

Testing Irrigation Emitters, Version 1.0

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When my drip irrigation has an underperforming emitter, plants start to wilt within a few hours when the temperature gets above 110°. The recurring question is – do I need to adjust the run time for this zone, or do I have a partially clogged emitter?

My eye is not calibrated to look at the flow and know the number of gallons per hour (GPH). I needed a simple way to measure it.

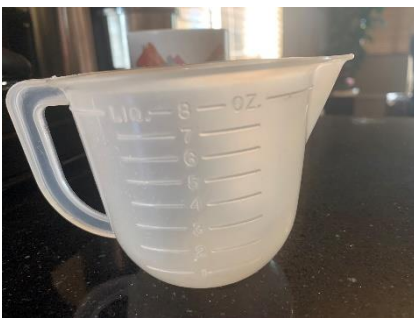
My solution is downright embarrassing.

Here is the math:

1 gallon is 128 ounces

1 hour is 60 minutes

$$1 \text{ gallon per hour} = \frac{128 \text{ ounces}}{60 \text{ minutes}} \approx \frac{2 \text{ ounces}}{\text{minute}} = \frac{1 \text{ ounce}}{30 \text{ seconds}}$$



I divert the emitter's flow into my measuring cup for 30 seconds. The number of ounces collected is also the number of gallons per hour.

I use emitters rated at 1, 2, and 4 GPH. This cup can handle up to 8 GPH.

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