

Calibrating Your Back-Pack Sprayer (or Power Sprayer Hose Nozzle)

- ✿ Measure out and mark an 18.5' x 18.5' area. This represents 1/128th of an acre.
- ✿ Time how long it takes to spray the area to wet, but not soaked. Hold the wand or nozzle with a comfortable grip.
- ✿ Spray into a bucket, using the same hand pressure or grip, for the same amount of time.
- ✿ Measure the contents of the bucket in ounces.
- ✿ The **ounces** sprayed to cover the 18.5' x 18.5' area equals the gallons per acre you would spray.
- ✿ To calculate for the ounces of herbicide you would need to mix per gallon, divide the recommended rate per acre (in ounces) by the number of gallons per acre you sprayed.
- ✿ Sample: If the recommended herbicide application rate per acre is 5 ounces and your spraying rate per acre is 36 gallons: $5 \div 36 = 0.1389$ ounce per gallon.
 - ✿ One ounce equals 2 Tablespoons, 1 Tblsp equals 3 teaspoons.
 - ✿ You would mix your activator first into a gallon of water in your pack, then add ½ tsp of herbicide into the gallon, then add the surfactant.
- ✿ Activator and surfactant rate recommendations are by volume of water, varying by brand or type, check the label for specifics. Generally, add 1 Tblsp of activator and 1/4 - 1/2 tsp of surfactant per gallon of water.