

Fungi of the Perth Region and Beyond

A Self-Managed Field Book



Revised 2017

Neale L. Bougher

Fungi of the Perth Region and Beyond

A Self-Managed Field Book

Neale L. Bougher



Western Australian Naturalists' Club (Inc.)
Perth

Fungi of the Perth Region and Beyond

Neale L. Bougher

Published by Western Australian Naturalists' Club (Inc.)
Perth, Western Australia

1st Edition May 2009 Fungi of the Perth Region and Beyond

1st Edition Revised March 2017 Fungi of the Perth Region and Beyond

Copyright © text: Neale L. Bougher

Copyright © images: Neale L. Bougher (unless otherwise indicated).

All rights reserved. *Copying is subject to the following conditions:*

- Approval is granted to reproduce this book in whole or in part, for personal and educational purposes only.
- Electronic storage of data or images from the printed or on-line versions of this book and retrieval or transmission in any form from such storage is not permitted for any other purposes.
- Written permission is required prior to any potential commercial applications or non-personal reproduction or distribution.
- The images will be used as is: e.g. cropping is not permitted.
- Complete citation of this book as given below must accompany any reproductions from this book.

This book may be downloaded from www.wanaturalists.org.au

This book should be cited as:

Bougher, N. L. (2009, revised 2017). *Fungi of the Perth Region and Beyond: A self-managed field book*. Western Australian Naturalists' Club (Inc.), Perth, Western Australia.

[If downloaded add: <http://www.wanaturalists.org.au> (*date accessed*)]

National Library of Australia

Original Cataloguing-in-Publication entry:

Bougher, Neale Lorne.

Fungi of the Perth Region and Beyond : A self-managed field book / Neale L. Bougher.

1st ed.

ISBN 9780980641707 (pbk.).

Includes index.

1. Fungi--Western Australia--Perth. 2. Fungi--Western Australia--Perth--Identification. 3. Fungi--Western Australia--South-West. 4. Fungi--Western Australia--South-West--Identification.

579.5099411

Image on Cover: Tall Stiltball (see page L-9).

Acknowledgements

This book was originally conceived to address the objectives of the Perth Urban Bushland Fungi (PUBF) project (2004 - 2009) and also to support those of the Department of Parks and Wildlife, the Western Australian Naturalists' Club, and the Urban Bushland Council. PUBF activities were the result of a core team that included Neale Bougher (Mycologist 2004-2009), Brett Glossop (Data and Web Management, Electronic Presentation 2007-2009), Roz Hart (Community Education Officer 2004-2009), and Sarah de Bueger (Project Officer, 2006-2009). Earlier assistance from Jac Keelan-Wake (Administrative Support 2004-2005), and from volunteer John Weaver who provided the initial electronic design and technical expertise that resulted in the 1st edition of this field book is gratefully acknowledged.

The author acknowledges the tremendous support received from the various community groups that were involved with the PUBF project. In particular he wishes to acknowledge the group leaders, photographers and volunteers in the field and laboratory who have given generously of their time and efforts to ensure the success of this project.

Perth Urban Bushland Fungi (PUBF) was a collaborative project between the Western Australian Naturalists' Club and the Urban Bushland Council in conjunction with the Department of Environment and Conservation, Western Australian Herbarium. The PUBF project was supported by Lotterywest.



Department of
Parks and Wildlife



Contents

Acknowledgements	iii
Introduction	vii
When to see fungi in the Perth Region	viii
Fungi Biodiversity and Conservation	ix
Fungi Names	x
Index: Common & Scientific Names	xii
Visual Index – Ascomycetes	xviii
Visual Index – Basidiomycetes	xx
Visual Index – Glomeromycetes & Zygomycetes	xxxv
Visual Index – Slime Moulds	xxxv
<hr/>	
Species Descriptions	
Ascomycetes	A-E
Cup and Disc Fungi	A
Earth Tongues & Morels	B
Pustular & Miniscule Fungi	C
Various Ascomycetes	D
Truffle Fungi	E
Basidiomycetes	I-R
Truffle Fungi	I
Mushrooms & Toadstools with Gills	J
Boletes – Fleshy Mushrooms,	
Toadstools with Pores	K
Puffballs, Earthballs, Stinkhorns	
Cannonballs & Birds Nests	L
Coral & Club Fungi	M
Bracket & Shelf Fungi &	
Tough Fungi with Pores	N
Resupinates – Skin, Crust and Paint Fungi	O
Toothed Fungi	P
Jelly & Ear Fungi	Q
Various Basidiomycetes	R
Glomeromycetes & Zygomycetes	Y
Slime Moulds	Z
<hr/>	
Spore Colour Guide	ccxl
Checklist	ccxliv
Additions, Errors, Omissions and Corrections	cclxiv
Blank Description Sheet	cclxvii

Introduction

Fungi of the Perth Region and Beyond A self-managed Field Book

One of the best ways initially to learn about fungi is to recognise and identify some individual species of fungi. A useful way to do this is to carry a field book with photographs of fungi. Because fungi species often appear slightly different in different regions such a guide is especially useful if the photographs are of examples of fungi species as they appear in a local habitat.

This field book is provided to meet these needs for fungi of the Perth Region, Western Australia. The book is titled "... and Beyond" because many of the fungi presented can be found beyond the Perth region throughout south west Australia and over much of southern Australia. Some are even more widespread.

The book is presented as an expanding '*work in progress*'. Photographs and information about different fungi have been, and will continue to be, added to subsequent editions of the field book. At least one photograph of each fungus is provided. Each fungus occupies one page so that the order in which they are arranged can reflect your preference. The book is arranged such as to enable additions, e.g. pagination and arrangement of fungi into broad groups. This has the advantage of enabling new pages of each broad group simply to be appended into previous editions, but has the disadvantage of not presenting fungi species together in consecutive pages within their genera. Users of this book may choose to arrange printed pages into genera, or to maintain the pages in numerical order and rely upon the index to find all fungi of any particular genus.

There are several sections at the back of this book which provide additional help to users. These include an "Additions, errors, omissions and corrections" section which outlines the changes in subsequent editions of the book. The information in this section enables users to select the particular pages they may need to print out in order to append to, or substitute into, their copy of a previous edition. A "Spore colour guide" is provided to group the fungi according to the colour of their spore print. The text associated with this guide explains about how to make a spore print. A "Checklist" is provided to enable users to summarize their sightings of each of the fungi presented in this book.

Information about each fungus is given in the following format:

PHOTOGRAPH	
COMMON NAME: Golden Wood Fungus ■ (if a Fungimap target species)	
SCIENTIFIC NAME: <i>Gymnopilus allantopus</i>	
HABITAT: On dead wood.	LIFE MODE: Decomposer.
CHARACTERISTICS AND DISTINCTIVE FEATURES.	
<ul style="list-style-type: none"> ▪ SIZE: cap 10-40 mm: ▪ SPORE PRINT COLOUR: bright ochre brown: 	
Notes	
(Blank section for <u>adding your own</u> notes and diagrams for each fungus)	

Fungimap target species are a group of easily identifiable fungi selected by the Fungimap project. Fungimap aims to create distribution maps of these fungi in Australia. The Fungimap project encourages people to send them their records and photographs of target fungi. Please see the Fungimap website for further details.

The current (2017) revision of the field guide does not add more species onto the 2009 field guide. However it does update many species names in light of recent taxonomic studies and where previous errors were evident. Also the revision flags fungi that have become *Fungimap* target species since the 2009 edition. A list of updated species names and Fungimap targets is provided at the back of this guide.

When to see fungi in the Perth Region

Fungi may fruit at any time of the year in temperate regions such as around Perth, but in this region there can be at least two distinct, but highly variable fruiting periods:

February to April: There are often one or more brief flushes of fungi in Perth's parks, lawns and gardens during the early months of the year. Warm, humid days coinciding with bursts of rain or humidity will often entice the fruiting bodies of some fungi to appear. Many respond rapidly, fruit briefly and disappear, such as the Conehead Fungus on lawns (see page J-22), and some Ink Caps that wither by early morning such as the Hairy Ink Cap on woodchips (p. J-8). The early responding fungi also include some fungi that favour disturbed areas such as the quite long-lasting dog poo

fungus *Pisolithus* (p. L-3), and also some fungi common to tropical or subtropical regions such as the Green-gilled Mushroom (p. J-41).

May to July: In Perth's natural bushlands most fungal fruiting bodies do not appear until after the onset of substantial autumn rains. Mid June to mid July is usually the peak time to search for bushland fungi in the greater Perth region, but any time from mid-May through to late July is usually a fruitful period. Several early-season species of large boletes such as the Variable Gyroporus (p. K-3), and Amanitas such as the Small Warty Tuart Amanita (p. J-62) often herald the start of the local bushland fungi season, usually some time in May. Other fungi species appear in succession for various lengths of time over the duration of "the fungi season".

Some people swear by their favourite locations around the Perth region as dependable treasure-troves of fungi. But generally fungi are not reliable beasts. Most fungi do not fruit at precisely the same location year after year—mostly they fruit only once or perhaps intermittently at the same spot. However, a few fungi have proven to be quite predictable, such as the giant Cleland's Gilled Bolete (p. K-5) which has been conspicuous under gum trees alongside May Drive in Perth's Kings Park during the month of May every year since at least the early 1970's.

Fungi Biodiversity and Conservation

There are probably at least 10 times more species of fungi than plants in the world. For Western Australia that equates to about 140,000 fungi and 14,000 plant species. No one really knows how many fungi we have. Many are yet to be discovered and named. Most fungi are microscopic but probably at least several thousand species are macrofungi of the types in this book. Most bushlands in Perth region have not been surveyed for fungi, or poorly surveyed, including Perth's renowned Kings Park. However it is likely that many thousands of fungi species occur in the region, including many hundreds of macrofungi. Over 350 species of macrofungi have been recorded so far in recent surveys at Bold Park, one of Perth's major inner urban bushlands (437 hectares).

The Perth region is blessed with numerous bushlands that harbour colourful displays of local Flora, Fauna, and Fungi. Without fungi many plants and animals in the bushlands would struggle to thrive. Fungal networks recycle and distribute precious nutrients throughout bushlands. Many native plants such as eucalypts, wattles, and orchids have symbiotic mycorrhizal partnerships with fungi. The fungi act like an extra root

system by extracting nutrients from soil and supplying nutrients to the plants. Fungi also provide food and/or habitat for many animals ranging from bandicoots and woylies to beetles and flies. Flora, Fauna and Fungi and the interdependencies between them need to be understood and managed in order to nurture bushlands in the Perth region and beyond.

Fungi are protected biodiversity in Western Australia. You need a licence to collect fungi on public land in this State. A licence is required from the Department of Environment and Conservation (DEC) and/or the managing agency of particular bushlands, e.g. the Botanic Gardens and Park Authority for Kings Park and Bold Park. Some fungi may be rare or restricted, and some are listed on WA's Flora Conservation Codes, e.g. the Pink-gilled Amanita (p. J-32).

**Only collect fungi if you have a real purpose and a licence.
Otherwise look, perhaps photograph, and leave.**

Fungi Names

The scientific names of fungi sometimes reflect a distinguishing feature of the fungus, e.g. *Hydnangium carneum* (p. I-2) is pink (*carneus* – Latin, flesh-coloured). Unfortunately, the scientific names of many fungi can be less informative and difficult to pronounce or remember. In recent years the scientific names of many fungi have been changing rapidly, particularly due to molecular revelations. Many fungi or groups of fungi previously assigned to a particular genus because of their similar appearance are being dispersed and assigned new names. e.g. In 2001 most of the Ink Caps were split up from the old familiar genus *Coprinus* into *Coprinellus*, *Coprinopsis* and *Parasola*. In this book names current at the time are given for the fungi, e.g. Red Woodchips Fungus (p. J-29) formerly widely known as *Stropharia aurantiaca* is presented as *Leratiomyces ceres*. Names will continue to be updated in subsequent editions when necessary. The common or informal names given for many fungi in this book are either widely adopted, or names coined by locals in the Perth region, e.g. *Calocera guepinoides* (p. Q-1) locally has been likened to the ginger stubble of a Scotsman's Beard. Many fungi have so far defied a meaningful common name. Suggestions are welcome.

A small number of fungi without a species name are included in this book. These are included because of their distinctive nature. Far more could have been included but they are restricted in number in preference

for including identified fungi in the book. In such cases an informal descriptor is used for a distinguishing feature of the fungus, e.g. *Amanita* sp. “sour yellow stainer” (p. J-61). Further studies are required to determine if such fungi match named species or are new species to Science. Also requiring further studies are a number of species in this book designated “aff.” e.g. *Gyroporus aff. cyanescens* (p. K-3), or as “cf.” e.g. *Heterotextus cf. peziziformis* (p. Q-4). The local fungus is considered to be very similar to, or affiliated with, a known species but may not be identical.

To facilitate future studies, the specimens photographed for each fungus in this book are permanently lodged at the Western Australian Herbarium (PERTH).

Index: Common and Scientific Names

Some fungi do not have common names assigned to them. If you are able to suggest a common name please contact PUBF.

☐ = *Fungimap* target species

Yellow shading = new names in this revised edition

A













A Banksia Cup fungus	A-8
A Stone Truffle	I-9
A Wood Ear	Q-3
<i>Abortiporus biennis</i>	N-15
<i>Agaricus californicus</i>	J-52
<i>Agaricus campestris</i>	J-53
<i>Agaricus rotalis</i>	J-31
<i>Agaricus subrufescens</i>	J-54
<i>Agrocybe pediades</i>	J-1
<i>Aleurina ferruginea</i>	A-1 ☐
<i>Aleurodiscus cf. mirabilis</i>	R-3 ☐
Almond Mushroom	J-54
<i>Amanita carneiphylla</i>	J-32
<i>Amanita ochroterrea</i>	J-96
<i>Amanita</i> sp. "grey-powdery"	J-56
<i>Amanita preissii</i>	J-58
<i>Amanita conicobulbosa</i>	J-59
<i>Amanita fibrilloses</i>	J-60
<i>Amanita</i> sp. "small warty tuart"	J-62
<i>Amanita</i> sp. "sour yellow stainer"	J-61
<i>Amanita</i> sp. "xanthocephala-like"	J-57
<i>Amanita cf. umbrinella</i>	J-36
<i>Amanita xanthocephala</i>	J-55




<i>Amphinema byssoides</i>	O-1
<i>Anthracophyllum archeri</i>	J-63 ☐
<i>Arachnopeziza aurata</i>	A-7
<i>Arcangeliiella daucina</i>	I-15
Archer's Cortinar	J-34 ☐
<i>Armillaria luteobubalina</i>	J-2 ☐
<i>Asterostroma persimile</i>	O-2
<i>Auricularia cornea</i>	Q-3
<i>Auriscalpium barbatum</i>	P-1
Australian Honey Fungus	J-2 ☐
<i>Austrogautieria manjimupana</i>	I-4
<i>Austropaxillus muelleri</i>	J-64

B

<i>Badhamia foliicola</i>	Z-1
<i>Banksiamyces cf. toomansis</i>	A-8
<i>Battarrea stevenii</i>	L-9 ☐
Bearded Tooth Fungus	P-1
Beefsteak Fungus	N-9 ☐
Bird's Nest Fungus	L-7
Bird's Nest Fungus2	L-8
<i>Bisporella citrina</i>	A-10
Black Morel	B-2 ☐
Bleeding Mycena	J-82
Blushing Rosette	N-15
<i>Bolbitius titubans</i> var. <i>olivaceus</i>	J-70
<i>Bolbitius titubans</i>	J-3 ☐
<i>Boletellus obscurecoccineus</i>	K-1 ☐
<i>Boletus</i> sp.	K-2
<i>Botryobasidium subcoronatum</i>	O-8
Brick Red Laccaria	J-17
Bridal Creeper Rust Fungus	R-5
Burgundy Psathyrella	J-98
Byss Skin Fungus	O-3 ☐
<i>Byssomerulius corium</i>	O-3 ☐
<i>Byssonectria fusispora</i>	A-5

C




Californian Agaricus	J-52
Calocera guepinoides	Q-1
Calvatia sp. "pyramidal warts"	L-12
Campanella gregaria	J-66
Candle Snuff Fungus	D-2
Cannonball Fungus	L-5 
Ceratomyxa fruticulosa	Z-2 
Chlorophyllum brunneum	J-41 
Chlorophyllum molybdites	J-67 
Cinnamon-ring Lepidella	J-58 
Clarke's Pixie Cap	J-38
Clavulina vinaceocervina	M-3
Cleland's Gilled Bolete	K-5
Clitocybe kenkulunea	J-68
Clitocybe semiocculta	J-4
Collared Earthstar	L-11
Collinitus Slippery Jack	K-7
Coltricia cinnamomea	N-1
Coltriciella dependens	N-10 
Colus pusillus	L-1 
Common Agrocybe	J-1
Common Pholiota	J-26
Common Rosegill	J-30 
Common Tubaria	J-88
Conehead Fungus	J-22
Conical Wax Cap	J-91
Conocybe apala	J-97
Coprinellus pyrghanthes	J-69 
Coprinellus flocculosus	J-6
Coprinellus impatiens	J-7
Coprinellus truncorum	J-10
Coprinopsis aff. stangliana	J-5
Coprinopsis lagopus	J-8
Coral Polyps	R-4
Cortinarius archeri	J-34 
Cortinarius ochraceofulvus	J-11
Cortinarius microarcheri	J-49
Cortinarius persplendidus	J-72 
Cortinarius phalarus	J-12 

Cortinarius sinapicolor	J-39 
Cortinarius piriformis	I-16
Cortinarius	J-90
vinaceolamellatus	
Creopus gelatinosa	D-4 
Crepidotus eucalyptorum	J-13
Crepidotus prostratus	J-35
Curry Punk	N-7 
Cute Baubles	Z-3
Cyathus olla	L-7
Cyathus stercoreus	L-8
Cystangium balpineum	I-1

D

Dark Melanoleuca	J-19
Dark Pinkgill	J-14
Dermocybe sp. "clelandii-like white mycelium"	J-99
Dermocybe splendida	J-72 
Descolea rheophylla	I-3
Descolea maculata	J-33 
Descomyces albus	I-10
Descomyces angustisporus	I-14
Diachea leucopoda	Z-6
Dog Poo Fungus	L-3
Dog Vomit Slime Mould	Z-4 
Dung Buttons	D-1 
Dung Cap Psilocybe	J-95
Dung Mottlegill	J-83
Dusky Helmets	J-23

E

Earth Tongue	B-1
Earthballs	L-4
Egg Yolk Fungus	J-3 
Entoloma moongum	J-14
Entoloma viridomarginatum	J-43 
Erupting Russula	J-28
Eucalypt Crepidotus	J-13
Eyelash Cup Fungus	A-4 

F

Fairy Wands	M-2	☑
Fan Pax	J-46	
Field Mushroom	J-53	
<i>Fistulina hepatica</i>	N-9	☑
<i>Fistulina spiculifera</i>	N-9	☑
Flat Black Cup Fungus	A-9	
Flesh-coloured Coral Fungus	M-3	
Fleshy Cup Fungus	A-1	☑
Flocculose Ink Cap	J-6	
<i>Fomitiporia robusta</i>	N-6	
<i>Fuligo septica</i>	Z-4	☑
<i>Funneliformis caledonium</i>	Y-2	

G

<i>Geastrum triplex</i>	L-11	
<i>Geoglossum cookeanum</i>	B-1	
Ghost Fungus	J-21	☑
Glistening Ink Cap	J-10	
Golden Splash Tooth	O-4	☑
Golden Tuart Cortinarius	J-11	
Golden Wood Fungus	J-15	☑
Green-edge Pinkgill	J-43	☑
Green-gilled Mushroom	J-67	☑
Gregarious Shells	J-66	
Grey Pixie Cap	J-47	
Grey Powdery Amanita	J-56	
Greyish Jelly Truffle	I-12	
<i>Cystangium sp.</i>	I-7	
<i>Gymnopilus allantopus</i>	J-15	☑
<i>Gymnopilus junonius</i>	J-101	☑
<i>Gyrodontium sacchari</i>	O-9	
<i>Gyroporus aff. cyanescens</i>	K-3	

H

Hadrian's Stinkhorn	L-10	
Hairy Ink Cap	J-8	
Hairy Panus	J-24	☑

Hairy Stereum	N-13	☑
Hakea Tar Spots	C-2	
Hedgehog Tooth Fungus	P-2	☑
Horsehair Fungus	J-80	
<i>Harknessia uromycoides</i>	C-1	
<i>Hebeloma crustuliniforme</i>	J-73	
<i>Henningsomyces candidus</i>	R-1	☑
<i>Heterotextus cf. peziziformis</i>	Q-4	☑
<i>Hexagonia vesparia</i>	N-3	☑
<i>Hohenbuehelia bingarra</i>	J-74	
<i>Hohenbuehelia ligulata</i>	J-84	
<i>Hydnangium carneum</i>	I-2	
<i>Hydnum repandum</i>	P-2	☑
<i>Hydnoplicata convoluta</i>	E-1	
<i>Hygrocybe conica</i>	J-91	
<i>Hymenopellis mundroola</i>	J-89	
<i>Hyphodontia arguta</i>	O-7	
<i>Hypholoma australe</i>	J-50	
<i>Hypocrea gelatinosa</i>	D-4	☑
<i>Hypocrea lixii</i>	D-5	
<i>Hypomyces rosellus</i>	D-3	
<i>Hysterangium sp.</i>	I-8	

I

Icicle Fairy Fans	Z-2	☑
Impatient Ink Cap	J-7	
<i>Inocybe serrata complex</i>	J-71	
<i>Inocybe sp.</i>	J-75	
<i>Inocybe violaceocaulis</i>	J-16	☑

L

Labyrinthine Truffle	E-2	
<i>Labyrinthomyces varius</i>	E-2	
<i>Laccaria lateritia</i>	J-17	
<i>Laccaria proxima</i>	J-92	
<i>Laccocephalum tumulosum</i>	N-11	
<i>Lachnum virgineum</i>	A-6	
<i>Lactarius eucalypti</i>	J-76	☑
<i>Laetiporus portentosus</i>	N-4	☑
<i>Lasiosphaeria ovina</i>	A-2	
Lavender-pored Bracket	N-5	

Fungus

Lemon Disco A-10

Lentinellus pulvinulus J-77

Leocarpus fragilis Z-7 ☑

Lepiota exocarpi J-93

Leratiomyces ceres J-29 ☑

Leucoagaricus meleagris J-42

Leucoagaricus leucothites J-18 ☑

Lichenomphalia chromacea J-78 ☑

Lilac Bracket Fungus N-2

Limacella pitereka J-79 ☑

M

Macrotyphula juncea M-2 ☑

Marasmius crinisequi J-80

Melanoleuca cf. fusca J-19

Merismodes anomala R-4

Mesophellia brevispora I-9

Milky Cone Cap J-97

Miniature Chimney Pots R-1 ☑

Morchella elata B-2 ☑

Mueller's Funnel Cap J-64

Mundroola Rooting Shank J-89

Mycena clarkeana J-38

Mycena kuurkacea J-82

Mycena nargan J-20 ☑

Mycena sp. "chlorine grey-cap on soil" J-100

Mycena subgalericulata J-47

Mycena tenerrima J-81

Mycenastrum corium L-2

Mycoacia subceracea O-4 ☑

N

Nothocastoreum cretaceum I-11

O

Ochre Amanita J-58

Olive Wrinkled Bolbitus J-70

Omphalina chromacea J-78 ☑

Omphalotus nidiformis J-21 ☑

Orange Aleurodiscus R-3

Orange Fan J-63

Orange Moss cap J-27

P

Pagoda Fungus K-8 ☑

Panaeolopsis nirimbi J-22

Panaeolus fimicola J-23

Panaeolus papilionaceus J-83

Panus fasciatus J-24 ☑

Parasol Ink Cap J-9

Parasola plicatilis J-9

Paxillus involutus J-25

Peach Amanita J-60

Pear-shaped Thaxterogaster I-16

Peziza repanda A-11

Phaeotrametes decipiens N-5

Phallus hadriani L-10

Phlebia rufa O-5

Phlebia subceracea O-4 ☑

Phlebiopsis crassa O-10

Pholiota communis J-26

Phyllachora amplexicaulis C-2

Phylloporus clelandii K-5

Picipes badius N-12

Pilobolus sp. Y-1

Pin Wheel Agaricus J-31

Pine Skin Fungus O-1

Pink False Truffle I-2

Pink-gilled Amanita J-32

Piptoporus australiensis N-7 ☑

Pisolithus hypogaeus I-6

Pisolithus species L-3

Pleuroflammula praestans J-48

Pleurotus australis J-45 ☑


Plicaria cf. alveolata A-9

Plum and Custard Fungus J-37


Pluteus pauperculus J-44


Pluteus petasatus J-65

Podoserpula pusio K-8 ☑

Poison Pax	J-25	Scotsman's Beard	Q-1
Poison Pie	J-73	<i>Scutellinia scutellata</i>	A-4 
<i>Poronia erici</i>	D-1 	<i>Setchelliogaster tenuipes</i>	I-3
<i>Protuberia canescens</i>	I-12	Shaggy Parasol	J-41 
<i>Psathyrella bipellis</i>	J-98	Shotgun Fungus	Y-1
<i>Psathyrella echinata</i>	J-85 	Shy Funnel Cap	J-4
<i>Psilocybe coprophila</i>	J-95	Slender Coral Fungus	M-1
<i>Puccinia myrsiphylli</i>	R-5	Slimacella	J-79 
<i>Pulvinula archeri</i>	A-3	Slime Mould (<i>Badhamia</i>	Z-1
Purplish Stereum	O-6	<i>foliicola</i>)	
<i>Pycnoporus coccineus</i>	N-8	Slime Mould (<i>Ceratiomyxa</i>	Z-2 
		<i>fruticulosa</i>)	
		Slime Mould (<i>Diachea</i>	Z-6
		<i>leucopoda</i>)	
		Slime Mould (<i>Fuligo</i>	Z-4 
		<i>septica</i>)	
		Slime Mould (<i>Leocarpus</i>	Z-7
		<i>fragilis</i>)	
		Slime Mould (<i>Stemonitis</i>	Z-5
		<i>sp.</i>)	
		Slime Mould (<i>Trichia</i>	Z-3
		<i>decipiens</i>)	
		Slimy Yellow Cortinar	J-39 
		Slippery Jack	K-6
		Small Grey Anemone	J-51
		Small Warty Tuart	J-62
		Amanita	
		Smooth Parasol	J-18 
		Southern Hypholoma	J-50
		Southern Oyster	J-45 
		Mushroom	
		Sour Yellow-staining	J-61
		Amanita	
		Spectacular Rustgill	J-101
		<i>Sphaerobolus stellatus</i>	L-5 
		Spiny Psathyrella	J-85 
		Splendid Red Skinhead	J-72
		Split Pore Crust	O-12
		Split-gill Fungus	R-2 
		Spotted Descolea	J-33 
		Spotted Pixie Cap	J-20 
		Stalked Puffballs	L-6

S

Scarlet Bracket Fungus	N-8
<i>Schizophyllum commune</i>	R-2 
<i>Schizopora paradoxa</i>	O-12
<i>Scleroderma</i> sp	I-5
(underground)	
<i>Scleroderma</i> species	L-4

<i>Stemonitis</i> species	Z-5
<i>Stereum hirsutum</i>	N-13 
Stonemaker Fungus	N-11
Strawberry Slime Mould	Z-8
<i>Stropharia aurantia</i>	J-29
<i>Suillus collinitus</i>	K-7
<i>Suillus luteus</i>	K-6




T

Tall Stiltball	L-9 
<i>Tapinella panuoides</i>	J-46
Teal green cushions	D-5
Tennis Ball Puffball	L-2
Terracotta Milk Truffle	I-15
Terracotta Mushroom	J-76 
Tiny Tongue	J-84
<i>Thaxterogaster piriformis</i>	I-16
Tough Cinnamon fungus	N-1
<i>Trametes coccinea</i>	N-8
<i>Trametes versicolor</i>	N-14
<i>Trechispora farinacea</i>	O-11
<i>Tremella mesenterica</i> group	Q-2 
<i>Trichia decipiens</i>	Z-3
<i>Tricholomopsis rutilans</i>	J-37
Truffle-like Descolea	I-3
Truffle-like Peziza	E-1
Tuart Nut Fungus	C-1
<i>Tubaria serrulata</i>	J-88
<i>Tubifera ferruginosa</i>	Z-8
<i>Tulostoma</i> sp.	L-6
<i>Tylophilus</i> sp.	K-4



U

Underground Dog Poo	I-6
Fungus	
Underground Scleroderma	I-5

V

Variable Gyroporus	K-3
Vermillion Grisette	J-55
Violet Skin Fungus	O-10
Violet Stem Fibre Cap	J-16 
Voluate Cortinar	J-12 
<i>Volvopluteus gloiocephalus</i>	J-30 


W

Wasp Nest Polypore	N-3 
Western Australian Magpie	J-5
Fungus	
White Punk	N-4 
White Sessile Truffle	I-1
Woody Layered Bracket	N-6
Fungus	
Woolly and Scaly Button	J-48
Wooly Cup fungus	A-2
Wrinkled Waxy Skin	O-5
Fungus	

X

<i>Xanthocephala</i> look-alike	J-57
Amanita	
<i>Xerula mundroola</i>	J-89
<i>Xylaria hypoxylon</i>	D-2
<i>Xylobolus illudens</i>	O-6

Y

Yellow Brain Fungus	Q-2 
Yellow Cobweb Cup	A-7
Fungus	
Yellow Gilled Pluteus	J-44
Yellow Navel	J-78

Visual Index

Navigation hint: Click the name to go to the description.

Visual Index - Ascomycetes

Cup & Disc Fungi

Pages A



A-1 *Fleshy Cup Fungus*



A-2 *Woolly Cup Fungus*



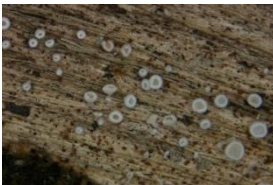
A-3 *Pulvinula archeri*



A-4 *Eyelash Cup Fungus*



A-5 *Byssonectria fusispora*



A-6 *Lachnum virgineum*



A-7 *Yellow Cobweb Cup Fungus*



A-8 *A Banksia Cup fungus*



A-9 *Flat Black Cup Fungus*



A-10 *Lemon Disco*



A-11 *Peziza repanda*

Visual Index

Earth Tongues & Morels

Pages B



B-1 Earth Tongue



B-2 Black Morel

Pustular & Miniscule Fungi

Pages C



C-1 Tuart Nut Fungus



C-2 Hakea Tar Spots

Various Ascomycetes

Pages D



D-1 Dung Buttons



D-2 Candle Snuff Fungus



D-3 Rosy Hypomyces



D-4 *Hypocrea gelatinosa*



D-5 Teal Green Cushions

Truffle Fungi (Ascomycetes)

Pages E



E-1 Truffle-like Peziza



E-2 Labyrinthine Truffle

Visual Index

Visual Index - Basidiomycetes

Truffle Fungi (Basidiomycetes) *Pages I*



I-1 White Sessile Truffle



I-2 Pink False Truffle



I-3 Truffle-like Descolea



I-4 *Austrogautieria manjimupana*



I-5 Underground Scleroderma



I-6 Underground Dog Poo Fungus



I-7 *Cystangium* sp.



I-8 *Hysterangium* sp.



I-9 A Stone Truffle

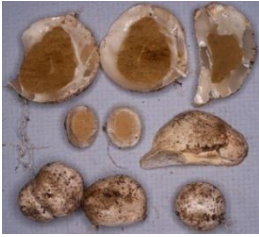


I-10 *Descomyces albus*



I-11 *Nothocastoreum cretaceum*

Visual Index



I-12 Greyish Jelly Truffle



I-13 Rosy Beard Truffle



I-14 *Descomyces angustisporus*



I-15 Terracotta Milk Truffle



I-16 Pear-shaped Thaxterogaster

Mushrooms & Toadstools with Gills

Pages J



J-1 Common Agrocybe



J-2 Australian Honey Fungus



J-3 Egg Yolk Fungus



J-4 Shy Funnel Cap



J-5 W.A. Magpie Fungus

Visual Index



J-6 Flocculose Ink Cap



J-7 Impatient Ink Cap



J-8 Hairy Ink Cap



J-9 Parasol Ink Cap



J-10 Glistening Ink Cap



J-11 Golden Tuart Cortinar



J-12 Volvate Cortinar



J-13 Eucalypt Crepidotus



J-14 Dark Pinkgill



J-15 Golden Wood Fungus



J-16 Violet Stem Fibre Cap



J-17 Brick Red Laccaria



J-18 Smooth Parasol



J-19 Dark Melanoleuca



J-20 Spotted Pixie Cap

Visual Index



J-21 Ghost Fungus



J-22 Conehead Fungus



J-23 Dusky Helmets



J-24 Hairy Panus



J-25 Poison Pax



J-26 Common Pholiota



J-27 Orange Mosscap



J-28 Erupting Russula



J-29 Red Woodchip Fungus



J-30 Common Rosegill



J-31 Pin Wheel Agaricus



J-32 Pink-gilled Amanita



J-33 Spotted Descolea



J-34 Archer's Cortinar



J-35 *Crepidotus prostratus*

Visual Index



J-36 *Amanita umbrinella*



J-37 Plum & Custard
Fungus



J-38 Clarke's Pixie Cap



J-39 Slimy Yellow
Cortinar



J-40 *Rhodocollybia* sp.



J-41 Shaggy Parasol



J-42 *Leucoagaricus*
meleagris



J-43 Green-edge Pinkgill



J-44 Yellow-Gilled Pluteus



J-45 Southern Oyster
Mushroom



J-46 Fan Pax



J-47 Grey Pixie Cap

Visual Index



J-48 Woolly and Scaly Button



J-49 *Cortinarius microarcheri*



J-50 Southern Hypholoma



J-51 Small Grey Anemone



J-52 Californian Agaricus



J-53 Field Mushroom



J-54 Almond Mushroom



J-55 Vermillion Grisette



J-56 Grey Powdery Amanita



J-57 Xanthocephala look-alike Amanita



J-58 Cinnamon-ring Lepidella



J-59 *Amanita carneiphylla*

Visual Index



J-60 Peach *Amanita*



J-61 Sour Yellow-staining
Amanita



J-62 Small Warty Tuart
Amanita



J-63 Orange Fan



J-64 Mueller's Funnel Cap



J-65 *Pluteus petasatus*



J-66 Gregarious Shells



J-67 Green-gilled
Mushroom



J-68 *Clitocybe kenkulunea*



J-69 *Coprinellus*
pyrrhanthes



J-70 Olive Wrinkled
Bolbitius



J-71 *Inocybe serrata*
complex

Visual Index



J-72 *Splendid Red Skinhead*



J-73 *Poison Pie*



J-74 *Hohenbuehelia bingarra*



J-75 *Inocybe sp.*



J-76 *Terracotta Mushroom*



J-77 *Lentinellus pulvinulus*



J-78 *Yellow Navel*



J-79 *Slimacella*



J-80 *Horsehair Fungus*



J-81 *Mycena tenerrima*



J-82 *Bleeding Mycena*



J-83 *Dung Mottlegill*

Visual Index



J-84 Tiny Tongue



J-85 Spiny Psathyrella



J-86 *Resupinatus cinerascens*



J-87 *Russula persanguinea*



J-88 Common Tubaria



J-89 Mundroola Rooting Shank



J-90 *Cortinarius vinaceolamellatus*



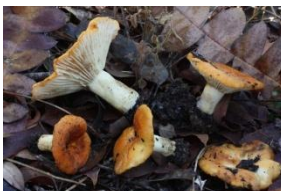
J-91 Conical Wax Cap



J-92 *Laccaria proxima*



J-93 *Lepiota exocarpi*



J-94 *Russula flocktonae*



J-95 Dung Cap Psilococybe

Visual Index



J-96 *Amanita ochroterrea*



J-97 Milky Cone Cap



J-98 Burgundy Psathyrella



J-99 *Dermocybe* sp.
“clelandii-like white
mycelium”



J-100 *Mycena* sp.
“chlorine grey-cap on
soil”



J-101 Spectacular Rustgill

**Boletes;
Fleshy Mushrooms
& Toadstools with
Pores**
Pages K



K-1 Rhubarb Bolete



K-2 Red-capped Bolete



K-3 Variable Gyroporus



K-4 *Tylopilus* sp.



K-5 Cleland's Gilled
Bolete



K-6 Slippery Jack



K-7 *Collinitus* Slippery
Jack



K-8 Pagoda Fungus

Visual Index

Puffballs, Earthballs, Stinkhorns, Cannonballs & Birds Nests *Pages L*



L-1 Red Fingers



L-2 Tennis Ball Puffball



L-3 Dog Poo Fungus



L-4 Earthballs



L-5 Cannonballs



L-6 Stalked Puffballs



L-7 Bird's Nest Fungus
Cyathus olla



L-8 Bird's Nest Fungus
Cyathus stercoreus



L-9 Tall Stiltball



L-10 Hadrian's Stinkhorn



L-11 Collared Earthstar

Visual Index



L-12 *Calvatia* sp.

**Coral & Club
Fungi**
Pages M



M-1 Slender Coral Fungus



M-2 Fairy Wands



M-3 Flesh-coloured Coral
Fungus

**Bracket & Shelf
Fungi & Tough
Fungi with Pores**
Pages N



N-1 Tough Cinnamon
Fungus



N-2 Lilac Bracket Fungus



N-3 Wasp Nest Polypore



N-4 White punk



N-5 Lavender-pored Bracket
Fungus

Visual Index



**N-6 Wood-layered
Bracket Fungus**



N-7 Curry Punk



N-8 Scarlet Bracket Fungus



N-9 Beefsteak Fungus



**N-10 *Coltriciella
dependens***



N-11 Stonemaker Fungus



N-12 *Royoporus badius*



N-13 Hairy Stereum



**N-14 Rainbow Bracket
Fungus**



N-15 Blushing Rosette

Resupinates – Skin, Crust & Paint Fungus

Pages O



O-1 Pine Skin Fungus



O-2 Rosy Skin Fungus

Visual Index



O-3 Byssoidium Skin Fungus



O-4 Golden Splash Tooth



O-5 Wrinkled Waxy Skin Fungus



O-6 Purplish Stereum



O-7 *Hyphodontia arguta*



O-8 *Botryobasidium subcoronatum*



O-9 *Gyrodontium sacchari*



O-10 Violet Skin Fungus



O-11 *Trechispora farinacea*



O-11 Split Pore Crust

Toothed Fungi *Pages P*



P-1 Bearded Tooth Fungus



P-2 Hedgehog Tooth Fungus

Visual Index

Jelly & Ear Fungi

Pages Q



Q-1 Scotsmans Beard



Q-2 Yellow Brain Fungus



Q-3 A Wood Ear



Q-4 *Heterotextus* cf.
peziziformis

Various Basidiomycetes

Pages R



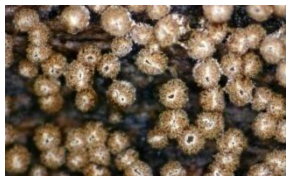
R-1 Miniature Chimney
Pots



R-2 Split Gill Fungus



R-3 Orange Aleurodiscus



R-4 Coral Polyps

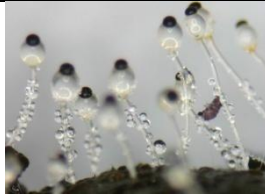


R-5 Bridal Creeper Rust
Fungus

Visual Index

Visual Index - Glomeromycetes & Zygomycetes

Glomeromycetes & Zygomycetes *Pages Y*



Y-1 Shotgun Fungus



Y-2 *Funneliformis caledonium*

Visual Index - Slime Moulds

Slime Moulds *Pages Z*



Z-1 *Badhamia foliicola*



Z-2 *Ceratiomyxa fruticulosa*



Z-3 Cute Baubles



Z-4 Dog Vomit Slime mould



Z-5 *Stemonitis*



Z-6 *Diachea leucopoda*



Z-7 *Leocarpus fragilis*



Z-8 Strawberry Slime Mould

Visual Index

Species Descriptions

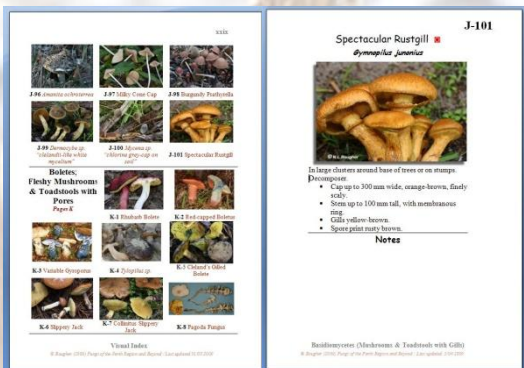
A description of each species follows.

To see them and the whole book:

Download the whole book (total of about 280 pages)
from the larger PDF file which is also provided on-line.

The south west corner of Australia, in which the Perth region lies, harbours colourful displays of Flora, Fauna, and Fungi. More than 200 of the local fungi are presented in this colourful book, *Fungi of the Perth Region and Beyond*.

This book has an open design to enable more fungi to be appended as knowledge about them becomes available. It is accessible on-line to maximize its availability and flexible use.



The book can be carried easily in the field to help recognize local fungi, and the author encourages users to add their own photos and notes to the book.



Western Australian Naturalists' Club (Inc.)

ISBN: 978-0-9806417-0-7