

Online Material

Appendix. Species list of all macromycetes found in plot 59 with the indication of host specificity of mycorrhizal fungi (A: strictly beech specific; B: facultatively beech specific; C: non beech specific) and ecological category (D: saprotrophic terricol; E: saprotrophic lignicolous; F: parasitic), respectively. This classification refers specifically to the tree assemblage of the plot (details see Materials and methods). Note that total numbers of species refer to different lengths of periods.

Species	Host specificity	Thinned plot (59)		Unthinned plots (47, 51, 54, 58)	
		77–86	87–06	77–86	87–06
<i>Amanita excelsa</i>	A		×		×
<i>Amanita muscaria</i>	A		×	×	×
<i>Amanita pantherina</i>	A		×	×	×
<i>Amanita rubescens</i>	A		×	×	×
<i>Boletus edulis</i>	A		×	×	×
<i>Cortinarius allutus</i>	A		×		×
<i>Cortinarius bolaris</i>	A		×	×	×
<i>Cortinarius cliduchus</i>	A		×		×
<i>Cortinarius cristallinus</i>	A		×		×
<i>Cortinarius cristallinus</i> for. <i>gracilis</i>	A		×		
<i>Cortinarius damascenus</i>	A		×		×
<i>Cortinarius largus</i>	A		×	×	×
<i>Cortinarius porphyropus</i>	A		×		×
<i>Cortinarius raphanoides</i>	A		×		×
<i>Cortinarius talus</i>	A		×		
<i>Cortinarius torvus</i>	A		×		×
<i>Cortinarius vibratilis</i>	A		×	×	×
<i>Craterellus cornucopioides</i>	A		×	×	×
<i>Elaphomyces asperulus</i>	A		×		×
<i>Elaphomyces muricatus</i>	A		×		×
<i>Entoloma rhodopolium</i> v. <i>rhodopolium</i>	A		×		×
<i>Hebeloma crustuliniforme</i>	A		×		×
<i>Hygrophorus eburneus</i>	A		×	×	×
<i>Hygrophorus mesotephrus</i>	A		×	×	×
<i>Inocybe asterospora</i>	A		×		×
<i>Inocybe flocculosa</i> v. <i>crocifolia</i>	A		×		×
<i>Inocybe fuscidula</i> v. <i>fuscidula</i>	A		×		×
<i>Inocybe petiginosa</i>	A		×	×	×
<i>Laccaria amethystina</i>	A	×	×	×	×
<i>Lactarius aurantiacus</i>	A		×		
<i>Lactarius blennius</i>	A	×	×	×	×
<i>Lactarius blennius</i> f. <i>viridis</i>	A		×		×
<i>Lactarius subdulcis</i>	A		×	×	×
<i>Lactarius vellereus</i>	A		×		×
<i>Melanogaster macrosporus</i>	A		×		
<i>Pseudocraterellus undulatus</i>	A		×	×	×
<i>Russula acrifolia</i>	A		×	×	×
<i>Russula aurora</i>	A		×	×	×
<i>Russula fageticola</i>	A		×	×	×
<i>Russula fellea</i>	A		×	×	×
<i>Russula grisea</i>	A	×	×		×
<i>Russula laurocerasi</i>	A		×	×	×
<i>Russula lepida</i>	A		×	×	×
<i>Russula risigallina</i>	A		×	×	×
<i>Russula romellii</i>	A		×	×	×
<i>Tricholoma saponaceum</i>	A	×	×	×	×
<i>Tricholoma sciodes</i>	A		×	×	×
<i>Tricholoma sulphureum</i>	A		×		
<i>Tricholoma ustale</i>	A		×	×	×
<i>Xerocomus badius</i>	A		×	×	×
<i>Xerocomus porosporus</i>	A		×		
<i>Xerocomus pruinatus</i>	A		×		×
Total number of species class A	A	4	52	28	46

Appendix. Continued.

Species	Host specificity	Thinned plot (59)		Unthinned plots (47, 51, 54, 58)	
		77–86	87–06	77–86	87–06
<i>Elaphomyces granulatus</i>	B		×		
<i>Amanita fulva</i>	B		×		×
<i>Amanita gemmata</i>	B	×	×	×	×
<i>Amanita umbrinolutea</i>	B		×		
<i>Clitopilus prunulus</i>	B		×		
<i>Cortinarius anomalus</i>	B		×		
<i>Cortinarius azureus</i>	B		×		
<i>Cortinarius casimiri</i>	B		×		×
<i>Cortinarius decipiens</i>	B		×		×
<i>Cortinarius decipiens</i> var. <i>atrocoeruleus</i>	B		×		×
<i>Cortinarius flexipes</i> var. <i>flabellus</i>	B		×		
<i>Cortinarius lepidopus</i>	B		×		×
<i>Laccaria laccata</i>	B		×	×	×
<i>Laccaria laccata</i> v. <i>moelleri</i>	B		×		×
<i>Russula cyanoxantha</i>	B	×	×	×	×
<i>Russula cyanoxantha</i> fo. <i>pelteraii</i>	B	×	×	×	×
<i>Russula cyanoxantha</i> v. <i>variata</i>	B	×	×	×	×
<i>Russula langei</i>	B		×		×
<i>Russula nigricans</i>	B		×	×	×
<i>Russula postiana</i>	B		×		
<i>Russula vesca</i>	B		×	×	×
<i>Tricholoma bufonium</i>	B		×		
<i>Xerocomus chrysenteron</i>	B	×	×	×	×
Total number of species class B	B	5	23	8	16
<i>Amanita porphyria</i>	C		×	×	×
<i>Amanita vaginata</i>	C		×		×
<i>Cantharellus tubaeformis</i>	C		×	×	×
<i>Chalciporus piperatus</i>	C		×	×	×
<i>Clavulina cinerea</i>	C		×		×
<i>Clavulina rugosa</i>	C		×		×
<i>Cortinarius cedriolens</i>	C		×		
<i>Cortinarius malachius</i>	C		×		×
<i>Cortinarius pilatii</i>	C		×		
<i>Entoloma turbidum</i> var. <i>turbidum</i>	C		×		
<i>Hygrophorus pustulatus</i>	C		×	×	×
<i>Lactarius pominsis</i>	C		×		
<i>Lactarius rufus</i>	C		×		
<i>Russula amethystina</i>	C		×		
<i>Russula foetens</i>	C		×	×	×
<i>Russula integra</i>	C		×		
<i>Russula nauseosa</i>	C		×		×
<i>Russula ochroleuca</i>	C	×	×	×	×
<i>Russula puellaris</i>	C		×	×	×
<i>Suillus grevillei</i>	C	×	×	×	×
<i>Suillus viscidus</i>	C		×		
Total number of species class C	C	2	21	8	13
<i>Agaricus semotus</i>	D		×		×
<i>Agaricus silvicola</i>	D	×			
<i>Calocybe carnea</i>	D		×		×
<i>Clitocybe cerussata</i>	D		×		×
<i>Clitocybe clavipes</i>	D		×	×	×
<i>Clitocybe costata</i>	D		×		×
<i>Clitocybe decembris</i>	D		×		×
<i>Clitocybe fuliginipes</i>	D		×		×

Appendix. Continued.

Species	Host specificity	Thinned plot (59)		Unthinned plots (47, 51, 54, 58)	
		77–86	87–06	77–86	87–06
<i>Clitocybe gibba</i>	D	×	×	×	×
<i>Clitocybe houghtonii</i>	D		×		×
<i>Clitocybe metachroa</i>	D		×		×
<i>Clitocybe nebularis</i>	D	×	×	×	×
<i>Clitocybe odora</i>	D		×	×	×
<i>Clitocybe subspadicea</i>	D		×		×
<i>Clitocybe umbilicata</i>	D		×		×
<i>Clitocybe vibecina</i>	D		×	×	×
<i>Collybia butyracea</i> v. <i>asema</i>	D	×	×	×	×
<i>Collybia confluens</i>	D		×	×	×
<i>Collybia cooki</i>	D		×		×
<i>Collybia dryophila</i>	D	×	×	×	×
<i>Collybia fuscopurpurea</i>	D		×		×
<i>Collybia luteifolia</i>	D		×		×
<i>Collybia marasmioides</i>	D		×	×	×
<i>Collybia peronata</i>	D		×	×	×
<i>Cystoderma carcharias</i>	D		×	×	×
<i>Entoloma conferendum</i>	D	×		×	×
<i>Galerina stylifera</i>	D		×		×
<i>Helvella elastica</i>	D		×		×
<i>Lepiota clypeolaria</i>	D		×	×	×
<i>Lepiota cristata</i>	D		×		×
<i>Lepiota ventriosopora</i>	D		×		×
<i>Lepista inversa</i>	D	×	×	×	×
<i>Lepista nuda</i>	D		×		×
<i>Leucocortinarius bulbiger</i>	D		×		×
<i>Lycoperdon foetidum</i>	D		×		×
<i>Lycoperdon perlatum</i>	D	×	×	×	×
<i>Lycoperdon umbrinum</i>	D		×		×
<i>Lyophyllum rancidum</i>	D		×		
<i>Macrolepiota excoriata</i>	D		×		×
<i>Macrolepiota procera</i>	D		×		×
<i>Macrolepiota rhacodes</i>	D		×	×	×
<i>Marasmius torquescens</i>	D		×	×	×
<i>Mycena diosma</i>	D		×		×
<i>Mycena galericulata</i>	D		×	×	×
<i>Mycena galopus</i>	D	×	×	×	×
<i>Mycena pura</i>	D	×	×	×	×
<i>Mycena rosea</i>	D		×		×
<i>Mycena sanguinolenta</i>	D		×		×
<i>Mycena vitilis</i>	D		×		×
<i>Mycena zephirus</i>	D		×		×
<i>Otidea onotica</i>	D	×		×	×
<i>Oudemansiella radicata</i>	D		×	×	×
<i>Phaeocollybia arduennensis</i>	D		×		
<i>Rickenella fibula</i>	D		×		×
<i>Stropharia aeruginosa</i>	D		×		×
<i>Tubaria furfuracea</i>	D		×		×
Total number of species class D	D	11	53	22	53
<i>Exidia glandulosa</i>	E		×		
<i>Galerina autumnalis</i>	E		×		×
<i>Galerina marginata</i>	E		×		×
<i>Galerina uncialis</i>	E		×		×
<i>Gymnopilus hybridus</i>	E		×		×
<i>Hygrophoropsis aurantiaca</i>	E		×	×	×
<i>Hypholoma capnoides</i>	E		×	×	×

Appendix. Continued.

Species	Host specificity	Thinned plot (59)		Unthinned plots (47, 51, 54, 58)	
		77–86	87–06	77–86	87–06
<i>Hypholoma fasciculare</i>	E		×	×	×
<i>Hypholoma sublateritium</i>	E		×	×	×
<i>Lentinellus cochleatus</i>	E		×		
<i>Lycoperdon piriforme</i>	E	×	×	×	×
<i>Megacollybia platyphylla</i>	E		×	×	×
<i>Mycena epipterygia</i>	E		×		×
<i>Paxillus atrotomentosus</i>	E		×		×
<i>Paxillus panuoides</i>	E		×		×
<i>Pluteus cervinus</i>	E		×	×	×
<i>Postia caesia</i>	E		×		×
<i>Tremella mesenterica</i>	E		×		
<i>Tricholomopsis rutilans</i>	E		×	×	×
<i>Tyromyces placenta</i>	E		×		×
Total number of species class E	E	1	20	8	17
<i>Armillaria cepistipes</i>	F		×	×	×
<i>Armillaria ostoyae</i>	F		×	×	×
<i>Calocera viscosa</i>	F		×	×	×
<i>Cordyceps ophioglossoides</i>	F		×	×	×
Total number of species class F	F	0	4	4	4
Total number of species	A–F	23	173	78	149