

BEER-1

American Society of Brewing Chemists
BEER CHECK SERVICE

3/31/2012

<i>Sub #</i>	<i>Specific Gravity</i>	<i>Alcohol</i>	<i>Real Extract</i>	<i>Color</i>	<i>Bitterness Units</i>	<i>Protein</i>	<i>Reducing Sugars</i>	<i>Iron</i>	<i>Refractive Index</i>	<i>Copper</i>	<i>Diacetyl</i>	<i>Total Acidity</i>
18	1.01002 AX	4.20 BX	4.50 CX	7.43 D1	10.30 E1							
64	1.00995 A2	4.20 B1	4.42 C1		9.50 E1							0.23 L1
67	1.01014 AX	4.25 BX	4.54 CX	7.75 DX	* 22.00 E1							0.21 L2
83								0.04 H2				
95	1.01000 AX	4.20 B5	4.50 CX	6.40 D1	10.30 E1	0.53 F1	1.10 G2	0.03 H2		0.06 J1	30.510 KX	0.15 L1
108	1.01000 A2	4.14 B5		7.20 D1	11.20 E1							
110	1.01000 A2	* 5.38 BX	4.49 CX	11.50 D1								
132	1.00817 A2	4.15 B5		7.99 D1	8.98 E1						16.000 K1	
133	1.01092 A2	4.03 BX	* 4.63 CX	7.50 D1	7.65 E1							
138	1.01004	4.26	4.53	10.00	11.00						27.000	
143				5.74 DX	9.00 E1			0.04 H1				0.27 L1
144	1.01007 A2	4.19 B5	4.51 CX	11.07 D1	9.65 E1							* 3.01 LX
149	1.01001 A2	4.17 B5	4.42 CX	12.40 D1	8.00 E1						18.540 KX	0.23 L1
153	* 1.09400 AX	4.40 B5		9.80 D1	9.60 E1						72.000 K1	
157	1.01100 AX			15.90 D1	10.50 E1							
158	1.00988 A2	4.24 B5	4.48 C2	7.00 D1	10.60 E1			0.00 H2		0.05 J3		
162	1.00999 A2	4.18 B5	4.49 CX	6.26	10.60 E1	0.55 F1	1.12 G2	0.01 H2		0.01 J1	0.080 KX	0.17 L1
167	1.00900 A2	4.18 B5	4.49 C1	11.48 D1	10.50 E1						46.800 K1	0.20 L1
169	1.01014 A2	4.02 B5	4.46 CX	6.21 D1	10.80 E1	0.44 FX	1.12 G2	0.03 H2		0.04 J1		0.10 L1
170	1.01054 A2	4.27 B5	* 4.75 CX	8.34 D1	10.50 E1			0.07 HX		0.01 JX		0.19 L1
171	1.00809 A2	4.16 BX		11.00 D1	10.00 E1							
173	1.01000 A2	4.23 BX	4.51 CX	12.50 D1	8.50 E1	0.51 F1		0.05 H1		0.02 J2		0.20 L2
174	* 1.01600 A2	4.16 B5	4.49 CX	6.70 D1	10.05 E1	0.52 FX	1.09 G2	0.01 H2		0.06 J1	44.340 KX	0.18 L1

BEER-1

American Society of Brewing Chemists
BEER CHECK SERVICE

3/31/2012

<i>Sub #</i>	<i>Specific Gravity</i>	<i>Alcohol</i>	<i>Real Extract</i>	<i>Color</i>	<i>Bitterness Units</i>	<i>Protein</i>	<i>Reducing Sugars</i>	<i>Iron</i>	<i>Refractive Index</i>	<i>Copper</i>	<i>Diacetyl</i>	<i>Total Acidity</i>
N	19	19	14	21	20	5	4	9		7	8	11
Mean	1.00989	4.19	4.49	9.06	9.86	0.51	1.108	0.031		0.04	31.909	0.19
Min	1.00809	4.02	4.42	5.74	7.65	0.44	1.090	0.00		0.01	0.080	0.10
Max	1.01100	4.40	4.54	15.90	11.20	0.55	1.120	0.07		0.06	72.000	0.27
Std	0.00076	0.08	0.03	2.71	0.99	0.04	0.02	0.02		0.02	22.215	0.05

** Not Included in Mean*

Confidentiality Notice: The data contained herein are confidential and intended for subscriber use only. Data from other subscribers are included for comparison purposes only.

BEER-1

American Society of Brewing Chemists
BEER CHECK SERVICE

3/31/2012

<i>Sub #</i>	<i>Calcium</i>	<i>Sodium</i>	<i>pH</i>	<i>Chloride</i>	<i>Foam Collapse Rate</i>	<i>SO2</i>	<i>Sulfate</i>	<i>Yeast Fermentable Extract</i>	<i>Air</i>	<i>CO2 Volume</i>	<i>Ash</i>
18			4.20 O1			1.26 R2			0.21 UX	2.70 VX	
64		32.0NX				RX					
67			4.17 OX		153 Q1				0.30 UX	2.74 VX	
83											
95	34.00 M1		4.27 O1	335.0 PX		1.50 R1			0.30 UX	2.55 V1	0.14 W1
108			4.30 O1		105 Q1				* 1.50 UX	2.40 VX	
110			4.23 OX						0.00 UX	2.69 V1	
132	32.06 MX		4.26 O1						0.00 UX	2.70 V1	
133			4.19 O1		180 QX					2.77 V1	
138			4.20			0.50		2.12	0.01	2.61	
143			4.21 O1						0.10 UX	2.71 VX	
144			4.20 O1								
149			4.17 O1							2.90 VX	
153			4.06 O1								
157			4.16 O1						0.05 UX	2.67 V1	
158	33.00 M2	38.0 N1	4.21 O1			0.59 R1			0.10 UX	3.02 V1	
162	46.00 M2		4.20 O1		200	0.21 R1			0.25	2.63 V1	0.17 W1
167			4.12 O1						0.40 UX	2.72 V1	
169	39.00 M1	20.0	4.20 O1	330.0 P1		1.09 R1			0.60 UX	2.55 V1	0.16 W1
170	54.00 MX	27.0NX	4.23 O1						0.50 UX	2.64 V1	
171			* 3.86 O1		66 Q1				UX	2.60 V1	
173	55.00 M2		4.18 O1		155 QX	0.34 R1				2.79 V1	
174	38.00 M1		4.20 O1	324.0 P1	178 QX	0.41 R1			0.35 UX	2.68 VX	0.16 W1

BEER-1

American Society of Brewing Chemists
BEER CHECK SERVICE

3/31/2012

<i>Sub #</i>	<i>Calcium</i>	<i>Sodium</i>	<i>pH</i>	<i>Chloride</i>	<i>Foam Collapse Rate</i>	<i>SO2</i>	<i>Sulfate</i>	<i>Yeast Fermentable Extract</i>	<i>Air</i>	<i>CO2 Volume</i>	<i>Ash</i>
N	8	4	20	3	7	8			14	19	4
Mean	41.38	29.3	4.20	329.7	148	0.74			0.23	2.69	0.16
Min	32.06	20.0	4.06	324.0	66	0.21			0.00	2.40	0.14
Max	55.00	38.0	4.30	335.0	200	1.50			0.60	3.02	0.17
Std	9.22	7.6	0.05	5.5	47	0.48			0.19	0.13	0.01

** Not Included in Mean*

Confidentiality Notice: The data contained herein are confidential and intended for subscriber use only. Data from other subscribers are included for comparison purposes only.

BEER-1

American Society of Brewing Chemists
BEER CHECK SERVICE

3/31/2012

<i>Sub #</i>	<i>Apparent Extract</i>	<i>Total VDK</i>	<i>Pentanedione</i>	<i>Free Amino Nitrogen</i>	<i>Viscosity</i>	<i>Dimethyl Sulfide</i>	<i>Total Haze</i>	<i>Extract of Orig. Wort</i>	<i>Iso-Alpha Acids for Beer</i>
18	2.57 XX	0.03 YX						12.61 3EX	
64									
67	2.59 XX							12.74 3EX	
83									
95	2.56 X1			91.00 AA1				12.61 EE1	
108									
110	2.55 XX						DDX	12.62 3EX	
132							87.40 DDX		
133	2.80 XX	0.00 Y2					DDX	12.42 3EX	
138	2.57	* 37.00	10.000				99.00	12.76	
143	2.75 X1	0.13 YX		106.00 AA1					
144	2.58 XX						3672.00 DDX	12.61 EE1	
149	2.57 XX					27.80 CCX	6432.00 DDX	12.56 EE2	
153							7376.00 DD3		
157							3105.00 DD2		
158	2.53 X2	0.03 Y2						12.70 EE1	
162	2.56			99.00 AA1				12.56 EE1	
167	2.56 X1		5.200 Z1					12.56 EE2	
169	2.60 X1			101.00 AA1				12.24 EE1	
170	2.70 X1						699.00 DD2	12.98 EE2	
171									
173	2.57 XX	0.08 YX						12.67 3EX	
174	2.58 XX	0.04 Y2		94.00 AA1				12.54 EE1	

BEER-1

American Society of Brewing Chemists
BEER CHECK SERVICE

3/31/2012

<i>Sub #</i>	<i>Apparent Extract</i>	<i>Total VDK</i>	<i>Pentanedione</i>	<i>Free Amino Nitrogen</i>	<i>Viscosity</i>	<i>Dimethyl Sulfide</i>	<i>Total Haze</i>	<i>Extract of Orig. Wort</i>	<i>Iso-Alpha Acids for Beer</i>
N	16	6	2	5			7	15	
Mean	2.60	0.05	7.600	98.20			3067.20	12.61	
Min	2.53	0.00	5.200	91.00			87.40	12.24	
Max	2.80	0.13	10.000	106.00			7376.00	12.98	
Std	0.08	0.05	3.394	5.89			2987.55	0.16	

** Not Included in Mean*

Confidentiality Notice: The data contained herein are confidential and intended for subscriber use only. Data from other subscribers are included for comparison purposes only.