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Circle No. 130 on Reader Inquiry Card
Why do trees in waterlogged soils show signs of wilting as if they are not getting enough water?

A: Excess water replaces oxygen in the soil and the resultant poor aeration impedes water absorption by roots. It also reduces photosynthesis. Many trees produce adventitious roots until they reach maturity, which may help explain why older trees are more apt to die back in waterlogged, compacted or construction-altered soils.

Q: For the past two years the pine trees we had planted along a highway were severely injured by salt applied in the winter. Could you recommend some evergreen trees that would not be injured? (Michigan)

A: All trees are probably injured, but some are more tolerant than others. Evergreen trees listed as salt-tolerant include Austrian pine, Japanese black pine and pitch pine. Evergreen trees listed as salt-intolerant that should not be planted, include Eastern white pine, hemlock and red pine.

Q: What would you recommend for lawns that are growing in high sodium soils?

A: Aside from the possible effects of excess salts which impair the absorption of water and nutrients, a high sodium content causes deaggregation of soil particles, resulting in compaction and a severe reduction in soil aeration and water infiltration. In addition, the availability of certain nutrients such as iron and manganese may be limited, whereas other micronutrients such as boron may become available in concentrations high enough to be toxic.

Sodic soils are usually corrected by amending with sulfur or gypsum (calcium sulfate) which replaces the exchangeable sodium on soil colloids. However, these materials are relatively slow-acting and repeated applications over a period of years may be necessary.

Ideally, the soil should be drenched prior to adding the soil amendment unless the soil is waterlogged and does not drain properly. If the materials are not incorporated, the soil should be watered after the application to move the materials downward into the root zone. After a period of several months, the soil should again be drenched to leach the soluble sodium salts.

Core cultivation will improve the exchange of air and water between the atmosphere and soil and improve the penetration of fertilizers, pesticides and materials being used for the correction of sodic soils. The net effect is to encourage deeper, more extensive rooting less susceptible to environmental stresses.

Until the sodium problem is corrected, particular attention should be given to fertilization since many of the nutrients will be "fixed" as a result of the high sodium content. Soil tests and field plot studies will help determine the special requirements of turf growing in sodic soils.

Q: What can you tell me about the rust disease that is affecting ash trees in the Philadelphia area?

A: Ash leaf rust is caused by the fungus *Puccinia peridermiospora*. The fungus overwinters on the leaves of salt marsh and cord grasses. In midspring, wind-borne spores are carried as far as 100 miles to ash trees and infect leaves, petioles and shoots. Symptoms ofash leaf rust appear in late spring as yellow-orange spots on the upper surface of ash leaves and on petioles and shoots. After about two weeks, yellow-orange cups appear beneath the spots on the under surface of leaves and on other infected tissue. Heavy infestations cause leaf distortion and girdling of petioles and shoots. Early leaf drop is common, often resulting in complete defoliation by midsummer on severely infected trees.

Ash rust is seldom destructive enough to warrant either prevention or control measures. Sulfur sprays are sometimes recommended when trees have been infected for successive years or to protect ash for aesthetic reasons. Contact your local extension service to determine the status of sulfur sprays in your area.

Send your questions or comments to: Vegetation Management c/o WEEDS TREES & TURF, 757 Third Avenue, New York, NY 10017. Leave at least two months for Roger Funk's response in this column.
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Circle No. 169 on Reader Inquiry Card
The current issue of WEEDS TREES & TURF carries meeting dates beginning with the following month. To insure that your event is included, please forward it, 90 days in advance, to: WEEDS TREES & TURF Events, 757 Third Ave., New York, NY 10017.


Northern Michigan Turf Managers Association meeting, Acme, MI, Sept. 15. Contact C. E. "Tuck" Tate, President, NMTMA, 1147 Santo, Traverse City, MI 49684, 616/947-9274.


Central Coast Turf Day, California Polytechnic State University, San Luis Obispo, CA, Oct. 1. Contact Ronald D. Regan, Head, Ornamental Horticulture Department, CPSU, San Luis Obispo, CA 93407, 805/546-0111.


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Major lawn service companies that assisted us in proving Pel-Tech’s high efficiencies and outstanding economies are already applying it confidently. And they’re coming back for more. Cost savings are ranging from 20 to as high as 40 percent against leading competitive products. Exciting? You bet!

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Events from page 114

East Dublin Road, Columbus, OH 43239, 614/846-9456.

International Bedding Plant Conference and Trade Show, Red Lion Inn/Seaac, Seattle, WA, Oct. 4-8. Contact Bedding Plants, Inc., P.O. Box 286, Okemos, MI 48864, 517/349-3924.

Horticultural Tour to China, Oct. 5-18. Contact Lanny E. Walker, Public Relations Director, California Association of Nurserymen, 1419 21st Street, Sacramento, CA 95814, 916/448-2881.

Northern Michigan Turf Managers Association meeting, Pinconning, MI, Oct. 6. Contact C. E. "Tuck" Tate, President, NMTMA, 1147 Santo, Traverse City, MI 49684, 616/947-0274.

Central Plains Turf Foundation/Kansas State University Turf Conference, Manhattan, KS, Oct. 6-8. Contact Dr. Robert Carrow, Kansas State University, Dept. of Horticulture, Waters Hall, Manhattan, KS 66506, 913/532-6170.

Texas Surface Mine Reclamation Workshop, Holiday Inn Airport, San Antonio, TX, Oct. 13-14. Contact Dr. A. Edwin Colburn, Soil and Crop Sciences Department, Texas A & M University, College Station, TX 77843, 713/845-2935.


Florida Turf-Grass Association 29th Annual Conference and Show, Orlando, FL, Oct. 18-22. Contact Beth Eyman, FTGA, 1520 Edgewater Drive, Suite E, Orlando, FL 32804.
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Circle No. 132 on Reader Inquiry Card

Another fine quality-controlled product of Jacklin Seed Company.
Royer model 400 all-hydraulic, diesel powered shredder/mixer processes up to 250 cubic yards of soil or organic materials per hour. Designed by the Environmental Products Division of Royer Foundry & Machine Company, the unit can be used with loaders having buckets as large as 10 cubic yards. The 12' 8" discharge permits stockpiling or direct truck loading. Yet, the shredder/mixer, with its 90 h.p. engine, is designed for over the road travel between job sites.

A patented steel-cleated belt provides four-step continuous processing that shreds, aerates, mixes and automatically separates non-shreddables. An automatic electrically operated control system adjusts the feed conveyor speed to the load on the shredding belt so the machine is always operating a maximum output for the condition of the material being processed, without continuous operator control.

Circle No. 180 on Reader Inquiry Card

Furadan 10 G insecticide has been granted a label by the South Carolina Crop Pest Commission. The Commission issued a Special Local Need Registration to the Agricultural Chemicals Division of Mobay Chemical Corporation which permits soil application of the granules to pine trees for control of the Nantucket pine tip moth.

In early spring, 5 to 7 ounces of Furadan 10 G should be applied to each one inch of basal diameter in young southern pine plantations. Furadan 10 G should be applied to the soil under the drip-line of the trees and incorporated with a suitable device. Pines planted for Christmas trees should be treated two times per year, once in early spring and once in early summer, using 5 grams in the tree's first year, 10 grams in the tree's second year, 15 grams in its third year, and 20 grams in its fourth year. Five grams equals about one-half of a teaspoon.

Circle No. 181 on Reader Inquiry Card

Concrete interlocking pavers with chamfered top edges are ideal for use in snow belt areas. The Interlocking

Continued on page 121

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Snowco's lo-ride suspension system makes loading easy and lowers the center of gravity for maximum stability and safety at legal highway speeds. What's more, the big new 4200 lb. capacity trailer is backed by the reliable Snowco Warranty.

No matter what your hauling needs, Snowco's new top-of-the-line trailer can handle it... at a big 4200 lbs.

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Please send more information on your complete utility trailer line.

Name ____________________________
Organization ______________________
Address __________________________
Phone ____________________________
City ___________________ State ________ Zip ______

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**READER SERVICE INFORMATION CARD**  9-81

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