

A. FOLIAR VS. SOIL APPLICATION

FOLIAR NUTRIENT RATE		SOIL APPLIED RATE EQUIVALENT
Sulfur	1 lb.	5-7 lbs.
Nitrogen	1 lb.	10-15 lbs.
Zinc	1 lb.	12 lbs.
Phosphate	1 lb.	20 lbs.
Manganese	1 lb.	20-25 lbs.
Iron	1 lb.	25-100 lbs.
Potash	1 lb.	27 lbs.
Magnesium	1 lb.	28 lbs.
Boron	1 lb.	30 lbs.
Copper	1 lb.	35-38 lbs.
Calcium	1 lb.	35-40 lbs.

Both foliar and soil applied material are in elemental (sulfate) form.
 Information provided by Dr. Carl Spiva, A & L Laboratories, Modesto, California.

B. FOLIAR ABSORPTION RATES FOR NUTRIENTS

Absorption Rates for Nutrients Applied to Plant Foliage (from S. W. Wittwer, Michigan State Univ.)	
	Time for 50% Absorption
Nitrogen (as urea)	½ - 2 hours
Potassium	10-24 hours
Calcium	10-24 hours
Magnesium	10-24 hours
Manganese	1-2 days
Zinc	1-2 days
Chlorine	1-4 days
Phosphorus	5-10 days
Sulfur	5-10 days
Iron	10-20 days
Molybdenum	10-20 days