

9 EBC

Wet Hops Blonde Ale (Willamette) - 4.3%

British Golden Ale Brewer: The Thirsty Otter

Type: All Grain

Colour

IBU : 20 (Tinseth) BU/GU : 0.47

: 9 EBC

Carbonation : 2.4 CO2-vol

Pre-Boil Gravity : 1.031 Original Gravity : 1.041 Total Gravity : 1.043 Final Gravity : 1.010

Fermentables (1 kg)

750 g - Pale Ale Malt 8.5 EBC (75%)

^ Lot # 20210909

^ Brouwmaatje (NL) 051.011.5 200 g - Pils 3.5 EBC (20%)

^ Lot # 20210710

^ Brouwmaatje (NL) 051.002.4

50 g - Wheat Malt 5.5 EBC (5%)

^ Lot # 20210909 ^ Brouwmaatje (NL)

32 g - Bottling - Sugar, Table (Sucrose) 2 EBC

^ Albert Heijn (NL)

Hops (160 g)

20 min - 30 g - Willamette (green hops) (Whol...

^ Home grown by The Thirsty Otter

10 min - 30 g - Willamette (green hops) (Whol...

^ Home grown by The Thirsty Otter

Hop Stand

15 min hopstand @ 80 °C

15 min - 100 g - Willamette (green hops) (Who...

^ Home grown by The Thirsty Otter

Miscellaneous

Mash - 0.29 g - Baking Soda (NaHCO3)

^ Lot # 41190621/3

^ Brouwstore (NL) 003.106.2

Mash - 0.76 g - Calcium Chloride (CaCl2) 33 %...

^ Lot # 115038

^ Brouwstore (NL) 055.035.0

Mash - 0.76 g - Canning Salt (NaCl)

^ Albert Heijn (NL)

Mash - 1.17 g - Epsom Salt (MgSO4)

^ Lot # /2119000091

^ Brouwstore (NL) 055.027.7

Mash - 1.5 g - Gypsum (CaSO4)

^ Brouwmaatje (NL)

Mash - 0.4 ml - Lactic Acid 80% 80%

^ Lot # 20200213

^ Brouwstore (NL) 003.002.3

Mash - 3 l - NL Spa Reine Flat Mineral Water

^ Lot # 20220901

^ AH (NL)

Sparge - 5.84 l - NL Spa Reine Flat Mineral W...

^ Lot # 20220901

^ AH (NL)

60 min - Boil - 0.15 g - Lipohop K

^ Lot # LPK110

^ The Malt Miller (UK) CH-03-013

01 Brouwpunt 5L (60min) (rev 4)

: 5.6 L Batch Size Boil Size : 7.76 L Post-Boil Vol : 5.96 L

Mash Water : 3 L Sparge Water : 5.84 L Boil Time : 60 min

Total Water : 8.84 L

Brewhouse Efficiency: 71.8% Mash Efficiency: 73.3%

Mash Profile

01 One Step Mash (60 min)

71 °C - Strike Temp

65 °C - 60 min - Temperature

Fermentation Profile

01 Ale + DR + Conditioning

18 °C - 10 days - Primary

21 °C - 5 days - Diacetyl rest

18 °C - 14 days - Carbonation

18 °C - 28 days - Conditioning

Water Profile

02 NL Spa Reine Flat Mineral Water (www.ah.nl...

Ca 55 Mg 15 Na 46 Cl 75 SO 150 HCO 40

SO/Cl ratio: 2 Mash pH: 5.38 Sparge pH: 6

Measurements

Mash pH: 5.37

Boil Volume: 8.3

Pre-Boil Gravity: 1.024

Post-Boil Kettle Volume: 6.9

Original Gravity: 1.032

Fermenter Top-Up:

Fermenter Volume: 5.5

Final Gravity: 1.000

Bottling Volume: 4.46



Recipe Notes

Pitch 3 grams yeast @ 18 C.

Batch Notes

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Brew day
18-09-2022 09:45 Calibrated the pH-meter.
18-09-2022 09:52 Strike water pH = 6.42 @ 14.6 C.
0.79 gram Calcium chloride.
0.4 ml Lactic acid
1.18 gram Epsom salt.
0.74 gram Canning salt.
0.29 gram Baking soda.
Forgot the Gypsum !
10:15 Strike water pH = 5.71 @ 45.0 C.
10:19 Mash in.
@5 \text{ m pH} = 5.43@42.5 \text{ C.}
@10 \text{ m pH} = 5.40@43.0 C.
@15 \text{ m pH} = 5.40@43.1 C.}
@20 \text{ m pH} = 5.37@49.6 \text{ C.}
@25 \text{ m pH} = 5.35@48.4 \text{ C.}
@30 m pH = 5.37@43.9 C.
@35 \text{ m pH} = 5.36@43.2 \text{ C.}
@40 \text{ m pH} = 5.37@41.0 \text{ C.}
@45 \text{ m pH} = 5.32@48.3 \text{ C.}
@50 \text{ m pH} = 5.35@44.9 C
@55 \text{ m pH} = 5.35@47.3 \text{ C.}
@60 \text{ m pH} = 5.39@39.3 \text{ C}
11:35 1.5 L batch sparge #1 @ 72.0 C.
11:41 Sparge water pH = 6.23@17.4 C.
11:53    1.5 L batch sparge #2 @ 72.0 C.
12:15    1.5 L batch sparge #3 @ 72.9 C.
13:20 1.5 L batch sparge #4 @ 72.5 C.
13:35
        Level = 16.6 cm --> 8.3 L wort.
13:37 SG = 1.020 @ 35.8 C. --> SG = 1.024 @ 20 C.
13:39 pH = 5.62@34.2 C.
13:47 Added 0.19 gram Lipohop K.
14:03 Hot break.
14:05 Start of boil.
14:54 Level = 14.5 cm --> 7.25 L.
15:07 Start of hop stand @ 98.3 C.
15:22 End of hop stand @ 84.0 C.
20:30 SG = 1.032. pH = 5.46 @ 21.6 C.
20:35 Level = 13.8 cm --> 6.9 L wort
20:41 5.5 L wort in the fermenter.
Day 0 in fermentation
19-09-2022 08:35 Pitched 3 grams of Fermentis S-04 yeast.
19-09-2022 08:35 16.7 C., dp = 0 mm H2O, SG = 1.032, pH = 5.46.
19-09-2022 12:00 17.9 C., dp = 30 mm H20, no bubbles. 19-09-2022 13:00 17.6 C., dp = 30 mm H20, no bubbles.
19-09-2022 16:00 17.1 C., dp = 40 mm H2O, no bubbles.
19-09-2022 18:00 17.5 C., dp = 48 mm H2O, no bubbles.
19-09-2022 20:00 18.0 C., dp = 3 mm H2O, no bubbles.
19-09-2022 21:00 18.0 C., dp = 3 mm H2O, no bubbles.
19-09-2022 22:00 17.9 C., dp = 3 mm H2O, no bubbles.
Day 1 in fermentation
20-09-2022 06:15 18.0 C.
20-09-2022 07:45 18.0 C., dp = 50 mm H2O, many bubbles.
20-09-2022 08:00 17.9 C.
20-09-2022 16:15 17.1 C.
20-09-2022 18:45 17.1 C., dp = 50 mm H2O, many bubbles.
20-09-2022 21:30 17.1 C., dp = 50 mm H2O, many bubbles.
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Batch Notes

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Day 2 in fermentation
21-09-2022 02:45 17.1 C.
21-09-2022 05:30 17.1 C.
21-09-2022 08:00 17.0 C., dp = 50 mm H2O, many bubbles. 21-09-2022 12:00 18.0 C.
21-09-2022 16:00 18.0 C.
21-09-2022 20:00 17.8 C., dp = 50 mm H2O, many bubbles.
21-09-2022 22:00 17.7 C.
Day 3 in fermentation
22-09-2022 05:45 17.7 C.
22-09-2022 07:15 17.3 C., dp = 50 mm H2O, two bubbles.
22-09-2022 14:00 17.0 C.
22-09-2022 18:00 17.9 C., dp = 50 mm H2O, two bubbles.
22-09-2022 21:45 17.5 C., dp = 50 mm H2O, two bubbles.
Day 4 in fermentation
23-09-2022 04:15 17.8 C.
23-09-2022 08:15 17.1 C., dp = 50 mm H2O, two bubbles.
23-09-2022 10:00 18.0 C., dp = 50 mm H2O, one bubble.
23-09-2022 12:30 17.5 C., dp = 50 mm H2O, one bubble.
23-09-2022 17:00 18.1 C., dp = 50 mm H2O, one bubble. 23-09-2022 19:00 18.1 C., dp = 50 mm H2O, one bubble. 23-09-2022 22:30 17.6 C., dp = 50 mm H2O, one bubble.
Day 5 in fermentation
24-09-2022 00:00 17.5 C.
24-09-2022 04:00 17.1 C.
24-09-2022 08:45 17.6 C., dp = 45 mm H2O, no bubbles. 24-09-2022 11:00 17.3 C., dp = 45 mm H2O, no bubbles. 24-09-2022 17:00 17.7 C., dp = 45 mm H2O, no bubbles.
24-09-2022 20:00 17.3 C., dp = 45 mm H20, no bubbles.
Day 6 in fermentation
25-09-2022 00:00 18.1 C.
25-09-2022 04:00 17.3 C.
25-09-2022 09:30 17.3 C., dp = 45 mm H20, no bubbles.
25-09-2022 13:00 17.9 C., dp = 45 mm H2O, no bubbles.
25-09-2022 16:15 17.4 C., dp = 42 mm H2O, no bubbles.
25-09-2022 20:00 17.7 C.
Day 7 in fermentation
26-09-2022 00:00 17.6 C.
26-09-2022 04:00 17.7 C.
26-09-2022 08:30 17.3 C., dp = 45 mm H2O, no bubbles.
26-09-2022 12:15  17.8 C., dp = 45 mm H2O, no bubbles.
26-09-2022 16:00 17.1 C., dp = 45 mm H2O, no bubbles.
26-09-2022 20:00 17.4 C., dp = 45 mm H20, no bubbles. 26-09-2022 23:45 18.0 C.
Day 8 in fermentation
27-09-2022 04:00 17.2 C.
27-09-2022 07:30 17.4 C., dp = 45 mm H2O, no bubbles.
27-09-2022 12:00 17.7 C.
27-09-2022 16:00 17.9 C.
27-09-2022 20:00 17.9 C., dp = 45 mm H2O, no bubbles.
27-09-2022 22:00 17.7 C., dp = 45 mm H2O, no bubbles.
Day 9 in fermentation
28-09-2022 00:00 17.0 C.
28-09-2022 04:00 17.2 C.
28-09-2022 07:45 17.3 C., dp = 45 mm H2O, no bubbles.
28-09-2022 12:00 17.5 C.
28-09-2022 16:00 17.9 C.
28-09-2022 20:00 17.1 C., dp = 45 mm H2O, no bubbles.
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Batch Notes

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Day 10 in fermentation
29-09-2022 00:00 17.3 C.
29-09-2022 04:00 17.3 C.
29-09-2022 07:45 17.5 C., dp = 1 mm H2O, no bubbles. 29-09-2022 12:00 17.4 C.
29-09-2022 16:00 17.8 C.
29-09-2022 19:45 17.1 C., dp = 2 mm H2O, no bubbles.
29-09-2022 22:00 20.0 C.
Day 11 in fermentation
30-09-2022 00:00 20.8 C.
30-09-2022 04:00 20.8 C.
30-09-2022 07:15 21.0 C., dp = 45 mm H2O, no bubbles.
30-09-2022 12:00 20.3 C.
30-09-2022 16:00 20.4 C.
30-09-2022 17:15 20.1 C., dp = 20 mm H2O, no bubbles.
30-09-2022 20:00 20.6 C., dp = 45 mm H2O, no bubbles.
Day 12 in fermentation
01-10-2022 00:00 20.8 C.
01-10-2022 04:00 20.9 C.
01-10-2022 09:15 20.4 C., dp = 45 mm H2O, no bubbles.
01-10-2022 11:45 21.0 C., dp = 45 mm H20, no bubbles.
01-10-2022 16:00 21.0 C., dp = 1 mm H2O, no bubbles.
01-10-2022 20:00 20.1 C.
01-10-2022 22:45 20.7 C.
Day 13 in fermentation
02-10-2022 00:15 20.0 C.
02-10-2022 04:00
                  20.2 C.
02-10-2022 08:00 20.3 C.
02-10-2022 10:30 20.9 C., dp = 1 mm H2O, no bubbles.
02-10-2022 12:15 20.3 C., dp = 2 mm H20, no bubbles.
02-10-2022 16:00 20.5 C., dp = 40 mm H2O, no bubbles.
02-10-2022 20:00 20.9 C., dp = 2 mm H2O, no bubbles.
Day 14 in fermentation
03-10-2022 08:45 21.0 C., dp = 45 mm H2O, no bubbles.
03-10-2022 12:45 20.9 C., dp = 30 mm H20, no bubbles.
03-10-2022 16:00 20.7 C., dp = 40 mm H2O, no bubbles.
Day 15 in fermentation
04-10-2022 07:30 20.8 C., dp = 1 mm H2O, no bubbles.
04-10-2022 18:15 20.1 C., dp = 1 mm H2O, no bubbles.
04-10-2022 20:00 21.1 C., dp = 1 mm H2O, no bubbles.
Bottling day
04-10-2022 20:30 20.9 C., dp = 0 mm H20, SG = 1.000, pH = 4.41.
Filled 14 Steinie bottles (33 cl).
Day 1 in conditioning
05-10-2022 07:45 19.9 C.
05-10-2022 20:00 19.4 C.
Day 2 in conditioning
06-10-2022 06:30 19.2 C.
06-10-2022 19:15 18.9 C.
06-10-2022 23:30 19.0 C.
Day 3 in conditioning
07-10-2022 07:00 19.0 C.
07-10-2022 19:00 18.5 C.
07-10-2022 22:30 18.4 C.
Day 4 in conditioning
08-10-2022 07:30 18.2 C.
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Batch Notes

08-10-2022 22:30 18.1 C. Day 5 in conditioning 09-10-2022 09:00 18.8 C. 09-10-2022 15:15 18.5 C. 09-10-2022 21:45 18.6 C. Day 6 in conditioning 10-10-2022 08:00 18.5 C. 10-10-2022 11:30 18.4 C. 10-10-2022 22:45 18.2 C. Day 7 in conditioning 11-10-2022 07:30 18.7 C. 11-10-2022 18:30 18.2 C. 11-10-2022 23:30 18.2 C. Day 8 in conditioning 12-10-2022 07:30 18.9 C. 12-10-2022 18:30 18.4 C. 12-10-2022 22:30 18.4 C. Day 9 in conditioning 13-10-2022 07:30 18.2 C. 13-10-2022 19:00 18.2 C. 13-10-2022 22:30 18.2 C. Day 10 in conditioning 14-10-2022 07:30 18.8 C. 14-10-2022 12:30 18.8 C. 14-10-2022 17:00 18.7 C. Day 11 in conditioning 15-10-2022 08:30 18.8 C. 15-10-2022 15:45 18.7 C. 15-10-2022 21:30 18.9 C. Day 17 in conditioning 21-10-2022 20:00 18.1 C. Day 18 in conditioning 22-10-2022 08:45 18.3 C. 22-10-2022 15:30 18.4 C. Day 19 in conditioning 23-10-2022 00:15 18.7 C. 23-10-2022 11:30 18.1 C. 23-10-2022 23:30 18.0 C. Day 20 in conditioning 24-10-2022 08:00 18.0 C. 24-10-2022 14:45 18.9 C. 24-10-2022 20:30 18.9 C. Day 21 in conditioning 25-10-2022 07:15 18.7 C. 25-10-2022 17:30 18.4 C. 25-10-2022 23:30 18.5 C. Day 22 in conditioning 26-10-2022 07:00 18.5 C. 26-10-2022 16:45 18.4 C. 26-10-2022 23:30 18.5 C. Day 23 in conditioning 27-10-2022 07:45 18.7 C.



Batch Notes

27-10-2022 16:30 18.8 C. 27-10-2022 21:45 18.2 C. Day 24 in conditioning 28-10-2022 05:30 18.4 C. Day 26 in conditioning 30-10-2022 18:00 18.0 C. 30-10-2022 21:00 18.0 C. Day 27 in conditioning 31-10-2022 08:00 18.0 C. 31-10-2022 13:30 18.8 C. 31-10-2022 22:30 18.7 C. Day 28 in conditioning 01-11-2022 07:00 18.5 C. 01-11-2022 15:00 18.8 C. 01-11-2022 20:30 18.7 C. Day 29 in conditioning 02-11-2022 08:00 18.0 C. 02-11-2022 18:00 18.6 C. 02-11-2022 22:00 18.7 C. Day 30 in conditioning 03-11-2022 07:15 18.4 C. 03-11-2022 13:00 18.0 C. 03-11-2022 21:30 18.1 C. Day 31 in conditioning 04-11-2022 08:00 18.8 C. 04-11-2022 13:00 18.6 C. 04-11-2022 15:00 18.5 C. 04-11-2022 21:00 18.4 C. Day 32 in conditioning 05-11-2022 11:00 17.5 C. 05-11-2022 16:30 17.5 C. 05-11-2022 22:30 17.7 C. Day 33 in conditioning 06-11-2022 08:00 17.2 C. 06-11-2022 18:45 17.8 C. 06-11-2022 22:00 17.5 C. Day 34 in conditioning 07-11-2022 07:45 17.0 C. 07-11-2022 18:00 17.7 C. 07-11-2022 22:00 17.7 C. Day 35 in conditioning 08-11-2022 07:45 17.1 C. 08-11-2022 12:30 17.7 C. 08-11-2022 16:00 17.7 C. 08-11-2022 20:45 17.8 C. Day 36 in conditioning 09-11-2022 19:30 17.4 C. Day 37 in conditioning 10-11-2022 00:00 17.5 C. 10-11-2022 08:00 17.4 C. 10-11-2022 19:00 17.2 C. 10-11-2022 22:30 17.2 C.



Batch Notes

Day 38 in conditioning 11-11-2022 07:00 17.9 C. 11-11-2022 14:00 17.7 C. 11-11-2022 18:00 17.9 C. Day 39 in conditioning 12-11-2022 09:30 17.9 C. 12-11-2022 15:00 17.7 C. 12-11-2022 21:00 17.8 C. Day 40 in conditioning 13-11-2022 08:00 17.5 C. 13-11-2022 18:00 17.1 C. 13-11-2022 22:30 17.1 C. Day 41 in conditioning 14-11-2022 08:00 17.5 C. 14-11-2022 13:00 17.1 C. 14-11-2022 16:45 17.0 C. Day 42 in conditioning 15-11-2022 07:00 17.0 C. 15-11-2022 18:00 17.2 C. 15-11-2022 22:30 17.4 C.

Extra Measured Values	
Strike Water Temperature	71.5
Strike Water pH	5.71
Sparge Water Temperature	72
Sparge Water pH	6.23
Pitch Temperature	16.7

Batch Log		
18 September 2022	Brew Date	
18 September 2022 10:12	Status: Brewing	
19 September 2022 08:30	SV = 18.0 C.	
19 September 2022	Fermentation Start	
29 September 2022 20:30	SV = 21.0 C.	
4 October 2022	Bottling Date	
4 October 2022 20:30	Filled 14 Steinie bottles (33 cl).	
15 November 2022 22:40	Status: Completed	

Taste

3.0 / 5.0