

**PennLinks at
OGA Members Club**

Sylvie,
goose
chaser

Zoe,
goose
spotter

Kirk Kundrick, Superintendent
on 14th green
OGA Members Course at Tukwila
Woodburn, Oregon
July, 2001
William G. Robinson, Architect

A lot of things can happen in seven years—but *Poa annua* in my PennLinks is not one of them.

"For one, I was a younger man when I was grow-in superintendent at the OGA Members Course at Tukwila. Now, I'm married, have two dogs, a cast on my foot, our course has a beautiful new clubhouse, and we've had more than 300,000 rounds played on our PennLinks greens since we opened in August, 1994.

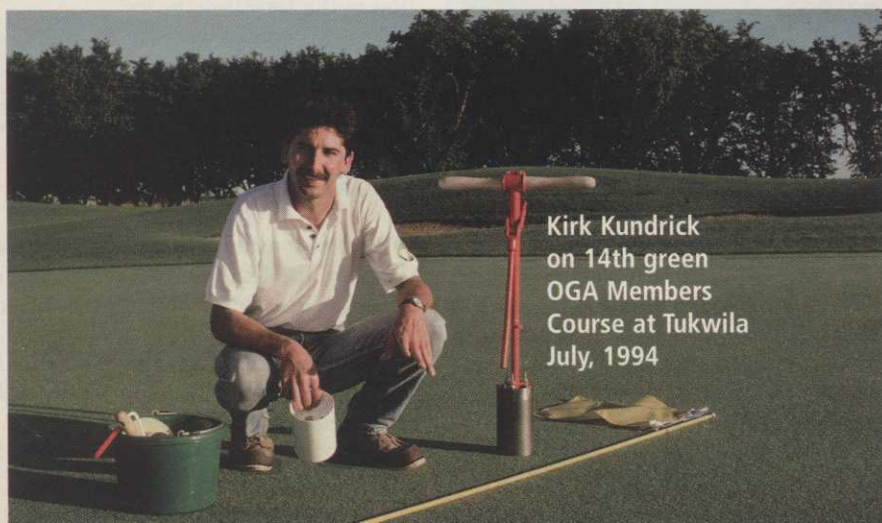
Our crew has managed to control *Poa annua* in our greens even though our public course is surrounded with hazelnut orchards where annual bluegrass thrives under the canopy of trees. To start with, PennLinks is a strong variety with good recovery from daily scars and wounds. When managed consistently with a balanced fertility program, and by aerifying in late May and mid-September—after *Poa annua* backs off the seeding stage—we can keep the nuisance grass in check. We've observed that alternative spikes don't disturb the putting surface, thus providing an ideal seedbed like steel spikes will. When *Poa annua* does occur in our greens, crew members

remove the individual plants with tools we've adapted for the job; like a sharpened screwdriver, weed cutter, and a plugger for stubborn plants. Collars are the buffer between the surrounds and the greens, and have some *Poa annua* growing in them. I plan to re-sod the collars this year to start afresh and stop the threat of encroachment.

We're open year 'round, and have consistently posted more than 44,000 rounds per year for the last seven years. Our PennLinks greens are cut at 0.110 to 0.115" in the summer, and raised to 0.135" in the winter. We strive to maintain country club standards with less than a country club budget.

I may not look as young as I did seven years ago, but our PennLinks greens do. Now if I could get rid of this cast and control those geese, all would be well."

Kirk Kundrick CGCS, Supt.



Kirk Kundrick
on 14th green
OGA Members
Course at Tukwila
July, 1994

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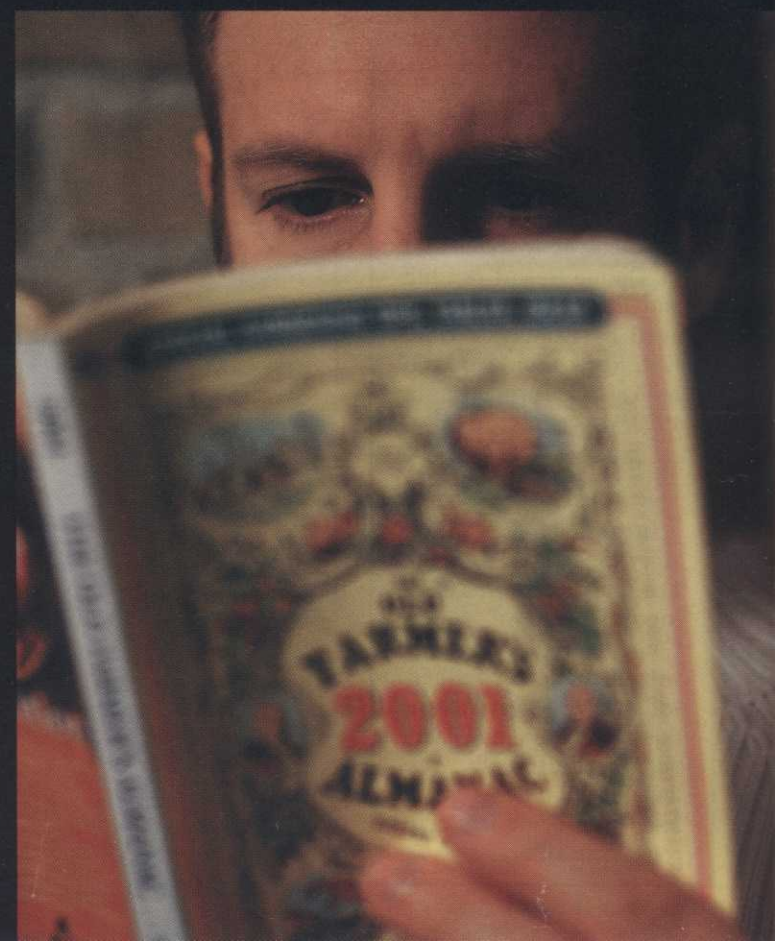
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Golfers spend all winter obsessing about spring. With a dormant application, you won't.



Here's a little secret folks in the Snowbelt have known for years: The microorganisms in Milorganite hibernate during winter. So when you apply it in late fall, before the first snow, it won't start releasing nutrients until the ground thaws. You know, when the course is too wet and soft for heavy equipment. Which means your course will be better prepared for the wear and tear of anxious golfers. For details, visit milorganite.com or call 1-800-287-9645.





HOW QUICKLY WILL YOUR TURF

recover

ONCE THE *snow* IS GONE?

Inside:

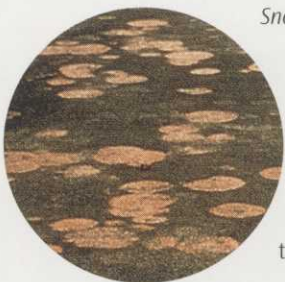
A SNOW MOLD AND WINTER DISEASE PROGRAM FOR EARLY SPRING GREEN-UP.

WINTER STRESS LEADS TO SPRING HEADACHES



Winter Decline is the deterioration of turf quality during the cool season caused by the interaction of disease and stresses. Turfgrass becomes stressed as snow cover, high moisture and low temperatures weaken it. The turf plant then becomes more susceptible to cool-season diseases that further weaken the turfgrass. Disease causes more vulnerability to stresses, which in turn leads to more disease, and the stress-disease-stress cycle continues. By the time temperatures rise and the snow melts, superintendents are often faced with widespread Winter Decline when preparing their courses for spring play.

Snow Mold



Gray and pink snow mold, the main contributors to winter turf injury, are caused by several fungi that thrive on cold, wet turf. Snow mold damage appears as patches of dead turf; repair can take months.

Cool-Season Pythium

Cool-season *Pythium* root rot is difficult to recognize and often mistaken for other diseases. It causes stunted growth and severe rotting of turf roots. And turf exhibits slower, stunted growth and thinning even after treatment.



Other Winter Stresses

Harsh winter weather will cause as much injury to turf as will disease. Turf that has not hardened-off can be damaged when exposed to below-freezing temperatures early in the season. Frost kills foliage, and may cause curling, browning or blackening of leaves. And turf left exposed to cold and windy conditions loses moisture, leading to further damage.

Control Challenges

The fall fungicide application is one of the most important of the year, counted on to keep turf disease-free throughout winter when colder weather and snow cover make applying chemicals nearly impossible.

Because of its complex make-up, snow mold control requires a number of fungicides, and tankmixes usually contain one or more of the three most popular products: 26GT®, PCNB, and Chlorothalonil.

While superintendents have always had to deal with the phytotoxic effects associated with PCNB use, they now must consider new EPA restrictions that have limited Chlorothalonil applications.

Chipco: Proven Solutions for Winter Diseases

Chipco's full line of superior fungicides includes several that manage winter disease and ease turf's transition from cool to warmer weather.

26GT® Fungicide: For 20 years, 26GT and its ancestor 26019 have been the foundation for effective snow mold control. The product trusted by superintendents for fast, effective brown patch and dollar spot management

also provides the most effective, broad-spectrum snow mold control when used as a tankmix foundation. 26GT is also an effective alternative to Chlorothalonil.

ProStar® Fungicide: Proven control of gray snow mold.

Incorporating different chemistries into regular fungicide applications is necessary to reduce risk of resistance. But when it comes to a superintendent's snow mold control program, applying new fungicides can be an unwelcome risk. That's why ProStar, a time-tested fungicide for gray snow mold control, is an effective addition to any program. An excellent tankmix partner, ProStar has exhibited superior control when applied with PCNB. Plus, applying ProStar with 26GT will ensure season-long control of the complete snow mold complex, without affecting turf growth.

Chipco® Signature™ Fungicide: Proven control for cool-season *Pythium* root rot. In trials conducted at Cornell University, for example, Chipco Signature was applied from late September to early October, at 14- and 21-day intervals to *Pythium*-inoculated turf. According to Dr. Eric Nelson, plant pathologist at Cornell, "Chipco Signature is actually one of the better materials we have tested for cool-season *Pythium* root-rot control."

**chipco®
Signature™**

Whatever your program, a pinch of Chipco Signature will improve it.

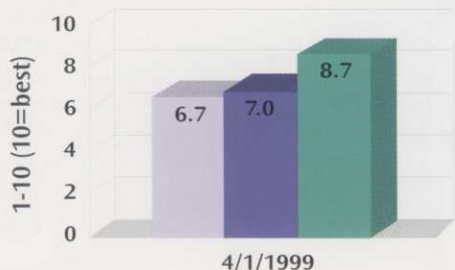
While fall programs for cool-season diseases vary by region and by disease pressure, studies prove that, regardless of the tankmix combination, adding Chipco Signature (at the 4 oz rate) to the tank improves turf vigor and quality as turf transitions out of winter.

Improvement is visible no matter what the tankmix ingredients (see data charts that follow). And, applying Chipco Signature will lessen the phytotoxic effects superintendents have come to associate with PCNB usage, including root damage and turf browning.

Popular Tankmixes

26GT + Chipco Signature
26GT + Chlorothalonil + Chipco Signature
26GT + Chlorothalonil + PCNB + Chipco Signature

Signature/Winter Stress/Turf Vigor



- Check Plot
- 26GT@4floz+Turficide400@8floz
- 26GT@4floz+Turficide400@8floz+SIGNATURE@4oz

Michigan State University

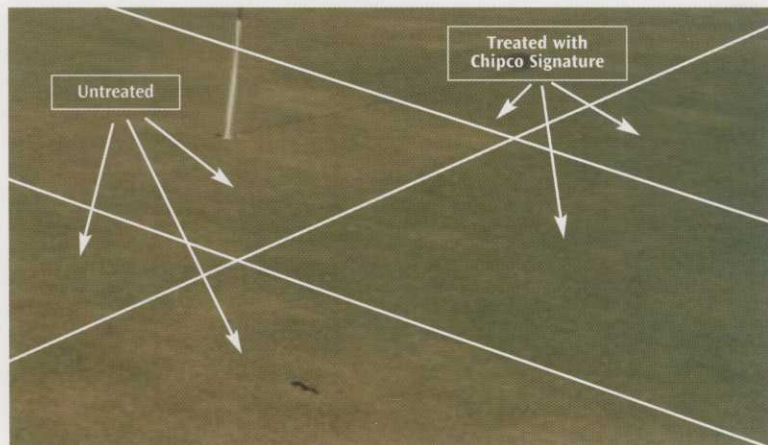
Application:
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Evaluation:
4/1/99

Creeping bentgrass /
Poa annua fairway

All rates per 1,000 sq. ft.

JEM98F43



CULTURAL PRACTICES FOR WINTER DECLINE MANAGEMENT

While fungicide applications are an important component of any disease prevention program, other strategies should be adopted to avoid disease outbreak over the winter. Any effort at preventing Winter Decline should include the following cultural practices:

- Avoid heavy nitrogen applications in late fall
- Mow grass during late fall to reduce canopy buildup
- Prevent large drifts of snow through the use of snow fences and landscape plantings
- Improve drainage, increase aeration and improve sunlight exposure where feasible
- Reduce compaction by restricting walking and common snow sports on important turf areas
- Repair snow mold damage by raking affected patches and lightly fertilizing in early spring

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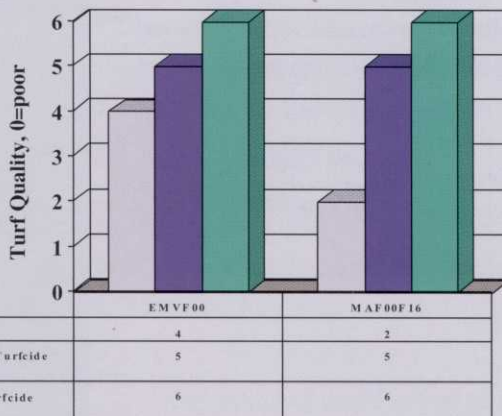
Winter Decline / Wisconsin / 2000

2 Trials: EMV00F00 &
MAF00F16

F00:
Application =
11/4,12/6/00
Evaluation = 3/21/01

F16:
Application = 10/13,
11/3/00
Evaluation = 4/8/01

Cooperator: University
of Wisconsin



Winter Decline / Turf Quality / PNW / 2000

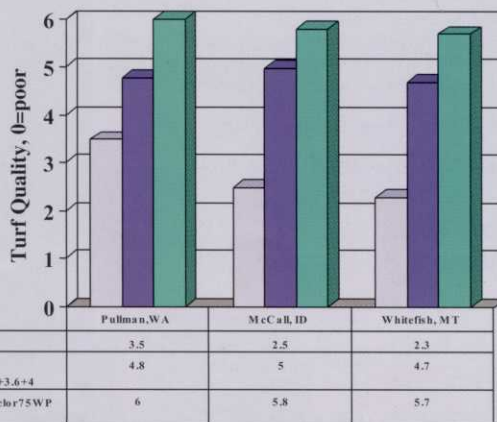
Trial: HCO00F10

Cooperator: Washington
State University

Pullman:
Application = 12/1/00
Evaluation = 3/1/01

McCall:
Application = 10/26/00
Evaluation = 4/30/01

Whitefish:
Application = 10/26/00
Evaluation = 4/30/01



The company behind the control



We encourage you to try the Chipco line of outstanding products as you develop your fungicide application strategy this fall. And feel free to call your local Chipco sales representative with any further questions about winter disease control.

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1 My primary title is: (check one only)

- ☐ A. Golf Course Superintendent
- ☐ F. Course Owner
- ☐ L. Golf Course Management Company Executive
- ☐ B. Green Chairman/Grounds Director
- ☐ C. Director of Golf/Head Pro
- ☐ D. Club President
- ☐ E. General Manager
- ☐ K. Assistant Superintendent
- ☐ G. Builder/Developer
- ☐ H. Architect/Engineer
- ☐ I. Research Professional
- ☐ Z. Others allied to field: (please specify)

2 My primary business is: (check one only)

- ☐ 21. Public Golf Course
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- ☐ 24. Municipal/County/State/Military Golf Course
- ☐ 25. Hotel/Resort Course
- ☐ 29. Other Golf Course (please specify)
- ☐ 30. Golf Course Management Company
- ☐ 31. Golf Course Architect
- ☐ 32. Golf Course Developer
- ☐ 33. Golf Course Builder
- ☐ 39. Supplier/Sales Rep
- ☐ 99. Other (please specify)

3 Number of holes:

- ☐ A. 9 holes
- ☐ B. 18 holes
- ☐ C. 27 holes
- ☐ D. 36 holes
- ☐ F. More than 36 holes
- ☐ Z. Other (please specify)

4 Total annual maintenance budget:

- ☐ 1. Under \$50,000
- ☐ 2. \$50,000-99,999
- ☐ 3. \$100,000-249,999
- ☐ 4. \$250,000-499,999
- ☐ 5. \$500,000-749,999
- ☐ 6. \$750,000-1,000,000
- ☐ 7. Over \$1,000,000

5 Annual capital expenditure:

- ☐ A. Under \$100,000
- ☐ B. \$100,000-249,999
- ☐ C. \$250,000-500,000
- ☐ D. Over \$500,000

6 Purchasing involvement: (check all that apply)

- ☐ 1. Recommend equipment for purchase
- ☐ 2. Specify equipment for purchase
- ☐ 3. Approve equipment for purchase

Please send *Golf Course News* to the following colleagues at my firm:

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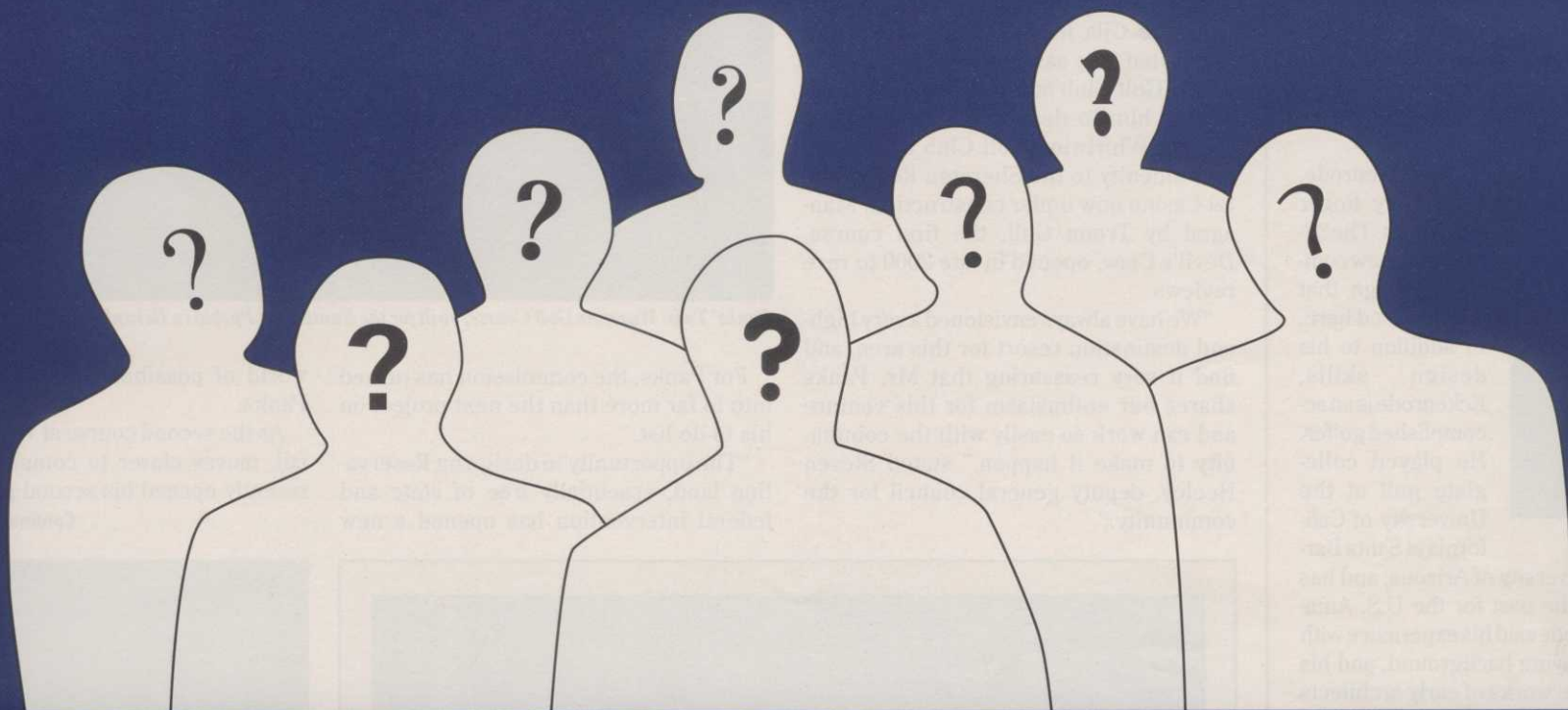


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