

Refuse/Resist (Ukrainian Golden Ale) v2 - 6.6%

Ukrainian Golden Ale 02 PET Bottle 1.5L (60min) (rev 4) : 1.2 L Brewer: The Thirsty Otter Batch Size Boil Size : 3.68 L Post-Boil Vol : 1.87 L Type: All Grain IBU : 24 (Tinseth) Mash Water : 1.52 L BU/GU : 0.33 Sparge Water : 2.65 L **15 EBC** Colour : 15 EBC Boil Time : 60 min Carbonation : 2 CO2-vol Total Water : 4.17 L : 1.036 Pre-Boil Gravity Brewhouse Efficiency: 52.7% Original Gravity : 1.071 Mash Efficiency: 79.1% Total Gravity : 1.073 Mash Profile Final Gravity : 1.023 04 High fermentability (60 min) Fermentables (507 g) 77.8 °C - Strike Temp 469 g - Pale Ale Malt 10 EBC (92.5%) 71 °C - 60 min - Temperature ^ Lot # (28.06.2022) ^ Brouwmaatje (NL) BM-BL.051.613.25/1 Fermentation Profile 23 g - Wheat Malt 5.5 EBC (4.5%) 01 Ale + DR + Conditioning ^ Lot # (09.09.2021) 17 °C - 10 days - Primary 21 °C - 4 days - Diacetyl rest ^ Brouwmaatje (NL) 051.125.3 18 °C - 14 days - Carbonation 15 g - Chateau Biscuit 45 EBC (3%) 18 °C - 28 days - Conditioning ^ Lot # 5425000394839 (24.11.2022) 7 g - Bottling - Sugar, Table (Sucrose) 2 EBC Water Profile ^ Albert Heijn (NL) NL Spa Reine Flat Mineral Water (www.ah.nl) (... Hops (4.6 g) Ca 108 Mg 9 Na 8 Cl 128 SO 121 HCO 17 60 min - 1.3 g - Cascade (T90) - 7.5% (16 IBU) ^ Brouwmaatje (NL) BM-BL.053.148.3/100 SO/Cl ratio: 1 30 min - 0.9 g - Saaz - 3.6% (4 IBU) Mash pH: 4.79 ^ Lot # T9020044SAA Sparge pH: 6 ^ Brouwmaatje (NL) BM-HUM.420000 Humlegarden... 15 min - 1.2 g - Saaz - 3.6% (3 IBU) Measurements ^ Lot # T9020044SAA ^ Brouwmaatje (NL) BM-HUM.420000 Humlegarden... Mash pH: 5.34 Hop Stand Boil Volume: 30 min hopstand @ 80 °C Pre-Boil Gravity: 1.050 30 min - 1.2 g - Saaz - 3.6% (1 IBU) ^ Lot # T9020044SAA ^ Brouwmaatje (NL) BM-HUM.420000 Humlegarden... Post-Boil Kettle Volume: Miscellaneous Original Gravity: 1.071 Mash - 0.489 g - Calcium Chloride (CaCl2) 33... ^ Lot # 115038 Fermenter Top-Up: ^ Brouwstore (NL) 055.035.0 Mash - 0.011 g - Canning Salt (NaCl) Fermenter Volume: 1.2 ^ Albert Heijn (NL) Mash - 0.062 g - Epsom Salt (MgSO4) Final Gravity: 1.013 ^ Lot # /2119000091 ^ Brouwstore (NL) 055.027.7 Bottling Volume: 0.75 Mash - 0.144 g - Gypsum (CaSO4) ^ Brouwmaatje (NL) Mash - 0.129 ml - Lactic Acid 80% 80% ^ Lot # 20200213 ^ Brouwstore (NL) 003.002.3

^ Brouwstore (NL) 5 min - Boil - 1.2 g - Coriander Seed

10 min - Boil - 0.214 g - Irish Moss

^ AH (NL)

^ AH (NL)

^ Lot # 4348

Mash - 1.111 l - NL Spa Reine Flat Mineral Water

Sparge - 0.984 1 - NL Spa Reine Flat Mineral...



Recipe Notes

Add aroma hops and cool over night.

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Day 0 in fermentation
26-11-2024 09:10 pH = 5.07 @ 13.9 C.
26-11-2024 09:14
                  pitched 2.28 grams S04 yeast.
26-11-2024 12:00 17.0 C.
26-11-2024 16:00 16.1 C.
26-11-2024 20:00 17.1 C.
Day 1 in fermentation
27-11-2024 00:00 17.5 C.
27-11-2024 04:00 17.5 C.
27-11-2024 08:00 17.5 C.
27-11-2024 12:00 17.1 C., shake.
27-11-2024 16:00 16.5 C.
27-11-2024 20:00 17.0 C.
Day 2 in fermentation
28-11-2024 00:00 17.5 C.
28-11-2024 04:00 17.5 C.
28-11-2024 08:00 16.5 C.
28-11-2024 12:00 16.7 C., shake.
28-11-2024 16:00 17.1 C.
28-11-2024 20:00 17.3 C.
Day 3 in fermentation
29-11-2024 00:00 17.5 C.
29-11-2024 04:00 17.6 C.
29-11-2024 08:00 17.5 C.
29-11-2024 12:00 17.5 C.
29-11-2024 16:00 17.5 C.
29-11-2024 20:00 17.5 C.
Day 4 in fermentation
30-11-2024 00:00 17.5 C.
30-11-2024 04:00 17.4 C.
30-11-2024 08:00 17.1 C.
30-11-2024 12:00 16.8 C.
30-11-2024 16:00 17.4 C.
30-11-2024 20:00 17.0 C.
Day 5 in fermentation
01-12-2024 00:00 17.5 C.
01-12-2024 04:00 17.4 C.
01-12-2024 08:00 17.0 C.
01-12-2024 12:00 16.8 C.
01-12-2024 16:00 16.5 C.
01-12-2024 20:00 17.0 C.
Day 6 in fermentation
02-12-2024 00:00 17.3 C.
02-12-2024 04:00 17.5 C.
02-12-2024 08:00 17.5 C.
02-12-2024 12:00 17.4 C.
02-12-2024 16:00 17.5 C.
02-12-2024 20:00 17.5 C.
Day 7 in fermentation
03-12-2024 00:00 17.5 C.
03-12-2024 04:00 17.5 C.
03-12-2024 08:00 17.7 C.
03-12-2024 12:00 17.5 C.
03-12-2024 16:00 17.5 C.
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03-12-2024 20:00 17.5 C.
Day 8 in fermentation
04-12-2024 00:00 17.5 C.
04-12-2024 03:45 17.5 C.
04-12-2024 08:00 17.2 C.
04-12-2024 12:00 17.1 C.
04-12-2024 16:00 17.0 C.
04-12-2024 20:00 16.4 C.
04-12-2024 23:45 16.7 C.
Day 9 in fermentation
05-12-2024 04:00 16.5 C.
05-12-2024 08:00 16.5 C.
05-12-2024 12:00 16.7 C.
05-12-2024 16:00 16.9 C.
05-12-2024 20:00 16.9 C.
Day 10 in fermentation
06-12-2024 00:00 17.1 C.
06-12-2024 04:00 16.9 C.
06-12-2024 08:15 17.5 C.
06-12-2024 12:00 17.1 C.
06-12-2024 16:00 17.5 C.
06-12-2024 20:00 19.8 C.
Day 11 in fermentation
07-12-2024 01:00 21.0 C.
07-12-2024 04:00 21.0 C.
07-12-2024 08:00
                  21.0 C.
07-12-2024 12:00
                 20.8 C.
07-12-2024 16:00 20.5 C.
07-12-2024 20:00 20.1 C.
Day 12 in fermentation
08-12-2024 00:00 20.0 C.
08-12-2024 04:00
                  20.1 C.
08-12-2024 08:00 20.4 C.
08-12-2024 12:00 20.5 C.
08-12-2024 16:00 20.7 C.
08-12-2024 20:00 21.0 C.
Day 13 in fermentation
09-12-2024 00:00 20.7 C.
09-12-2024 04:00 20.5 C.
09-12-2024 08:00 20.2 C.
09-12-2024 12:00 20.2 C.
09-12-2024 16:00 20.0 C.
09-12-2024 20:00 20.0 C.
Day 14 in fermentation
10-12-2024 00:00 20.0 C.
10-12-2024 04:00 20.1 C.
10-12-2024 08:00
                 20.4 C.
10-12-2024 12:00
                  20.9 C.
10-12-2024 16:00
                 21.1 C.
10-12-2024 20:00 21.1 C.
Day 15 in fermentation
11-12-2024 00:00 21.0 C.
11-12-2024 04:00 20.8 C.
11-12-2024 08:00 20.4 C.
11-12-2024 12:00
                 20.2 C.
11-12-2024 16:00 20.0 C.
11-12-2024 20:00 20.0 C.
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Batch Notes
Day 16 in fermentation
12-12-2024 00:00 20.0 C.
12-12-2024 04:00 20.1 C.
12-12-2024 08:00
                  20.3 C.
12-12-2024 12:00 20.7 C.
12-12-2024 16:00 21.0 C.
12-12-2024 20:00 21.0 C.
Day 17 in fermentation
13-12-2024 00:00 20.9 C.
13-12-2024 04:00 20.9 C.
13-12-2024 08:00 20.3 C.
13-12-2024 12:00 20.0 C.
13-12-2024 16:00 20.0 C.
Bottling day
13-12-2024 17:14 15.4 C., SG = 1.013, pH = 4.10.
13-12-2024 17:14 Bottles 3 33cl bottles with 25 cl each.
Day 0 in conditioning
13-12-2024 20:00 19.9 C.
Day 1 in conditioning
14-12-2024 00:00 17.3 C.
14-12-2024 04:00 17.5 C.
14-12-2024 08:00 17.4 C.
14-12-2024 12:00 16.9 C.
14-12-2024 16:00 16.8 C.
14-12-2024 20:00 16.5 C.
Day 2 in conditioning
15-12-2024 02:30 17.1 C.
15-12-2024 04:00 16.5 C.
15-12-2024 08:00 16.9 C.
15-12-2024 12:00 17.3 C.
15-12-2024 16:00 13.2 C.
15-12-2024 20:00 16.8 C.
Day 3 in conditioning
16-12-2024 00:00 16.9 C.
16-12-2024 04:00 17.3 C.
16-12-2024 08:00 17.5 C.
16-12-2024 12:00 17.1 C.
16-12-2024 16:00 16.7 C.
16-12-2024 20:00 16.8 C.
Day 4 in conditioning
17-12-2024 00:00 17.5 C.
17-12-2024 04:00 17.0 C.
17-12-2024 08:00 16.5 C.
17-12-2024 12:00 17.2 C.
17-12-2024 16:00 17.1 C.
17-12-2024 19:45 16.7 C.
Day 5 in conditioning
18-12-2024 00:00 17.4 C.
18-12-2024 04:00 17.1 C.
18-12-2024 08:00 16.5 C.
18-12-2024 12:00 17.5 C.
18-12-2024 16:00 16.7 C.
18-12-2024 20:00 16.7 C.
Day 6 in conditioning
19-12-2024 00:00 17.5 C.
19-12-2024 04:00 17.2 C.
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19-12-2024 08:00 16.7 C.



Batch Notes 19-12-2024 12:00 16.8 C. 19-12-2024 16:00 17.5 C. 19-12-2024 20:00 17.0 C. Day 7 in conditioning 20-12-2024 00:00 16.5 C. 20-12-2024 04:00 17.1 C. 20-12-2024 08:00 17.4 C. 20-12-2024 12:00 17.2 C. 20-12-2024 16:00 16.5 C. 20-12-2024 20:00 16.8 C. Day 8 in conditioning 21-12-2024 00:00 17.4 C. 21-12-2024 04:00 16.7 C. 21-12-2024 08:00 17.1 C. 21-12-2024 12:00 17.4 C. 21-12-2024 16:00 16.4 C. 21-12-2024 20:00 17.0 C. Day 9 in conditioning 22-12-2024 00:00 17.6 C. 22-12-2024 04:00 16.6 C. 22-12-2024 08:00 16.9 C. 22-12-2024 12:00 17.5 C. 22-12-2024 16:00 17.0 C. 22-12-2024 20:00 16.5 C. Day 10 in conditioning 23-12-2024 00:00 16.6 C. 23-12-2024 04:00 16.8 C. 23-12-2024 08:00 17.0 C. 23-12-2024 12:00 17.2 C. 23-12-2024 16:00 17.4 C. 23-12-2024 20:00 17.4 C. Day 11 in conditioning 24-12-2024 00:00 17.5 C. 24-12-2024 04:00 17.6 C. 24-12-2024 08:00 17.5 C. 24-12-2024 12:00 17.6 C. 24-12-2024 15:45 17.5 C. 24-12-2024 20:00 17.1 C. Day 12 in conditioning 25-12-2024 00:00 16.5 C. 25-12-2024 04:00 16.8 C. 25-12-2024 08:00 17.2 C. 25-12-2024 12:00 17.5 C. 25-12-2024 16:00 17.2 C. 25-12-2024 20:00 16.7 C. Day 13 in conditioning 26-12-2024 00:00 16.5 C. 26-12-2024 04:00 17.0 C. 26-12-2024 08:00 17.4 C. 26-12-2024 12:00 17.5 C. 26-12-2024 16:00 16.8 C. 26-12-2024 20:00 16.6 C. Day 14 in conditioning 27-12-2024 00:00 17.1 C. 27-12-2024 04:15 17.5 C. 27-12-2024 08:00 17.4 C. 27-12-2024 12:00 16.6 C.

27-12-2024 16:00 16.5 C.



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27-12-2024 20:00 16.7 C.
Day 15 in conditioning
28-12-2024 00:00 16.8 C.
28-12-2024 04:00 16.9 C.
28-12-2024 08:00 16.9 C.
28-12-2024 12:00 16.8 C.
28-12-2024 16:00 16.8 C.
28-12-2024 20:00 16.8 C.
Day 16 in conditioning
29-12-2024 00:00 16.6 C.
29-12-2024 04:00 16.5 C.
29-12-2024 08:00 16.8 C.
29-12-2024 12:00 17.1 C.
29-12-2024 16:00 16.8 C.
29-12-2024 20:00 16.7 C.
Day 17 in conditioning
30-12-2024 00:00 16.5 C.
30-12-2024 04:00 16.5 C.
30-12-2024 08:00 16.8 C.
30-12-2024 12:00 17.2 C.
30-12-2024 16:00 17.3 C.
30-12-2024 20:00 17.4 C.
Day 18 in conditioning
31-12-2024 00:00 17.4 C.
31-12-2024 04:00 16.7 C.
31-12-2024 08:00 16.7 C.
31-12-2024 12:00 17.0 C.
31-12-2024 16:00 17.0 C.
31-12-2024 20:00 17.1 C.
Day 19 in conditioning
01-01-2025 00:00 17.2 C.
01-01-2025 04:00 17.4 C.
01-01-2025 08:00 17.0 C.
01-01-2025 12:00 16.5 C.
01-01-2025 16:00 16.7 C.
01-01-2025 20:00 17.0 C.
Day 20 in conditioning
02-01-2025 00:00 17.1 C.
02-01-2025 04:00 17.3 C.
02-01-2025 08:00 17.4 C.
02-01-2025 12:00 17.3 C.
02-01-2025 16:00 17.2 C.
02-01-2025 20:00 17.3 C.
Day 21 in conditioning
03-01-2025 00:00 17.0 C.
03-01-2025 04:00 16.8 C.
03-01-2025 08:00 16.6 C.
03-01-2025 12:00 17.3 C. 03-01-2025 16:00 16.7 C.
03-01-2025 20:00 16.5 C.
Day 22 in conditioning
04-01-2025 00:00 17.5 C.
04-01-2025 04:00 17.2 C.
04-01-2025 08:00 16.9 C.
04-01-2025 12:00 16.8 C.
04-01-2025 16:00 17.4 C.
04-01-2025 20:00 17.2 C.
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Day 23 in conditioning
05-01-2025 00:00 16.9 C.
05-01-2025 04:00 17.1 C.
05-01-2025 08:00 17.2 C.
05-01-2025 12:00 16.7 C.
05-01-2025 16:00 17.2 C.
05-01-2025 20:00 17.3 C.
Day 24 in conditioning
06-01-2025 00:00 17.5 C.
06-01-2025 04:00 16.9 C.
06-01-2025 08:00 16.8 C.
06-01-2025 12:00 17.5 C.
06-01-2025 16:00 16.6 C.
06-01-2025 20:00 16.9 C.
Day 25 in conditioning
07-01-2025 00:00 17.3 C.
07-01-2025 04:00 17.5 C.
07-01-2025 08:00 17.5 C.
07-01-2025 12:00 17.3 C.
07-01-2025 16:00 16.8 C.
07-01-2025 20:00 16.8 C.
Day 26 in conditioning
08-01-2025 00:00 16.5 C.
08-01-2025 04:00 16.9 C.
08-01-2025 08:00 17.5 C.
08-01-2025 12:00 17.4 C.
08-01-2025 16:00 17.3 C.
08-01-2025 20:00 17.1 C.
Day 27 in conditioning
09-01-2025 00:00 16.9 C.
09-01-2025 04:00 16.9 C.
09-01-2025 08:00 16.5 C.
09-01-2025 12:00 17.3 C.
09-01-2025 16:00 17.1 C.
09-01-2025 20:00 16.7 C.
Day 28 in conditioning
10-01-2025 00:00 17.4 C.
10-01-2025 04:00 17.1 C.
10-01-2025 08:00 16.8 C.
10-01-2025 12:00 17.4 C.
10-01-2025 16:00 17.3 C.
10-01-2025 20:00 17.1 C.
Day 29 in conditioning
11-01-2025 00:00 16.5 C.
11-01-2025 04:00 17.2 C.
11-01-2025 08:00 17.4 C.
11-01-2025 12:00 16.5 C.
11-01-2025 16:00 17.1 C.
11-01-2025 20:00 16.7 C.
Day 30 in conditioning
12-01-2025 00:00 17.2 C.
12-01-2025 04:00 16.5 C.
12-01-2025 08:00 17.1 C.
12-01-2025 12:00 17.4 C.
12-01-2025 16:00 17.0 C.
12-01-2025 20:00 16.5 C.
Day 31 in conditioning
13-01-2025 00:00 17.3 C.
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Batch Notes 13-01-2025 04:00 16.9 C. 13-01-2025 08:00 17.3 C. 13-01-2025 12:00 16.7 C. 13-01-2025 16:00 17.3 C. 13-01-2025 20:00 16.7 C. Day 32 in conditioning 14-01-2025 00:00 17.2 C. 14-01-2025 04:00 17.3 C. 14-01-2025 08:00 17.4 C. 14-01-2025 12:00 16.5 C. 14-01-2025 16:00 17.2 C. 14-01-2025 20:00 16.8 C. Day 33 in conditioning 15-01-2025 00:00 16.5 C. 15-01-2025 04:00 16.6 C. 15-01-2025 08:00 16.9 C. 15-01-2025 12:00 16.5 C. 15-01-2025 16:00 16.9 C. 15-01-2025 20:00 17.0 C. Day 34 in conditioning 16-01-2025 00:00 17.3 C. 16-01-2025 04:00 16.7 C. 16-01-2025 08:00 16.5 C. 16-01-2025 12:00 17.0 C. 16-01-2025 16:00 17.1 C. 16-01-2025 20:00 17.0 C. Day 35 in conditioning 17-01-2025 00:00 17.1 C. 17-01-2025 04:00 17.1 C. 17-01-2025 08:00 16.9 C. 17-01-2025 12:00 16.7 C. 17-01-2025 16:00 16.4 C. 17-01-2025 20:00 17.4 C. Day 36 in conditioning 18-01-2025 00:00 17.1 C. 18-01-2025 04:00 16.7 C. 18-01-2025 08:00 17.2 C. 18-01-2025 12:00 16.5 C. 18-01-2025 16:00 17.1 C. 18-01-2025 20:00 17.4 C. Day 37 in conditioning 19-01-2025 00:00 17.4 C. 19-01-2025 04:00 16.9 C. 19-01-2025 08:00 17.3 C. 19-01-2025 12:00 17.4 C. 19-01-2025 16:00 16.5 C. 19-01-2025 20:00 16.9 C. Day 38 in conditioning 20-01-2025 00:00 17.2 C. 20-01-2025 04:00 17.3 C. 20-01-2025 08:00 17.3 C. 20-01-2025 16:00 17.0 C. 20-01-2025 20:00 17.2 C. Day 39 in conditioning 21-01-2025 00:00 17.4 C. 21-01-2025 04:00 16.9 C. 21-01-2025 08:00 17.2 C. 21-01-2025 12:00 17.4 C.



21-01-2025 16:00 16.7 C. 21-01-2025 20:00 17.2 C. Day 40 in conditioning 22-01-2025 00:00 17.3 C. 22-01-2025 04:00 17.4 C. 22-01-2025 08:00 17.3 C. 22-01-2025 12:00 16.9 C. 22-01-2025 16:00 17.2 C. 22-01-2025 20:00 16.8 C. Day 41 in conditioning 23-01-2025 00:00 17.0 C. 23-01-2025 08:00 17.0 C. 23-01-2025 12:00 16.6 C. 23-01-2025 16:00 16.7 C. 23-01-2025 16:00 16.7 C.

Day	42	in	cond	itic	ning	
24-6	91-2	2025	00:	90	16.5	С.
24-6	1-2	2025	04:	90	16.9	С.
24-6	91-2	2025	08:	90	16.9	С.
24-6	1-2	2025	12:	90	17.2	С.
24-6	91-2	2025	16:	90	17.4	С.
24-6	1-2	2025	20:	90	17.3	С.
24-6	91-2	2025	23:4	45	16.9	С.

Extra Measured Values	
Strike Water Temperature	71
Sparge Water Temperature	71
Strike Water pH	4.41
Sparge Water pH	6.64
Pitch Temperature	13.9

Batch Log					
25 November 2024	Brew Date				
25 November 2024 11:00	Status: Brewing				
25 November 2024 16:20	Split off 1.2 L wort from Batch #41.				
26 November 2024 09:00	SV = 17.0 C.				
26 November 2024 09:14	Status: Fermenting				
26 November 2024	Fermentation Start				
26 November 2024 16:38	SV = 17.5 C.				
6 December 2024 17:35	SV = 21.0 C.				
13 December 2024 17:14	Filled 3 Vichy bottles (25 cl).				
13 December 2024	Bottling Date				
13 December 2024 20:50	SV = 17.5 C.				



Batch Log

24 January 2025 23:59 Status: Completed