



# Calistoga Springs Steam Beer



One mile below the village of Calistoga, California swells a chamber of magma, where the water seeps down through the porous rock and rises up in steamy surges, warming the natural mud baths in the spa where you now relax neck-deep in that soothing ooze. And as the beady perspiration gathers about your brow, you reach for a pint of this remarkably refreshing, reddish-brown brew, which offers an admirable balance between the backdrop of aromatic and bready malts and the amenable expression of hops, with their ticklish bitterness and rustic, minty flavors. So go ahead, sink deeper into that massaging mud and admire the steamy tendrils' dance, for this volcanic spa soothes your body, and this ambrosial steam beer soothes your soul.

## Just the Facts, Ma'am:

BJCP Style: 7B. California Common Beer  
Original Specific Gravity: 1.052 - 1.056  
Final Specific Gravity: 1.012 - 1.016  
Alcohol by Volume: 5.2%  
Color: 19 SRM (Reddish-Brown, Like a Volcanic Mud Bath!)  
International Bittering Units: 37  
Time to Awesome Drinkability: 6 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:

4.4 lbs Munich Malt Extract Syrup  
2.2 lbs Light Malt Extract Syrup

### Grains & Wort Additives:

5 oz Aromatic Malt (Crushed)  
4 oz Biscuit Malt (Crushed)  
3 oz Melanoidin Malt (Crushed)  
4 oz De-Husked Carafa II Malt (Crushed)  
2 oz Pale Chocolate Malt (Crushed)

### Hops:

1 oz Summit Hops Brewer Hops (Bittering, 60 Minutes)  
1 oz Northern Brewer Hops (Flavor & Aroma, After-the-Boil Steep)

### Yeast:

Liquid Yeast: Wyeast 2112 California Lager Yeast  
Or

Dry Yeast: Mangrove Jack's M54 California Lager Yeast

### Brewing Supplies & Flavors:

1 Muslin Bag  
5 oz Priming Sugar

## 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

## 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. Please see [www.boomchugalug.com/wyeast.htm](http://www.boomchugalug.com/wyeast.htm) for complete liquid yeast activation instructions.

### Time to Brew!

Total Boiling Time: 60 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.

Note: Calistoga Springs Steam Beer achieves its distinct caramel character not from the use of crystal (caramel) malts, but by boiling and caramelizing a separate portion of the wort. This recipe achieves that same caramelization in step 4.

1. Place the crushed grains in the muslin bag and add to 2½ gallons of water. Measure the water volume carefully to ensure you extract the proper amount of hop bitterness during the boil.
2. Heat water until the temperature is between 150° and 170°F. Steep the grains between this temperature range for 30 minutes. Steeping longer than 30 minutes does not hurt.
3. Remove and discard the grains, and bring this mixture to a boil. Remove the pot from the heat and add the malt extract. To prevent scorching, stir until all of the malt is dissolved. Then bring this mixture to a boil. Watch for boilovers!
4. Caramelizing the Wort:  
Note: Step 4 requires at least 15 minutes. Consequently, you may proceed to Step 5 during this time.
  - a. Using a glass oven-safe measuring cup with handle (standard kitchen equipment), carefully remove 24 fl. oz of the pre-boiled wort and transfer to a saucepan.
  - b. Boil this mixture until it becomes thick and syrupy. This may take 15 minutes or longer. During this time, the wort will darken as the sugars



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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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Page 2....Wow, this is good stuff. I wish there could be more!

caramelize.

**Caution:** High temperatures are required to caramelize the wort. Thus, stir constantly to avoid scorching. Pay close attention, since thick, concentrated wort will quickly boil over.

- c. When the wort has reached a syrupy consistency, mix in two cups of hot water. Return this caramelized wort back to the main boil.
5. When boiling begins again, add 1 oz of Summit hops. Boil these hops for the entire 60 minutes.
6. At the end of the 60 minute boil, remove kettle from the heat. Add 1 oz of Northern Brewer hops. 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 60 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 complete instructions using this method, please see [www.boomchugalug.com/cooling.htm](http://www.boomchugalug.com/cooling.htm).
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 approximately 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.
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.

## 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 58° - 68°F. Do not let the temperature drop below 58°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.
3. If you choose to siphon the beer to secondary carboy for additional clearing and maturation, do so when fermentation begins to slow. If you will not be using a secondary, allow fermentation to complete in the primary fermenter.

## 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 (58° - 68°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. Instructions for bottle baking may be found at [www.boomchugalug.com/baking\\_bottles.htm](http://www.boomchugalug.com/baking_bottles.htm)
2. Dissolve 5 ounces (by weight) or 3/4 cup of corn sugar in 16 oz of water. Boil for 5 minutes. Corn sugar is sometimes called dextrose or priming sugar.
3. Place your fermenter on the counter and your bottling bucket on the floor. Pour the sugar solution into the bottling bucket, and siphon the beer from the fermenter into the bottling bucket. 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. There's no problem if you should siphon up a little sediment. When you're done siphoning, gently stir the beer in the bottling bucket to make sure all of the sugar solution has been dissolved. Your racking cane makes a convenient stirring wand.
4. Place your bottling bucket on the counter, 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 6 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 that you 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. Get your bottle opener handy dude (or dudette), because it's time to drink a beer! When pouring the beer into your glass, be sure to leave the bottle's sediment behind. That sediment is the yeast which carbonated your beer, and if you pour it into your glass, you'll make the beer cloudy and taste yeasty.
3. Once your beer is carbonated, you may store it in a cool place. Keep in mind that home-brewed is unfiltered, and unfiltered beers actually continue to improve with time. If your beer seems rough-around-the-edges or tastes yeasty, these qualities usually morph into a smooth, clean beer over time. Cheers!

