A Threat to Christmas Trees . . .

Researcher Tells How To Control Needlecast

Needlecast of Scotch pine Christmas trees, a disease causing 24 million dollars damage annually for tree growers in Pennsylvania, can be controlled with a fungicide program developed at The Pennsylvania State University.

The disease is caused by a fungus and should be treated about July 20 and again about August 15, according to Dr. William Merrill, associate professor of plant pathology at Penn State. Field studies by Dr. Merrill and associates show that two fungicide treatments will control the disease.

The Penn State scientist

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symptoms develop until the following spring. Then in April the infected needles suddenly turn reddish-brown and fall from the tree during April to June.

Trees sprayed in 1973 have developed no needle browning or needle loss, Dr. Merrill said recently. On the other hand, unsprayed trees are currently undergoing needle browning and needle loss throughout the bottom 50 per cent of the tree, on the average.

Christmas tree growers can obtain information on the proper fungicides to use said the fungus infects the and the rates of application

During July and early August the fungus forms characteristic fruiting bodies on fallen needles. Those structures can be seen with the naked eye. They are black, football shaped, about ½ to 1 millimeter long, and have a slit down the middle.

The disease appears first at the bottom of the tree. It gradually works its way higher up the tree so that after two or three years much of the tree is defoliated

current year's needles in late from county agricultural every spring. After two July and August but no extension agents, he stated. complete defoliations the tree often is killed. Even if the tree is not killed, usually all of the lower branches are killed or the tree appears so sparsely needled that it cannot be sold.

> Needlecast of Scotch pine trees has forced some growers out of business. It has forced many others to shift from Scotch pine to other species such as Douglas fir, the true firs, or the spruces.

> said problems associated

with poor selection and use

of the land are wet

basements, inadequate

sewage disposal, excessive

erosion, cracked foun-

sedimetation. Many of these

eliminated or greatly reduced, he stated, if the

land users understood the

land they selected and ap-

plied corrective measures.

information is now available

for 80 percent of the land in

the Commonwealth. All the

Martin reported that soils

could

and stream

be

Are You Ready

dations,

problems

Pa. Conservationist

Pennsylvania's landscape is changing at a rapid rate as shifts in population make new uses of the land according to State Conservationist Benny Martin. U. S. Soil Conservation Service.

roads, schools, recreation areas.

monwealth. Other factors include strip mining, changes in agriculture and a

Martin said an important can be real problems to home owners, land developers, farmers, and road builders if they are not used correctly.

The state conservationist

Sees Rapid Changes In Land Utilization

Martin said about one-half million acres change from one use to another every year. Nearly 150,000 of these acres are used for new developments which include homes, shopping centers,

Urbanization is one of the major causes of land use changes in the Comsecond home in the country.

Growing Degree Days

In Lancaster, the average temperature for the week was 76 degrees, 2 degrees over the average.

Growing degree days for crops that start at 40 degrees totaled 2422 which was 103 days over the average.

For crops starting at 50 degrees, the days totaled 1418, 79 above the average.

Rainfall for the week was .02 inches and total from April 1, 13.44 inches which is .29 less than average.



Medieval legend talks of a monster who had no head, the eyes and mouth being placed elsewhere.

soils have been rated to show the problems associated with their uses for town and country planning, engineering, woodland, recreation, wildlife, and agriculture. Field offices of the Soil Conservation Service and county agents have the information which is available to the public in all counties in the state.

The soil survey of Pennsylvania is being done by the Soil Conservation Service in cooperation with The Pennsylvania State University and the Department of Environmental Resources.

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to go Whole Hog? factor in selecting land for **CLOSED SATURDAY DURING** new uses is a knowledge of **JULY & AUGUST** the soil. In Pennsylvania, he said, there are over 1.000 **ORGANIC** different kinds of soil. Many BULK BLENDS of the soils, Martin cautions,



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