Brewfather www.brewfather.app

10 EBC

SMaSH Simcoe v2 - 5.8%

American Pale Ale Brewer: The Thirsty Otter

Type: All Grain

IBU : 36 (Tinseth)
BU/GU : 0.65
Colour : 10 EBC
Carbonation : 2.4 CO2-vol

Pre-Boil Gravity : 1.028 Original Gravity : 1.055 Final Gravity : 1.011

Fermentables (393 g)

389 g - Maris Otter Pale Ale Malt 5.9 EBC (99%)

^ Lot # 694-201130-111430-176081-1/1 ^ The Malt Miller (UK) MAL-00-036

4 g - Sugar, Table (Sucrose) 2 EBC (1%)

^ Albert Heijn (NL)

Hops (5.1 g)

30 min - 1.5 g - Simcoe (T90) - 13.3% (25 IBU)
^ Lot # 694-201130-111430-176081-HOP-05-004-R...

^ The Malt Miller (UK) HOP-05-004

5 min - 1.5 g - Simcoe (T90) - 13.3% (8 IBU)
^ Lot # 694-201130-111430-176081-HOP-05-004-R...

^ The Malt Miller (UK) HOP-05-004

Hop Stand

10 min hopstand @ 80 °C

10 min - 2.1 g - Simcoe (T90) - 13.3% (3 IBU)
^ Lot # 694-201130-111430-176081-HOP-05-004-R...

^ The Malt Miller (UK) HOP-05-004

Miscellaneous

Mash - 0.236 ml - Lactic Acid 80% 80%

^ Lot # 20200213

^ Brouwstore (NL) 003.002.3

Mash - 0.851 l - NL Spa Reine Flat Mineral Water

^ Lot # 20210822

^ AH (NL)

Sparge - 1.11 l - NL Spa Reine Flat Mineral W...

^ Lot # 20210822

^ AH (NL)

30 min - Boil - 0.032 g - Lipohop K

^ The Malt Miller (UK)

10 min - Boil - 0.214 g - Irish Moss

^ Lot # 4348

^ Brouwstore (NL)

10 min - Boil - 0.011 g - Servomyces

^ Lot # 154001112904ABV

^ Brouwstore (NL)

Bottling - 2 items - 33 cl Steinie bottle Fle...

Yeast

1 pkg - Fermentis Harvested slurry from Batch...

^ Lot # 52766 1049 269

^ The Malt Miller (UK) YEA-02-025

02 PET Bottle 1.5L (60min) (rev 4)

Batch Size : 1.2 L Boil Size : 3.68 L Post-Boil Vol : 1.87 L

Mash Water : 1.17 L
Sparge Water : 2.88 L
Boil Time : 60 min
Total Water : 4.05 L

Brewhouse Efficiency: 52.7% Mash Efficiency: 79.1%

Mash Profile

01 One Step Mash (60 min) 73.3 °C - Strike Temp

67 °C - 60 min - Temperature

Fermentation Profile

01 Ale + DR + Conditioning 20 °C - 10 days - Primary

23 °C - 4 days - Diacetyl rest

20 °C - 14 days - Carbonation 15 °C - 28 days - Conditioning

Measurements

Mash pH: 5.5

Boil Volume:

Pre-Boil Gravity: 1.041

Post-Boil Kettle Volume: 1.2

Original Gravity: 1.051

Fermenter Top-Up:

Fermenter Volume: 1.2

Final Gravity: 1.002

Bottling Volume: 0.66



Recipe Notes

Malt is ordered with standard crush @ The Malt Miller (https://www.themaltmiller.co.uk/). No minerals added (Ca = 5, Mg = 2, Na = 3, Cl = 5, SO4 = 4, HCO3 = 17).

Batch Notes

```
04-04-2021 10:25 4 L Spa flat mineral water.
04-04-2021 10:26 1.1 mL Lactic acid.
04-04-2021 10:30 pH < 5.2 @ 20 C.
04-04-2021 10:38 Mash in @ 73.2 C.
Lump hunting.
04-04-2021 11:38 start batch sparging.
04-04-2021 12:45 Batch sparged with 5 L Spa flat mineral water in 3 batches.
04-04-2021 12:48 SG = 1.031 @ 48 C --> 1.041 @ 20 C.
04-04-2021 12:50 wort level = 16.5 cm --> 8.25 L pre boil volume.
04-04-2021 12:53 added 0.38 grams Lipohop K.
04-04-2021 13:07 started boil.
04-04-2021 13:37 added 5 grams Simcoe pellet hops in a hop sock.
04-04-2021 13:57 added 0.15 grams Servomyces yeast nutrient.
04-04-2021 13:57 added 1 gram Irish Moss.
04-04-2021 13:57 added wort chiller.
04-04-2021 14:02 added 5 grams Simcoe pellet hops in a hop sock.
04-04-2021 14:08 flame out
04-04-2021 14:42 start hop stand @ 79.8 C.
04-04-2021 14:42 added 10 grams Simcoe pellet hops in hop sock
04-04-2021 14:52 end hop stand @ 73.3 C.
04-04-2021 15:15 wort level = 13 cm --> 6.5 L post boil volume.
04-04-2021 15:18 SG = 1.050 @ 24.8 C --> 1.051 @ 20 C.
04-04-2021 15:20 1.2 L wort in a PET bottle with screw cap (1.5 L volume).
Day 0 in fermentation
04-04-2021 15:50 pitched harvested yeast from Batch #7 (A1) @ 24.8 C.
04-04-2021 18:33 19.2 C.
04-04-2021 21:53 19.5 C.
Day 1 in fermentation
05-04-2021 08:59 19.5 C.
05-04-2021 11:23 19.8 C.
05-04-2021 13:15 19.5 C.
05-04-2021 17:13
                   19.3 C.
05-04-2021 23:40 19.7 C.
Day 2 in fermentation
06-04-2021 08:21 19.7 C.
06-04-2021 12:42 19.8 C.
06-04-2021 15:22 19.9 C. 06-04-2021 20:22 19.5 C.
06-04-2021 22:50 20.0 C.
Day 3 in fermentation
07-04-2021 09:29 19.9 C.
07-04-2021 11:32 19.5 C. 07-04-2021 16:37 19.5 C.
07-04-2021 22:58 20.0 C.
Day 4 in fermentation
08-04-2021 07:51 19.0 C.
08-04-2021 13:12 20.0 C.
08-04-2021 17:12 19.9 C. 08-04-2021 23:14 19.3 C.
Day 5 in fermentation
09-04-2021 07:00 19.7 C.
09-04-2021 14:19 19.9 C.
09-04-2021 22:17 19.8 C.
```



Batch Notes

Day 6 in fermentation

```
10-04-2021 09:39 19.6 C.
10-04-2021 15:26 18.9 C.
10-04-2021 15:26 PET fermenter with experiment shaken, not stirred. 10-04-2021 22:16 19.4 C.
Day 7 in fermentation
11-04-2021 09:23 19.5 C.
11-04-2021 13:42 19.0 C.
11-04-2021 14:50 19.4 C.
11-04-2021 17:29 18.9 C.
11-04-2021 18:40 18.8 C.
11-04-2021 21:50 19.2 C.
Day 8 in fermentation
12-04-2021 08:13 19.4 C.
12-04-2021 13:39 19.0 C.
12-04-2021 17:40 19.1 C.
12-04-2021 22:27 19.0 C.
Day 9 in fermentation
13-04-2021 07:52 19.7 C.
13-04-2021 12:10 19.8 C.
13-04-2021 19:00 19.2 C.
13-04-2021 23:04 19.1 C.
Day 10 in fermentation
14-04-2021 08:15 19.4 C.
14-04-2021 08:22 SV = 23.0 C.
14-04-2021 12:10 21.7 C.
14-04-2021 20:00 22.3 C.
14-04-2021 23:21 23.0 C.
Day 11 in fermentation
15-04-2021 07:27 22.7 C.
15-04-2021 15:40 22.1 C.
15-04-2021 23:09 22.0 C.
Day 12 in fermentation
16-04-2021 07:30 22.0 C.
16-04-2021 12:38 22.1 C.
16-04-2021 18:07 22.8 C.
Day 13 in fermentation
17-04-2021 09:04 22.0 C.
17-04-2021 12:02 23.0 C.
17-04-2021 16:18 23.0 C.
17-04-2021 21:49 22.3 C.
Day 14 in fermentation
18-04-2021 09:24 22.8 C.
18-04-2021 14:23 22.4 C.
Bottling day
18-04-2021 17:15 FG = 1.002 @ 23 C --> ABV = 6.8 %.
18-04-2021 17:18 bottled PET fermenter beer in 2 Flensburg swing tops Steinie bottles, added 2 grams
table sugar in each bottle.
Day 1 in conditioning
19-04-2021 09:30 19.6 C.
19-04-2021 13:25 19.6 C.
19-04-2021 18:51 19.2 C.
19-04-2021 23:05 20.0 C.
Day 2 in conditioning
20-04-2021 07:52 19.6 C.
```



Batch Notes

20-04-2021 12:43 20.0 C. 20-04-2021 18:47 19.0 C. 20-04-2021 20:21 20.1 C. Day 3 in conditioning 21-04-2021 05:40 20.1 C. 21-04-2021 12:29 19.9 C. 21-04-2021 19:33 19.8 C. Day 4 in conditioning 22-04-2021 08:35 18.9 C. 22-04-2021 12:53 20.0 C. 22-04-2021 17:20 19.0 C. 22-04-2021 21:02 20.1 C. Day 5 in conditioning 23-04-2021 05:59 19.0 C. 23-04-2021 12:50 19.8 C. 23-04-2021 18:57 20.0 C. 23-04-2021 22:42 19.0 C. Day 6 in conditioning 24-04-2021 10:16 20.0 C. 24-04-2021 14:37 19.1 C. 24-04-2021 20:05 19.4 C. 24-04-2021 23:45 19.6 C. Day 7 in conditioning 25-04-2021 09:03 20.0 C. 25-04-2021 12:15 19.0 C. 25-04-2021 19:35 19.0 C. 25-04-2021 23:41 19.6 C. Day 8 in conditioning 26-04-2021 08:14 19.0 C. 26-04-2021 12:52 20.0 C. 26-04-2021 18:50 19.6 C. 26-04-2021 23:42 19.0 C. Day 9 in conditioning 27-04-2021 08:51 19.0 C. 27-04-2021 15:22 19.0 C. 27-04-2021 21:16 20.0 C. Day 10 in conditioning 28-04-2021 08:45 19.2 C. 28-04-2021 13:46 19.3 C. 28-04-2021 23:19 19.0 C. Day 11 in conditioning 29-04-2021 09:44 20.0 C. 29-04-2021 17:09 20.0 C. 29-04-2021 23:57 20.1 C. Day 12 in conditioning 30-04-2021 07:47 20.0 C. 30-04-2021 12:25 19.6 C. 30-04-2021 21:09 20.0 C. Day 13 in conditioning 01-05-2021 11:09 19.9 C. 01-05-2021 17:53 19.9 C. 01-05-2021 23:40 19.1 C. Day 14 in conditioning 02-05-2021 08:25 19.6 C.



Batch Notes

```
02-05-2021 14:35 transferred bottles to the cellar.
02-05-2021 18:12 17.3 C.
02-05-2021 23:15 16.5 C.
Day 15 in conditioning
03-05-2021 09:33 16.4 C.
03-05-2021 20:17 16.0 C.
03-05-2021 23:51 16.9 C.
Day 16 in conditioning
04-05-2021 08:15 16.2 C. 04-05-2021 14:30 16.5 C.
04-05-2021 20:30 16.3 C.
04-05-2021 23:44 16.2 C.
Day 17 in conditioning
05-05-2021 10:08 15.7 C. 05-05-2021 16:27 16.0 C.
05-05-2021 23:58 16.5 C.
Day 18 in conditioning
06-05-2021 08:20 16.4 C.
06-05-2021 16:26 16.4 C. 06-05-2021 23:45 16.9 C.
Day 19 in conditioning
07-05-2021 08:22 16.6 C.
07-05-2021 12:53 16.6 C.
07-05-2021 19:36 16.8 C.
Day 20 in conditioning
08-05-2021 00:08 16.2 C.
08-05-2021 10:44 16.0 C.
08-05-2021 15:47 16.0 C.
08-05-2021 22:29 16.5 C.
Day 21 in conditioning
09-05-2021 09:46 16.2 C.
09-05-2021 16:46 16.9 C.
09-05-2021 23:19 16.7 C.
Day 22 in conditioning
10-05-2021 10:26 16.0 C.
Day 23 in conditioning
11-05-2021 10:11 16.2 C.
11-05-2021 15:00 16.5 C.
11-05-2021 19:21 16.7 C.
11-05-2021 23:56 16.9 C.
Day 24 in conditioning
12-05-2021 09:21 16.7 C.
12-05-2021 13:41 16.7 C.
12-05-2021 18:22 16.8 C.
12-05-2021 22:16 17.0 C.
Day 25 in conditioning
13-05-2021 09:44 17.0 C.
13-05-2021 12:57 17.0 C.
13-05-2021 17:50 17.2 C.
13-05-2021 23:24 17.8 C.
Day 26 in conditioning
14-05-2021 10:26 17.2 C.
14-05-2021 13:31 17.2 C.
14-05-2021 19:21 17.1 C.
```



Batch Notes

14-05-2021 23:52 17.2 C. Day 27 in conditioning 15-05-2021 10:07 17.1 C. 15-05-2021 14:38 17.9 C. 15-05-2021 18:41 17.0 C. 15-05-2021 23:09 17.2 C. Day 28 in conditioning 16-05-2021 11:48 17.8 C. 16-05-2021 19:18 17.9 C. 16-05-2021 23:55 17.1 C. Day 29 in conditioning 17-05-2021 08:02 17.2 C. 17-05-2021 14:03 17.2 C. 17-05-2021 20:08 17.3 C. 17-05-2021 23:23 17.3 C. Day 30 in conditioning 18-05-2021 07:40 17.3 C. 18-05-2021 15:30 17.2 C. 18-05-2021 21:43 17.4 C. Day 31 in conditioning 19-05-2021 09:58 17.5 C. 19-05-2021 12:50 17.5 C. 19-05-2021 20:30 17.8 C. Day 32 in conditioning 20-05-2021 10:51 17.7 C. 20-05-2021 14:33 17.7 C. 20-05-2021 18:26 17.7 C. Day 33 in conditioning 21-05-2021 07:42 17.2 C. 21-05-2021 12:40 17.9 C. 21-05-2021 17:56 17.6 C. 21-05-2021 23:49 17.4 C. Day 34 in conditioning 22-05-2021 11:00 16.9 C. 22-05-2021 14:23 16.9 C. 22-05-2021 23:03 17.0 C. Day 35 in conditioning 23-05-2021 09:56 16.9 C. 23-05-2021 18:38 16.7 C. 23-05-2021 23:52 17.2 C. Day 36 in conditioning 24-05-2021 08:52 17.2 C. 24-05-2021 15:35 17.3 C. 24-05-2021 23:43 17.6 C. Day 37 in conditioning 25-05-2021 10:10 17.3 C. 25-05-2021 13:52 17.4 C. 25-05-2021 23:53 17.2 C. Day 38 in conditioning 26-05-2021 08:56 17.0 C. 26-05-2021 14:56 17.0 C. 26-05-2021 23:03 16.9 C. Day 39 in conditioning



Batch Notes

27-05-2021 08:36 16.9 C. 27-05-2021 12:44 16.8 C. 27-05-2021 21:29 17.2 C. Day 40 in conditioning 28-05-2021 08:52 17.2 C. 28-05-2021 18:30 17.6 C. 28-05-2021 22:09 17.8 C. Day 41 in conditioning 29-05-2021 09:41 17.1 C. 29-05-2021 15:45 17.4 C. 29-05-2021 22:02 17.8 C. Day 42 in conditioning 30-05-2021 09:24 17.0 C. 30-05-2021 16:32 17.0 C. 30-05-2021 22:47 17.2 C. Day 43 in conditioning 31-05-2021 08:39 17.7 C. 31-05-2021 16:13 17.9 C. 31-05-2021 23:20 17.5 C. Day 44 in conditioning 01-06-2021 07:50 17.1 C. 01-06-2021 17:57 17.5 C.

01-06-2021 23:09 17.0 C.

Extra Measured Values	
Strike Temperature	73.2
Strike Water pH	5.2
Sparge Water pH	6
Sparge Water Temperature	70
Pitch Temperature	24.8

Batch Log		
4 April 2021	Brew Date	
4 April 2021	Fermentation Start	
4 April 2021 10:38	Status: Brewing	
4 April 2021 15:50	Pitched US-05 yeast slurry from Batch #7 (A1) @ 24.8 C, SV = 20.0 C	
10 April 2021 15:26	Fermenter shaken, not stirred	
14 April 2021 08:22	SV = 23.0 C	
18 April 2021	Bottling Date	
18 April 2021 17:18	Filled 2 Steinie bottles (33 cl)	
18 April 2021 17:20	Status: Conditioning	
1 June 2021 23:15	Status: Completed	
31 July 2021 21:12	Status: Archived	



Taste

2.7 / 5.0