ALL GRAIN







PADDLE BOAT PALE ALE

BREW DAY							
Stage/Time	Туре	Qty	Name	% AA	%/IBU		
Mash Target pH: 5.3	Grain	l I.75 lb	US Pale 2 Row	-	85.1%		
		l lb	Crystal 20L	-	7.2%		
		0.75 lb	Carapils	-	5.2%		
		0.31 lb	Acidulated Malt	-	2.2%		
Boil/60min	Нор	l oz	Magnum	12	33.6		
Boil/15min	Fining	l tablet	Whirlfloc	-	-		
	Nutrient	½ tsp	Yeast nutrient	-	-		
Whirlpool Target pH: 5.1	Нор	2 oz	Cascade	5.5	2.6		
		1.5 oz	Citra	12	4.3		



American Pale Ale (18B) Original Gravity: 1.056 – 1.070 Final Gravity: 1.008 – 1.014 Bitterness: 40 – 70 IBUs ABV: 5.5 – 7.5% SRM: 6 - 14 Overall Impression: A pale, refreshing and hoppy ale, yet wit

over all impression. A pale, refreshing and hoppy ale, yet with sufficient supporting malt to make the beer balanced and drinkable. The clean hop presence can reflect classic or modern American or New World hop varieties with a wide range of characteristics.

FERMENTATION AND BEYOND						
Stage	Туре	Qty	Name	Notes		
Pitch	Yeast	l liter	WLP001 California Ale	68 – 71°F		
Dry Hop	Нор	4 oz	Cascade	2 days ⇔ bottle		
		3 oz	Citra			

TARGET STATS BREW NOTES Batch Size 6.0 gal Mash Temp 152°F Mash Duration **OG** 1.056 60 min **FG** 1.012 **Boil Volume** 7.8 gal ~%ABV 5.8 **Boil Duration** 60 min 165°F 68 Whirlpool Temp Efficiency IBU 40 Whirlpool Time 20 min **SRM** 5.7

Notes

pH can play an important role in the final flavor in any beer. For this recipe we highly recommend measuring the pH at the mash and whirlpool. Using acidulated malt helps to reduce the pH from the start, but you can gently adjust the pH at later stages by adding small doses (0.5 ml) of 88% Lactic Acid.

The measured water profile for this brew day is as follows:

Ca 100 - MG 5 - Na 8 - Sulfate 180 - Cl 60 - Bicarbonate 20

However, you can just use charcoal filtered SD tap water.