

the nutrients that it needs at a minimum cost," he said.

Another tool that can be used in turfgrass maintenance and discussed at the meeting is tissue testing. This test discussed by Dr. N. D. Morgan of the American Potash Institute provides an analysis of tissue content of the plant and is easily done with a kit provided for this purpose.

The tissue test supplements the soil test which gives the nutrient level of the soil while the tissue test shows the plant nutrients being supplied to the plant.

"By use of both of these tools a very close approximation of the plant needs can be determined," said Tripp.

Also appearing on the three-day program were Dr. G. C. Horn of Florida State University, Dr. Vic Sheldon of John Deere Chemical Company, Charles Wilson of Milorganite, and Dr. J. Q. Lynd, Dr. Lester Reed, Dr. Harry Young and Dr. R. V. Sturgeon, all of OSU.

Herbicide Sales Above '63

Sales of herbicides and other plant growth regulators are placed at about 23% of the total potential market, an increase of some 4% from 1963. This figure is indicated in a news release from the National Agricultural Chemical Association, Washington, D. C.

Extreme wet weather in a number of major crop areas of the Middle and Far West was a large factor in creating the increase. Sales of fungicides also show a slight gain of 1% over 1963, to some 15% of the market.

As in previous years, the use of herbicides, including desiccants, defoliant and other plant growth regulators, continues to show a steady increase.

Kans. Treemen Meet Jan. 21-22

A full program presenting the newest information pertaining to tree care and maintenance has been readied for delegates to the Kansas State Shade Tree Conference set for Jan. 21-22 at Manhattan, Kansas.

The conference will meet at Umberger Hall, Kansas State University.

Southern Weed Conference Meets in Dallas, Jan. 19-21

Teaching, research, extension, and industry authorities plan to participate in the Southern Weed Conference program at the Hotel Adolphus in Dallas, Texas, Jan. 19-21. Officials expect almost 900 persons to attend the conference this year.

Taking part in the general session on "Weed Control in the Changing South," will be: Dr. R. E. Patterson, dean and director of the College of Agriculture at Texas A & M University, and Dr. Selz C. Mayo, head of the Departments of Rural Sociology, Sociology and Anthropology at North Carolina State University of North Carolina, Raleigh.

Other speakers will include: Dr. G. M. Shear, Dept. of Plant Pathology and Physiology at Virginia Polytechnic Institute; Tom E. Corley, Dept. of Agricultural Engineering at Auburn University; Turney J. Hernandez, E. I. du Pont de Nemours & Co.; and Southern Weed Conference President R. E. Frans, Dept. of Agronomy, University of Arkansas.

More than 150 papers are scheduled for presentation, covering eight aspects of weed control. Chairmen and major program subjects are:

Weed Control in Agronomic Crops Including Turf and Pastures. Chairman: Paul W. Santelmann, Dept. of Agronomy, Oklahoma State University, Stillwater.

Weed Control in Horticultural Crops. Chairman: Raymond B. Taylorson, Crops Research Division, USDA, Tifton, Ga.

The Control of Weeds and Woody Plants in Forests and Rangelands. Chairman: Orel G. Otwell, Chipman Chemical Co., Pasadena, Texas.

The Control of Weeds and Woody Plants on Utility, Railroad, and Highway Rights-of-Way and in Industrial Sites. Chairman: F. E. Gonzales, E. I. du Pont de Nemours & Co., Atlanta, Ga.

Aquatic Weeds and Special Weed Problems. Chairman: Lyle W. Weldon, Crops Research Di-

vision, USDA, Fort Lauderdale, Fla.

Ecological, Physiological, and Edaphic Aspects of Weed Control. Chairman: Howard L. Morton, Crops Research Division, USDA and Texas A & M University, College Station, Texas.

Extension, Teaching, Regulatory and Public Health Aspects of Weed Control. Chairman: Jon W. Hooks, Elanco Products Co., Columbia, S. C.

Developments from Industry. Chairman: Hoyt A. Nation, The Dow Chemical Co., Wayside, Miss.

New York Arborists Meet In Ithaca, Jan. 17-19

A trade show which will include demonstration of equipment is a feature of the New York Arborists Association winter meeting, scheduled for Jan. 17-19, at the Statler Hotel in Ithaca, N. Y.

A meeting of directors is set for Sunday afternoon, Jan. 17. A general meeting for the membership will follow later in the evening. The association's annual banquet will conclude Monday's program which will begin with the annual business meeting. The banquet is slated for late afternoon.

Three workshops, each undertaking a specific phase of the arborist industry, will be held during the final day of the meeting. Panel discussions on general topics are also on the program.

Arborists Meet in Florida

Important discussions bearing on business, new techniques in the tree service industry, and many other topics of interest will be brought into focus when delegates to the National Arborist Association Winter Meeting assemble Feb. 14-16 in Florida.

Site for the annual event is Guy Lombardo's Port-O-Call Inn, on Tiera Verde Island, near Clearwater, Fla.

Information may be obtained from Dr. Paul E. Tilford, Executive Secretary, National Arborist Assn., Box 426, Wooster, Ohio.