



# Sprayer Calibration (Tank & Backpack)

1. Select the proper equipment for the job to be done. This includes nozzles, pumps, hoses, pressure regulators, etc...
2. Do not use pesticides during calibration. Dy'on® is recommended to aid in determining spray pattern, droplet size, coverage and pressure.
3. Calibrate properly and check calibration periodically.
4. Record all information on back of this sheet.

## TANK SPRAYER AND BACKPACK CALIBRATION:

(Flat fan nozzles and shower heads are generally used in broadcast applications, solid cone for spot treating.)

1. Measure a 20' x 50' area or 1000 ft<sup>2</sup> (For best accuracy, test areas of 1000 ft<sup>2</sup> are recommended. If doing an area less than 1000 ft<sup>2</sup>, input that known area in ft<sup>2</sup> in the formula on the back of this page.)
2. Fill sprayer with water (and optional Dy'on®)
3. Using a stop watch, time the applicator spraying the 1000 ft<sup>2</sup> area. (Keep walking speed and pressure constant. Use of Dy'on® will show light heavy a skipped areas of application.) Do more than once and record the average time.
4. Now spray into a measured container for the amount of time you recorded spraying 1000ft<sup>2</sup> and record in fl oz. Divide your fl oz caught by 128 and you will now know your gal/1000 ft<sup>2</sup>. To determine gal/Acre. Multiply your spray volume gal/1000 ft<sup>2</sup> by 43.56. (Formula and useful conversion on back)

## EXAMPLE -

After spraying an area of 1000 ft<sup>2</sup> it took us 1 min to apply that area. We did a catch into our container for 1 min and measured 256 fl oz. Now we can calculate gal/1000 ft<sup>2</sup>;  $256 \div 128 = 2$  gal/1000ft<sup>2</sup>

## DETERMINING AMOUNT OF PRODUCT TO ADD TO SPRAY SOLUTIONS PER TANK:

### Calculation / 1000 ft<sup>2</sup> -

1. Amount of water in tank (gal)  $\div$  Spray volume (gal/1000ft<sup>2</sup>) = The amount of area you will cover with that volume in 1000ft<sup>2</sup>. **Example; We have a 200 gallon tank that has been calibrated to put out 2 gal/1000 ft<sup>2</sup>.  $200 \div 2 = 100$  (1000ft<sup>2</sup>)**
2. Label rate per 1000 ft<sup>2</sup> x coverage area in 1000 ft<sup>2</sup> = amount of product in tank.

### Calculation / Acre -

1. Amount of water in tank (gal)  $\div$  Spray volume (gal/1000 ft<sup>2</sup>)  $\div$  43.56 = The amount of area you will cover with that volume in Acres. **Example; We have a 200 gallon tank that has been calibrated to put out 2 gal/1000 ft<sup>2</sup>.  $200 \div 2 = 100$  (1000 ft<sup>2</sup>)  $\div$  43.56 = 2.295 Acres.**
2. Label rate per 1000 ft<sup>2</sup> x 43.56 x coverage area in Acres = amount of product in tank.



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# NOTES AND CONVERSIONS

## SPRAYER INFORMATION

Sprayer Information					
Sprayer ID					
Pump PSI					
Spray gun					
Nozzle Type					

## CALIBRATION INFORMATION

Amount caught in fl oz <b>(a)</b>					
Area in ft <sup>2</sup> <b>(b)</b>					
Time to spray area in seconds					
Formula to get GAL/1000 ft <sup>2</sup> =	$(a) \times 1000 / (128 \times (b))$				

## USEFUL CONVERSION

- 1 GALLON = 128 FLUID OUNCES
- 1 GALLON = 4 QUARTS
- 1 QUART = 32 FLUID OUNCES
- 1 PINT = 16 FLUID OUNCES
- 2 PINTS = 1 QUART
- 1 TABLESPOON = 1 OUNCE
- 3 TEASPOONS = 1 TABLESPOON
- 1 POUND = 16 OUNCES
- 1 ACRE = 43,560 FT<sup>2</sup>
- 43,560 FT<sup>2</sup> = 43.56 (1000 FT<sup>2</sup>)



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