

Martineau Gardens Report following visit on 05.10.2010

2010 is a good year for the fruiting of larger fungi in Warwickshire and a substantial number of new records for the site (marked N on lists) have been made both during our visit in October and by Brian Perry on other occasions.

The list is still skewed towards wood inhabiting rather than ground living fungi. This October there are records of *Crepidotus luteolus*, *Peniophora incarnata* and *Peniophora lycii*, species which grow above the ground on either attached dead twigs or on twigs with only one distant end touching the ground. Few fungi can grow in this rather dry habitat, which is abundant at Martineau.

Additions have been made to the list of probably ectomycorrhizal species which is encouraging for this woodland site.

Checklist of Fungi at Martineau Gardens

The list of fungi found at Martineau Gardens is growing and is likely to continue to increase. The combined list is presented as a Checklist, showing the occasions on which each species has been found but omitting the habitat information which would be unwieldy if all entries were included. Habitat information is presented in the list for each visit.

In the Checklist the same basic ecological categories are retained but the opportunity has been taken to clarify these since knowledge about mycorrhizal status is still sketchy. Ectomycorrhizas are those involving mushrooms and toadstools (Basidiomycetes) in association with some trees and shrubs.

In the past ectomycorrhizal status has been presumed by field association with a particular tree or group of tree genera. Proof of the ecological status of growing with living roots of trees depends on experiments in which the two organisms are grown together, or on studies comparing the DNA of fruit bodies and fungus on roots.

In this checklist 'probably ectomycorrhiza formers' is based on the list of fungal genera known to contain mycorrhizal species in the British Isles in Spooner and Roberts (2005) **Fungi**, p.78-81, vol. 96 in Collins New Naturalist Library.

Lists (pages)

- 2 List of fungi found on 05.10.2010
- 3 Brian Perry's additional species list
- 4&5 Checklist of fungi at Martineau Gardens

A.W. and G.M. Brand

Fungi at Martineau Gardens on 05.10.2010

Species	English name	Habitat
<u>Wood decomposers</u>		
N <i>Armillaria mellea</i> agg (too old for sp. id)	a Honey Fungus	Lawn edge near cut-back Prunus
<i>Auricularia auricula-judae</i>	Jelly Ear	trunk, slice of felled
N <i>Bisporella citrina</i>	Lemon Disco	bark, inside face loose on log
<i>Bjerkandera adusta</i>	Smoky Bracket	felled deciduous wood, Caroline's log
N <i>Bolbitius reticulatus</i>	Netted Fieldcap	rotten woody fragment
<i>Chondrostereum purpureum</i>	Silverleaf Fungus	?Prunus small dead decapitated
<i>Coprinus micaceus</i>	Glistening Inkcap	woody debris
N <i>Coprinus xanthothrix</i> *see note 1	an Inkcap	charred wood
N <i>Crepidotus luteolus</i>	Yellowing Oysterling	Hedera stem debris
N <i>Crepidotus mollis</i>	Peeling Oysterling	log
<i>Daldinia concentrica</i>	KingAlfred's Cakes	Felled Fraxinus logs
<i>Fistulina hepatica</i>	Beefsteak Fungus	Quercus, dead decapitated
N <i>Ganoderma australe</i>	Southern Bracket	large felled log
<i>Hypoholoma fasciculare</i>	Sulphur Tuft	on & round stumps, Caroline's logs
N <i>Hymenoscyphus fructigenus</i>	Nut Disco	Quercus, old acorn husk
N <i>Marasmius rotula</i>	Collared Parachute	fallen sticks
<i>Mycena archangeliana</i>	Angel's Bonnet	fallen branch
N <i>Mycena galopus</i>	Milking Bonnet	woody debris
<i>Mycena galericulata</i>	Common Bonnet	wood stack
N <i>Mycena leptcephala</i>	Nitrous Bonnet	woody debris, rotting woodpile
N <i>Peniophora incarnata</i>	Rosy Crust	Quercus, dead attached twig
N <i>Peniophora lycii</i>	a grey crust	fallen twig
<i>Polyporus leptcephalus</i>	Blackfoot Polypore	Quercus, large felled trunk and logs
N <i>Psathyrella corrugis</i>	Red Edge Brittlestem	wood chip path, garden
N <i>Psathyrella microrrhiza</i>	Rootlet Brittlestem	wood chips, debris and leaf litter
<i>Schizopora paradoxa</i>	Split Porecrust	fallen log
<i>Stereum hirsutum</i>	Hairy Curtain Crust	Quercus, large logs
<i>Stereum subtomentosum</i>	Yellowing Curtain Crust	fallen deciduous branch
N <i>Trametes gibbosa</i>	Lumpy Bracket	Caroline's log
<i>Trametes versicolor</i>	Turkey Tail	felled deciduous log
<i>Xylaria hypoxylon</i>	Candlesnuff Fungus	stumps, old uprooted

Ground living probably litter decomposers

N <i>Conocybe filaris</i>	Fool's Conecap	vegetable patch
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Ground living probably ectomycorrhiza formers

N ? <i>Boletales</i> (sp indeterminate)	a Bolete	moribund, see <i>Sepedonium</i> below
N <i>Inocybe brunneoatra</i>	a Fibrecap	under Quercus and Ilex
N <i>Lycoperdon molle</i>	Soft Puffball	under deciduous trees
N <i>Scleroderma citrinum</i>	Common Earthball	under Betula

Growing on living leaves *see note 2

<i>Gymnosporangium sabiniae</i>	Pear rust	garden
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Growing on other fungi

N <i>Hypomyces chrysosperma</i> (<i>Sepedonium</i> state)	Bolete Mould	Bolete, moribund sp indeterminate
N <i>Hypomyces aurantius</i> (<i>Cladobotryum</i> state)	"Orange Polypore Mould"	<i>Polyporus leptcephalus</i>

* Notes

- 1 *Coprinus* on charred wood has been identified by the national expert, Derek Schafer, as *C. xanthothrix*, a first county record for this species
- 2 Other fungi on living leaves were not recorded on this visit

Fungi at Martineau Gardens Brian Perry's Additional Species List

Wood decomposers

Fistulina hepatica	Beefsteak Fungus	BP 2009 photo
Stropharia caerulea	Blue Roundhead	David Antrobus 2001

Ground living probably litter decomposers

N Macrolepiota sp	a Parasol	BP 13.09.2010
Morchella esculenta	Morel	BP 2009 photo

Ground living probably mycorrhiza formers

N Lactarius pterosporus	a Milkcap (with winged spores)	BP 22.09.2010 conf AWB
N Russula parazurea	Powdery Brittle Gill	BP 29.06.2010 conf AWB
Scleroderma verrucosum	Scaly Earthball	BP 2010 conf AWB

Checklist of Fungi at Martineau Gardens

Based on visits on 02.02.2007 (1), 10.10.2008 (2), 09.04.2010 (3) and 05.10.2010 (4)
and on various dates by Brian Perry (BP)

Species	English name	Visit	
<u>Wood Decomposers</u>			
Armillaria mellea agg (too old for sp. id)	a Honey Fungus	4	
Auricularia auricula-judae	Jelly Ear	1 2 3 4	
Bisporella citrina	Lemon Disco	4	
Bjerkandera adusta	Smoky Bracket	1 2 3 4	
Bolbitius reticulatus	Netted Fieldcap	4	
Chondrostereum purpureum	Silver leaf fungus	1 4	
Coniophora puteana	Wet Rot	2	
Coprinus micaceus	Glistening Inkcap	3 4	
Coprinus sp	an Inkcap	4	
Crepidotus luteolus	Yellowing Oysterling	4	
Crepidotus mollis	Peeling Oysterling	4	
Daldinia concentrica	King Alfred's Cakes	1 2 3 4	
Exidia nucleata	Crystal Brain	2	
Fistulina hepatica	Beefsteak Fungus	4	BP -- 2009
Flammulina velutipes	Velvet Shank	1	
Ganoderma australe	Southern Bracket	4	
Hymenoscyphus fructigenus	Nut Disco	4	
Hyphodontia sambuci	Elder Whitewash	1 3	
Hypoxylon fuscum	Hazel Woodwart	2	
Hypoxylon multifforme	Birch Woodwart	2	
Hypoxylon serpens	a Woodwart	3	
Hypholoma fasciculare	Sulphur Tuft	2 4	
Marasmius rotula	Collared Parachute	4	
Metatrachia floriformis	a Slime Mould	3	
Mollisia cinerea	Common Grey Disco	3	
Mycena adscendens	Frosty Bonnet	2	
Mycena arcangeliana	Angel's Bonnet	2 4	
Mycena galericulata	Common Bonnet	2 4	
Mycena galopus	Milking Bonnet	4	
Mycena leptoccephala	Nitrous Bonnet	4	
Peniophora incarnata	Rosy Crust	4	
Peniophora lycii	a grey crust	4	
Perenniporia fraxinea	"Perennial Ash Bracket"	2	
Peziza varia	Layered Cup	1	
Phlebia radiata	Wrinkled Crust	2	
Polyporus leptoccephalus	Blackfoot Polypore	2 4	
Psathyrella corrugis	Red Edge Brittlestem	4	
Psathyrella microrrhiza	Rootlet Brittlestem	4	
Rosellinia mammiformis	"Fat Black Flasks"	3	
Sarcoscypha austriaca	Scarlet Elf Cup	1 3	
Schizopora paradoxa	Split Porecrust	1 2 3 4	
Scopuloides hydnooides	"Grey Brush Crust"	2	
Stereum gausapatum	Bleeding Oak Crust	3	
Stereum hirsutum	Hairy Curtain Crust	1 2 4	
Stereum subtomentosum	Yellowing Curtain Crust	2 4	
Stropharia caerulea	Blue Roundhead		BP/D. Antrobus -- 2001
Trametes gibbosa	Lumpy Bracket	4	
Trametes versicolor	Turkey Tail	2 3 4	
Trechispora stevensonii	"Stevenson's Flour Crust"	2	
Trichia varia	a Slime Mould	2	
Tubaria furfuracea	Scurfy Twiglet	1	
Xylaria hypoxylon	Candlesnuff Fungus	1 2 4	
Xylaria longipes	Dead Moll's Fingers	2	

Ground Living probably Litter Decomposers

Collybia butyracea var asema	Butter Cap (variety)	2	
Conocybe filaris	Fool's Conecap		4
Lycoperdon molle	Soft Puffball		4
Macrolepiota sp	a Parasol		BP 13.09.2010
Melanoleuca cognata	Spring Cavalier	2	
Morchella esculenta	Morel		BP -- 2009

Ground living probably Ectomycorrhiza Formers

?Boletales (sp indeterminate)	a Bolete		4
Gastrum triplex	Collared Earthstar	1	
Inocybe brunneoatra	a Fibrecap		4
Lactarius pterosporus	a Milkcap		BP 22.09.2010
Russula parazura	Powdery Brittlegill		BP 29.06.2010
Scleroderma citrinum	Common Earthball		4
Scleroderma verrucosum	Scaly Earthball		BP -- 2009

Growing on Living Leaves

Cumminsiaella mirabilissima	Oregon-grape Rust		3
Erysiphe cichoracearum	Groundsel Powdery Mildew		3
Gymnosporangium sabiniae	Pear Rust	2	4
Kuhneola uredinis	Pale Bramble Rust	2	
Melampsora populnea	a Poplar Rust	2	
Microsphaera alphitoides	Oak Powdery Mildew	2	
Milesina kriegeriana	Male-fern Rust	1 2	
Milesina scolopendrii	Hart's-tongue Fern Rust	1	3
Mycosphaerella iridis	Iris Leaf Spot	2	
Phragmidium bulbosum	"Dark Bramble Rust"	2	
Phragmidium mucronatum	"Wild Rose Rust"	2	
Phragmidium rubi-idaei	Raspberry Rust	2	
Phyllactinia fraxini	Ash Powdery Mildew	2	
Puccinia lagenophorae	Groundsel Rust		3
Puccinia urticata	a Sedge Rust	2	
Pucciniastrum epilobii	a Willow Herb Rust	2	
Ramularia didyma	Buttercup Leaf Spot		3
Ramularia purpurascens	Winter heliotrope Leaf Spot	1	
Uncinula adunca var regularis	Goat Willow Powdery Mildew	2	

Growing on Other Fungi

Hypomyces chrysosperma (Sepedonium state)	Bolete Mould		4
Hypomyces aurantius (Cladobotryum state)	"Orange Polypore Mould"		4