

BEER-4

American Society of Brewing Chemists
BEER CHECK SERVICE

12/31/2012

Sub #	Specific Gravity	Alcohol	Real Extract	Color	Bitterness Units	Protein	Reducing Sugars	Iron	Refractive Index	Copper	Diacetyl	Total Acidity
15	1.00559	3.25	2.96	3.54	7.40						24.900	
18	1.00558 AX	3.24 BX	2.96 CX	3.57 D1	7.46 E1							
64	1.00554 A2	3.31 B1	2.96 C1									0.23 LX
67	1.00548 AX	3.20 BX	2.89 CX	3.49 D1	5.00 E1							
83												
95	1.00549 AX	3.27 B5	2.94 CX	3.60 D1	7.00 E1	0.33 F1	0.77 G2	0.05 H2				
133	1.00524 A2	3.28 BX	2.89 CX	* 5.04 D1	6.69 E1			0.04 H2		0.04 J1	13.568 KX	0.11 L1
138	1.00560 A2	4.20 B5	* 1.44 CX	* 4.00 D1	6.00 E1		* 0.09 GX	0.04 HX		0.07 JX	15.000 K1	
143	1.00560 A2			3.69 DX	7.00 E1							0.23 L1
144	1.00561 A2	3.24 B5	2.96 CX	3.29 D1	4.65 E1							* 4.70 LX
149	1.00549 A2	3.25 B5	2.94 CX	3.60 D1	7.50 E1						1.000 KX	0.23 L1
153	1.00450 AX	4.21 B5		3.48 D1	* 13.60 E1							
157	* 1.06600 AX			3.73 D1	8.70 E1							
159	1.00561 A2	3.23 B1	2.96 C1	3.65 D1	7.00 E1	0.33 F1	0.79 G2	0.05 H1		0.04 J1	0.020 KX	0.11 L1
161	1.00525 A1	3.31 B2										
162	1.00558 A2	3.25 B5	2.96 C2	3.54 D1	7.80 E1	* 0.36 FX	0.78 G2	0.03 HX		0.02 J1	0.020 KX	0.12 L1
165	1.00564 AX	3.26 BX	2.98 CX	3.49 D1	7.86 E1						19.000 KX	0.22 LX
169	1.00596 A2	3.22 BX	2.95 CX	3.54 D1	7.19 E1	0.33 FX	0.86 G2	0.01 H2		0.03 J1	40.000 K1	0.11 L1
170	1.00530 A2	3.33 B5	2.96 CX	3.62 D1	7.69 E1							0.17 L1
171	* 1.00400 A2	2.90 BX		3.50 D1	6.30 E1							
173	1.00551 A2	3.20 BX	2.92 CX	3.40 D1	7.90 E1		0.68 G2	0.12 H1		0.00 J2		0.13 L2
176	1.00557 A2	3.26 B5	2.97 CX	3.65 D1	7.70 E1	0.33 FX	0.76 G2	0.03 H1		0.04 J1	20.000 KX	0.11 L1
177	1.00558 A2	3.24 B5	2.96 CX	3.50 D1	7.44 E1	0.33 FX	0.77 G2	0.08 H2		0.05 J1	21.510 KX	0.11 L1
181	1.00557 A2	4.11 B1	2.88 C1	3.43 D1	6.00 E1							

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Sub #	Specific Gravity	Alcohol	Real Extract	Color	Bitterness Units	Protein	Reducing Sugars	Iron	Refractive Index	Copper	Diacetyl	Total Acidity
N	21	21	17	19	20	5	7	9		8	10	12
Mean	1.00549	3.37	2.94	3.54	7.01	0.33	0.773	0.049		0.04	15.502	0.16
Min	1.00450	2.90	2.88	3.29	4.65	0.33	0.680	0.01		0.00	0.020	0.11
Max	1.00596	4.21	2.98	3.73	8.70	0.33	0.860	0.12		0.07	40.000	0.23
Std	0.00026	0.35	0.03	0.11	1.00	0.00	0.05	0.03		0.02	12.696	0.06

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Sub #	Calcium	Sodium	pH	Chloride	Foam Collapse Rate	SO ₂	Sulfate	Yeast Fermentable Extract	Air	CO ₂ Volume	Ash
15			4.20		210	0.95			0.40	2.60	
18			4.25 O1			0.99 R2			0.21 UX	2.54 VX	
64		73.0NX				* 2.00RX					
67			4.05OX		116 Q1				0.65 UX	2.68 VX	
83											
95	40.00 M1	NX	4.17 O1	97.0 PX		1.00 R1			0.20 UX	2.50 V1	0.12 W1
133			4.21 O1		122 QX					2.59 V1	
138	33.77 MX	81.8NX	4.18 O1	98.5 P3			346.8 S1		0.07 U1	2.67 VX	
143			4.33 O1						0.10 UX	2.70 VX	
144			4.21 O1							2.67 VX	
149			4.24 O1							2.50 VX	
153			4.19 O1								
157			4.05 O1								
159	33.00 MX		4.42 O1	96.0 P1	200 QX	1.00 R1			0.05 UX	2.71 V1	
161			4.17 O1					0.10 T1	0.25	2.65	0.13 W1
162	35.00 MX		4.24 O1	100.0 P1	212 QX	0.23 R1				2.60 V1 *	0.16 W1
165			4.22 O1						0.55 UX	2.61 VX	0.12 W1
169	83.00 M1	35.0 N1	4.22 O1	100.0 P1	230 Q2	1.00 R1					
170			4.22 O1					0.20 TX	0.30 UX	2.70 V1	0.11 W1
171			4.45 O1		115 Q1				0.85 U1	2.70 V1	
173	70.00 M2		4.17 O1		199 QX	0.71 R1			0.10 UX	2.40 V1	
176	34.00 M2		4.20 O1	100.0 P1	212 QX	0.50 R1			1.00 U1		
177	36.00 MX		4.20 O1	100.0 P1	218 QX	1.02 R1			0.45	2.67	0.11 W1
181			4.19 O1					0.18 T1	0.25 UX	2.71 VX	0.12 W1
									0.40 UX	2.40 V1	

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Sub #	Calcium	Sodium	pH	Chloride	Foam Collapse Rate	SO ₂	Sulfate	Yeast Fermentable Extract	Air	CO ₂ Volume	Ash
N	8	3	22	7	10	9		3	16	19	6
Mean	45.60	63.3	4.22	98.8	183	0.82		0.16	0.36	2.61	0.12
Min	33.00	35.0	4.05	96.0	115	0.23		0.10	0.05	2.40	0.11
Max	83.00	81.8	4.45	100.0	230	1.02		0.20	1.00	2.71	0.13
Std	19.51	24.9	0.09	1.7	46	0.28		0.05	0.28	0.10	0.01

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Sub #	Apparent Extract	Total VDK	Pentanedione	Free Amino Nitrogen	Viscosity	Dimethyl Sulfide	Total Haze	Extract of Orig. Wort	Iso-Alpha Acids for Beer
15	1.44						1.98	9.35	
18	1.44 XX	0.03 YX						9.33 3EX	
64									
67	1.41 XX						47.00 DD2	9.19 3EX	
83									
95	1.41 X1			87.00 AA1				9.37 EE1	
133	1.35 XX	0.03 Y2					27.60 DD2	9.34 3EX	
138	* 2.99 X2	0.01 Y5	0.006 Z1				1.55 DD2	9.49 EE1	
143	1.44 XX	0.04 YX		80.00 AA1					
144	1.44 XX						41.31 DD2	9.33 EE1	
149	1.41 XX		0.000 ZX				39.11 DD2	9.33 EE2	
153							63.00 DD3		
157							1.31 DD2		
159	1.44	0.01 YX		71.00 AA1	1.34	29.01	11.42 DD2	9.30 EE1	
161							57.00 DD2		
162	1.44 X3			87.00 AA1			11.40 DD2	9.35 EE1	
165	1.45 XX	0.02 YX	0.005 ZX				19.89 DD2	9.39 3EX	
169	1.44 X1	0.04 Y5	0.001 Z1	86.23 AA1	1.41 3BX			9.30 EE1	
170	* 1.33 X1						* 112.20 DD2	9.50 EE2	
171									
173	1.42 XX	0.05 YX						9.22 3EX	
176	1.43 X2			84.00 AA1				9.38 EE1	
177	1.43 XX			80.00 AA1				9.34 EE1	
181		0.00 Y2					0.47 DD1		

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Sub #	Apparent Extract	Total VDK	Pentanedione	Free Amino Nitrogen	Viscosity	Dimethyl Sulfide	Total Haze	Extract of Orig. Wort	Iso-Alpha Acids for Beer
N	15	9	4	7	2		13	16	
Mean	1.43	0.03	0.003	82.18	1.38		24.85	9.34	
Min	1.35	0.00	0.000	71.00	1.34		0.47	9.19	
Max	1.45	0.05	0.006	87.00	1.41		63.00	9.50	
Std	0.02	0.02	0.003	5.78	0.05		22.48	0.08	

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