



# **Tropical Mist Citrus Blonde Ale**

#### **Fermentables**

- 6 lb Admiral Maltings (US) Pilsner
- 1 lb Flaked Oats
- 1 lb Organic Unmalted Wheat
- 0.25 lb (4 oz) Acidulated malt

#### **Hop Additions**

• <u>90 min:</u> 0.25 oz CTZ (15.5% AA)

#### Yeast

 WLP 066: London Fog Ale Yeast Ideal fermentation temperature: 67F until nearly finished, then raise to 72F

### **Additives**

- 1 lb rinsed and macerated (no larger than ½" chunks) organic Valencia Oranges
- Yeast Nutrient: ½ tsp White Labs (½ tsp/gal Biotin)

| Target Statistics <sup>2</sup> |       | Your Results |
|--------------------------------|-------|--------------|
| Orig. Gravity:                 | 1.044 |              |
| Final Gravity:                 | 1.006 |              |
| Est. % ABV:                    | 5%    |              |
| Efficiency <sup>3</sup> :      | 72%   |              |
| IBUs:                          | 15    |              |

## BJCP Style Guidelines: Blonde Ale (18A)

Original Gravity: 1.038 – 1.054 SG

Final Gravity: 1.008 - 1.013 SG

Bitterness: 15 - 28 IBUs

<u>ABV:</u> 3.8 -5.2%

Overall Impression: Easy-drinking, approachable, malt-oriented American craft beer, often with interesting fruit, hop or character malt notes. Well-balanced and clean, a refreshing pint without aggressive flavors.



#### **Notes:**

<sup>&</sup>lt;sup>1</sup>AA (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.

<sup>&</sup>lt;sup>2</sup>Target Statistics: These targets were calculated using BeerSmith™ software and are based on the brewing method outlined on the back of this page.

<sup>&</sup>lt;sup>3</sup>Efficiency: 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. Mash Targets: 2.) Heat water up to 2-5F more than your strike temperature to compensate for temperature loss Volume: 2.6 gal while transferring to the mash tun. To minimize temperature loss, try warming up your mash tun Strike Temp: 162F by filling it with hot water and leaving it sealed for a few minutes before transferring. Mash Temp: 150F 3.) Slowly add your grain, constantly stirring to maximize exposure. Duration: 60min 4.) Check that your temperature is on target and seal your mash tun. Once completely stirred in, your Don't forget to mash should have roughly the consistency of watery oatmeal. start heating Temperature corrections: always aim a couple of degrees higher than your target (but always lower None sparge than 168F). It's much easier to bring your temperature down a few degrees by stirring in small water! handfuls of ice (2 cubes is approximately -1F) than having to bring it up by adding boiling hot water a 1.) Heat up your sparge water to 2-5F higher than desired sparge temperature. Then, transfer the **Sparge Targets:** water to the hot liquor tank (HLT) and carefully place your HLT in position above the mash tun. Lauter & Sparge 2.) Position your kettle below the mash tun to prepare for the lauter. Volume: 5.5 gal 3.) Recirculate your mash. Partially open the valve on your mash tun so that a moderate stream of *Temp:* 168F 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 **Boil Targets:** this until you your wort is free of particulates. 4.) Begin lautering into the kettle. Set up sparge arm above grain bed and open valve on HLT partway Volume: 6.8 gal to begin sparge. Adjust flow rates out of your mash tun and HLT to maintain 1 inch or so of water Duration: 90 min above the grain bed. Continue until you reach your target boil volume. 1.) Bring your wort to a boil. Watch for boil overs! Once you achieve a stable, rolling boil, slowly add Mash Addition your first hop addition and start your timer for 90 minutes (counting down). Add all subsequent **90 MIN** boil additions at their appropriate times. 0.25 oz CTZ 2.) Sanitize any equipment that will come into contact with your wort after the boil: airlock, stopper, wine thief, aeration stone, etc. 45 MIN 3.) Add your wort chiller to the pot near the end of the boil. You want it to spend a couple minutes at Watching wort boil is boiling temperatures to sanitize it. Be sure to connect the hoses before putting it into your pot. dull work. Have a 4.) Once you're finished boiling, start your cooldown by turning on the hose connected to your wort homebrew! 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. **30 MIN** 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. **15 MIN** 5.) Use a sanitized metal spoon to rapidly stir your cooled wort to create a whirlpool. The hop Clarifier & Nutrient 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. 0 MIN 6.) Once cooled to fermentation temperature, whirlpooled, and settled out, rack into sanitized fermentor. 1.) Take a sample of your wort and use your hydrometer to measure your original gravity. **PITCH** 

2.) Oxygenate your wort by shaking the carboy for 5 min or spraying pure O₂ for 30 seconds.

- 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.

- 5.) Once target gravity is reached and no Diacetyl is detected, cold crash to 35F
- 6.) Add Valencia orange to beer.
- 7.) After two days or desired clarity is reached, rack and carbonate.

• WLP001 California Ale

Ferment temp: 67F until nearly done, then increase to 72F