



LICHEN: *Punctelia rudecta*

COMMON NAME: Rough speckled shield lichen

NAME ORIGINS: *Punctelia* (L.) = dotted, referring to the speckles (pseudocyphellae) on the upper surface; *rudecta* (L.) = rough, likely referring to combined appearance of the isidia and pseudocyphellae

FOUND: On most tree types; occasionally on wood

COLOR: Green-gray, often looking bleached out except for the outer thallus edges; lower surface pale to light brown, occasionally with orange patches



SHAPE/SIZE: Lobes ≤ 8 mm, adhering closely to the substrate; upper surface covered with conspicuous white speckles (pseudocyphellae), especially toward the lobe tips

ISIDIA: Common; cylindrical, occasionally branched; dense toward the center, sparse toward the lobe edges

SOREDIA: None

APOTHECIA: Uncommon; brown

RHIZINES: Common; light brown, straight (simple); throughout the lower surface

DISTINCTIVE FEATURES: Green-gray, isidiate thallus covered with white speckles; pale-brown lower surface

NOTES: *Cetrelia* (p. 28) species can appear similar. They also have conspicuous white speckles, but the lobes are larger (≤ 20 mm), often more ruffled and they have soredia not isidia. Their lower surface is dark brown to black.

Common Lichens Of Northeastern North America A Field Guide

Troy McMullin, Frances Anderson



Common Lichens Of Northeastern North America A Field Guide:

Common Lichens of Northeastern North America Troy McMullin, Frances Anderson, 2014 A light and easy to use field guide to the rich lichen flora of Northeastern North America The authors have designed this user friendly guide for amateur naturalists nature interpreters forestry workers land surveyors researchers and the general public Meant to fit in a pocket or backpack it requires no previous botanical experience and is written in non technical language *Urban Lichens* Jessica L. Allen, James C. Lendemer, 2021-01-01 A practical field guide to the common lichens found in the northeastern megalopolis including New York City Toronto Boston New Haven Philadelphia Baltimore Washington D C and as far west as Chicago Lichens are dynamic symbiotic organisms formed by close cooperation between fungi and algae There are over 20 000 identified species performing essential ecosystem services worldwide Extremely sensitive to air pollution they have returned to cities from which they were absent for decades until the air became cleaner This guide is the first to introduce urban naturalists to over 60 of the common lichens now found in cities and urban areas throughout northeastern North America in parks and schoolyards on streets and in open spaces Divided into three sections lichen basics including their biology chemistry morphology and role in human history species accounts and descriptions and an illustrated glossary index and references for further reading the book aims to connect city dwellers and visitors with the natural world around them The descriptions exquisite photographs and line drawings will enable users to enter the hidden world of lichens *Field Guide to the Lichens of White Rocks* Erin Tripp, 2017-02-01 Field Guide to the Lichens of White Rocks is a careful examination of the lichens that occur at the ecologically important and lichenologically rich urban outcropping of Fox Hills sandstone known as White Rocks Nature Preserve located in Boulder County Colorado This extensively illustrated field guide presents detailed information on the macroscopic and microscopic features needed to identify species as well as extensive notes on how to differentiate closely related lichens both those present at White Rocks and those likely to be found elsewhere in western North America This guide is one of the only complete lichen inventories of a sandstone formation in North America and covers all constituents including the crustose microlichen biota traditionally excluded from other inventories A short introduction and glossary equip the reader with basic information on lichen morphology reproduction and ecology Visitors to White Rocks Nature Preserve must schedule staff led public tours or set up sponsored research projects through the City of Boulder Open Space and Mountain Parks and there are many other outcroppings of Fox Hills sandstone across the West making Field Guide to the Lichens of White Rocks a significant resource for anyone interested in this unique environment This accessible user friendly guide will also be valuable to naturalists and lichenologists around the world as well as educators conservationists and land managers concerned with the growing significance of open spaces and other protected urban areas throughout North America The University Press of Colorado gratefully acknowledges the generous support of the University of Colorado Natural History Museum City of Boulder Parks Open Spaces and the Colorado Native Plant

Society board and members toward the publication of this book Moss and Lichen Elizabeth Lawson, 2024-12-13 A fascinating guide to the natural and cultural significance of mosses and lichens Moss and Lichen is a celebration of the extraordinary biology beauty and resilience of two unassuming organisms Endowed with unique abilities to thrive in extreme habitats mosses and lichens defy easy categorization Mosses which are integral to the plant kingdom and lichens which are a kingdom unto themselves colonize a variety of landscapes from rainforests to deserts to urban streets Long neglected for lacking flowers these organisms are now beloved for their significant role in maintaining the health of our world's ecosystem Elizabeth Lawson describes how mosses and lichens shape landscapes prevent erosion and sequester carbon but she also offers a wide ranging introduction to the biologists artists and writers inspired by their beauty Moss and Lichen will inspire a newfound appreciation for these unsung heroes of the natural world *Field Guide to the Lichens of Great Smoky Mountains National Park* Erin Tripp, James Lendemer, 2024-01-12 With 909 recognized species of lichens Great Smoky Mountains National Park GSMNP is home to more of these lichenized fungi than any other national park in the United States as well as nearly half of all species known to occur in eastern North America There is a great deal of room for scientific exploration inquiry and systematic description in the realm of lichenology In *Field Guide to the Lichens of Great Smoky Mountains National Park* Erin Tripp and James Lendemer take on the formidable task of creating an all in one resource for Park exploration including lichen distribution maps tools for identification vivid photographs and illustrations and even field notes from their own research campaigns In the process the authors create a touchstone for lichen taxonomy and ecology and they inspire others researchers as well as casual observers to take interest in the incredible biodiversity of the Great Smoky Mountains Biologists botanists visitors to the park naturalists and others interested in the flora and fauna of both the southern Appalachians and GSMNP will thoroughly enjoy this lovingly prepared field guide A Field Guide to Eastern Forests, North America John C. Kricher, 1998 Provides an introduction to patterns of forest ecology looks at each of the major forest types of eastern North America examines changes that occur as abandoned fields turn into forests features background on the process of adaptation and natural selection and describes forest changes in each of the four seasons The Lives of Lichens Robert Lücking, Toby Spribille, 2024-06-04 A richly illustrated guide to lichens and their biology Existing at the margins of life lichens are the result of symbiotic relationships between fungi and photosynthesizing partners in the form of algae or cyanobacteria Comprising more than twenty thousand species lichens are pioneers in diverse ecosystems colonizing virtually any surface and growing at almost any altitude Found in rainforests polar regions deserts and your backyard lichens embody a paradox of toughness and sensitivity surviving trips to space yet endangered by even the slightest environmental changes from industrial pollution here on Earth Lichens grow everywhere but only on their own terms no one has ever fully assembled a lichen in the lab from its component parts *The Lives of Lichens* explores all facets of these peculiar organisms blending stunning macrophotography and graphics with in depth coverage of profiled species to

provide an unforgettable tour of the marvelous world of lichens Features a wealth of color illustrations Covers symbiosis biology architecture evolution taxonomy and much more Provides an up close look at lichens in their ecosystems Discusses human relationships with lichens Essential reading for nature lovers everywhere Kaufman Field Guide to Insects of North America Eric R. Eaton,Kenn Kaufman,2007 A comprehensive guide to the insects of North America contains information including life histories behaviors and habitats on every major group of insects found north of Mexico A Field Guide to Ferns Boughton Cobb,1999-03 Identifies over five hundred species *Lichens of North America* Irwin M. Brodo,Sylvia Duran Sharnoff,Stephen Sharnoff,Canadian Museum of Nature,2001-01-01 Lichens are a unique form of plant life the product of a symbiotic association between an alga and a fungus The beauty and importance of lichens have long been overlooked despite their abundance and diversity in most parts of North America and elsewhere in the world This stunning book the first accessible and authoritative guidebook to lichens of the North American continent fills the gap presenting superb color photographs descriptions distribution maps and keys for identifying the most common conspicuous or ecologically significant species The book focuses on 805 foliose fruticose and crustose lichens the latter rarely included in popular guidebooks and presents information on another 700 species in the keys or notes special attention is given to species endemic to North America A comprehensive introduction discusses the biology structure uses and ecological significance of lichens and is illustrated with 90 additional color photos and many line drawings English names are provided for most species and the book also includes a glossary that explains technical terms This visually rich and informative book will open the eyes of nature lovers everywhere to the fascinating world of lichens *A Field Guide to Hummingbirds of North America* Sheri Williamson,2001 An identification guide to hummingbirds in Canada the U S and northern Mexico that profiles thirty one species describes their sounds behaviors and habitats and provides color plates and distribution maps A Field Guide to Cape Cod Patrick J. Lynch,2018-11-02 A richly illustrated full color guide to the unique plants wildlife and environments of Cape Cod and the other nearby Outer Lands that face the Atlantic Ocean This essential guidebook presents the most abundantly illustrated and fascinating account of the natural history of Cape Cod its nearby islands Block Island the western coast of Rhode Island and southeastern Long Island ever published Exploring the ecology and most common plants and animals of the various regional environments beaches dunes salt marshes heathlands and coastal forests the book also encompasses marine mammals sea turtles and fish offshore For nature loving local residents and visitors alike this essential book will be a treasured resource *Common Interior Alaska Cryptogams* Gary A. Laursen,Rodney D. Seppelt,2010-03-15 With Common Interior Alaska Cryptogams Gary A Laursen and Rodney Seppelt offer the first field guide to cryptogams of the Denali National Park and Preserve Useful to both lay and professional investigators this fully illustrated compendium covers mushroom fungi lichenized fungi lichenicolous fungi slime molds mosses and liverworts This field guide to commonly seen cryptogams will provide a basis for understanding their vast diversity of taxa speciation edibility relative abundance and

utility as well as the ecological roles played by these organisms

Backpacking Wisconsin Jack Parker Hailman, Elizabeth

D. Hailman, 2000 Wisconsin is a premier backpacking state with outstanding opportunities for weekend trips With its Great Lakes and river boundaries national and state parks and forests and stunning geological diversity it offers a variety of experiences for both novice and experienced backpackers In *Backpacking Wisconsin* Jack and Liz Hailman drawing on years of personal experience provide first hand information for trails in every corner of the state from the wooded Apostle Islands National Lakeshore inhabited by whitetailed deer and black bears to picturesque Newport State Park in Door County set upon Silurian age limestone laid down over 100 million years ago For each backpacking site you ll find information on entrance fees and permits campsites contact sources directions to the location detailed trail maps with keys that pinpoint roads parking trail shelters water supplies outhouses ratings for trails scenery quiet solitude and interest background information on history geology and terrain trail notes describing trees shrubs wildflowers birds and animals you may encounter *Backpacking Wisconsin* also provides an overview of the backpacking experience tips for the beginner and the expert hints on how to choose equipment boots packs tents sleeping bags rain gear stoves notes on troublesome plants and animals a list of state areas that no longer offer backpacking schedules of fees a checklist for backpacks and a list of trail outdoor and conservation organizations For those hesitant to venture deep into wilderness the Hailmans spotlight quasi backpacking sites All you have to do is pick a trail

Common Mosses, Liverworts, and Lichens of Ohio Robert

Klips, 2022-08-30 This engaging illustrated guidebook reveals the fascinating mosses and lichens that homeowners outdoorspeople and nature lovers encounter every day in Ohio and the Midwest In this guide to the most common and distinctive moss liverwort and lichen species in Ohio readers will find concise physical descriptions facts about natural history and ecology and tips to distinguish look alike species all presented in a friendly conversational tone Featuring detailed photographs of the plant and plantlike species in their natural settings the book covers 106 mosses thirty liverworts and one hundred lichens and offers several avenues to match a specimen to its description page Where They Grow chapters spotlight species commonly encountered on field outings and field keys to help readers quickly identify unfamiliar samples While designed primarily as an identification tool this guide also frames moss and lichen spotting in a scientific context The two main sections bryophytes and lichens detail their respective taxonomic kingdoms explain their life cycles and means of reproduction and illustrate variation in the traits used for identification The book is an introduction to the biology of these intriguing but too often overlooked organisms and a means to enjoy identify and catalog the biodiversity all around us

Fungi Peter Roberts, Shelley Evans, 2021-06 *Fungi* is a richly detailed and beautifully illustrated book which tells you everything you need to know about these fascinating organisms Fungi are an indispensable part of the great chain of life more than 90% of the world s plant species depend on them for their nutrition There are believed to be about 1.5 million species thriving in virtually every habitat from temperate to tropical Antarctic to marine Using beautifully coloured illustrations this

book dips into the whole range showcasing the unusual the familiar the poisonous and the delicious and sharing the stories of puffballs deadly webcaps and devils fingers among others Some are cultivated for use in different cuisines while others are heralded for their hallucinogenic properties or valued for use in medicine Essential information on distribution uses and growth partnerships is included for each species featured as well as stunning Weird alluring and mysterious get to know what makes mushrooms magic in this handy colourful book

Craft of the Dyer Karen Leigh Casselman,2013-02-19 Here is a complete guide to making your own dye from a wide variety of plants acorn to zinnia Covers dyeing procedures mordants preparing fibers every step List of suppliers Bibliography

Heartland Habitats Mary Blocksma,2020-02-04 Star shaped flowers short tempered snapping turtles and clusters of chicken flavored mushrooms are just a few of the many fascinating things awaiting discovery just beyond the typical North American backyard In Heartland Habitats 265 Midwest Nature Walks Mary Blocksma guides readers through North American terrain introducing them to the land and its thriving wildlife of Minnesota Iowa Missouri Wisconsin Illinois Michigan Indiana and Ohio From birds of all kinds to fungi of both the tasty and deadly varieties Chicken of the Woods Death Caps Jack O Lanterns Blocksma gradually uncovers a world rich with breathtaking beauty Adventures filled with swan on goose battles squirrel squabbles and forays into forests all lead to a deeper understanding of the world around us A lively and detailed guide in befriending the great outdoors Heartland Habitats showcases the natural wonders thriving just outside our homes with full color illustrations and vivid descriptions

Manual of Field Biology and Ecology Allen H. Benton,1986-10

A Naturalist's Guide to Field Plants Donald D. Cox,2005-01-01 In this comprehensive volume Donald D Cox gathers substantial data on simple field plants in Eastern North America and with great clarity he studies their profound impact on regional ecosystems and the ecology of the earth This includes origins and types of soils and how these soils relate to vegetation climate and human culture plants and fungi growth in fields adaptations for survival field plant reproduction and seed dispersal and toxic medicinal and edible plants that flourish in fields Cox provides complete and accurate details for readers interested in collecting and or preserving field plants He focuses on field conservation and habitat preservation throughout the book A final chapter offers special projects and investigations for those who wish to go a step beyond collecting and identifying plants This book is an indispensable reference for professional and amateur naturalists as well as students and the general public

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