

plan. Don't skimp on the carpeting.

But, of course, no matter what fertilizer you use, you have to start with the best seed. Penncross, Oregon Blue Tag Certified Seed, is the standard of the industry. For thirty-five years it's proven itself through heat, drought, snow and flood as the premium surface for greens, tees and fairways.

Your Scott Tech Rep—a trained agronomist—can help you design a seeding and fertility program to fit your exact floor plan and your budget. Which makes it seem silly to consider

anything else. Because the way we see it, designing a golf course and skimping on the turf is like designing a swimming pool and skimping on the water.



© 1989 O.M. Scott and Sons. *Penncross, Penneagle, PennLinks and Penway blend from Tee-2-Green Corp.

CONSTRUCT from p. 8 tlenecks.

Delays of up to 30 months were reported, though most are delayed 8 to 12 months, according to the survey. Asked to present actual case histories showing the costs of these delays, the architects cited additional costs ranging from \$10,000 to over \$1,000,000. These costs came from additional financing, legal and consultant fees and rerouting the project.

"We have not done a good job of explaining to regulatory agencies, local boards and the general public how golf courses contribute to the quality of life," says Maples. "But we



Lannert



Maples



Fister

must go one step further to work with the EPA and COE to develop guidelines that will help the architect prepare a plan that will be acceptable without a great deal of revision. Key to that, of course, is having national standards on such key issues as wetland mitigation."

On a more optimistic note, Hale Irwin Golf Services has concluded that the environmental impact of typical maintenance procedures is beneficial overall, with minimal run-off of fertilizers and pesticides.

Senior vice president Patrick J. Fister presented the findings of a white paper at

the Golf Development Conference in Washington, D.C. He cited low chemical runoff rates, low topsoil losses, increased wildlife habitat retention/creation and water conservation.

Fister also addressed the international assembly of golf course developers on the development of courses in residential communities.

"I do not see primary home community developments slowing down in 'edge city' areas," Fister notes. "People are willing to commute the extra half-hour to live in that master-plan community. But I've seen it tougher for planned golf courses to get done closer to urban areas where land is prime." □

EQUIPMENT

OPEI draws more lawn/landscape pros

LOUISVILLE, Ky. — Attendance at the Outdoor Power Equipment Institute Expo '90 by professional contractors and mowing companies increased by 124 percent over 1989, according to the organization.

"We zeroed in on (landscapers and mowing companies) this year," says Warner Frazier, president of Simplicity Manufacturing. According to Frazier, a special show announcement letter was mailed to commercial equipment users. Professional buyers were also able to view equipment in more than 40 outdoor commercial exhibits.

The OPEI show, held here every year, is largely attended by equipment dealers and distributors; however attendance is often used to gauge overall interest in power equipment markets.

Data released at the show by Association Research, Inc., shows a projected 4 percent increase in shipments of walk-behind mowers in 1990 over last year. Shipments of rear-engine riding mowers are expected to fall by 8.4 percent this year; shipments of front-engine lawn tractors should realize a 12.7 per-

cent gain. Riding garden tractors will see a modest 0.6 percent increase.

A few products that came to the attention of LANDSCAPE MANAGEMENT are listed below.

- A new mower deck that might be of particular interest to professional mowing companies is Toro's Recycler. The deck's blade and deflector system are designed to cut grass down to fine particles and direct them back into the ground. The company predicts a 38 percent savings in mowing time for those who normally bag clippings.

- The PE 2201 trimmer from Echo is ready for use by the professional market. Equipped with a commercial-duty 21.2 cc engine, the trimmer features an all-position diaphragm carburetor with a purge system for quick easy starts, and an anti-vibration system to reduce user fatigue.

- Shindaiwa's Tornado cutter blade is a low-kick, heavy brush and tree blade. It has only six teeth and an easy feed ramped depth gauge located at the front of each cutter. The gauge reduces kickback and snag, says Shindaiwa, producing faster, easier cutting.

- Kubota celebrated its



Lawn care professionals drove them around the block a few times at the OPEI show, Expo '90, in Louisville, Ky.

100th anniversary during the Expo '90 by adding the W5021-PCC walk-behind mower to its commercial turf-maintenance line.

The mower's 5-hp, 8.91-cu. in. overhead valve engine puts out high torque at low speeds, so it can handle a variety of terrains.

- HMC Green Machine's new hedge trimmer has a two-cycle, 1.4 hp engine.

HMC reports that the trimmer can handle the day-to-day, high-volume use that landscapers require. Two 30-inch counter-oscillating blades made from carbon steel insure professional users of fast, effortless trimming and shaping with a minimum of maintenance. □

INDUSTRY

Chem companies boost education

WASHINGTON — Representatives of several companies that supply chemicals to the lawn care industry have joined forces to better educate those who use their products.

Delegates of several major chemical companies, working under the auspices of the Pesticide Public Policy Foundation (3PF), are working with other green industry organizations to create educational materials for chemical applicators.

The coalition's second meeting will be this month.

continued on page 16

TOUGHEST CATS ON TURF.

Pick the Turfcats® model to tame your toughest mowing schedule.

Mowing days go faster and easier when you turn a Turfcats loose. Choose from two models with a wide-track 4-wheel stance and easy-handling power steering: the C417D, powered by a 16.5-hp diesel; and the C420G, with a 21-hp gas engine. Both engines are liquid-cooled for longer life and quieter performance.

A 3-wheel model is also available to get you in and out of the tight spots: the nimble C318G with an 18-hp air-cooled gas engine.

You can feel the extra power and traction on all Turfcats, delivered by a 2-speed limited-slip transaxle, with power for mowing and traction in low range, and quick transport in high range.

On the slopes, Turfcats hold their ground with wider stance and lower center of gravity. Choose a rotary or flail mower from 50- to 60-inches, or the high production 72-inch deep tunnel deck, that moves clippings out

fast for extra mowing capacity without windrowing or clumping.

All Turfcats models are designed to take the work out of mowing, with a single pedal forward/reverse control and foot-operated hydraulic implement lift.

See your Jacobsen dealer today to find out more about the toughest cats on turf. Attractive lease and finance plans available. Jacobsen Division of Textron Inc., Racine, WI 53403.



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How to keep your acres and acres of earth looking like a little slice of heaven.

Adopt a Mobay fungicide program, and start producing turf that's a cut above.

Start with BAYLETON® Turf and Ornamental Fungicide. It has an unequaled reputation for stopping *dollar spot* while giving you broad spectrum disease control.


In addition, BAYLETON eliminates costly multiple applications. You see, it works systemically, entering the plant and working from the inside. Since BAYLETON won't wash off, it lasts longer.

For *leaf spot*, treat with DYRENE® Turf Fungicide. Quite simply, nothing works better. Plus, the flowable formulation of DYRENE gives you longer residual control than regular contact fungicides. And that adds up to a lower cost per day of control.

Best of all, both BAYLETON and DYRENE have a long history of unmatched performance.

For more information, contact your Mobay distributor or Mobay sales representative. They can set you up with a fungicide program that'll help you keep your acres looking like a little heaven on earth.

Bayleton Dyrene



Treat your fairways with BAYLETON and DYRENE. It keeps your customers from tracking disease up onto your tees and greens, and raises the overall quality of your course.

Apply BAYLETON for broad spectrum control on a wide variety of ornamental plants.

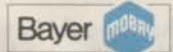
Plant turf varieties that resist diseases in your area. Apply a balanced fertilizer. Aerate, irrigate, and dethatch periodically.



In addition to dollar spot, BAYLETON prevents summer patch, anthracnose, and other major turf diseases.

DYRENE prevents brown patch and leaf spot with excellent residual control.

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COALITION from page 12 where it's expected to review an educational curriculum proposed by a committee made up of applicators, extension agents, and representatives of the Environmental Protection Agency and U.S. Department of Agriculture. Each company will review the proposed curriculum, add to or subtract from it, and meet again to determine how it will be financed.

When complete, the program will be distributed through the Professional Lawn Care Association of America (PLCAA).

The education program will not become a part of existing certification or licensing programs, says Jim Altemus of Monsanto, a coalition spokesman. "What it is meant to do is to provide a level of education below that which is required for licensing or certification. This is the one that says whomever puts their hands on an applicator hose must have at least minimum education about what they're doing."

Companies within the coalition at presstime include Monsanto, Dow-Elanco, American Cyanamid, Rhone-Poulenc, and Ciba Geigy.

"When the program is finished, it's going to be a measurable improvement—a giant step forward for the industry," says Altemus. "It also says good things about the companies involved, that we're willing to find new ways of accomplishing things."

"We're doing something that benefits society as well as protects our right to do business within a market." □

PEOPLE

McClure named new director of pro lawn care association

Ann McClure has been named executive vice president of the Professional Lawn Care Association of America by its Board of Directors. McClure succeeds **James R. Brooks**, who announced his resignation from the organization last month after serving as executive director and executive vice-president for the last seven years.

McClure was most recently executive administrator for The Irrigation Association. Prior to that, she had been director of meetings for the Associated Landscape Contractors of America.

C. Reed Funk, Ph.D., was presented the annual Distinguished Service Award by **Clayton Yeutter**, U.S. Secretary of Agriculture during ceremonies in Washington, D.C. June 13. Dr. Funk, of the Rutgers University State Agricultural Experiment Station, received the award "for distinguished scientific achievements in turf breeding and outstanding contributions to the turf industry and the general public."

Stan Cichuniec and **Dorothy Borland** were honored by the Rocky Mountain Regional Turfgrass Association. Cichuniec, supervisor at Foothills Metro Recreation and Parks District, received the "Distinguished Service Award." Borland,

owner of The Turf Expert, was selected "Turfgrass Professional of the Year."

J. Landon Reeve IV of Chapel Valley Landscape has been presented a plaque for meritorious service to agriculture by Dr. Francis R. Gouin of the University of Maryland. A University of Maryland graduate, Reeve is a past president of three professional nursery and landscape contractor organizations. He is also an advisory board member for the Cer-



McClure



Funk



Borland



Huff

тифициated Professional Horticulturist program in Maryland.

Dr. David R. Huff has joined Rutgers University as a Post-Doctorate Fellow under Dr. Funk. The Michigan native will focus on the reproductive biology of Kentucky bluegrass and fine fescue identification. Huff earned his Ph.D. from the University of California/Davis.

Anne Langhenry has joined **LANDSCAPE MANAGEMENT** magazine as Central States Sales Manager. She was previously marketing and promotions manager for Yamica Corp., Exeter, N.H. Ms. Langhenry will be based in LM's Cleveland, Ohio, office.

W.R. Sauey, chairman of Columbia ParCar, was named "Master Entrepre-



Reeve



Langhenry

neur" in a competition sponsored by Ernst & Young, the accounting, tax and consulting firm. Judged by a panel of Wisconsin business persons, Sauey was one of four entrepreneurs honored.

Martha Lindauer has accepted a position with The Irrigation Association as director of communications with emphasis on the association's legislative program. She had been public relations coordinator for the landscape contractor's association. □

Corrections in Seed Pocket Guide

The seed generation and seed tag values chart appearing in the July "Pocket Guide to Turfseed" contained some inconsistencies:

- 1) The chart should have been labelled "Kentucky bluegrass seed generation and seed tag values," and;
- 2) The chart incorrectly

noted that 2.0% *Poa annua* seed is allowed in certified blue tag seed.

LANDSCAPE MANAGEMENT regrets the errors, which also appear in the source chart in "Turf Manager's Handbook" by Dr. W.H. Daniel and Dr. R.P. Freeborg of Purdue University. □

September 4, 1990

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To Users of Small Diesel Engines

Ladies and Gentlemen:

Deutz Corporation of Atlanta, Georgia, and Ruggerini Motori S.p.A. of Reggio Emilia, Italy, have reached an agreement of importance to Diesel engine users in North America.

Deutz will market, support and service a number of modern, high-speed models out of the Ruggerini product offering especially selected for the requirements of the North American market. This addition extends Deutz' range downward for substantially increased competitiveness in smaller engines.

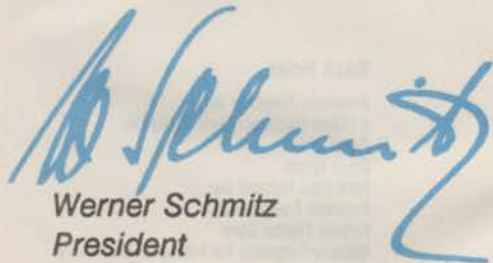
Starting today, the same experienced Deutz crew will offer these engines, product support, engineering and application assistance. Deutz will also provide parts and service availability for Ruggerini engines already operating in North America. We plan to duplicate the track record we have established in the market over the past 30 years.

We would appreciate a chance to tell you what we have to offer in the 4 to 30 HP range.

Thank you.

Sincerely,

DEUTZ CORPORATION



Werner Schmitz
President

P.S.: Fuel efficiency is in again!



LANDSCAPE MANAGEMENT

BUYER'S GUIDE

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1. Equipment

Aerators, Aquatic

Air-O-Lator Corp
Applied Biochemists Inc
Classen Mfg Inc
Giant-Vac Mfg Inc
LESCO Inc
Otterbine/Barebo Inc

Aerators, Soil

Aer-Way
BEFCO Inc
Brinly-Hardy Co
Cushman Inc
Dandi Mfg Co
Dedoes Industries Inc
Deere & Co
Feldmann Engineering & Mfg Co
Gandy Co
Green Care Intl
Green Machine Div of HMC
Hahn Inc
Hendrix & Dail Inc

Hoffco Inc
Jacobsen Div Textron
JISCO
F D Kees Mfg Co
Lawrence Inc
LESCO Inc
Mathews Co
Moyer & Son Inc
Olathe Mfg Inc
Precision Products Inc
Professional Tree & Turf Equipment
Sensation Div Gilson Bros
Steiner Turf Equipment Inc
Tanaka Ltd
Terracare Products Co
Toro Co Commercial Products Div
Toro Co Irrigation Div
Verti-Drain

Aerial Lifts

Arborchem Products Co
Hi-Ranger Inc
Promark Products Inc
Reach-All Inc

Anchors, Earth

A B Chance Co
Foresight Products Inc
Hoffco Inc
Seymour Mfg Co

Aquatic Weed Harvesters

Air-Lec Industries Inc
Hockney Underwater Weed Cutter Co

Augers

Ariens Co
Ditch Witch

Feldmann Engineering & Mfg Co
Hoffco Inc
JISCO
Johnson's Industrial Supply Co
Little Beaver Inc
Melroe Co business unit of Clark Equip
Professional Tree & Turf Equipment
Seymour Mfg Co
Solo Inc
Tanaka Ltd

Backfillers

Bush Hog Div Allied Products Corp
Guest Industries Inc
Ingersoll Equipment Co
Melroe Co business unit of Clark Equip

Back Hoes

American Trencher Inc
J I Case Outdoor Power Equip Div
Deere & Co
Ditch Witch
Ford New Holland Inc
Ingersoll Equipment Co
Kubota Tractor Corp
Massey-Ferguson Inc Industrial Machinery
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Benches

American Playground Corp
Atlantic Construction Fabrics Inc
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Standard Golf Co

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Suggested retail price: \$3,564.00*.

When you can have Cushman quality at a competitive price, there's no reason to accept second best.

The new Cushman GT-1 utility vehicle will outperform and outlast any converted golf cart on the market. Its frame and chassis are stronger and more durable. You'll find a bed

made of 14-gauge steel instead of 16-gauge steel. One-inch axles instead of 3/4-inch axles. And a proven Kohler industrial engine that's more reliable and easier to maintain.

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Equipment

continued

Blades, Mower, etc

Bolens Corp
Bush Hog Div Allied Products Corp
Howard S Crane Inc
Cushman Inc
Dandl Mfg Co
Deere & Co
Deutz-Allis Corp
Excel Industries Inc
Kubota Tractor Corp
Lawn-Boy Inc
LESCO Inc
Massey-Ferguson Inc Industrial Machinery
Omark Industries
Power Lawnmower Parts Inc
Scag Power Equipment Inc

Blades, Dozer/Scraper/Snow

American Trencher Inc
Ariens Co
Bolens Corp
Bush Hog Div Allied Products Corp
J I Case Outdoor Power Equip Div
Howard S Crane Inc
Deere & Co
Deutz-Allis Corp
Excel Industries Inc
Grazer Div M & W Gear Co
Guest Industries Inc
Kubota Tractor Corp
Lawrence Inc
Massey-Ferguson Inc Industrial Machinery
Melroe Co business unit of Clark Equip
Simplicity Mfg Inc
Steiner Turf Equipment Inc
Waldon Inc
Westendorf Mfg Co
Wheel Horse Products Inc
Woods Div Hesston Co

Bleachers

American Playground Corp

Blowers

Ariens Co
Atwater Strong Inc
Billy Goat Industries
Bunton Co
Cushman Inc
Deere & Co
DOB Distributors Inc
Excel Industries Inc
Finn Corp
Giant-Vac Mfg Inc
Green Machine Div of HMC
Hoffco Inc
Homelite Div Textron Inc
Kubota Tractor Corp
Lawrence Inc
LESCO Inc
Maruyama US Inc
Olathe Mfg Inc
Roto-Hoe Co
Salsco Inc
Shindaiwa Inc
Snapper Power Equipment
Solo Inc
Steiner Turf Equipment Inc
Tanaka Ltd
Westheffer Co
Yard Vac Products Inc

Bridges

Continental Mfg
Western Wood Structures Inc

Brush Cutters, Hand Held

Ariens Co
Bunton Co
Deere & Co
DOB Distributors Inc
Green Machine Div of HMC
Hoffco Inc
Homelite Div Textron Inc
LESCO Inc
Maibo Inc
Maruyama US Inc
Seymour Mfg Co
Shindaiwa Inc
Seymour Smith & Son Inc
Snapper Power Equipment
Solo Inc
Tanaka Ltd
Westheffer Co
Yazoo Mfg Co

Brush Cutters, Right-of-Way

Bush Hog Div Allied Products Corp
Howard S Crane Inc
Ingersoll Equipment Co
Kinco Mfg
Kubota Tractor Corp
Mathews Co
R L Parsons & Son ECI AKA The Micro-Mower Co
Rousseau
Seymour Smith & Son Inc
Woods Div Hesston Co

Bucket Lifts

Arborchem Products Co
Guest Industries Inc
Professional Tree & Turf Equipment
Reach-All Inc
Westendorf Mfg Co

Carts, Lawn

Brinly-Hardy Co
Country Mfg Inc
Howard S Crane Inc
Deere & Co
Falkenberg Inc
Gravely International Inc
Ingersoll Equipment Co
Kadco USA



Precision Products Inc
Simplicity Mfg Inc
Westheffer Co
Wheel Horse Products Inc

Chain Saws

Ariens Co
Fairmont Hydraulics Div Fairmont Railway Motors-Harsco Corp

Green Machine Div of HMC
Homelite Div Textron Inc
Maibo Inc
Progressive Power Tools Corp
Shindaiwa Inc
Solo Inc
Stanley Hydraulic Tools
Tanaka Ltd

Chain Saw Parts

Homelite Div Textron Inc
Power Lawnmower Parts Inc
Solo Inc
Tanaka Ltd

Chippers

Arbortech/A Scott Fetzer Co
Badger Chipper Co
Chipmore Mfg Co
Howard S Crane Inc
Duerr Inc
Heckendorn Mfg Co
Lindig Mfg Corp
Olathe Mfg Inc
Professional Tree & Turf Equipment
Promark Products Inc
Roto-Hoe Co
Vermeer Mfg Co

Cultivators

Aer-Way
Ames Co
Ariens Co
BEFCO Inc
Bolens Corp
Bush Hog Div Allied Products Corp
Howard S Crane Inc
Deere & Co
DOB Distributors Inc
Feldmann Engineering & Mfg Co
Gravely International Inc
Green Machine Div of HMC
Hoffco Inc
Homelite Div Textron Inc
Solo Inc
Tanaka Ltd

Dethatchers

Ariens Co
BlueBird International Inc
Brinly-Hardy Co
Brouwer Turf Equipment Ltd
Bunton Co
J I Case Outdoor Power Equip Div
Cushman Inc
Deere & Co
Deutz-Allis Corp
Exmark Mfg Co
Fuerst Brothers Inc
Goossen Industries
Gravely International Inc
Hahn Inc
Hoffco Inc
Jacobsen Div Textron
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