



William Wallace Wee Heavy

⚠ If your kit has **liquid yeast**, put it in the refrigerator as soon as possible!

William Wallace (AKA Braveheart) became a leader during The Wars of Scottish Independence. Their pursuit of freedom was anything but simple, therefore not an option for this beer. This multidimensional wee heavy is blessed with seven specialty malts giving it a complex, rich, viscosity. A high starting gravity offers a tranquil alcoholic warmth which is quite welcome since it balances the malty sweetness. Ferment at cooler temperatures for clean, intense caramel goodness. Sláinte!

Calculated Appx.: O.G.: 1.070 F.G.: 1.020 ABV: 6.6% IBU: 20 SRM: 15

Kit Ingredients

- 1 lb Caramel 60 malt
- ½ lb Special B
- ¼ lb Crystal 120
- ¼ lb Crystal 40
- ¼ lb Ashburne Mild
- ¼ lb Munich 10L
- 7.25 lb Maris Otter malt
- 4 lb 2-row malt
- 2 oz East Kent Golding
- 1 cup corn sugar (for bottling)
- Wyeast 1728, GY044, or WLP028

⚠ Please make sure that your kit contains these items. Please call us at 608-257-0099 before brewing if any item is missing. Thanks!

Directions

Sanitize everything well! Remember to stir periodically throughout the boil!

0. If you are using liquid yeast, about three to six hours before you are going to brew, remove the liquid yeast from the refrigerator. If it is a Wyeast pack, break the nutrient pack inside the yeast package according to the directions on the package. Leave the yeast out at room temperature until it is time to pitch your yeast into your beer.
1. Fill your kettle with 4 gallons of water and heat it to 168F. Pour crushed **grain** into your mash tun and add the water. Check the temperature, make sure it is 153F. If it is too low, add hot water to bring up the temperature. Mash the grains for 60 minutes.
2. While your grains are mashing, heat 4.25 gallons of water to 170F in a separate pot. After the mash, vorlauf (drain 1-2 liters, or until wort is running clear and return this liquid to the mash tun) and drain the liquid from the grain. Then, sparge (rinse) the grains with the 4.25 gallons of hot water, collecting the runnings in your boil kettle. Then turn on the heat and bring the mixture to a boil. You will be boiling the mixture, called wort, for a total of 60 minutes. However, keep reading, because you'll be adding hops during that time.
3. Turn the heat back on and bring the wort to a boil. Upon initial boil the wort may foam up (called a "hot break"). If this happens, reduce the heat until the foam recedes, then turn up the heat, bring back to a boil,

- and maintain a rolling boil. Start your 60 minute boil timer now. Add **1 oz of UK East Kent Golding** hop pellets and boil the wort for 45 minutes. This hop addition will impart most of the bitterness to your beer.
4. Upon initial boil the wort may foam up (called a “hot break”). If this happens, reduce the heat until the foam recedes, then turn up the heat, bring back to a boil, and maintain a rolling boil. Start your 60 minute boil timer now. Add **1.5 oz East Kent Golding** hop pellets and boil the wort for 50 minutes. This hop addition will impart all of the bitterness to your beer.
 5. Time for another hop addition. Add **1/2 oz East Kent Golding** hop pellets and continue to boil for 10 more minutes.
 6. After these 60 minutes, you are done boiling your beer, so it’s time to turn off the heat.
 7. Sanitize fermentor, stopper, and air lock with sanitizing material according to its directions.
 8. Cool your hot wort down to around 70-80F by placing your pot carefully into a sink of ice water or by using a wort chiller. Carefully pour the hot wort into the cold water in the fermentor. If necessary, top up to 5 gallons with cold water.
 9. Take a temperature reading of the wort. If the wort mixture in the fermentor is below 80°F (not warm to the touch), give the wort a good shake or a good stir with a sanitized metal or plastic spoon. Here you are trying to aerate the wort, which will help your yeast get going. This is also a good time to take a hydrometer reading. The number from this reading is your starting gravity. Add your beer **yeast**. Instructions are on the yeast package.
 10. Seal your fermentor. Attach the fermentation lock half filled with water. Ferment at 60°-72°F for around 14 days. Note that it can take up to 24 hours for active fermentation to be visible. If you don’t see any activity in the air lock or foam on the surface of beer after 24 hours, call us at 608-257-0099. If doing a double stage fermentation, siphon the beer into the glass carboy after 5-7 days in the primary fermentor (the beer may be transferred to the glass carboy as soon as the foam has fallen far enough so the carboy will not overflow).
 11. After 14 days, if your beer has ceased fermentation, you can go ahead and bottle or keg your beer. Whether you bottle or keg, sanitize everything that will contact the beer during packaging, including bottles, caps, kegs, siphon tubing, bottle filler, etc. Also, now is a good time to take a hydrometer reading. This would be your beer’s final gravity.
 - a. **Bottling, Single-Stage Fermentor:** Siphon beer into sanitized bottles. Pour just under 1 tsp. corn sugar in each bottle. Cap and turn bottles upside down several times to mix in sugar.
 - b. **Bottling, 2-Stage Fermentor:** Rack the beer carefully off the sediment into a sterilized fermentor or bottling bucket from the carboy. Bring ¾ pint of water to a boil. Turn off heat. Dissolve 1 cup of corn sugar in this hot water and stir gently into the beer. Bottle and cap.
 - c. **Kegging:** Siphon the beer into your sanitized keg, purge the oxygen from the head-space, hook up to your CO2, wait, and enjoy!
 12. Store upright at room temperature (~70F) for 14 days to carbonate. Beer may then be stored at cooler temperatures to age. Beer may be consumed at any time, though it will continue to improve for several months.