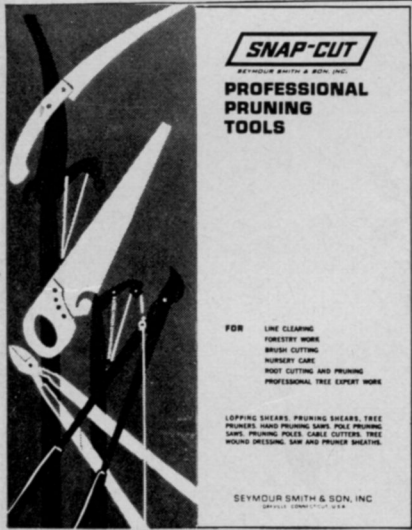


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## 3 Steps to Compute Small Fertilizer Applications

Nurserymen, landscape managers, and others concerned with fertilizing small areas often have difficulty figuring how much fertilizer to use, since the recommended amounts usually are given in pounds per acre. For small areas, the convenient measuring tools are pints, cups, tablespoons, and teaspoons.

The accompanying table will help convert pounds to teaspoons. Conversions shown are not exact, but are accurate enough to serve as a guide in determining the proper amount of fertilizer.

Listed are weights of fertilizers to be applied to areas of 100 and 1,000 sq. ft. Also listed are the equivalent volumes for vari-

ous fertilizer materials applied to 10 and 100 sq. ft. Note that the volume of fertilizer to be applied varies with different materials, even though the weight to be applied is the same. This is because of differing weight/volume ratios. A pint of ground limestone weighs 23 ozs., while a pint of ammonium nitrate weighs approximately 13 ozs.

To use the accompanying table, follow these three steps:

1. Find the desired material.
2. Find the recommended rate per acre.
3. Determine the amount of fertilizer needed for the area to be covered.

For example, if the material

1. Find Material in List Below	2. Find Recommended Rate/Acre	3. Determine Amount of Fertilizer Needed for Your Area			
		Use These Weights:		Use These Volumes:	
Material Grouped by Approx. Weight per Pint	Lbs. per Acre	lbs./100 sq. ft.	lbs./1000 sq. ft.	tbsps./10 sq. ft.	pts./100 sq. ft.
Act. sewage sludge	100	.2	2.3	1.2	.4
Dried blood	500	1.2	11.5	6.0	1.9
Sulfur (10 ozs./pint)	1000	2.3	23.0	12.0	3.7
Ammonium chloride	100	.2	2.3	.9	.3
Ammonium nitrate	500	1.2	11.5	4.5	1.4
Urea (13 ozs./pint)	1000	2.3	23.0	9.0	2.8
Ammonium phosphate	100	.2	2.3	.7	.2
Gypsum	500	1.2	11.5	3.5	1.2
Mixed fertilizers	1000	2.3	23.0	7.0	2.3
Potassium chloride (16 ozs./pint)					
Ammonium sulfate	100	.2	2.3	.6	.2
Calcium nitrate	500	1.2	11.5	3.0	1.0
Mixed fertilizers	1000	2.3	23.0	6.0	2.0
Superphosphate (19 ozs./pint)					
Ground limestone	100	.2	2.3	.5	.2
Potassium sulfate	500	1.2	11.5	2.5	.8
(23 ozs./pint)	1000	2.3	23.0	5.0	1.6
	2000	4.6	46.0	10.0	3.2

Equivalents that can aid conversions:

An acre equals 43,560 square feet (a plot about 209 ft. by 209 ft.).

A pint of water weighs about 1 pound.

A pint equals 2 cups, or 32 tablespoons, or 96 teaspoons.

is ammonium sulfate and the recommended rate is 500 lbs. per acre, use 1.2 lbs. or 1 pt. for a 100-ft. area. To compute the amount to apply of fertilizers not listed, scoop the material loosely into a 1-pt. container and weigh carefully. If the material weighs 16 ozs., for example, use the third block in the chart.

From material prepared by B. A. Krantz, Extension Soils Specialist, University of California, and N. C. Welch, Farm Advisor, San Bernardino County, California.

### Emphasize Basic Research, Campana Tells Penn Treemen

We are rapidly losing time in developing the basic knowledge necessary to solve and prevent problems affecting our trees, Dr. Richard Campana, president of the International Shade Tree Conference, told members of ISTC's Pennsylvania-Delaware Chapter at their recent annual meeting, held in conjunction with the 2nd annual Pennsylvania Shade Tree Symposium, at University Park, Pa.

Though immediate problems of environment, pathology, and entomology have been fairly well met with known methods, priority should go to basic research in arboriculture. Dr. Campana, botany professor at the University of Maine, suggested it is time for ISTC to re-evaluate its purposes and potentials, and for arborists to analyze their profession more deeply.

Beautification, plant selection, care of newly setout trees, and tree evaluation were discussed for the more than 100 arborists attending the tree symposium. Liveliest discussion revolved around the contention of Dr. L. C. Chadwick, ISTC's executive director, that a given tree has a given value regardless of its location. An arborist is qualified to evaluate trees, not real estate, Chadwick pointed out.

Elected '67 president of the Penn-Delaware Chapter was Walter Morrow, Sewickley, Pa. George Maurer, Greenville, Del., and Fred A. Ashbaugh, Delmont, Pa., are vice presidents. Re-elected secretary-treasurer was John Anspach, Bethlehem, Pa.

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