

Tank Mixing

Only precise amounts of diluent and pesticide product should be added to your tank. Follow these steps when determining your pesticide solution:

Step 1: To determine the amount of pesticide product (often expressed in ounces) to add per gallon of solution, divide the recommended product rate (must be in an amount per acre) by the output (GPA) of your sprayer.

Step 2: It may be more convenient to convert ounces to milliliters (cc's). Simply multiply ounces by 30 to give you milliliters (Table 1).

Amount of pesticide product to add per gallon of solution	=	Product Label Recommendation (per acre)

		GPA (Gallons Per Acre)

By knowing the output (GPA) of your sprayer and recommended product rate (oz/acre), you may reference Table 2 to assess milliliters of product needed in your tank per gallon of solution.

Example: If your sprayer was calibrated at 30 GPA and you need to apply pesticide product at 3 oz. per acre, how much pesticide product do you add to your 500 gallon tank?

Step 1: 3 ounces / 30 GPA = 0.1 ounces per gallon of solution

Step 2: 0.1 oz x 30 = 3 ml per gallon of solution (see Table 2).

Step 3: 3 ml per gallon x 500 gallon tank = 1,500 ml

Table 1. Useful conversions.

Multiply	By	To Get
Acres	43,560	Square Feet
Cups	8	Ounces
Gallons	128	Ounces
Liters	.264	Gallons
Ounces	2	Tablespoons
Ounces	30	Milliliters
Pints	.125	Gallons
Pints	16	Liquid (oz)
Quarts	32	Ounces
Tablespoon	0.5	Ounces

Table 2.

Total product (ml or cc's) to add per gallon of pesticide solution.

Recommended Pesticide Product Rate (oz/acre)							
GPA	1 fl oz	2 fl oz	3 fl oz	5 fl oz	8 fl oz	16 fl oz	32 fl oz
10	3.0	6.0	9.0	15.0	24.0	48.0	96.0
20	1.5	3.0	4.5	7.5	12.0	24.0	48.0
30	1.0	2.0	3.0	5.0	8.0	16.0	32.0
40	0.8	1.5	2.3	3.8	6.0	12.0	24.0
50	0.6	1.2	1.8	3.0	4.8	9.6	19.2
60	0.5	1.0	1.5	2.5	4.0	8.0	16.0
70	0.4	0.9	1.3	2.1	3.4	6.9	13.7