

MEASUREMENT CONVERSIONS

1 fluid ounce (fl. oz.) = 6 level teaspoons
1 fluid ounce = 2 level tablespoons

1 cup = 8 fluid ounces
1 pint (pt.) = 2 cups = 16 fluid ounces
1 pint = 0.125 gallon

1 quart (qrt.) = 2 pints = 32 fl. ozs.
1 quart = 0.25 gallon
1 quart = 0.946 liter

1 gallon (gal.) = 4 quarts = 8 pints
1 gallon = 16 cups = 128 fl. ozs.
1 gallon of water weighs about 8.34 pounds

1 pound (lb.) = 16 weight ounces (ozs.)
1 pound = 453.6 grams

1% = 10,000 parts per million (ppm)
1% volume/volume = 1 gallon per 100 gallons

1000 parts per million = 0.1 %
1000 ppm = 1 gram per liter

1 acre = 43,560 square feet
209 feet x 209 feet = 1 acre

1 mile = 5,280 feet
1 mile per hour (mph) = 88 feet per minute
Feet per minute x 0.0114 = miles per hour

PESTICIDE OPTIONS FOR BEARING TREES

All suggested uses of pesticides in this publication are dependent on their continued state and federal registration. **ALWAYS READ THE LABEL BEFORE USING ANY PESTICIDE. THE LABEL IS THE LEGAL DOCUMENT FOR THE PRODUCT USE.** Note compatibilities, safety precautions, amounts of material and timing of



sprays. Use accurately calibrated spray equipment. **Always follow label safety precautions and use required protective gear to protect yourself and others when applying pesticides.**

Refer to other sections of this publication for further information on the materials and uses listed here. No attempt has been made to include every pesticide registered for each pest, and no attempt has been made to list pesticides in order of preference. Pesticides are listed as brand name only, unless there are multiple products sold with the same active ingredient, in which case, the pesticide is listed by the most common brand name with the chemical name in parentheses.

The **Amount to use per 100 gallons dilute**

column shows the amount of pesticide formulation to mix into each 100 gallons of water if a "dilute application" is made. Spraying "dilute" means applying a volume of spray water sufficient to make all foliage surfaces wet enough so that the water begins to run off the leaves. If the spray will not be a dilute application (as is usually the case), then the amount of pesticide formulation to add to each 100 gallons of tankmix depends on the spray concentration.

See Part II: *Sprayer Calibration* for help on how to choose and calculate the spray concentration.

Accurate pesticide dosage depends on adjusting the dosage to tree size. For example, if the tree size and spacing is such that the dilute gallons per acre is 250 gallons, then (in most cases) the amount of a pesticide to use **per acre** would be 2.5 times the rate for 100 gallons. If you feel that orchard and application conditions allow it, pesticide dosage can also be further adjusted for concentrate spray application. See "Concentrate Spraying" in Part II: *Spray Strategies* for more information. **It is important to note that some materials require either a minimum amount per acre, or a specific amount per acres regardless of tree row volume**

See page 68 for key to abbreviations.