

1976

1. Best application method will be needed.
2. Move research to the streets and roads in the different geographical sections of the country.

The first quarterly report by Dr. Charles L. Wilson of the Shade Tree and Ornamental Plants Laboratory included:

1. First injections were made in June 1974. These trees were topped in April, 1974.
2. Materials used consisted of Cycocet, Slo-Gro, Sustar 2-S, Regim 8, Alar 85, Maintain CF125, and Arest. The trees were photographed and measurements were recorded. Measurements will continue during the growing season to determine the rate of regrowth.
3. A second series of injections were made July 15 to 18. Only three chemicals were used at this time—Main-

tain CF125, Slo-Gro, and Arest, including a set of check trees. All trees were topped prior to injection. 4. The fall activities will include work on 180 elm and 405 silver maple seedlings in the greenhouse.

The next meeting of the steering committee is planned for November 1974. At this time data accumulated over the summer will be evaluated and a plan of action formulated for the growing season of 1975.

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ABSTRACT

Smith, E. M. and K. W. Reisch. 1974. **Fertilizing trees in the landscape — Progress report.** Research Summary 79, OARCD, Wooster, Ohio.

A fertilizer study was conducted in a relatively poorly drained, Blount and Morley silt and Pewamo silty clay-loam area at the USDA Shade Tree and Ornamental Plants Laboratory in Delaware, Ohio. The trees were treated on May 5, 1971. All trees receiving fertilizer treatments also received 6 lb. of actual phosphorus and potassium per 1000 sq. ft. at the time of nitrogen application. The drill hole treatment consisted of 20 holes per tree, 12 inches deep, in two concentric rings covering an area of 100 sq. ft. under each tree. The trees were pruned as needed and the area between the trees was maintained in sod and mowed periodically. On Sept. 18, 1973, after three growing seasons, the caliper of the trees was measured 1 foot from the ground. The results of caliper measurements are shown in Table 1.

TABLE 1. — Effects of Fertilizer Treatments on the Caliper Growth of Three Tree Cultivars 3 Years After Treatment.

Treatment	Linden	Crabapple	Maple Inches	Average Three Cultivars
Control, No fertilizer, No holes	2.0	2.7	2.5	2.4
Holes and S. R. B. - No fertilizer	2.9	3.0	2.8	2.9
3 Lb. N/1,000 sq. ft. - Drill Hole	3.0	2.8	2.9	2.9
6 Lb. N/1,000 sq. ft. - Drill Hole	3.0	3.1	3.2	3.1
9 Lb. N/1,000 sq. ft. - Drill Hole	3.0	3.1	2.9	3.0
3 Lb. N/1,000 sq. ft. - Surface	3.0	2.8	2.8	2.9
6 Lb. N/1,000 sq. ft. - Surface	3.2	3.3	2.9	3.1
9 Lb. N/1,000 sq. ft. - Surface	3.1	3.1	3.1	3.1