	82.2	38	86.6	3.4	2	11.7	4.92	42.2	64	56.2	555	168
4 10.0969	2	50.4	94.5	36	85.2	1.9	1	11.6	4.62	42.0	83	41.3	349	144
5 10.1151	6	35.0	76.6	43	84.5	2.8	2	11.3	3.49	32.0	80	37.0	597	123
6 10.1154	6	34.7	84.1	45	84.3	2.2	1	11.6	3.81	35.2	95	52.4	485	125
8 10.1332	6	33.7	78.7	27	83.7	1.9	1	11.6	3.64	31.7	87	42.2	717	119
9 10.1661	6	29.4	*43.3	26	82.8	1.9	2	12.2	3.53	30.3	95	33.9	633	96
11 10.1985	6	31.1	70.9	30	81.5	2.2	2	12.3	3.56	29.1	71	25.7	807	100
13 10.2393	6	34.6	87.9	49	84.5	2.0	1	11.4	3.99	38.2	72	40.2	287	141
14 10.0655	2	49.8	98.2	49	82.9	1.3	1	12.9	3.49	27.4	36	30.4	*1119	105
15 10.0662	2	48.9	96.8	49	81.3	1.2	1	12.8	3.25	26.7	47	21.7	*1160	86
16 10.0686	2	42.0	82.0	37	82.2	1.7	1	13.5	3.82	30.0	54	29.8	*1095	134
17 Food 12	2	41.0	90.0	38	83.7	1.4	1	11.5	3.39	31.5	43	29.9	*1027	112
18 10.0964	2	49.5	95.6	34	85.8	1.6	1	12.2	4.43	39.3	93	40.9	210	155
19 10.1119	6	37.0	81.5	29	82.7	2.3	2	10.6	3.08	32.0	56	27.2	804	106
20 10.1135	6	36.0	77.8	11	84.9	2.5	2	10.6	3.24	32.5	86	38.4	687	110
21 10.115	6	35.4	67.9	39	86.3	1.7	1	10.7	3.38	33.9	88	41.4	225	125
22 Food 26	6	36.7	75.8	15	85.7	2.5	2	9.1	3.15	38.6	47	32.2	663	104
23 10.1492	6	33.9	78.8	44	84.0	1.8	1	10.5	3.49	34.2	78	38.5	619	130
24 10.1618	6	30.8	76.2	26	84.7	2.7	2	9.9	3.59	37.5	81	35.9	571	111
25 10.2006	6	33.3	*57.5	35	85.2	2.1	2	10.1	3.55	36.0	59	29.2	473	125
26 10.2021	6	30.2	*37.9	25	83.7	2.5	2	12.4	3.67	31.3	108	34.3	482	120
27 10.2464	6	32.8	68.9	41	83.9	2.3	2	11.0	3.53	35.1	73	33.7	431	126

## Table 18. EurO2R MQ Entry list and Pedigrees (Selections)

(2013-14 EurOregon 2-Row)

Entry	Name	Type	Use	Parentage
1	1-1	2	Food	Himalaya/3/Luca/Waxbar//Luca
2	1-4	2	Food	Himalaya/3/Luca/Waxbar//Luca
3	1-6	2	Food	Himalaya/3/Luca/Waxbar//Luca
8	4-4	2	Food	Himalaya/3/Luca/Waxbar//Luca
11	9	2	Food	Vanessa/3/Luca/Waxbar//Luca
12	11-3	2	Food	Wintmalt/3/Luca/Waxbar//Luca
16	DZ100289	2	Food	
17	Buck (09OR-86)	6	Food	



**Table 19. EurO2R MQ for Corvallis, OR in 2013-14 (Selections)**

(2013-14 EurOregon 2-Row)

Entry Name	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agtron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (°ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)
1 1-1	2	<b>37.3</b>	75.9	31	82.6	<b>2.9</b>	1	<b>10.9</b>	<b>3.72</b>	<b>35.4</b>	<b>62</b>	36.8	*868	<b>140</b>
2 1-4	2	39.0	70.5	30	84.9	2.0	1	11.0	4.27	41.9	<b>81</b>	59.4	<b>392</b>	<b>151</b>
3 1-6	2	<b>37.5</b>	68.2	23	84.6	<b>2.7</b>	1	11.3	4.24	<b>39.1</b>	<b>86</b>	60.5	<b>381</b>	<b>163</b>
8 4-4	2	38.8	74.7	35	84.0	<b>3.2</b>	1	<b>10.7</b>	4.09	40.7	<b>91</b>	50.9	<b>357</b>	<b>160</b>
11 9	2	<b>37.7</b>	88.1	35	86.6	2.3	1	11.3	<b>3.86</b>	<b>37.6</b>	107	42.1	<b>530</b>	<b>142</b>
12 11-3	2	<b>36.1</b>	69.8	29	86.1	2.4	1	<b>10.5</b>	<b>3.81</b>	<b>39.1</b>	<b>87</b>	43.9	<b>414</b>	<b>144</b>
16 DZ100289	2	<b>37.6</b>	88.6	37	86.6	1.4	1	12.1	4.42	<b>38.8</b>	156	58.9	<b>324</b>	<b>170</b>
17 Buck (09OR-86)	6	29.2	*54.1	23	84.9	2.6	2	<b>10.9</b>	<b>3.60</b>	<b>35.1</b>	<b>67</b>	<b>31.7</b>	<b>791</b>	<b>125</b>

**Table 20. Black Beaut MQ for Corvallis, OR in 2014 (Selections)**

<b>Entry</b>	<b>Name</b>	<b>Type</b>	<b>Use</b>	<b>Parentage</b>
5	14BB5	6	Food	CO61/Tamalpais
6	14BB6	6	Food	CO61/Tamalpais
13	14BB13	6	Food	CO61/Tamalpais
14	14BB14	6	Food	CO61/Tamalpais
17	14BB17	6	Food	CO61/Tamalpais
21	14BB21	6	Food	CO61/Tamalpais
23	14BB23	6	Food	CO61/Tamalpais
24	14BB24	6	Food	CO61/Tamalpais
25	14BB25	6	Food	CO61/Tamalpais
27	14BB27	6	Food	CO61/Tamalpais
28	14BB28	6	Food	CO61/Tamalpais

**Table 21. Black Beaut MQ for Corvallis, OR in 2014 (Selections)**

Entry Name	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agtron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (°ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)
5 14BB5	6	40.1	95.5	0	80.7	2.3	2	11.2	3.59	34.2	77	37.9	738	109
6 14BB6	6	39.8	95.8	0	81.8	2.3	2	12.5	3.81	31.2	74	38.4	727	128
13 14BB13	6	41.2	93.1	0	81.5	2.5	1	11.0	3.45	32.9	60	42.3	666	109
14 14BB14	6	40.8	94.7	0	83.1	2.5	1	11.4	3.61	31.9	76	39.8	659	125
17 14BB17	6	40.4	95.7	0	82.1	2.6	1	11.4	3.46	30.4	76	37.7	748	110
21 14BB21	6	38.9	93.0	0	81.6	1.8	1	10.8	3.18	30.3	60	34.7	757	97
23 14BB23	6	40.7	91.0	0	81.7	1.7	1	10.9	2.94	29.0	70	30.2	795	92
24 14BB24	6	40.4	93.8	0	83.2	1.8	1	11.3	3.69	34.3	70	40.9	717	127
25 14BB25	6	38.9	95.2	0	83.1	1.6	1	11.9	3.68	31.1	89	48.3	622	134
27 14BB27	6	40.4	95.7	0	83.0	1.7	1	11.2	3.34	30.2	63	40.6	733	113
28 14BB28	6	36.5	91.9	0	82.7	1.9	1	12.3	3.99	32.8	107	49.8	642	154