

HANDGUN SPRAY CALIBRATION

1. Mark out an area 31.5 feet by 31.5 feet – this equals 1,000 sq. ft.

2. Setup your sprayer and uniformly spray the measured test area with your handgun sprayer (with clean water) and **RECORD** the amount time it took you to spray

“UNIFORMLY SPRAY the TEST AREA”

Record this time and **SECONDS** or **MINUTES** and write that time down

_____ **Time to Spray Area**

3. Catch the spray (clean water) from your handgun sprayer or hand wand sprayer in a container for the same period of time (seconds or minutes) that it took you to spray the 1,000 sq. ft.

Record this amount in gallons caught and write that down

= _____ **gallons caught**

4. Calculate the application rate per acre by taking the gallons of spray you caught and take it times 43.56 to get your application rate per acre in gallons.

= _____ **gallons per acre applying with the handgun sprayer**

5. Take the size of your sprayer tank and divide it by your application rate per acre to get how many acres you will apply with each full tank load.

6. YOU CAN THEN CALCULATE HOW MUCH CHEMICAL(S) IS/ARE NEED FOR EACH TANK LOAD

7. Tank size = _____ divided by GPA _____

= _____ **acres per full tank**

EXAMPLE ONLY:

You took 90 seconds to spray the 1,000 sq. ft.

You caught 2.25 gallons of water in the same 90 seconds

There is 43,560 sq. ft. in an acre / we divide that by 1,000 and that gives us 43.56

You take the 43.56 x 2.25 and that = 98 gallons per acre application rate through the handgun sprayer

If you are working with a 300 gallon sprayer then you divide the 300 gallons by 98 GPA and this will give you 3.06 acres you can apply per **“FULL”** tank load