

413 Black Sails IPA 5G AG

Black IPA (21 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: 02 Jan 2024
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 356.04 ml warm water and add optional 17.8 g of GoFerm
- Clean and Prepare Brewing Equipment
- Total Water Needed: 8.30 gal
- Mash Water Acid: None

Mash or Steep Grains

Mash Ingredients

Amt	Name	Type	#	%/IBU	Volume
8 lbs 3.0 oz	Malteurop 2-Row Pale (2.1 SRM)	Grain	1	64.8 %	0.64 gal
1 lbs 3.0 oz	Acidulated (Weyermann) (1.8 SRM)	Grain	2	9.4 %	0.09 gal
1 lbs 3.0 oz	Carafoam (Weyermann) (2.0 SRM)	Grain	3	9.4 %	0.09 gal
1 lbs 3.0 oz	Malteurop Dextrin (1.8 SRM)	Grain	4	9.4 %	0.09 gal
7.0 oz	Black Malt (Briess) (500.0 SRM)	Grain	5	3.5 %	0.03 gal
7.0 oz	Carafa Special III (Weyermann) (470.0 SRM)	Grain	6	3.5 %	0.03 gal

Mash Steps

Name	Description	Step Temperature	Step Time
Mash In	Add 3.95 gal of water at 164.2 F	150.0 F	75 min

- Sparge Water Acid: None
- Fly sparge with 4.35 gal water at 168.0 F
- Add water to achieve boil volume of 6.53 gal
- Estimated pre-boil gravity is 1.059 SG

Boil Ingredients

Amt	Name	Type	#	%/IBU	Volume
0.50 oz	Chinook [13.00 %] - Boil 60.0 min	Hop	7	19.8 IBUs	-
0.50 oz	Columbus/Tomahawk/Zeus (CTZ) [15.50 %] - Boil 60.0 min	Hop	8	23.6 IBUs	-
0.50 oz	Chinook [13.00 %] - Boil 30.0 min	Hop	9	15.2 IBUs	-
1.00 oz	Centennial [10.00 %] - Boil 5.0 min	Hop	10	6.1 IBUs	-

- Estimated Post Boil Vol: 5.99 gal and Est Post Boil Gravity: 1.067 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	Safale American (DCL/Fermentis #US-05) [50.28 ml]	Yeast	11	-	-

- Measure Actual Original Gravity _____ (Target: 1.067 SG)

Measure Actual Batch Volume _____ (Target: 5.00 gal)

Fermentation

02 Jan 2024 - Primary Fermentation (4.00 days at 67.0 F ending at 67.0 F)

06 Jan 2024 - Secondary Fermentation (10.00 days at 67.0 F ending at 67.0 F)

Dry Hop and Bottle/Keg

Measure Final Gravity: _____ (Estimate: 1.013 SG)

Date Bottled/Kegged: 16 Jan 2024 - Carbonation: Bottle with 3.61 oz Corn Sugar

Age beer for 30.00 days at 65.0 F

15 Feb 2024 - Drink and enjoy!

Notes