**UTV Multi-nozzle Boom Sprayer Calibration and Use**

1. Measure and mark out a 100’ distance on a surface where you will be able to see water sprayed or use an inert dye.
2. Spray the swath of your spray rack on the UTV and measure its width. **Given:** *15 ft width*
3. Start and spray your 100’ distance using your normal speed of 3-4MPH and measure the time it takes to cover that 100’ distance.

**Given:** *17 seconds*

1. With the UTV stationary, start and spray the boom and collect water below each nozzle for the same time it took to cover the 100’ distance.

**Given:** All nozzles collect 8 ounces (There are a total of 9 nozzles)

Total of the 9 nozzles = \_\_\_\_\_\_oz

1. Calculate the gallons sprayed over the calibration area.

 =\_\_\_\_\_\_\_\_\_\_\_\_\_gallons

1. Calculate the calibration area in acres,

 = \_\_\_\_\_\_\_\_\_\_\_\_acres

1. Calculate the Gallons per Acre (GPA) your UTV sprayer can accomplish,
2. Calculate the total acres your UTV can cover with a full **60 gallon** tank,
3. Determine the amount of water and chemical to add to fill a 60 gallon tank.

**How much of each chemical is to be added to a 60 gallon tank?**

Tank Mix is as follows

Foundation per label = 4 pints per acre (1 pint = 16 ounces)

Insist 90 per label = 1 quart/100-gal spray solution (1 quart = 32 ounces)

Foundation = \_ \_\_\_\_\_ oz/tank (128 ounces =1 gallon)

Insist 90 =\_\_\_\_\_\_\_\_oz/tank

Total Chemical = \_\_\_\_\_\_\_\_oz/tank

Total Chemical = \_\_\_\_\_\_gallons/tank

60 gallons - \_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_ gallons