

# Dilution Table For Pesticides Given In Pounds Per Acre

Harry E. Williams  
 Assistant Entomologist  
 University of Tennessee

This dilution table provides an accurate estimate of the amount of concentrate to use when the recommended rate of application is given in pounds per acre.

For effective control of insect, weed, and plant disease pests, it is very important to apply the proper amount of pesticide to the infested area. Also, it is equally important that the recommended rate not be exceeded so that plants and animals are not injured by too much insecticide.

A legal tolerance level for pesticide residues has been established in parts per million (ppm) for all food crops. Only by accurate application of pesticides at recommended rates can residues be kept within these legal tolerance levels.

Follow the label directions and precautions each time you apply a pesticide.

Insecticide Formulation	Amount of Actual Chemical Per Acre Recommended									
	1/8 lb.	1/4 lb.	1/2 lb.	3/4 lb.	1 lb.	1 1/2 lbs.	2 lbs.	2 1/2 lbs.	3 lbs.	
	Amount of Formulation Needed to Obtain the Above Amounts of Actual Chemical									
10% - 12% Emulsion Concentrate (contains one lb. chemical per gal.)	1 pt.	1 qt.	2 qts.	3 qts.	1 gal.	1 1/2 gals.	2 gals.	2 1/2 gals.	3 gals.	
15% - 20% Emulsion Concentrate (contains 1 1/4 lbs. chemical per gal.)	1/3 qt.	2/3 qt.	1 1/3 qts.	2 qts.	2 2/3 qts.	1 gal.	1 1/3 gals.	1 2/3 gals.	2 gals.	
25% Emulsion Concentrate (contains 2 lbs. chemical per gal.)	1/2 pt.	1 pt.	1 qt.	3 pts.	2 qts.	3 qts.	1 gal.	5 qts.	1 1/2 gals.	
40% - 50% Emulsion Concentrate (Contains 4 lbs. chemical per gal.)	1/4 pt.	1/2 pt.	1 pt.	1 1/2 pts.	1 qt.	3 pts.	2 qts.	5 pts.	3 qts.	
60% - 65% Emulsion Concentrate (contains 6 lbs. chemical per gal.)	1/6 pt.	1/3 pt.	2/3 pt.	1 pt.	1 1/3 pts.	1 qt.	2 2/3 pts.	3 1/3 pts.	2 qts.	
70% - 75% Emulsion Concentrate (contains 8 lbs. chemical per gal.)	1/8 pt.	1/4 pt.	1/2 pt.	3/4 pt.	1 pt.	1 1/2 pts.	1 qt.	2 1/2 pts.	3 pts.	
25% Wettable Powder	1/2 lb.	1 lb.	2 lbs.	3 lbs.	4 lbs.	6 lbs.	8 lbs.	10 lbs.	12 lbs.	
40% Wettable Powder	5 ozs.	10 ozs.	1 1/4 lbs.	1 7/8 lbs.	2 1/2 lbs.	3 3/4 lbs.	5 lbs.	6 1/4 lbs.	7 1/2 lbs.	
50% Wettable Powder	1/4 lb.	1/3 lb.	2/3 lb.	1 lb.	1 1/3 lbs.	2 lbs.	2 2/3 lbs.	3 1/3 lbs.	4 lbs.	
75% Wettable Powder	1/6 lb.	1/2 lb.	1 lb.	1 1/2 lbs.	2 lbs.	3 lbs.	4 lbs.	5 lbs.	6 lbs.	
80% Wettable Powder	2 1/2 ozs.	5 ozs.	5/8 lb.	15/16 lb.	1 1/4 lbs.	1 7/8 lbs.	2 1/2 lbs.	3 1/8 lbs.	3 3/4 lbs.	
1% Dust	12 1/2 lbs.	25 lbs.	50 lbs.	75 lbs.	100 lbs.	150 lbs.	200 lbs.	250 lbs.	300 lbs.	
5% Dust	2 1/2 lbs.	5 lbs.	10 lbs.	15 lbs.	20 lbs.	30 lbs.	40 lbs.	50 lbs.	60 lbs.	
10% Dust	1 1/4 lbs.	2 1/2 lbs.	5 lbs.	7 1/2 lbs.	10 lbs.	15 lbs.	20 lbs.	25 lbs.	30 lbs.	