**ATV 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 ATV and measure its width.

1. Start and spray your 100’ distance using your normal speed of 3-4MPH and measure the time it takes to cover that 100’ distance.
2. With the ATV stationary, start and spray the boom and collect water below each nozzle for the same time it took to cover the 100’ distance.
	1. Nozzle 1 \_\_\_\_\_\_\_\_\_oz
	2. Nozzle 2 \_\_\_\_\_\_\_\_\_oz
	3. Total of the 2 nozzles = \_\_\_\_\_\_\_\_\_\_\_\_oz
3. 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 ATV sprayer can accomplish,

 (+/- 5 %?)

1. Calculate the total acres your ATV can cover with a full **25 gallon** tank,
2. Determine the amount of water and chemical to add to fill tank.

Tank Mix is as follows (1 pint =16 ounces)

 Battleship III per label = 3pt/acre

 Dyne-Amic per label = 3 pts per 100 gallon

**How much of each chemical is to be added to a full 25 gallon tank?**

Battleship III = \_\_\_\_\_\_\_\_\_\_\_oz/tank (128 oz = 1 gallon)

Dyne-Amic =\_\_\_\_\_\_\_\_\_\_\_\_oz/tank

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

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

25 gallons - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**UTV 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.
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.
4. 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.
	1. Nozzle 1 is boom less nozzle \_\_\_\_\_\_\_\_\_oz
	2. Nozzle 2 flood nozzle\_\_\_\_\_\_\_\_\_oz
	3. Nozzle 3 boom less nozzle \_\_\_\_\_\_\_\_\_oz
	4. Total of the 3 nozzles = \_\_\_\_\_\_\_\_\_\_\_\_\_ oz
* Note, since we have different types of nozzles on the same boom the different types of nozzles must be matched as to their respective gallon per acre output, as they each have different flow rates and different spray widths.
1. Calculate the gallons sprayed over the calibration area.

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

1. Calculate the area of the calibration area in acres,

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

1. Calculate the Gallons per Acre (GPA) your UTV sprayer can accomplish,

 (+/- 5 %?)

1. Calculate the total acres your UTV can cover with a full **60 gallon** tank,
2. Determine the amount of water and chemical to add to fill tank.

Tank Mix is as follows

 Milestone per label = 7 oz/acre

 Base Camp Amine 4 per label = 1 quart/acre (1 quart = 32 ounces)

 Ranier EA per label = 5 oz/acre

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

Milestone = \_\_\_\_\_\_\_\_\_\_\_oz/tank (128 oz = 1 gallon)

Base Camp Amine 4 =\_\_\_\_\_\_\_\_\_\_\_\_oz/tank

Ranier EA = \_\_\_\_\_\_\_\_\_\_\_\_oz/tank

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

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

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

**Backpack Sprayer Calibration and Use**

1. Measure and mark out a 340 square foot area where you will be able to see water sprayed such as 18.5’ x 18.5’ or 5’ x68’
2. Spray the area using just water and at your normal pressure and normal pace. Record the time it takes to cover the area.
3. Spray water into a bucket for the same amount of time and record the amount captured.
4. The number of ounces (oz) collected equals the number of gallons per acre (GPA) your sprayer is delivering so your application rate = \_\_\_28\_\_\_\_\_oz = \_\_\_\_\_\_\_\_\_GPA
5. Calculate how many acres your backpack sprayer can cover with a full

**4 gallon** tank

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

1. Determine the amount of water and chemical to add to fill the tank.

 Tank mix is as follows

 Esplanade 200SC = 7 oz/acre

 Glyphosate = 5 % Solution

 Syltac EA = 4 oz/acre

 **How much of each chemical is to be added to a full 4 gallon tank?**

 Esplanade 200SC = \_\_\_\_\_\_\_\_\_\_\_oz/tank

 Glyphosate = \_\_\_\_\_\_\_\_\_\_\_\_\_oz/tank

 Syltac EA = \_\_\_\_\_\_\_\_\_\_\_\_\_oz/tank

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

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

 4 gallons - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_