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HAMILTON FARM EQUIPMENT

HAMILTON FARM EQUIPMENT CENTER, INC.

1 PATROL STREET, PO BOX 1098
 OKANOGAN, WA 98840
 509.422.3030 TOLL FREE 877.422.3030
www.hamiltonfarmequip.com

Below is from University of Florida <http://edis.ifas.ufl.edu/pdf/files/WG/WG21700.pdf>

Single-nozzle Backpack or ATV Sprayer Calibration

Table 1. A no-math method for calibrating single-nozzle backpack or ATV wand sprayers for spot spraying herbicides.

Step 1	Measure a calibration plot that is exactly 18.5 feet by 18.5 feet.			
Step 2	Spray the calibration plot uniformly with water. Repeat 3 times and record the average number of seconds needed to spray the entire plot.	Time Required	_____	seconds
Step 3	Spray into a clean bucket for the amount of time recorded in Step 2.			
Step 4	Measure the number of ounces of water in the bucket.	Volume Sprayed	_____	Ounces
Step 5	The number of ounces collected from the bucket is equal to the number of gallons per acre the sprayer is delivering.	Output Volume	_____	Gallons/Acre
Step 6	Determine the volume of the spray tank.	Tank Volume	_____	gallons
Step 7	Determine the amount of herbicide to add to the tank from Table 2.	Herbicide/Acre	_____	tsp, tbsp, mL, oz, cups

Table 2. Amount liquid herbicide to add to 1 gallon of water. Abbreviations: tsp=teaspoon, fl oz=fluid ounces.

Volume (GPA)	Recommended Herbicide Rate per Acre				
	1 pint	1 quart	2 quarts	3 quarts	4 quarts
20	5 tsp	10 tsp	3.25 fl oz	4.75 fl oz	6.33 fl oz
30	3 tsp	6 tsp	2 fl oz	3.25 fl oz	4.25 fl oz
40	2.33 tsp	4.75 tsp	1.66 fl oz	2.33 fl oz	3.25 fl oz
50	2 tsp	3.75 tsp	1.25 fl oz	2 fl oz	2.5 fl oz
60	1.66 tsp	3.25 tsp	6.33 tsp	1.66 fl oz	2 fl oz
70	1.33 tsp	2.75 tsp	5.5 tsp	1.33 fl oz	1.75 fl oz
80	1.25 tsp	2.33 tsp	4.75 tsp	7.25 tsp	9.5 tsp
90	1 tsp	2 tsp	2.25 tsp	6.33 tsp	8.5 tsp
100	1 tsp	2 tsp	3.75 tsp	5.75 tsp	7.66 tsp