

2014/05/10 - Bitter Winter

Name	Bitter Winter			
Style	Extra Special/Strong Bitter		Brew Date	2014-05-10
Type	All Grain		Boil Size	12.8 gal
IBU's	35.5		Batch Size	11.0 gal
Color	9.2 SRM		Boil Time	60 min
	Estimated		Actual	
Pre-Boil OG	1.049			
OG	1.055		1.044	
FG	1.014		1.012	
ABV	5.4%		5.4%	
Efficiency	80.0%			
Grain	19.0 lbs	Pale Malt, Maris Otter		91.6%
	0.5 lbs	Weyermann Caramunich III		2.4%
	1.2 lbs	Weyermann Caramunich I		6.0%
Mash	90 mins	154 F	Infusion	
Hops	60 mins	3.0 oz	Goldings, East Kent (6.1%)	28.9 IBU
	10 mins	2.0 oz	Fuggles (4.5%)	5.2 IBU
	5 mins	1.0 oz	Fuggles (4.5%)	1.4 IBU
Yeast	3.0	Safale S-04		
Fermentation	Primary	14 days	68.0 F	
	Cold Crash	2 days	32.0 F	
	Bottle/Keg	1 days	32.0 F	
Notes	Ore boil sg 44 Post boil sg 45 Volume 13.75 gal Ore boil volume 14.25 gal Too much water. Boil off calc wrong Fixed to 1ga/h boil off 1012 on May 16. Day 6. Fast! 1012 on May 22. Very good!!			