

# Ecography

E4272

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Appendix 1. Relative abundance (number of individuals/15 traps/10 d) of ant species collected in pitfall traps in unburned and burned areas. The two sampling periods have been pooled together. The number of years after fire is indicated as: 1 yr, 5 yr, 13 yr and 19 yr. In brackets, the number of plots where each species has been collected either in pitfall traps, tree traps or net sweeping. Numbers in bold and italics indicate that the species was also collected in tree traps and with net sweeping, respectively. The letters t and m indicate that the species was collected in tree traps and with net sweeping, respectively, but not in pitfall traps. The species have been grouped with classification methods according to the first axes obtained in the Canonical Correspondence Analysis.

	Unburned				Understorey fire				Canopy fire			
	1 yr	5 yr	13 yr	19 yr	1 yr	5 yr	13 yr	19 yr	1 yr	5 yr	13 yr	19 yr
<b>Group I. Species that increase after canopy fire</b>												
<i>Cataglyphis iberica</i>	–	–	–	–	–	–	–	–	–	2(1)	7(1)	–
<i>Myrmica spectioides</i>	–	–	–	–	–	–	–	–	–	4(1)	–	178(1)
<i>Messor structor</i>	–	–	1(1)	119(4)	–	<i>m</i> (1)	–	2596(2)	7(2)	3(2)	262(2)	668(4)
<i>Messor capitatus</i>	–	–	2(1)	1558(1)	–	–	1(1)	–	–	8(1)	3097(3)	1537(2)
<i>Temnothorax specularis</i>	1(1)	–	–	<i>l</i> (1)	–	–	–	3(1)	–	2(1)	12(3)	9(3)
<i>Tetramorium hispanicum</i>	–	–	–	–	–	–	3(3)	2(2)	–	–	6(2)	2(1)
<i>Formica subrufa</i>	1(1)	–	–	12(1)	–	1(1)	14(1)	12(1)	–	–	250(1)	28(2)
<i>Tetramorium semilaeve</i>	–	<b>t</b> (1)	<b>6</b> (2)	<b>t</b> (1)	–	–	3(1)	–	–	21(3)	1(1)	1(1)
<b>Group II. Species that decrease after canopy fire</b>												
<i>Dolichoderus quadripunctatus</i>	<b>t</b> (2)	–	–	2(1)	<b>t</b> (1)	–	–	<b>t</b> (1)	–	–	–	–
<i>Lasius affinis</i>	55(4)	75(4)	7(1)	10(2)	22(2)	448(2)	–	2(1)	–	–	–	–
<i>Lasius myops</i>	1(1)	3(1)	1(1)	1(1)	14(2)	–	–	–	–	–	3(1)	–
<b>Group III. Species with higher presence in the older areas (13 and 19 yr)</b>												
<i>Formica rufibarbis</i>	–	1(1)	–	1(1)	–	–	9(1)	–	–	–	–	19(1)
<i>Crematogaster sordidula</i>	–	–	8(2)	–	–	–	–	1(1)	–	–	67(1)	–
<i>Lasius niger</i>	1(3)	3(2)	1224(3)	338(3)	554(3)	<b>t</b> (1)	<b>979</b> (3)	<b>7141</b> (4)	–	–	–	447(1)
<i>Crematogaster scutellaris</i>	<b>53</b> (5)	<b>t</b> (1)	<b>353</b> (4)	<b>46</b> (3)	81(3)	<b>90</b> (1)	<b>t</b> (1)	<b>232</b> (4)	2(1)	–	4(1)	20(2)
<i>Temnothorax tristis</i>	53(4)	91(4)	98(4)	27(4)	7(1)	11(4)	38(4)	11(3)	<i>m</i> (1)	–	14(2)	12(2)
<i>Temnothorax krausseii</i>	1(1)	–	6(2)	2(1)	–	–	3(1)	–	<i>m</i> (1)	–	1(1)	–
<i>Temnothorax recedens</i>	14(3)	47(4)	54(4)	18(4)	1(1)	23(2)	73(4)	20(4)	–	3(1)	49(3)	18(4)
<i>Camponotus lateralis</i>	<b>10</b> (2)	1(1)	<b>146</b> (4)	20(3)	<i>m</i> (1)	–	<b>19</b> (4)	<b>63</b> (4)	–	–	32(3)	4(2)
<i>Solenopsis latro</i>	44(1)	42(1)	164(2)	29(2)	–	22(2)	96(1)	29(1)	–	3(1)	34(3)	52(2)
<i>Aphaenogaster subterranea</i>	119(2)	5(1)	230(4)	59(2)	34(2)	–	211(3)	17(1)	49(1)	1(1)	20(3)	30(3)

Group IV: Species with similar presence in the three types of plots

<i>Tennothorax lichtensteini</i>	3(5)	65(4)	102(4)	77(3)	5(2)	20(4)	119(4)	20(3)	–	7(2)	29(4)	30(3)
<i>Camponotus sylvaticus</i>	66(4)	120(3)	85(3)	64(3)	35(3)	79(4)	3(1)	234(4)	1(1)	23(2)	48(2)	55(4)
<i>Pheidole pallidula</i>	247(5)	344(4)	595(4)	568(4)	372(3)	187(4)	166(3)	1240(4)	142(3)	1338(3)	1606(4)	1283(3)
<i>Camponotus aethiops</i>	116(4)	381(4)	64(3)	127(4)	25(4)	31(3)	503(4)	313(4)	23(2)	22(2)	258(4)	204(4)
<i>Formica gagates</i>	1893(5)	2404(4)	2380(4)	2997(4)	2509(5)	2118(3)	4537(4)	437(4)	1720(5)	1803(3)	1827(4)	2966(4)
<i>Camponotus cruentatus</i>	291(2)	938(3)	159(3)	106(4)	174(3)	866(3)	3(3)	402(3)	–	412(4)	244(3)	227(4)
<i>Myrmecina graminicola</i>	18(4)	3(2)	11(2)	14(1)	30(4)	1(1)	3(3)	3(1)	13(4)	–	2(2)	17(3)
<i>Tenatorium caespitum</i>	738(5)	1503(4)	332(3)	1085(4)	786(4)	4258(4)	1610(4)	1270(4)	441(5)	142(3)	362(4)	1261(4)
<i>Camponotus piceus</i>	17(2)	10(3)	1(1)	3(3)	t(3)	1(1)	1(1)	9(3)	1(1)	16(3)	49(2)	24(4)
<i>Plagiolepis pygmaea</i>	85(4)	108(3)	18(2)	43(4)	159(4)	151(4)	15(2)	154(4)	80(4)	32(3)	237(4)	23(4)
<i>Tapinoma nigerrimum</i>	44(3)	4(2)	27(1)	31(3)	9(2)	52(3)	11(1)	288(4)	13(2)	84(3)	63(2)	35(4)
<i>Formica lemni</i>	116(2)	96(2)	24(2)	43(3)	104(3)	252(4)	38(4)	217(4)	20(3)	141(3)	40(3)	90(4)
<i>Aphaenogaster gibbosa</i>	296(3)	–	1(1)	59(3)	64(2)	328(4)	1(1)	151(4)	2(1)	72(3)	399(4)	194(4)