

# DRY IRISH STOUT

Official NORTHERN BREWER Instructional Document

Arguably Ireland's most famous export, dry stout has a loyal following all over the world. Our kit has a pronounced roasty, coffee-like flavor and aroma, imparted by a generous helping of roasted barley. Hop bitterness enhances the dryness, and the medium body makes for a very drinkable dark beer. This is one of the most popular styles among home brewers; after a few pints, you'll understand why.

**O.G.: 1.042 READY: 6 WEEKS**

1-2 weeks primary, 2-4 weeks secondary,  
1-2 weeks bottle conditioning

## KIT INVENTORY:

### MAILLARD MALTS™ SPECIALTY GRAIN

- 1 lbs English Roasted Barley

### MAILLARD MALTS™ EXTRACTS & OTHER FERMENTABLES

- 6 lbs Gold Malt syrup

### HOPTIMUS REX™ PREMIUM HOPS & OTHER FLAVORINGS

- 2 oz Cluster (60 min)

## YEAST

- **DRY YEAST (DEFAULT):** Safale S-04 Ale Yeast. Optimum temp: 64°-75° F
- **LIQUID YEAST OPTION:** Wyeast 1084 Irish Ale Yeast. Apparent attenuation: 71-75%. Flocculation: medium. Optimum temp: 62°-72° F.

## PRIMING SUGAR

- 5 oz Priming Sugar (save for Bottling Day)

These simple instructions are basic brewing procedures for this Northern Brewer extract beer kit; please refer to your starter kit instructions for specific instructions on use of equipment and common procedures such as siphoning, sanitizing, bottling, etc.

For more detailed extract brewing instructions, please visit [www.northernbrewer.com](http://www.northernbrewer.com)

## BEFORE YOU BEGIN ...

### MINIMUM REQUIREMENTS

- Homebrewing starter kit for brewing 5 gallon batches
- Boiling kettle of at least 3.5 gallons capacity
- A 5 gallon glass carboy, with bung and airlock, to use as a secondary fermenter - If you do not have a secondary fermenter you may skip the secondary fermentation and add an additional week to primary fermentation before bottling
- Approximately two cases of either 12 oz or 22 oz pry-off style beer bottles

## UNPACK THE KIT

- Refrigerate the yeast upon arrival
- Locate the Kit Inventory (above) - this is the recipe for your beer, so keep it handy
- Doublecheck the box contents vs. the Kit Inventory
- Contact us immediately if you have any questions or concerns!

## PROCEDURE

### A FEW DAYS BEFORE BREWING DAY

1. Remove the liquid Wyeast pack from the refrigerator, and "smack" as shown on the back of the yeast package. Leave it in a warm place (70-80° F) to incubate until the pack begins to inflate. Allow at least 3 hours for inflation; some packs may take up to several days to show inflation. Do not brew with inactive yeast - we can replace the yeast, but not a batch that fails to ferment properly. If you are using dry yeast, no action is needed.

### ON BREWING DAY

2. Collect and heat 2.5 gallons of water.

3. For mail-order customers grains for extract kits come crushed by default, but if you requested uncrushed grains, crush them now. Pour crushed grain into supplied mesh bag and tie the open end in a knot. Steep for 20 minutes or until water reaches 170°F. Remove bag and discard.

4. Bring to a boil and add the 6 lbs Gold malt syrup. Remove the kettle from the burner and stir in the Gold malt syrup.

5. Return wort to boil. The mixture is now called "wort", the brewer's term for unfermented beer.

- Add 2 oz Cluster hops and boil for 60 minutes.

6. Cool the wort. When the 60-minute boil is finished, cool the wort to approximately 100° F as rapidly as possible. Use a wort chiller, or put the kettle in an ice bath in your sink.

7. Sanitize fermenting equipment and yeast pack. While the wort cools, sanitize the fermenting equipment - fermenter, lid or stopper, fermentation lock, funnel, etc - along with the yeast pack and a pair of scissors.

8. Fill primary fermenter with 2 gallons of cold water, then pour in the cooled wort. Leave any thick sludge in the bottom of the kettle.

9. Add more cold water as needed to bring the volume to 5 gallons.

10. Aerate the wort. Seal the fermenter and rock back and forth to splash for a few minutes, or use an aeration system and diffusion stone.

11. **OPTIONAL:** if you have our Mad Brewer Upgrade or Gravity Testing kits, measure specific gravity of the wort with a hydrometer and record.

12. Add yeast once the temperature of the wort is 78°F or lower (not warm to the touch). Use the sanitized scissors to cut off a corner of the yeast pack, and carefully pour the yeast into the primary fermenter.

13. Seal the fermenter. Add approximately 1 tablespoon of water to the sanitized fermentation lock. Insert the lock into rubber stopper or lid, and seal the fermenter.

14. Move the fermenter to a warm, dark, quiet spot until fermentation begins.

### BEYOND BREWING DAY, WEEKS 1-2

15. Active fermentation begins. Within approximately 48 hours of Brewing Day, active fermentation will begin - there will be a cap of foam on the surface of the beer, and you may see bubbles come through the fermentation lock.

16. Active fermentation ends. Approximately 1-2 weeks after brewing day, active fermentation will end: the cap of foam falls back into the new beer, bubbling in the fermentation lock slows down or stops.

17. Transfer beer to secondary fermenter. Sanitize siphoning equipment and an airlock and carboy bung or stopper. Siphon the beer from the primary fermenter into the secondary.

### BEYOND BREWING DAY— SECONDARY FERMENTATION

18. Secondary fermentation. Allow the beer to condition in the secondary fermenter for 2-4 weeks before proceeding with the next step. Timing now is somewhat flexible.

### BOTTLING DAY—ABOUT 1 MONTH AFTER BREWING DAY

19. Sanitize siphoning and bottling equipment.

20. Mix a priming solution (a measured amount of sugar dissolved in water to carbonate the bottled beer) of  $\frac{2}{3}$  cup priming sugar in 16 oz water. Bring the solution to a boil and pour into the bottling bucket.

21. Siphon beer into bottling bucket and mix with priming solution. Stir gently to mix—don't splash.

22. Fill and cap bottles.

### 1-2 WEEKS AFTER BOTTLING DAY

23. Condition bottles at room temperature for 1-2 weeks. After this point, the bottles can be stored cool or cold.

24. Serving. Pour into a clean glass, being careful to leave the layer of sediment at the bottom of the bottle. Cheers!

# IRISH BLONDE ALE

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Rules, schmules. Rather like a foreign stout without any roasted barley; or an overhopped albino Irish red; or an overgrown American wheat taking Celtic harp lessons; or a Kölsch gone rogue and on the run from the Reinheitsgebot ... pigeonhole it if you must, but this creamy-textured, straw-gold ale begs to be judged on its own merits. Capped with a dense meringue of nose-dotting foam, the pint offers up suggestions of buttered toast, warm cereal, and a trace of fruity, herbal hops. A full body with thick mouthfeel, more buttered toast and fruity hops give way to a finish evenly split between malty and bitter. Flaked barley and oat malt (wheat DME for the extract version) build density and a viscous texture with supporting grain flavors. Serve at cellar temperature any time of year; if you really want to go nuts, keg it and dispense with beer gas through a stout faucet!

**O.G.: 1.059 READY: 6 WEEKS**

1-2 weeks primary, 2-4 weeks secondary,  
1-2 weeks bottle conditioning

## KIT INVENTORY:

### MAILLARD MALTS™ SPECIALTY GRAIN

- 0.25 lbs CaraPils
- 0.125 lbs Special Roast

### MAILLARD MALTS™ EXTRACTS & OTHER FERMENTABLES

- 2 lbs Wheat dry malt extract
- 6 lbs Pilsen Malt syrup

### HOPTIMUS REX™ PREMIUM HOPS & OTHER FLAVORINGS

- 1 oz Palisade (60 min)
- 1 oz Palisade (20 min)

## YEAST

- Yeast 1084 Irish Ale Yeast. Slight residual diacetyl and fruitiness; great for stouts. Clean, smooth, soft and full-bodied. Apparent attenuation: 71-75%. Flocculation: medium. Optimum temp: 62-72° F.
- Dry Yeast Alternative: Safale S-04 Ale Yeast. Optimum temp: 64°-75° F

## BEFORE YOU BEGIN ...

### MINIMUM REQUIREMENTS

- Homebrewing starter kit for brewing 5 gallon batches
- Boiling kettle of at least 3.5 gallons capacity
- A 5 gallon glass carboy, with bung and airlock, to use as a secondary fermenter - If you do not have a secondary fermenter you may skip the secondary fermentation and add an additional week to primary fermentation before bottling
- Approximately two cases of either 12 oz or 22 oz pry-off style beer bottles

## UNPACK THE KIT

- Refrigerate the yeast upon arrival
- Locate the Kit Inventory (above) - this is the recipe for your beer, so keep it handy
- Doublecheck the box contents vs. the Kit Inventory
- Contact us immediately if you have any questions or concerns!

## PROCEDURE

### A FEW DAYS BEFORE BREWING DAY

1. Remove the liquid Wyeast pack from the refrigerator, and “smack” as shown on the back of the yeast package. Leave it in a warm place (70-80° F) to incubate until the pack begins to inflate. Allow at least 3 hours for inflation; some packs may take up to several days to show inflation. Do not brew with inactive yeast - we can replace the yeast, but not a batch that fails to ferment properly. If you are using dry yeast, no action is needed.

### ON BREWING DAY

2. Collect and heat 2.5 gallons of water.
3. For mail-order customers grains for extract kits come crushed by default, but if you requested uncrushed grains, crush them now. Pour crushed grain into supplied mesh bag and tie the open end in a knot. Steep for 20 minutes or until water reaches 170°F. Remove bag and discard.
4. Bring to a boil and add the 2 lbs Wheat dry malt extract and 6 lbs Pilsen malt syrup. Remove the kettle from the burner and stir in the Pilsen malt syrup and Wheat DME.
5. Return wort to boil. The mixture is now called “wort”, the brewer’s term for unfermented beer.
  - Add 1 oz Palisade hops and boil for 60 minutes.
  - Add 1 oz Palisade hops 20 minutes before the end of the boil.
6. Cool the wort. When the 60-minute boil is finished, cool the wort to approximately 100° F as rapidly as possible. Use a wort chiller, or put the kettle in an ice bath in your sink.
7. Sanitize fermenting equipment and yeast pack. While the wort cools, sanitize the fermenting equipment - fermenter, lid or stopper, fermentation lock, funnel, etc - along with the yeast pack and a pair of scissors.

8. Fill primary fermenter with 2 gallons of cold water, then pour in the cooled wort. Leave any thick sludge in the bottom of the kettle.

9. Add more cold water as needed to bring the volume to 5 gallons.

10. Aerate the wort. Seal the fermenter and rock back and forth to splash for a few minutes, or use an aeration system and diffusion stone.

11. **OPTIONAL:** if you have our Mad Brewer Upgrade or Gravity Testing kits, measure specific gravity of the wort with a hydrometer and record.11. Measure specific gravity of the wort with a hydrometer and record.

12. Add yeast once the temperature of the wort is 78°F or lower (not warm to the touch). Use the sanitized scissors

to cut off a corner of the yeast pack, and carefully pour the yeast into the primary fermenter.

13. Seal the fermenter. Add approximately 1 tablespoon of water to the sanitized fermentation lock. Insert the lock into rubber stopper or lid, and seal the fermenter.

14. Move the fermenter to a warm, dark, quiet spot until fermentation begins.

### BEYOND BREWING DAY, WEEKS 1–2

15. Active fermentation begins. Within approximately 48 hours of Brewing Day, active fermentation will begin - there will be a cap of foam on the surface of the beer, and you may see bubbles come through the fermentation lock.

16. Active fermentation ends. Approximately 1-2 weeks after brewing day, active fermentation will end: the cap of foam falls back into the new beer, bubbling in the fermentation lock slows down or stops.

17. Transfer beer to secondary fermenter. Sanitize siphoning equipment and an airlock and carboy bung or stopper. Siphon the beer from the primary fermenter into the secondary.

### BEYOND BREWING DAY— SECONDARY FERMENTATION

18. Secondary fermentation. Allow the beer to condition in the secondary fermenter for 2-4 weeks before proceeding with the next step. Timing now is somewhat flexible.

### BOTTLING DAY—ABOUT 1 MONTH AFTER BREWING DAY

19. Sanitize siphoning and bottling equipment.

20. Mix a priming solution (a measured amount of sugar dissolved in water to carbonate the bottled beer). Use the following amounts, depending on which type of sugar you will use:

- Corn sugar (dextrose)  $\frac{2}{3}$  cup in 16 oz water.
- Table sugar (sucrose)  $\frac{5}{8}$  cup in 16 oz water.

Then bring the solution to a boil and pour into the bottling bucket.

21. Siphon beer into bottling bucket and mix with priming solution. Stir gently to mix—don’t splash.

22. Fill and cap bottles.

### 1–2 WEEKS AFTER BOTTLING DAY

23. Condition bottles at room temperature for 1-2 weeks. After this point, the bottles can be stored cool or cold.

24. Serving. Pour into a clean glass, being careful to leave the layer of sediment at the bottom of the bottle. Cheers!

# IRISH RED ALE

Official NORTHERN BREWER Instructional Document

Irish ales are malty, smooth, medium-bodied, and most, like our kit, are a deep copper-red color that is created by a blend of specialty malts. Our malt blend also gives this recipe its signature toasty and sweet aroma and flavor. Another defining characteristic of Irish Red Ales are their immense drinkability - definitely a crowd-pleaser beer. Its great taste, drinkability, and low aging requirements make this our best-selling kit.

**O.G.: 1.044 READY: 6 WEEKS**

1-2 weeks primary, 2-4 weeks secondary, 1-2 weeks bottle conditioning

## KIT INVENTORY:

### MAILLARD MALTS™ SPECIALTY GRAIN

- 0.5 lbs Belgian Cara 8
- 0.25 lbs Briess Special Roast
- 0.125 lbs Belgian Biscuit
- 0.125 lbs English Chocolate Malt

### MAILLARD MALTS™ EXTRACTS & OTHER FERMENTABLES

- 6 lbs Gold Malt syrup

### HOPTIMUS REX™ PREMIUM HOPS & OTHER FLAVORINGS

- 1 oz Willamette (60 min)
- 1 oz US Goldings (30 min)

## YEAST

- Wyeast 1272 American Ale Yeast II. Fruitier and more flocculant than 1056, slightly nutty, soft, clean, slightly tart finish. Apparent attenuation: 72-76%. Flocculation: high. Optimum temp: 60°-72° F.
- Dry Yeast Alternative: Danstar Nottingham Ale Yeast. Optimum temp: 57°-70° F.

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## BEFORE YOU BEGIN ...

### MINIMUM REQUIREMENTS

- Homebrewing starter kit for brewing 5 gallon batches
- Boiling kettle of at least 3.5 gallons capacity
- A 5 gallon glass carboy, with bung and airlock, to use as a secondary fermenter - If you do not have a secondary fermenter you may skip the secondary fermentation and add an additional week to primary fermentation before bottling
- Approximately two cases of either 12 oz or 22 oz pry-off style beer bottles

## UNPACK THE KIT

- Refrigerate the yeast upon arrival
- Locate the Kit Inventory (above) - this is the recipe for your beer, so keep it handy
- Doublecheck the box contents vs. the Kit Inventory
- Contact us immediately if you have any questions or concerns!

## PROCEDURE

### A FEW DAYS BEFORE BREWING DAY IF YOU ARE USING THE WYEAST SMACK PACK:

1. Remove the liquid Wyeast pack from the refrigerator, and "smack" as shown on the back of the yeast package. Leave it in a warm place (70-80° F) to incubate until the pack begins to inflate. Allow at least 3 hours for inflation; some packs may take up to several days to show inflation. Do not brew with inactive yeast - we can replace the yeast, but not a batch that fails to ferment properly. If you are using dry yeast, no action is needed.

**NOTE: IF YOU ARE USING DRY YEAST OR  
WHITE LABS YEAST, NO ACTION IS NEEDED.**

### ON BREWING DAY

2. Collect and heat 2.5 gallons of water.
3. For mail-order customers grains for extract kits come crushed by default, but if you requested uncrushed grains, crush them now. Pour crushed grain into supplied mesh bag and tie the open end in a knot. Steep for 20 minutes or until water reaches 170°F. Remove bag and discard.
4. Bring to a boil and add the 6 lbs Gold malt syrup. Remove the kettle from the burner and stir in the Gold malt syrup.
5. Return wort to boil. The mixture is now called "wort", the brewer's term for unfermented beer.

- Add 1 oz Willamette hops and boil for 60 minutes.

- Add 1 oz US Goldings hops 30 minutes before the end of the boil.

6. Cool the wort. When the 60-minute boil is finished, cool the wort to approximately 100° F as rapidly as possible. Use a wort chiller, or put the kettle in an ice bath in your sink.
7. Sanitize fermenting equipment and yeast pack. While the wort cools, sanitize the fermenting equipment - fermenter, lid or stopper, fermentation lock, funnel, etc - along with the yeast pack and a pair of scissors.
8. Fill primary fermenter with 2 gallons of cold water, then pour in the cooled wort. Leave any thick sludge in the bottom of the kettle.
9. Add more cold water as needed to bring the volume to 5 gallons.
10. Aerate the wort. Seal the fermenter and rock back and forth to splash for a few minutes, or use an aeration system and diffusion stone.

11. Optional: if you have our Mad Brewer Upgrade or Gravity Testing kits, measure specific gravity of the wort with a hydrometer and record. 11. Measure specific gravity of the wort with a hydrometer and record.

12. Add yeast once the temperature of the wort is 78°F or lower (not warm to the touch). Use the sanitized scissors to cut off a corner of the yeast pack, and carefully pour the yeast into the primary fermenter.

13. Seal the fermenter. Add approximately 1 tablespoon of water to the sanitized fermentation lock. Insert the lock into rubber stopper or lid, and seal the fermenter.

14. Move the fermenter to a warm, dark, quiet spot until fermentation begins.

### BEYOND BREWING DAY, WEEKS 1-2

15. Active fermentation begins. Within approximately 48 hours of Brewing Day, active fermentation will begin - there will be a cap of foam on the surface of the beer, and you may see bubbles come through the fermentation lock.

16. Active fermentation ends. Approximately 1-2 weeks after brewing day, active fermentation will end: the cap of foam falls back into the new beer, bubbling in the fermentation lock slows down or stops.

17. Transfer beer to secondary fermenter. Sanitize siphoning equipment and an airlock and carboy bung or stopper. Siphon the beer from the primary fermenter into the secondary.

### BEYOND BREWING DAY- SECONDARY FERMENTATION

18. Secondary fermentation. Allow the beer to condition in the secondary fermenter for 2-4 weeks before proceeding with the next step. Timing now is somewhat flexible.

### BOTTLING DAY-ABOUT 1 MONTH AFTER BREWING DAY

19. Sanitize siphoning and bottling equipment.

20. Mix a priming solution (a measured amount of sugar dissolved in water to carbonate the bottled beer). Use the following amounts, depending on which type of sugar you will use:

- Corn sugar (dextrose)  $\frac{2}{3}$  cup in 16 oz water.
- Table sugar (sucrose)  $\frac{5}{8}$  cup in 16 oz water.

Then bring the solution to a boil and pour into the bottling bucket.

21. Siphon beer into bottling bucket and mix with priming solution. Stir gently to mix - don't splash.

22. Fill and cap bottles.

### 1-2 WEEKS AFTER BOTTLING DAY

23. Condition bottles at room temperature for 1-2 weeks. After this point, the bottles can be stored cool or cold.

24. Serving. Pour into a clean glass, being careful to leave the layer of sediment at the bottom of the bottle. Cheers!