

## Batch #34 - 30 Apr 2023

## Two Pints and a Packet of Hops (Fuggle and Progress) v2 - 4.2%

## British Golden Ale

Brewer: The Thirsty Otter

Type: All Grain

IBU : 26 (Tinseth)  
 BU/GU : 0.62  
 Colour : 8 EBC  
 Carbonation : 2.4 CO2-vol

Pre-Boil Gravity : 1.020  
 Original Gravity : 1.039  
 Total Gravity : 1.041  
 Final Gravity : 1.009

## Fermentables (294 g)

294 g - Maris Otter Malt 6 EBC (100%)  
 ^ Lot # 2500001777621 (16.03.2023)  
 ^ Brouwmaatje (NL) BM-BL.051.513.2/1  
 6 g - Bottling - Sugar, Table (Sucrose) 2 EBC  
 ^ Albert Heijn (NL)

## Hops (9.8 g)

30 min - 0.9 g - Fuggle (Whole) - 5% (6 IBU)  
 ^ Worcester Hop Shop (UK)  
 15 min - 3.7 g - Fuggle (Whole) - 5% (17 IBU)  
 ^ Worcester Hop Shop (UK)

## Hop Stand

25 min hopstand @ 80 °C  
 25 min - 2.6 g - Fuggle (Whole) - 5% (3 IBU)  
 ^ Worcester Hop Shop (UK)

## Dry Hops

4 days - 2.6 g - Progress - 7.6%  
 ^ Hopeye (GB) HE-50G-HOPS-PROGRESS (50 grams)

## Miscellaneous

Mash - 0.062 g - Baking Soda (NaHCO3)  
 ^ Lot # 41190621/3  
 ^ Brouwstore (NL) 003.106.2  
 Mash - 0.163 g - Calcium Chloride (CaCl2) 33...  
 ^ Lot # 115038  
 ^ Brouwstore (NL) 055.035.0  
 Mash - 0.163 g - Canning Salt (NaCl)  
 ^ Albert Heijn (NL)  
 Mash - 0.251 g - Epsom Salt (MgSO4)  
 ^ Lot # /2119000091  
 ^ Brouwstore (NL) 055.027.7  
 Mash - 0.321 g - Gypsum (CaSO4)  
 ^ Brouwmaatje (NL)  
 Mash - 0.107 ml - Lactic Acid 80% 80%  
 ^ Lot # 20200213  
 ^ Brouwstore (NL) 003.002.3  
 Mash - 0.643 l - NL Spa Reine Flat Mineral Water  
 ^ AH (NL)  
 Sparge - 1.251 l - NL Spa Reine Flat Mineral...  
 ^ AH (NL)  
 60 min - Boil - 0.032 g - Lipohop K  
 ^ Lot # LPK110  
 ^ The Malt Miller (UK) CH-03-013  
 10 min - Boil - 0.214 g - Irish Moss  
 ^ Lot # 4348  
 ^ Brouwstore (NL) 125.249.1  
 Bottling - 2 items - Brewferm Carbonation Dro...

## 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 : 0.88 L  
 Sparge Water : 3.08 L  
 Boil Time : 60 min  
 Total Water : 3.96 L



8 EBC

Brewhouse Efficiency: 52.7%  
 Mash Efficiency: 79.1%

## Mash Profile

01 One Step Mash (60 min)  
 68.7 °C - Strike Temp  
 63 °C - 60 min - Temperature

## Fermentation Profile

Ale  
 20 °C - 10 days - Primary  
 20 °C - 45 days - Conditioning

## Water Profile

02 NL Spa Reine Flat Mineral Water (www.ah.nl...  
 Ca 116 Mg 31 Na 99 Cl 162 SO 330 HCO 69

SO/Cl ratio: 2  
 Mash pH: 4.53  
 Sparge pH: 6

## Measurements

Mash pH: 5.38

Boil Volume:

Pre-Boil Gravity: 1.026

Post-Boil Kettle Volume: 0.75

Original Gravity: 1.044

Fermenter Top-Up:

Fermenter Volume: 0.75

Final Gravity: 1.010

Bottling Volume: 0.66

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## Recipe Notes

Pitch 3 grams of yeast.

v2: skipped the 30 minute addition, increased late hop and aroma gifts to 12 grams and added a 12 grams dry hopping gift.

## Batch Notes

30-04-2023 21:05 Split off 0.75 L from Batch #33.

30-04-2023 21:15 Transferred to the brew fridge.

30-04-2023 21:18 sample pH = 5.43 @ 17.7 C.

### Day 0 in fermentation

01-05-2023 08:26 Pitched 1 g of S-04 Yeast @ 20.4 C.

01-05-2023 12:15 19.5 C.

01-05-2023 20:15 19.0 C.

01-05-2023 22:30 19.8 C.

### Day 1 in fermentation

02-05-2023 04:00 20.1 C.

02-05-2023 08:00 19.6 C.

02-05-2023 12:00 19.1 C.

02-05-2023 15:45 19.4 C.

02-05-2023 20:00 19.1 C.

### Day 2 in fermentation

03-05-2023 02:00 19.0 C.

03-05-2023 06:00 20.0 C.

03-05-2023 10:00 19.3 C.

03-05-2023 12:00 19.1 C.

03-05-2023 15:00 19.3 C.

03-05-2023 18:00 19.3 C.

03-05-2023 23:00 20.1 C.

### Day 3 in fermentation

04-05-2023 00:00 19.4 C.

04-05-2023 04:00 19.2 C.

04-05-2023 08:00 20.2 C.

04-05-2023 12:00 19.7 C.

04-05-2023 16:00 19.4 C.

04-05-2023 20:00 19.2 C.

### Day 4 in fermentation

05-05-2023 00:00 19.1 C.

05-05-2023 04:00 19.1 C.

05-05-2023 08:00 19.0 C.

05-05-2023 12:00 19.2 C.

05-05-2023 16:15 19.3 C.

05-05-2023 20:00 19.4 C.

05-05-2023 22:00 19.1 C.

### Day 5 in fermentation

06-05-2023 00:00 20.1 C.

06-05-2023 04:15 19.3 C.

06-05-2023 09:00 18.9 C.

06-05-2023 12:00 19.2 C.

06-05-2023 13:45 19.5 C.

06-05-2023 16:00 19.2 C.

06-05-2023 20:00 19.2 C.

### Day 6 in fermentation

07-05-2023 00:00 20.1 C.

07-05-2023 04:00 19.2 C.

07-05-2023 07:30 20.3 C.

07-05-2023 12:00 20.4 C.

07-05-2023 16:00 19.1 C.

07-05-2023 17:00 19.5 C.

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## Batch Notes

07-05-2023 20:00 19.1 C.

### Day 7 in fermentation

08-05-2023 00:00 19.9 C.

08-05-2023 04:00 19.8 C.

08-05-2023 08:00 19.0 C.

08-05-2023 12:00 19.1 C.

08-05-2023 16:00 19.3 C.

08-05-2023 20:00 19.1 C.

08-05-2023 21:40 Added 2.64 grams Progress hops for dry hopping.

### Day 8 in fermentation

09-05-2023 00:00 19.0 C.

09-05-2023 04:00 19.8 C.

09-05-2023 07:00 20.4 C.

09-05-2023 12:00 19.0 C.

09-05-2023 16:00 19.3 C.

09-05-2023 18:45 20.0 C.

09-05-2023 20:15 19.1 C.

### Day 9 in fermentation

10-05-2023 00:00 19.1 C.

10-05-2023 04:00 19.3 C.

10-05-2023 07:30 19.2 C.

10-05-2023 12:00 20.4 C.

10-05-2023 16:00 20.3 C.

10-05-2023 18:45 19.4 C.

10-05-2023 21:00 19.5 C.

10-05-2023 21:45 20.3 C.

### Day 10 in fermentation

11-05-2023 00:00 19.7 C.

11-05-2023 04:00 19.7 C.

11-05-2023 07:00 19.7 C.

11-05-2023 12:00 19.0 C.

11-05-2023 16:00 20.2 C.

11-05-2023 19:00 19.0 C.

11-05-2023 21:30 19.2 C.

### Day 11 in fermentation

12-05-2023 00:00 19.6 C.

12-05-2023 04:00 19.3 C.

12-05-2023 07:30 20.5 C.

12-05-2023 12:00 19.3 C.

12-05-2023 16:00 19.1 C.

12-05-2023 19:10 17.5 C, SG = 1.010, pH = 4.51.

### Day 0 in conditioning

12-05-2023 21:00 Moved bottles into the brew fridge.

### Day 1 in conditioning

13-05-2023 00:00 20.2 C.

13-05-2023 04:00 19.8 C.

13-05-2023 08:00 19.4 C.

13-05-2023 12:00 20.1 C.

13-05-2023 16:00 19.4 C.

13-05-2023 20:00 19.2 C.

### Day 2 in conditioning

14-05-2023 00:00 19.0 C.

14-05-2023 04:00 20.4 C.

14-05-2023 08:00 19.1 C.

14-05-2023 12:00 20.3 C.

14-05-2023 16:00 20.3 C.

14-05-2023 20:00 19.8 C.

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### Day 3 in conditioning

15-05-2023 00:00 19.2 C.  
15-05-2023 04:00 20.1 C.  
15-05-2023 08:00 19.5 C.  
15-05-2023 12:00 19.3 C.  
15-05-2023 16:00 20.2 C.  
15-05-2023 20:00 19.0 C.

### Day 4 in conditioning

16-05-2023 00:00 20.2 C.  
16-05-2023 04:00 19.0 C.  
16-05-2023 08:00 19.7 C.  
16-05-2023 12:00 19.5 C.  
16-05-2023 16:00 19.8 C.  
16-05-2023 20:00 20.0 C.

### Day 5 in conditioning

17-05-2023 00:00 19.0 C.  
17-05-2023 04:00 20.1 C.  
17-05-2023 08:00 19.0 C.  
17-05-2023 12:00 20.0 C.  
17-05-2023 16:00 19.0 C.  
17-05-2023 20:00 20.1 C.

### Day 6 in conditioning

18-05-2023 00:00 19.0 C.  
18-05-2023 04:00 20.0 C.  
18-05-2023 08:00 18.9 C.  
18-05-2023 12:00 20.1 C.  
18-05-2023 16:00 18.9 C.  
18-05-2023 20:00 20.1 C.

### Day 7 in conditioning

19-05-2023 00:00 19.2 C.  
19-05-2023 04:00 19.9 C.  
19-05-2023 08:00 19.0 C.  
19-05-2023 12:00 20.0 C.  
19-05-2023 16:00 19.9 C.  
19-05-2023 20:00 19.1 C.

### Day 8 in conditioning

20-05-2023 00:00 20.2 C.  
20-05-2023 04:00 19.5 C.  
20-05-2023 08:00 19.7 C.  
20-05-2023 12:00 20.0 C.  
20-05-2023 16:00 19.3 C.  
20-05-2023 20:00 19.1 C.

### Day 9 in conditioning

21-05-2023 00:00 20.4 C.  
21-05-2023 04:00 19.9 C.  
21-05-2023 08:00 19.0 C.  
21-05-2023 12:00 20.3 C.  
21-05-2023 16:00 20.0 C.  
21-05-2023 20:00 19.8 C.

### Day 10 in conditioning

22-05-2023 00:00 19.6 C.  
22-05-2023 04:00 19.0 C.  
22-05-2023 08:00 20.3 C.  
22-05-2023 12:00 20.0 C.  
22-05-2023 16:00 19.8 C.  
22-05-2023 20:00 19.8 C.

### Day 11 in conditioning

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## Batch Notes

23-05-2023 00:00 19.8 C.  
23-05-2023 04:00 19.4 C.  
23-05-2023 08:00 20.1 C.  
23-05-2023 12:00 20.0 C.  
23-05-2023 16:00 19.2 C.  
23-05-2023 20:00 20.1 C.

### Day 12 in conditioning

24-05-2023 00:00 20.0 C.  
24-05-2023 04:00 19.0 C.  
24-05-2023 08:00 20.1 C.  
24-05-2023 12:00 19.0 C.  
24-05-2023 16:00 20.2 C.  
24-05-2023 20:00 19.5 C.

### Day 13 in conditioning

25-05-2023 00:00 19.6 C.  
25-05-2023 04:00 19.9 C.  
25-05-2023 08:00 19.1 C.  
25-05-2023 12:00 20.1 C.  
25-05-2023 16:00 19.0 C.  
25-05-2023 20:00 20.3 C.

### Day 14 in conditioning

26-05-2023 00:00 19.9 C.  
26-05-2023 04:00 19.1 C.  
26-05-2023 08:00 20.0 C.  
26-05-2023 12:00 19.3 C.  
26-05-2023 16:00 20.3 C.  
26-05-2023 20:00 19.4 C.

### Day 15 in conditioning

27-05-2023 00:00 19.5 C.  
27-05-2023 04:00 19.9 C.  
27-05-2023 08:00 19.2 C.  
27-05-2023 12:00 20.1 C.  
27-05-2023 16:00 19.1 C.  
27-05-2023 20:00 20.4 C.

### Day 16 in conditioning

28-05-2023 00:00 20.4 C.  
28-05-2023 04:00 19.4 C.  
28-05-2023 08:00 19.9 C.  
28-05-2023 12:00 20.1 C.  
28-05-2023 16:00 19.5 C.  
28-05-2023 20:00 19.4 C.

### Day 17 in conditioning

29-05-2023 00:00 19.2 C.  
29-05-2023 04:00 20.2 C.  
29-05-2023 08:00 19.4 C.  
29-05-2023 12:00 20.1 C.  
29-05-2023 16:00 20.2 C.  
29-05-2023 20:00 19.4 C.

### Day 18 in conditioning

30-05-2023 00:00 19.2 C.  
30-05-2023 04:00 20.1 C.  
30-05-2023 08:00 19.0 C.  
30-05-2023 12:00 20.1 C.  
30-05-2023 16:00 19.3 C.  
30-05-2023 20:00 20.2 C.

### Day 19 in conditioning

31-05-2023 00:00 19.9 C.  
31-05-2023 04:00 19.0 C.

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31-05-2023 08:00 20.1 C.  
31-05-2023 12:00 19.0 C.  
31-05-2023 16:00 20.4 C.  
31-05-2023 20:00 20.4 C.

### Day 20 in conditioning

01-06-2023 00:00 19.8 C.  
01-06-2023 04:00 18.9 C.  
01-06-2023 08:00 20.1 C.  
01-06-2023 12:00 19.1 C.  
01-06-2023 16:00 20.2 C.  
01-06-2023 20:00 19.9 C.

### Day 21 in conditioning

02-06-2023 00:00 19.0 C.  
02-06-2023 04:00 20.1 C.  
02-06-2023 08:00 18.8 C.  
02-06-2023 12:00 20.1 C.  
02-06-2023 16:00 19.3 C.  
02-06-2023 20:00 20.1 C.

### Day 22 in conditioning

03-06-2023 00:00 20.3 C.  
03-06-2023 04:00 19.1 C.  
03-06-2023 08:00 20.1 C.  
03-06-2023 12:00 19.7 C.  
03-06-2023 16:00 19.1 C.  
03-06-2023 20:00 19.1 C.

### Day 23 in conditioning

04-06-2023 00:00 19.0 C.  
04-06-2023 04:00 20.2 C.  
04-06-2023 08:00 19.4 C.  
04-06-2023 12:00 20.1 C.  
04-06-2023 16:00 20.4 C.  
04-06-2023 20:00 20.4 C.

### Day 24 in conditioning

05-06-2023 00:00 19.9 C.  
05-06-2023 04:00 19.0 C.  
05-06-2023 08:00 20.2 C.  
05-06-2023 12:00 19.7 C.  
05-06-2023 16:00 19.3 C.  
05-06-2023 20:00 19.1 C.

### Day 25 in conditioning

06-06-2023 00:00 19.2 C.  
06-06-2023 04:00 20.3 C.  
06-06-2023 08:00 19.2 C.  
06-06-2023 12:00 20.1 C.  
06-06-2023 16:00 20.2 C.  
06-06-2023 20:00 20.1 C.

### Day 26 in conditioning

07-06-2023 00:00 19.8 C.  
07-06-2023 04:00 19.0 C.  
07-06-2023 08:00 20.3 C.  
07-06-2023 12:00 19.8 C.  
07-06-2023 16:00 19.4 C.  
07-06-2023 20:00 19.4 C.

### Day 27 in conditioning

08-06-2023 00:00 19.4 C.  
08-06-2023 04:00 19.3 C.  
08-06-2023 08:00 20.3 C.  
08-06-2023 12:00 19.3 C.

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## Batch Notes

08-06-2023 16:00 19.2 C.  
08-06-2023 20:00 19.2 C.

### Day 28 in conditioning

09-06-2023 00:00 19.2 C.  
09-06-2023 04:00 19.2 C.  
09-06-2023 08:00 19.9 C.  
09-06-2023 12:00 20.3 C.  
09-06-2023 16:00 20.3 C.  
09-06-2023 20:00 20.4 C.

### Day 29 in conditioning

10-06-2023 00:00 20.9 C.  
10-06-2023 04:00 19.0 C.  
10-06-2023 08:00 20.7 C.  
10-06-2023 12:00 20.7 C.  
10-06-2023 16:00 20.7 C.  
10-06-2023 20:00 20.5 C.

### Day 30 in conditioning

11-06-2023 00:00 18.9 C.  
11-06-2023 04:00 21.0 C.  
11-06-2023 08:00 19.8 C.  
11-06-2023 12:00 20.8 C.  
11-06-2023 16:00 19.1 C.  
11-06-2023 20:00 20.1 C.

### Day 31 in conditioning

12-06-2023 00:00 19.3 C.  
12-06-2023 04:00 20.8 C.  
12-06-2023 08:00 19.3 C.  
12-06-2023 12:00 17.3 C.  
12-06-2023 16:00 16.7 C.  
12-06-2023 20:00 17.9 C.

### Day 32 in conditioning

13-06-2023 00:00 16.7 C.  
13-06-2023 04:00 18.1 C.  
13-06-2023 08:00 16.2 C.  
13-06-2023 12:00 17.3 C.  
13-06-2023 16:00 16.5 C.  
13-06-2023 20:00 17.1 C.

### Day 33 in conditioning

14-06-2023 00:00 16.3 C.  
14-06-2023 04:00 16.8 C.  
14-06-2023 08:00 17.5 C.  
14-06-2023 12:00 17.3 C.  
14-06-2023 16:00 16.8 C.  
14-06-2023 20:00 18.0 C.

### Day 34 in conditioning

15-06-2023 00:00 16.3 C.  
15-06-2023 04:00 17.4 C.  
15-06-2023 08:00 16.4 C.  
15-06-2023 12:00 16.5 C.  
15-06-2023 16:00 17.8 C.  
15-06-2023 20:00 16.5 C.

### Day 35 in conditioning

16-06-2023 00:00 17.7 C.  
16-06-2023 04:00 16.3 C.  
16-06-2023 08:00 16.6 C.  
16-06-2023 12:00 17.5 C.  
16-06-2023 16:00 16.5 C.  
16-06-2023 20:00 17.5 C.

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### Day 36 in conditioning

17-06-2023 00:00 16.5 C.  
17-06-2023 04:00 16.9 C.  
17-06-2023 08:00 17.4 C.  
17-06-2023 12:00 17.9 C.  
17-06-2023 16:00 16.4 C.  
17-06-2023 20:00 17.7 C.

### Day 37 in conditioning

18-06-2023 00:00 16.3 C.  
18-06-2023 04:00 17.1 C.  
18-06-2023 08:00 17.7 C.  
18-06-2023 12:00 16.3 C.  
18-06-2023 16:00 17.7 C.  
18-06-2023 20:00 16.5 C.

### Day 38 in conditioning

19-06-2023 00:00 17.3 C.  
19-06-2023 04:00 16.4 C.  
19-06-2023 08:00 16.6 C.  
19-06-2023 12:00 17.5 C.  
19-06-2023 16:00 16.5 C.  
19-06-2023 20:00 17.0 C.

### Day 39 in conditioning

20-06-2023 00:00 16.8 C.  
20-06-2023 04:00 16.6 C.  
20-06-2023 08:00 17.4 C.  
20-06-2023 12:00 17.1 C.  
20-06-2023 16:00 16.8 C.  
20-06-2023 20:00 16.5 C.

### Day 40 in conditioning

21-06-2023 00:00 16.8 C.  
21-06-2023 04:00 17.8 C.  
21-06-2023 08:00 16.5 C.  
21-06-2023 12:00 16.9 C.  
21-06-2023 16:00 18.0 C.  
21-06-2023 20:00 16.6 C.

### Day 41 in conditioning

22-06-2023 00:00 17.7 C.  
22-06-2023 04:00 16.3 C.  
22-06-2023 08:00 16.7 C.  
22-06-2023 12:00 17.3 C.  
22-06-2023 16:00 16.5 C.  
22-06-2023 20:00 16.7 C.

### Day 42 in conditioning

23-06-2023 00:00 17.6 C.  
23-06-2023 04:00 16.3 C.  
23-06-2023 08:00 16.2 C.  
23-06-2023 12:00 16.7 C.  
23-06-2023 16:00 17.7 C.  
23-06-2023 20:00 16.4 C.

### Day 43 in conditioning

24-06-2023 00:00 17.4 C.  
24-06-2023 04:00 16.4 C.  
24-06-2023 08:00 16.5 C.  
24-06-2023 12:00 17.1 C.  
24-06-2023 16:00 16.7 C.  
24-06-2023 20:00 17.0 C.

### Day 44 in conditioning



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## Batch Notes

25-06-2023 00:00 16.3 C.  
25-06-2023 04:00 17.0 C.  
25-06-2023 08:00 18.0 C.  
25-06-2023 12:00 16.6 C.  
25-06-2023 16:00 16.8 C.  
25-06-2023 19:15 Moved bottles from fridge to cellar.

## Extra Measured Values

Strike Water Temperature	68.7
Strike Water pH	5.27
Sparge Water Temperature	72
Sparge Water pH	6
Pitch Temperature	20.4

## Batch Log

30 April 2023	Brew Date
30 April 2023 09:00	Status: Brewing
30 April 2023 21:15	SV = 18.5 C.
1 May 2023 08:26	Pitched 1 g of S-04 yeast @ 20.4 C.
1 May 2023	Fermentation Start
1 May 2023 09:29	SV = 20.0 C.
8 May 2023 21:40	Added 2.64 gram Progress hops for dry hopping.
12 May 2023 19:10	Filled 2 Lochmund bottles (33 cl).
12 May 2023	Bottling Date
12 June 2023 10:19	SV = 17.0 C.
26 June 2023 23:59	Status: Completed