



Seven Guns IPA



Dive through that plate-glass window, tuck, roll, and riddle your tongue in a humulone-fueled blaze of hop glory! Have no fear, for this commando of an IPA will drop the hammer on your senses with seven different malts and seven different hops in seven hop additions to blast off 77 IBUs and 7.7% alcohol. Yeah, you heard that right, and Lite-Beer-Boy over there will be quivering in his britches and shooting blanks before this trigger happy brute of an IPA. "Oh please, oh please—spare me!" he'll tremble from under the bed. "I can't handle this full mouth feel of malt and caramel and bitter resinous hops that rise like gunsmoke and fill my nose with citrus and grassy-floral-piney aromas! I can't take it!" Well pantywaiste, pull up those training pants and hide beneath that fuzzy bunny blanket, because we hop warriors have awesome hop taste dead set in the crosshairs!

Just the Facts, Ma'am:

BJCP Style: 14B. American IPA
Original Specific Gravity: 1.070 - 1.074
Final Specific Gravity: 1.012 - 1.016
Alcohol by Volume: 7.7%
Color: 9 SRM (A Pistol-Whipped Shade of Amber!)
International Bittering Units: 77
Batch Size: 5 gallons
Time to Awesome Drinkability: 7 Weeks

Your recipe kit includes the freshest malt, hops and yeast. If you are not going to brew your recipe immediately, it is important to refrigerate your yeast and hops. If your recipe includes bags of malt syrup, these should be refrigerated too. Bags of dried malt do not require refrigeration. Also, all grains are best stored at dry room temperature.

Ingredients:

Fermentables:

Malt Bag 1

4.4 lbs. Light Malt Extract Syrup

Malt Bag 2

2.8 lbs. Munich Malt Extract Syrup

1.1 lbs. Wheat Malt Extract Syrup

1 lb Corn Sugar

Grains & Wort Additives:

6 oz 10L Crystal Malt (Crushed)

4 oz Biscuit Malt (Crushed)

3 oz Amber Malt (Crushed)

3 oz Aromatic Malt (Crushed)

Hop Schedule:

Each addition uses an equal amount of the following hops: Azacca, Cascade, Centennial, Chinook, Citra, Columbus, and Falconer's Flight

Addition 1: 1½ oz of each hop for 65 minutes

Addition 2: 2½ oz of each hop for 52 minutes

Addition 3: 3½ oz of each hop for 39 minutes

Addition 4: 4½ oz of each hop for 26 minutes

Addition 5: 5½ oz of each hop for 13 minutes

Addition 6: 1½ oz of each for the after-the-boil steep (10 minutes)

Addition 7: ¼ oz of each hop for dry hopping

Yeast:

Liquid Yeast: Wyeast 1056 American Ale Yeast

Wyeast 1272 American Ale II Yeast

Or

Dry Yeast: Safale US-05 Ale Yeast **OR** BRY-97 American West Coast Ale Yeast

Brewing Supplies & Flavors:

1 Muslin Bag

5 oz Priming Sugar

Pre-Brew Day Checklist:

If you are using liquid yeast, it is always desirable to make a yeast starter when fermenting higher alcohol brews. Making a yeast starter allows you to propagate to a greater (and necessary) cell count to ensure complete fermentation. For more information about yeast starters, please visit the 'Frequently Asked Questions' section on boomchugalug.com.

Brew Day Checklist:

On brew day, you will require the following equipment:

- Brew Pot - A 5 gallon brew pot is ideal, but never use a pot that is less than 4 gallons.
- Long-handled spoon or paddle for stirring the boiling wort.
- Primary Fermenter - A 6½ gallon (or greater) food-grade plastic bucket with lid, or a 6½ glass carboy.
- Airlock
- Stopper (if using a carboy)
- Funnel (if using a carboy)
- Hydrometer (Optional, if you want to measure your specific gravity)
- Sanitizing Solution
- Scissors

On the day you rack the beer into the secondary fermenter, you will require the following equipment:

- 5 gallon carboy
- Airlock
- Stopper
- Siphon Setup

The Magical Procedure:

Liquid Yeast Activation Before Brewing:

If you are fermenting with liquid yeast, you must activate the yeast packet before it is ready to pitch. Always check the manufacturing date stamped on the yeast packet. Yeast that is less than 1 month old may be activated on brew day. A yeast that is more than 2 months old may require additional preparation time. Always make sure your yeast has been properly activated before using. For more information about yeast starters, please visit the 'Frequently Asked Questions' section on boomchugalug.com.

Time to Brew!

Total Boiling Time: 65 Minutes. While your wort is boiling, you should sanitize your fermentation equipment, such as your primary fermenter, airlock, scissors, stopper, etc. After you have sanitized your fermenter, fill it with 2 gallons of cold water, into which you will later add your hot boiled wort.

Hop Note: There are seven scheduled hop additions for this recipe. For ease of use, we recommend making piles of hops for each addition ahead of time



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Flip the sheet to continue the magic. Also, this is a good time to pour a cold one! →

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and labeling each pile with its time for addition. When creating the hop piles, eyeball-estimation is adequate for brewing this recipe.

1. Place the crushed grains in a muslin bag and add to 2¼ gallons of water.
2. Heat water until the temperature is between 150 and 170 degrees. Steep the grains between this temperature range for 30 minutes.
3. Remove and discard the grains. Add Malt Bag 1 and stir until dissolved to prevent scorching. Bring this mixture to a boil.
4. When boiling begins again, follow the hop schedule listed above.
5. With 5 minutes remaining in the 65 minute boil, pause the brew timer and remove the kettle from the heat. Add malt bag 2 and 1 lb corn sugar. Stir until dissolved and bring the wort back to a boil. When boiling begins again, boil the wort for the last 5 minutes.
6. At the end of the 65 minute boil, remove kettle from the heat. Add the hops listed above for the after-the-boil addition (Hop Addition 6). Place cover over kettle and steep for 10 minutes.

Note: During this steep, it is important to cover the kettle to prevent loss of the delicate and volatile hop oils.

Chill out, Man! (Chill the Wort)

1. At the end of the 65 minute boil, cool the wort to approximately 75°F as quickly as possible. With extract brewing, the easiest way to quick-chill the wort is to place your brew pot into a sink full of ice. For more information about cooling your wort quickly, please see 'Fast Wort Chilling' in the 'Frequently Asked Questions' section on our website.
2. Add your chilled wort to the 2 gallons of water already in your fermenter.
3. Add any extra water needed to bring the total volume in your fermenter to 5 gallons.
4. If you would like to measure the specific gravity, now is a good time. To get an accurate reading, it is important to make sure all of the heavy wort extract you added to the fermenter has been completely mixed in the water.

Pitch the Yeast! (Into the Wort, But Not Out the Window!)

1. When your wort has cooled to 75°F (70° - 78°F is okay), aerate the wort before adding the yeast. Simply close the fermenter and swirl around to mix in oxygen. If you are swirling a carboy, it is helpful to place the carboy on a thick, folded blanket to avoid damaging the vessel.
2. After aerating, pitch (add) the yeast. Use the sanitized scissors to cut open the yeast packet. If you are using liquid yeast, sanitize the pack before opening. If you are using dried yeast, simply sprinkle the yeast over the wort. No mixing is necessary with dried yeast.
3. Close the fermenter, attach the airlock, and keep the fermenter warm (between 70° - 78°F) until you see fermentation beginning, such as the airlock bubbling once every 30 seconds. Wrapping the fermenter with a blanket is an easy way to keep the fermenter warm.

Primary Fermentation:

There are several ways to know when fermentation has begun. First, you will begin to see bubbling through the airlock. If you are using a carboy, then you will usually see the yeast begin to form a layer over the beer's surface.

1. Once fermentation begins, move the fermenter to a room with the proper temperature. The ideal temperature to ferment this beer is between 60° - 72°F. Do not let the temperature drop below 60°F. If you do,

fermentation may stop too soon. That's a bummer, man.

2. Active fermentation may take as long as two weeks after pitching the yeast, although fermentation may finish in 3 to 5 days.

Secondary Fermentation:

After about one week, fermentation will begin to slow. This is a good time to siphon the beer into the 5 gallon glass carboy.

1. Dry Hop: add the final ¼ oz of all seven hops when racking into secondary carboy.
2. Allow the beer to rest in the secondary for 1 - 2 weeks before bottling.

Time to Bottle!

There are several ways to tell when fermentation is complete (besides your drooling). If you correctly pitched the yeast and fermentation quickly began, and if the beer fermented vigorously and the fermenter was always within the correct temperature range (60° - 72°F), then fermentation should finish in two weeks or less. You should see virtually no activity in the airlock. For example, if the airlock only bubbles once a minute or longer, then fermentation should be complete. If you are unsure if fermentation has ended, you may use your hydrometer to measure the specific gravity. If your specific gravity does not change after two or more days, then fermentation is complete and you are ready to bottle!

1. Before bottling, sanitize your bottling bucket, auto siphon (or racking cane), hose, bottle filler, caps and bottles. Glass bottles may be sanitized one day in advance by baking them in the oven. More information about baking your bottles can be found under 'Baking Beer Bottles' in the 'Frequently Asked Questions' section on our website.
2. Dissolve 5 ounces (weight) or 3/4 cup of priming sugar (dextrose / corn sugar) in 16 oz water. Boil for 5 minutes.
3. Pour the sugar solution into the bottling bucket, and siphon in the beer. Siphon carefully, trying to minimize splashing and aeration of the beer. Also when siphoning, be sure to leave behind the sediment at the bottom of the fermenter. When done siphoning, gently stir the beer in the bucket to make sure all of the sugar solution has been dissolved. Your racking cane makes a convenient stirring wand.
4. Elevate your bottling bucket, and attach your siphon hose and bottle filler to the bucket's spigot. Fill the bottles to about 1 inch from the top, and cap each bottle.

Carbonation and Maturation!

Now that your bottles are primed and capped, the remaining yeast will undergo a second fermentation in the bottle whereby they eat the priming sugar and produce carbon dioxide, which is trapped in the bottle to produce the carbonation. While your beer is carbonating, it will also be clearing and maturing - the young, rough undeveloped flavors develop into your magical beverage! Your wondrous elixir reaches awesome drinkability about 7 weeks from the day you began the brew, but don't be surprised if it keeps getting better as time goes on.

1. Place your bottles in a dark place at room temperature (62°F - 75°F), and wait at least two weeks for the beer to carbonate. It is important to keep the beer between 62°F - 75°F for carbonation to develop. If the beer cools below 62°F, it may not properly carbonate. In brewing, this is officially known as the buzzkill. Keep it warm, let it carbonate!
2. Once your beer is carbonated, you may store it in a cool place. Unfiltered home-brew is unfiltered, and unfiltered beers will improve with time. If your young beer is rough or yeasty, these flavors will mellow over time. Cheers!

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