

2015/02/28 - Lakefront ESB - Bitter Winter

Name	Lakefront ESB - Bitter Winter			
Style	Extra Special/Strong Bitter		Brew Date	2015-02-28
Type	All Grain		Boil Size	14.0 gal
IBU's	23.2		Batch Size	11.0 gal
Color	9.5 SRM		Boil Time	90 min
	Estimated		Actual	
Pre-Boil OG	1.044			
OG	1.052		1.048	
FG	1.013		1.013	
ABV	5.1%		5.1%	
Efficiency	85.0%			
Grain	17.0 lbs	Pale Malt, Maris Otter - 2014 Fall		87.6%
	1.5 lbs	Weyermann Caramunich II - 2011 fall (1/2 sac) - 2014 spring (1/4 sac)		7.7%
	0.9 lbs	Caramel/Crystal Malt - 20L		4.7%
Mash	60 mins	152 F	Sacch' Rest	
	10 mins	170 F	Mash out	
Hops	90 mins	2.5 oz	Fuggles (4.8%)	20.8 IBU
	15 mins	0.5 oz	Fuggles (4.8%)	1.9 IBU
	day 10	1.0 oz	Fuggles (4.8%)	
Additions	15 min	1.0	Whirlfloc Tablet	
Yeast	3.0	Safale US-05		
Fermentation	Primary	17 days	68.0 F	
	Cold Crash	2 days	37.0 F	
	Bottle/Keg	1 days	37.0 F	

Notes	Added the hops after chilling directly to the carboy. Hoping for no infection. Time will tell. This beer is the winner! Loved it.
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