the Clone Ranger (IPA) v1.6

American IPA (14 B)

Type: All Grain *Batch Size:* 4.00 gal *Boil Size:* 5.01 gal *Boil Time:* 60 min *End of Boil Vol:* 4.51 gal *Final Bottling Vol:* 3.75 gal *Fermentation:* Ale, Two Stage Date: 01 May 2020 Brewer: MelloMoose Asst Brewer: Equipment: ANVIL Foundry 10.5 (5 gal batch) size Efficiency: 68.00 % Est Mash Efficiency: 73.6 % Taste Rating: 30.0



Taste Notes:

Ingredients

Amt	Name	Туре	#	%/IBU	Volume
10 lbs 4.2 oz	Pale Malt (2 Row) US (2.0 SRM)	Grain	1	95.1 %	0.80 gal
8.4 oz	Caramel/Crystal Malt -120L (120.0 SRM)	Grain	2	4.9 %	0.04 gal
0.40 oz	Chinook [13.00 %] - Boil 60.0 min	Нор	3	21.2 IBUs	-
0.40 oz	Simcoe [13.00 %] - Boil 60.0 min	Нор	4	21.2 IBUs	-
0.19 tsp	Irish Moss (Boil 10.0 mins)	Fining	5	-	-
0.40 oz	Chinook [13.00 %] - Boil 10.0 min	Нор	6	7.7 IBUs	-
0.40 oz	Simcoe [13.00 %] - Boil 10.0 min	Нор	7	7.7 IBUs	-
0.80 oz	Cascade [5.50 %] - Boil 5.0 min	Нор	8	3.6 IBUs	-
0.80 oz	Simcoe [13.00 %] - Steep/Whirlpool 15.0 min	Нор	9	10.5 IBUs	-
0.8 pkg	California Ale (White Labs #WLP001) [35.49	Yeast	10	-	-
1.52 oz	Cascade [5.50 %] - Dry Hop 5.0 Days	Нор	11	0.0 IBUs	-
1.52 oz	Simcoe [13.00 %] - Dry Hop 5.0 Days	Нор	12	0.0 IBUs	-

Gravity, Alcohol Content and Color

Est Original Gravity: 1.066 SG *Est Final Gravity:* 1.018 SG *Estimated Alcohol by Vol:* 6.5 % *Bitterness:* 71.9 IBUs *Est Color:* 11.4 SRM Measured Original Gravity: 1.058 SG Measured Final Gravity: 0.000 SG Actual Alcohol by Vol: 0.0 % Calories: 0.0 kcal/12oz

Mash Profile

Mash Name: BIAB, Full Body Sparge Water: 0.00 gal Sparge Temperature: 168.1 F Adjust Temp for Equipment: TRUE Est Mash PH: 5.62 Measured Mash PH: 0.00 Total Grain Weight: 10 lbs 12.6 oz Grain Temperature: 72.0 F Tun Temperature: 72.0 F Target Mash PH: 5.20 Mash Acid Addition: None Sparge Acid Addition: None

Mash Steps

Step

Name	Description	Temperature	Step Time
Saccharification	Add 23.20 qt of water at 164.7 F	156.0 F	60 min
Mash Out	Heat to 168.0 F over 7 min	168.0 F	10 min

Sparge: If steeping, remove grains, and prepare to boil wort

Mash Notes: Brew in a bag method where the full boil volume is mashed within the boil vessel and then the grains are withdrawn at the end of the mash. No active sparging is required. This is a full body beer profile.

Carbonation and Storage

Carbonation Type: Keg Pressure/Weight: 12.54 PSI Keg/Bottling Temperature: 45.0 F Fermentation: Ale, Two Stage Fermenter:	Volumes of CO2: 2.3 Carbonation Est: Keg with 12.54 PSI Carbonation (from Meas Vol): Keg with 12.54 PSI Age for: 30.00 days
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Storage Temperature: 65.0 F

Notes

Foundry can't be so high up; too hard to get grain basket on ring insert—almost dropped ring into kettle (had to call Sarah for help)

Pump needs to be below chiller and rotated 90° counterclockwise, so bleed will be paralel to the ground *above* the pump.

Probably shouldn't brew on the patio; shit from the balcony can fall into kettle Need a quick release on the valve on kettle

Tubes need to be just long enough; too much beer lost in the lines.

Use large syringe to prime beer line/pump; pull from bleed valve?

Chiller got wort from 179 to 71 in about 5 minutes—AWESOME

First time using Ss blow-off tube with growler (works great so far)

Left easily a gallon of beer in the Foundry, but didn't realize until I went to clean; I think the valve got clogged

Missed the expected OG by 8 points; should have been 1.066, but only got 1.058—not sure why.

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