Plant Disease Red Rot Of Sugarcane

ALESSANDRO WISE

Text-book of the Diseases of Trees Ithaca, N.Y. : Comstock Pub. Associates
This revised edition maintains the clear, nontechnical format of the first, and covers the infectious diseases of shade trees, the major pathogens that cause them, and noninfectious diseases and their agents. Special topics include nonpathogenic conditions, disease diagnosis, and tree injection and implantation. Comprehensive disease control protocols, a detailed discussion of disease diagnosis, and tree diseases of the western and southern United States are among the useful additions to this widely used text and reference. This is an essential book for arboriculturists and students of aboriculture.
Integrated Management of Diseases Caused by Fungi, Phytoplasma and Bacteria Indus Publishing
Diseases of Trees and Shrubs is a comprehensive pictorial survey of the diseases of, as well as the environmental damage to, forest and shade trees and woody ornamental plants in the United States and Canada. An authoritative reference, it is also a reliable and handy diagnostic tool that will simplify the identification of specific plant diseases by focusing on signs and symptoms that can be seen with the unaided eye or with a hand lens. This long-needed book gives readers complete, up-to-date information in an easily understood and convenient way. Each of the 247 color plates faces a page of explanatory text covering the biology and ecology (including host and geographic ranges) of the disease-causing agents (pathogens), a list of key references (there are more than 2,250), and, in some cases, black-and-white illustrations of pathogens. Selected information about biological and cultural control is provided. Scientific terms other than Latin names of pathogens are used only when necessary, and a glossary of terms and a comprehensive index are included. The color plates contain more than 1,700 illustrations of the diseases and injuries that some 350 biological agents and environmental factors cause to more than 250 species of plants. The book also serves as a guide to hundreds of other diseases related to those shown. The authors have used three levels of organization for this book. At the first level, diseases caused by biological agents are separated from those caused by environmental stimuli. At the second level, most diseases are grouped according to the plant part affected: leaves, twigs, limbs, roots, trunks, or the entire plant. At the third level, diseases are presented according to the taxonomic relationships among the pathogens. For this major project, the authors examined and photographed diseases and environmental damage in the field, visiting more than 50 states and Canadian provinces. Their book reflects the most important developments in fungal biology and taxonomy, plant bacteriology, virology, and environmentally induced stress in plants. It summarizes information about newly discovered diseases and provides up-to-date accounts of olds ones. Diseases of Trees and Shrubs can be profitable reading for anyone whose technical training does not extend beyond general biology, yet will also be informative to advanced students and plant pathologists. It will be welcomed by agricultural and horticultural advisers, plant inspectors, arborists, nursery professionals, landscapers, foresters, and urban planners. Wayne A. Sinclair is a Professor of Plant Pathology, Howard H. Lyon is Biological

Photographer (retired), Department of Plant Pathology, and Warren T. Johnson is Professor of Entomology, all at Cornell University.
Insect Transmission Of Plant Diseases Natural Resource Agriculture and Engineering Service (Nraes)
Combines theoretical principles with practical applications in dealing with viral, fungal and bacterial diseases of plants. Covers exclusion techniques, eradication by chemical or physical means, biological control, fungicides, pathogen free seeds and vegetative material. Includes a wide range of examples.
The "bluing" and the "red Rot" of the Western Yellow Pine, with Special Reference to the Black Hills Forest Reserve Springer Science & Business Media
An introduction discussing symptoms and diagnosis and disease development is followed by an alphabetical treatment of some 80 families and genuses of ornamentals commonly grown indoors. Each family or genus is followed by a list of the diseases to which the plant is susceptible, including information on signs and symptoms and controls used. The 403 detailed color plates showing the diseases appear in the second half of the volume. Annotation copyrighted by Book News, Inc., Portland, OR
A Guide to Sugarcane Diseases Elsevier
Plant Pathology comprises art of treating a sick plant as well as science of understanding the nature of the diseased plant. Primarily aimed to cater to the needs of undergraduate students, this book provides comprehensive treatment of fundamental facts, terminology and general aspects of Plant Pathology. it provides an introduction to the subject for beginners in this field. it can also serve as a laboratory manual. CONTENTS 1.introduction 2. Causes of plant diseases 3. Classification of plant diseases 4. Effect of pathogen on the plants 5. Dissemination of plant diseases 6. Diseases caused by abiotic factor 7. Role of enzymes and toxins in plant disease development 8. Defense mechanism in plants 9. Infection and host-parasite relationship 10. Principles and methods of plant disease control 11. Culture media and sterilization 12. Disease forecasting 13. Remote sensing – meaning, scope, objectives, advantages 14. Host plant resistance 15. Disease of rice 16. Disease of wheat 17. Diseases of sorghum 18. Diseases of pearlmilled 19. Diseases of maize 20. Diseases of turmeric 21. Diseases of tobacco 22. Diseases of groundnut 23. Diseases of sunflower 24. Diseases of sesamum 25. Diseases of cotton 26. Diseases of pigeonpea or arhar 28. Diseases of bengal gram 29. Diseases of soybean 30. Diseases of sugarcane 31. Diseases of citrus 32. Diseases of mango 33. Diseases of banana 34. Diseases of grapes 35. Diseases of apple 36. Diseases of papaya 37. Diseases of chilli 38. Diseases of brinjal 39. Diseases of bhendi 40. Diseases of potato 41. Diseases of cabbage 42. Diseases of cucurbits 43.diseases of tomato 44. Diseases of beans 45. Diseases of onion & garlic 46. Diseases of coffee and tea Definition and terms References
A Report on Plant Diseases of the State (Classic Reprint) John Wiley & Sons
To Meet The Food Demands Of Ever Increasing Human Population, Agricultural Production Is Being Augmented Through The Use Of New Crop Varieties And Changed Agronomic Practices. These Practices Have Enormously Increased The Incidence Of Several Pests And Diseases. Plant Diseases Cause Serious Threats To The Successful Cultivation Of Agricultural Crops Resulting In Huge Losses In Their Yields. In The Recent Past, Certain Diseases Have Appeared In Epidemic From Endangering Sustainability In Agriculture. The Destructive Potential Of Plant Diseases In Modern Day Agriculture Has Increased Due To The Use Of Cultivars Having Narrow Genetic Base Over Large Areas. Correct Disease Diagnosis Is The Prime Requirement For Recommending Preventive Or Curative Measures For Effective Disease Management. Knowledge Of Perpetuation And Spread Of The Pathogens And Various Factors Affecting Disease Development Is Necessary. All The Available Strategies Must Be Used In An Integrated Manner And A Holistic Approach Needs To Be Developed For The Management Of Major Diseases Of A Crop. Information On Latest Developments In The Understanding And Management Of Plant Diseases Has Been Compiled In This Publication. The Book Deals With Diseases Of Important Cereals, Pulses, Oilseeds, Sugar Crops, Cotton And Fodder Crops Through 23 Chapters. Nematode Problems Of These Crops Have Been Exclusively Discussed In One Chapter While Another Deals With Mycotoxin Contamination In Stored Grains. Coloured Photographs Showing Symptoms Of Important Diseases Are Given To Help In Disease Diagnosis. It Is Hoped That The Book Will Cater To The Needs Of Research Workers, Teachers And Students Not Only In The Discipline Of Plant Patholgy But Also In Other Areas Of Agriculture. Contents Chapter 1: Disease Of Wheat And Their Management By D V Singh, S K Jain, K D Srivastava And R Aggarwal; Chapter 2: Diseases Of Maize And Their Management By R C Sharma; Chapter 3: Diseases Of Rice And Their Management By B Padhi And S Gangopadhyay; Chapter 4: Diseases Of Pearl Millet And Their Management By R P Thakur; Chapter 5: Diseases Of Sorghum And Their Management By S Pande, P S Marley And J M Lenne; Chapter 6: Diseases Of Rapeseed And Mustard And Their Management By G S Saharan; Chapter 7: Diseases Of Groundnut And Their Management By C D Mayee; Chapter 8: Diseases Of Linseed And Sesame And Their Management By Reeti Singh, U C Singh, R K Khare And B L Sharma; Chapter 9: Diseases Of Chickpea And Their Management By Gurdip Singh And Y R Sharma; Chapter 10: Diseases Of Mungbean And Urdbean And Their Management By R A Singh, S N Gurha And A Ghosh; Chapter 11: Diseases Of French Bean And Their Management By A Ghosh, R A Singh And S N Gurha; Chapter 12: Diseases Of Pigeonpea And Fieldpea And Their Management By Vishwa Dhar And R G Chaudhary; Chapter 13: Diseases Of Cowpea And Their Management By Moly Saxena, D R Saxena, M S Bhale And M N Khare; Chapter 14: Diseases Of Soybean And Their Management By D S Singh And K K Pandey; Chapter 15: Diseases Of Lentil And Their Management By D R Saxena, Moly Saxena And M N Khare; Chapter 16: Diseases Of Cotton And Their Management By O M Bambawale, S Raj, M K Meshram And N K Taneja; Chapter 17: Diseases Of Sugarcane And Their Management By Satyavir, Anil Kumar And S K Khirbat; Chapter 18: Diseases Of Sugarbeet And Their Management By S N Srivastava; Chapter 19: Diseases Of Rabi Fodder Crops And Their Management By P P Gupta, Rakesh Kumar, S K Gandhi And R N Arora; Chapter 20: Diseases Of Kharif Fodder Crops And Their Management By P P Gupta, R N Arora And S K Gandhi; Chapter 21: Microbial Spoilage Of Stored Grains And Its Management By R C Sharma And T S Thind; Chapter 22: Mycotoxins In Foodgrains And Their Management By P P Singh, T S Thind, V K Mehan; Chapter 23: Nematode Diseases Of Field Crops And Their Management By H S Gaur And Inderjit Singh.
Diseases of Trees and Shrubs A V I Publishing Company
This book incorporates several new developments since the publication of the first edition. Use this reference as a guide to the identification and control of tropical plant diseases. Includes special emphasis on molecular biology, genetic engineering, and integrated pest management. Includes new coverage of: Rice, Maize, Sorghum, Root Crops, Cassava, Sweet Potatoes, Legumes, Soybeans, Peanuts, Bananas, Coffee, Fruit and Nuts, Sugarcane, Vegetables, Cotton, Spices, Tobacco, among others.
PRINCIPLES OF PLANT PATHOLOGY American Phytopathological Society
Plant Pathology has an important role to play in devising strategies suitable for sustainable agriculture. Some of the important steps to be taken by plant pathologists include the development of eco-friendly mechanisms of disease control through the use of biological resources, enhancing the resistant mechanisms of the plant through molecular means as well as studies on the interactions of biotic and abiotic stressors. The diversity of Agriculturally Important Microorganisms is far more than what we have found out till date and the function of these important microbes in agro-ecosystems is also equally diverse. The ability of plant growth promoting rhizobacteria, actinomycetes, plant growth promoting fungi, mycorrhiza, to influence plant growth depends upon the diverse mechanisms like phosphate solubilization, biological nitrogen fixation, phytohormone production, siderophore production, biological control of plant pathogens and direct or indirect induction of disease resistance. Application of these beneficial microorganisms in enriching soil and enhancing crop production will not only change the scenario of using harmful chemical fertilizers but will also open up new dimensions for utilizing microbial resources for sustainable agricultural practices. The present review covers a wide spectrum of articles which are pertinent in the present day context and gives an indication to readers of the role of plant pathology in the current agricultural scenario.
Economic Importance of Red Rot and Comparative Susceptibility of Some Sugarcane Varieties in the Southern United States Academic Press
Contributed articles.
Annual Review Of Plant Pathology Cabi
"Colletotrichum" is a genus of plant pathogenic fungi of great economic importance, particularly in the tropics. This volume on the group covers topics such as taxonomy, cellular and molecular biology, epidemiology, field pathology and host resistance.
The Plant Disease Bulletin Scientific Publishers
The control of plant diseases studied as part of epidemiology. About interest on money, logarithmic increase. The logarithmic and the apparent infection rates. How to plot the progress of an epidemic. The basic infection rate. The latent period. Average values of infection rates; increase of populations of lesions and foci, independente action of propagules. Corrected infection rates. Stochastic methods in epidemiology. A guide to the chapters on control of disease. Sanitation with special reference to potato bligth. Sanitation with special reference to wheat stem rust. Sanitation and two systemic diseases, sanitation when other things are not equal. Vertical and horizontal resistance against potato bligth. A note on the history of stem rust epidemics in spring wheat in North America. Plant disease in biological warfare. The bases of vertical resistance. General resistance against disease. The choice of type of resistance. The quantitative effect of horizontal resistance. Control of disease by fungicides. How disease spreads as it increases. The cryptic error in field experiments.
Tropical Plant Diseases Springer Science & Business Media
During the past twentieth century, plant pathology has witnessed a dramatic advancement in management of plant diseases through in-depth investigations of host parasite interactions, integration of new concepts, principles and approaches. Our effort in brining out this book is to compile the achievements of modern times with regards to disease management of fruits which otherwise is widely dispersed in various scientific journals, books and government reports and to develop future strategies for the millennium. The chapters on individual crops are contributed by leading plant pathologists having authority in the respective field at international level. Each chapter includes the diseases of economic importance describing their history, distribution, symptoms, epidemiology, and integrated management approaches being adopted worldwide. Each chapter is vividly illustrated to make it more understandable to students, research and extension workers, planners, administrators and other end users citing pertinent references.
Foliage Plant Diseases Daya Books
Volume Brings Into Focus The Crucial Role Played By Insects In The Spread And Development Of Various Plant Diseases. Against The Background Of Advances In Plant Pathology, It Is Described How Bacterial, Fungus, Virus And Other Plant Diseases Are Transmitted Through Insects. Based On Author S Personal Research Work, A Number Of Diseases In Specifies Crops Have Been Discussed, Supplemented With Illustrations, Tables Of Technical Data And Diagrams. Also There Are Special Chapters On The Anatomy And Physiology Of Plants In Relation To Infection; Feeding And Breeding Habits To Insects; And The Techniques Particularly Useful For The Study Of Insect Transmission Of Plant Diseases. With Prolific Reference For Further And Deeper Information Appended To Each Of The Chapters, The Book Should Interest The Students And Scholars Of Entomology And Plant Pathology, Particularly. Contents: Chapter 1: Introduction; The Science Of Plant Pathology: Its Origin And Growth, The Passing Ofthe Exploratory And Descriptive Stage, Modern Emphasis On More Basic Problems, Insect Transmission A Neglected Borderline Field, Some Causes Of Neglect, Viewpoints Of Pathlogists And Entomologists, Some Results Of Neglect, Relation Of Dipterous Insects To Bacterial Soft Rot Misinterpreted, Failure To Recognize Role Of Flea Beetles In Transmitting Bacterial Wilt Of Corn, Confusion Of Tipburn And Hoppeburn Of Potatoes, Bark Beetles And Blue-Stain Fungi As Factors In Death Of Pines, Need For More And Better Cooperation, Possible Aids In Overcoming Difficulties In Cooperation, The Complexity Of The Phenomenon Of Insect Transmission, Biological And Evolutionary Aspects, Interaction Of Plant, Pathogen And Vector And Influence Of Environment, Need For Special Techniques, Lessons To Be Learned From Insect Transmission Of Animal Diseases, Chapter 2: The Interrelationships Of Plants And Insects; Close Association Of Insects And Plants In Evolutionary Past, Interdependence Of Plants And Insects, Phytophagous Insects: Methods Of Feeding, Injuries And Benefits, Entomophagous Plants, The Flycatcher, The Pitcher Plants, The Butterworts, The Sundews, The Bladderworts, The Venus S Flytrap, Nematode Entraping Fungi, Entomophthorous Plants: Bacterial Diseases Of Insects, Fungus Diseases, Virus Diseases, Protozoal Diseases, Entomophilous Plants, Agents Of Pollination, Origin Of Entomophily, Plant Adaptations, Insect Adaptations, Symbiosis Between Insects And Plants, Chpater 3: Symbiosis Between Insects And Microorganisms And Its Significance In Plant Pathology; Symbiosis, Origin Of The Term And Concept Expressed, Kind Of Symbiosis, Symbiosis Between Insects And Microorganisms, Ecotosymbiosis: Ambrosia, Beetles, And Fungi, Termites And Fungi, The Fungus Cultivating Ants, Endosymbiosis: Progressive Series Of Complexity, The Nature Of The Symbiotic Association, Septobasidium And Scale Insects, Bacteria And Dipterous Insects, The Drug Store Bettle And Yeast, Intracellular Symbiosis In The Homoptera, Mycetocytes And Mycetomes, Rikettsia, Chapter 4: The Relation Of Insects To The Spread And Development Of Plant Diseases; Historical Review: Poineer Work Of Waite On Insect Transmission Of Fire Blight, Takami And Rice Dwarf, Early Work On Sugar Beet Leaf Roll, Allard And Tobacco Mosaic, Parallel Developments In Insect

Transmission Of Animal Diseases, The Olive Fly And Olive Knot, Bacterial Wilt Of Cucurbits And The Cucumber Beeltes, Norton S Review, Hopperburn Of Potatoes And Other Plants, Survey Of Field By Rand And Pierce, Symposium Of 1921, Buchner S Tier And Pflanze In Symbiose:, Boning S Review, Leach S Review, Symposium Of 1987, The Roles Played By Insects: Direct Disease Production, Dissemination Of The Pathogen, Inoculation, Ingression, Invasion, Preservation, Possible Role Of Insects In Origin Of New Diseases; Classification Of Methods Of Insects Transmission, Biologic And Evolutionary Significance Of Insect Transmission, Insect And Diploidization Of Heterothallic Fungi, Chapter 5: Plant Diseases Caused By Toxicogenic Insects; Nature Of Diseases Caused By Insects: Toxocogenic And Toxoniferous Insects, Phytotoxaemias , Or Toxicoses Compared With Virus Diseases, Stigmonose, Hopperburn, Toxicogenic Casid Bugs, Froghopper Blight Of Sugar Cane, Mealy Bug Wilt Of Pineapple, Green Spotting Of Pineapples, Psyllid Yellows Of Potatoes, Anasa Wilt Of Cucurbits, Insect Galls, Insect Causing Galls, Morphology Of Insect Galls, The Ambrosia Galls, The Gall Producing Stimulus, The Histology Of Galls, Chapter 6: Insects And Bacterial Diseases; 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Colletotrichum Editions Quae

Aan de hand van een aantal voorbeelden van planteziekten wordt een en ander toegelicht

Some Sugar Cane Diseases Dr. A.K KUSHWAHA

This Book Of Diseases Of Plantation Crops Has Been Written To Meet The Requirement Of Students, Teachers And Researchers In The Field Of Plant Pathology. This Work Has Been Divided Into 27 Chapters Related To Diseases Of Cotton, Food And Feed Grains, Sugar Crops, Tobacco Plant, Flax And Coffee. In Presenting The Information Cited Is Proportional To Its Importance. Thus, The Information And View Have Been Arranged In An Orderly Sequence. It Has Been Written In A Simple Language. It Is Hoped That This Will Prove Quite Useful To Students And Researchers. Contents Part I: Cotton Chapter 1: Fusarium And Nematodes On Cotton By Albert L Smith; Chapter 2: The Rot That Attacks 2000 Species By Lester M Blank; Chapter 3: Verticillium Wilt Of Cotton By J T Presley; Chapter 4: Anthracnose And Some Blights By Albert L Smith; Chapter 5: Bacteria And Fungi On Seedlings By David C Neal; Chapter 6: The Leaf Spots Of Cotton Plants By Lester M Blank; Chapter 7: Nonparasitic Disorder Of Cotton By W Hardy Tharp. Part Ii: Food And Feed Grains Chapter 8: Root Rots Of Wheat, Oats, Rye, Barley By J J Christensen; Chapter 9: The Rusts Of Wheats, Oats, Barley, Rye By John J Martin & S C Salmon; Chapter 10: Leaf And Head Blights Of Cereals By James G Dickson; Chapter 11: Virus Diseases Of Cereal Crops By H H Mckinney; Chapter 12: The Smuts Of Wheat, Oats, Barley By C S Holton & V F Tapke; Chapter 13: Four Enemies Of Sorghum Crops By R W Leukel & John H Martin; Chapter 14: Infection Of Corn Seedlings By Paul F Hoppe; Chapter 15: Some Of The Leaf Blights Of Corn By Alice L Robert; Chapter 16: Some Smuts And Rusts Of Corn By Aronld J Ullstrup; Chapter 17: Several Ear Rots Of Corn By Arnold J Ullstrup. Part Iii: Sugar Crops Chapter 18: Some Problems In Growing Sugar Beets By George H Coons; Chapter 19: Rots, Blights, And Leaf Diseases Of Sorgo By E V Abbott & P E Bouchereau; Chapter 20: Sugarcane And Its Diseases By E V Abbott; Chapter 21: Red Rot Of Sugarcane By E V Abbott. Part Iv: The Tobacco Plant Chapter 22: Developments In Growing Tobacco By E E Clayton; Chapter 23: The Genes That Mean Better Tobacco By E E Clayton; Chapter 24: Crop Rotations And Tobacco By J G Gaines & F A Todd; Chapter 25: Soil Fumigation To Control Root Ills By J G Gaines & T W Graham. Part V: Miscellaneous Chapter 26: Wilt, Rust, And Pasmo Of Flax By H H Flor; Chapter 27: Some Important Diseases Of Coffee By Frederick L Wellman.

Plant Disease Reporter Daya Books

This volume focuses on integrated pest and disease management (IPM/IDM) and biocontrol of some key diseases of perennial and annual crops. It continues a series originated during a visit of prof. K. G. Mukerji to the CNR Plant Protection Institute in Bari (Italy), in November 2005. Both editors aim at a series of five volumes embracing, in a multi-disciplinary approach, advances and achievements in the practice of crop protection, for a wide range of plant parasites and pathogens. Two volumes of the series were already produced, dedicated to general concepts in IPM and to management and biocontrol of nematodes of grain crops and vegetables. This Volume deals, in particular, with diseases due to bacteria, phytoplasma and fungi. Every day, in any agroecosystem, farmers face problems related to plant diseases. Since the beginning of agriculture, indeed, and probably for a long time in the future, farmers will continue to do so. Every year, plant diseases cause severe losses in the global production of food and other agricultural commodities, worldwide. Plant diseases are not limited to episodic events occurring in single farms or crops, and should not be regarded as single independent cases, affecting only farms on a local scale. The impact of plant disease epidemics on food shortage ignited, in the last two centuries, deep cultural, social and demographic changes, affecting million human beings, through i. e. migration, death and hunger.

Plant Disease Control American Phytopathological Society

This book contains seventeen original research papers/ reviews by eminent scientists of the country covering different aspects of mycology and plant pathology depicting the achievements, but also pointing out the areas where knowledge is not complete thus giving an idea of the future prospects. The articles were invited on the occasion of the XVII All India Botanical Conference held in Bombay Department Punjab University.

Cotton Root-rot Daya Books

Use this book to diagnose and treat diseases of strawberries. Completely updated.

Nature and Prevention of Plant Diseases Forgotten Books

An extensive volume of Sugarcane Diseases and their World Distribution (Vol. I) was published by Elsevier under the auspices of the International Society of Sugar Cane Technologists in 1961. The present volume was intended to be a new edition of the book, but so many changes were required that a new book was needed. Only three chapters have been kept with slight amendments. The other chapters have been completely re-written. In fact with changes in importance of major diseases, four diseases previously treated have been left out; on the other hand, three new topics have been included in the new book, two new diseases and a chapter on sugarcane quarantine. The first chapter gives a brief account of the anatomy, morphology and physiology of the sugarcane plant to facilitate terminology and especially for a better appreciation of the effect of disease on the growth of the crop. Diseases are extensively treated as in Volume I, with a very good description of their symptoms and variation under different conditions and severity, all well illustrated by black and white figures and in a set of colour plates at the end of the book which will prove of valuable help for identification. The causal agents of the diseases are described giving synonyms, cultural characteristics, isolation methods and present knowledge on race variation, an aspect on which there has been quite an advance in knowledge since Volume I was published. New techniques of diagnosis are also given. Advances in research on the diseases over the last 25 years are well covered and supported by an extensive bibliography at the end of each chapter. The book has been edited by people having first hand experience in the field and in research on these diseases. Authors have been selected from among the most knowledgeable all over the sugar cane world, especially with due regard to the importance of the different diseases in their countries. The book should prove of immense value to those concerned with practical aspects of plant disease control in the field:

pathologists, agronomists and crop specialists, including consultants, to those concerned with quarantine of the crop, for university lectures and students, and research scientists. In a pre-publication review D.J. Heinz and S.A. Ferreira of the Hawaiian Sugar Planters' Association stated: ``Much has changed and new information generated since the original version of this book was published in 1961. This new edition incorporates most of it, providing both the laboratory and field sugarcane pathologist a complete and authoritative guide to the major sugarcane diseases of the world. It is the best single book available on sugarcane diseases.''

Achievements and Prospects in Mycology and Plant Pathology CIMMYT

Excerpt from A Report on Plant Diseases of the State Black Rot. This is another destructive disease, causing the fruit to rot and cankers on the branches. The young growth is some times killed, the twigs then resembling those attacked by the twig blight, for which it may be mistaken. The disease was found on apple leaves at Wellsburg. The black rot is similar to the bitter rot in general appearance, except that instead of the masses of pinkish spores that break through the Skin in the case of bitter rot, there are small black bodies imbedded under the skin in the case of'black rot. The shrunken and Shriveled apples often remain on the trees for a year or more. This disease has been Very destructive to quinces in several parts of the State. At a number of places where it was found on quinces, it was also found on apples near by. The same treatment is recommended as for bitter rot. It is possible that the black rot' might be controlled to some extent when it is found on quinces by picking the rotting fruit before the Spores have developed and become distributed. On apples this might not be feasible on account of the size of the trees. Canker. The cankers are the dead and shrunken areas occasionally found on the branches and trunk. They are due to a number of causes. (see under Bitter Rot and Black Rot.) One of the common ones found in old orchards is known as the Illinois Canker. It may be recognized by the black round bodies that push through the dead bark on the branches and trunk. These bodies are sometimes nearly one-fourth of an inch in diameter, and attached to the wood, so that when they are broken off, a black ring remains. Keeping the cankers and dead branches cut out should prove effective. Crown Gall. This has been reported as occurring on nursery stock shipped into the State. Several specimens of the disease have been received at the Experiment Station. It would be well to burn all infected stock, such as apple, pear, peach, cherry, raspberry and blackberry, that have hard, irregular, rough swellings on the crowns or roots, in order to prevent the introduction of the disease. The swellings or galls are sometimes covered with a large number of roots. A similar disease is produced by an insect called the woolly aphis. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.forgottenbooks.com This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.

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