



Rye Pale Ale

BJCP Style 18B • American Pale Ale

GRAINS: **12 OZ. BRIESS CRYSTAL 20L** **8 OZ. WEYERMANN RYE MALT** **8 OZ. BRIESS CARAPILS**

- 1) Add 3 gallons of water to the brewing pot. Pour the crushed grains into the grain bag and tie the bag loosely. Place the bag into the **150°-155°F** water and using a spoon incorporate the water into the grain bag so that all the grains are fully saturated. Put the lid on the pot and allow the grains to steep 30 minutes without direct heat. After 30 minutes remove and discard the grain bag.

EXTRACTS: **7 LBS. LIGHT LIQUID MALT EXTRACT**

- 2) Slowly pour the malt extract(s) into the pot while stirring constantly to keep the extract from just falling to the bottom and burning on the bottom of the pot. Turn the heat back on, set to high and bring the contents (now called *wort*) to a vigorous boil. **Boil for 60 minutes**. Monitor closely for possible boil overs. The lid must remain off during the entire **60 minute boil** to prevent potential off flavors (DMS).

HOPS:

- 3) During the **60 minute boil** hops are to be added at the following times. Note that times indicate minutes left till the end of the boil.
60 min. 1.0 OZ. CHINOOK
30 min. 0.5 OZ. CASCADE
10 min. 1.0 OZ. CHINOOK

FERMENTATION:

- 4) At the end of the **60 minute boil**, remove the pot from the heat. Allow the wort to cool to below 80°F. (You can use a wort chiller to hasten this very important step! Also be sure that anything that will come in contact with the chilled wort is properly sanitized.)
- 5) Add the chilled wort to a sanitized fermenter and add additional water to bring the total volume up to 5 gallons. At this point take a sample of the wort for the original specific gravity reading and record it in the space provided. Refer to your hydrometer instructions for taking this reading being sure to correct for temperature.
- 6) The proper temperature in which to pitch the yeast and to ferment the wort will vary based on the yeast strain and the beer style. The ideal fermentation temperature for this yeast strain is **65°-70°F**. If necessary, place the fermenter into a cold or warm water bath to adjust the temperature. When the temperature is correct, aerate the wort then pitch/add the yeast: **SAFALE US-05**. If the yeast provided is dry, simply sprinkle the yeast on the top of the wort and let it settle without stirring.
- 7) Install an airlock or blow off tube on the primary fermenter, and move it to a dark spot where it can maintain the appropriate temperature for the yeast strain.
- 8) **OPTIONAL:** After one week of fermentation rack (siphon) the beer into a sanitized secondary fermenter for an additional week to clear.

DRY HOPPING:

- 9) With 5-7 days left in the fermenter before bottling/kegging, **add 0.5 OZ CASCADE hops directly into the fermenter:**
- 10) At the end of the second week, take and record the specific gravity reading in the space provided. A steady specific gravity reading of different samples over two or more days indicates that fermentation is complete.

PACKAGING:

- 11) When fermentation and clearing is complete, you can proceed with bottling. In a sanitized bottling bucket, add **¾ cup** of corn sugar that has been boiled with 2 cups of water for 15 minutes and cooled. Gently rack the finished beer into the bottling bucket with the priming sugar solution. Gently stir without introducing oxygen (no splashing or sloshing) to incorporate sugar. Use a bottle filler to fill the bottles to the top of the bottle, when you remove the bottle filler it will be at the perfect level. Cap the bottles and allow them to condition at about **70°F for 2 weeks**.

All Grain Option:

Replace the Liquid Malt Extract (LME) with 9.5 lbs. of 2 Row Pale Malt. Add the specialty grains and mash at 152° F.

BREWING NOTES: _____

TASTING NOTES: _____



THIS KIT INCLUDES:

- 12 OZ. BRIESS CRYSTAL 20L
- 8 OZ. BRIESS CARAPILS
- 8 OZ. WEYERMANN RYE MALT
- 2 OZ. CHINOOK
- 1 OZ. CASCADE
- (1) SAFALE US-05 YEAST
- (1) 23" MUSLIN GRAIN SOCK
- (3) 11" MUSLIN HOP SOCKS

YOU WILL ALSO NEED:

- 7 LBS. LIGHT L. M. E.
- ¾ CUP CORN SUGAR
- BOTTLES & BOTTLE CAPS

PKG BY: _____ QC BY: _____



NOTE: *This kit may contain additional ingredients (i.e. hops, sugar, and spices). Use only the required amounts based on the recipe and seal and store the additional ingredients for future use.*

ORIGINAL GRAVITY Estimated: 1.049-1.053 Actual: _____

IBU Estimated: 42-46

FINAL GRAVITY Estimated: 1.010-1.014 Actual: _____

Estimated ABV: 5.1% **Actual ABV:** _____ %