Grubs. Grub infestation signs are similar to those of billbugs, with drought-like symptoms. Turf can be pulled up like a carpet if damage is severe. If turf-grass is being dug up by vertebrate creatures, such as skunks or crows, grubs might be the cause. All the chemicals listed above will provide control, along with bendiocarb (Turcam), diazinon (not for use on golf courses or sod farms), ethoprop (Mocap) and trichlorfon (Proxol, Dylox).

- Chinch bugs. Like grubs and billbugs, chinch bug damage often looks like drought stress. The chemicals listed for both of these insects will provide control, along with acephate (Orthene), cyfluthrin (Tempo) fluvalinate (Mavrik) and propyl thiophosphosphate (Aspon).

- Sod webworms. Sod webworm damage might first be thought to be a disease, because they cause small brown spots. Eventually, these can spread and become large patches of dead or dying turf. You can sometimes see insect burrows in the soil. Most of the chemicals listed above will help you control sod webworms.

- Helminthosporium leaf spot. This disease is also called "melting out" because the turf will be thin and weak, as if it is actually melting. Excessive nitrogen fertilization can contribute to the disease. Since helminthosporium thrives in damp conditions, try keeping leaf blades as dry as possible by watering early in the morning. Several fungicides control helminthosporium. In addition, there are resistant varieties, including America, Bristol, Eclipse and Kimono.

- Stripe smut. Serious stripe smut infections can kill large amounts of turf in a relatively short time. The first symptoms are light yellow blades. The blades then curl and black stripes appear. Black "soot" can be rubbed off the leaves. Cutting back nitrogen applications to no more than 1/2 pound per 1,000 square feet per month can help keep the disease at bay. It is crucial that the turf be kept moist at all times. While a healthy stand of Kentucky bluegrass will recover after heat- and drought-induced dormancy, it will die if these conditions occur during a stripe smut infection. Drenches of systemic fungicides in early spring or fall can aid in control.

- Dollar spot. The name of this disease is fairly descriptive, with straw-colored round spots about the size of silver dollars as the primary symptom. At first, the leaves have straw-colored bands with reddish-brown borders. Small bleached spots appear, which grow into larger spots. Sometimes you can see white, cobweb-like mycelium. Keep the soil moist and apply adequate nitrogen to diminish the occurrence. Washing the dew off the plants in the morning can also help stop the spread of infection. Many contact and systemic fungicides provide control.

- Stem rust. Rust begins with light yellow spots, which develop into rust-colored pustules. Keep nitrogen levels up to encourage strong growth, provide adequate irrigation and simply mow off the rust-infected tissue. Fungicides can be used if the turf is growing slowly because of prolonged cool, wet weather.

Check with your county agricultural commissioner, extension agent or licensed pest control adviser to find out which chemicals are registered in your state — it will vary. Needless to say, if you are using chemicals for insect or disease control, always follow label directions to the letter.

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California Company
Sods Super Bowl

West Coast Turf Co. of Palm Desert, CA, was selected to provide the turf to resod Joe Robbie Stadium before Super Bowl XXIX last month.

The field had deteriorated since a Rolling Stones concert in November, an AFC playoff game in late December, then the Carquest Bowl on Jan. 2.

The decision to reconstruct the field with 180,000 square feet of 2-inch thick-cut sod was necessary to ensure a solid quality playing surface for the Super Bowl on Jan. 29.

Transporting the sod nearly 3,000 miles from Palm Desert to Miami was handled by team-truck driving using 26 refrigerated trucks.

The Southern California turf company also supplied turf to Candlestick Park to repair flooded turf before a 1993 NFC Championship game and also to the Rose Bowl for Super Bowl XXVII.

Turf Class at UC Davis

The University of California, Davis Extension has scheduled a two-day course that will focus on current techniques and research results pertaining to sports-field turfgrass management. It should be of special interest to athletic-field managers, school- and college-grounds managers, parks and recreation-site managers, horticultural consultants, pest control advisers and other turf professionals. The class will be held April 25-26. The course fee of $175 includes course materials and lunches. For more information, or to register, call (800) 752-0881 within California. Out of state, call (916) 757-8777.

Have Any New Ideas for Old Tires?

Proposals for innovative uses for old tires are being solicited by the California Integrated Waste Management Board, which has $1.3 millions in grant funds available.

The grants — up to $75,000 per project — are for the purpose of diverting tires from landfills by promoting innovative research, new business enterprises and local government programs.
Grants are available for each project that is consistent with evolving technologies and the needs identified by the board. Business development and research grants total $700,000. Primary consideration will be given for the scientific and technical merits of a proposal and its commercial potential.

Types of research projects under consideration this year include theoretical, applied and experimental or pilot-scale.

Local governments are encouraged to submit applications in such categories as public/private partnerships, public education, “amnesty”-day programs, market studies, acquisition of tire-processing equipment and similar programs that divert waste tires from local landfills. A total of $657,023 is available for local-government grants, with a cap of $75,000 per grant. Municipal grants require local-government contributions of 25 percent.

The grants are funded by a 25-cent fee that is assessed for each tire left for disposal with a dealer. For more information, call (916) 255-2577.

RISE Elects 1995 Officers

Three industry representatives were recently elected as officers for the Responsible Industry for a Sound Environment (RISE) governing board for the 1995 fiscal year.

New officers are: chairman, Jan Novak, Monsanto Co./The Solaris Group — San Ramon, CA; vice chairman, Robert Yarborough, Lesco Inc. — Rocky River, OH; treasurer, Tommy Reeves, Oldham Chemicals Co. — Memphis, TN; and past chairman (ex officio), Peter A. Machin, The Anderson’s — Maumee, OH.

In addition, three people were elected to three-year terms to the board: Eugene Johanningsmeier, Turfgrass Inc. — South Lyon, MI; Bill R. Liles, Ciba — Greensboro, NC; and Richard B. Stahl, The O.M. Scott and Sons — Marysville, OH.

Also serving on the RISE board for 1995 are: Ronald Fister, Sandoz Agro Inc. — Des Plaines, IL; Richard G. Holzschu, DowElanco — Indianapolis, IN; Dennis Salettel, Tyler Enterprises — Elwood, IL; James Widman, AgrEvo USA Co. — Kansas City, MO; and Richard Lehman, Rhône-Poulenc Ag Co. — Research Triangle Park, NC.

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February 1995 33
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For many turf managers, large-area topdressers are way too expensive, while “finesse” topdressers are too limited in what they can do. If that’s what you’ve found, The Millcreek Topdresser/Spreader is your answer. First, it’s about 1/3 the price of typical large-area topdressers. No it doesn’t hold 6 cubic yards, but it spreads 2 cubic yards in 7 minutes and will easily topdress a football field in less than a day. It’s safe and simple for a single operator. Plus it’s unsurpassed for spreading compost, grass clippings, infield mix, lime, top soil, de-icing materials and more. With a 10-year guarantee on the floor, you get long-term spreading efficiency and versatility at a price you can handle today. Call for your FREE information.

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Turf Day Planned

Turf Day 1995 returns to the Alameda County Fairgrounds in Pleasanton, CA, April 12. The event, sponsored by Automatic Rain Co. of Menlo Park, CA, includes seminars on design and installation of landscape lighting, irrigation troubleshooting, backflow prevention, pesticide-law update and tree maintenance. In addition, two seminars will be led in Spanish: Safe Usage of Pesticides and Irrigation Troubleshooting.

The Turf Day will also include an outdoor irrigation equipment demonstration and exhibits. For more information, call (415) 323-5161.

Jacobsen Names New President

Philip J. Tralies was recently appointed president of Textron's Jacobsen Division. He replaces Richard D. Miller.

Tralies, 48, is a 17-year veteran of the company, most recently serving as vice president of finance and administration at E-Z-Go Textron in Augusta, GA.


Textron Inc. is a multifaceted company with operations in six business segments: aircraft, automotive, industrial, systems & components, finance and Paul Revere.
Plant Trees for America

Trees help conserve energy. They cool our homes and entire cities in the summer, and slow cold winter winds. Shade trees and windbreaks can cut home utility bills 15-35%.

Trees along rivers and streams help keep the water clean. Trees reduce the risk of flooding. Planted as field windbreaks, they fight topsoil erosion.

Trees provide food, shelter, and nesting sites for songbirds.

America needs more trees

The United States has lost a third of its forest cover in the last 200 years.

Our towns should have twice as many street trees as they have today.

We need more trees around our homes and throughout our communities. We need more trees to protect our farm fields and our rivers and streams. To provide wood for our homes and a thousand products we use every day.

10 Free Trees

Ten Colorado blue spruces, or other conifers selected to grow in your area, will be given to each person who joins the Arbor Day Foundation.

Your trees will be shipped postpaid at the right time for planting in your area, February through May in the spring or October through mid December in the fall. The six to twelve inch trees are guaranteed to grow, or they will be replaced free.

To become a member of the Foundation and receive your free trees, send a $10 contribution to Ten Blue Spruces, National Arbor Day Foundation, 100 Arbor Avenue, Nebraska City, NE 68410.

Join today, and plant your Trees for America!

Get serious about your profession. Complete the membership application below and join STMA today!

Get Serious With STMA

Application for Membership

The Sports Turf Managers Association (STMA) is an organization of professionals representing all segments of the sports turf industry. Our members work to combine the science of growing grass and the art of maintaining sports turf to produce playing fields that are both safe and aesthetically pleasing.

STMA provides members with a variety of benefits, including: Education through regional institutes and conferences; support for sports turf research; facilities tours; a national awards program; access to the STMA National Conference and Exhibition; complimentary subscriptions to Sports Turf Manager and sportsTURFMagazine; and much more.

If you're serious about the sports turf industry, then it's time to become a member of STMA. Join today!

Member Information

Name
Title
Employer
Type of Business
Address
City State Zip
Phone Fax
Signature
Referred by

Membership Category (please check one)

- Professional sports turf facility manager
- Additional members from same facility
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- Additional members from same facility
- Other schools, parks, ext. agents, municipal
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Chicago, IL 60680-9119

For more information, contact STMA Headquarters at 312/644-6610

"Promoting Better and Safer Sports Turf Areas"
Zero-Turn Mower
A new zero-turn rotary mower with a 25 hp engine was recently introduced by The Bunton Co. The new model complements the 20 hp model that was introduced in 1993.
The Kohler engines incorporate an oil cooler to enhance performance and longevity. With the additional power, the units will be able to handle 60-inch cutter decks and grass-collection systems.
The Louisville, KY-based company has produced commercial lawn mowers since the early 1950s.

THE BUNTON CO.
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It's a Screen
The Shaker Buddy Mixer™ is a portable, one-man screening plant that provides quality at an affordable price. Most customers have realized a total payback in fewer than 2,500 yards of topsoil production. The reason is because the mixer is compact — one person can tow it to the job site on a one-ton truck, set it up in two minutes and change the screen in about 10 minutes with hand tools. It processes a yard of material in 20 seconds. The loading height of 6 feet accommodates all skid steers, backhoes, excavators or small-tractor loaders. A Kubota engine supplies its power.

SHAKER BUDDY INC.
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Line Paint
It is an easy-flowing, ready-to-use line paint that gives bright white and longer-lasting lines on all turf surfaces. With no mixing required, it saves time. As an acrylic base, it offers greater grass adhesion than other PVA-based line paints.
Among its advantages are resistance to high weather and separation. The standard color is white, but other colors are available by special order. Available in 25-liter plastic containers, it can be diluted if overmarking is required.

CHARTERHOUSE/EMREX INC.
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New Micronutrients
Five new micronutrients were recently added to the Riverside® product lineup: Microlific™ Manganese EDTA, Microlific Premium (a micronutrient mix with boron and molybdenum), Microlific Iron EDTA, Microlific Iron EDDHA and Microlific Calcium EDTA.
These products are fully chelated, water-soluble, dry formulations recom-
**Sensor System**

The Hydromanager-Remote is the latest addition to the Systematic moisture-sensor product line. It is a moisture-reporting system that is compatible with most other manufacturer’s computerized and “sensor-read” time clocks.

It will access field sensors using existing irrigation wires, not requiring extra or new wires from the clock to sensor locations. It will provide “real-time” moisture-data to the computer or time clock for better irrigation scheduling.

The Remote features a five-year warranty on electronics and a lifetime warranty on the in-ground sensor. Standard features include a custom outdoor cabinet, dedicated power supply and simple installation and operation.

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**Air Tunnel for Big Loads**

The ATH-900 air-tunnel mower increases productivity because it provides a finished appearance in the heavy material and dew-covered grass conditions that are often a reality at parks and other areas of large turf areas.

The air-tunnel mower provides a manicured appearance by immediately lifting cut material from the cutting circles, moving it into the tunnel and discharging it. Cutting heights are adjustable in half-inch increments from 1 to 6 inches.

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**Custom Field Stencils**

Here’s an alternative to the old-fashioned, painstaking “stake-and-string” approach to creating designs on the football field — including team mascots, school logos and slogans. These and many other intricate designs can be converted into a reasonably priced custom stencil. Constructed on durable, flexible plastic for years of use, they will not tear, deteriorate or weather like paperboard stencils. Sizes are custom, too, up to 30 feet by 30 feet. Most stencils can be manufactured and delivered within 10 days.

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