



HIPPY HOPPY HAZY IPA

FERMENTABLES

- 6 lb 2 oz Pale US 2 Row
- 6 lb 2 oz Maris Otter
- 12 oz Flaked Oats
- 1 lb 8 oz White Wheat Malt

HOP ADDITIONS

- <u>60 min:</u> 0.7 oz Pacifica (6% AA¹)
- 10 min: 0.7 oz Nectaron (10% AA) 0.7 oz Pacifica (6% AA) 0.7 oz Rakau (11% AA)
- 5 min: 0.7 oz Nectaron (10% AA)
 0.7 oz Pacifica (6% AA)
 0.7 oz Rakau (11% AA)
- Dry hop Day 1: 0.7 oz Pacifica (6% AA)
 0.7 oz Nectaron (10% AA)
 0.7 oz Rakau (11% AA)
- <u>Dry hop Day 7:</u> 0.7 oz Nectaron (10% AA)
 0.7 oz Rakau (11% AA)

YEAST

- 1 pouch WLPoo8 Next Gen East Coast Ale Yeast
- 1 pouch WLP067 Coastal Haze Ale Yeast Blend Ideal fermentation temperature: 68-72F

ADDITIVES

- 1 lb hibiscus
- Yeast Nutrient: 1/2 tsp White Labs (1/2 tsp/gal Biotin)

Target Statistics ²		Your Results
Orig. Gravity:	1.065	
Final Gravity:	1.014	
Est. % ABV:	6.7%	
Efficiency ³ :	67.8%	
IBUs:	42.7	

BJCP Style Guidelines: Hazy IPA (21c)

Original Gravity: 1.060 - 1.085 SG

Final Gravity: 1.010 - 1.015 SG

<u>Bitterness:</u> 25 – 60 IBUs

<u>ABV:</u> 6 - 9%

Overall Impression: An American IPA with intense fruit flavors and aromas, a soft body, and smooth mouthfeel, and often opaque with substantial haze. Less perceived bitterness than traditional IPAs but always massively hop forward. This emphasis on late hopping, especially dry hopping, with hops with tropical fruit qualities lends the specific 'juicy' character for which this style is known.



Tricks of the Trade:

Notes:

The simplest whirlpool method is to stir the contents of the kettle with a spoon until a circular current is achieved. Avoid splashing the wort to prevent hot side aeration. After 10-30 minutes resting, all sediment should settle to the bottom-center of your pot allowing you to rack into your fermentor either by using an auto siphon or an attached ball valve.

¹AA (ALPHA ACID): This is the measure of hops' potential bitterness. Be aware when substituting hops with a higher AA% for your "60 min" hop addition, you will increase the bitterness of your beer. "Flame Out" and "Dry Hop" additions will add hoppy aroma but will contribute little bitterness to your beer. Substituting different hops for these later additions will alter the flavor of your beer, but not the level of bitterness.

²TARGET STATISTICS: These targets were calculated using BeerSmith™ software and are based on the brewing method outlined on the back of this page.

³EFFICIENCY: This is the percent of sugar you expect to extract compared to the total amount of sugar available in your grain. Home brewers' efficiency can range between 65% to 75% depending on equipment and methods used. We use 70% here as an average, but your results may vary.

QUICK BREWING INSTRUCTIONS

- 1.) Measure out your water. If you're using city water, it's best to run it slowly (about 1 gal/min) through a carbon filter while you're measuring.
- 2.) Heat water up to 2-5F more than your strike temperature to compensate for temperature loss while transferring to the mash tun. To minimize temperature loss, try warming up your mash tun by filling it with hot water and leaving it sealed for a few minutes before transferring.
- 3.) Slowly add your grain, constantly stirring to maximize exposure.
- Check that your temperature is on target and seal your mash tun. Once completely stirred in, your mash should have roughly the consistency of watery oatmeal.

Temperature corrections: always aim a couple of degrees higher than your target (but always lower than 168F). It's much easier to bring your temperature down a few degrees by stirring in small handfuls of ice (2 cubes is approximately -1F) than having to bring it up by adding boiling hot water a quart at a time.

Sparge Targets:

Mash Targets:

Volume: 4.51 gal

Strike Temp: 167F

Mash Temp: 152F

Duration: 60min

Don't forget to

start heating

None sparge

water!

Volume: 4.13 gal *Temp:* 168F

Boil Targets:

Volume: 6.66 gal Duration: 75 min

- 1.) Heat up your sparge water to 2-5F higher than desired sparge temperature. Then, transfer the water to the hot liquor tank (HLT) and carefully place your HLT in position above the mash tun.
- 2.) Position your kettle below the mash tun to prepare for the lauter.

SPARGE

LAUTER &

- 3.) Recirculate your mash. Partially open the valve on your mash tun so that a moderate stream of sweet wort comes out. Use 2 pitchers or large measuring cups to catch this stream; you will notice a lot of small particles floating in the wort for the first couple minutes. As each pitcher fills, replace it with the empty and gently pour the full pitcher back into the mash tun. Continue doing this until you your wort is free of particulates.
- to begin sparge. Adjust flow rates out of your mash tun and HLT to maintain 1 inch or so of water above the grain bed. Continue until you reach your target boil volume.

4.) Begin lautering into the kettle. Set up sparge arm above grain bed and open valve on HLT partway

- 1.) Bring your wort to a boil. Watch for boil overs! Once you achieve a stable, rolling boil, slowly add your first hop addition and start your timer for 60 minutes (counting down). Add all subsequent boil additions at their appropriate times.
- 2.) Sanitize any equipment that will come into contact with your wort after the boil: airlock, stopper, wine thief, aeration stone, etc.
- 3.) Add your wort chiller to the pot near the end of the boil. You want it to spend a couple minutes at boiling temperatures to sanitize it. Be sure to connect the hoses before putting it into your pot.
- 4.) Once you're finished boiling, add your whirlpool hops and allow to steep for 30 min. Whirlpool hop utilization can be increased by stirring for 15 min and then resting for the last 15 min.
- 5.) Start your cooldown by turning on the hose connected to your wort chiller to a slow rate of flow. The water coming out should be steaming hot, so be sure the outflow hose is directed somewhere safe.
 - Remember that you can increase the effectiveness of the wort chiller by agitating the wort in the pot or connecting another coil and submerging it in ice water to act as a pre-chiller.
- 6.) Use a sanitized metal spoon to rapidly stir your cooled wort to create a whirlpool. The hop sediment and other break material will be sucked to the center of the pot, and if you allow it to settle for 10-15 min, it will sink to the bottom. This allows you to rack off the clear wort, leaving the trub behind.
- 7.) Once cooled to fermentation temperature, rack into sanitized fermentor.
- 1.) Take a sample of your wort and use your hydrometer to measure your original gravity.
- Oxygenate your wort by shaking the carboy for 5 min or, even better, spraying pure O₂ for 30 seconds. The suggested yeast for this recipe loves oxygen.
- 3.) Sanitize the exterior of the yeast package and use sanitized scissors to open.
- 4.) Add your yeast to your fermentor. Fill your airlock with sanitizer and fix in place with the stopper.

1.) To add extra hop aroma to this recipe by dry-hopping, add the appropriate hops 24 hours after pitching your yeast, then your "Day 7" addition a week later.

- Remove airlock, add your dry hop addition to the fermentor (no need to sanitize the hops), reinstall airlock.
- 3.) Wait 6 days before packaging.

BOIL ADDITIONS

60 MIN

• 0.7 oz Pacifica

15 MIN

• 1 lb hibiscus

10 MIN

• 0.7 oz Nectaron • 0.7 oz Pacifica 0.7 oz Rakau

5 MIN (Whirlpool)

- 0.7 oz Nectaron • 0.7 oz Pacifica
- 0.7 oz Rakau

PITCH

- WLP 008 Fast Coast Ale • WLP067 Coastal Haze Ale Yeast Blend
- Ferment between 68-72F

DRY HOP Day 1

- 0.7 oz Pacifica • 0.7 oz Nectaron
- 0.7 oz Rakau

DRY HOP Day 7

• 0.7 oz Nectaron • 0.7 oz Rakau