



URBAN <sup>EST</sup> 1981 WINERY  
& CRAFT BREWING SUPPLIES

# GET TO DA CHOPPA!

*Single Hop Pale Ale – 5.5 Gal - OG 1.055 – FG 1.013 – ABV 5.5% - IBU 41 – SRM 6*

*Ah yes, Predator – easily one of Schwarzenegger's best movies. What better way to commemorate one of his most famous lines than by making a single hopped Pale Ale using only Chinook\* hops.*

*Get to da Choppa! Is a hop forward pale ale. It has big pine and floral aromas balanced by the malt backbone of the beer. The kind of beer that could be had anytime of the year. So, grab a seat on the couch and re-watch Predator for the 100<sup>th</sup> time, but this time make sure you've got a cold glass of Choppa in hand.*

*\*Chinook is a tandem rotor heavy lift helicopter widely used by militaries across the world (including Canada) It is also the name of a delicious hop.*

## Ingredients

### Grains

	Amount (lbs)
Canadian 2 Row	9.5
Crystal Light	1
Carafoam	0.5

### Hops

	Amount (oz)	Boil Schedule (minutes)
Chinook (14% A.A.)	0.5	30
Chinook (14% A.A.)	0.5	15
Chinook (14% A.A.)	0.5	10
Chinook (14% A.A.)	1.5	3
Chinook (14% A.A.)	2.0	

**DRY HOP – 4 DAYS**

### Yeast

US-05	11.5g
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### Extras

Irish Moss	1 tsp for last 15 minutes of boil	
Dry Malt Extract	150g at bottling for priming	Or Dextrose

### Important Tips on Brewing

- Be extra cautious when it comes to cleaning! Once you have stopped boiling your wort everything that gets in contact with the beer MUST be sanitary.
- The temperature of your mash is ABSOLUTELY CRITICAL. Not being in the 150-155f range can drastically affect your beer. Make sure you correct the temperature once all of the grain has been added to the mash.
- Always let your beer ferment for 10 days! Do not disturb it, do not open the lid. It is absolutely natural for the airlock to stop bubbling after a few days, it is still fermenting though.
- Before bottling, make sure you use a priming calculator (many can be found online) to verify the amount of sugar that needs to be added.

[Step by step Instructions on the other side →→→](#)

# Instructions

We're going to be producing this beer with the Brew-in-a-Bag (BIAB) method. It is an easy, and cost effective way to make great all grain beer.

## **Mashing** -> converting the grain into a fermentable liquid.

- 1) Bring 6 gallons of water in your brew pot to 168°F. This is our **strike temperature**. Turn off the heat to the pot.
- 2) Wrap the muslin/nylon bag around the brew pot and slowly pour all the milled grains into the bag. Stir them in while adding to prevent clumps. The addition of grain should drop the temperature down to 150-155°F.
- 3) We want to **mash the grain at 154°F for 60 minutes**. It is very important to hold the temperature at 154°F. If the temperature rises above 155°F it hurts the fermentation, or if it dips below 150°F it can lead to a very thin tasting beer.
  - a. **The first 15-30 minutes are essential for the success of your brew. The temperature HAS TO BE IN THE RANGE OF 150-155°F.** Sometimes adding the grain to the strike water does not lower the temperature enough, in this case add a little bit of cold water to bring the temperature down. Cover the pot with your lid and let it sit.
  - b. Most brew pots will be able to maintain 150°F without adding heat for 30 minutes, we recommend checking the temperature every 15 minutes, and if it drops add more heat to bring it up.
- 4) After 60 minutes, bring the temperature of the mashing grain up to 170°F and hold for 10 minutes. This is our **mash out**.
- 5) Time to remove the grain. Lift the bag full of grain out of the brew pot. Let the liquid in the bag dribble into your wort. Once that is done, put the bag inside of a brewing pail, or another empty pot. There will be about 4 gallons of wort in the brewpot, we need to get it to 6 gallons before we can begin the next stage.
- 6) Run warm water through the grains in the bag, aim for 170°F – let it run through the grains and add to the brewpot. Add until you reach 6 gallons.
  - a. **PSA:** It is natural to think that the grains need to be squeezed to get all of the liquid out of them, **DO NOT DO THIS.** Aggressively squeezing the grains will lead to tannin extraction and a doughy taste in your beer. Lightly pressing the bag is fine, but do not try to squeeze every last drop out.

## **Boiling** -> Hop addition time

- 1) Bring 6 gallons of your wort to a rolling boil, and let it boil for 5 minutes, this is called the hot break.
- 2) Set a timer for 60 minutes, with 30 minutes left in the boil it is time for the first hop addition. Add 0.5oz of Chinook.
- 3) With 15 minutes left add another 0.5oz of Chinook, 1 tsp of Irish Moss, and the immersion wort chiller if you are using one.
- 4) then with 10 minutes left add another 0.5oz of Chinook, and then with 3 minutes left add 1.5oz of Chinook.
- 5) When your timer goes off, take the pot off of heat, and try to get the temperature down to 72°F as quick as possible.
  - a. We love using a wort chiller for this, it can get the beer down to temperature in 20-30 minutes. Otherwise, you can immerse the brew pot in an ice bath, or wait it out. The longer it takes, the greater the risk of infection

## **Fermentation** -> Turning the wort into beer

- 1) After the boil is done it is time to be extra careful in regards to sanitation. We recommend using a no-rinse sanitizer called Starsan. Mix ¼ tsp of it with water in a 500ml spray bottle. Before we touch any part of the beer we spray it with Starsan.
- 2) Transfer the cooled wort into your fermenting pail or carboy. Run it through a strainer to catch any hop or grain residue.
  - a. It is also **an important time to take a hydrometer reading**. It should be around 1.055 give or take a few points.
- 3) Your choice of fermentation vessel is important. During primary fermentation, it will bubble up quite a bit, you want to be sure there is airspace for it to work away. Otherwise the pressure of it will push out the airlock.
- 4) **Make sure the wort has been cooled to at least 25c!!!** Adding yeast at a higher temperature will likely kill it.
- 5) Once the beer is in the fermenter. Open the US-05 yeast and pour it in. Put the bung and airlock in the hole (make sure there is water filled up to the line in the airlock). If using a pail, make sure the lid is sealed tight. Put the pail in a room that is 20°C.
- 6) After 10 days have passed, take a hydrometer reading. It should be somewhere between 1.010-1.015
- 7) Rack the beer into a sanitized 5 gallon carboy, add the 2oz of Chinook hops as the **Dry Hop**.
- 8) Place the beer somewhere cool if possible. We like to chill it around 1°C. A cooler temperature will help clarify the beer. Let the beer sit for 4 days. Do not let the hops sit in the beer any longer than that!

## **Bottling** -> We're getting close to Beer Time now.

- 1) It's now been 14 days since we first starting brewing. Rack the now fermented and clarified beer into your bucket.
- 2) At the same time, mix the 150g of dry malt extract (you can use dextrose too) with 300ml of boiling water and add to the beer. Stir it in VERY gently. Be sure to double check the amount of priming sugar necessary by using a priming calculator first.
- 3) Rack the beer into your bottles or growlers. Then, let them sit for 2 weeks at room temperature. Chill and enjoy!