## Snall Sprayer / Hand Gun Calibration

- 1. Mark off an area 18.5 feet by 18.5 feet.
- 2. Adjust the pressure and spray pattern to be what you would use in the field.
- 3. With water, spray the marked off area <u>while timing yourself</u>.
- 4. Spray into a container for the same amount of time it took you to spray the marked area.
- 5. Measure that volume of water in ounces.
- 6. That number of ounces will be equivalent to the gallons per acre your sprayer is delivering (calibrated rate).

## Note:

- 18.5 X 18.5 Feet is equivalent to 1/128<sup>th</sup> acre. There are 128 fluid ounces in one gallon; therefore, every ounce applied to 1/128<sup>th</sup> of an acre is equivalent to one gallon per acre.
- To determine the amount of chemical to put in your sprayer, use the following formula:

## (gallons of solution) X (rate of chemical) = amount of chemical needed calibrated rate

i.e. One 10 gallon backpack sprayer is calibrated at 50 gallons per acre (gpa) and you want to apply Roundup at 2 quarts per acre.

<u>10 gal</u> X 2 quarts = .4 quarts of Roundup needed 50 gpa

32 fluid ounces per quart X .4 quarts = 12.8 fluid ounces needed

Montezuma County Weed Program 109 W. Main, Room 305 Cortez, CO 81321 (970) 565-0580 weeds@co.montezuma.co.us