



NORTHERN BREWER

GAARDEN HOE

| | | | |
|-------------|------------|------------|--|
| O.G. | ABV | IBU | BREW TIME: 6 WEEKS |
| 1.049 | 5.2% | 17.5 | Primary: 2 Weeks Secondary: 2 Weeks Bottle Conditioning: 2 Weeks |

The perfect pint after a hard day's work, Gaarden Hoe is an ode to the historic and refreshing Belgian wit. Classic wheat is expertly tilled into a traditional pilsner malt bill and modest, grounded hop profile. Coriander and bitter orange peel offer slightly tart and citrusy undertones to quench even the most parched palate.

KIT INVENTORY

FERMENTABLES

4 lbs Wheat DME
2 lbs Pilsen DME
(15 min late addition)

PREMIUM HOPS

| | |
|-------------------------|--------|
| 1 oz Saaz | 60 min |
| 1 oz Saaz | 15 min |
| 1 oz Bitter Orange Peel | 5 min |
| 1 oz Coriander Seed | 5 min |

SUGGESTED YEAST

YEAST

DRY YEAST:

Fermentis SafAle BW-20
Optimum Temp: 64°- 79°F

LIQUID YEAST OPTIONS:

Imperial Yeast B44 Whiteout
Optimum temp: 62°- 72°F

Omega Yeast OYL-030 Wit
Optimum temp: 62°- 75°F

Wyeast 3944 Belgian Wit Yeast
Optimum temp: 62°- 75°F

BEFORE BREW DAY

- Upon arrival, unpack kit.
- Read all instructions before starting.
- Be sure you have all items listed in the Kit Inventory.
- Refrigerate liquid yeast.
- If making a yeast starter, we suggest 24-48 hrs.
- Contact us if you have any questions or concerns.

YOU WILL NEED

- Homebrewing equipment for brewing 5 gallon batches.
- Boiling kettle (at least 3.5 gallons capacity).
- Approx. 2 cases of 12 oz or 22 oz pry-off beer bottles.
- **Optional** - 5 gallon carboy, with bung and airlock, to use as secondary fermentor.

A FEW HOURS BEFORE BREW DAY

Remove liquid yeast packages from the refrigerator, and leave in a warm place (~70°F). Check yeast instructions on packet.

BREWING NOTES

KEY STATS

Brew Day Date: _____

Secondary: _____

Important Additions: _____

Bottling/Kegging: _____

Fermentation Temp: _____

Yeast Strain #: _____

Measured OG: _____ FG: _____

ON BREWING DAY

1. Heat 2.5 gal of water.
2. Bring to a boil and add **4 lbs Wheat DME**. Remove the kettle from the burner and stir in the Wheat DME.
3. Return to boil. The mixture is now called "wort", the brewer's term for unfermented beer.
NOTE: Total boil time is 60 min.
 - Add **1 oz Saaz hops** 60 min
 - Add **2 lbs Pilsen DME and 1 oz Saaz** 15 mins before the end of the boil
 - Add **1 oz Coriander Seed and 1 oz Bitter Orange Peel** 5 mins before the end of the boil**Note:** You may crush the seeds before adding if you wish.
Note: If you have extra hops, store them in the freezer or they can be discarded.
4. Cool wort. When 20-minute boil is finished, cool wort to approximately 100°F as rapidly as possible. Use a wort chiller, or put kettle in an ice bath in your sink.
5. Sanitize fermenting equipment and yeast pack. While wort cools, sanitize fermenting equipment (fermenter, lid or stopper, airlock, funnel, etc) along with yeast packs.
6. Fill primary fermenter with 2 gal cold water, then pour in cooled wort. Leave any thick sludge in bottom of kettle.
7. Add more cold water as needed to bring volume to 5 gal.
8. Aerate wort: Seal fermenter and rock back and forth to splash for a few mins, or use an aeration system and diffusion stone.
9. Measure wort's specific gravity with a hydrometer. Record.
10. Add yeast once temp. of the wort is 78°F or lower (not warm to the touch). Sanitize and open yeast pack. Carefully pour contents into primary fermenter.
11. Seal fermenter. Add approx. 1 tbsp of water to sanitized fermentation lock. Insert airlock into rubber stopper or lid. Seal fermenter.
12. Move fermenter to a warm, dark, quiet spot until fermentation begins.

PRIMARY FERMENTATION

13. **Within 48 hours Active fermentation begins.**
You'll see a cap of foam on the surface of the beer. Specific gravity as measured with a hydrometer will drop steadily. You may see bubbles in the fermentation lock. The optimum temp. for this beer is 65°- 70°F.
14. **Within 1-2 weeks Active fermentation ends.**
Proceed to next step when:
 - Cap of foam falls back into the beer.
 - Bubbling in airlock slows down or stops.
 - Specific gravity as measured with a hydrometer is stable.

SECONDARY FERMENTATION (OPTIONAL)

- NOTE:** You may skip transferring to a secondary fermenter and simply leave the beer in the primary fermenter.
15. Sanitize siphoning equipment, airlock, carboy bung or stopper. Siphon beer from primary fermenter into secondary. (optional - see above)
 16. Allow beer to condition in secondary fermenter for 2 weeks before proceeding with the next step. Timing is now somewhat flexible.

BOTTLING DAY (ABOUT 4 WEEKS AFTER BREWING DAY)

17. Sanitize siphoning and bottling equipment.
18. Mix a priming solution (sugar dissolved in water; carbonates bottled beer). Use the following amounts, depending on which type of sugar you use:
 - Corn sugar (dextrose) 2/3 cup in 16oz water.
 - Table sugar (sucrose) 5/8 cup in 16oz water.Bring solution to a boil. Pour into bottling bucket.
19. Siphon beer into bottling bucket and mix with priming solution. Stir gently to mix
 - *do not splash.*
20. Fill and cap bottles.

CONDITIONING (ABOUT 6 WEEKS AFTER BREWING DAY)

21. Condition bottles at room temp. for 1-2 weeks. After this point, store bottles cool or cold.
22. Serving: Pour into a clean glass. Be careful to leave any sediment at the bottom of the bottle. Cheers!

WE'VE GOT YOUR BATCH

We're so confident in the quality of our beer kits, we'll replace any kit, anytime, no questions asked.

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