PennLinks creeping bentgrass — working wonders at Wilmington

New bentgrass variety provides a truer putting surface at Wilmington CC.

When David Kroll, CGCS, was dealt the problem of bentgrass deterioration on the greens of this prestigious country club, he called in the experts to help. The greens could not be salvaged, so they were treated with methyl bromide and completely re-greened.

Dr. Joe Duich, Penn State University, suggested seeding with a bentgrass coded PSU 126.

Two and a half years later, the greens look great and with PennLinks' more upright growth pattern, putt like a dream. That experimental variety is now named PENNLINKS, and is available in limited quantities.

Available in limited supply this fall in the re-usable 6 gallon "PENN PAIL."

PennLinks' Oregon certified blue tags qualify for cash awards to qualifying turf organizations for turf research. Call our toll-free number for details.

Marketed by TEE-2-GREEN Corp., PO Box 250 Hubbard, OR 97032 1-800-547-0255 TWX 510-590-0957

Circle No. 174 on Reader Inquiry Card
COVER STORY: IN THE GREEN
For the second year in a row, WEEDS TREES & TURF tackles putting together a list of the 50 largest landscape contracting companies in the country.

All-Pro Landscapers
Rich and Famous

THE EQUIPMENT EVOLUTION
WEEDS TREES & TURF marks its 25th birthday this year. Last month, we looked at the progress of the chemical industry since 1962; this month, it's mowers.

PRE-EMERGENCE WEED CONTROL GUIDE
Dr. Robert Shearman and Dr. Tim Murphy examine pre-emergence weed control tactics on cool-season and warm-season grasses, respectively.

LANDSCAPE EXPO: YEAR TWO
The Landscape Expo has seen exceptional growth in just one year, making it one of the largest industry trade shows. This month, a complete rundown of educational sessions and exhibitors.

YOU CAN PAY ME NOW...
The old oil filter commercial was never more true. By spending a few dollars now on routine equipment maintenance, you won't have to pay a lot more later on repair.

TRAINING SYSTEMS
On-the-job training is the most common method of breaking in a new employee. But it may not be enough.

THE EMERALD NECKLACE
The 19,000 acres of Cleveland's Metroparks System provide a challenge even for 350 peak-season workers.

CLEANING MISS LIBERTY'S HOUSE
Landscape restoration on Liberty and Ellis islands in New York Harbor was not an easy assignment last year. But the National Park Service was up to the task.
YOU CAN'T MAINTAIN A CHAMPIONSHIP COURSE WITH AMATEUR EQUIPMENT.

Turf maintenance is a tough, all-weather, full-time job. That's why so many of America's turf professionals are switching to the high-quality, low-maintenance HIJET® Multipurpose Utility Vehicles from Daihatsu.

HIJET delivers reliable turf-tough performance powered by a whisper-quiet, 3-cylinder, water-cooled engine. You’ll enjoy the maneuverability of rack-and-pinion steering and a super-tight turning radius of only 12½ feet!

The HIJET is so versatile, you’ll be able to do more work with fewer vehicles and haul bigger payloads than your current equipment can handle.

HIJET comes in four body types: Cut-A-Way, Full Cab, Hydraulic Tipper and Hydraulic Liftpick/Tipper. Steel doors with roll-up windows, guard bars, heater/defroster, turf or regular tires, and a restraint cage are all available as either standard or optional equipment depending on the body type you select.

Discover the incredible HIJET for yourself. The coupon below will bring you all the details. Or call 1-800-237-9185 (USA), 1-800-423-6824 (California).

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Designed exclusively for industrial, agricultural and turf maintenance applications. Not certified for on-the-road usage in the United States.

*Classified by Underwriters Laboratories Inc. as a fire hazard only. Type GS industrial truck.
For sale: small businesses

A wave of small business sales marked the end of 1986. The Dec. 31 deadline for pre-tax-reform sales prompted a number of business to "dis-incorporate" themselves before the corporate gains tax rate jumped on Jan. 1.

Several larger public companies converted to master limited partnerships to beat the new maximum tax rate of 28 percent, which no longer includes the 60 percent capital gains exemption. The previous law taxed companies on only 40 percent of their capital gains. Therefore, a company in the 50 percent bracket paid 20 percent of income in taxes. These companies are now subject to the flat 28 percent rate.

The new rate marks the first time in decades that the individual's taxes will be lower than corporate, which is why companies are switching to limited partnerships. In this arrangement, profits and losses pass directly to the owners, avoiding the corporate income tax, and paying only the 28 percent top rate personal income tax on earnings: single taxation at lower rates.

U.S. companies attract foreign investors

Foreign companies have always shown interest in U.S. chemical companies, but never as much as has been shown recently. Since last summer, at least six sales of U.S. companies to foreign companies have occurred. Two of the most recent are the Dutch conglomerate Unilever's $3.1 billion purchase of Chesebrough-Ponds and West Germany's Hoechst AG's $2.7 billion buyout of Celanese.

If pending acquisitions are completed, 20 percent of U.S. chemical interests will be foreign-owned. These include Rhone-Poulenc's recent purchases of Union Carbide's Agichemical Division and a Monsanto plant. If the present trend continues, fluency in a foreign language may be a necessity.

Economist Ned Howenstine, of the U.S. Department of Commerce, predicted that new foreign investment in 1986 would surpass the 1981 peak. In the first nine months of 1986, Europe accounted for 22 of the 26 sales of chemical companies, Japan for two. Europe accounted for 24 chemical purchases in 1985, and 29 in 1984. More sales were expected before the end of 1986.
Insect and mite protection from tee to green.

MAVRIK AQUAFLOW® Insecticide is a broad spectrum insecticide and miticide—in fact, it eliminates practically every problem except divots. MAVRIK goes after pests that live in turf, in shrubs, in trees. It kills chinch bugs, sod webworms, mites, cutworms, leaf feeding caterpillars, aphids, whiteflies, leaf beetles and others.

There has never been a single product that handles so many pests, while being so safe to plants, convenient to use and easy to apply. MAVRIK is a non-restricted material, and it has been tested on more than a hundred ornamental species without a report of any phytotoxicity.

MAVRIK is a water-based flowable, so it's easy to mix. There is little residue and no odor—you can use it Friday afternoon and the members won't get their noses out of joint over the weekend. After a spray has dried, it's easy on bees. And it won't harm bird species.

You won't find the convenience and broad spectrum coverage of MAVRIK in any other product. And since MAVRIK is available at your local distributor, all you have to do is ask for it.
Take Aim on Crabgrass and Goosegrass with Acclaim! 1EC Herbicide Brings High-Technology Down to Earth!

You've heard that Acclaim has had superior performance in turf research tests. Now try Acclaim for yourself!

Acclaim is the most exciting advancement in selective grassy weed control. It's everything you've ever wanted, and more...because Acclaim is unlike anything you've ever used.

**New Chemistry for Superior Performance!**

The revolutionary chemical, fenoxaprop-ethyl, gives Acclaim the power to translocate from the site of contact to the heart of weed growth - without the turf injury problems associated with other postemergence herbicides.

Acclaim also eliminates the problem of unsightly patches caused by dead weeds. When applied thoroughly, Acclaim will cause the weeds to turn pale yellow in 4-10 days. In 12-21 days, leaves turn red or purple. Then, the stems turn black as the entire
weed decomposes, leaving nothing but green!

**Acclaim! Lets You Reseed Fast!**

Fescues and ryegrass can be overseeded immediately following Acclaim application. Bluegrass can be overseeded after 21 days. And mowing just 24-hours after Acclaim application won't reduce efficacy.

**Acclaim! Fits Your Busy Schedule!**

Acclaim goes right to work on grassy weeds from 3-leaves to 5-tillers in size, giving you the time you need to treat thoroughly. When applying Acclaim you can afford to be thorough, because you treat only where weeds appear. And chances are you'll need to do it only once.

**Acclaim!, the Crabgrass and Goosegrass Specialist!**

Whether you have fine or tall fescue, perennial ryegrass, or Kentucky bluegrass grown east of the Rocky Mountains, Acclaim lets you take aim on tough grassy weeds! With Acclaim, you can control crabgrass and goosegrass, barnyardgrass, foxtail species, Panicum species, and johnsongrass...all with the same level of effectiveness.

**Great Turf Deserves Acclaim!**

As a professional, you take pride in having and maintaining lush green turf throughout the season. Well-groomed, weed-free lawns mean fewer call-backs, more renewals, and more referrals for lawn care operators; and for golf course managers—a course people can play at their best. Either way, Acclaim gets you the acclaim you deserve!

Contact your distributor to purchase Acclaim today. Take aim on grassy weeds all season long!
Bright ideas for outdoor sports lighting

A football game under yellow lighting just isn’t as nice as a game under white lights. That’s why most fields are lit with metal halide lights, rather than quartz.

In fact, the Orange Bowl is the only major stadium which still uses quartz lights, according to Charles Lindstrom of Lindstrom Associates, Lincoln, Ill. “It’s important to have several instantaneous-response quartz lights on a field, however, so people don’t panic if the lights go off.” Lindstrom told sports turf managers at the North Central Turfgrass Conference.

Lindstrom says it’s important to take several things into consideration before setting lights up on a field.

• Ask a number of manufacturers to specify the photometrics or lighting array. Photometrics is the lighting level based on how many fixtures are used.

• Decide what wattage level light to use. Lindstrom recommends using 1500-watt bulbs for athletic fields and 1000-watt bulbs for tennis courts.

• Ask the manufacturer about design and placement of poles. Architects and engineers cannot determine this, since it is directly related to the photometrics which varies between companies.

• Get specifications written out based on performance only. This will include the type of foot-candle level, energy consumption and best uniformity. Uniformity is defined by the brightest part of the field divided by the darkest part of the field.

When deciding how to light an athletic field, it’s important to keep in mind what events are played on the field, how many spectators will be sitting in the stands, and whether it will be taped for TV. For example, professional boxing requires more lighting than any other sport because of the vast number of spectators in the audience.

Landscape Expo draws attendees from 36 states

Initial response to the second annual Landscape Exposition, March 3-5 at the O’Hare Exposition Center in Rosemont, Ill., has drawn interest on both a regional and national scale.

Attendee pre-registration already includes representatives from 36 states. They will come from as far away as Massachusetts and California.

Landscape managers from all corners of the industry will attend. The Expo will have more than 225 exhibitors and 30 conference sessions covering a variety of subjects. For a more detailed look at the Expo, which is sponsored by WEEDS TREES & TURF and LAWN CARE INDUSTRY magazines, see page 80 in this issue.

Magazine to start new feature on design

WEEDS TREES & TURF magazine is beginning a new monthly landscape design feature.

This section will consist of three to six color photos of outstanding landscape design/installation jobs completed by companies throughout the country.

WT&T is now accepting color slides of unique or award-winning projects from landscape contractors and designers. Slides will be returned, if requested.

Projects should be submitted in the following categories: use of annuals for spring or fall color; hardscaping (patios, pools); interiorscaping; creative use of shrubs (texture, shape); aquatic scaping; use of native plant materials (prairie, wildflowers); use of “hard” materials (benches, swings); nightlighting; creative use of trees (spring or fall color, shape, texture); fountain design and surrounding landscape; and winterscaping (evergreens, Christmas lights).

Entire projects, which might not fit into a category above, but demonstrate exceptional landscape design, will also be considered.

Each submission must be accompanied by a description of the project. It should be about one typewritten (double-spaced) page long and should include the following: client’s name; designer’s and installer’s names; awards won; what the client wanted to accomplish; how the designer/contractor interpreted the project; problems; types of plants and hard materials used; cost; time it took; and date completed.

Please send entries to: Heide Aungst, WEEDS TREES & TURF, 7500 Old Oak Blvd., Cleveland, OH 44130.