

**BOOM and BOOM-LESS SPRAYER CALIBRATION SHEET**

- (1.) -Fill the sprayer with – **CLEAN** – water (never add herbicides while calibrating)
- (2.) -Run your sprayer at your selected operating pressure “with your booms or handgun turned on” – (Most should be run at 25 to 40 p.s.i.)
- (3.) – Make sure all nozzles are spraying uniformly and **MEASURE** the **SWATH WIDTH** in “**FEET of SPRAYED AREA**” and write that down

\*This = \_\_\_\_\_ feet width of sprayed area

- (4.) – Collect the spray volume from each nozzle(s) and measure the “**EXACT AMOUNT COLLECTED** in 1 (one) **MINUTE**”, record the amount caught in gallons per minute (GPM) and write that down

\*This = \_\_\_\_\_ gallons caught in 1 minute  
(If you wrote the amount down in ounces caught then divide by 128 to get gallons)

- (5.) – Determine the sprayer speed in miles per hour (**MPH**) over a 200 foot distance. Maintain the desired speed and measure in “**SECONDS**” the time it takes the sprayer to travel the 200 foot distance (do this several times to get an average in your speed and to get used to a certain speed) and write this time down in seconds to travel

\*This = \_\_\_\_\_ seconds to travel 200 feet

- (6.) – You determine your miles per hour by taking:  
 $200 \text{ feet} \times 0.682 =$  \_\_\_\_\_ and then divide by the seconds to travel the 200 feet into that number (0.682 is a constant used in the equations for speed in 200 feet)

\*This will = \_\_\_\_\_ Miles per Hour Traveling

- (7.) – You determine your gallons per acre applying by doing the following:

$$\text{GPA (gallons per acre)} = \frac{\text{GPM (gallons per minute)} \times 495 \text{ (constant used)}}{\text{MPH (miles per hour)} \times \text{SW (swath width)}}$$

GPA = Gallons per Minute caught x 495 = \_\_\_\_\_  
(Divide this number by)

MPH (miles per hour) x SW (swath width) = \_\_\_\_\_

\*This = \_\_\_\_\_ Gallons per acre applying