

BEER-4

American Society of Brewing Chemists
BEER CHECK SERVICE

12/31/2013

<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>
15	1.01430 A2	5.64 B5	6.18 CX	16.80 D1	72.63 E3						32.700 K2	
18	1.01419 AX	5.66 BX	6.16 CX	15.89 D1	67.70 E1							
63	1.01446 A2	5.52 BX	6.18 CX	15.78 D1	* 44.00 E1						12.500 KX	
83								0.04 H2				
95	1.01429 AX	5.61 B5	6.16 CX	16.85 D1	69.80 E1	0.66 F1	1.67 G2	0.01 HX		0.07 J1	*133.000 KX	0.19 L1
133	1.01417 A1	5.59 BX	6.13 CX	16.48 D1	78.10 E1							
138	1.01430 A2	* 7.29 B5	* 3.66 CX	15.70 D1	68.40 E1		* 0.83 G1	0.04 HX		0.09 JX		
143	1.01460 A2			16.20 D1	69.00 E1							0.26 L1
144	1.01439 AX	5.62 B5	6.20 CX	16.00 D1	64.85 E1							0.34 LX
149	1.01429 A2	5.61 B5	6.16 CX	16.70 D1	75.00 E1						9.030 KX	0.43 L1
150	1.01443 A2	5.57 B5	6.18 CX	15.99 D1	59.75 E1						63.000 KX	
153	1.01400 AX	* 6.00 B5		15.80 D1	72.40 E1							
155	1.01400 A2	5.75 B5		* 32.05 D1	78.30 E1							
157	1.01432 A2	5.63 B5		16.41 D1	74.70 E1							
159	1.01422 A2	* 7.15 B5	6.13 C1	15.95 D1	67.70 E1	0.68 F1	1.68 G2	0.03 H2		0.07 J1	52.000 KX	0.21 L1
161	1.01423 A1	5.60 B2	* 6.73 C2	* 24.38 D1	74.00 E1	* 0.50 F1		* 0.67 H1		* 0.22 JX	60.000 KX	0.38 L1
165	1.01429 AX	5.66 BX	6.18 CX	16.00 D1	64.80 E1						68.000 KX	
169	1.01429 A2	5.68 B5	6.19 CX	16.30 D1	74.50 E1	0.67 FX	1.67 G2	0.00 H2		0.04 J1	60.000 K1	0.20 L1
170	1.01420 A2	5.69 B5	6.31 C1	15.40 D1	68.20 E1			* 0.30 HX		0.04 JX		
171	* 1.01240 A2	5.61 BX		16.19 D1	65.10 E1							
176	1.01432 A2	5.65 B5	6.19 CX	16.85 D1	74.90 E1	0.65 FX	1.73 G2	0.04 H1		0.04 J1	15.000 KX	0.20 L1
177	1.01423 A2	5.62 B5	6.15 CX	15.92 D1	72.70 E1	0.68 FX	1.70 G2	0.01 H2		0.08 J1	7.000 KX	0.20 L1
185	* 1.01521 A2	* 5.30 BX	6.26 CX							0.05 JX		
190	1.01420 A2	5.66 BX	6.15 CX	13.70 D1	60.00 E1						40.700 KX	
191	1.01413 A2	5.65 B5		16.00 D1	64.70 E1							

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N	22	19	16	21	22	5	5	7		8	11	9
Mean	1.01427	5.63	6.18	16.04	69.87	0.67	1.690	0.025		0.06	38.175	0.27
Min	1.01400	5.52	6.13	13.70	59.75	0.65	1.670	0.00		0.04	7.000	0.19
Max	1.01460	5.75	6.31	16.85	78.30	0.68	1.730	0.04		0.09	68.000	0.43
Std	0.00008	0.05	0.05	0.67	5.30	0.01	0.03	0.02		0.02	23.882	0.09

** Not Included in Mean*

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<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>
15			4.46 O1		326	1.34			0.25 U1	2.74 V1	
18			4.51 O1			0.94 R2			0.25 UX	2.57 VX	
63			* 4.64 OX		149 Q1				0.65 UX	2.85 VX	
83											
95	49.00 M1		4.52 O1	256.0 PX		0.40 R1			0.40 UX	2.60 V1	0.26 W1
133			4.51 O1		385 QX					2.65 V1	
138	48.44 MX	30.8 NX	4.47 O1				400.0		0.06 U1	2.58 VX	
143			4.51 O1						0.03 UX	2.57 VX	
144			4.44 O1								
149			4.45 O1							2.56 VX	
150			4.46 O1							2.88 VX	
153			4.47 O1								
155			4.49 O1						0.10 UX	2.73 V1	
157			4.40 O1						0.05 UX	2.59 V1	
159	49.00 MX		4.52 O1	260.0 P1	286 QX	1.00 R1		0.35 T1	0.25 UX	2.58 V1	0.27 W1
161	* 152.00 MX	34.0 NX	4.42 O1				0.1 SX		* 1.50 UX	* 0.60 V1	0.26 W1
165			4.40 O1								
169	52.00 M1	17.7 N1	4.45 O1	262.0 P1	Q2	1.69 R1		TX	0.10 UX	2.70 V1	0.24 W1
170	60.60 MX	29.0 NX	4.46 O1						0.70 UX	2.60 V1	
171			4.47 O1								
176	42.50 MX		4.47 O1	262.0 P1	307 QX	0.39			0.15 UX	2.63 VX	* 0.17 W1
177	49.00 MX		4.49 O1	249.0 P1	648 QX	2.45 R1		0.39 T1	0.40 UX	2.61 VX	0.27 W1
185			4.48 O1			1.10 R1					
190			4.51 O1							2.60 VX	
191			4.45 O1						0.10 U1	2.60 VX	

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<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	7	4	23	5	6	8	2	2	14	18	5
Mean	50.08	27.9	4.47	257.8	350	1.16	200.1	0.37	0.25	2.65	0.26
Min	42.50	17.7	4.40	249.0	149	0.39	0.1	0.35	0.03	2.56	0.24
Max	60.60	34.0	4.52	262.0	648	2.45	400.0	0.39	0.70	2.88	0.27
Std	5.45	7.1	0.04	5.5	165	0.68	282.7	0.03	0.22	0.10	0.01

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<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	17	10	6	6			12	16	
Mean	3.65	0.05	0.008	112.00			426.10	16.80	
Min	3.60	0.01	0.000	107.00			4.70	16.66	
Max	3.73	0.14	0.020	118.00			1338.00	17.04	
Std	0.03	0.04	0.007	4.00			453.07	0.10	

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