

Spraying Small Volumes

**From: Midwest Small Fruit and Grape Spray Guide, 2009.
B. Bordelon, M. Ellis and R. Weinzierl (eds.) Used with permission.**

In some cases, a grower may wish to apply small volumes of pesticide with backpack or hand-held sprayers or wipers. The following table will help make the conversion from rate per 100 gallons to rate per gallon. Care should be taken to measure pesticide

amounts accurately because errors will be magnified at small volumes. As always, follow safety precautions on the label when handling pesticides.

Equivalent rates of pesticides for different quantities of water.

Formulation	100 gallons	5 gallons	3 gallons	1 gallon
Wettable powder, dry flowable, etc.	5 pounds	15 tablespoons	9 tablespoons	3 tablespoons
	4 pounds	13 tablespoons	8 tablespoons	8 teaspoons
	3 pounds	10 tablespoons	6 tablespoons	2 tablespoons
	2 pounds	8 tablespoons	4 tablespoons	4 teaspoons
	1 pounds	3 tablespoons	6 teaspoons	2 teaspoons
	½ pound (8 oz)	5 teaspoons	1 tablespoon	1 teaspoon
Emulsifiable concentrate, flowable, liquid	5 gallons	1 quart	1 ¼ pints	13 tablespoons
	4 gallons	1 ½ pints	1 pint	10 tablespoons
	3 gallons	1 ¼ pints	¾ pint	8 tablespoons
	2 gallons	¾ pint	½ pint	5 tablespoons
	1 gallon	½ pint	8 tablespoons	3 tablespoons
	1 quart	3 tablespoons	2 tablespoons	2 teaspoons
	1 pint	5 teaspoons	1 tablespoon	1 teaspoon