

263 Happiness IPA 5G All Grain

American Pale Ale (18 B)

Type: All Grain
Batch Size: 5.00 gal
Boil Size: 6.53 gal
Boil Time: 60 min
End of Boil Vol: 5.99 gal
Final Bottling Vol: 4.60 gal
Fermentation: Ale, Two Stage

Date: 20 May 2021
Brewer: Thomas Monti
Asst Brewer:
Equipment: All Grain - Standard 5 Gal/19l Batch - Cooler
Efficiency: 72.00 %
Est Mash Efficiency: 82.8 %
Taste Rating: 30.0



Taste Notes:

Prepare for Brewing

- Hydrate yeast with 304.26 ml warm water and add optional 15.2 g of GoFerm
- Clean and Prepare Brewing Equipment
- Total Water Needed: 8.08 gal
- Mash Water Acid: None

Water Prep

Amt	Name	Type	#	%/IBU	Volume
8.44 gal	12/20 water	Water	1	-	-

Mash or Steep Grains

Mash Ingredients

Amt	Name	Type	#	%/IBU	Volume
5 lbs	Munich I (Weyermann) (7.1 SRM)	Grain	2	46.0 %	0.39 gal
3 lbs	Brewers Malt 2-Row (Briess) (1.8 SRM)	Grain	3	27.6 %	0.23 gal
1 lbs 8.0 oz	Acidulated (Weyermann) (1.8 SRM)	Grain	4	13.8 %	0.12 gal
1 lbs 6.0 oz	Carapils (Briess) (1.5 SRM)	Grain	5	12.6 %	0.11 gal

Mash Steps

Name	Description	Step Temperature	Step Time
Mash In	Add 3.40 gal of water at 164.7 F	150.0 F	75 min

- Sparge Water Acid: None
- Fly sparge with 4.69 gal water at 168.0 F

First Wort Hops

Amt	Name	Type	#	%/IBU	Volume
0.50 oz	Centennial [10.00 %] - First Wort 60.0 min	Hop	6	18.2 IBUs	-

- Add water to achieve boil volume of 6.53 gal
- Estimated pre-boil gravity is 1.050 SG

Boil Ingredients

Amt	Name	Type	#	%/IBU	Volume
1.00 oz	Centennial [10.00 %] - Boil 10.0 min	Hop	7	12.0 IBUs	-

Steeped Hops

Amt	Name	Type	#	%/IBU	Volume
1.00 oz	Centennial [10.00 %] - Steep/Whirlpool 20.0 min, 194.4 F	Hop	8	10.0 IBUs	-

- Estimated Post Boil Vol: 5.99 gal and Est Post Boil Gravity: 1.056 SG

Cool and Transfer Wort

- Cool wort to fermentation temperature
- Transfer wort to fermenter
- Add water if needed to achieve final volume of 5.00 gal

Pitch Yeast and Measure Gravity and Volume

Fermentation Ingredients

Amt	Name	Type	#	%/IBU	Volume
1.0 pkg	Voss Kveik Ale Yeast (Lallemand #-) [50.28 ml]	Yeast	9	-	-

- Measure Actual Original Gravity _____ (Target: 1.056 SG)
- Measure Actual Batch Volume _____ (Target: 5.00 gal)

Fermentation

- 20 May 2021 - Primary Fermentation (4.00 days at 67.0 F ending at 67.0 F)
- 24 May 2021 - Secondary Fermentation (10.00 days at 67.0 F ending at 67.0 F)

Dry Hop and Bottle/Keg

Dry Hop/Bottling Ingredients

Amt	Name	Type	#	%/IBU	Volume
0.50 oz	Centennial [10.00 %] - Dry Hop 0.0 Days	Hop	10	0.0 IBUs	-

- Measure Final Gravity: _____ (Estimate: 1.011 SG)
- Date Bottled/Kegged: 03 Jun 2021 - Carbonation: Bottle with 3.61 oz Corn Sugar
- Age beer for 30.00 days at 65.0 F
- 03 Jul 2021 - Drink and enjoy!

Notes