www.brewfather.app

6 EBC

SMaSH Fuggle - 4.3%

British Golden Ale Brewer: The Thirsty Otter

Type: All Grain

IBU : 25 (Tinseth) BU/GU : 0.59 Colour : 6 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)

1 kg - Extra Pale Maris Otter 3.1 EBC (100%) ^ Lot # 67-200827-161058-155815-1/1

^ The Malt Miller (UK) MAL-00-040

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

^ Albert Heijn (NL)

Hops (23 g)

30 min - 7 g - Fuggle (Whole) - 5% (13 IBU)

^ Worcester Hop Shop (UK)

15 min - 8 g - Fuggle (Whole) - 5% (10 IBU)

^ Worcester Hop Shop (UK)

Hop Stand

15 min hopstand @ 80 °C

15 min - 8 g - Fuggle (Whole) - 5% (2 IBU)

^ Worcester Hop Shop (UK)

Miscellaneous

Mash - 0.2 ml - Calcium Chloride (CaCl2) 33 %... Boil Volume: 7.35

^ Lot # 115038

^ Brouwstore (NL) 055.035.0

Mash - 0.56 g - Epsom Salt (MgSO4)

^ Lot # /2119000091

^ Brouwstore (NL) 055.027.7

Mash - 1.2 ml - Lactic Acid 80% 80%

^ Lot # 20200213

^ Brouwstore (NL) 003.002.3

Mash - 2 items - pH paper strips 5.2 - 6.8

^ Lot # 20200422/1

^ Brouwstore (NL) 013.075.7

60 min - Boil - 0.19 g - Lipohop K

^ Lot # LPK110

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

10 min - Boil - 1 g - Irish Moss

^ Lot # 4348

^ Brouwstore (NL) 125.249.1

10 min - Boil - 0.05 g - Lallemand Servomyces

^ Lot # 154001112904ABV

^ Brouwstore (NL) 050.620.4

10 min - Boil - 1 items - Wort Chiller

^ Brouwstore (NL) 057.020.20

Bottling - 12 items - 33 cl Steinie bottle (s...

^ Brouwstore (NL) 017.500.0

Yeast

0.5 pkg - Neales Brewing Supplies Classic Eng...

^ Lot # 03012001180611V

^ The Malt Miller (UK) YEA-02-021

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

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

Mash Water : 3 L : 5.84 L Sparge Water 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) 68.7 °C - Strike Temp

63 °C - 60 min - Temperature

Fermentation Profile

Ale

20 °C - 11 days - Primary 20 °C - 45 days - Conditioning

Water Profile

NL Hoofddorp Rein Tap Water (2020-Q1 WQR) (St...

Ca 43 Mg 15 Na 67 Cl 75 SO 68 HCO 178

SO/Cl ratio: 0.9 Mash pH: 5.43

Measurements

Mash pH: 5.5

Pre-Boil Gravity: 1.031

Post-Boil Kettle Volume: 6

Original Gravity: 1.041

Fermenter Top-Up: 0.3

Fermenter Volume: 5.6

Final Gravity: 1.007

Bottling Volume: 4



Recipe Notes

Malt is ordered with standard crush @ The Malt Miller (https://www.themaltmiller.co.uk/).

Batch Notes

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23-10-2020
Prepared 4 L pre-boiled water.
Brew day
24-10-2020 11:30 added:
3L pre-boiled mash water.
1.2 mL Lactic acid.
0.3 mL Calciumchloride.
0.56 g Epsom salt.
Measure strike water pH = < 5.2 @ 25 C.
24-10-2020 12:00 mash in @ 68.9 C.
lump hunting and stirring.
24-10-2020 12:15 Mash pH = 5.5 @ 60 C.
24-10-2020 13:17 first wort SG = 1.063 @ 42.5 C --> 1.070 @ 20 C.
Sparged with 3.6 L @ 65 C.
SG = 1.030 @ 44.5 C --> 1.038 @ 20 C.
Collected of wort: 5.6 L.
Added 1.3 L @ 40 C for a 2nd sparge.
SG = 1.025 @ 44.3 C --> 1.033 @ 20 C.
Collected wort: 6.9 L.
Added another 0.45 L water for a pre-boil gravity of 1.031.
Collected wort: 7.35 L pre-boil volume.
Added hops for hopstand @ 82 C.
End of hopstand @ 75.0 C.
Post-boil SG = 1.039 @ 27.8 C --> OG = 1.041 @ 20 C.
24-10-2020 17:07 @ 22.7 C.
Fermentation
Day 0 in fermentation
24-10-2020 18:24 @ 21.7 C pitched 5 grams yeast.
24-10-2020 20:15 @ 21.7 C, dp = 0.01 mm H20.
24-10-2020 21:58 @ 21.7 C., dp = 0.01 mm H2O.
24-10-2020 23:26 @ 20.4 C, dp = 30 mm H2O, fermentation has started, few bubbles.
Day 1 in fermentation
25-10-2020 00:51 @ 20.0 C, dp = 50 mm H2O, few bubbles. 25-10-2020 07:03 @ 20.9 C, dp = 50 mm H2O, many bubbles.
25-10-2020 12:07 @ 20.0 C, dp = 50 mm H2O, many bubbles.
25-10-2020 15:10 @ 20.4 C, dp = 50 mm H2O, many bubbles.
25-10-2020 19:11 @ 20.6 C, dp = 50 mm H2O, many bubbles.
25-10-2020 21:30 @ 21.0 C, dp = 50 mm H2O, many bubbles.
Day 2 in fermentation
26-10-2020 04:30 @ 19.1 C, dp = 40 mm H2O, no bubbles.
26-10-2020 07:46 @ 19.1 C, dp = 25 mm H2O, no bubbles.
26-10-2020 10:18 @ 19.7 C, dp = 20 mm H2O, no bubbles.
26-10-2020 15:43 @ 19.6 C, dp = 12 mm H2O, no bubbles.
26-10-2020 20:54 @ 18.1 C, dp = 10 mm H2O, no bubbles.
26-10-2020 23:45 @ 18.1 C, dp = 5 mm H2O, no bubbles.
Day 3 in fermentation
27-10-2020 07:25 @ 18.2 C, dp = 2 mm H2O, no bubbles.
27-10-2020 12:19 @ 18.9 C, dp = 2 mm H2O, no bubbles.
27-10-2020 15:42 @ 18.9 C, dp = 3 mm H2O, no bubbles.
27-10-2020 20:30 @ 18.4 C, dp = 2 mm H2O, no bubbles.
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Batch Notes

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Day 4 in fermentation
28-10-2020 00:16 @ 18.5 C, dp = 2 mm H2O, no bubbles.
28-10-2020 08:08 @ 18.0 C, dp = 1 mm H2O, no bubbles.
28-10-2020 13:43 @ 18.9 C, dp = 1 mm H2O, no bubbles. 28-10-2020 18:52 @ 18.7 C, dp = 1 mm H2O, no bubbles. 28-10-2020 23:55 @ 18.9 C, dp = 0.5 mm H2O, no bubbles.
Day 5 in fermentation
29-10-2020 08:24 @ 18.9 C, dp = 0.5 mm H2O, no bubbles.
29-10-2020 12:44 @ 18.4 C, dp = 0.5 mm H2O, no bubbles.
29-10-2020 20:05 @ 18.3 C, dp = 0.1 mm H2O, no bubbles. 29-10-2020 23:43 @ 18.2 C, dp = 1 mm H2O, no bubbles.
Day 6 in fermentation
30-10-2020 08:29 @ 18.2 C, dp = 0.1 mm H2O, no bubbles.
30-10-2020 14:08 @ 18.4 C, dp = 0.1 mm H2O, no bubbles.
30-10-2020 18:36 @ 18.5 C, dp = 0.1 mm H2O, no bubbles. 30\text{-}10\text{-}2020 23:41 @ 18.7 C, dp = 0.1 mm H2O, no bubbles.
Day 7 in fermentation
31-10-2020 08:32 @ 18.8 C, dp = 0.1 mm H2O, no bubbles.
31-10-2020 14:21 @ 18.0 C, dp = 0.1 mm H2O, no bubbles.
31-10-2020 19:25 @ 18.0 C, dp = 0.1 mm H2O, no bubbles. 31-10-2020 23:43 @ 18.3 C, dp = 0.1 mm H2O, no bubbles.
Day 8 in fermentation
01-11-2020 09:01 @ 18.7 C, dp = 0.1 mm H2O, no bubbles.
01-11-2020 13:22 @ 18.5 C, dp = 0.1 mm H2O, no bubbles.
01-11-2020 18:41 @ 18.0 C, dp = 0.1 mm H20, no bubbles.
01-11-2020 23:28 @ 18.4 C, dp = 0.1 mm H2O, no bubbles.
Day 9 in fermentation
02-11-2020 08:09 @ 18.0 C, dp = 0.1 mm H2O, no bubbles.
02-11-2020 13:24 @ 18.2 C, dp = 0.1 mm H2O, no bubbles.
02-11-2020 18:07 @ 18.5 C, dp = 0.1 mm H2O, no bubbles.
Day 10 in fermentation
03-11-2020 00:29 @ 18.1 C, dp = 0.1 mm H2O, no bubbles.
03-11-2020 07:46 @ 18.6 C, dp = 0.1 mm H2O, no bubbles.
03-11-2020 13:16 @ 18.4 C, dp = 0.1 mm H2O, no bubbles.
03-11-2020 19:30 @ 18.2 C, dp = 0.1 mm H2O, no bubbles.
03-11-2020 23:30 @ 18.7 C, dp = 0.1 mm H2O, no bubbles.
Day 11 in fermentation
04-11-2020 08:11 @ 18.4 C, dp = 0.1 mm H2O, no bubbles.
04-11-2020 13:26 @ 18.7 C, dp = 0.1 mm H2O, no bubbles.
04-11-2020 17:30 @ 18.1 C, dp = 0.1 mm H2O, no bubbles.
04-11-2020 19:30 @ 18.0 C, dp = 0.1 mm H2O, no bubbles.
Bottling Day
04-11-2020 20:00 added 30 gram sugar @ 300 ml water.
04-11-2020 20:02 Final Gravity = 1.007 @ 21.5 C --> 1.007 @ 20 C.
04-11-2020 20:10 very pale yellow colour.
04-11-2020 20:15 filled 12 Steinie bottles (33 cl swing-top). Yield was 4 Litres, a litre less than
expected due to sediment I did not want in the bottles.
04-11-2020 23:47 @ 18.8 C.
Day 1 in conditioning
05-11-2020 09:44 @ 18.3 C.
05-11-2020 12:00 @ 18.3 C.
05-11-2020 17:36 @ 18.7 C.
05-11-2020 23:30 @ 18.8 C.
Day 2 in conditioning
06-11-2020 08:35 @ 18.3 C.
06-11-2020 13:05 @ 18.2 C.
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Batch Notes

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06-11-2020 20:41 @ 18.2 C.
Day 3 in conditioning
07-11-2020 00:43 @ 18.1 C.
07-11-2020 09:54 @ 18.0 C.
07-11-2020 13:24 @ 18.7 C.
07-11-2020 17:43 @ 18.4 C.
Day 4 in conditioning
08-11-2020 01:12 @ 18.2 C.
08-11-2020 10:39 @ 18.2 C.
08-11-2020 18:58 @ 18.5 C.
08-11-2020 23:40 @ 18.1 C.
Day 5 in conditioning
09-11-2020 08:25 @ 18.2 C.
09-11-2020 12:57 @ 18.4 C.
09-11-2020 17:35 @ 18.8 C.
09-11-2020 22:46 @ 18.1 C.
Day 6 in conditioning
10-11-2020 07:19 @ 18.2 C.
10-11-2020 11:55 @ 18.1 C.
10-11-2020 18:15 @ 18.7 C.
10-11-2020 23:43 @ 18.0 C.
Day 7 in conditioning
11-11-2020 08:05 @ 18.0 C.
11-11-2020 17:10 @ 18.8 C.
11-11-2020 22:14 @ 18.7 C.
Day 8 in conditioning
12-11-2020 00:17 @ 18.7 C.
12-11-2020 08:21 @ 18.2 C.
12-11-2020 12:54 @ 18.9 C.
12-11-2020 18:10 @ 18.7 C.
12-11-2020 23:36 @ 18.2 C.
Day 9 in conditioning
13-11-2020 08:09 @ 18.6 C.
13-11-2020 12:49 @ 18.1 C.
13-11-2020 19:47 @ 18.9 C.
13-11-2020 23:28 @ 18.0 C.
Day 10 in conditioning
14-11-2020 09:16 @ 18.7 C.
14-11-2020 13:28 @ 18.3 C.
14-11-2020 20:14 @ 18.7 C.
14-11-2020 23:52 @ 18.9 C.
Day 11 in conditioning
15-11-2020 08:24 @ 18.9 C.
15-11-2020 13:20 @ 18.3 C.
15-11-2020 17:34 @ 18.0 C.
15-11-2020 22:00 @ 18.1 C.
15-11-2020 23:53 @ 18.0 C.
Day 12 in conditioning
16-11-2020 08:23 @ 18.0 C.
16-11-2020 13:01 @ 18.4 C.
16-11-2020 17:41 @ 18.5 C.
16-11-2020 23:44 @ 18.9 C.
Day 13 in conditioning
17-11-2020 08:30 @ 18.7 C.
17-11-2020 12:55 @ 18.7 C.
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Batch Notes
17-11-2020 18:51 @ 18.7 C.
17-11-2020 23:21 @ 18.8 C.
Day 14 in conditioning
18-11-2020 08:41 @ 18.0 C.
18-11-2020 13:03 @ 18.8 C.
18-11-2020 20:36 @ 18.2 C.
Day 15 in condioning
19-11-2020 00:06 @ 18.1 C.
19-11-2020 08:37 @ 18.1 C.
19-11-2020 13:50 @ 18.5 C.
19-11-2020 23:20 @ 18.9 C.
Day 16 in conditioning
20-11-2020 07:54 @ 18.1 C.
20-11-2020 14:09 @ 17.7 C.
20-11-2020 19:26 @ 17.5 C.
20-11-2020 23:17 @ 17.4 C.
Day 17 in conditioning
21-11-2020 08:51 @ 17.0 C.
21-11-2020 12:19 @ 17.9 C.
21-11-2020 15:37 @ 17.8 C.
Day 18 in conditioning
22-11-2020 00:19 @ 18.8 C.
22-11-2020 01:02 @ 18.2 C.
22-11-2020 09:26 @ 19.1 C.
22-11-2020 12:36 @ 18.4 C.
22-11-2020 15:50 @ 18.7 C.
22-11-2020 19:36 @ 18.7 C.
22-11-2020 23:58 @ 18.2 C.
Day 19 in conditioning
23-11-2020 07:25 @ 18.5 C.
23-11-2020 11:56 @ 18.6 C.
23-11-2020 17:08 @ 18.7 C.
23-11-2020 23:39 @ 18.5 C.
Day 20 in conditioning
24-11-2020 07:00 @ 18.7 C.
24-11-2020 11:59 @ 18.7 C.
24-11-2020 18:02 @ 18.5 C.
24-11-2020 23:28 @ 18.7 C.
Day 21 in cinditioning
25-11-2020 08:12 @ 18.7 C.
25-11-2020 12:45 @ 20.4 C. (newly charged battery).
25-11-2020 18:07 @ 18.4 C.
25-11-2020 23:39 @ 18.0 C.
Day 22 in conditioning
26-11-2020 08:43 @ 18.0 C.
26-11-2020 18:16 @ 18.5 C.
26-11-2020 23:59 @ 18.5 C.
Day 23 in conditioning
27-11-2020 08:13 @ 18.5 C.
27-11-2020 12:37 @ 18.7 C.
27-11-2020 20:23 @ 18.5 C.
27-11-2020 23:50 @ 18.5 C.
Day 24 in conditioning
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28-11-2020 09:18 @ 18.5 C. 28-11-2020 12:37 @ 18.2 C.



Batch Notes

28-11-2020 16:27 @ 18.0 C.

28-11-2020 20:34 @ 18.2 C. 28-11-2020 23:57 @ 18.0 C. Day 25 in conditioning 29-11-2020 09:37 @ 17.5 C. 29-11-2020 13:01 @ 18.5 C. 29-11-2020 18:03 @ 18.5 C. 29-11-2020 23:58 @ 18.0 C. Day 26 in conditioning 30-11-2020 08:45 @ 17.3 C. 30-11-2020 13:04 @ 17.1 C. 30-11-2020 19:04 @ 17.5 C. 30-11-2020 22:45 @ 17.2 C. Day 27 in conditioning 01-12-2020 08:25 @ 17.7 C. 01-12-2020 10:46 @ 18.0 C. 01-12-2020 13:47 @ 18.5 C. 01-12-2020 17:08 @ 18.2 C. 01-12-2020 22:49 @ 18.8 C. Day 28 in conditioning 02-12-2020 08:47 @ 18.1 C. 02-12-2020 13:00 @ 18.0 C. 02-12-2020 18:14 @ 18.0 C. 02-12-2020 23:10 @ 18.5 C. Day 29 in conditioning 03-12-2020 08:56 @ 17.2 C. 03-12-2020 13:32 @ 18.0 C. 03-12-2020 18:32 @ 17.2 C. 03-12-2020 23:54 @ 18.0 C. Day 30 in conditioning 04-12-2020 08:29 @ 17.2 C. 04-12-2020 12:37 @ 17.6 C. 04-12-2020 18:22 @ 17.1 C. 04-12-2020 22:40 @ 17.3 C. Day 31 in conditioning 05-12-2020 10:48 @ 17.3 C. 05-12-2020 13:31 @ 17.7 C. 05-12-2020 15:15 @ 17.8 C. 05-12-2020 17:12 @ 17.9 C. 05-12-2020 22:53 @ 17.7 C. Day 32 in conditioning 06-12-2020 09:12 @ 16.0 C. 06-12-2020 15:46 @ 16.7 C. 06-12-2020 20:18 @ 17.9 C. 06-12-2020 23:11 @ 17.2 C. Day 33 in conditioning 07-12-2020 08:25 @ 17.4 C. 07-12-2020 12:51 @ 17.1 C. 07-12-2020 17:21 @ 17.4 C. 07-12-2020 22:20 @ 17.5 C. Day 34 in conditioning 08-12-2020 07:50 @ 17.0 C. 08-12-2020 13:10 @ 17.8 C. 08-12-2020 18:46 @ 17.7 C. 08-12-2020 23:34 @ 17.6 C.



Batch Notes

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Day 35 in conditioning
09-12-2020 08:21 @ 17.2 C.
09-12-2020 13:18 @ 17.8 C.
09-12-2020 19:54 @ 17.1 C.
09-12-2020 23:18 @ 17.2 C.
Day 36 in conditioning
10-12-2020 07:56 @ 17.0 C.
10-12-2020 11:36 @ 17.0 C.
10-12-2020 18:53 @ 17.2 C.
10-12-2020 23:07 @ 17.2 C.
Day 37 in conditioning
11-12-2020 08:07 @ 16.3 C.
11-12-2020 12:52 @ 17.7 C.
11-12-2020 19:21 @ 17.7 C.
11-12-2020 22:25 @ 17.9 C.
Day 38 in conditioning
12-12-2020 09:34 @ 16.5 C.
12-12-2020 15:06 @ 17.5 C.
12-12-2020 23:35 @ 17.4 C.
Day 39 in conditioning
13-12-2020 08:22 @ 17.2 C.
13-12-2020 14:03 @ 17.3 C.
13-12-2020 20:27 @ 17.6 C.
Dag 40 in conditioning
14-12-2020 08:22 @ 17.7 C.
14-12-2020 12:53 @ 17.2 C.
14-12-2020 21:09 @ 17.5 C.
14-12-2020 23:18 @ 17.5 C.
Day 41 in conditioning
15-12-2020 08:30 @ 17.9 C.
15-12-2020 12:56 @ 17.9 C.
15-12-2020 20:10 @ 17.9 C.
Day 42 in conditioning
16-12-2020 00:09 @ 18.5 C.
16-12-2020 08:30 @ 17.4 C.
16-12-2020 12:51 @ 17.8 C.
16-12-2020 20:12 @ 17.1 C.
Day 43 in conditioning
17-12-2020 00:06 @ 17.7 C.
17-12-2020 08:29 @ 17.7 C.
17-12-2020 12:47 @ 17.2 C.
17-12-2020 19:52 @ 17.1 C.
17-12-2020 23:27 @ 17.2 C.
Day 44 in conditioning
18-12-2020 09:16 @ 17.0 C.
18-12-2020 15:19 @ 17.6 C.
18-12-2020 22:07 @ 17.7 C.
Day 45 in conditioning
19-12-2020 11:11 @ 17.3 C.
19-12-2020 18:59 @ 17.9 C.
19-12-2020 23:57 @ 17.2 C.
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Extra Measured Values

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Extra Measured Values	
Strike temperature	68.9
Strike Water pH	5.2

Batch Log	
24 October 2020	Brew Date
24 October 2020	Fermentation Start
24 October 2020 12:00	Status: Brewing
24 October 2020 18:27	Status: Fermenting
4 November 2020	Bottling Date
4 November 2020 20:15	Filled 12 Steinie bottles (33 cl).
19 December 2020 23:58	Status: Completed
21 August 2021 20:58	Status: Archived

Taste

3.0 / 5.0