You've Just Spent 540,000 to Build a Green

Now invest \$90 in the right bentgrass seed.

At \$4 to \$7+ per square foot, a 6,000 foot green can cost \$24 to \$50 thousand. No matter how you figure it; design, grading, tiling, gravel, sand and manpower, building a green is the most important part of any course. It would be foolhardy to plant an unproven bentgrass on a whim, or because it's a few cents a pound cheaper. Of course you're going to be cautious when your reputation's on the line. You're going to insist on the stellar new Penn A and G series bents from Tee-2-Green®, developed by Dr. Joe Duich, then tested—and selected—by some of the best superintendents on some of the finest courses in the world.

Or, you won't go wrong with time-proven Penncross, PennLinks or PennTrio blend. With hundreds of thousands of pounds sold around the world since its introduction in 1955, Penncross remains the bestselling bentgrass ever.

Oregon's best and most experienced bentgrass seed producers grow these exceptional creeping bents to the highest certification standards; free of any objectionable weeds.

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Better built greens deserve the better bentgrasses. Insist on the genuine 'Penn Pals'™: Penncross, PennLinks, PennTrio, Penn A-1, Penn A-2, Penn A-4, Penn G-1, Penn G-2, Penn G-6; plus Penneagle, Pennway and Seaside II for fairways.

TEE-2-GREEN®

PO Box 250 Hubbard, OR 97032 USA 800-547-0255 503-651-2130 FAX 503-651-2351 bentinfo@tee-2-green.com

een on a "knife-edge"

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My fairways never looked better or healthier, and my fungicide budget went down, too.

- Bruce Burchfield Fox Run Golf Club St. Louis, Missouri



Our turf is good, we're not sodding, and we're not spending huge amounts of man hours to babysit greens through the stress period.

Wayne Mills
Valencia Country Club
Valencia, California



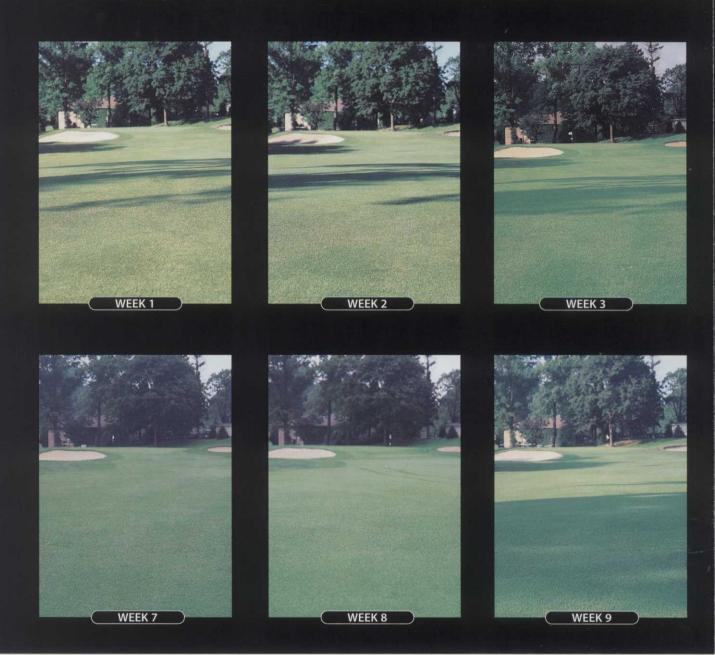






Now You Can Use Less Fungicide Per Application, Cut Your Costs, And Get Greener, Healthier Grass, Too. Just Turn The Page To Find Out How.



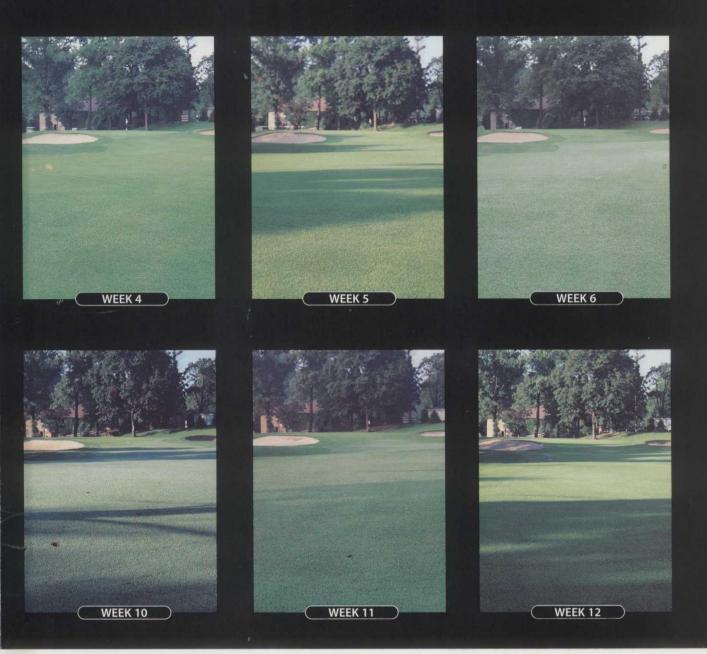


Switch To A Reduced Rate* Daconil U For A Great Looking Course W



Thanks to their unmatched sticking and staying power, Daconil® fungicides have long demonstrated superior broad spectrum disease control at Weather Stik[™] formulation, sticks and stays so well, you can use it at much lower rates* on a regular 7 to 10 day, preventative schedule for even better results.

Sticks And Stays Between Sprays golf courses around the country. Now, more and more superintendents are discovering that Daconil Ultrex fungicide, with its exclusive Super



Itrex[®] Short Interval Spray Schedule Veek After Week After Week.

program stops disease before it can start, and that's one reason this approach makes so much sense.

You also put down less fungicide at any one time, which club members will love. You can eliminate systemics to cut total fungicide use and save money. And above all, you get great looking grass. In fact, we guarantee you'll be happy with the results, or we'll give you enough Daconil Ultrex to respray your course using your old program.[†] Just ask your distributor for all the details. And if you're still not convinced, ask to take the Daconil Challenge, and get enough free product to try this program on a green, tee, or fairway for

an entire season. Daconil Ultrex reduced rate spraying. It could put you on a better course than ever before.



DACONIL ULTREX after a 1/2" rain stress (SEM - 500X)⁺⁺

GENERIC FUNGICIDE

after a 1/2" rain stress (SEM - 550X)⁺⁺

See For Yourself How The Stick And Stay Power Of Super Weather Stik Makes Reduced Rate Spraying Possible.

Scanning electron microscopy of treated plant samples lets you see for yourself just how much better the Super Weather Stik formulation of Daconil Ultrex sticks and stays compared to the generic competition. And it's that stick and stay difference that makes Daconil Ultrex reduced rate spraying possible. So if you're tempted to try a similar program with some generic, just remember that the very thing that makes these reduced rates effective is the very thing generics lack — the sticking and staying power of Super Weather Stik. Of course, with Daconil Ultrex, you also get exceptional handling, superior mixing, and easy packaging disposal with no containers to triple rinse. And remember, too, there's never been a documented case of disease resistance to a Daconil brand fungicide in over 25 years, which means you can continue to count on Daconil Ultrex for top disease control — one more

good reason to put our reduced rate Daconil Ultrex short interval spray program to work for you.



Always follow label directions carefully when using turf and ornamentals plant protection products. @Registered trademark of ISK Biosciences Corporation. "Trademark of ISK Biosciences Corporation." For best results, we recommend using 20% lower application rates on a 7-10 day schedule. Section 12(a)(2)(G) of FIFRA provides that it is unlawful for any person "to use any registered pesticide in a manner inconsistent with its labeling", quoted language is defined in section 2(ee) of FIFRA and expressly excludes the act of "applying a pesticide at any dosage, concentration, or frequency less than that specified on the labeling unless the labeling specifically prohibits deviation from the specified dosage, concentration, or frequency." Thus, in the absence of specific label prohibitions, it is not unlawful under section 12(a)(2)(G) to use a registered pesticide at a dosage, concentration, or frequency less than that specified on the labeling of the pesticide. User must have label in possession when applying these rates. TFor a copy of our Daconil Ultrex Super Weather Stik Guarantee, write to Daconil Ultrex Guarantee, ISK Biosciences Corporation,

Turf & Specialty Products,1523 Johnson Ferry Rd., Suite 250, Marietta, Georgia 30062 †† Micrographs have been colorized for demonstration purposes. a disease management program that rason long.

olutionary water-based microemulsion , new Subdue® MAXX® systemically rely combats Pythium and Yellow Tuft.



You've got Poa on 3.

major turf diseases including Brown Patch and Dollar Spot on fairways. We combine even more protection. Like Alamo? a sys-

d[®] an unstagcontrols Fire

n An entire

Fire Ants on 8.



Summer Patch on 7, 8 and 9.

You may be

managing

your course

one problem

at a time.

ou innovative prov an entire si ral Turt Progra

I the tools ye tee to green one total pro he ultimate



Crabgrass on 6.



Turf Stress on the back 9.



Pythium on 13, 16, 17 and 18.



Dollar apor Summer Patch Anthracnose



And a Board Member on the first tee.

At Novartis, we're committed to continually bring you innovative products. And now we'd like to introduce an entire series of products — the Novartis Total Turf Program.

Finally, all the tools you need to manage your course from tee to green and all season long can be found in one total program.

Primo.® The ultimate foundation for turf.

The Novartis Total Turf Program begins with

Primo for Pre-Stress Conditioning. That's because extensive testing has proven that treating with Primo is the best way to prepare a golf course and strengthen turf in advance to cope with extreme conditions such as drought, heat and dis-

Introducing the Novartis Total Turf Program. The first turf program designed to help you manage the entire course.

Finally, a disease management program that lasts all season long.

In a revolutionary water-based microemulsion formulation, new Subdue[®] MAXX[®] systemically and effectively combats Pythium and Yellow Tuft. Plus, Banner[®] MAXX[®], using the same formulation technology, controls Dollar Spot, Summer Patch and Anthracnose, as well as 15 other turf diseases. For additional protection against diseases, the

> Novartis Total Turf Program also includes Sentinel[®] for the longest-lasting protection against 14 major turf diseases including Brown Patch and Dollar Spot on fairways.

We combine even more protection.

Like Alamo,® a sys-

temic fungicide for the prevention and treatment of Oak Wilt and Dutch Elm Disease.

And for insecticides, there's Award[®] an unstoppable insect growth regulator that controls Fire Ants.

The Novartis Total Turf Program. An entire program to help you manage the entire course.

To start your Novartis Total Turf Program, call 800-395-TURF for the name of your Novartis sales representative or your nearest Novartis distributor.

ease, that make up a typical season.

Barricade.[®] Crabgrass control for the entire season, North and South.

Simply put, Barricade is the longest-lasting and best-performing preemergence herbicide for the control of Crabgrass, Goosegrass and Poa Annua. That's because Barricade has low solubility and volatility, meaning it stays where you put it in the weed germination zone.

Plus, it won't stain your golf course.

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UNOVARTIS

In and stande constance and permainic regizes mixtures. So, ro-matter where you use it or how you ou it, se feacue is making bistory — againt.

THOROUGH WAY TO PROTECT YOUR COURSE.-

Sentine

Fairway Brown Patch

before buying or using these products.



Oak Wilt Dutch Elm Disease



Fire Ant Control



Alamo® Award® Banner® MAXX® Barricade® Primo® Sentinel®

Subdue® MAXX®

SOME PROS EAGLE EVERY HOLE.

In a single stroke, professional golf course superintendents can control dollar spot, leaf spot, spring dead spot, melting out, brown patch, crown rot in fact, more than 15 tough diseases in all. They do it with Eagle® fungicide, one of the tools every pro should have in his bag of tricks.

The test of a real pro comes under pressure. It's the same with a turf fungicide. When the disease pressure is heaviest, when the heat and humidity are highest, that's when Eagle really performs. And its low use rates make it cost effective wherever you use it—from tee to green and inbetween.

As part of a 14-day protectant schedule, Eagle offers unbeatable disease control, exceptional turf safety, and easy handling. With performance like that, it's no surprise so many pros Eagle every hole.

Call 1-800-987-0467 for more information.

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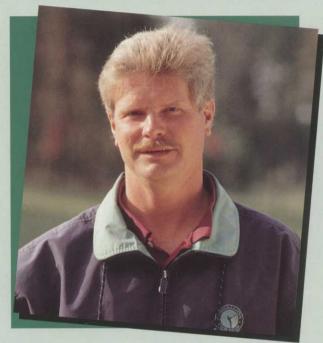




TURF & ORNAMENTAL FUNGICIDE

For top-flight performance.

TIPS FROM A PRO...



The real pros, golf course superintendents like Joseph Kaczmarek of the Medallion Club in Westerville, Ohio, won't recommend *anything* unless they know firsthand that it works. That's why we're proud of what he has to say about Eagle[®] turf fungicide:

"In 1997, I applied Eagle on July 2nd to prevent dollar spot and went until July 23rd before making a second application. It did a great job and helped control brown patch, too. Considering the length of control it got me and what I paid for it, Eagle's cost effectiveness was fantastic."

When you add up all the advantages, like low use rates, cost effectiveness, and broadspectrum control, it's easy to see why Eagle is the hottest tip from the only pros in golf who *really* matter: The superintendents.

Call 1-800-987-0467 for more information.

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"CONSIDERING THE LENGTH OF CONTROL IT GOT ME... EAGLE'S[®] COST EFFECTIVENESS WAS FANTASTIC."





performance.

There was only one good way to With a wide

You see before you a turf maintenance professional's dream-and a photographer's nightmare. Jacobsen is pleased to present a launch

so big, it took two pages to display it. While these eight new machines are the latest to hit the course, they're also direct descendants

of Jacobsen's quality line. Starting with the Greens King[™] Electric Greens Mower, LF-3400 and LF-3800 Lightweight Fairway Mowers

and the HR-9016 Turbo Wide-Area Rotary Mower-four convenient new ways to achieve Jacobsen's signature finish. And if that's not

ture," said Rodgers. "Look for course superintendents to start borrowing tochnologies from the farmer." To facilitate his trigation design business, Rodgers has been using GPS

Cit S, GIS and other digital mapping technologies are now commonly used in numerous land management businesses, and golf course management will be no different Larry Rodgers, president of Larry Rodgers Design in board are Lee Ferry of Finehutst Counity Club (CC), Mike Brennan of LaPlata Investments, Bobby Murtaugh of Perry Park CC, Rusty Oether of Soll Horizons, Doug Jones of file city of Grant Junction, Gregg Blew of Wellshire GC and Doug DeVries of Montrose GC

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wave action that could take out here fairway. The well is doing the job it is intended for," and Pebble Brach Field Supervisor lack Holt

ack Holt. But the first that the bunker Continued on next page

COLF COURSE NEWS







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Pursell's POLYON® is the only controlledrelease fertilizer that isn't affected by excessive rainfall. It releases gradually over time, not overnight. So it virtually eliminates surge growth and excessive clippings.

Other controlled-release fertilizers are affected by heavy rainfall, soil pH and microorganisms. But POLYON's patented 100% polymer coating is free from cheap sulfur fillers, so it ensures against these factors. POLYON releases

100% polymer coating gradually releases nutrients for consistent rain or shine.

who line is efficiency

our stande, it can be linked

10

daily feeding,

MAINTERANCI

Nematodes presenting new challenge in face of Fla. law

Conduced from poge 17 nal label, Grigg said, it didn' work for him hat year under the new restrictions.

"University data shows Nemacur is still the most effective product for nematodes. But show we can't use as much material, its residual effect isn't as good," acknowledged Dr. Greg Pagano field sales represents ive for Baver in Florida.

"We've gone to all-spot treatment." Grigg said. "And I've taken a different approach to the problem. If I can't kill the nematodes, the only thing I can do is increase root growth and try to outgrow them. We've taken to rates of organic fertilizer, trying to increase the bealth of the plant. If you can stimulate cont

"But you have to stav on it. The ultimate answer is it nomebody can breed a variety of grass that nematodes don't like. Severst plant breeders are working on that."

Indeed researchers thought GNI Bermudagrass might have nematode resistance. But they've concluded it is not resistant, but merely an aggressive tupt

"We have evaluated some of these grasses," said Giblin Davis, "and we find sting nematodes like them all."

He did add that some of lite new difficient bermudagrasses have "a more prostrate growing habit. We want a grass that will make a beautial grient coverage below the mowar. If it's adapted to a low moving height, it maximizes its pholosyntactic meas below the mower. That is the strategy: grow glasts with roots that me vigorous but have a more prostrate leaf growth built.

"Some ultradwarfs may be nore tolerant only because hey're not getting their hair cut o drastically. Tifeagle, Quality. Jassic, PF-11 and Tifdwarf all



Fertilizers of the Future PURSELL TECHNOLOGIES www.polyon.com



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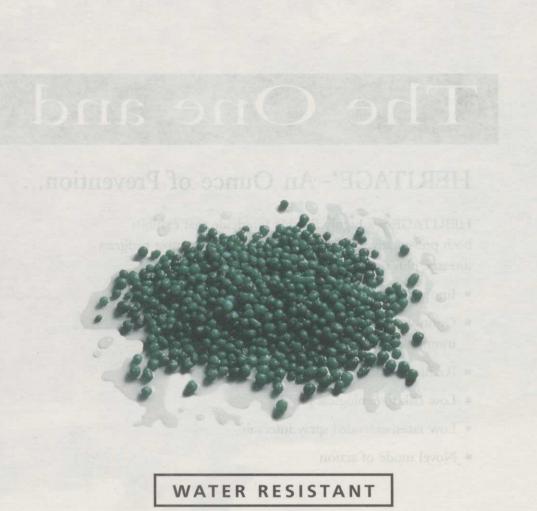
Cibim-Davis endorsed targg s strategy of growing a healthior blant, adding: "We're trying to reduce fit grass within the ex-

It is difficult to "nutrun" nema todes, he said, hecause "they are interested in factor roots, and i you help the feader roots you encourage them as well."

Meanwhile, it appears that microbesia the soil eat Nemacur as a carbon source. L.T. Ou at the University of Florida in Gatnesville has found that if you let the soil go for a year or two without Nemacur, then put Nemacur hack on the soil, the microbes are less apt to take it apart, Giblin-Davis said.

"Nematodes are always part dour [research] screening proess," said Bayer's Pagano. We'd like to have something hot is more benign than demacur. But as we enter this oming season; Nemacur is here. Bayer does believe benacur, properly applied, can

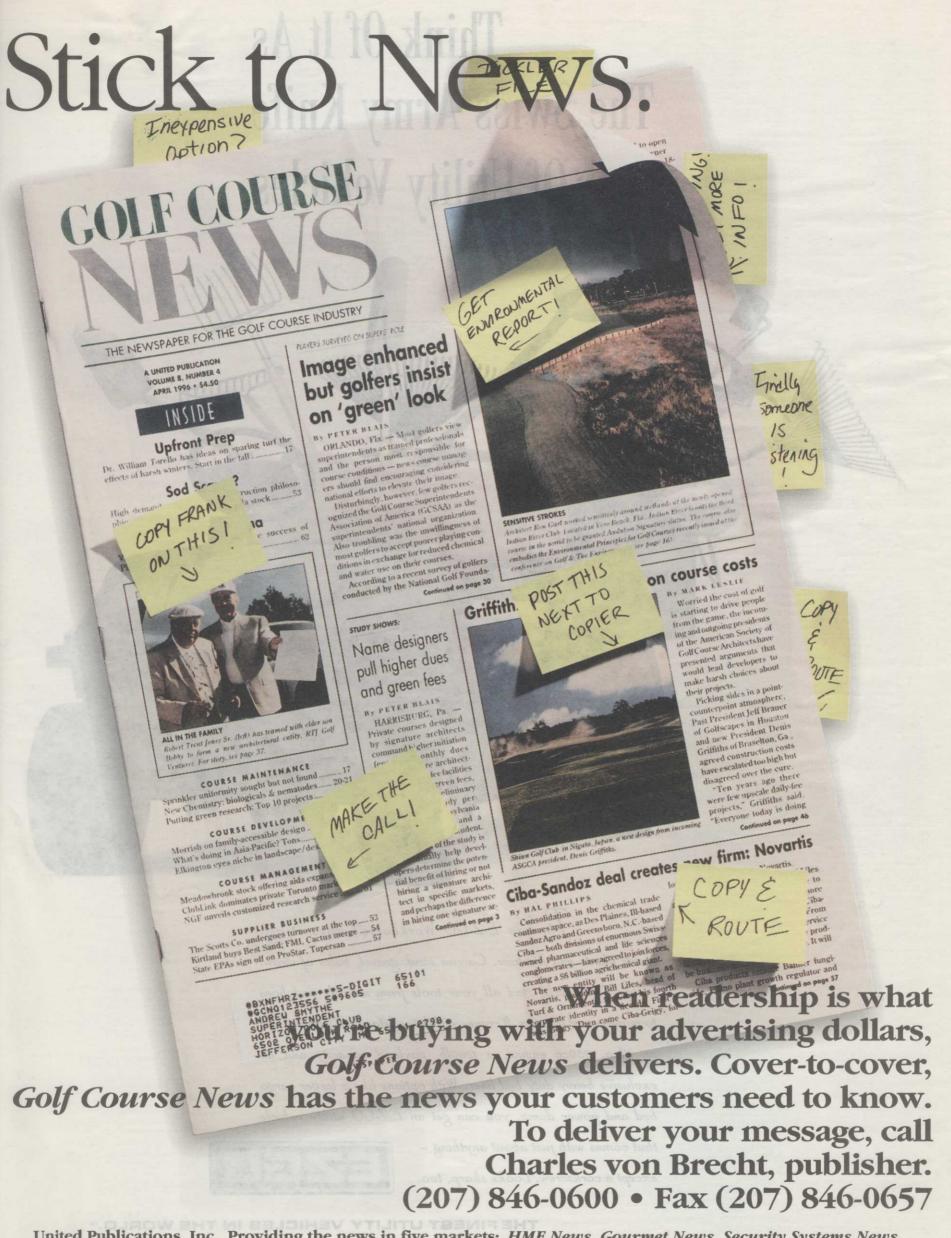
All of this leaves Florida to perintendents scratching ther heads, especially those at older courses, hecasts they here greater problems with neuro formated on motions.



a measured amount of nutrients to your turf each day, as needed. Giving you greener turf for a longer time.

So if you're tired of worrying about your fertilizer being caught out in the rain, try Pursell's POLYON Technology. While you can't always count on the weather, you can count on POLYON fertilizers. Call (800) 334-8583 for the formulator or distributor nearest you.

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