chritmas crusher

Winter Seasonal Beer (30 C)

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: 29 Sep 2020 Brewer: 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:

Ingredients

Amt	Name	Туре	#	%/IBU	Volume
10 lbs	Pale Malt, Maris Otter (3.0 SRM)	Grain	1	74.1 %	0.78 gal
1 lbs	Caramel Malt - 60L (Briess) (60.0 SRM)	Grain	2	7.4 %	0.08 gal
8.0 oz	Chocolate Malt (350.0 SRM)	Grain	3	3.7 %	0.04 gal
8.0 oz	Honey Malt (Gambrinus) (25.0 SRM)	Grain	4	3.7 %	0.04 gal
8.0 oz	Victory Malt (biscuit) (Briess) (28.0 SRM)	Grain	5	3.7 %	0.04 gal
1 lbs	Dextrose (Briess) [Boil] (1.0 SRM)	Sugar	6	7.4 %	0.08 gal
1.00 oz	Nugget [13.00 %] - Boil 60.0 min	Нор	7	36.8 IBUs	-
2.00 oz	Orange Peel, Sweet (Boil 5.0 mins)	Spice	8	-	-
8.00 oz	Cacao Nibs (Secondary 7.0 days)	Flavor	9	-	-

Est Original Gravity: 1.076 SG Est Final Gravity: 1.013 SG Estimated Alcohol by Vol: 8.4 % Bitterness: 36.8 IBUs Est Color: 22.1 SRM

Gravity, Alcohol Content and Color

Measured Original Gravity: 1.046 SG Measured Final Gravity: 1.010 SG Actual Alcohol by Vol: 4.7 % Calories: 151.6 kcal/12oz

Mash Profile

Mash Name: Single Infusion, Light Body, No Mash Out Sparge Water: 4.37 gal Sparge Temperature: 168.0 F Adjust Temp for Equipment: TRUE Est Mash PH: 5.50 Measured Mash PH: 5.20 Total Grain Weight: 13 lbs 8.0 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

Name	Description	Step Temperature	Step Time
Mash In	Add 3.91 gal of water at 164.2 F	150.0 F	75 min

Sparge: Fly sparge with 4.37 gal water at 168.0 F

Mash Notes: Simple single infusion mash for use with most modern well modified grains (about 95% of the time).

Carbonation and Storage

Carbonation Type: Bottle Pressure/Weight: 3.61 oz Keg/Bottling Temperature: 70.0 F Fermentation: Ale, Two Stage Fermenter: Volumes of CO2: 2.3 Carbonation Est: Bottle with 3.61 oz Corn Sugar Carbonation (from Meas Vol): Bottle with 3.93 oz Corn Sugar Age for: 30.00 days Storage Temperature: 65.0 F