

## BATCH MIXING FOR 1, 2, 3 GAL. HANDHELD SPRAYERS & BACKPACKS

**PROBLEM 1:** We want to apply low use per acre chemicals (5 oz, 7oz, 12 oz) through a 1 gallon handheld sprayer

We have calibrated our hand sprayer and have determined that it is applying 1 gallon per 1,000 sq. ft. or 43.56 gallons per acre. We will need to fill this sprayer 43.5 times to spray 1 full acre

**PROBLEM 2:** If we are using a 1 gallon hand sprayer then measuring these small amounts accurately is real difficult to do for each sprayer fill or per gallon of water.

**PROBLEM 3:** How do we measure accurately the proper amounts of each product for each gallon or fill in the smaller 1, 2 or 3 gal. Sprayers or backpack sprayers???????

### SOLUTION:

#### WE MAKE BATCH MIXES FOR THESE SPRAYERS

**HERE IS WHAT YOU DO:** Get a 1 gallon, 2 gallon or 2.5 gallon container like a measuring jug or the like and make sure it has a lid that you can seal.

Fill this container  $\frac{1}{4}$  to  $\frac{1}{2}$  full of water / next measure your 1 acre worth of product you are using and put that into the container / repeat the same for additional products and surfactant and put that into the container as well.

**FINISH FILLING THE CONTAINER UP TO THE 1 GALLON MARK or What Ever Would Fill the Container.**

**NOW YOU HAVE 128 OUNCES OF BATCH MIX OR 1 ACRE OF MATERIAL IN THE GALLON, AGAIN, Our 1 gallon of Batch Mix = 128 ounces of liquid material**

**You take your 128 ounces of batch mix and divide by 43.5 (or calibrated rate on the hand sprayer) and this will give you 2.94 ounces / you will need to add 2.94 ounces of BATCH MIX to each GALLON of water in your smaller sprayer**

**If you have a bigger sprayer such as a 3 gallon backpack or handheld then you just take the 2.94 ounces x 3 and that = 8.82 (almost 9) ounces per full load of the sprayer.**

#### Examples Only:

<u>Calibrated Rates</u>	<u>128 oz Batch Mix</u>	<u>1 gal.</u>	<u>2 gal.</u>	<u>3 gal.</u>
30 gal. Acre		4.26 oz	8.5 oz	12.78 oz
40 gal. Acre		3.2 oz	6.4 oz	9.6 oz
50 gal. Acre		2.56 oz	5.12 oz	7.68 oz
60 gal. Acre		2.13 oz	4.26 oz	6.39 oz

**If you use a 2 gallon batch mix container then divide the calibrated rates into 256 ounces or if you use a 2.5 gallon batch mix container then divide into 320 ounces.**