

pression is the most practical management approach.

**Management strategies**

- 1) Core aeration, deep watering, and proper fertilization make symptoms less obvious.
- 2) Use wetting agents to improve water infiltration.
- 3) Remove soil to a depth of 18 inches and replace with fresh soil or use a soil fumigant to sterilize the soil.

**Nematodes**

Nematodes are microscopic unsegmented roundworms. A small group of nematodes can damage turfgrasses. They feed on turfgrasses by puncturing plant cells with a hollow, tube-like structure, and then injecting enzymes into the cells. Nematodes can damage turfgrasses by themselves, or in conjunction with an infectious fungus.

Above-ground symptoms of nematode damage include:

- ▶ wilting under moderate

moisture stress;

- ▶ slow recovery of wilted turf after rain or irrigation;

- ▶ thinning or gradual decline of turf.

Because nematodes are not distributed evenly in soils, damage rarely appears in uniform areas. Roots damaged by nematodes are usually short and dark colored, with few lateral or 'feeder' roots. They may be rotted because of secondary fungal activity. Sometimes the root tip is swollen. The damaged root system will not hold soil together when a core or plug is lifted.

**Management strategies**

- 1) Use clean seed or sod and topdressing soil.
- 2) Clean equipment of all dirt, especially when moving from an area infested with nematodes.



Rust in a zoysiagrass lawn. The disease thrives in under-nourished turf.

- 3) Irrigate more frequently to compensate for reduced root systems.

- 4) Nematicides reduce nematode numbers but don't completely eradicate them from the soil. **LM**

*The author is extension plant pathologist, Texas A&M University at Dallas. Watch for her article on disease control in warm-season ornamentals in the June LM. Photos by Janell Johnk.*



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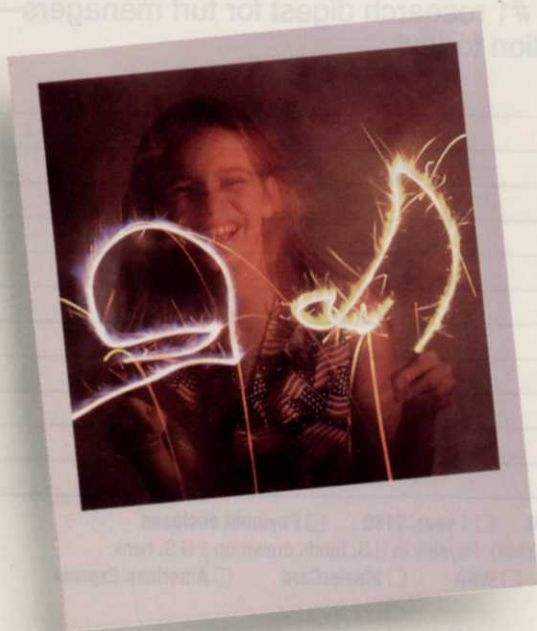
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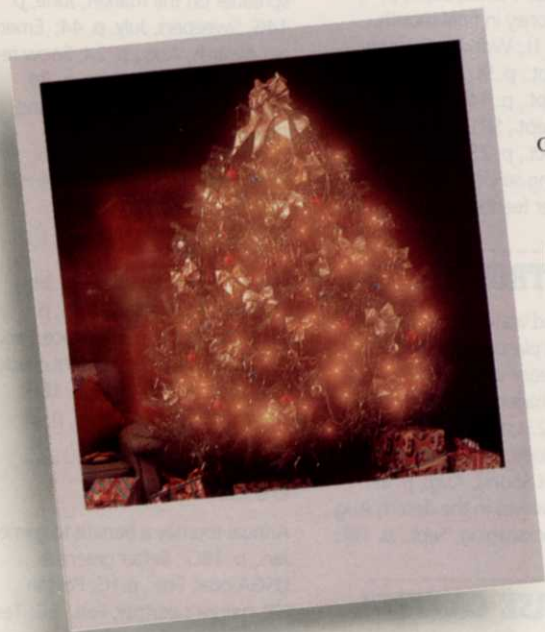


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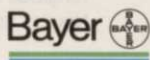


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A 'G' after a page number indicates the article appeared in our *Golf demographic issues*; an 'L' indicates an article appeared in our *Landscape/Grounds demographic issues*.

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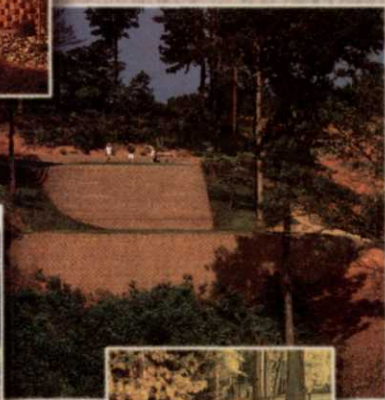
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*The following writers contributed articles to LANDSCAPE MANAGEMENT during 1997. The editors greatly appreciate the efforts of these many fine contributors!*

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**AERATORS, SOIL**

AerWay  
Agri-Fab Inc  
AmeraTurf  
America Turf  
BlueBird Intl Inc  
Broyhill Co  
Classen Mfg Inc  
Dalton Cooper



**John Deere**

Emrex Inc  
Ferguson Mfg Co  
First Products Inc  
Gandy Co  
Gearmore Inc  
Goossen Industries



**YOUR NEXT MOWER**

**Grasshopper Co**

Gravelly Intl  
Green Care Intl  
Greensmiths Inc  
Hoffco/Comet Inc  
Innovative Landscapes Inc  
Jacobsen Div of Textron Inc  
JRCO Inc  
F D Kees Power Equipment LLC  
Kenyon Tools Div Malco Products Inc  
LaBarge Equipment Co  
Landscapers Supply  
Lely Pacific Inc  
LESCO Inc  
Ben Meadows Co  
MEPCO  
Millcreek Mfg Co  
Miltona Turf Products  
Palmor Products  
Parker Sweeper Co  
Power Trac  
Ransomes Cushman Ryan  
Rogers Innovative Inc  
Sisis Inc  
SouthAg Inc  
Steiner Turf Equipment Inc  
Terracare Products Co  
Toro Co  
**Turfco Mfg Inc**  
TURF-R-ATOR  
Western Nutrients Corp



**Woods Equipment Co**  
Yeager-Twose Equipment Div

**AQUATIC AERATORS**

Aerators Inc  
Air-O-Lator Corp  
Aquamaster Fountains & Aerators  
AquaScape, A Toro Partner  
Aquatic Biologists Inc  
CLEAN-FLO Laboratories Inc  
Enviro-Reps Intl  
Horizon Golf  
Innovative Landscapes Inc  
LESCO Inc  
Otterbine Barebo Inc  
SGD Co  
Western Nutrients Corp

**AQUATIC FOUNTAINS**

Aerators Inc  
Air-O-Lator Corp  
Aquamaster Fountains & Aerators  
AquaScape, A Toro Partner  
Aquatic Biologists Inc  
Greenscape Pump Services Inc  
Homeland Irrigation Center  
Horizon Golf  
Innovative Landscapes Inc  
Otterbine Barebo Inc  
SGD Co

**AQUATIC OZONATORS**

Otterbine Barebo Inc  
RGF Environmental Systems Inc

**AQUATIC WEED HARVESTERS**

Air-Lec Industries Inc  
Hockney Underwater Weed Cutter Co  
Midwest Rake Co

**AUGERS**

Carlson Industries  
Clements Assocs Inc  
Danuser Machine Co  
Dingo Digging Systems  
Gearmore Inc  
Hoffco/Comet Inc  
Innovative Landscapes Inc  
Lowe Mfg Co  
McMillen Div  
Ben Meadows Co



**Melroe Co/Bobcat**  
MEPCO



NEW HOLLAND

**New Holland North America Inc**

OLYMPYK Tilton Equipment Co  
Protech Tool Supply Inc  
RedMax  
Seymour Mfg Co  
Stanley Hydraulic Tools  
STIHL Inc  
**Tanaka/ISM**  
Thomas Equipment Ltd  
Tilton Equipment Co

**BACKFILLERS**

Dingo Digging Systems  
Shindaiva  
SouthAg Inc

**BACKHOE ACCESSORIES**

Dingo Digging Systems  
Gearmore Inc  
JCB Inc  
Kelley Mfg Corp  
Schutt's Marvel Diggers

**BACKHOES**

ATI Global Inc BRADCO Div  
Bush Hog  
Ditch Witch  
Gearmore Inc  
Glenncorp Inc  
Greensward Engineering Co  
HCC Inc  
Ingersoll Equipment Co  
JCB Inc



**Kubota Tractor Corp**  
Lely Pacific Inc



**Melroe Co/Bobcat**  
**New Holland North America Inc**  
Power King Products  
Power Trac  
Simplicity Mfg Inc  
Thomas Equipment Ltd

**BATTERY CHARGERS**

American Pride Golf Products  
Barco Products Co  
Geiger Enterprises Div  
Lester Electrical of NE Inc  
Ben Meadows Co  
Neoterik Health Technologies  
Smithco Inc

**BLADES, DOZER/SCRAPER/SNOW**

AGCO Allis Lawn & Garden Equipment  
Agri-Fab Inc  
BCS America Inc  
Bush Hog  
Dixon Industries Inc  
Fisher Engineering



**YOUR NEXT MOWER**

**Grasshopper Co**

Grazer Div/Ingersoll Equipment Co  
Hiniker Co  
Ingersoll Equipment Co  
Jacobsen Div of Textron Inc  
Koyker Mfg Co  
Land Pride Div Great Plains  
Landscapers Supply  
Massey Ferguson Lawn & Garden Equipment  
MTD Products Inc  
Power King Products  
Power Trac  
Simplicity Mfg Inc  
SouthAg Inc  
Steiner Turf Equipment Inc  
Western Products  
Zipper-Ts Mowers

**BLADES, MOWER**

Alamo Industrial  
**John Deere**  
Innovative Landscapes Inc  
Landscapers Supply  
LESCO Inc  
McLane Mfg Inc  
MTD Products Inc  
Prime Line Power Equipment  
Quail Valley Farm Inc  
Quality Aftermarket Mfg & Dist Inc  
J Thomas Distributors  
Zipper-Ts Mowers

PRODUCTS/SERVICES

**BLOWERS,  
LEAF/LITTER**

Billy Goat



**John Deere**

Dolmar USA  
Echo Inc  
Goossen Industries  
Green Machine by John Deere  
E L Hilts & Co  
Husqvarna Forest & Garden  
Ingersoll Equipment Co  
Innovative Landscapes Inc  
Jacobsen Div of Textron Inc  
Landscapers Supply  
LESCO Inc  
Little Wonder  
MacKissic Inc  
Makita USA Inc  
Maruyama US Inc



**McCulloch Corp**

Ben Meadows Co  
MTD Products Inc  
Parker Sweeper Co  
PeCo Inc  
Professional Tree & Turf  
Equipment  
RedMax  
Robin Outdoor Products  
Salsco Inc  
Saxon Turf Equipment Div  
Wolfe Metal Fab Inc  
Selbro Inc  
Shindaiwa  
Solo Inc  
SouthAg Inc  
Steiner Turf Equipment Inc  
STIHL Inc  
**Tanaka/ISM**  
Tilton Equipment Co  
Toro Co  
Vandermolen Corp



**Walker Mfg Co**

**BLOWERS, MIST**

Aeolus Inc  
Friend Mfg Corp  
Ben Meadows Co  
OLYMPYK Tilton Equipment Co  
RedMax  
Smucker Mfg Inc  
Solo Inc  
Tilton Equipment Co

**BLOWERS, MULCH**



9281 LaSalle Drive, Fairfield, Ohio 45014  
Phone (513) 874-2818 Toll Free (800) 543-7186  
Fax (513) 674-2814

**Finn Corp**

Goossen Industries  
PRS Materials Inc  
**Rexius Express Blowers**  
Shred-Vac Systems  
STS Equipment

**BLOWERS, STRAW**

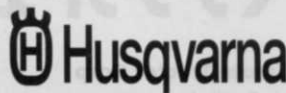
Bowie Industries Inc  
**Finn Corp**  
Goossen Industries  
Landscapers Supply  
Parker Sweeper Co  
Reinco Inc & Reinco Mulch  
Binder Corp  
Salsco Inc  
Shred-Vac Systems  
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**BORING EQUIPMENT**

bor-mor Inc  
Dingo Digging Systems  
Ditch Witch  
Line-Ward Corp  
McLaughlin Mfg Co  
Ben Meadows Co  
RedMax  
Stanley Hydraulic Tools  
**Turfco Mfg Inc**

**BRUSH CUTTERS,  
HAND HELD**

**John Deere**  
Dolmar USA  
Echo Inc  
Fiskars Inc  
Green Machine by John Deere  
Hoffco/Comet Inc  
Homelite Sub Deere & Co



Husqvarna Forest & Garden  
Landscapers Supply  
LESCO Inc  
Makita USA Inc  
Maruyama US Inc



**McCulloch Corp**  
Ben Meadows Co  
Northeastern Assocs

OLYMPYK Tilton Equipment Co  
RedMax  
Robin Outdoor Products  
Seymour Mfg Co  
Shindaiwa  
Solo Inc  
Stanley Hydraulic Tools  
STIHL Inc  
**Tanaka/ISM**  
Tilton Equipment Co  
Vandermolen Corp

**BRUSH CUTTERS,  
RIGHT-OF-WAY**

Alamo Industrial  
Billy Goat  
Bush Hog  
Gearmore Inc  
Land Pride Div Great Plains  
Lindig Corp  
Ben Meadows Co  
Roof Equipment Mfg Co  
Yeager-Twose Equipment Div

**CARTS, LAWN**



303 W. Raymond Street  
Sullivan, IL 61951  
Tel: 217-728-8388 • Fax: 217-728-2032  
[www.agri-fab.com](http://www.agri-fab.com)

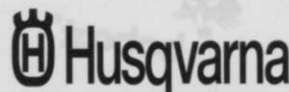
Agri-Fab Inc  
BlueBird Intl Inc  
Club Car Inc



**John Deere**  
E L Hilts & Co  
Husqvarna Forest & Garden  
Kadco USA Inc  
Lambert Mfg Corp  
Ben Meadows Co  
Ransomes Cushman Ryan

**CHAIN SAW  
ACCESSORIES/PARTS**

W E Chapps Inc  
Clinton Engine Corp  
**John Deere**  
Dolmar USA  
Echo Inc  
Green Machine by John Deere  
Homelite Sub Deere & Co



Husqvarna Forest & Garden

Innovative Landscapes Inc  
Landscapers Supply  
Makita USA Inc



**McCulloch Corp**

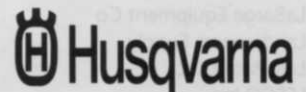
Ben Meadows Co  
Northeastern Assocs  
Professional Tree & Turf  
Equipment  
Quality Aftermarket Mfg & Dist  
Inc  
RedMax  
SenDEC Corp  
Shindaiwa  
STIHL Inc  
J Thomas Distributors  
Tilton Equipment Co

**CHAIN SAWS**



**John Deere**

Dolmar USA  
Echo Inc  
Green Machine by John Deere  
Greensward Engineering Co  
Homelite Sub Deere & Co



Husqvarna Forest & Garden  
Innovative Landscapes Inc  
Landscapers Supply  
Makita USA Inc



**McCulloch Corp**

Northeastern Assocs  
OLYMPYK Tilton Equipment Co  
Professional Tree & Turf  
Equipment  
Quail Valley Farm Inc  
RedMax  
Shindaiwa  
Solo Inc  
Stanley Hydraulic Tools  
STIHL Inc  
**Tanaka/ISM**  
Tilton Equipment Co

PRODUCTS/SERVICES