

Boil/Whirlpool Hop additions on Bitterness in Beer.

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Recipe Name: Sandy Pup Juicy IPA (NEIPA)

Recipe Type: Partial Mash	Flavoring or Spices in this Kit:
Recipe Style: Hazy/Juicy IPA	
Brewing Statistics:	
Estimated Original Gravity (OG): 1.062	Recommended Yeast (Sold Separately)
Actual Original Gravity (OG):	Fermentis Safbrew S-33 (Dry)
Estimated Final Gravity (FG): 1.012 – 1.015*	CellarScience Hazy IPA Yeast (Dry)
Actual Final Gravity (FG):	Lallemand LalBrew® Verdant IPA Yeast (Dry)
Estimated Alcohol By Volume (ABV): 6.6%	Community Cultures (Texas) Fogbow Juicy IPA
Actual Alcohol By Volume (ABV):	(NEIPA) Yeast (Liquid)
Intl. Bitterness Units (IBU): 18.1	Wyeast: 1318 London Ale III (liquid yeast)
SRM (Color): 4.5	White Labs WLP067 Coastal Haze Ale Yeast Blend (Liquid)
Grains Included in this Kit:	Omega: OYL-052 DIPA Ale (liquid yeast)
12 oz 2 Row Malt	
12 oz Crystal 10L	* Yeast Disclosure: We designed this beer using
12 oz Flaked Wheat	Lallemand Verdant IPA yeast. Other yeasts will have
12 oz Flaked Barley	different attenuation levels which will lead to slight differences in final gravity and alcohol levels.
	Notes About My Beer:
Extract Or Other Sugars in this Kit: 6 LB Pilsen Light LME	A
1 LB Pilsen Light DME	Appearance
1 ED FISCH EIGHT DIVIL	
Hop Schedule:	Aromo
0.5 oz Citra hops add with 5 minutes left in boil	Aroma
0.5 oz Galaxy hops add with 5 minutes left in boil	
1.5 oz Citra hops whirlpool at 180° F for 15 minutes	
0.5 oz Galaxy hops whirlpool at 180° F for 15 minutes	Flavor
1 oz Citra hops dry hop for 5 days in secondary	
1 oz Galaxy hops dry hop for 5 days in secondary	
Total Boil Time: 60 Minutes	Overall
Whirlpool Instructions: For more information about	
whirlpool/steeping hop additions, the Homebrewers	
Association has a great article titled <i>The Effect of Post-</i>	