



IBU's:	OG:	FG:
40	1.084-	1.028-
	1.086	1.030
ABV:	Ferm	
7.3%-	Temp:	
7.8%	60°-72°F	

<u>Glossary</u>

OG – Original Gravity FG – Final Gravity DME – Dried Malt Extract LME – Liquid Malt Extract ABV – Alcohol by Volume IBU – International Bittering Units

Included Equipment

Muslin Hop Bag

Bag Muslin Grain Bag

Recommended Brew Day Equipment

4 Gal. Brew Pot	6.5 Gal. Fermenter
Hydrometer	Thermometer
Long Spoon or Paddle	Cleanser
Sanitizer	Airlock

Recommended Bottling Day Equipment

Bottling Bucket	12 oz. Bottles (appx. 53)
Siphon Setup	Bottle Brush
Bottle Filling Wa	nd Bottle Caps
Capper	Sanitizer

ABV% Calculator

(OG - FG) x 131.25 = ABV% (_____* - ____**) x 131.25 = ____% *OG from Step #8 **FG from Step #10

INGREDIENTS

FERMENTABLES

7.0 lbs Light LME

0.5 lbs Brewer's Malt (Packaged with the specialty grains)

SPECIALTY GRAINS

1.50 lbs Carapils

1. 50 lbs Flaked Oats

1.50 lbs Flaked Barley

OTHER INGREDIENTS

1 lb Lactose

3 tbsp Double Vanilla Extract

0.5 lbs Doubleshot Coffee Beans

<u>HOPS</u>

1.00 oz Warrior (Bittering)

FININGS

1 tsp. Irish moss

YEAST

Imperial A07 Flagship (Recommended)

Recommended Procedures

BREW DAY (Date ____ / ____)

1. <u>READ</u>: Read all the recommended procedures before you begin.

2. <u>ACTIVATE YEAST</u>: If using Wyeast liquid yeast, activate the yeast at least 5 hours prior to pitching.

3. <u>SANITIZE</u>: Thoroughly clean and sanitize ALL brewing equipment and utensils that will come in contact with any ingredients, wort or beer.

4. <u>STEEP GRAINS</u>: Place enough water into a pot to cover specialty grains. Heat to 156°. Place specialty grains into grain bag and tie a loose knot at the top of the bag¹ and place in water. Steep for 30 minutes. DO NOT BOIL THE GRAINS. Remove bag and allow it to drain into the pot (do not squeeze). Sparge (slowly run water through) the grains with 2 gallons of 168° water. Discard the grain filled bag. Your water is now wort.

5. <u>START BOIL</u>: If needed, add enough water to bring to 3 gallons. Bring your wort to a gentle, rolling boil. Add 1/4 of the malt extract². Continuously stir the extract into the wort as it returns to a gentle, rolling boil³.

6. <u>ADD HOPS AND INGREDIENTS</u>⁴: Place hops the provided hop bag and clip to the side of the pot. Be careful not to let the wort boil over the pot. Using the provided <u>BREW DAY SCHEDULE</u>, note the time the bittering hops were added. Continue the gentle, rolling boil.

BIAB Instructions

Mash 13.75 lbs Brewer's Malt with specialty grains in 31.5 quarts of water to get a single infusion mash of 150° F for 60 minutes. Remove grains and drain. Bring to boil and follow the <u>BREW DAY SCHEDULE</u>.

All Grain Instructions

Mash 10.25 lbs Brewer's Malt with specialty grains in 18.5 quarts of water to get a single infusion mash of 156° F for 60 minutes. Sparge with hot water of 170° F to get 6 gallons of wort. Bring to boil and follow the <u>BREW</u> <u>DAY SCHEDULE</u>.

BREW DAY SCHEDULE

- 1. Add bittering hops ____: ___ (time)
- 2. Boil 45 minutes
- 3. Add Irish moss ____: (time)
- 4. Boil 5 minutes
- 5. Add lactose and remaining malt extract³ _____ (time)
- 6. Boil 10 minutes
- 7. Terminate boil ____: ___ (time)

Total Boil Time: 60 Minutes Total Steep Time: 40 Minutes

Continue to Step #7

7. <u>COOL WORT & TRANSFER</u>: Cool the wort down to approximately 70°F by placing the brew pot in a sink filled with ice water⁵. Pour or siphon wort into a sanitized fermenter. Avoid transferring the heavy sediment (trub) from the brew pot to the fermenter.

8. <u>ADD WATER</u>: Add enough clean water (approx. 64^o - 72^oF) to the fermenter to bring your wort to approximately 5 gallons. Thoroughly stir the water into the wort. Be careful not to add a volume of water that will cause the wort to fall outside of the OG range specified in the BREW STATS⁶. Once you are satisfied your wort is at the proper

Secondary Fermentation and Coffee Beans

A 5 gallon glass or plastic carboy, drilled stopper, airlock and siphon setup are needed to transfer the beer. When the fermentation in the primary slows (5-7 days) transfer the beer into the carboy and allow fermentation to finish. When fermentation is complete (take a gravity reading 3 days apart to confirm beer is finished) take a FG reading with a sanitized hydrometer and record it in your ABV% CALCULATOR.

Place coffee beans in the provided muslin bag and place into the secondary once fermentation is complete. We recommend crushing the coffee with a mallet or hammer. After 3 days taste sample. If the coffee level is satisfactory remove the beans and proceed to bottling. If coffee level is not where you'd like it, continue steeping the beans and check every few days. The beans will stop contributing flavors to the beer after 7 or so days.

volume and within the OG range, record the OG in the ABV% CALCULATOR (bottom right on page 1).

9. <u>PITCH YEAST</u>: If using liquid yeast open package and pour over the top of the wort surface. If using a dry yeast sprinkle the contents of the yeast sachet over top of the entire wort. Firmly secure the lid onto the fermenter. Fill your airlock halfway with water and gently twist the airlock into the grommetted lid. Move fermenter to a dark, warm, temperature stable area (approx. 64^o - 72^oF).

FERMENTATION

10. <u>MONITOR & RECORD</u>: The wort will begin to ferment within 24 hours, and you will notice CO2 releasing (bubbling) out of the airlock. Within 4 - 6 days the bubbling will slow down. Transfer to secondary and follow the <u>Secondary Fermentation and Coffee</u> Beans instructions.

BOTTLING DAY (DATE __ /__ /__)

11. <u>READ</u>: Read all of the recommended procedures before you begin.

12. <u>SANITIZE</u>: Thoroughly clean and sanitize ALL brewing equipment and utensils that will come in contact with any ingredients, wort or beer.

13. <u>PREPARE PRIMING SUGAR</u>: In a small saucepan dissolve priming sugar into 2 cups of boiling water for 5 minutes. Pour this mixture along with the VANILLA into a clean bottling bucket. Carefully siphon beer from the fermenter to a bottling bucket. Avoid transferring any sediment. Stir gently for about a minute.

14. <u>BOTTLE</u>: Using your siphon setup and bottling wand, fill the bottles⁸ to within approximately one inch of the top of the bottle. Use a bottle capper to apply sanitized crown caps.

15. <u>BOTTLE CONDITION</u>: Move the bottles to a dark, warm, temperature-stable area (approx. 64° - 72°F). Leave for 2 weeks to carbonate. Be patient if it takes a little longer.

BREW TIPS

¹The grains should not be compacted inside the bag. Grains should steep loosely allowing the hot water to soak into all of the grain evenly.

²Run LME under hot water to allow the extract to pour easier.

³Pay careful attention that the extract does not accumulate and caramelize on the bottom of your brew pot.

⁴When consumed, hops can cause malignant hyperthermia in dogs, sometimes with fatal results.

⁵To avoid bacteria growth cool as rapidly as possible. Do not add ice directly to the wort. Alternatively, you can use a brewing accessory like a Wort Chiller.

⁶Use a sanitized hydrometer while adding water to monitor the SG.

⁷Consider transferring your beer to a secondary carboy see "Two-Stage (Secondary) Fermentation" see sidebar.

⁸Make sure bottles are thoroughly clean. Use a bottle brush if necessary, to remove stubborn deposits. Bottles should be sanitized prior to filling.