

Kathy's Spruce IPA v.4 - American IPA (14B)

Brewer Greg Burt

Date

Batch Size	5.500 gal	Boil Size	6.750 gal
Boil Time	1.000 hr	Efficiency	75%
OG	1.055 sg	FG	1.014 sg
ABV	5.6%	IBU	57.9 (Tinseth)
Color	6.6 srm (Morey)	Estimated calories (per 12 oz)	182

Fermentables

Name	Type	Amount	Mashed	Late	Yield	Color
Rahr - 2 Row Malt	Grain	12.000 lb	Yes	No	80%	2.0 srm
Caramunich Malt	Grain	8.000 oz	Yes	No	72%	56.0 srm

Total grain: 12.500 lb

Hops

Name	Alpha	Amount	Use	Time	Form	IBU
Warrior	15.5%	0.500 oz	Boil	1.000 hr	Pellet	23.4
Warrior	15.5%	1.000 oz	Boil	20.000 min	Pellet	28.4
Citra	12.0%	2.000 oz	Boil	2.000 min	Pellet	6.1

Misc

Name	Type	Use	Amount	Time
Spruce Tips	Flavor	Boil	3.000 oz	10.000 min
Gelatin	Fining	Secondary	0.250 oz	0.000 s

Yeast

Name	Type	Form	Amount	Stage
WLP001 - California Ale Yeast	Ale	Liquid	2.37 tbsp	Primary

Mash

Name	Type	Amount	Temp	Target Temp	Time
Conversion	Infusion	4.687 gal	166.141 F	150.000 F	1 hr
Final Batch Sparge	Infusion	3.688 gal	186.342 F	165.200 F	15 min