



Horseman's Pumpkin Ale — *Liquid Pumpkin Pie!*

A golden ale brewed with pumpkin, spices and caramel malts for a true pumpkin pie flavor!

NOTE—Pumpkin and Spices need to be purchased separately

BEER SPECS

Original Gravity: **1.046—1.050**
 Final Gravity: **1.011—1.014**
 IBU: 17 –20
 ABV%: 4.5% - 5.0%
 Yield: 5 Gallons

NOT INCLUDED IN KIT

Irish Moss (*for clarity, optional*)
 Yeast
 Bottle Caps (*53 caps needed*)
 Priming Sugar (*5oz or 3/4 cup*)
 15.0 oz. Canned pumpkin
 0.5 tsp. Cinnamon
 0.5 tsp. Vanilla
 0.5 tsp. Pumpkin pie spice
 0.25 tsp. Nutmeg
 0.25 tsp. Ground ginger

USEFUL INFORMATION

OG = Original Gravity: Specific Gravity Before Fermentation
 FG = Final Gravity: Specific Gravity After Fermentation
 ABV = Alcohol by Volume
 ABW = Alcohol by Weight
 IBU = International Bittering Units
Alcohol by Volume Equation:
 $%ABW = (OG-FG) \times 105$
 $%ABV = ABW \times 1.25$

RECIPE DETAILS

6.6 lbs.	Light Liquid Malt Extract	FERMENTABLES
1.00 lb.	Munich malt, crushed	SPECIALTY GRAINS
0.50 lb.	40L Crystal malt, crushed	
15 oz.	Canned Pumpkin (NOT pumpkin pie mix—not included)	
1.0 oz.	East Kent Golding hops, added at the beginning of 60 min boil	
1.0 tsp.	Irish moss (<i>optional</i>), added 20 min from the end of the boil	
NOTE -	Spices below (<i>not included</i>), added 10 min from the end of the boil	BOIL SCHEDULE

0.5 tsp.	Cinnamon	
0.5 tsp.	Vanilla	
0.5 tsp.	Pumpkin pie spice	
0.25 tsp.	Nutmeg	SPICES (NOT INCLUDED)
0.25 tsp.	Ground ginger	

YEAST SUGGESTIONS: Omega Yeast Labs OYL011 British Ale V, Wyeast 1318 London Ale III, Imperial Organic Yeast A38 Juice, White Labs WLP066 London Fog, or Lallemand New England East Coast Ale Dry Yeast

EQUIPMENT

REQUIRED EQUIPMENT

- 3 gal or larger Brew Pot
- 6.5 gal Primary Fermenter
- Siphon Hose/Racking Cane
- Large Spoon or Paddle
- Air Lock
- Hydrometer
- Thermometer
- Cleanser
- Sanitizer
- Bottles or Kegging System

RECOMMENDED EQUIPMENT

- 7.5 gal Brew Pot
- Wort Chiller
- 5 gal Secondary Fermenter
- Thief
- Oxygen Cylinder
- Aeration Stone

Included Muslin Bags

Grain = 1
 Hop = 0



Brewing Instructions: Horseman's Pumpkin

PRIOR TO BREWING

1. **Clean and Sanitize** all equipment, tubing, etc.
2. If using liquid yeast, remove package from fridge and 'smack' the pack to release the nutrients. Allow pack to swell for 4-8 hours at room temperature.

BREWING DAY

1. Fill kettle with water and heat to 160F.
 - Partial boil method: fill kettle with as much water as possible while leaving room for grains, malt extract, and boil volume
 - Full boil method: fill kettle to approximately 6.5 gal water for a volume of 5 gal post-boil
2. Rehydrate Irish moss in 1/2 cup warm water. Set aside (*optional, for clarity*).
3. Turn off burner (remove kettle from heating element if using an electric stove). Place crushed specialty grains and pumpkin in a muslin bag and soak in **150-155F water for 30 minutes**. Remove bag, and allow remaining water in grains to drain into kettle. Do not squeeze grains.
4. While stirring, add malt extract until fully dissolved.
5. Turn the heat on and bring wort to a boil. **WATCH OUT!** Just before the boil, the wort rapidly rises.
6. Follow **Boil Schedule** on opposite page under 'Recipe Details'
7. At end of boil, chill wort as quickly as possible to **60-70F** with a wort chiller or an ice bath. Place lid on kettle while chilling.
8. Siphon or pour cooled wort into fermenter leaving as much sediment behind as possible:
 - Partial Boil: Add sterile water (packaged drinking water) to fermenter to reach 5.25 gal
 - Full Boil: Siphon entire volume of wort into fermenter.
9. **Aerate wort** well by stirring, shaking or oxygenating.
10. Sanitize yeast package and use sanitized scissors to open package. Pitch yeast and attach airlock. If using a yeast starter, pitch entire contents of yeast starter into wort.
11. Move fermenter to a dark place with a steady temperature of **64-70F**.

FERMENTATION

1. Primary Fermentation: Allow beer to ferment for 8-10 days. If using a secondary fermenter, only ferment for 4-6 days then proceed to STEP 2.
2. Secondary Fermentation (*optional*): Transfer beer to a 5 gal carboy, leaving behind the sediment. Allow beer to ferment in carboy for an additional 4-7 days.
3. Check gravity prior to proceeding with bottling to ensure fermentation is complete. (Reference *Final Gravity* under 'Recipe Details')

BOTTLING

1. Ensure there is no bubbling in the airlock, and that your beer has reached final gravity.
2. **Clean and sanitize** all bottles, caps, bottling equipment and bottling bucket.
3. Dissolve **3/4 cup (5 oz) priming sugar** in 2 cups boiling water. Boil for 5 min then chill to 70-80F and add to bottling bucket.
4. Siphon beer from fermenter into bottling bucket, being careful not to rouse up sediment on bottom of fermenter.
5. Stir thoroughly but gently to avoid introducing oxygen.
6. Using the bottle filler, fill bottles and cap them.
7. Store bottles at room temperature for **2 weeks** or until carbonated.

TIPS FOR SUCCESS

1. Clean AND Sanitize!
2. Avoid using softened water or Reverse Osmosis water.
3. Make sure the specialty grains are loose inside the muslin bag to ensure water reaches the entire amount.
4. Tie muslin bag to handle of kettle to prevent potential scorching on bottom of kettle.
5. Be sure not to exceed 155F while steeping grains to avoid unwanted flavors.
6. Turn off heat source and stir well while adding malt extract to avoid scorching on the bottom of the kettle.
7. Keep a spray bottle of water at hand to spray top of wort if it nears a boil over.
8. While racking, be sure not to introduce oxygen into your beer by splashing or shaking.
9. Maintain a constant temperature during fermentation.
10. Visit www.greatfermentations.com for more brewing tips and tricks.

