

# DILUTION TABLES - A GUIDE TO ACCURATE MEASURES

## Wettable Powders

Number of ounces of wettable powder to use in small sprayers when amount per 100 gallons is known.

100 Gals.	10 Gals.	5 Gals.	2 Gals.	1 Gal.
0.5 lb.	0.8	0.4	0.2	0.1
1 lb.	1.6	0.8	0.3	0.2
2 lbs.	3.2	1.6	0.6	0.3
3 lbs.	4.8	2.4	1.0	0.5
4 lbs.	6.4	3.2	1.3	0.6
5 lbs.	8.0	4.0	1.6	0.8

## Emulsifiable Concentrates

Number of fluid ounces of emulsifiable concentrate to use in small sprayers when amount per 100 gallons is known.

100 Gals.	10 Gals.	5 Gals.	2 Gals.	1 Gal.
1 pt.	1.6	0.8	0.3	0.2
1 qt.	3.2	1.6	0.7	0.3
2 qt.	6.4	3.2	1.3	0.6
1 gal.	12.8	6.4	2.6	1.3

## Mist Blower

Quantity of emulsifiable concentrate (EC) needed to make a 25X concentration.

If Amount per 100 Gals. for a High volume Sprays is:	Use This Amount in a Mist Blower for:			
	25 Gals.	10 Gals.	2 Gals.	1 Gal.
1 pt.	6.25 pt.	2.5 pt.	8 fl. oz.	4 fl. oz.
1 qt.	6.25 qt.	5 .0pt.	1 pt.	8 fl. oz.
2 qt.	3.13 gal.	5.0qt.	1 qt.	1 pt.
1 gal.	6.25 gal.	2.5 gal.	2 qt.	1 qt.

## Table of Measures

### Liquids

- 1 level tablespoonful = 3 level teaspoonfuls
- 1 fluid ounce = 2 tablespoonfuls = 29.57 milliliters
- 1 cupful = 8 fluid ounces
- 1 pint = 2 cupfuls = 16 fluid ounces
- 1 quart = 2 pints = 32 ounces
- 1 gallon = 4 quarts = 128 fluid ounces

### Weights

- 1 ounce = 28.3 grams
- 1 lb. = 16 ounces = 454 grams
- 1 ton = 2,000 lbs.

## Rates to Use To Treat One Acre

Pounds Actual Pesticide Per Gallon Liquid Concentrate	Pounds Actual of Pesticide Needed							
	1/4	1/2	3/4	1	2	3	4	
1	2	4	6	8	16	24	32	
1 1/2	1.3	2.6	4	5.3	10.6	16	21.3	
2	1	2	3	4	8	12	16	
4	.5	1	1.5	2	4	6	8	

Pounds Actual Pesticide in Wettable Powder	Pounds of Actual Wettable Powder to Use Per Acre							
	1/4	1/2	3/4	1	2	3	4	
15%	1.75	3.33	5	6.5	13	20	26.5	
25%	1	2	3	4	8	12	16	
40%	.6	1.25	1.75	2.5	5	7.5	10	
50%	.5	1	1.5	2	4	6	8	
75%	.4	.7	1	1.33	2.66	4	5.33	

Percent Actual Pesticide in Dust or Granules	Pounds of Actual Wettable Powder to Use Per Acre							
	1/4	1/2	3/4	1	2	3	4	
2 1/2%	10	20	30	40	80	120	160	
5%	5	10	15	20	40	60	80	
10%	2.5	5	7.5	10	20	30	40	
20%	1.25	2.5	3.75	5	10	15	20	
25%	1	2	3	4	8	12	16	

## Small Gallon Rates

If an insecticide recommendation is given on the basis of 100 gallons of finished spray but only 1 gallon is wanted, the following is a general rule to follow to prepare that 1 gallon of spray:

### Dry Formulations -

For each 1 pound of powder that is recommended per 100 gallons of water, use 1 level tablespoonful (T) per 1 gallon of spray.

### Liquid Formulations -

For each 1 pint that is recommended per 100 gallons of water, use 1 teaspoonful (t) per gallon of spray.