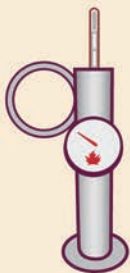


# How to Use a Murphy Cup/Float

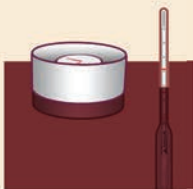
## You Will Need

- **Murphy Compensation Cup OR Murphy Compensation Float**
- **Syrup hydrometer with a BRIX scale**  
For best results, the hydrometer should be calibrated at 60°F.  
(Canadian hydrometers may be calibrated at a different temperature.)
- **Maple syrup sample**



## Murphy Cup

- 1 Float your hydrometer in a syrup sample in the Murphy Cup.
- 2 Compare the hydrometer reading to the Murphy Cup reading. (See example on page 4).
- 3 Return the syrup sample to its original container. Rinse and dry the Murphy Cup and Hydrometer.



## Murphy Float

- 1 Place your Murphy Compensation Float and hydrometer side by side in a vessel of syrup.
- 2 Compare the hydrometer reading to the Murphy Float reading. (See example on page 4).
- 3 Remove the Murphy Float and hydrometer from your syrup sample. Rinse and dry.

**HYDROMETERS ARE FRAGILE!** Be careful when releasing your hydrometer into a Murphy Cup — or ANY vessel. It could crack if it collides into the floor.

## Tips

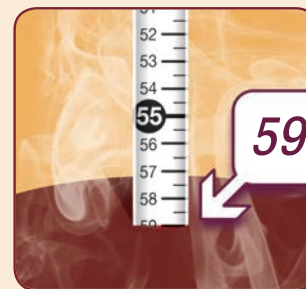
- Allow both the hydrometer and the dial to stabilize before taking a reading.
- Always start with a clean and dry hydrometer and Murphy Cup/Float.
- If the paper inside your hydrometer is loose, replace your hydrometer.
- If you are using a hydrometer that is calibrated at 68°F (common in Canada), add 0.16 BRIX to the dial reading to determine the most precise target value.

# Comparing the Readings

EXAMPLE MURPHY DIAL READING (TARGET)



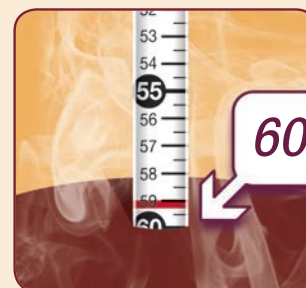
BELOW ARE THREE EXAMPLE HYDROMETER READINGS WHICH ARE BEING COMPARED TO THE ABOVE MURPHY DIAL READING.



## Keep Boiling!

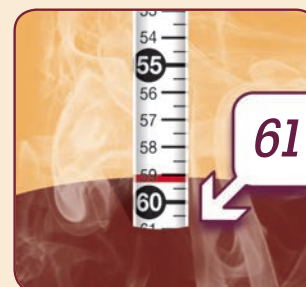
If the hydrometer reading is **LOWER** than the dial's reading, your syrup's sugar density is **LOWER** than 66.9° BRIX.

(59 - 60 = -1. So this sample is 1° BRIX lower than 66.9° BRIX.)



## Just Right!

If the hydrometer reading **MATCHES** the dial's reading, your syrup's sugar density is **PERFECT!** (66.9° BRIX)



## Oops! Add Sap!

If the hydrometer reading is **HIGHER** than the dial's reading, your syrup's sugar density is **HIGHER** than 66.9° BRIX.

(61 - 60 = 1. So this sample is 1° BRIX higher than 66.9° BRIX.)

The hydrometer depicted above has received accolades for being the most legible syrup hydrometer in the maple industry. Designed by Smoky Lake Maple Products.

Learn more at [SmokyLakeMaple.com/gold](http://SmokyLakeMaple.com/gold)