

found in 17 trees. Over the estate, 29 trees were wired for protection; yet, where the power line, coming from the rear meadows went underground, a large walnut, 100 feet beyond the pole, was severely damaged. This was in a hollow and was the continuation of the built-up charge going straight beyond the last pole."

### John Bean Puts Out New Sprayer-Duster Catalog

Eleven small power sprayers and thirteen models of hand sprayers and dusters are illustrated and described in a new 8-page catalog available from John Bean Division, FMC Corporation.

The small compressed air sprayers and dusters are offered in popular sizes and capacities for a wide range of home or nursery application tasks, says John Bean. The brochure also features the division's new Viking 20-gallon economy sprayer that delivers 1½ g.p.m. at up to 200 lbs. pressure.

Write for Brochure S-04, John Bean Div., 516 Dearborn St., Tipton, Ind. 46072.

### Oak Wilt Control Looks Promising, Says Nair

University of Wisconsin plant pathologist V. M. G. Nair recently revealed that a well-known weed chemical looks promising as a control of oak wilt — a fungus disease that kills forest and ornamental oaks by causing water vessels to plug.

Nair's technique involves injecting an oak with TCPA — a "growth regulator" that changes the type of wood cells — before the tree has been infested with the wilt fungus. Use of herbicides rather than fungicides to control plant diseases is a fairly new concept.

Oaks treated with TCPA don't develop normal xylem or water-

conducting vessels; instead other cells are formed and take over the water transport in the tree. Treated oaks, having no water vessels to become plugged, are not affected by the fungus, says Nair.

The treatment, he explains, does not stop the wilt fungus from entering the tree but restricts its spread and prevents a lethal response by the tree. The oak lays down new sapwood, which buries the fungus and isolates it in the tree.

Cytokinins have also prevented disease development in infected oaks, according to Nair. In this case, he explains, systemic trunk infections arrest the plugging of water-conducting vessels; therefore, water transport continues through the infected tree, and it is able to survive the disease.

### New Seed Packaging Plant

Pacific Supply Cooperative has opened a new grass seed packaging plant in Tangent, Ore., that will mix and package several million pounds of seed annually. Fenn Emerson, manager of the operation, estimates that 98 percent of the packaging will involve seed for lawn grass. The new facility will serve growers of the Willamette Valley in particular, Pacific Northwest people in general.

### Britain Has New Seeder

A mobile tanker unit developed by Colman and Co. (Industrial) of Sudbury, Suffolk, England, quickly and efficiently seeds land along highways. Inside the tanks, which hold from 700 to 2000 gallons the water/seed mixture is constantly agitated to ensure even coverage, according to the company. Although the unit is normally supplied as a trailer, it can also be built as a self-propelled spraying unit.

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