

2016/11/27 - Bitter Winter 5

Name	Bitter Winter 5			
Style	Extra Special/Strong Bitter		Brew Date	2016-11-27
Type	All Grain		Boil Size	13.8 gal
IBU's	30.6		Batch Size	12.0 gal
Color	10.8 SRM		Boil Time	60 min
	Estimated		Actual	
Pre-Boil OG	1.048			
OG	1.053		1.048	
FG	1.013		1.013	
ABV	5.2%		5.2%	
Efficiency	80.0%			
Grain	19.0 lbs	Pale Malt, Maris Otter 2014 Fall		86.4%
	2.5 lbs	Weyermann Caramunich II 2011 fall (1/2 sac) 2014 spring (1/4 sac)		11.4%
	0.5 lbs	Carafoam		2.3%
Mash	60 mins	152 F	Sacch' Rest	
	10 mins	170 F	Mash out	
Hops	60 mins	1.5 oz	Willamette (5.5%)	11.6 IBU
	60 mins	2.0 oz	Fuggles (5.6%)	15.7 IBU
	15 mins	0.5 oz	Fuggles (5.6%)	1.9 IBU
	0 mins	1.5 oz	Fuggles (5.6%)	-
Additions	15 min	1.0	Whirlfloc Tablet	
	15 min	0.0	Wort Immersion Chiller	
Yeast	3.0	Safale US-05		
Fermentation	Primary	14 days	68.0 F	
	Cold Crash	2 days	37.0 F	

	Bottle/Keg	1 days	37.0 F
Carbonation	Bottle Carbonation	29.2 psi	68.0 F
Notes	Changed this up a bit. Different ingredients. Day 15: sg 1016 Tastes delicious. Should just keg it now but I'll leave it for a couple more days.		