## **STATION #2**

## MASH pH OF MINI MASH



## **PURPOSE**

Mini mashes are great bench top testing tools used to address a range of brewing questions. Today, mini mashes will be used to determine mash pH of a range of grist bills. Each group will prepare one mash and measure the pH for discussion later in the day.

## **MAJOR MATERIALS**

- Malt samples
- Coffee grinder
- Canning jars
- Hot water bath
- pH meter
- pH buffers

#### **MINI MASH COMPOSITIONS**

- Group #1
  - o 100 grams Rahr North Star Pilsner malt
  - o 300 mL 168-172°F mash water (collect from water heater)
- Group #2
  - o 97 grams Rahr North Star Pilsner malt
  - o 3 grams Weyermann® Acidulated malt
  - o 300 mL 168-172°F mash water (collect from water heater)
- Group #3
  - o 94 grams Rahr North Star Pilsner malt
  - o 6 grams Simpsons Roasted Barley
  - 300 mL 168-172°F mash water (collect from water heater)
- Group #4
  - o 92 grams Rahr North Star Pilsner malt
  - o 8 grams Dingemans Special B
  - o 300 mL 168-172°F mash water (collect from water heater)
- Group #5
  - o 94 grams Rahr North Star Pilsner malt
  - o 6 grams Gambrinus Honey malt
  - 300 mL 168-172°F mash water (collect from water heater)

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## **BASIC STEPS**

- 1. Weigh and mill malt sample per the group assignments above.
- 2. Transfer milled malt from mill to canning jar and clean mill for next group.
- 3. Add 300 mL of hot water to canning jar, close lid, shake for 15 seconds.
- 4. Transfer to hot water bath and incubate for 15 minutes.
- 5. Measure mash pH.