

## Key to Some Ectotrophic Root-Infecting Fungi Associated with Patch Diseases

- I. Anamorph characteristics
  - A. Maximum growth rate < 6 mm/day at 25°C
    1. Phialospores produced in culture
      - a. Spores < 20 µm long ..... *Phialophora graminicola*
      - b. Spores > 50 µm long ..... *Ophiophlaenella herpoteichia*
    2. Phialospores not produced
      - a. Aerial mycelium rose quartz on potato-dextrose agar, usually turning light brown to gray as the colony ages ..... *O. agrostis*
      - b. Aerial mycelium white to buff, darkening as the colony ages ..... *O. lauriae* or *O. normandii*
  - B. Maximum growth rate > 6 mm/day at 25°C; phialospores produced in culture
    1. Hyphopodia strongly lobed ..... *Gaeumannomyces graminis* var. *graminis* or *P. radicicola*
    2. Hyphopodia unlobed or slightly lobed
      - a. Conidia 5–14 µm long ..... *G. graminis* var. *avenae* or *G. wingovossii*
      - b. Conidia 3–8 µm long
        - 1) Black mycelial crusts (swollen hyphal cells) on the surface of older cultures ..... *G. incurvatus*
        - 2) Mycelial crusts absent ..... *Magnaporthe poae*
- II. Teleomorph characteristics
  - A. Heterothallic; asci unitunicate
    1. Ascospores 4–6 µm in diameter, three-septate, intermediate cells brown ..... *M. poae*
    2. Ascospores 2–4 µm in diameter, three- to five-septate, all cells hyaline ..... *G. incurvatus*
  - B. Homothallic
    1. Asci unitunicate
      - a. Ascospores mostly > 100 µm long, five- to 11-septate ..... *G. graminis* var. *graminis*
      - b. Ascospores mostly < 105 µm long
        - 1) Numerous long, black hairs projecting from perithecial wall; ascospores 36–75 µm long, mostly five- to eight-septate ..... *G. wingovossii*
        - 2) Perithecia without black hairs; ascospores mostly 80–105 µm long, three- to five-septate ..... *G. graminis* var. *graminis*
    2. Asci bitunicate
      - a. Ascocarp neck < 100 µm long
        - 1) Ascospores mostly 140–180 µm long, 12- to 16-septate ..... *O. herpoteichia*
        - 2) Ascospores mostly 75–150 µm long, six- to 15-septate ..... *O. agrostis*
      - b. Ascocarp neck > 190 µm long
        - 1) Ascospores < 100 µm long ..... *O. normandii*
        - 2) Ascospores > 100 µm long ..... *O. lauriae*

## Dead Spot

Dead spot, also known as bentgrass dead spot and bermuda-grass dead spot, is a disease of young stands of *Agrostis* and hybrid *Cynodon* turf grown in soil mixes with a high sand content on golf greens and tees in the United States. The pathogen has been observed in the spring on *Poa trivialis* that was overseeded into *Cynodon* greens. Dead spot may develop on older greens that were planted after fumigation of the soil with methyl bromide. The disease is not known to affect turfs grown in native soils.

### Symptoms

In close-mown *Agrostis* on golf greens and tees, dead spot initially appears as small reddish brown spots (Figs. 225 and 226), approximately 0.5 in. (1 cm) in diameter, which enlarge to about 3.5 in. (8 cm) in diameter. In the early stages of disease development, the spots are reddish brown or copper-colored and look like ball-mark injury. As the disease progresses, grass in the center of a spot turns tan, while leaves in the outer edge of the spot appear reddish brown (Fig. 227). Rings of dead grass with living turf in the center (frog-eyes) may occur but are uncommon. Roots and stem bases of dying plants are discolored or necrotic. Patches may be distributed throughout a green or may be localized. The spots generally do not coalesce, except in severe cases. They sometimes form depressions or pits in the putting surface. The spots recover very slowly; stolon growth into dead patches appears restrained or inhibited. Foliar mycelium is not observed in the field, but a white to pale pink mycelium may develop on leaves of diseased plants incubated under high humidity for three to five days. Numerous



Fig. 225. Dead spot of *Agrostis stolonifera* on a golf green, caused by *Ophiophlaenella agrostis*. (Courtesy J. E. Kaminski)



Fig. 226. Dead spot of *Agrostis stolonifera* on a golf green, caused by *Ophiophlaenella agrostis*. (Courtesy J. E. Kaminski)

# Compendium Of Turfgrass Diseases

**Peter H. Dernoeden**



## **Compendium Of Turfgrass Diseases:**

**Compendium of Turfgrass Diseases** Richard W. Smiley, Bruce B. Clarke, Peter H. Dernoeden, 2005      Compendium of Turfgrass Diseases Lane P. Tredway, Maria Tomaso-Peterson, James P. Kerns, Bruce B. Clarke, 2023 Since publication of the first edition in 1983 nearly 50 000 copies of *Compendium of Turfgrass Diseases* have been distributed to six continents and translated into three languages The compendium has consistently held best selling status across its three editions Many advances in turfgrass pathology have occurred since publication of the third edition in 2005 calling for a revised edition Approximately half of the fourth edition text is new or revised and more than 200 new high quality figures have been added including disease symptom images photomicrographs pathogen drawings and disease cycle diagrams *Compendium of Turfgrass Diseases* Fourth Edition is a thorough resource on turfgrass diseases their pathogenic causes and their effective management The editors combined experience which exceeds 100 years paired with contributions from 23 U S scientists and specialists ensures the utmost accuracy While previous editions focused on diseases of cool season grasses grown in northern temperate climates this fourth edition also emphasizes warm season turfgrass diseases which will benefit scientists and practitioners in all climates The new edition covers approximately 75 diseases and abiotic disorders with detailed descriptions of characteristic symptoms and causal agents The cycle and the epidemiology of each disease are described with emphasis on the conditions that stimulate disease development helping to prevent disease altogether The compendium is organized into four parts infectious diseases noninfectious agents disease management and disease diagnosis Topics include turfgrass characteristics the damage caused by noninfectious agents in the turfgrass ecosystem the ecology and taxonomy of fungi pathogenic to turfgrasses research based integrated management approaches emphasizing the use of resistant cultivars or species cultural management practices and proper timing of fungicide application when necessary and basic diagnostic procedures      *Compendium of Turfgrass Diseases* Richard W. Smiley, 1983 Noninfectious diseases Infectious diseases Ecology and taxonomy of pathogenic fungi Disease control strategy Disease diagnosis      **Compendium of Turfgrass Diseases** Smiley Richard W. (Prep.), 1987      **Turfgrass Diseases and Associated Disorders** Catherine A. York, 1998 This work gives concise information on the major insects pests and fungal diseases of sports turf and amenity grassland which occur in western Europe For each pest and disease a full description of characteristic symptoms environmental conditions which favour attack and recommendations for integrated disease management are given Whilst the booklet is written primarily for turf managers it may also be of interest to advisory and research and development plant pathologists and technical research and sales staff within the agrochemical industry      **Management of Turfgrass Diseases** Joseph M. Vargas, 2018-12-19 This Second Edition of *Management of Turfgrass Diseases* has been completely revised and updated to provide the latest information on maintaining a healthy turf and identifying turf diseases Written by a leading international lecturer on turf grasses the book covers cultural genetic biological and chemical approaches to turf

management and provides practical solutions to everyday problems Fungal bacterial and viral diseases black layer disease and diseases caused by nematodes are addressed for all major grasses You ll learn about cool and warm season grasses growing conditions new diseases symptoms and identification and management techniques Valuable tips on irrigation fertilization and grass culture as well as 72 full color photographs and more than 100 figures ensure this book will be dog eared from use It s almost like having your own private turfgrass consultant sitting right on your bookshelf What s New in the Second Edition This second edition features new grasses new diseases and the latest research findings and practices You ll have the most up to date information available on these major grasses      *Biology and Integrated Management of Turfgrass Diseases* Gary W. Beehag,Nathan R. Walker,Percy T.W. Wong,Jyri Kaapro,2024-02-21 Cultivated turfgrass is an assemblage of mown perennial grasses or prostrate growing forb plants and a suite of microbes all competing with each other in a common environment This book approaches turfgrass diseases from an ecological perspective and explains with examples how wild plants and microbes have co evolved It addresses the identification biology and integrated management of both common turfgrass diseases and newly emergent diseases It includes the common and lesser known turfgrass species their surrounding environment and the range of beneficial and pathogenic microbes which in combination explain why disease occurs For disease identification purposes fungal diseases are arranged according to their predominantly cool season and warm season occurrence Turfgrass bacterial and viral diseases and plant parasitic nematodes are also covered Written by a team of international authors it combines technical expertise and practical experience Essential for anyone involved in managing turfgrass this book provides the know how to identify the early warning signs of diseases in order to manipulate the environment and minimise the damage      *Handbook of Turfgrass Management and Physiology* Mohammad Pessarakli,2007-10-09 A multibillion dollar industry that has tripled in the last ten years turfgrass management plays an important role in landscaping golf courses and other sports surfaces Proper management and cultural practices are crucial for the performance of these versatile grasses creating a demand among scientists researchers and industry professionals      *Managing Turfgrass Pests, Second Edition* Thomas L. Watschke,Peter H. Dernoeden,David J. Shetlar,2013-04-16 Written by three of the top professionals in the turfgrass field Managing Turfgrass Pests Second Edition brings together hundreds of solutions and best practices to help you manage turfgrass weeds diseases and insects more effectively Since the publication of the bestselling first edition advances in pest resistant turfgrass cultivars and pest control products have led to significant changes in the ways pests are managed This revised and updated second edition reinforces those management tactics that are still relevant and covers new approaches that have been introduced since the first edition The book discusses the concept of integrated pest management incorporating cultural biological and chemical control measures In particular the authors emphasize the philosophy of minimizing pests through well defined and well implemented cultural systems Rather than simply relying on a pesticide solution for control they explain how to fine tune cultural practices to better address the

question of why the pest is present in the first place Once these cultural practices are in place any pesticide that is still required will be much more effective at controlling the pest New in This Edition Revised and updated descriptions of economically important turfgrass pests Revised and updated cultural approaches to turfgrass pest management Revised and updated biological methods of turfgrass pest management Revised and updated chemical control of turfgrass pests More than 200 new color illustrations Packed with photographs this full color book provides updated information on best practices and control measures for turfgrass pest management It also explains how to integrate various management strategies to ensure quality and functional turf Throughout the authors offer practical recommendations to help you optimize the competitiveness of your turfgrass against the pests that inevitably become part of any ecosystem

**Introduction to Plant Diseases** George B. Lucas, Lee Campbell, 2012-12-06 Every year we see a remarkable increase in scientific knowledge We are learning more each day about the world around us about the numerous biological organisms of the biosphere about the physical and chemical processes that shaped and continue to change our planet The cataloging retrieval dissemination and use of this new information along with the continued development of new computer technology provide some of the most challenging problems in science as we enter the Information Age With the explosion of knowledge in science it is especially important that students in introductory courses learn not only the basic material of a subject but also about the newest developments in that subject With this goal in mind we have prepared a second edition of *Introduction to Plant Diseases Identification and Management* We prepared this edition with the same general purpose that we had for the first edition to provide practical up to date information that helps in the successful management of diseases on food fiber and landscape plants for students who do not have a strong background in the biological sciences We included new information on 1 the precise identification of diseases and the pathogens that cause them 2 the development of epidemics of plant diseases 3 the application of biotechnology in plant pathology 4 the use of alternative methods of crop production and disease management that help protect the environment and 5 diseases that have become more important since the first edition was published

*International Turf Management* David Aldous, 2014-06-17 Many leisure activities involve the use of turf as a surface Grass surfaces on golf courses bowling clubs cricket pitches racetracks and parks all require maintenance by trained personnel *International Turf Management Handbook* is written by a team of international experts It covers all aspects of turf management and in particular the selection and establishment of grass varieties soils irrigation and drainage performance testing and playing qualities issues relating to specific playing surfaces In its depth of coverage and detailed practical advice from around the world this comprehensive handbook is destined to become the standard reference work on the subject

*Handbook of Integrated Pest Management for Turf and Ornamentals* Anne R. Leslie, 2020-04-23 This essential reference provides complete coverage of integrated pest management IPM With more than 40 recognized experts the book thoroughly details the rationale and benefits of employing an IPM plan and provides technical information on each aspect from cultural

practices to choosing when and how to use chemicals It also brings together research work on pest problems with information on the practical implementation of the tools Case studies of successful operations are provided as well *IPM Handbook for Golf Courses* Gail L. Schumann, Patricia J. Vittum, Monica L. Elliott, Patricia P. Cobb, 1998-01-15 Designed for both novice and experienced superintendents this field manual will help you understand and implement successful integrated pest management techniques Each chapter begins with a solid introduction followed by step by step lists to aid in the field application of IPM principles to real world situations Over 150 photographs 32 in color along with informative tables and drawings illustrate the key points Actual examples and success stories are presented by superintendents from across the country to help you plan or improve your IPM program *IPM Handbook for Golf Courses* by Gail L Schumann Patricia J Vittum Monica L Elliott and Patricia P Cobb is a volume in the series *Turfgrass Science and Practice* James B Beard Editor

**Creeping Bentgrass Management** Peter H. Dernoeden, 2000-07-15 *Creeping Bentgrass Management* presents a difficult management problem throughout the summer season This complex dilemma is related to numerous and often interrelated factors such as extreme air and soil temperatures drought or excessively wet soils dense thatch or organic mats mechanical and other physical stresses improper management practices the misuse of chemicals and other physical stresses The goal of this useful manual complete with helpful color photographs is to give golf course superintendents practical tools to better understand the many stress factors that contribute to the creeping bentgrass decline complex It will help you pinpoint problems and implement cultural and chemical solutions to maintain the integrity of your course *Management of Wheat and Barley Diseases* Devendra Pal Singh, 2017-10-12 Both wheat and barley are two of the most important food and industrial crops in the world Wheat and barley cultivation has experienced changes in practices due to factors such as methods of conservation agriculture cropping systems wheat varieties changes in weather patterns and international trade necessitating new and different approaches for the successful management of emerging diseases and new pathotypes of pathogens This valuable volume explores a multitude of new approaches and techniques for the effective management of emerging wheat diseases This new volume presents the latest literature on management technology of diseases that affect the production of wheat and are capable of reducing grain yields as well as grain quality These diseases include rusts smuts other foliar diseases such as blight spots blotch powdery mildew bunts etc as well as diseases such as Karnal bunt of wheat which is of importance to international trade This book will be highly valuable to researchers students teachers farmers seed growers traders and other stakeholders dealing with wheat and barley It also advances our knowledge in the field of plant pathology plant breeding and plant biotechnology agronomy and grain quality and pesticide industries The book will serve as a reference on disease management technologies for the containment of losses in wheat and barley yields and will assist in maintaining wheat quality reducing the cost of cultivation increasing yield and thus in helping to ensuring food security on a global level **Biotic Interactions and Soil-Borne Diseases** A.B.R. Beemster, G.J. Bollen, M. Gerlagh, M.A. Ruissen, B.

Schippers,A. Tempel,2012-12-02 This volume contains a collection of all the papers presented at the founding conference of the European Foundation for Plant Pathology held from 26th February to 2nd March 1990 at Wageningen The Netherlands It focusses on the theme of Biotic Interactions and Soil Borne Diseases on which there are contributions from leading European scientists in the field of soil borne diseases Ways of exploiting biotic processes and phenomena which result in plant production harmless to the environment are explored *Horticulture: Plants for People and Places, Volume 2* Geoffrey R. Dixon,David E. Aldous,2014-06-10 This Trilogy explains What is Horticulture Volume two of Horticulture Plants for People and Places analyses in depth the scientific managerial and ecological concepts which underpin Environmental Horticulture Chapters describe Horticulture and the Environment Woody Ornamentals Herbs and Pharmaceuticals Urban Greening Rural Trees Urban Trees Turfgrass Science Interior and External Landscaping Biodiversity Climate Change and Organic Production Each is written by leading international experts Sustainable use of resources and careful conservation are critically essential for the continuation of life on this Planet Achieving this is where horticulture natural flora and fauna and the environment interact in achieving sustainable development Horticulture is the fundamental partner of ecological and environmental science and provides an understanding of eco system services Live plant networks are essential for rural and urban life They are integral parts of natural communities the context of historic and modern architecture and a means for rejuvenating cities and uniting communities Plants provide urban peri urban and rural employment business and tourism opportunities leisure rest and relaxation These facets of Environmental Horticulture are clearly described in this book **Fundamentals of Turfgrass Management** Nick E. Christians,Aaron J. Patton,Quincy D. Law,2016-10-20 FUNDAMENTALS OF TURFGRASS MANAGEMENT THE PREMIER TURFGRASS MANAGEMENT HANDBOOK UPDATED AND EXPANDED Fundamentals of Turfgrass Management is the longstanding authority on all aspects of the science and practices behind world class turfgrass care This fully revised Fifth Edition comes enriched by two new authors who share their cutting edge research and real world expertise on such topics as growth soil testing nutrition herbicides insecticides and fungicides Coverage throughout is refreshed with new illustrations and charts as well as Expanded coverage on professional lawn care programs including cool season and warm season turfgrasses establishing methods and costs cultivation sand topdressing and more Enhanced material on the most up to date thinking and practices in weed management Brand new chapters on the environmental economic and quality of life benefits of well maintained turf as well as the influence of light on turf health Whether you re earning a degree or a paycheck Fundamentals of Turfgrass Management Fifth Edition remains the most complete respected guidebook of solutions for developing and maintaining the finest standards of turfgrass *Science and Golf IV* Eric Thain,2012-11-12 The fourth World Scientific Congress of Golf to be held in St Andrews in July 2002 will bring together all of the world s leading golf researchers Science and Golf IV will present 90 or so of the best research papers delivered at the Congress and represents the latest volume in a unique and essential series of scientific studies in golf The book is organised

into four thematic sections looking at the golfer golf equipment the golf course and the social and economic impact of golf respectively and addresses key topics such as the psychology of golf biometrics of the swing new developments in clubs balls and teaching aids golf agronomy irrigation and drainage the impact of golf on the community representing the most up to date collection of research available Science and Golf IV is essential reading for all sport scientists and researchers with an interest in golf all club professionals and all those working in technical aspects of the golf industry

**Creeping Bentgrass Management, Second Edition** Peter H. Dernoeden, 2012-06-04 Creeping bentgrass is considered the premier turfgrass species grown on golf courses and there is a growing demand for an understanding of its maintenance and management practices Still the only comprehensive reference on the subject Creeping Bentgrass Management Second Edition helps you identify the factors that contribute to summer bentgrass decline and guides you in selecting the best approaches for stress and pest management This full color book delves into all aspects of modern approaches to creeping bentgrass management on golf courses It describes the nature of mechanical physiological and environmental stresses and how they influence growth and management of creeping bentgrass The book covers the selection of creeping bentgrass cultivars cultural practices including mowing irrigation and topdressing the deleterious effects of organic and inorganic layers in golf greens and ways to limit injury due to mechanical or physical stresses It also discusses recent advances in the management of selected diseases and soil related maladies of creeping bentgrass from Pythium incited root dysfunction to dollar spot yellow tuft and blue green algae The focus is on common disease symptoms predisposing conditions hosts and cultural and chemical management strategies Advances in biological disease control are also reviewed The book offers practical guidance in selecting and using fungicides herbicides and plant growth regulators It also discusses the use of non selective herbicides and fumigants for the renovation of creeping bentgrass and outlines strategies for dealing with selected invertebrate pests Throughout color photographs help you identify diseases and stresses that may be affecting your own golf course Fully revised and updated this second edition of a bestseller features three new chapters new photographs and expanded information about diseases Drawing on the author s more than thirty years of experience and research it brings together a wealth of information on how to optimize creeping bentgrass health and performance What s New in This Edition Three new chapters covering the nature of fungicides abiotic maladies and selected invertebrate pests An expanded section on disease double the length of the first edition Updated chapters that reflect the latest developments in creeping bentgrass management More extensive discussion of annual bluegrass problems and their management More than 100 new photos Tips from Dr Dernoeden Watch these videos to get Dr Dernoeden s tips on how to control dollar spot disease and crabgrass and how to identify fairy ring



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