

# Barley Project Malting Quality Data 2012



Skagit Brewing - brewed from Alba. 2012 brew; 2011 crop.

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MQ Table 2012 malt quality data for Oregon State University barley

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## MQ Table 1. EW2RMr Entry list for 2011-12

(2011-12 European Winter Barley 2 Row Malting Trial Replicated)

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Entry	Name	Type	Use	Parentage
4	29642/2206	2	Malting	IPZ 25485 (Astrid*IPZ 12585)*Labea*Opal * ECK 2488
5	29660/2449	2	Malting	DH_PF 2773(Scylla) * Malwinta
6	29613/2591	2	Malting	sel.BC1 29455/5 (Artist x DH 758-7) x Carrero x Carrero
7	Violetta	2	Malting	Violetta
8	05-5401/01	2	Malting	05-5401/01
9	Famosa	2	Malting	Famosa

## MQ Table 2. EW2RMr for Corvallis, OR in 2011-12

(2011-12 European Winter 2-Row Malting Trial - Replicated)

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)	Quality Score
4 29642/2206	2	42.5	99.2	23	80.6	1.7	1	11.1	4.38	40.8	141	46.0	142	<b>170</b>	51
5 29660/2449	2	42.5	97.5	28	79.7	1.6	1	<b>10.5</b>	<b>4.00</b>	<b>39.1</b>	<b>95</b>	41.3	118	<b>137</b>	31
6 29613/2591	2	49.7	98.9	34	80.6	2.2	2	11.2	4.15	<b>37.9</b>	158	<b>36.5</b>	<b>273</b>	<b>141</b>	38
7 Violetta	2	42.7	99.1	26	80.9	1.7	1	11.6	4.77	43.4	202	54.9	149	187	61
8 05-5401/01	2	38.9	93.3	33	79.9	1.7	1	11.0	4.21	40.2	178	55.9	117	<b>158</b>	51
9 Famosa	2	42.6	95.1	32	<b>76.7</b>	2.5	2	11.2	<b>3.54</b>	<b>33.3</b>	137	<b>35.6</b>	<b>568</b>	<b>140</b>	28

## MQ Table 3. EW2RMu Entry list for 2011-12

(2011-12 European Winter Barley 2 Row Malting Trial Unreplicated)

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Entry	Name	Type	Use	Parentage
3	Charles	2	Malting	Bearpaw/81Ab1702
4	Finesse	2	Malting	
5	04/153/2	2	Malting	
6	05/141/27	2	Malting	
7	04/124/5	2	Malting	
8	04/028/36	2	Malting	
9	KWS Ariane	2	Malting	
10	KW 2 117	2	Malting	
11	Nectaria	2	Malting	
12	Mystic	2	Malting	
13	Boreale	2	Malting	
14	Salamandre	2	Malting	
15	Cassiopee	2	Malting	
16	2692/2024	2	Malting	WI 7*Regina*Regina*Regina
17	29635/2171	2	Malting	IPZ 25739 Carola*Opal* IPZ 25485 (Astrid*IPZ 12585)*Labea*Opal
18	29621/2619	2	Malting	sel.BC1 29458/6 (Artist x DH 758-2) x Carrero x Mombasa

## MQ Table 4. EW2RMu for Corvallis, OR in 2011-12

(2011-12 European Winter 2-Row Malting Trial - Unreplicated)

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)	Quality Score
3 Charles	2	<b>25.8</b>	*80.8	32	<b>76.6</b>	2.1	1	12.8	5.23	43.4	173	98.2	<b>291</b>	252	43
4 Finesse	2	39.6	96.9	36	<b>77.2</b>	1.8	1	11.1	<b>3.90</b>	<b>36.5</b>	<b>81</b>	43.6	<b>492</b>	190	26
5 04/153/2	2	41.4	93.8	26	79.6	n.d.	3	<b>10.8</b>	4.08	<b>39.6</b>	147	50.1	<b>151</b>	<b>180</b>	38
6 05/141/27	2	<b>32.9</b>	85.7	25	<b>75.5</b>	1.8	1	11.8	<b>3.77</b>	<b>34.5</b>	135	40.9	<b>428</b>	<b>158</b>	26
7 04/124/5	2	<b>36.4</b>	96.8	29	79.3	1.8	1	11.7	4.32	<b>39.7</b>	140	49.4	<b>203</b>	217	40
8 04/028/36	2	47.6	98.7	25	81.6	1.6	1	11.5	4.53	42.3	168	49.5	54	221	67
9 KWS Ariane	2	40.1	96.5	32	80.3	1.8	1	<b>10.4</b>	4.11	41.9	141	48.8	52	195	54
10 KW 2 117	2	<b>36.2</b>	92.5	22	80.4	1.9	1	<b>10.3</b>	<b>3.95</b>	41.2	137	52.2	30	186	48
11 Nectaria	2	42.5	95.5	29	80.7	1.6	1	11.4	4.61	42.0	177	63.5	<b>220</b>	220	60
12 Mystic	2	<b>37.1</b>	92.2	25	79.0	2.6	1	<b>10.8</b>	4.25	42.2	136	46.2	<b>249</b>	211	40
13 Boreale	2	38.7	90.4	25	79.1	1.5	1	12.4	4.51	<b>38.5</b>	183	58.0	<b>585</b>	202	49
14 Salamandre	2	41.3	94.7	24	80.1	1.4	1	11.9	4.30	<b>38.5</b>	149	57.8	<b>419</b>	206	50
15 Cassiopee	2	40.3	96.0	26	80.7	1.5	1	11.3	4.51	40.2	168	63.5	<b>295</b>	210	59
16 2692/2024	2	43.6	97.1	30	81.3	1.4	1	11.1	4.75	46.9	165	51.4	<b>272</b>	228	63
17 29635/2171	2	47.8	99.2	36	79.7	1.5	1	<b>10.9</b>	4.21	42.5	<b>99</b>	57.4	<b>520</b>	194	44
18 29621/2619	2	44.4	96.9	26	81.2	1.4	1	11.8	4.92	43.7	160	58.6	<b>254</b>	223	63

## MQ Table 5. Malt HRBIN Entry list for 2011-12

(2011-12 Malt Head Row Bulk Increase)

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Entry	Name	Type	Use	Parentage
3	10.0626	2	Malting	Wintmalt/Bari 2B08-3145
4	10.0627	2	Malting	Wintmalt/Bari 2B08-3145
14	10.0834	2	Malting	Wintmalt/Bari 2B08-3145
16	10.0736	2	Malting	Wintmalt/Bari 2B08-3149
18	10.0739	2	Malting	Wintmalt/Bari 2B08-3149
19	10.0740	2	Malting	Wintmalt/Bari 2B08-3149
23	10.0761	2	Malting	Wintmalt/Bari 2B08-3149
24	10.0764	2	Malting	Wintmalt/Bari 2B08-3149
26	10.0835	2	Malting	Wintmalt/Bari 2B08-3149
28	10.0844	2	Malting	Wintmalt/Bari 2B08-3149
30	10.0777	2	Malting	Wintmalt/Charles
31	10.0782	2	Malting	Wintmalt/Charles
32	10.0787	2	Malting	Wintmalt/Charles
33	10.0791	2	Malting	Wintmalt/Charles
34	10.0849	2	Malting	Wintmalt/Charles
36	10.0852	2	Malting	Wintmalt/Charles
37	10.0856	2	Malting	Wintmalt/Charles
38	10.0860	2	Malting	Wintmalt/Charles

## MQ Table 6. Malt HRBIN for Corvallis, OR in 2011-12

(2011-12 Malt Head Row Bulk Increase)

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)	Quality Score
3 10.0626	2	<b>37.9</b>	95.6	26	80.7	2.1	1	<b>10.7</b>	4.04	<b>39.5</b>	120	68.0	<b>270</b>	185	39
4 10.0627	2	<b>35.6</b>	92.6	33	82.6	2.5	1	<b>9.7</b>	5.20	<b>58.2</b>	117	108.6	39	288	52
14 10.0834	2	39.6	95.1	26	82.2	1.6	1	<b>10.1</b>	4.45	<b>48.7</b>	116	62.7	37	219	54
16 10.0736	2	<b>37.6</b>	97.1	31	80.9	2.4	1	<b>9.4</b>	4.42	<b>49.8</b>	117	64.1	28	221	49
18 10.0739	2	44.1	96.3	26	82.6	2.4	1	<b>8.9</b>	4.98	<b>58.1</b>	106	99.1	42	276	57
19 10.0740	2	43.4	97.7	22	82.8	2.0	1	<b>9.4</b>	5.21	<b>60.1</b>	106	99.4	85	286	57
23 10.0761	2	40.4	96.8	28	82.3	2.4	1	<b>8.9</b>	4.98	<b>61.1</b>	<b>75</b>	98.0	30	279	52
24 10.0764	2	<b>34.9</b>	96.7	25	83.7	2.2	1	<b>8.4</b>	4.67	<b>60.7</b>	105	109.1	23	246	52
26 10.0835	2	40.7	96.6	23	82.2	2.1	1	<b>9.8</b>	4.61	<b>51.5</b>	120	70.6	36	237	56
28 10.0844	2	41.0	95.2	28	83.8	2.3	1	<b>9.3</b>	4.95	<b>59.2</b>	113	93.7	55	282	56
30 10.0777	2	38.2	96.6	27	83.3	2.4	1	<b>9.5</b>	5.22	<b>60.2</b>	116	122.3	21	294	54
31 10.0782	2	<b>36.2</b>	96.1	33	81.8	2.2	1	<b>10.1</b>	5.26	<b>55.9</b>	126	100.7	71	272	55
32 10.0787	2	<b>37.5</b>	97.1	27	81.4	1.3	1	<b>9.7</b>	<b>3.91</b>	42.6	115	53.3	123	<b>178</b>	41
33 10.0791	2	41.2	97.4	33	81.2	1.6	1	<b>9.5</b>	4.17	<b>48.8</b>	<b>89</b>	59.1	<b>256</b>	191	41
34 10.0849	2	<b>35.4</b>	95.7	35	82.2	1.6	1	<b>9.5</b>	4.16	<b>48.8</b>	113	74.8	62	198	48
36 10.0852	2	38.4	96.6	39	81.7	1.7	1	<b>10.2</b>	5.15	<b>54.6</b>	122	109.6	107	289	53
37 10.0856	2	41.5	98.0	34	84.0	1.7	1	<b>9.9</b>	4.90	<b>54.1</b>	150	82.6	38	225	59
38 10.0860	2	40.2	98.1	37	83.0	2.0	1	<b>10.7</b>	5.11	<b>52.7</b>	126	92.5	79	241	59



## MQ Table 7. Malt DH SR Entry list for 2011-12

(2011-12 Malt Double Haploid Single Rows)

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Entry	Name	Type	Use	Parentage
1	10.1716	2	Malting	Wintmalt/Bari 2B08-3149
3	10.1728	2	Malting	Wintmalt/Bari 2B08-3149
7	10.1734	2	Malting	Wintmalt/Charles
9	10.1736	2	Malting	Wintmalt/Charles
12	10.2048	2	Malting	Wintmalt/Bari 3140
13	10.2049	2	Malting	Wintmalt/Bari 3140

## MQ Table 8. Malt DH SR for Corvallis, OR in 2011-12

(2011-12 Malt Double Haploid 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)	Quality Score
1 10.1716	2	40.5	94.2	38	81.0	2.8	1	11.3	5.64	*53.6	135	*90.5	97	*258	60
3 10.1728	2	38.7	97.0	30	79.1	<b>3.3</b>	1	11.7	4.14	<b>37.6</b>	148	48.1	112	<b>150</b>	40
7 10.1734	2	45.4	99.2	41	79.6	1.5	1	<b>10.5</b>	<b>3.69</b>	<b>36.8</b>	106	51.3	<b>261</b>	<b>129</b>	35
9 10.1736	2	45.8	98.2	31	78.7	1.9	1	*14.2	4.98	<b>36.7</b>	214	62.9	<b>233</b>	<b>179</b>	37
12 10.2048	2	41.7	98.9	29	81.0	2.0	1	11.6	5.28	<b>48.8</b>	151	*99.5	<b>196</b>	201	54
13 10.2049	2	45.3	98.6	34	79.9	1.7	1	<b>10.8</b>	4.14	40.4	155	63.1	<b>166</b>	<b>146</b>	46

## MQ Table 9. TCAP NUE High Entry list for 2011-12

(2011-12 TCAP Nitrogen Use Efficiency High Nitrogen)

Entry	Name	Type	Use	Parentage
TC6W-001	OR76	6	Malting	STAB 47/KAB 51
TC6W-002	OR77	6	Feed	Strider/Orca
TC6W-003	OR813	6	Malting	Stab 47/Kab51
TC6W-004	OR815	6	Malting	CC99B
TC6W-005	OR816	6	Malting	CC99B
TC6W-006	OR818	6	Malting	Bu 27/Stab 47/3/Maja/Stab 47
TC6W-007	Maja	6	Malting	Bu27/Stab 47/3/Maja/Stab 47
TC6W-008	OR91	6	Malting	Bu27/Stab 47/3/Maja/Stab 47
TC6W-009	OR92	6	Malting	Bu27/Stab 47/3/Maja/Stab 47
TC6W-010	OR97	6	Malting	Bu27/Stab 47/3/Maja/Stab 47
TC6W-011	OR98	6	Malting	Bu27/Stab 47/3/Maja/Stab 47
TC6W-012	OR910	6	Malting	Kab51/Excel//Maja//Stab7/Maja
TC6W-013	OR915	6	Malting	StabBC 42///Kab 51/Legacy//Kab 51
TC6W-014	OR101	6	Malting	StabBC 42/Stab 7
TC6W-015	OR102	6	Malting	StabBC 42/3/Kab51/Legacy//Kab51
TC6W-016	OR103	6	Malting	StabBC 50/Maja
TC6W-017	OR104	6	Malting	StabBC 50/Maja
TC6W-018	OR105	6	Malting	StabBC 50/Maja
TC6W-019	OR106	6	Malting	J2//Maja/Kab 47
TC6W-020	OR107	6	Malting	J2/Maja
TC6W-021	OR108	6	Malting	J2/Maja
TC6W-022	OR109	6	Malting	StabBC 42/Stab 7
TC6W-023	OR110	6	Malting	StabBC 42/3/Kab51/Legacy//Kab51
TC6W-024	OR111	6	Malting	StabBC 50/Maja
TC6W-025	OR112	6	Malting	StabBC 50/Maja
TC6W-026	OR113	6	Malting	Strider/3/Maja/Legacy//Maja
TC6W-027	OR114	6	Malting	NB3437f/OR71
TC6W-028	Strider	6	Feed	NB3437f/OR72
TC6W-029	Eight-Twelve	6	Malting	NB3437f/OR76
TC6W-030	OBADV11-2	6	Malting	NB3437f/OR71
TC6W-031	OBADV11-6	6	Malting	NB3437f/OR71
TC6W-032	OBADV11-13	6	Malting	NB3437f/OR71
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	P713/OR71
TC6W-037	OBADV11-30	6	Malting	P713/OR71
TC6W-038	OBADV11-31	6	Malting	P713/OR71
TC6W-039	PO71DH-84	6	Malting	P713/OR71
TC6W-040	PO71DH-87	6	Malting	P713/OR71
TC6W-041	PO71DH-94	6	Malting	Maja/Legacy//Maja/3/Kab 47
TC6W-042	PO71DH-104	6	Malting	StabBC 50/Maja
TC6W-043	PO71DH-111	6	Malting	StabBC 42//Bu 37/Maja
TC6W-044	PYT211-6	6	Malting	StabBC 42-3-4//Bu 37/Maja
TC6W-045	PYT211-10	6	Malting	StabBC 42//Bu 37/Maja
TC6W-046	2011-F5-2-1	6	Malting	StabBC 42//Bu 37/Maja
TC6W-047	2011-F5-3-1	6	Malting	StabBC 42//Bu 37/Maja
TC6W-048	2011-F5-3-2	6	Malting	StabBC 42//Bu 37/Maja

TC6W-049	2011-F5-4-1	6	Malting	StabBC 42//Bu 37/Maja
TC6W-050	2011-F5-4-2	6	Malting	StabBC 42//Bu 37/Maja
TC6W-051	2011-F5-5-1	6	Malting	StabBC 42//Bu 37/Maja
TC6W-052	2011-F5-7-1	6	Malting	StabBC 50/Maja
TC6W-053	2011-F5-7-3	6	Malting	StabBC 50/Maja
TC6W-054	2011-F5-7-4	6	Malting	StabBC 50//Bu 37/Maja
TC6W-055	2011-F5-8-2	6	Malting	StabBC 50//Bu 37/Maja
TC6W-056	2011-F5-8-3	6	Malting	StabBC 42//Bu 37/Maja
TC6W-057	2011-F5-9-2	6	Malting	StabBC 42//Bu 37/Maja
TC6W-058	2011-F5-9-3	6	Malting	StabBC 42//Bu 37/Maja
TC6W-059	2011-F5-16-1	6	Malting	StabBC 42//Bu 37/Maja
TC6W-060	2011-F5-16-2	6	Malting	StabBC 42//Bu 37/Maja
TC6W-061	2011-F5-16-3	6	Malting	StabBC 42//Bu 37/Maja
TC6W-062	2011-F5-16-4	6	Malting	StabBC 42//Bu 37/Maja
TC6W-063	2011-F5-17-1	6	Malting	StabBC 42//Bu 37/Maja
TC6W-064	2011-F5-22-1	6	Malting	StabBC 42//Bu 37/Maja
TC6W-065	2011-F5-22-3	6	Malting	StabBC 42//Bu 37/Maja
TC6W-066	2011-F5-23-1	6	Malting	StabBC 42//Bu 37/Maja
TC6W-067	2011-F5-24-1	6	Malting	StabBC 42//Bu 37/Maja
TC6W-068	2011-F5-25-1	6	Malting	StabBC 42//Bu 37/Maja
TC6W-069	2011-F5-25-2	6	Malting	StabBC 42//Bu 37/Maja
TC6W-070	2011-F5-27-1	6	Malting	StabBC 50/Maja
TC6W-071	2011-F5-27-2	6	Malting	StabBC 50//Bu 37/Maja
TC6W-072	2011-F5-27-3	6	Malting	UTWB940119/StabBC 50
TC6W-073	2011-F5-29-1	6	Malting	UTWB940119/StabBC 50
TC6W-074	2011-F5-32-1	6	Malting	UTWB940119/J1
TC6W-075	2011-F5-35-1	6	Malting	UTWB940119/J1
TC6W-076	2011-F5-35-2	6	Malting	UTWB940119/J1
TC6W-077	2011-F5-36-1	6	Malting	UTWB940119/J1
TC6W-078	2011-F5-36-2	6	Malting	UTWB940119/J1
TC6W-079	2011-F5-36-3	6	Malting	UTWB940119/J1
TC6W-080	2011-F5-37-1	6	Malting	UTWB940119/J1
TC6W-081	2011-F5-37-2	6	Malting	UTWB940119/J1
TC6W-082	2011-F5-37-3	6	Malting	StabBC 42//Bu 37/Maja
TC6W-083	2011-F5-37-4	6	Malting	StabBC 42//Bu 37/Maja
TC6W-084	2011-F5-37-5	6	Malting	StabBC 42//Bu 37/Maja
TC6W-085	2011-F5-47-1	6	Malting	StabBC 42//Bu 37/Maja
TC6W-086	2011-F5-47-2	6	Malting	StabBC 42//Bu 37/Maja
TC6W-087	2011-F5-47-3	6	Malting	StabBC 42//Bu 37/Maja
TC6W-088	2011-F5-48-1	6	Malting	StabBC 42/Maja
TC6W-089	2011-F5-49-1	6	Malting	StabBC 50/Maja
TC6W-090	2011-F5-50-1	6	Malting	StabBC 50/Maja
TC6W-091	2011-F5-52-1	6	Malting	UTWB940119/J1
TC6W-092	2011-F5-52-2	6	Malting	UTWB940119/J1
TC6W-093	2011-F5-52-3	6	Malting	Stab 47/Kab 51//StabBC 42
TC6W-094	2011-F5-55-1	6	Malting	Stab 47/Kab 51//StabBC 42
TC6W-095	2011-F5-55-2	6	Malting	Stab 47/Kab 51//StabBC 42
TC6W-096	2011-F5-56-1	6	Malting	Stab 47/Kab 51//StabBC 42
TC6W-097	2011-F5-56-3	6	Malting	Stab 47/Kab 51//StabBC
TC6W-098	2011-F5-57-2	6	Malting	Stab 47/Kab 51//StabBC 42
TC6W-099	2011-F5-58-1	6	Malting	StabBC 182//Stab 47/Kab 51
TC6W-100	2011-F5-59-1	6	Malting	StabBC 182//Stab 47/Kab 51
TC6W-101	2011-F5-59-2	6	Malting	J1//Stab 47/Excel//Stab 47
TC6W-102	2011-F5-60-1	6	Malting	J2//Stab 47/Excel//Stab 47

TC6W-103	2011-F5-60-2	6	Malting	StabBC 42//Bu 37/Maja
TC6W-104	2011-F5-63-1	6	Malting	Kab 51/Excel//Maja/3/Stab 7/Maja
TC6W-105	2011-F5-63-2	6	Malting	Kab 51/Excel//Maja/3/Stab 7/Maja
TC6W-106	2011-F5-64-1	6	Malting	UTWB940119/StabBC 50
TC6W-107	2011-F5-66-2	6	Malting	UTWB940119/StabBC 50
TC6W-108	2011-F5-66-3	6	Malting	UTWB940119/StabBC 50
TC6W-109	2011-F5-72-1	6	Malting	UTWB940119/StabBC 50
TC6W-110	2011-F5-72-2	6	Malting	Stab 47/Kab 51//StabBC 42
TC6W-111	2011-F5-72-3	6	Malting	Stab 47/Kab 51//StabBC 42
TC6W-112	2011-F5-72-4	6	Malting	Stab 47/Kab 51//StabBC 42
TC6W-113	2011-F5-75-1	6	Malting	Stab 47/Kab 51//StabBC 42
TC6W-114	2011-F5-76-1	6	Malting	Stab 47/Kab 51//StabBC 42
TC6W-115	2011-F5-76-2	6	Malting	Stab 47/Kab 51//StabBC 50
TC6W-116	2011-F5-76-3	6	Malting	StabBC 42//Stab 47/Kab 51
TC6W-117	2011-F5-76-4	6	Malting	StabBC 182//Stab 47/Kab 51
TC6W-118	2011-F5-79-1	6	Malting	StabBC 182//Stab 47/Kab 51
TC6W-119	2011-F5-83-1	6	Malting	StabBC 182//Stab 47/Kab 51
TC6W-120	2011-F5-84-1	6	Malting	StabBC 182//Stab 47/Kab 51
TC6W-121	2011-F5-84-2	6	Malting	StabBC 182//Stab 47/Kab 51
TC6W-122	2011-F5-85-1	6	Malting	StabBC 182//Stab 47/Kab 51
TC6W-123	2011-F5-85-2	6	Malting	StabBC 182//Stab 47/Kab 51
TC6W-124	2011-F5-86-1	6	Malting	StabBC 182//Stab 47/Kab 51
TC6W-125	2011-F5-86-2	6	Malting	StabBC 182//Stab 47/Kab 51
TC6W-126	2011-F5-87-1	6	Malting	StabBC 182//Stab 47/Kab 51
TC6W-127	2011-F5-88-1	6	Malting	StabBC 182///Kab 47/Excel//Stab 47/Excel
TC6W-128	2011-F5-88-2	6	Malting	StabBC 182///Kab 47/Excel//Stab 47/Excel
TC6W-129	2011-F5-88-3	6	Malting	StabBC 182///Kab 47/Excel//Stab 47/Excel
TC6W-130	2011-F5-90-4	6	Malting	StabBC ///Kab 47/Excel//Stab 47/Excel
TC6W-131	2011-F5-90-5	6	Malting	J2///Kab 51/Excel//Kab 51
TC6W-132	2011-F5-91-1	6	Malting	J1///Kab 51/Excel//Kab 51
TC6W-133	2011-F5-91-2	6	Malting	J1///Stab 47/Excel//StabBC 42
TC6W-134	2011-F5-93-1	6	Malting	J1///Stab 47/Excel//StabBC 42
TC6W-135	2011-F5-94-1	6	Malting	J2///Stab 47/Excel//Stab 47
TC6W-136	2011-F5-95-1	6	Malting	J2///Stab 47/Excel//Stab 47
TC6W-137	2011-F5-96-1	6	Malting	J1///Stab 47/Excel//StabBC 42
TC6W-138	2011-F5-96-2	6	Malting	J1///Stab 47/Excel//StabBC
TC6W-139	2011-F5-96-3	6	Malting	J1///Stab 47/Excel//Stab 47
TC6W-140	2011-F5-96-4	6	Malting	Stab 47/Kab 51//StabBC 42
TC6W-141	2011-F5-97-1	6	Malting	Stab 47/Kab 51//StabBC 42
TC6W-142	2011-F5-99-1	6	Malting	Stab 47/Kab 51//StabBC 42
TC6W-143	2011-F5-105-1	6	Malting	Stab 47/Kab 51//StabBC 42
TC6W-144	2011-F5-105-2	6	Malting	Stab 47/Kab 51//StabBC 42
TC6W-145	2011-F5-105-3	6	Malting	Stab 47/Kab 51//StabBC 42
TC6W-146	2011-F5-105-4	6	Malting	Stab 47/Kab 51//StabBC 42
TC6W-147	2011-F5-106-1	6	Malting	Stab 47/Kab 51//StabBC 42
TC6W-148	2011-F5-106-2	6	Malting	Stab 47/Kab 51//StabBC 42
TC6W-149	2011-F5-107-2	6	Malting	Stab 47/Kab 51//StabBC 42
TC6W-150	2011-F5-108-1	6	Malting	Stab 47/Kab 51//StabBC 42
TC6W-151	2011-F5-109-1	6	Malting	Stab 47/Kab 51//StabBC 42
TC6W-152	2011-F5-109-2	6	Malting	Stab 47/Kab 51//StabBC 42-14
TC6W-153	2011-F5-109-3	6	Malting	Stab 47/Kab 51//StabBC 42
TC6W-154	2011-F5-110-1	6	Malting	Stab 47/Kab 51//StabBC 42
TC6W-155	2011-F5-112-1	6	Malting	Stab 47/Kab 51//StabBC 50
TC6W-156	2011-F5-112-2	6	Malting	Stab 47/Kab 51//StabBC 50

TC6W-157	2011-F5-112-3	6	Malting	Stab 47/Kab 51//StabBC 50
TC6W-158	2011-F5-113-1	6	Malting	Stab 47/Kab 51//StabBC 50
TC6W-159	2011-F5-113-2	6	Malting	Stab 47/Kab 51//StabBC 42
TC6W-160	2011-F5-113-3	6	Malting	Stab 47/Kab 51//StabBC 42
TC6W-161	2011-F5-115-1	6	Malting	Stab 47/Kab 51//StabBC 42-4
TC6W-162	2011-F5-118-1	6	Malting	Stab 47/Kab 51//StabBC 42
TC6W-163	2011-F5-119-1	6	Malting	Stab 47/Kab 51//StabBC 42
TC6W-164	2011-F5-119-2	6	Malting	Stab 47/Kab 51//StabBC 42
TC6W-165	2011-F5-120-1	6	Malting	Stab 47/Kab 51//StabBC 42
TC6W-166	2011-F5-120-2	6	Malting	Stab 47/Kab 51//StabBC
TC6W-167	2011-F5-120-3	6	Malting	Stab 47/Kab 51//StabBC 42
TC6W-168	2011-F5-121-1	6	Malting	Stab 47/Kab 51//StabBC
TC6W-169	2011-F5-121-2	6	Malting	Stab 47/Kab 51//StabBC 42
TC6W-170	2011-F5-121-3	6	Malting	Stab 47/Kab 51//J1
TC6W-171	2011-F5-121-4	6	Malting	Stab 47/Kab 51//J1
TC6W-172	2011-F5-121-5	6	Malting	Stab 47/Kab 51//J1
TC6W-173	2011-F5-122-1	6	Malting	StabBC 182//Stab 47/Kab 51
TC6W-174	2011-F5-123-1	6	Malting	StabBC 182//Stab 47/Kab 51
TC6W-175	2011-F5-124-1	6	Malting	StabBC 182///K47/Excel//Stab 47/Excel
TC6W-176	2011-F5-126-1	6	Malting	StabBC 42//Stab 47/Kab 51
TC6W-177	2011-F5-126-2	6	Malting	StabBC 42//Bu 37/Maja
TC6W-178	2011-F5-129-1	6	Malting	J1///Kab 51/Excel//Kab 51
TC6W-179	2011-F5-131-1	6	Malting	J1///Kab 51/Excel//Kab 51
TC6W-180	2011-F5-132-1	6	Malting	J2///Kab 51/Excel//Kab 51
TC6W-181	2011-F5-134-1	6	Malting	J1///Stab 47/Excel//StabBC 42
TC6W-182	2011-F5-134-2	6	Malting	J1///Stab 47/Excel//StabBC
TC6W-183	2011-F5-134-3	6	Malting	J2///Stab 47/Excel//Stab 47
TC6W-184	2011-F5-135-1	6	Malting	J1///Stab 47/Excel//StabBC 42
TC6W-185	2011-F5-135-2	6	Malting	UTWB940119/J1
TC6W-186	2011-F5-135-3	6	Malting	StabBC 50/Maja
TC6W-187	2011-F5-135-4	6	Malting	StabBC 50/Maja
TC6W-188	2011-F5-136-1	6	Malting	StabBC 50/Maja
TC6W-189	2011-F5-140-1	6	Malting	StabBC 50/Maja
TC6W-190	2011-F5-140-2	6	Malting	StabBC 50/Maja
TC6W-191	2011-F5-141-1	6	Malting	Stab 47/Kab 51
TC6W-192	2011-F5-141-3	6	Malting	Maja/Kab 50
TC6W-193	2011-F5-141-5	6	Malting	Maja/Kab 50
TC6W-194	06OR-9	6	Malting	Stab 47/Kab 51
TC6W-195	06OR-10	6	Malting	Stab 47/Kab 51
TC6W-196	06OR-20	6	Malting	Stab 47/Excel
TC6W-197	06OR-22	6	Malting	Stab 47/Kab 51
TC6W-198	06OR-37	6	Malting	StabBC 42
TC6W-199	06OR-38	6	Malting	Stab 7/Kab 41
TC6W-200	06OR-40	6	Malting	Stab 47/Kab 51
TC6W-201	06OR-41	6	Malting	StabBC 42
TC6W-202	06OR-42	6	Malting	Stab 47/Kab 51
TC6W-203	06OR-43	6	Malting	Maja/Kab 50
TC6W-204	06OR-44	6	Malting	Stab 7
TC6W-205	06OR-45	6	Malting	Stab 47/Excel//Stab 47
TC6W-206	06OR-46	6	Malting	Stab 47/Excel//Stab 47
TC6W-207	06OR-47	6	Malting	Kab51/Excel//Kab51
TC6W-208	06OR-51	6	Malting	Kab51/Excel//Stab 47/Excel
TC6W-209	06OR-52	6	Malting	Kab51/Excel//Stab 47/Excel
TC6W-210	06OR-57	6	Malting	Kold/88Ab536

TC6W-211	06OR-58	6	Malting	Stab 47/Excel//Stab 47
TC6W-212	06OR-59	6	Malting	Kab51/Legacy//Kab51
TC6W-213	06OR-62	6	Malting	Stab 47/Excel//Stab 47
TC6W-214	06OR-75	6	Malting	Kab51/Excel//Kab51
TC6W-215	06OR-76	6	Malting	Stab 47/Excel//Stab 47
TC6W-216	06OR-78	6	Malting	Stab 47/Excel//Stab 47
TC6W-217	06OR-79	6	Malting	Bu 27/Stab 47/3/Maja/Stab 47
TC6W-218	06OR-87	6	Malting	Bu 27/Stab 47/3/Maja/Stab 47
TC6W-219	06OR-91	6	Malting	Bu 27/Stab 47/3/Maja/StabBC 42
TC6W-220	06OR-95	6	Malting	Bu 27/Stab 47/3/Maja/StabBC 42
TC6W-221	07OR-3	6	Malting	Bu 27/Stab 47/3/Maja/StabBC 42
TC6W-222	07OR-4	6	Malting	Bu 27/Stab 47/3/Maja/StabBC
TC6W-223	07OR-5	6	Malting	Bu 27/Stab 47/3/Maja/StabBC 42
TC6W-224	07OR-6	6	Malting	Stab 47/Kab 51
TC6W-225	07OR-7	6	Malting	Maja/Kab 50//Kab 37
TC6W-226	07OR-8	6	Malting	Maja/Kab 50//Maja
TC6W-227	07OR-9	6	Malting	CC99A
TC6W-228	07OR-21	6	Malting	CC99A
TC6W-229	07OR-55	6	Malting	CC99A
TC6W-230	07OR-57	6	Malting	CC99A
TC6W-231	07OR-58	6	Malting	CC99A
TC6W-232	07OR-59	6	Malting	CC99A
TC6W-233	07OR-62	6	Malting	StabBC 42/Stab 7
TC6W-234	07OR-63	6	Malting	StabBC 42//Kab 51/Legacy//Kab 51
TC6W-235	07OR-64	6	Malting	StabBC 42/3/Kab 51/Legacy//Kab 51
TC6W-236	07OR-65	6	Malting	StabBC 42/3/Kab 51/Legacy//Kab 51
TC6W-237	08OR-30	6	Malting	StabBC 42/3/Kab 51/Legacy//Kab 51
TC6W-238	08OR-40	6	Malting	StabBC 42/3/Kab 51/Legacy//Kab 51
TC6W-239	08OR-41	6	Malting	J2//Maja/Kab 47
TC6W-240	08OR-44	6	Malting	StabBC 50/Maja
TC6W-241	08OR-45	6	Malting	StabBC 50/Maja
TC6W-242	08OR-46	6	Malting	StabBC 50/Maja
TC6W-243	08OR-47	6	Malting	StabBC 50/Maja
TC6W-244	08OR-48	6	Malting	StabBC 50/Maja
TC6W-245	08OR-49	6	Malting	StabBC 50/Maja
TC6W-246	08OR-50	6	Malting	StabBC 50//Maja/K47
TC6W-247	08OR-52	6	Malting	Strider/3/Maja/Legacy//Maja
TC6W-248	08OR-53	6	Malting	Maja/L//Maja/3/Kab 47
TC6W-249	08OR-54	6	Malting	Kab 51/Excel//Maja/3/J2
TC6W-250	08OR-56	6	Malting	Maja/Legacy//Maja//Stab 7/Kab 43
TC6W-251	08OR-58	6	Malting	Maja/Legacy//Maja/3/Stab 7/Kab 43
TC6W-252	08OR-69	6	Malting	Maja/L//Maja/3/Stab 47/Kab 51
TC6W-253	08OR-73	6	Malting	Maja/Legacy//Maja/3/Doyce
TC6W-254	08OR-79	6	Malting	Bu 27/Stab 47/3/Maja/Stab 47
TC6W-255	08OR-80	6	Malting	Bu 27/Stab 47/3/Maja/Stab 47
TC6W-256	08OR-81	6	Malting	Bu 27/Stab 47//Maja/Stab 47
TC6W-257	08OR-96	6	Malting	Bu 27/Stab 47//Maja/Stab 47
TC6W-258	2011-Short-8	6	Malting	Bu 27/Stab 47/3/Maja/Stab 47
TC6W-259	2011-Short-9	6	Malting	Bu 27/Stab 47/3/Maja/Stab 47
TC6W-260	2011-Short-11	6	Malting	Bu 27/Stab 47/3/Maja/Stab 47
TC6W-261	2011-Short-12	6	Malting	Bu 27/Stab 47/3/Maja/Stab 47
TC6W-262	2011-Short-13	6	Malting	TAMBAR 501 / M115//M115
TC6W-263	2011-Short-14	6	Malting	TAMBAR 501 / M115//M115
TC6W-264	2011-Short-15	6	Malting	TAMBAR 501 / M115//M115

TC6W-265	2011-Short-16	6	Malting	TAMBAR 501 / M115/M115
TC6W-266	MW10S4116-001	6	Malting	TAMBAR 501 / M115/M115
TC6W-267	MW10S4116-002	6	Malting	NB99845 / M115/M115
TC6W-268	MW10S4116-003	6	Malting	NB99845 / M115/M115
TC6W-269	MW10S4116-004	6	Malting	NB99845 / M115/M115
TC6W-270	MW10S4116-005	6	Malting	NB99845 / M115/M115
TC6W-271	MW10S4118-001	6	Malting	NB99845 / M115/M115
TC6W-272	MW10S4118-002	6	Malting	NB99845 / M115/M115
TC6W-273	MW10S4118-003	6	Malting	88ab536 /Rasmusson//Rasmusson
TC6W-274	MW10S4118-004	6	Malting	88ab536 /Rasmusson//Rasmusson
TC6W-275	MW10S4118-005	6	Malting	88ab536 /Rasmusson//Rasmusson
TC6W-276	MW10S4118-006	6	Malting	88ab536 /Rasmusson//Rasmusson
TC6W-277	MW10S4120-001	6	Malting	88ab536 /Rasmusson//Rasmusson
TC6W-278	MW10S4120-002	6	Malting	88ab536 /Rasmusson//Rasmusson
TC6W-279	MW10S4120-003	6	Malting	88ab536 /Rasmusson//Rasmusson
TC6W-280	MW10S4120-004	6	Malting	88ab536 /Rasmusson//Rasmusson
TC6W-281	MW10S4120-005	6	Malting	88ab536/M115//M115
TC6W-282	MW10S4120-006	6	Malting	88ab536/M115//M115
TC6W-283	MW10S4120-007	6	Malting	88ab536/M115//M115
TC6W-284	MW10S4120-008	6	Malting	88ab536/M115//M115
TC6W-285	MW10S4122-001	6	Malting	88ab536/M115//M115
TC6W-286	MW10S4122-002	6	Malting	88ab536/M115//M115
TC6W-287	MW10S4122-003	6	Malting	88ab536/M115//M115
TC6W-288	MW10S4122-004	6	Malting	88ab536/M115//M115
TC6W-289	MW10S4122-005	6	Malting	TAMBAR 501 / FEG188-02
TC6W-290	MW10S4122-006	6	Malting	TAMBAR 501 / FEG188-02
TC6W-291	MW10S4122-007	6	Malting	NB99845 / M115
TC6W-292	MW10S4122-008	6	Malting	NB99845 / M115
TC6W-293	MW09S4076-001	6	Malting	88ab536 / Rasmusson
TC6W-294	MW09S4076-002	6	Malting	OR72 / FEG183-28
TC6W-295	MW09S4078-001	6	Malting	OR76 / M115
TC6W-296	MW09S4078-002	6	Malting	OR76 / Quest
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)



## MQ Table 10. TCAP NUE High for Corvallis, OR in 2011-12

(2011-12 TCAP Nitrogen Use Efficiency High Nitrogen)

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)	Quality Score
TC6W-001 OR76	6	38.9	98.7	41	80.4	1.2	1	10.6	4.46	44.4	81	63.9	479	147	39
TC6W-002 OR77	6	41.1	96.7	47	79.6	1.0	1	10.1	4.01	40.8	81	51.6	683	121	34
TC6W-003 OR813	6	37.5	97.9	38	80.2	1.3	1	11.8	4.78	42.6	100	69.0	488	167	44
TC6W-004 OR815	6	38.6	96.6	36	80.6	1.2	1	11.2	4.51	40.5	101	60.1	622	151	34
TC6W-005 OR816	6	34.9	96.8	35	81.7	1.2	1	10.6	4.27	41.5	106	50.7	544	147	34
TC6W-006 OR818	6	36.3	96.6	25	81.2	1.4	1	11.3	5.26	47.9	129	81.5	524	194	48
TC6W-007 Maja	6	27.9	*78.9	35	77.8	1.4	1	12.2	5.05	43.0	180	72.1	262	187	41
TC6W-008 OR91	6	35.4	97.4	30	81.3	2.1	1	11.1	5.15	47.8	136	86.9	436	246	46
TC6W-009 OR92	6	34.8	98.0	32	81.4	2.1	1	10.9	4.96	47.1	132	92.3	317	259	46
TC6W-010 OR97	6	34.7	96.8	30	81.3	2.1	1	11.2	5.12	48.1	133	81.5	478	256	46
TC6W-011 OR98	6	35.1	96.3	19	81.4	2.1	1	11.8	5.31	45.9	125	82.0	508	245	60
TC6W-012 OR910	6	33.2	96.9	21	81.1	2.1	1	11.6	5.36	47.1	127	88.9	448	250	55
TC6W-013 OR915	6	33.5	94.0	37	79.7	1.6	1	10.5	4.20	41.0	101	65.1	468	195	37
TC6W-014 OR101	6	35.9	97.8	34	81.0	1.8	1	11.0	4.67	44.3	126	61.0	421	240	48
TC6W-015 OR102	6	43.1	96.6	36	77.2	1.7	1	10.9	3.79	36.3	92	50.0	711	153	24
TC6W-016 OR103	6	40.8	97.3	30	80.8	1.8	1	10.3	4.22	43.5	99	59.6	694	178	39
TC6W-017 OR104	6	38.0	98.2	34	80.3	1.6	1	11.6	4.38	38.9	121	59.4	497	182	43
TC6W-018 OR105	6	40.1	98.4	32	80.1	1.7	1	11.3	4.30	39.5	114	63.5	452	180	34
TC6W-019 OR106	6	39.6	97.8	36	78.6	1.6	1	11.8	4.26	38.2	147	58.7	593	189	43
TC6W-020 OR107	6	38.7	97.6	26	80.3	1.8	1	11.3	4.05	37.9	110	57.7	622	162	34
TC6W-021 OR108	6	36.0	95.2	42	79.4	1.6	1	11.0	4.00	38.8	110	57.2	558	145	34
TC6W-022 OR109	6	32.9	95.9	32	81.4	1.7	1	11.4	4.71	42.8	115	68.7	502	204	44
TC6W-023 OR110	6	40.2	98.1	47	80.0	1.5	1	10.5	4.06	40.7	110	47.7	600	148	31
TC6W-024 OR111	6	44.2	97.7	47	77.8	1.7	1	11.7	4.63	41.1	97	52.1	742	169	33
TC6W-025 OR112	6	42.7	99.3	35	80.2	1.7	1	11.3	4.49	40.6	113	63.1	442	181	34
TC6W-026 OR113	6	40.9	98.6	33	79.6	1.7	1	12.5	4.84	39.5	139	68.2	328	194	49
TC6W-027 OR114	6	39.8	98.3	28	79.0	1.8	1	11.3	4.25	38.4	115	51.6	614	162	31
TC6W-028 Strider	6	39.0	95.8	29	78.3	*2.8	2	11.4	3.77	34.0	61	40.3	797	124	27
TC6W-029 Eight-Twelve	6	37.7	94.9	28	77.1	2.3	2	11.8	4.58	40.3	119	47.3	704	176	25
TC6W-030 OBADV11-2	6	38.2	98.1	41	78.8	1.6	1	11.5	3.91	35.4	79	45.9	747	140	33
TC6W-031 OBADV11-6	6	39.0	98.3	32	75.6	n.d.	3	11.1	3.25	29.4	85	29.1	792	97	15
TC6W-032 OBADV11-13	6	40.5	97.6	35	75.8	*2.6	2	11.9	3.94	34.7	122	34.3	730	131	25
TC6W-033 OBADV11-14	6	39.2	98.4	47	77.3	1.4	1	12.3	3.85	31.3	79	38.8	791	130	22
TC6W-034 OBADV11-17	6	38.0	98.6	31	76.4	n.d.	3	13.0	4.08	31.7	90	34.3	763	138	20

TC6W-035	OBADV11-26	6	44.5	99.1	45	<b>75.4</b>	2.4	2	11.9	<b>3.70</b>	<b>31.5</b>	<b>83</b>	<b>32.4</b>	<b>743</b>	<b>115</b>	21
TC6W-036	OBADV11-29	6	33.7	92.6	38	<b>75.5</b>	*3.0	2	<b>11.2</b>	<b>3.21</b>	<b>29.4</b>	<b>81</b>	<b>28.1</b>	<b>864</b>	<b>92</b>	16
TC6W-037	OBADV11-30	6	41.4	97.5	31	*73.3	1.7	1	13.4	<b>3.77</b>	<b>29.6</b>	<b>93</b>	37.1	<b>594</b>	<b>118</b>	22
TC6W-038	OBADV11-31	6	32.8	98.1	36	<b>77.2</b>	n.d.	3	11.5	<b>3.69</b>	<b>33.2</b>	<b>81</b>	<b>29.8</b>	<b>667</b>	<b>114</b>	20
TC6W-039	PO71DH-84	6	35.6	97.6	41	80.5	1.7	1	<b>10.1</b>	<b>4.12</b>	<b>40.8</b>	<b>82</b>	50.7	<b>496</b>	<b>150</b>	34
TC6W-040	PO71DH-87	6	45.8	99.4	26	81.1	n.d.	3	<b>10.9</b>	<b>3.87</b>	<b>37.5</b>	<b>86</b>	50.7	<b>591</b>	<b>131</b>	32
TC6W-041	PO71DH-94	6	38.6	98.2	42	<b>77.2</b>	1.4	1	13.2	<b>4.28</b>	<b>33.0</b>	<b>101</b>	51.0	<b>513</b>	<b>154</b>	29
TC6W-042	PO71DH-104	6	36.3	97.1	33	77.8	*2.9	2	11.8	<b>4.17</b>	<b>35.4</b>	<b>104</b>	44.7	<b>689</b>	<b>159</b>	29
TC6W-043	PO71DH-111	6	31.8	95.9	31	78.4	2.0	1	<b>11.2</b>	<b>4.30</b>	<b>40.3</b>	<b>97</b>	54.7	<b>684</b>	<b>176</b>	30
TC6W-044	PYT211-6	6	37.0	97.6	35	79.7	2.1	1	12.3	5.60	47.0	128	74.5	<b>242</b>	257	60
TC6W-045	PYT211-10	6	35.9	96.9	36	80.3	1.8	1	12.6	4.90	<b>40.4</b>	176	71.2	<b>330</b>	200	52
TC6W-046	2011-F5-2-1	6	34.6	94.8	35	81.4	2.1	1	<b>9.9</b>	<b>4.55</b>	<b>48.2</b>	<b>83</b>	89.7	<b>294</b>	196	37
TC6W-047	2011-F5-3-1	6	33.1	95.9	37	79.8	1.8	1	<b>11.1</b>	<b>4.43</b>	<b>40.6</b>	<b>115</b>	61.5	<b>595</b>	<b>177</b>	34
TC6W-048	2011-F5-3-2	6	38.3	97.9	33	79.5	2.0	1	12.0	<b>4.68</b>	<b>41.0</b>	<b>113</b>	57.1	<b>645</b>	<b>181</b>	39
TC6W-049	2011-F5-4-1	6	36.1	97.9	40	79.4	1.7	1	<b>11.0</b>	<b>4.37</b>	<b>40.8</b>	<b>102</b>	59.0	<b>591</b>	<b>169</b>	34
TC6W-050	2011-F5-4-2	6	36.1	96.8	37	79.9	1.8	1	<b>11.4</b>	<b>4.58</b>	<b>41.9</b>	<b>110</b>	61.2	<b>606</b>	<b>178</b>	34
TC6W-051	2011-F5-5-1	6	42.2	97.7	45	78.9	1.7	1	<b>11.3</b>	<b>4.09</b>	<b>39.0</b>	<b>95</b>	54.1	<b>605</b>	<b>157</b>	31
TC6W-052	2011-F5-7-1	6	37.9	98.2	39	79.1	1.4	1	11.6	<b>4.04</b>	<b>36.2</b>	<b>103</b>	45.7	<b>773</b>	<b>139</b>	36
TC6W-053	2011-F5-7-3	6	39.5	98.4	39	79.3	1.5	1	<b>11.1</b>	<b>4.11</b>	<b>37.5</b>	<b>112</b>	49.7	<b>776</b>	<b>147</b>	31
TC6W-054	2011-F5-7-4	6	33.0	95.0	37	79.0	1.5	1	<b>11.1</b>	<b>3.76</b>	<b>35.3</b>	<b>107</b>	48.6	<b>727</b>	<b>130</b>	28
TC6W-055	2011-F5-8-2	6	40.3	97.7	38	<b>77.4</b>	1.2	1	11.7	<b>3.65</b>	<b>31.3</b>	125	42.8	<b>659</b>	<b>134</b>	30
TC6W-056	2011-F5-8-3	6	39.4	97.8	35	78.4	1.4	1	12.0	<b>3.86</b>	<b>32.6</b>	<b>110</b>	44.8	<b>703</b>	<b>148</b>	33
TC6W-057	2011-F5-9-2	6	33.4	95.8	34	80.5	1.9	1	11.8	<b>4.63</b>	<b>40.3</b>	<b>91</b>	65.5	<b>496</b>	<b>174</b>	39
TC6W-058	2011-F5-9-3	6	33.4	96.5	35	79.0	2.0	1	12.1	<b>4.79</b>	<b>40.6</b>	<b>112</b>	55.0	<b>517</b>	<b>183</b>	36
TC6W-059	2011-F5-16-1	6	37.8	96.8	41	78.8	1.7	1	<b>10.9</b>	<b>3.73</b>	<b>34.3</b>	<b>77</b>	42.7	<b>789</b>	<b>129</b>	28
TC6W-060	2011-F5-16-2	6	33.7	96.4	40	80.1	1.9	2	<b>10.3</b>	<b>3.80</b>	<b>38.2</b>	<b>80</b>	47.9	<b>754</b>	<b>136</b>	30
TC6W-061	2011-F5-16-3	6	35.5	90.9	40	79.4	1.6	1	<b>10.8</b>	<b>3.86</b>	<b>37.6</b>	<b>79</b>	45.1	<b>740</b>	<b>138</b>	31
TC6W-062	2011-F5-16-4	6	35.9	97.8	39	81.6	1.7	1	<b>9.4</b>	<b>3.88</b>	42.5	<b>81</b>	54.7	<b>479</b>	<b>144</b>	39
TC6W-063	2011-F5-17-1	6	34.8	97.2	36	78.6	1.8	2	<b>11.3</b>	<b>4.00</b>	<b>35.8</b>	<b>91</b>	52.4	<b>698</b>	<b>144</b>	30
TC6W-064	2011-F5-22-1	6	37.8	95.7	31	78.3	1.6	1	<b>11.2</b>	<b>4.02</b>	<b>38.5</b>	<b>109</b>	57.2	<b>719</b>	<b>151</b>	31
TC6W-065	2011-F5-22-3	6	35.8	96.7	36	81.1	2.4	1	<b>10.3</b>	<b>4.03</b>	<b>40.5</b>	<b>81</b>	62.2	<b>551</b>	<b>159</b>	34
TC6W-066	2011-F5-23-1	6	35.5	96.1	38	80.8	1.8	1	<b>10.2</b>	<b>4.11</b>	42.7	<b>109</b>	72.5	<b>496</b>	<b>161</b>	39
TC6W-067	2011-F5-24-1	6	33.3	96.2	39	<b>76.9</b>	1.9	1	<b>10.9</b>	<b>3.73</b>	<b>36.4</b>	<b>90</b>	41.6	<b>900</b>	<b>126</b>	21
TC6W-068	2011-F5-25-1	6	37.3	95.6	40	77.8	2.1	2	<b>10.7</b>	<b>3.59</b>	<b>35.2</b>	<b>100</b>	41.7	<b>896</b>	<b>123</b>	24
TC6W-069	2011-F5-25-2	6	35.8	96.6	38	79.3	1.8	1	<b>9.9</b>	<b>3.79</b>	<b>39.9</b>	<b>101</b>	52.2	<b>806</b>	<b>142</b>	34
TC6W-070	2011-F5-27-1	6	35.4	97.4	37	78.7	1.5	1	<b>11.2</b>	<b>4.19</b>	<b>38.8</b>	<b>109</b>	54.0	<b>720</b>	<b>159</b>	31
TC6W-071	2011-F5-27-2	6	35.4	96.0	33	78.3	1.5	1	<b>10.9</b>	<b>4.13</b>	<b>37.9</b>	<b>105</b>	51.2	<b>729</b>	<b>158</b>	31
TC6W-072	2011-F5-27-3	6	37.3	97.4	40	78.2	1.6	1	<b>11.2</b>	<b>3.99</b>	<b>37.1</b>	<b>100</b>	45.4	<b>800</b>	<b>150</b>	28
TC6W-073	2011-F5-29-1	6	38.6	97.2	36	78.1	1.6	1	11.6	<b>3.90</b>	<b>35.3</b>	<b>119</b>	48.4	<b>654</b>	<b>156</b>	30
TC6W-074	2011-F5-32-1	6	40.1	97.2	39	79.9	1.5	1	11.7	<b>4.15</b>	<b>36.5</b>	<b>120</b>	66.4	<b>317</b>	<b>165</b>	39

TC6W-075	2011-F5-35-1	6	33.1	95.9	38	<b>77.3</b>	2.3	2	12.7	<b>4.21</b>	<b>35.9</b>	<b>80</b>	49.6	<b>800</b>	<b>145</b>	25
TC6W-076	2011-F5-35-2	6	36.7	98.0	38	<b>77.7</b>	2.0	2	<b>11.4</b>	<b>4.05</b>	<b>37.0</b>	<b>83</b>	49.9	<b>747</b>	<b>141</b>	20
TC6W-077	2011-F5-36-1	6	37.8	98.4	31	*74.4	n.d.	3	11.9	<b>3.65</b>	<b>31.9</b>	<b>84</b>	<b>29.7</b>	<b>904</b>	<b>115</b>	20
TC6W-078	2011-F5-36-2	6	37.4	97.8	24	<b>76.4</b>	1.8	1	11.8	<b>4.17</b>	<b>37.8</b>	<b>100</b>	46.1	<b>683</b>	<b>156</b>	26
TC6W-079	2011-F5-36-3	6	37.2	97.5	29	<b>76.6</b>	1.8	1	12.9	<b>4.29</b>	<b>34.6</b>	<b>103</b>	47.7	<b>701</b>	<b>161</b>	26
TC6W-080	2011-F5-37-1	6	37.2	98.5	29	<b>77.4</b>	1.8	1	13.1	<b>4.57</b>	<b>36.3</b>	<b>106</b>	52.5	<b>779</b>	<b>172</b>	29
TC6W-081	2011-F5-37-2	6	36.1	98.3	28	<b>75.9</b>	1.9	1	13.9	4.83	<b>35.7</b>	<b>112</b>	54.6	<b>799</b>	<b>179</b>	27
TC6W-082	2011-F5-37-3	6	39.3	98.2	30	<b>77.1</b>	1.9	1	11.9	<b>4.57</b>	<b>38.7</b>	<b>103</b>	54.4	<b>734</b>	<b>170</b>	29
TC6W-083	2011-F5-37-4	6	39.9	98.9	31	<b>75.5</b>	n.d.	3	11.7	<b>3.88</b>	<b>35.6</b>	<b>70</b>	<b>33.1</b>	<b>918</b>	<b>121</b>	20
TC6W-084	2011-F5-37-5	6	37.7	98.3	27	*73.8	n.d.	3	12.0	<b>3.47</b>	<b>29.4</b>	<b>67</b>	<b>26.8</b>	<b>984</b>	<b>111</b>	20
TC6W-085	2011-F5-47-1	6	34.8	96.3	41	80.8	1.8	1	<b>9.2</b>	<b>3.85</b>	42.8	<b>79</b>	54.6	<b>565</b>	<b>151</b>	39
TC6W-086	2011-F5-47-2	6	35.2	95.2	40	80.8	1.9	1	<b>11.5</b>	<b>4.35</b>	<b>40.8</b>	<b>85</b>	60.8	<b>583</b>	<b>153</b>	34
TC6W-087	2011-F5-47-3	6	38.3	97.2	33	79.1	1.7	1	<b>11.5</b>	<b>4.03</b>	<b>36.8</b>	<b>108</b>	52.6	<b>789</b>	<b>140</b>	34
TC6W-088	2011-F5-48-1	6	35.8	94.0	32	77.9	1.5	1	11.6	<b>3.91</b>	<b>35.4</b>	<b>109</b>	56.5	<b>730</b>	<b>148</b>	33
TC6W-089	2011-F5-49-1	6	34.3	93.4	29	79.0	1.6	1	<b>10.5</b>	<b>3.50</b>	<b>34.9</b>	<b>88</b>	40.8	<b>990</b>	<b>110</b>	28
TC6W-090	2011-F5-50-1	6	38.1	98.6	41	79.6	1.5	1	<b>10.9</b>	<b>3.75</b>	<b>35.6</b>	<b>88</b>	43.8	<b>763</b>	<b>137</b>	31
TC6W-091	2011-F5-52-1	6	37.1	98.6	29	79.2	1.8	1	13.2	<b>4.50</b>	<b>36.8</b>	125	59.6	<b>574</b>	<b>175</b>	43
TC6W-092	2011-F5-52-2	6	36.4	97.6	32	79.4	2.0	1	12.7	<b>4.74</b>	<b>38.9</b>	<b>119</b>	61.8	<b>592</b>	<b>178</b>	39
TC6W-093	2011-F5-52-3	6	37.8	97.3	30	78.5	1.9	1	13.4	4.81	<b>38.2</b>	128	62.0	<b>522</b>	194	46
TC6W-094	2011-F5-55-1	6	37.7	98.4	23	<b>77.1</b>	1.6	1	12.5	<b>4.33</b>	<b>34.9</b>	<b>119</b>	53.9	<b>721</b>	<b>159</b>	29
TC6W-095	2011-F5-55-2	6	35.6	97.7	24	<b>77.1</b>	1.7	1	12.5	<b>4.40</b>	<b>35.4</b>	<b>113</b>	53.7	<b>707</b>	<b>163</b>	29
TC6W-096	2011-F5-56-1	6	40.8	98.6	42	79.7	1.6	1	<b>10.8</b>	<b>4.19</b>	42.1	<b>82</b>	59.4	<b>566</b>	<b>151</b>	39
TC6W-097	2011-F5-56-3	6	41.6	98.8	41	79.3	1.6	1	11.6	<b>4.34</b>	<b>39.0</b>	<b>90</b>	59.8	<b>568</b>	<b>154</b>	39
TC6W-098	2011-F5-57-2	6	40.0	98.2	40	79.8	1.6	1	<b>11.1</b>	<b>4.03</b>	<b>37.0</b>	<b>79</b>	53.6	<b>641</b>	<b>136</b>	34
TC6W-099	2011-F5-58-1	6	41.8	98.4	47	79.8	1.5	1	<b>10.9</b>	<b>4.31</b>	<b>41.3</b>	<b>88</b>	55.8	<b>668</b>	<b>154</b>	34
TC6W-100	2011-F5-59-1	6	40.5	97.7	51	78.9	1.5	1	<b>11.2</b>	<b>4.09</b>	<b>39.3</b>	<b>86</b>	55.2	<b>705</b>	<b>152</b>	31
TC6W-101	2011-F5-59-2	6	42.2	98.5	42	79.0	1.6	1	<b>10.9</b>	<b>4.06</b>	<b>38.4</b>	<b>83</b>	54.5	<b>617</b>	<b>158</b>	31
TC6W-102	2011-F5-60-1	6	38.9	96.1	48	79.0	1.5	1	<b>10.8</b>	<b>4.03</b>	<b>38.0</b>	<b>88</b>	52.7	<b>696</b>	<b>161</b>	34
TC6W-103	2011-F5-60-2	6	44.0	98.8	49	78.7	1.5	1	<b>10.7</b>	<b>4.05</b>	<b>38.7</b>	<b>93</b>	53.7	<b>698</b>	<b>158</b>	31
TC6W-104	2011-F5-63-1	6	31.0	93.7	47	79.5	1.7	1	<b>10.6</b>	<b>4.18</b>	42.7	<b>87</b>	55.5	<b>601</b>	<b>170</b>	38
TC6W-105	2011-F5-63-2	6	34.2	95.9	48	79.1	1.5	1	<b>11.1</b>	<b>4.33</b>	<b>40.2</b>	<b>90</b>	58.9	<b>684</b>	<b>179</b>	34
TC6W-106	2011-F5-64-1	6	40.9	98.3	37	79.3	1.4	1	<b>10.7</b>	<b>4.02</b>	<b>39.1</b>	<b>115</b>	63.4	<b>697</b>	<b>158</b>	34
TC6W-107	2011-F5-66-2	6	40.2	97.6	39	79.7	1.6	1	11.5	<b>4.78</b>	44.3	<b>108</b>	70.1	<b>516</b>	210	49
TC6W-108	2011-F5-66-3	6	34.2	94.8	34	79.8	1.6	1	<b>11.4</b>	<b>4.74</b>	45.4	<b>104</b>	68.5	<b>548</b>	204	44
TC6W-109	2011-F5-72-1	6	35.8	96.3	34	<b>75.1</b>	1.8	1	12.7	<b>4.15</b>	<b>34.4</b>	<b>95</b>	50.5	<b>776</b>	<b>150</b>	29
TC6W-110	2011-F5-72-2	6	36.0	98.4	34	<b>76.6</b>	1.6	1	12.4	<b>4.18</b>	<b>34.2</b>	<b>97</b>	48.2	<b>783</b>	<b>153</b>	26
TC6W-111	2011-F5-72-3	6	37.9	96.6	29	<b>76.1</b>	1.7	1	12.5	<b>4.01</b>	<b>34.2</b>	<b>94</b>	49.8	<b>737</b>	<b>149</b>	26
TC6W-112	2011-F5-72-4	6	36.2	95.0	34	<b>76.0</b>	1.5	1	12.1	<b>3.74</b>	<b>33.1</b>	<b>84</b>	43.3	<b>784</b>	<b>135</b>	26
TC6W-113	2011-F5-75-1	6	41.1	98.9	35	80.6	1.5	1	<b>10.0</b>	<b>4.09</b>	44.1	<b>87</b>	61.7	<b>524</b>	<b>167</b>	39
TC6W-114	2011-F5-76-1	6	44.0	98.6	48	78.6	1.3	1	<b>11.1</b>	<b>3.99</b>	<b>37.3</b>	<b>85</b>	52.2	<b>691</b>	<b>149</b>	31

TC6W-115	2011-F5-76-2	6	41.8	97.9	49	78.8	1.5	1	<b>11.5</b>	<b>4.20</b>	<b>38.5</b>	<b>85</b>	55.3	<b>726</b>	<b>161</b>	31
TC6W-116	2011-F5-76-3	6	42.1	98.6	44	78.7	1.5	1	11.5	<b>4.20</b>	<b>39.7</b>	<b>86</b>	54.2	<b>689</b>	<b>162</b>	36
TC6W-117	2011-F5-76-4	6	42.6	94.6	46	78.4	1.5	1	<b>10.7</b>	<b>3.99</b>	<b>39.2</b>	<b>81</b>	53.6	<b>621</b>	<b>153</b>	31
TC6W-118	2011-F5-79-1	6	39.6	98.3	53	79.8	1.5	1	<b>10.6</b>	<b>4.29</b>	42.3	<b>94</b>	56.5	<b>534</b>	<b>167</b>	39
TC6W-119	2011-F5-83-1	6	41.4	98.4	42	79.2	1.4	1	<b>10.4</b>	<b>3.97</b>	<b>39.6</b>	<b>78</b>	54.8	<b>718</b>	<b>151</b>	34
TC6W-120	2011-F5-84-1	6	43.8	98.8	42	78.6	1.5	1	12.0	<b>4.23</b>	<b>37.6</b>	<b>89</b>	52.8	<b>709</b>	<b>167</b>	36
TC6W-121	2011-F5-84-2	6	41.6	98.3	39	78.9	1.4	1	<b>10.4</b>	<b>3.93</b>	<b>38.8</b>	<b>76</b>	50.2	<b>690</b>	<b>157</b>	31
TC6W-122	2011-F5-85-1	6	42.0	98.4	53	79.3	1.4	1	<b>9.3</b>	<b>3.59</b>	<b>41.3</b>	<b>73</b>	47.7	<b>454</b>	<b>135</b>	31
TC6W-123	2011-F5-85-2	6	41.4	98.7	52	78.7	1.3	1	<b>11.4</b>	<b>4.00</b>	<b>36.7</b>	<b>86</b>	50.6	<b>626</b>	<b>152</b>	31
TC6W-124	2011-F5-86-1	6	41.4	98.5	48	80.1	1.3	1	<b>9.4</b>	<b>3.74</b>	<b>41.5</b>	<b>83</b>	51.9	<b>405</b>	<b>145</b>	34
TC6W-125	2011-F5-86-2	6	39.4	98.4	46	80.2	1.4	1	<b>9.9</b>	<b>3.89</b>	<b>41.3</b>	<b>73</b>	50.4	<b>642</b>	<b>150</b>	34
TC6W-126	2011-F5-87-1	6	42.8	97.7	54	78.8	1.5	1	<b>10.7</b>	<b>3.88</b>	<b>38.0</b>	<b>70</b>	44.6	<b>716</b>	<b>142</b>	28
TC6W-127	2011-F5-88-1	6	39.7	97.5	46	78.7	1.4	1	<b>11.4</b>	<b>4.10</b>	<b>37.0</b>	<b>90</b>	51.0	<b>723</b>	<b>159</b>	31
TC6W-128	2011-F5-88-2	6	42.3	98.5	44	79.3	1.5	1	<b>10.7</b>	<b>4.13</b>	<b>40.5</b>	<b>79</b>	54.4	<b>657</b>	<b>159</b>	34
TC6W-129	2011-F5-88-3	6	41.0	98.0	49	79.9	1.5	1	<b>10.5</b>	<b>4.10</b>	42.5	<b>86</b>	55.5	<b>648</b>	<b>159</b>	39
TC6W-130	2011-F5-90-4	6	37.9	97.2	48	80.4	1.5	1	<b>10.4</b>	<b>4.44</b>	43.5	<b>92</b>	60.4	<b>509</b>	<b>184</b>	39
TC6W-131	2011-F5-90-5	6	34.8	96.6	48	79.0	1.6	1	12.0	<b>4.79</b>	<b>41.3</b>	<b>100</b>	61.2	<b>596</b>	194	42
TC6W-132	2011-F5-91-1	6	35.2	95.8	40	80.8	2.1	1	<b>11.3</b>	4.93	44.7	<b>91</b>	54.4	<b>660</b>	210	47
TC6W-133	2011-F5-91-2	6	40.4	97.5	45	79.4	1.5	1	11.6	<b>4.66</b>	<b>40.5</b>	<b>115</b>	54.3	<b>594</b>	198	42
TC6W-134	2011-F5-93-1	6	45.7	99.3	38	77.9	1.5	1	<b>11.5</b>	<b>4.13</b>	<b>36.8</b>	<b>94</b>	53.1	<b>713</b>	<b>155</b>	28
TC6W-135	2011-F5-94-1	6	47.2	98.5	48	<b>75.9</b>	1.6	1	<b>11.5</b>	<b>4.00</b>	<b>35.4</b>	<b>99</b>	51.0	<b>646</b>	<b>156</b>	24
TC6W-136	2011-F5-95-1	6	39.6	97.4	44	<b>77.6</b>	1.7	1	<b>11.2</b>	<b>3.95</b>	<b>36.9</b>	<b>83</b>	48.7	<b>701</b>	<b>149</b>	21
TC6W-137	2011-F5-96-1	6	39.0	95.5	46	79.9	1.8	1	<b>10.5</b>	<b>3.76</b>	<b>36.7</b>	<b>93</b>	50.0	<b>623</b>	<b>149</b>	31
TC6W-138	2011-F5-96-2	6	40.7	94.8	43	78.6	1.7	1	11.5	<b>3.76</b>	<b>35.0</b>	<b>97</b>	49.5	<b>640</b>	<b>147</b>	33
TC6W-139	2011-F5-96-3	6	38.5	93.2	46	78.9	1.7	1	<b>10.3</b>	<b>3.56</b>	<b>35.4</b>	<b>85</b>	45.7	<b>711</b>	<b>135</b>	28
TC6W-140	2011-F5-96-4	6	36.8	92.2	44	78.6	1.8	1	11.6	<b>3.82</b>	<b>35.4</b>	<b>94</b>	46.2	<b>716</b>	<b>146</b>	33
TC6W-141	2011-F5-97-1	6	39.2	97.4	45	78.0	1.8	1	11.9	<b>4.56</b>	<b>39.3</b>	<b>99</b>	55.5	<b>667</b>	<b>184</b>	33
TC6W-142	2011-F5-99-1	6	43.6	98.6	38	77.8	1.7	1	<b>11.0</b>	<b>4.33</b>	<b>40.4</b>	<b>101</b>	59.5	<b>598</b>	<b>173</b>	28
TC6W-143	2011-F5-105-1	6	41.0	95.4	48	78.3	1.7	1	<b>11.0</b>	<b>4.22</b>	<b>38.7</b>	<b>91</b>	55.0	<b>605</b>	<b>164</b>	31
TC6W-144	2011-F5-105-2	6	40.3	97.9	43	79.7	1.7	1	<b>10.6</b>	<b>4.17</b>	<b>40.2</b>	<b>92</b>	54.8	<b>638</b>	<b>161</b>	34
TC6W-145	2011-F5-105-3	6	39.5	97.6	45	79.2	1.8	1	<b>10.9</b>	<b>4.38</b>	<b>40.3</b>	<b>96</b>	53.3	<b>597</b>	<b>169</b>	34
TC6W-146	2011-F5-105-4	6	39.4	98.4	41	81.3	1.6	1	<b>9.9</b>	<b>4.08</b>	43.8	<b>82</b>	58.5	<b>574</b>	<b>167</b>	39
TC6W-147	2011-F5-106-1	6	41.4	97.1	45	79.5	1.7	1	<b>10.1</b>	<b>4.12</b>	44.7	<b>87</b>	57.5	<b>601</b>	<b>171</b>	39
TC6W-148	2011-F5-106-2	6	46.4	98.5	48	79.9	1.5	1	11.5	<b>4.49</b>	<b>40.4</b>	<b>94</b>	62.1	<b>614</b>	<b>188</b>	39
TC6W-149	2011-F5-107-2	6	43.2	98.2	49	79.7	1.5	1	<b>10.0</b>	<b>3.74</b>	<b>39.1</b>	<b>82</b>	55.5	<b>628</b>	<b>148</b>	34
TC6W-150	2011-F5-108-1	6	42.4	98.3	50	78.8	1.5	1	12.0	<b>4.02</b>	<b>35.0</b>	<b>96</b>	51.5	<b>723</b>	<b>158</b>	36
TC6W-151	2011-F5-109-1	6	43.5	98.4	51	79.3	1.6	1	11.8	<b>4.05</b>	<b>37.2</b>	<b>90</b>	53.2	<b>698</b>	<b>153</b>	39
TC6W-152	2011-F5-109-2	6	41.4	97.8	52	80.0	1.5	1	<b>10.3</b>	<b>4.04</b>	<b>42.0</b>	<b>81</b>	56.2	<b>686</b>	<b>159</b>	34
TC6W-153	2011-F5-109-3	6	41.9	97.8	51	79.9	1.6	1	<b>11.1</b>	<b>4.28</b>	<b>40.2</b>	<b>85</b>	55.2	<b>700</b>	<b>169</b>	34
TC6W-154	2011-F5-110-1	6	43.8	98.9	38	81.6	1.7	1	<b>10.4</b>	<b>4.19</b>	42.8	<b>77</b>	58.5	<b>640</b>	<b>173</b>	39

TC6W-155	2011-F5-112-1	6	41.5	98.0	51	79.1	1.7	1	<b>9.4</b>	<b>3.81</b>	<b>41.4</b>	<b>77</b>	48.3	<b>693</b>	<b>153</b>	31
TC6W-156	2011-F5-112-2	6	42.9	97.9	50	78.7	1.6	1	<b>10.4</b>	<b>3.80</b>	<b>38.6</b>	<b>87</b>	51.6	<b>597</b>	<b>150</b>	31
TC6W-157	2011-F5-112-3	6	40.9	98.1	44	79.1	1.6	1	<b>10.5</b>	<b>3.84</b>	<b>37.3</b>	<b>82</b>	53.5	<b>615</b>	<b>153</b>	34
TC6W-158	2011-F5-113-1	6	40.6	98.3	44	80.8	1.7	1	<b>10.9</b>	<b>4.61</b>	43.5	<b>94</b>	68.7	<b>453</b>	192	42
TC6W-159	2011-F5-113-2	6	41.8	98.5	46	78.8	1.6	1	11.7	<b>4.30</b>	<b>38.7</b>	<b>92</b>	55.1	<b>674</b>	<b>170</b>	36
TC6W-160	2011-F5-113-3	6	40.8	98.4	43	80.7	1.7	1	<b>11.1</b>	<b>4.51</b>	44.0	<b>94</b>	65.8	<b>510</b>	190	42
TC6W-161	2011-F5-115-1	6	43.2	98.6	46	80.2	1.5	1	<b>11.2</b>	<b>4.28</b>	<b>40.5</b>	<b>83</b>	59.4	<b>597</b>	<b>176</b>	34
TC6W-162	2011-F5-118-1	6	43.6	98.3	45	79.7	1.5	1	<b>10.6</b>	<b>4.28</b>	<b>41.4</b>	<b>85</b>	56.5	<b>569</b>	<b>173</b>	34
TC6W-163	2011-F5-119-1	6	42.1	97.3	47	79.2	1.5	1	<b>10.2</b>	<b>3.82</b>	<b>38.9</b>	<b>82</b>	56.0	<b>571</b>	<b>148</b>	34
TC6W-164	2011-F5-119-2	6	41.3	97.8	45	79.1	1.5	1	<b>10.0</b>	<b>3.94</b>	42.2	<b>84</b>	52.6	<b>557</b>	<b>153</b>	39
TC6W-165	2011-F5-120-1	6	42.1	98.1	48	78.4	1.6	1	<b>10.9</b>	<b>4.06</b>	<b>38.2</b>	<b>85</b>	53.8	<b>712</b>	<b>157</b>	31
TC6W-166	2011-F5-120-2	6	42.8	97.9	45	78.7	1.6	1	<b>10.0</b>	<b>4.03</b>	<b>40.9</b>	<b>78</b>	56.4	<b>652</b>	<b>159</b>	31
TC6W-167	2011-F5-120-3	6	42.4	96.5	54	78.2	1.5	1	<b>11.3</b>	<b>4.13</b>	<b>39.1</b>	<b>84</b>	57.5	<b>658</b>	<b>163</b>	31
TC6W-168	2011-F5-121-1	6	38.5	95.9	44	78.7	1.7	1	<b>11.1</b>	<b>4.01</b>	<b>38.7</b>	<b>86</b>	54.4	<b>723</b>	<b>155</b>	31
TC6W-169	2011-F5-121-2	6	39.8	97.3	45	79.7	1.5	1	<b>10.4</b>	<b>4.13</b>	<b>40.4</b>	<b>85</b>	56.9	<b>665</b>	<b>165</b>	34
TC6W-170	2011-F5-121-3	6	41.2	98.1	43	78.9	1.5	1	<b>10.6</b>	<b>4.09</b>	<b>40.9</b>	<b>88</b>	58.4	<b>672</b>	<b>160</b>	31
TC6W-171	2011-F5-121-4	6	39.3	96.8	44	79.0	1.7	1	<b>10.5</b>	<b>4.00</b>	<b>40.5</b>	<b>80</b>	56.5	<b>722</b>	<b>161</b>	34
TC6W-172	2011-F5-121-5	6	39.8	98.0	41	79.5	1.5	1	<b>10.6</b>	<b>3.93</b>	<b>38.9</b>	<b>82</b>	58.7	<b>716</b>	<b>155</b>	34
TC6W-173	2011-F5-122-1	6	44.3	98.3	50	78.4	1.5	1	12.0	<b>4.10</b>	<b>35.0</b>	<b>91</b>	54.7	<b>768</b>	<b>156</b>	36
TC6W-174	2011-F5-123-1	6	44.0	97.5	50	80.9	1.5	1	<b>10.3</b>	<b>4.08</b>	<b>41.5</b>	<b>85</b>	59.8	<b>585</b>	<b>166</b>	34
TC6W-175	2011-F5-124-1	6	43.9	98.5	46	78.2	1.5	1	11.6	<b>3.99</b>	<b>35.9</b>	<b>80</b>	49.7	<b>730</b>	<b>150</b>	33
TC6W-176	2011-F5-126-1	6	43.3	98.7	46	78.1	1.5	1	12.0	<b>4.27</b>	<b>35.9</b>	<b>83</b>	53.5	<b>778</b>	<b>169</b>	33
TC6W-177	2011-F5-126-2	6	40.9	97.7	51	78.7	1.4	1	<b>11.3</b>	<b>4.02</b>	<b>37.1</b>	<b>87</b>	59.0	<b>749</b>	<b>159</b>	31
TC6W-178	2011-F5-129-1	6	41.1	98.0	42	80.6	1.8	1	<b>9.7</b>	<b>4.34</b>	<b>48.1</b>	<b>89</b>	63.2	<b>576</b>	196	37
TC6W-179	2011-F5-131-1	6	43.3	97.3	44	78.5	1.6	1	11.7	<b>4.42</b>	<b>39.8</b>	<b>89</b>	57.2	<b>754</b>	<b>176</b>	36
TC6W-180	2011-F5-132-1	6	39.8	95.6	45	79.2	1.7	1	<b>11.4</b>	<b>4.32</b>	<b>40.8</b>	<b>94</b>	60.9	<b>616</b>	<b>177</b>	34
TC6W-181	2011-F5-134-1	6	43.1	98.1	54	79.0	1.5	1	<b>10.8</b>	<b>4.08</b>	<b>38.5</b>	<b>91</b>	55.6	<b>668</b>	<b>158</b>	34
TC6W-182	2011-F5-134-2	6	42.7	98.9	48	79.3	1.4	1	<b>9.7</b>	<b>3.62</b>	<b>39.6</b>	<b>81</b>	52.4	<b>530</b>	<b>139</b>	34
TC6W-183	2011-F5-134-3	6	44.5	98.7	48	78.5	1.4	1	<b>10.9</b>	<b>4.10</b>	<b>40.1</b>	<b>101</b>	53.0	<b>734</b>	<b>157</b>	31
TC6W-184	2011-F5-135-1	6	42.3	96.7	52	78.2	1.6	1	<b>10.7</b>	<b>4.38</b>	42.8	<b>92</b>	64.5	<b>582</b>	<b>182</b>	33
TC6W-185	2011-F5-135-2	6	44.7	98.2	50	<b>76.7</b>	1.5	1	11.7	<b>4.42</b>	<b>38.8</b>	<b>106</b>	60.4	<b>747</b>	<b>173</b>	29
TC6W-186	2011-F5-135-3	6	43.4	97.0	54	77.8	1.5	1	12.0	<b>4.08</b>	<b>36.7</b>	<b>100</b>	56.9	<b>623</b>	<b>165</b>	33
TC6W-187	2011-F5-135-4	6	42.6	98.8	53	79.0	1.6	1	<b>10.9</b>	<b>4.23</b>	<b>41.6</b>	<b>94</b>	60.8	<b>596</b>	<b>172</b>	34
TC6W-188	2011-F5-136-1	6	40.7	97.1	34	78.0	1.7	1	<b>9.7</b>	<b>4.12</b>	42.7	<b>106</b>	65.2	<b>436</b>	<b>179</b>	33
TC6W-189	2011-F5-140-1	6	34.2	94.2	35	79.9	1.6	1	<b>10.6</b>	<b>4.16</b>	<b>41.3</b>	<b>120</b>	61.3	<b>629</b>	<b>185</b>	34
TC6W-190	2011-F5-140-2	6	37.7	96.6	36	79.4	1.5	1	<b>11.0</b>	<b>4.02</b>	<b>38.2</b>	<b>119</b>	51.1	<b>751</b>	<b>171</b>	34
TC6W-191	2011-F5-141-1	6	32.9	93.2	35	80.4	1.7	1	<b>11.3</b>	<b>4.42</b>	42.7	125	65.9	<b>512</b>	201	48
TC6W-192	2011-F5-141-3	6	33.0	95.3	40	80.9	1.7	1	<b>10.2</b>	<b>4.33</b>	43.9	131	69.3	<b>454</b>	203	48
TC6W-193	2011-F5-141-5	6	33.3	96.5	35	80.9	1.5	1	<b>11.2</b>	<b>4.47</b>	43.2	<b>116</b>	66.4	<b>457</b>	215	44
TC6W-194	06OR-9	6	42.4	98.9	49	81.2	1.3	1	<b>10.1</b>	<b>3.96</b>	<b>41.1</b>	<b>92</b>	60.7	<b>383</b>	<b>161</b>	34

TC6W-195 06OR-10	6	34.9	90.6	42	80.5	1.6	1	<b>11.4</b>	<b>4.62</b>	<b>41.8</b>	127	62.3	<b>576</b>	201	43
TC6W-196 06OR-20	6	33.1	94.1	40	81.2	1.6	1	<b>10.6</b>	<b>4.59</b>	46.8	141	68.3	<b>480</b>	212	51
TC6W-197 06OR-22	6	39.8	97.2	45	79.1	1.5	1	11.5	<b>4.64</b>	43.5	<b>110</b>	66.0	<b>528</b>	197	47
TC6W-198 06OR-37	6	36.8	96.3	47	79.6	1.5	1	<b>11.1</b>	<b>4.57</b>	43.0	<b>119</b>	66.1	<b>659</b>	190	39
TC6W-199 06OR-38	6	40.8	97.7	32	79.2	1.6	1	11.5	4.80	43.8	<b>118</b>	94.0	<b>312</b>	225	52
TC6W-200 06OR-40	6	31.6	*88.5	38	79.5	1.5	1	<b>10.5</b>	<b>4.39</b>	43.0	132	67.8	<b>474</b>	196	45
TC6W-201 06OR-41	6	38.9	98.0	44	80.9	1.8	1	<b>11.0</b>	5.27	<b>50.3</b>	128	73.3	<b>415</b>	244	50
TC6W-202 06OR-42	6	39.0	96.5	33	78.6	1.6	1	13.4	5.61	44.3	161	78.7	<b>248</b>	261	60
TC6W-203 06OR-43	6	40.5	97.8	47	80.5	1.4	1	<b>10.6</b>	<b>4.54</b>	44.9	<b>86</b>	66.5	<b>471</b>	200	42
TC6W-204 06OR-44	6	40.8	95.7	46	79.6	1.7	1	<b>10.8</b>	<b>4.60</b>	44.9	<b>118</b>	72.3	<b>528</b>	<b>173</b>	39
TC6W-205 06OR-45	6	34.4	92.6	37	77.9	1.9	1	12.2	4.99	43.9	145	75.0	<b>440</b>	198	51
TC6W-206 06OR-46	6	30.5	*82.5	42	80.7	1.7	1	<b>10.5</b>	<b>4.45</b>	44.0	143	73.8	<b>241</b>	<b>184</b>	45
TC6W-207 06OR-47	6	35.3	93.5	32	82.0	2.1	1	<b>9.7</b>	<b>4.18</b>	44.2	<b>91</b>	72.4	<b>480</b>	<b>158</b>	39
TC6W-208 06OR-51	6	36.4	96.3	48	80.5	1.8	1	<b>10.8</b>	<b>4.76</b>	45.7	129	67.6	<b>439</b>	<b>185</b>	43
TC6W-209 06OR-52	6	38.0	95.0	44	78.8	1.9	1	<b>11.4</b>	4.81	45.6	<b>115</b>	72.3	<b>418</b>	192	42
TC6W-210 06OR-57	6	34.6	94.5	32	79.4	1.8	1	<b>11.2</b>	<b>4.66</b>	43.1	143	67.3	<b>507</b>	<b>182</b>	46
TC6W-211 06OR-58	6	34.8	95.3	36	78.4	1.9	1	13.0	5.08	<b>39.4</b>	<b>96</b>	65.7	<b>553</b>	202	44
TC6W-212 06OR-59	6	35.5	96.7	29	78.4	2.1	2	13.1	4.95	<b>39.3</b>	<b>90</b>	57.9	<b>498</b>	195	41
TC6W-213 06OR-62	6	36.4	96.9	41	80.0	1.7	1	11.9	4.98	42.7	125	72.3	<b>499</b>	192	54
TC6W-214 06OR-75	6	35.7	93.4	40	78.6	2.1	1	<b>11.3</b>	5.24	<b>47.5</b>	126	78.6	<b>362</b>	216	47
TC6W-215 06OR-76	6	35.0	97.3	36	81.4	1.7	1	<b>11.4</b>	<b>4.55</b>	43.3	126	69.4	<b>432</b>	<b>177</b>	43
TC6W-216 06OR-78	6	36.8	92.7	35	<b>77.5</b>	1.7	1	13.3	5.21	<b>39.7</b>	168	73.3	<b>481</b>	211	48
TC6W-217 06OR-79	6	38.1	97.4	35	80.8	1.8	1	11.9	4.95	42.6	<b>116</b>	67.9	<b>416</b>	202	52
TC6W-218 06OR-87	6	31.8	92.1	38	<b>77.4</b>	n.d.	3	12.4	<b>4.46</b>	<b>37.5</b>	122	53.5	<b>567</b>	<b>170</b>	30
TC6W-219 06OR-91	6	34.7	93.9	40	78.3	1.9	1	<b>11.1</b>	5.13	<b>49.0</b>	146	64.3	<b>329</b>	208	46
TC6W-220 06OR-95	6	39.2	97.0	37	*73.7	n.d.	3	<b>10.8</b>	<b>3.19</b>	<b>30.6</b>	<b>94</b>	<b>26.2</b>	<b>909</b>	<b>93</b>	15
TC6W-221 07OR-3	6	32.9	96.5	29	79.4	2.0	1	11.6	5.08	44.3	143	91.1	<b>517</b>	214	59
TC6W-222 07OR-4	6	37.2	98.1	30	81.7	2.2	1	<b>11.1</b>	5.21	<b>48.4</b>	132	92.7	<b>421</b>	226	50
TC6W-223 07OR-5	6	33.9	97.0	26	81.3	2.1	1	11.6	5.28	<b>47.8</b>	136	102.3	<b>401</b>	216	55
TC6W-224 07OR-6	6	34.6	96.9	26	81.3	2.0	1	<b>11.2</b>	5.03	<b>47.9</b>	123	96.9	<b>434</b>	217	46
TC6W-225 07OR-7	6	37.7	98.0	29	81.3	2.0	1	<b>10.8</b>	5.18	<b>51.1</b>	<b>117</b>	91.3	<b>305</b>	226	42
TC6W-226 07OR-8	6	34.4	97.3	27	81.3	2.1	1	<b>11.1</b>	5.04	<b>48.7</b>	<b>120</b>	94.9	<b>473</b>	210	42
TC6W-227 07OR-9	6	34.1	96.4	28	81.7	2.1	1	<b>11.1</b>	5.14	<b>48.9</b>	129	94.3	<b>476</b>	212	46
TC6W-228 07OR-21	6	34.9	*88.3	43	78.6	1.7	1	12.2	4.90	<b>41.0</b>	155	67.2	<b>552</b>	<b>186</b>	46
TC6W-229 07OR-55	6	38.9	98.0	43	81.4	1.6	1	<b>9.7</b>	<b>4.07</b>	43.8	<b>112</b>	60.8	<b>403</b>	<b>139</b>	39
TC6W-230 07OR-57	6	35.1	95.4	45	81.4	1.8	1	<b>10.2</b>	<b>4.31</b>	44.0	<b>91</b>	57.0	<b>524</b>	<b>162</b>	39
TC6W-231 07OR-58	6	36.0	93.3	41	81.3	1.6	1	<b>10.3</b>	<b>4.13</b>	42.3	<b>87</b>	57.9	<b>618</b>	<b>152</b>	39
TC6W-232 07OR-59	6	37.1	97.4	40	81.2	1.7	1	<b>10.4</b>	<b>4.21</b>	42.2	<b>92</b>	53.5	<b>524</b>	<b>152</b>	39
TC6W-233 07OR-62	6	31.1	92.3	29	81.6	1.8	1	<b>10.2</b>	<b>4.41</b>	<b>47.6</b>	126	80.9	<b>276</b>	<b>176</b>	37
TC6W-234 07OR-63	6	39.9	92.0	45	80.7	1.6	1	<b>10.9</b>	<b>4.26</b>	<b>39.9</b>	<b>99</b>	63.2	<b>670</b>	<b>152</b>	34

TC6W-235 07OR-64	6	31.3	89.7	32	81.4	1.9	1	<b>9.8</b>	<b>4.63</b>	<b>48.6</b>	137	98.8	<b>271</b>	<b>186</b>	37
TC6W-236 07OR-65	6	37.8	97.2	43	81.6	2.1	2	<b>11.5</b>	<b>4.21</b>	<b>39.8</b>	<b>112</b>	54.8	<b>669</b>	<b>141</b>	33
TC6W-237 08OR-30	6	37.8	96.7	48	79.4	1.6	1	<b>10.0</b>	<b>3.84</b>	<b>40.3</b>	<b>94</b>	60.5	<b>458</b>	<b>124</b>	34
TC6W-238 08OR-40	6	43.3	98.4	42	79.1	1.4	1	11.8	<b>4.30</b>	<b>38.0</b>	<b>116</b>	60.6	<b>738</b>	<b>145</b>	39
TC6W-239 08OR-41	6	40.4	96.4	39	80.9	1.9	1	<b>11.2</b>	<b>4.51</b>	42.0	<b>90</b>	59.3	<b>582</b>	<b>180</b>	39
TC6W-240 08OR-44	6	41.9	97.8	41	82.0	1.7	1	<b>9.9</b>	<b>3.91</b>	42.2	<b>111</b>	73.6	<b>649</b>	<b>149</b>	39
TC6W-241 08OR-45	6	46.1	98.7	41	81.8	1.6	1	<b>9.8</b>	<b>3.86</b>	<b>41.5</b>	<b>81</b>	55.9	<b>598</b>	<b>133</b>	34
TC6W-242 08OR-46	6	41.5	97.3	39	80.8	1.5	1	<b>11.2</b>	<b>4.20</b>	<b>38.9</b>	<b>87</b>	60.3	<b>614</b>	<b>148</b>	34
TC6W-243 08OR-47	6	40.2	98.2	39	80.9	1.6	1	11.6	<b>4.08</b>	<b>36.8</b>	<b>92</b>	63.5	<b>525</b>	<b>153</b>	39
TC6W-244 08OR-48	6	37.4	98.0	30	80.9	1.6	1	<b>11.3</b>	<b>4.23</b>	<b>40.9</b>	<b>110</b>	64.3	<b>408</b>	<b>158</b>	34
TC6W-245 08OR-49	6	35.9	97.6	36	79.6	1.9	2	11.9	<b>4.01</b>	<b>36.2</b>	<b>89</b>	53.9	<b>688</b>	<b>152</b>	38
TC6W-246 08OR-50	6	40.8	98.9	29	80.3	1.6	1	12.0	<b>4.31</b>	<b>37.3</b>	<b>112</b>	67.4	<b>446</b>	<b>152</b>	39
TC6W-247 08OR-52	6	40.2	97.9	36	79.3	1.6	1	11.9	<b>4.33</b>	<b>38.0</b>	133	60.0	<b>624</b>	<b>157</b>	43
TC6W-248 08OR-53	6	36.7	96.3	38	80.1	2.0	2	11.7	<b>3.96</b>	<b>36.0</b>	<b>85</b>	53.2	<b>608</b>	<b>149</b>	38
TC6W-249 08OR-54	6	40.5	98.2	32	78.9	1.6	1	12.2	<b>4.46</b>	<b>38.8</b>	<b>100</b>	68.8	<b>521</b>	<b>166</b>	36
TC6W-250 08OR-56	6	43.6	97.3	36	80.6	1.8	1	<b>11.4</b>	5.01	44.1	146	74.5	<b>297</b>	213	54
TC6W-251 08OR-58	6	41.6	99.4	31	<b>77.0</b>	1.5	1	13.5	4.81	<b>37.8</b>	156	58.4	<b>564</b>	<b>176</b>	34
TC6W-252 08OR-69	6	35.0	94.3	36	79.2	1.8	1	12.4	5.34	46.5	123	75.9	<b>177</b>	213	60
TC6W-253 08OR-73	6	38.4	97.9	31	81.7	1.6	1	<b>10.2</b>	<b>4.40</b>	46.7	120	90.3	155	196	49
TC6W-254 08OR-79	6	35.2	96.4	36	79.8	1.7	1	13.1	5.54	43.8	154	92.0	<b>294</b>	236	63
TC6W-255 08OR-80	6	33.3	93.9	33	80.5	1.8	1	<b>11.5</b>	4.95	45.0	163	82.9	<b>295</b>	205	54
TC6W-256 08OR-81	6	37.8	95.2	36	81.0	1.8	1	<b>11.4</b>	4.80	42.5	144	66.9	<b>371</b>	193	52
TC6W-257 08OR-96	6	33.9	*82.6	*6	83.4	1.0	1	13.0	<b>4.02</b>	<b>32.2</b>	<b>109</b>	51.2	<b>483</b>	<b>121</b>	37
TC6W-258 2011-Short-8	6	29.9	90.6	26	82.3	2.0	1	11.8	5.20	46.6	141	92.7	<b>267</b>	225	60
TC6W-259 2011-Short-9	6	<b>27.7</b>	*76.4	27	79.7	2.3	1	12.4	5.63	46.9	156	102.8	<b>221</b>	247	56
TC6W-260 2011-Short-11	6	28.4	*87.6	23	81.2	2.2	1	12.8	5.65	45.6	171	99.9	<b>184</b>	231	60
TC6W-261 2011-Short-12	6	30.8	*88.3	25	82.0	2.0	1	12.2	5.26	45.5	160	89.5	<b>268</b>	230	62
TC6W-262 2011-Short-13	6	31.8	*86.4	28	81.9	2.0	1	12.5	5.24	43.4	155	81.6	<b>302</b>	222	62
TC6W-263 2011-Short-14	6	33.4	90.5	32	82.5	1.8	1	12.7	5.33	43.5	159	83.1	<b>261</b>	235	63
TC6W-264 2011-Short-15	6	35.3	93.5	27	81.8	1.8	1	12.5	5.45	44.6	159	81.5	<b>212</b>	244	63
TC6W-265 2011-Short-16	6	30.5	*87.3	23	81.4	2.0	1	13.7	5.61	43.3	151	86.1	<b>335</b>	248	57
TC6W-266 MW10S4116-001	6	42.2	97.4	25	80.6	*2.6	1	12.7	5.78	<b>49.2</b>	142	81.6	<b>240</b>	229	54
TC6W-267 MW10S4116-002	6	43.6	98.6	25	78.3	2.2	1	13.4	5.95	<b>47.7</b>	159	75.9	<b>376</b>	244	51
TC6W-268 MW10S4116-003	6	41.3	97.7	27	79.7	2.4	1	13.4	<b>6.12</b>	<b>49.2</b>	147	92.1	<b>324</b>	252	51
TC6W-269 MW10S4116-004	6	42.2	97.2	26	80.9	1.6	1	12.0	<b>4.78</b>	42.9	<b>91</b>	72.3	<b>383</b>	<b>182</b>	44
TC6W-270 MW10S4116-005	6	45.5	98.9	17	79.8	2.0	1	12.9	5.50	45.2	<b>84</b>	69.6	<b>580</b>	219	56
TC6W-271 MW10S4118-001	6	44.2	98.2	25	78.6	1.8	1	13.9	5.42	<b>39.4</b>	185	63.4	<b>545</b>	198	48
TC6W-272 MW10S4118-002	6	40.5	98.6	21	81.0	2.0	1	<b>10.9</b>	5.13	<b>48.1</b>	130	79.7	<b>354</b>	216	46
TC6W-273 MW10S4118-003	6	37.1	94.7	24	79.2	1.9	1	13.5	5.60	44.8	159	65.4	<b>439</b>	212	63
TC6W-274 MW10S4118-004	6	37.3	94.1	28	79.6	1.7	1	12.4	5.29	43.1	169	64.0	<b>405</b>	207	63

TC6W-275	MW10S4118-005	6	36.0	94.8	29	78.1	1.9	1	12.5	5.36	46.4	151	72.8	<b>453</b>	220	57
TC6W-276	MW10S4118-006	6	42.0	97.7	24	80.9	2.1	1	12.0	5.29	45.3	123	81.8	<b>354</b>	215	60
TC6W-277	MW10S4120-001	6	33.0	93.4	28	79.7	1.8	1	<b>11.5</b>	5.20	46.3	141	75.6	<b>408</b>	213	58
TC6W-278	MW10S4120-002	6	29.2	91.7	35	78.2	2.0	1	12.3	5.59	<b>49.3</b>	162	72.9	<b>337</b>	214	49
TC6W-279	MW10S4120-003	6	<b>27.7</b>	*83.6	28	78.7	1.8	1	13.6	5.75	45.0	175	70.7	<b>426</b>	226	46
TC6W-280	MW10S4120-004	6	<b>25.5</b>	*68.6	29	<b>76.3</b>	2.5	1	13.1	5.87	45.2	181	87.1	<b>347</b>	249	39
TC6W-281	MW10S4120-005	6	37.0	96.0	30	81.0	2.0	1	11.9	5.68	<b>50.2</b>	163	76.9	<b>463</b>	243	58
TC6W-282	MW10S4120-006	6	34.2	93.0	26	80.7	1.9	1	12.8	5.93	46.8	164	78.0	<b>434</b>	243	59
TC6W-283	MW10S4120-007	6	31.9	*88.7	29	80.2	1.6	1	12.8	5.37	44.6	159	68.0	<b>546</b>	219	62
TC6W-284	MW10S4120-008	6	31.9	95.5	28	79.5	1.8	1	12.7	5.83	<b>48.3</b>	*206	83.2	<b>388</b>	247	53
TC6W-285	MW10S4122-001	6	39.1	93.0	26	79.1	2.2	1	13.7	5.96	45.9	182	83.7	<b>365</b>	256	54
TC6W-286	MW10S4122-002	6	37.4	97.5	32	80.5	2.0	2	13.0	5.86	46.1	146	82.0	<b>412</b>	242	58
TC6W-287	MW10S4122-003	6	35.0	93.6	32	79.9	1.7	1	13.2	5.60	43.9	171	65.7	<b>370</b>	227	63
TC6W-288	MW10S4122-004	6	33.2	93.9	27	80.0	2.2	1	12.0	5.78	<b>49.8</b>	150	88.3	<b>412</b>	252	54
TC6W-289	MW10S4122-005	6	28.6	*88.0	28	78.5	1.7	1	<b>14.0</b>	5.60	42.2	170	69.7	<b>488</b>	221	47
TC6W-290	MW10S4122-006	6	38.2	97.1	32	80.1	2.0	1	12.9	5.70	46.1	142	78.4	<b>418</b>	236	59
TC6W-291	MW10S4122-007	6	36.9	93.9	30	80.7	2.2	1	11.7	5.42	<b>49.7</b>	121	80.5	<b>438</b>	236	55
TC6W-292	MW10S4122-008	6	32.5	90.4	33	80.9	2.3	1	12.0	5.83	<b>51.7</b>	136	90.3	<b>342</b>	253	51
TC6W-293	MW09S4076-001	6	34.7	94.2	30	78.7	1.7	1	13.5	5.46	<b>41.9</b>	147	78.5	<b>622</b>	207	50
TC6W-294	MW09S4076-002	6	34.8	97.2	20	<b>76.0</b>	2.0	1	11.6	4.94	44.5	135	69.8	<b>564</b>	200	44
TC6W-295	MW09S4078-001	6	32.5	96.2	30	<b>77.2</b>	2.1	2	12.1	<b>4.14</b>	<b>35.8</b>	123	45.5	<b>563</b>	<b>146</b>	29
TC6W-296	MW09S4078-002	6	33.2	95.9	26	79.1	2.4	1	12.7	5.68	46.8	121	90.9	<b>487</b>	241	60
TC6W-297	MW09S4080-001	6	<b>27.9</b>	*85.4	28	79.9	1.9	1	11.8	4.91	44.1	136	73.7	<b>359</b>	206	51
TC6W-298	MW09S4082-001	6	36.5	97.7	35	80.3	1.7	1	<b>9.8</b>	<b>4.52</b>	<b>48.3</b>	151	86.8	<b>193</b>	<b>187</b>	41
TC6W-299	MW09S4085-001	6	36.6	98.2	34	79.6	2.0	1	<b>11.3</b>	4.89	44.7	<b>84</b>	69.5	<b>553</b>	206	47
TC6W-300	MW09S4086-001	6	33.9	94.8	32	81.3	2.1	1	<b>10.8</b>	5.15	<b>47.6</b>	<b>95</b>	80.3	<b>540</b>	196	40



## MQ Table 11. Waxy Food DH HRBIN Entry list for 2011-12

(2011-12 Waxy Food Double Haploid Head Row Bulk Increase)

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Entry	Name	Type	Use	Parentage
9	10.0663	2	Food	KW2-849 x (Luca/Waxbar/Luca8)
10	10.0664	2	Food	KW2-849 x (Luca/Waxbar/Luca8)
11	10.0671	2	Food	KW2-849 x (Luca/Waxbar/Luca8)
12	10.0672	2	Food	KW2-849 x (Luca/Waxbar/Luca8)
13	10.0681	2	Food	KW2-849 x (Luca/Waxbar/Luca8)
14	10.0684	2	Food	KW2-849 x (Luca/Waxbar/Luca8)
19	10.0695	2	Food	KW2-849 x (Luca/Waxbar/Luca8)
20	10.0696	2	Food	KW2-849 x (Luca/Waxbar/Luca8)
24	10.0908	2	Food	KW2-849 x (Luca/Waxbar/Luca8)
27	10.0910	2	Food	KW2-849 x (Luca/Waxbar/Luca8)
28	10.0912	2	Food	KW2-849 x (Luca/Waxbar/Luca8)
31	10.0931	2	Food	KW2-849 x (Luca/Waxbar/Luca8)
33	10.0939	2	Food	KW2-849 x (Luca/Waxbar/Luca8)
35	10.0942	2	Food	KW2-849 x (Luca/Waxbar/Luca8)
37	10.0955	2	Food	KW2-849 x (Luca/Waxbar/Luca8)
38	10.0956	2	Food	KW2-849 x (Luca/Waxbar/Luca8)
44	10.0970	2	Food	KW2-849 x (Luca/Waxbar/Luca8)
47	10.0977	2	Food	KW2-849 x (Luca/Waxbar/Luca8)
48	10.0978	2	Food	KW2-849 x (Luca/Waxbar/Luca8)
50	10.0981	2	Food	KW2-849 x (Luca/Waxbar/Luca8)
52	10.0983	2	Food	KW2-849 x (Luca/Waxbar/Luca8)
58	10.1059	2	Food	KW2-849 x (Luca/Waxbar/Luca)
59	10.1067	2	Food	KW2-849 x (Luca/Waxbar/Luca)

## MQ Table 12. Waxy Food DH HRBIN for Corvallis, OR in 2011-12

(2011-12 Waxy Food Double Haploid Head Row Bulk Increase)

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)	Quality Score
1 10.0663	2	41.8	97.0	28	79.2	<b>3.5</b>	2	11.2	<b>3.84</b>	<b>35.6</b>	<b>64</b>	<b>39.9</b>	<b>557</b>	<b>140</b>	24
2 10.0664	2	46.6	98.5	37	79.9	2.1	1	<b>10.9</b>	4.09	<b>38.7</b>	<b>94</b>	49.9	<b>665</b>	<b>156</b>	31
3 10.0671	2	41.4	97.8	36	78.5	2.6	1	12.2	4.58	<b>39.5</b>	<b>80</b>	52.7	<b>737</b>	<b>168</b>	39
4 10.0672	2	41.4	97.7	27	79.6	1.5	1	11.4	<b>3.97</b>	<b>37.0</b>	<b>64</b>	50.0	<b>819</b>	<b>152</b>	32
5 10.0681	2	<b>37.1</b>	93.1	37	79.2	<b>3.5</b>	2	<b>9.7</b>	<b>3.47</b>	<b>37.0</b>	<b>47</b>	41.8	<b>635</b>	<b>109</b>	19
6 10.0684	2	<b>36.7</b>	94.5	31	78.2	<b>3.8</b>	2	<b>10.1</b>	<b>3.25</b>	<b>32.8</b>	<b>39</b>	<b>29.3</b>	<b>659</b>	<b>107</b>	15
7 10.0695	2	44.1	98.7	37	80.6	2.7	1	<b>10.2</b>	4.34	43.2	<b>97</b>	50.5	<b>364</b>	<b>165</b>	39
8 10.0696	2	44.7	97.4	46	80.2	2.2	1	<b>9.8</b>	<b>3.75</b>	41.6	<b>82</b>	46.1	<b>558</b>	<b>139</b>	33
9 10.0908	2	<b>31.8</b>	93.9	39	79.5	<b>4.0</b>	1	<b>10.3</b>	<b>3.96</b>	41.3	<b>78</b>	53.4	<b>335</b>	<b>156</b>	31
10 10.0910	2	39.0	93.9	45	<b>77.5</b>	<b>4.3</b>	1	11.9	<b>3.87</b>	<b>34.4</b>	<b>76</b>	<b>38.2</b>	<b>610</b>	<b>121</b>	19
11 10.0912	2	45.4	98.3	42	79.3	2.1	1	12.0	4.39	<b>39.8</b>	<b>59</b>	49.8	<b>766</b>	<b>169</b>	33
12 10.0931	2	43.7	98.7	33	82.3	2.1	1	<b>10.2</b>	4.67	<b>47.9</b>	<b>59</b>	62.5	<b>179</b>	194	46
13 10.0939	2	49.6	98.9	40	*75.9	2.2	1	12.5	<b>3.72</b>	<b>31.1</b>	<b>80</b>	<b>35.3</b>	<b>936</b>	<b>110</b>	22
14 10.0942	2	<b>33.2</b>	*91.4	46	78.7	<b>4.6</b>	2	<b>10.5</b>	<b>3.64</b>	<b>36.4</b>	<b>62</b>	40.5	<b>697</b>	<b>117</b>	19
15 10.0955	2	43.2	98.9	43	79.6	2.0	1	<b>10.9</b>	<b>3.82</b>	<b>35.0</b>	<b>52</b>	46.0	<b>762</b>	<b>140</b>	28
16 10.0956	2	44.0	98.0	44	80.4	1.9	1	11.4	4.51	41.5	<b>81</b>	53.3	<b>557</b>	<b>166</b>	48
17 10.0970	2	<b>37.7</b>	96.6	43	79.7	2.5	1	<b>10.6</b>	<b>3.96</b>	<b>37.5</b>	<b>49</b>	41.1	<b>500</b>	<b>135</b>	23
18 10.0977	2	43.3	97.6	43	<b>77.0</b>	2.4	1	<b>10.9</b>	<b>3.81</b>	<b>35.2</b>	<b>60</b>	41.0	<b>856</b>	<b>131</b>	21
19 10.0978	2	41.6	98.5	34	80.5	2.8	2	<b>10.1</b>	<b>3.75</b>	40.7	<b>49</b>	48.1	<b>552</b>	<b>140</b>	31
20 10.0981	2	39.8	97.2	40	80.2	<b>4.1</b>	2	<b>10.3</b>	4.19	40.8	<b>59</b>	58.5	<b>326</b>	<b>155</b>	35
21 10.0983	2	44.5	98.5	37	79.6	2.0	1	12.0	4.06	<b>35.0</b>	<b>89</b>	53.3	<b>791</b>	<b>134</b>	39
22 10.1059	2	<b>34.6</b>	97.3	42	79.2	2.3	1	*13.4	5.22	41.5	104	59.2	<b>738</b>	181	42
23 10.1067	2	38.7	98.4	27	78.3	<b>3.2</b>	2	11.4	<b>3.77</b>	<b>33.6</b>	126	<b>38.0</b>	<b>907</b>	<b>125</b>	29

## MQ Table 13. Non-Waxy Food DH HRBIN Entry list for 2011-12

(2011-12 Non-Waxy Food Double Haploid Head Row Bulk Increase)

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Entry	Name	Type	Use	Parentage
5	10.0667	2	Food	KW2-849 x (Luca/Waxbar/Luca8)
9	10.0901	2	Food	KW2-849 x (Luca/Waxbar/Luca8)
10	10.0904	2	Food	KW2-849 x (Luca/Waxbar/Luca8)
12	10.0914	2	Food	KW2-849 x (Luca/Waxbar/Luca8)
14	10.0923	2	Food	KW2-849 x (Luca/Waxbar/Luca8)
15	10.0925	2	Food	KW2-849 x (Luca/Waxbar/Luca8)
16	10.0926	2	Food	KW2-849 x (Luca/Waxbar/Luca8)
19	10.0944	2	Food	KW2-849 x (Luca/Waxbar/Luca8)
20	10.0945	2	Food	KW2-849 x (Luca/Waxbar/Luca8)
21	10.0959	2	Food	KW2-849 x (Luca/Waxbar/Luca8)
28	10.0988	2	Food	KW2-849 x (Luca/Waxbar/Luca8)
32	10.1044	2	Food	KW2-849 x (Luca/Waxbar/Luca)

## MQ Table 14. Non-Waxy Food DH HRBIN for Corvallis, OR in 2011-12

(2011-12 Non-Waxy Food Double Haploid Head Row Bulk Increase)

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)	Quality Score
1 10.0667	2	46.3	98.8	30	79.0	<b>3.8</b>	2	11.5	<b>3.75</b>	<b>34.6</b>	<b>95</b>	<b>37.8</b>	<b>302</b>	<b>118</b>	25
2 10.0901	2	46.5	98.1	32	80.6	2.9	1	<b>10.4</b>	4.11	42.5	117	55.0	96	<b>155</b>	50
3 10.0904	2	40.8	97.3	31	80.8	2.7	1	<b>10.9</b>	4.74	44.9	<b>94</b>	57.7	79	<b>163</b>	49
4 10.0914	2	42.9	98.0	31	81.0	<b>3.9</b>	2	<b>10.1</b>	<b>3.60</b>	<b>38.1</b>	<b>73</b>	40.7	<b>156</b>	<b>123</b>	30
5 10.0923	2	44.4	98.1	29	80.0	2.6	1	<b>10.5</b>	4.40	42.1	161	49.9	134	<b>161</b>	46
6 10.0925	2	39.0	96.2	31	81.1	3.0	1	<b>9.7</b>	4.02	44.0	<b>83</b>	48.4	75	<b>150</b>	43
7 10.0926	2	46.0	98.0	26	79.8	<b>3.4</b>	1	<b>10.8</b>	<b>3.68</b>	<b>35.2</b>	122	<b>39.8</b>	<b>419</b>	<b>104</b>	31
8 10.0944	2	46.2	97.1	30	80.3	2.0	1	<b>10.9</b>	4.40	40.7	140	54.7	<b>375</b>	<b>154</b>	46
9 10.0945	2	<b>36.6</b>	94.3	31	80.5	<b>3.3</b>	1	<b>9.6</b>	<b>3.78</b>	42.2	132	59.3	86	<b>142</b>	45
10 10.0959	2	40.0	96.9	30	79.9	<b>5.0</b>	2	<b>10.7</b>	<b>3.97</b>	<b>38.9</b>	107	42.2	34	<b>128</b>	35
11 10.0988	2	40.5	97.2	28	80.9	2.6	1	<b>10.5</b>	4.37	43.4	153	56.0	71	<b>154</b>	52
12 10.1044	2	44.8	98.9	24	81.8	2.3	1	<b>11.0</b>	4.80	44.4	201	55.0	54	<b>171</b>	60

## MQ Table 15. Miscellaneous Entry list for 2011-12

	Variety	Type	Use	Parentage	Notes
1	OR101-Drill Strip block	6	Malting	StabBC 42-3-9/3/Kab51/Legacy//Kab51	2-10 HR
2	Maja - 1	6	Malting	Strider/88Ab536	2X Fungicide
3	Maja - 2	6	Malting	Strider/88Ab536	1X Fungicide
4	OBADV14 - Drill Strip block	6	Malting	NB3437f/OR71	4-12
5	Maja - 3	6	Malting	Strider/88Ab536	LB DS
6	Endeavor	2	Malting		CPS DS
7	Maja - 4	6	Malting	Strider/88Ab536	LB Spring Bulk
8	Full Pint - organic LB Farm	2	Malting		LB Spring Bulk

**MQ Table 16. Miscellaneous for Corvallis, OR in 2011-12**

Variety	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)	Quality Score
1 OR101-Drill Strip block	6	37.5	97.9	43	79.9	2.2	2	<b>10.4</b>	<b>4.49</b>	44.8	130	51.9	<b>338</b>	<b>163</b>	42
2 Maja - 1	6	30.5	91.5	41	81.0	1.6	1	<b>9.5</b>	<b>4.22</b>	<b>48.1</b>	128	65.2	121	<b>177</b>	40
3 Maja - 2	6	28.2	*80.8	39	78.9	1.8	1	<b>11.3</b>	<b>4.73</b>	43.7	158	64.3	<b>184</b>	206	45
4 OBADV14 - Drill Strip block	6	28.7	*84	*49	*70.8	2.7	2	12.6	<b>3.49</b>	<b>29.3</b>	<b>99</b>	<b>27.8</b>	*773	<b>109</b>	18
5 Maja - 3	6	<b>25.8</b>	*75.5	*54	79.2	1.7	1	<b>10.4</b>	<b>4.43</b>	45.5	130	62.5	155	199	42
6 Endeavor	2	<b>35.9</b>	95.3	38	83.6	2.0	1	<b>8.7</b>	4.72	<b>59.3</b>	104	108.4	99	200	52
7 Maja - 4	6	31.7	84.3	*61	78.7	1.7	1	<b>9.8</b>	<b>4.33</b>	<b>48.0</b>	<b>97</b>	67.6	<b>272</b>	<b>170</b>	30
8 Full Pint - organic LB Farm	2	41.4	94.4	*64	81.1	1.6	1	<b>9.9</b>	4.47	<b>48.4</b>	106	94.8	141	180	50

## MQ Table 17. Maja seeding rates Entry list for 2011-12

Name	Type	Use	Parentage	Notes
Maja T1-R1	6	Malting	Strider/88Ab536	680000 sds/acre
Maja T2-R1	6	Malting	Strider/88Ab537	800000 sds/acre
Maja T3-R1	6	Malting	Strider/88Ab538	920000 sds/acre
Maja T4-R1	6	Malting	Strider/88Ab539	1040000 sds/acre
Maja T1-R2	6	Malting	Strider/88Ab541	680000 sds/acre
Maja T2-R2	6	Malting	Strider/88Ab542	800000 sds/acre
Maja T3-R2	6	Malting	Strider/88Ab543	920000 sds/acre
Maja T4-R2	6	Malting	Strider/88Ab544	1040000 sds/acre
Maja T1-R3	6	Malting	Strider/88Ab546	680000 sds/acre
Maja T2-R3	6	Malting	Strider/88Ab547	800000 sds/acre
Maja T3-R3	6	Malting	Strider/88Ab548	920000 sds/acre
Maja T4-R3	6	Malting	Strider/88Ab549	1040000 sds/acre
Maja T1-R4	6	Malting	Strider/88Ab551	680000 sds/acre
Maja T2-R4	6	Malting	Strider/88Ab552	800000 sds/acre
Maja T3-R4	6	Malting	Strider/88Ab553	920000 sds/acre
Maja T4-R4	6	Malting	Strider/88Ab554	1040000 sds/acre

**MQ Table 18. Maja seeding rates for Corvallis, OR in 2011-12**

Name	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (°ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Quality Score
Maja T1-R1	6	39.5	96.7	46	77.9	n.d.	3	<b>14.3</b>	<b>4.60</b>	<b>34.5</b>	150	59.6	141	<b>163</b>	31
Maja T2-R1	6	37.6	92.2	56	79.1	n.d.	3	<b>11.2</b>	<b>4.30</b>	<b>38.8</b>	<b>103</b>	57.6	139	<b>155</b>	35
Maja T3-R1	6	36.2	94.7	56	79.4	n.d.	3	<b>10.5</b>	<b>4.11</b>	42.6	<b>98</b>	56.8	83	<b>155</b>	44
Maja T4-R1	6	36.4	95.2	45	78.6	n.d.	3	12.3	<b>4.46</b>	<b>38.6</b>	120	57.4	130	<b>165</b>	41
Maja T1-R2	6	36.8	94.9	48	79.2	n.d.	3	<b>11.3</b>	<b>4.19</b>	<b>38.7</b>	<b>109</b>	57.7	137	<b>159</b>	35
Maja T2-R2	6	37.8	96.5	51	79.2	n.d.	3	11.6	<b>3.82</b>	<b>35.9</b>	<b>104</b>	52.5	92	<b>139</b>	44
Maja T3-R2	6	34.5	94.6	56	80.3	n.d.	3	<b>9.4</b>	<b>3.69</b>	<b>41.8</b>	<b>85</b>	52.5	63	<b>135</b>	39
Maja T4-R2	6	35.9	94.3	55	80.2	n.d.	3	<b>9.9</b>	<b>3.73</b>	<b>41.2</b>	<b>89</b>	51.2	81	<b>138</b>	39
Maja T1-R3	6	38.6	96.8	45	<b>77.4</b>	<b>3.3</b>	2	13.5	<b>4.51</b>	<b>34.0</b>	126	53.0	<b>203</b>	<b>161</b>	27
Maja T2-R3	6	36.4	94.3	51	79.0	n.d.	3	<b>11.3</b>	<b>4.49</b>	<b>41.2</b>	<b>100</b>	59.2	114	<b>168</b>	39
Maja T3-R3	6	37.2	95.5	46	<b>77.7</b>	2.6	1	13.4	<b>4.71</b>	<b>35.7</b>	131	60.2	170	<b>178</b>	36
Maja T4-R3	6	37.4	96.2	43	77.9	2.6	1	13.2	<b>4.70</b>	<b>36.5</b>	136	64.1	130	<b>185</b>	40
Maja T1-R4	6	36.4	96.6	44	79.1	<b>3.4</b>	2	12.1	<b>4.22</b>	<b>37.8</b>	<b>114</b>	56.9	132	<b>160</b>	41
Maja T2-R4	6	35.2	95.1	41	79.3	3.0	2	11.6	<b>4.39</b>	<b>40.2</b>	<b>112</b>	59.3	130	<b>167</b>	41
Maja T3-R4	6	35.5	95.6	45	79.0	2.6	2	11.7	<b>4.37</b>	<b>37.6</b>	<b>110</b>	56.8	138	<b>165</b>	38
Maja T4-R4	6	35.9	95.7	45	78.3	n.d.	3	12.9	<b>4.66</b>	<b>37.1</b>	123	60.1	120	<b>178</b>	41



## MQ Table 20. Wintmalt Crosses Entry list for 2011-12

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Entry	Name	Type	Use	Parentage
1	10.0856	2	Malting	Wintmalt/Charles
2	10.0844	2	Malting	Wintmalt/Bari 2B08-3149
3	10.0764	2	Malting	Wintmalt/Bari 2B08-3149
4	10.0777	2	Malting	Wintmalt/Charles
5	10.086	2	Malting	Wintmalt/Charles
6	10.074	2	Malting	Wintmalt/Bari 2B08-3149
7	10.0739	2	Malting	Wintmalt/Bari 2B08-3149
8	10.0627	2	Malting	Wintmalt/Bari 2B08-3145
9	10.0761	2	Malting	Wintmalt/Bari 2B08-3149
10	10.0849	2	Malting	Wintmalt/Charles
11	10.0834	2	Malting	Wintmalt/Bari 2B08-3145
12	10.0835	2	Malting	Wintmalt/Bari 2B08-3149
13	10.0782	2	Malting	Wintmalt/Charles
14	10.0852	2	Malting	Wintmalt/Charles
15	10.0787	2	Malting	Wintmalt/Charles
16	10.0736	2	Malting	Wintmalt/Bari 2B08-3149
17	Violetta	2	Malting	Violetta
18	Charles	2	Malting	Charles

**MQ Table 20. Wintmalt Crosses for Corvallis, OR in 2011-12**

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)	Quality Score
1 10.0856	2	41.5	98.0	34	84.0	1.7	1	9.9	4.90	54.1	150	82.6	38	225	59
2 10.0844	2	41.0	95.2	28	83.8	2.3	1	9.3	4.95	59.2	113	93.7	55	282	56
3 10.0764	2	34.9	96.7	25	83.7	2.2	1	8.4	4.67	60.7	105	109.1	23	246	52
4 10.0777	2	38.2	96.6	27	83.3	2.4	1	9.5	5.22	60.2	116	122.3	21	294	54
5 10.086	2	40.2	98.1	37	83.0	2.0	1	10.7	5.11	52.7	126	92.5	79	241	59
6 10.074	2	43.4	97.7	22	82.8	2.0	1	9.4	5.21	60.1	106	99.4	85	286	57
7 10.0739	2	44.1	96.3	26	82.6	2.4	1	8.9	4.98	58.1	106	99.1	42	276	57
8 10.0627	2	35.6	92.6	33	82.6	2.5	1	9.7	5.20	58.2	117	108.6	39	288	52
9 10.0761	2	40.4	96.8	28	82.3	2.4	1	8.9	4.98	61.1	75	98.0	30	279	52
10 10.0849	2	35.4	95.7	35	82.2	1.6	1	9.5	4.16	48.8	113	74.8	62	198	48
11 10.0834	2	39.6	95.1	26	82.2	1.6	1	10.1	4.45	48.7	116	62.7	37	219	54
12 10.0835	2	40.7	96.6	23	82.2	2.1	1	9.8	4.61	51.5	120	70.6	36	237	56
13 10.0782	2	36.2	96.1	33	81.8	2.2	1	10.1	5.26	55.9	126	100.7	71	272	55
14 10.0852	2	38.4	96.6	39	81.7	1.7	1	10.2	5.15	54.6	122	109.6	107	289	53
15 10.0787	2	37.5	97.1	27	81.4	1.3	1	9.7	3.91	42.6	115	53.3	123	178	41
16 10.0736	2	37.6	97.1	31	80.9	2.4	1	9.4	4.42	49.8	117	64.1	28	221	49
17 Violetta	2	42.7	99.1	26	80.9	1.7	1	11.6	4.77	43.4	202	54.9	149	187	61
18 Charles	2	25.8	*80.8	32	76.6	2.1	1	12.8	5.23	43.4	173	98.2	291	252	43