

## APPENDIX 1

List of species and their abundances in each plot Nègreiron, Termes Blancs, Peau de Meau and Merle (G = Grazed area; X = enclosure; Troph = trophic groups: Phy = Phytophagous; Prd = predators; Sap = Saprophagous ; Cop = Coprophagous ; ° = interesting species for beetle conservation)

FAMILIES	SPECIES	Total	Termes Blancs								Troph
			Nègreiron		Peau de Meau		Merle		Termes Blancs		
			G	X	G	X	G	X	G	X	
<b>Anobiidae</b>	<i>Dignomus</i> sp.	4	0	0	0	0	0	1	3	0	sap
	<i>Lasioderma</i> sp.2	2	0	1	0	0	0	1	0	0	sap
	<i>Ptinus bidens</i> Olivier 1790	1	0	0	0	0	0	0	0	1	sap
	<i>Ptinus</i> sp.	1	0	0	0	0	0	1	0	0	sap
<b>Anthicidae</b>	<i>Anthicus tristis</i> W. L. E. Schmidt 1842	42	0	3	0	0	0	0	28	11	sap
	<i>Endomia tenuicollis</i> (Rossi 1792)	81	5	41	3	1	3	19	1	8	sap
	<i>Hirticomus hispidus</i> (Rossi 1792)	13	0	1	0	0	3	2	3	4	sap
	<i>Microhoria terminata</i> (W. L. E. Schmidt 1842)	12	0	0	0	0	0	2	2	8	sap
<b>Aphodiidae</b>	<i>Acrossus luridus</i> (Fabricius 1775)	1	0	0	0	0	0	0	1	0	cop
	<i>Ammoecius elevatus</i> (Olivier 1789)	1	0	0	0	0	0	0	1	0	cop
	<i>Bodilus ictericus ghardimaouensis</i> (Balthasar 1929)	1	1	0	0	0	0	0	0	0	cop
	<i>Calamosternus granarius</i> (Linnaeus 1767)	1	0	0	0	0	0	0	1	0	cop
	<i>Eudolus quadriguttatus</i> (Herbst 1783) °	1	0	0	0	0	0	0	1	0	cop
	<i>Pleurophorus caesus</i> (Creutzer 1796)	4	0	1	0	0	0	1	0	2	cop
<b>Apionidae</b>	<i>Protapion difforme</i> (Germar 1818)	1	0	1	0	0	0	0	0	0	phy
	<i>Protapion interjectum</i> (Desbrochers 1895)	10	6	0	1	0	2	1	0	0	phy
<b>Brachyceridae</b>	<i>Brachycerus muricatus</i> Olivier 1790	7	0	0	3	0	1	1	0	2	phy
<b>Buprestidae</b>	<i>Anthaxia cyanescens</i> Gory 1841 °	2	0	0	1	0	0	0	0	1	phy
	<i>Cylindromorphus parallelus</i> Fairmaire 1859 °	3	0	0	0	0	1	2	0	0	phy
	<i>Habroloma triangulare</i> (Lacordaire 1835) °	1	0	0	0	0	0	0	0	1	phy
	<i>Sphenoptera gemmata</i> (Olivier 1790) °	12	1	4	0	0	1	1	3	2	phy
	<i>Trachys goberti</i> Gozis 1889 °	1	0	0	0	0	0	0	1	0	phy
	<i>Trachys troglodytes</i> Gyllenhal 1817	3	0	0	0	0	0	0	2	1	phy

<b>Byrrhidae</b>	<i>Curimopsis maritima</i> (Marsham 1802)	11	0	1	0	0	0	2	7	1	sap
<b>Cantharidae</b>	<i>Malthodes</i> sp.	4	3	0	1	0	0	0	0	0	phy
	<i>Malthodes</i> sp.2	4	2	0	0	0	1	1	0	0	phy
	<i>Rhagonycha fulva</i> (Scopoli 1763)	1	0	0	0	0	1	0	0	0	phy
<b>Carabidae</b>	<i>Acinopus picipes</i> (Olivier 1795)	96	5	6	44	37	1	0	1	2	phy
	<i>Amara equestris</i> (Duftschmid 1812)	7	2	2	2	1	0	0	0	0	prd
	<i>Amara eurynota</i> (Panzer 1797)	1	0	1	0	0	0	0	0	0	prd
	<i>Brachinus exhalans</i> (P. Rossi 1792)	1	0	1	0	0	0	0	0	0	prd
	<i>Calathus cinctus</i> Motschulsky 1850	1	0	1	0	0	0	0	0	0	prd
	<i>Calathus fuscipes</i> (Goeze 1777)	3	0	0	0	0	0	0	0	3	prd
	<i>Calosoma maderae</i> (Fabricius 1775) °	1	0	1	0	0	0	0	0	0	prd
	<i>Carabus coriaceus</i> Linnaeus 1758	40	0	1	0	0	0	0	8	31	prd
	<i>Carterus</i> cf. <i>fulvipes</i> (Latreille 1817)	1	0	0	0	0	0	0	0	1	prd
	<i>Cicindela maroccana</i> Fabricius 1801	32	1	0	14	4	7	6	0	0	prd
	<i>Dinodes decipens</i> (L. Dufour 1820) °	2	0	0	0	1	0	0	1	0	prd
	<i>Dixus sphaerocephalus</i> (Olivier 1795)	3	0	3	0	0	0	0	0	0	prd
	<i>Harpalus affinis</i> (Schrank 1781)	1	0	0	0	0	0	1	0	0	prd
	<i>Harpalus distinguendus</i> (Duftschmid 1812)	1	0	0	0	0	0	0	0	1	prd
	<i>Harpalus sulphuripes</i> Germar 1824	16	0	0	1	1	11	2	1	0	prd
	<i>Licinus silphoides</i> (P. Rossi 1790)	1	0	1	0	0	0	0	0	0	prd
	<i>Microlestes luctuosus</i> Holdhaus in Apfelbeck 1904	122	3	6	3	15	2	22	10	61	prd
	<i>Nebria brevicollis</i> (Fabricius 1792)	1	0	0	0	0	0	0	1	0	prd
	<i>Notiophilus substriatus</i> C.R. Waterhouse 1833	3	3	0	0	0	0	0	0	0	prd
	<i>Olisthopus fuscatus</i> Dejean 1828	1	0	0	1	0	0	0	0	0	prd
	<i>Ophonus subquadratus</i> (Dejean 1829)	27	1	5	7	2	0	0	0	12	prd
	<i>Phyla tethys</i> (Netolitzky 1926)	1	0	0	0	0	0	1	0	0	prd
	<i>Poecilus sericeus</i> Fischer von Waldheim 1824	2402	280	179	440	1070	387	46	0	0	prd
	<i>Trechus quadristriatus</i> (Schrank 1781)	1	0	0	0	0	0	0	0	1	prd
	<i>Zabrus ignavus</i> Csiki 1907 °	13	1	12	0	0	0	0	0	0	phy
<b>Cerambycidae</b>	<i>Agapanthia cardui</i> (Linnaeus 1767)	4	0	1	0	0	0	0	0	3	phy
	<i>Calamobius filum</i> (Rossi 1790)	8	0	1	0	0	0	2	0	5	phy
	<i>Stenurella bifasciata</i> (Müller 1776)	1	0	0	0	0	0	1	0	0	phy

	<i>Vesperus luridus</i> (Rossi 1794) °	6	0	2	0	0	1	3	0	0	phy
<b>Cetoniidae</b>	<i>Protaetia morio</i> (Fabricius 1781)	13	0	0	3	0	2	0	8	0	phy
	<i>Protaetia oblonga</i> (Gory & Percheron 1833)	195	81	98	4	0	7	1	4	0	phy
	<i>Tropinota squalida</i> (Scopoli 1783)	6	0	0	0	1	1	2	0	2	phy
<b>Chrysomelidae</b>	<i>Aphthona euphorbiae</i> (Schrank 1781)	317	3	7	4	27	8	151	92	25	phy
	<i>Aphthona nigriceps</i> (Redtenbacher 1842)	11	0	3	0	0	0	0	5	4	phy
	<i>Bruchidius bimaculatus</i> (Olivier 1795)	212	46	131	4	7	11	8	1	4	phy
	<i>Bruchidius foveolatus</i> (Gyllenhal 1833)	73	15	32	0	6	14	5	1	0	phy
	<i>Cassida deflorata</i> Suffrian 1844	2	0	0	0	0	0	0	0	2	phy
	<i>Chaetocnema hortensis</i> (Geoffroy 1785)	4	0	0	0	0	0	0	3	1	phy
	<i>Chrysolina femoralis</i> (Olivier 1790)	3	2	1	0	0	0	0	0	0	phy
	<i>Chrysolina bankii</i> (Fabricius 1775)	3	0	0	0	0	0	1	0	2	phy
	<i>Cryptocephalus crassus</i> G. A. Olivier 1791	3	0	0	0	0	0	0	1	2	phy
	<i>Cryptocephalus rugicollis</i> G. A. Olivier 1791	8	0	0	0	0	0	3	5	0	phy
	<i>Dibolia cryptocephala</i> (Koch 1803)	16	1	7	0	0	2	1	1	4	phy
	<i>Dibolia cynoglossi</i> (Koch 1803)	2	0	0	0	0	1	0	1	0	phy
	<i>Gastrophysa polygoni</i> (Linnaeus 1758)	2	0	0	0	0	1	0	0	1	phy
	<i>Hispa atra</i> Linnaeus 1767	4	1	1	0	0	0	0	2	0	phy
	<i>Hypocassida subferruginea</i> (Schrank 1776)	1	0	0	0	0	0	0	0	1	phy
	<i>Longitarsus obliteratoides</i> Gruev 1973	17	0	0	0	2	0	0	11	4	phy
	<i>Longitarsus succineus</i> (Foudras 1860)	327	52	61	5	12	32	63	78	24	phy
	<i>Phyllotreta atra</i> (Fabricius 1775)	1	0	0	0	0	1	0	0	0	phy
	<i>Psylliodes chrysocephala</i> (Linnaeus 1758)	1	0	0	0	0	0	0	1	0	phy
	<i>Spermophagus sericeus</i> (Geoffroy 1785)	32	0	0	0	0	3	2	1	26	phy
	<i>Sphaeroderma rubidum</i> (Graëlls 1858)	31	0	0	0	0	0	0	3	28	phy
	<i>Timarcha tenebricosa</i> (Fabricius 1775)	1	0	0	0	0	1	0	0	0	phy
<b>Coccinellidae</b>	<i>Coccinella septempunctata</i> Linnaeus 1758	24	3	11	0	0	0	2	8	0	prd
	<i>Exochomus nigromaculatus</i> (Goeze 1777)	2	0	0	0	0	1	0	1	0	prd
	<i>Hyperaspis reppensis</i> (Herbst 1783)	1	0	0	0	0	0	0	1	0	prd
	<i>Olibrus affinis</i> (Sturm 1807)	2	0	0	0	0	0	2	0	0	prd
	<i>Rhyzobius litura</i> (Fabricius 1787)	2	0	0	0	0	0	0	0	2	prd
	<i>Scymnus frontalis</i> (Fabricius 1787)	10	2	3	1	0	0	2	2	0	prd

	<i>Scymnus mediterraneus</i> lablokoff-Khnzorian 1972	<b>9</b>	0	0	0	0	6	0	2	1	prd
	<i>Scymnus</i> sp.	<b>3</b>	0	1	0	0	1	0	0	1	sap
<b>Colonidae</b>	<i>Colon</i> sp.	<b>1</b>	0	0	0	1	0	0	0	0	sap
<b>Corylophidae</b>	<i>Arthrolips convexiuscula</i> (Motschulsky 1849)	<b>3</b>	3	0	0	0	0	0	0	0	sap
	<i>Arthrolips picea</i> (Comolli 1837)	<b>20</b>	1	13	0	0	1	0	3	2	sap
	<i>Sericoderus lateralis</i> (Gyllenhal 1827)	<b>2</b>	0	2	0	0	0	0	0	0	sap
<b>Cryptophagidae</b>	<i>Hypocopus latridioides</i> (Motschulsky 1839) °	<b>1</b>	0	0	0	0	0	0	1	0	sap
<b>Cucujidae</b>	<i>Oryzaephilus surinamensis</i> (Linnaeus 1758)	<b>7</b>	1	0	0	0	1	1	1	3	sap
<b>Curculionidae</b>	<i>Ceutorhynchus leprieuri</i> C. Brisout 1881	<b>1</b>	0	0	0	0	0	0	0	1	phy
	<i>Cionus olivieri</i> Rosenschöld 1838	<b>1</b>	0	0	0	0	0	0	1	0	phy
	<i>Coniocleonus excoriatus</i> (Gyllenhal 1834) °	<b>1</b>	0	0	0	0	0	0	1	0	phy
	<i>Coniocleonus nigrosuturatus</i> (Goeze 1777)	<b>506</b>	259	72	71	16	47	9	29	3	phy
	<i>Cycloderes canescens</i> (Rossi 1792)	<b>6</b>	5	0	0	1	0	0	0	0	phy
	<i>Cycloderes guinardi</i> (Jacquelin du Val 1852) °	<b>22</b>	4	0	0	0	3	3	12	0	phy
	<i>Donus crinitus</i> (Boheman 1834)	<b>10</b>	3	4	2	0	0	0	1	0	phy
	<i>Entomoderus impressicollis colasi</i> (Roudier 1954) °	<b>1</b>	1	0	0	0	0	0	0	0	phy
	<i>Gronops lunatus</i> (Fabricius 1775) °	<b>1</b>	1	0	0	0	0	0	0	0	phy
	<i>Hadroplontus trimaculatus</i> (Fabricius 1775)	<b>4</b>	0	0	0	0	0	0	0	4	phy
	<i>Hypera dauci</i> (Olivier 1807)	<b>39</b>	22	3	1	4	3	1	4	1	phy
	<i>Hypera melancholica</i> (Fabricius 1792)	<b>1</b>	0	0	0	0	0	0	1	0	phy
	<i>Hypurus bertrandi</i> (Perris 1852)	<b>2</b>	0	0	0	0	0	1	1	0	phy
	<i>Larinus ursus</i> (Fabricius 1792)	<b>2</b>	0	1	1	0	0	0	0	0	phy
	<i>Limobius borealis</i> (Paykull 1792)	<b>7</b>	0	2	2	0	2	1	0	0	phy
	<i>Lixus filiformis</i> (Fabricius 1781)	<b>1</b>	0	0	0	0	0	0	1	0	phy
	<i>Lixus</i> sp.	<b>1</b>	0	0	0	0	0	0	0	1	phy
	<i>Lixus vilis</i> (Rossi 1790)	<b>3</b>	0	0	1	0	0	0	2	0	phy
	<i>Mecinus dorsalis</i> Aubé 1850	<b>1</b>	0	0	0	0	1	0	0	0	phy
	<i>Mecinus labilis</i> (Herbst 1795)	<b>1</b>	0	0	0	0	0	0	0	1	phy
	<i>Otiorrhynchus vitellus</i> Gyllenhal 1834	<b>23</b>	5	3	7	2	4	1	1	0	phy
	<i>Phridiuchus spilmani</i> Warner 1969 °	<b>10</b>	5	5	0	0	0	0	0	0	phy
	<i>Pleurodirus aquisextanus</i> (Abeille 1904) °	<b>5</b>	0	0	0	0	2	1	0	2	phy
	<i>Pseudocleonus cinereus</i> (Schrank 1781)	<b>34</b>	20	11	0	1	1	1	0	0	phy



	<i>Saprinus semistriatus</i> (Scriba 1790)	3	0	0	1	2	0	0	0	0	sap
<b>Lathridiidae</b>	<i>Cholovocera formicaria</i> (Motschulsky 1838) °	10	0	3	0	1	2	0	3	1	sap
	<i>Melanophthalma fuscipennis</i> (Mannerheim 1844)	25	0	3	0	0	0	1	0	21	sap
	<i>Migneauxia crassiuscula</i> (Aubé 1850)	1	0	0	0	0	0	1	0	0	sap
<b>Leioididae</b>	<i>Agathidium haemorrhoum</i> Erichson 1845	9	0	1	0	1	1	1	0	5	sap
	<i>Ptomaphagus sericatus</i> (Chaudoir 1845)	126	11	3	8	11	2	6	82	3	sap
	<i>Ptomaphagus subvillosus</i> (Goeze 1777)	10	0	0	0	1	0	1	6	2	sap
<b>Malachiidae</b>	<i>Charopus docilis</i> Kiesenwetter 1851	198	0	0	0	1	0	0	7	190	prd
	<i>Clanoptilus spinosus</i> (Erichson 1840)	1	0	0	0	0	0	1	0	0	prd
	<i>Colotes punctatus</i> (Erichson 1840)	1	0	0	0	0	0	0	0	1	prd
	<i>Cyrtosus cyanipennis</i> (Erichson 1840)	4	0	1	0	0	1	1	1	0	prd
	<i>Pelochrus pallidulus</i> (Erichson 1840) °	1	0	0	0	0	1	0	0	0	prd
<b>Meloidae</b>	<i>Hycleus duodecimpunctatus</i> (Olivier 1811)	11	5	1	1	0	3	1	0	0	phy
	<i>Mylabris quadripunctata</i> (Linnaeus 1767)	2	1	0	0	0	0	0	1	0	phy
	<i>Mylabris variabilis</i> (Pallas 1781)	15	1	0	0	13	0	1	0	0	phy
<b>Melolonthidae</b>	<i>Amphimallon ruficorne</i> (Fabricius 1775) °	13	2	1	2	2	4	2	0	0	phy
	<i>Rhizotrogus cicatricosus</i> Mulsant 1842 °	40	15	14	3	1	4	1	2	0	phy
<b>Mordellidae</b>	Mordellidae (G. sp.)	19	0	0	1	0	4	1	11	2	phy
	Mordellidae (G. sp.)2	2	0	1	0	0	0	0	0	1	phy
<b>Mycetophagidae</b>	<i>Typhaea stercorea</i> (Linnaeus 1758)	4	0	0	0	3	1	0	0	0	phy
<b>Nitidulinae</b>	<i>Meligethes</i> sp.	4	0	2	0	0	0	0	0	2	phy
<b>Oedemeridae</b>	<i>Oedemera flavipes</i> (Fabricius 1792)	2	0	0	0	0	0	0	2	0	phy
	<i>Oedemera crassipes</i> Ganglbauer 1881 °	26	0	20	0	0	0	0	1	5	phy
<b>Phalacridae</b>	<i>Olibrus bicolor</i> (Fabricius 1792)	1	0	1	0	0	0	0	0	0	phy
<b>Pselaphidae</b>	<i>Brachygluta perforata</i> (Aubé 1833)	2	0	0	0	1	0	0	0	1	sap
	<i>Brachygluta tibialis</i> (Aubé 1844)	6	1	0	0	3	0	0	0	2	sap
<b>Scarabaeidae</b>	<i>Euoniticellus fulvus</i> (Goeze 1777)	1	0	0	0	0	0	0	1	0	cop
	<i>Onthophagus emarginatus</i> Mulsant & Godart 1842	1	0	0	0	0	0	0	1	0	cop
	<i>Onthophagus furcatus</i> (Fabricius 1781)	22	0	0	0	0	0	0	22	0	cop
	<i>Onthophagus maki</i> (Illiger 1803)	1	0	0	0	0	0	0	1	0	cop
	<i>Onthophagus ruficapillus</i> Brullé 1832	3	0	0	0	0	0	0	2	1	cop
	<i>Onthophagus vacca</i> (Linnaeus 1767)	9	2	0	0	0	1	0	6	0	cop

	<i>Scarabaeus laticollis</i> Linnaeus 1767	2	0	0	0	0	2	0	0	0	cop
<b>Scraptiidae</b>	<i>Scraptia dubia</i> Olivier 1790	9	0	0	0	0	0	0	7	2	sap
<b>Scydmaenidae</b>	<i>Euconnus chrysocomus</i> (Saulcy 1864) °	3	0	1	0	0	0	0	1	1	sap
	<i>Stenichnus</i> cf. <i>helferi</i> (Schaum 1841)	6	0	0	2	0	2	0	2	0	sap
<b>Silphidae</b>	<i>Ablattaria laevigata</i> (Fabricius 1775)	1	0	0	0	0	0	0	0	1	sap
	<i>Thanatophilus sinuatus</i> (Fabricius 1775)	1	0	0	0	0	0	0	0	1	sap
<b>Silvanidae</b>	<i>Ahasverus advena</i> (Waltl 1834)	1	0	0	0	1	0	0	0	0	sap
<b>Staphylinidae</b>	<i>Aleochara bipustulata</i> (Linnaeus, 1761)	3	0	0	0	0	0	0	3	0	prd
	Aleocharinae (G.sp.)1	8	0	0	0	0	0	0	0	8	prd
	Aleocharinae (G.sp.)2	2	0	0	1	0	0	0	1	0	prd
	<i>Aloconota</i> sp.	1	0	0	0	1	0	0	0	0	prd
	<i>Anotylus inustus</i> (Gravenhorst 1806)	83	5	0	0	3	1	2	70	2	prd
	<i>Astenus anguinus</i> (Baudi 1848)	18	0	1	0	0	0	3	11	3	prd
	<i>Astrapaeus ulmi</i> (Rossi 1790) °	2	0	0	0	0	0	0	0	2	prd
	<i>Atheta</i> sp.1	30	21	3	3	0	0	0	2	1	prd
	<i>Bolitobius castaneus</i> (Stephens 1832)	5	0	0	0	0	0	0	1	4	prd
	<i>Ocypus fortunatarum</i> Wollaston 1871	2	0	0	0	0	0	2	0	0	prd
	<i>Ocypus obsкуроaeneus schatzmayri</i> (J. Müller 1923)	49	7	5	4	12	6	7	4	4	prd
	<i>Ocypus olens</i> (O. Müller 1764)	3	1	2	0	0	0	0	0	0	prd
	<i>Ocypus ophthalmicus</i> (Scopoli 1763)	107	1	7	3	15	4	7	27	43	prd
	<i>Oligota pumilio</i> Kiesenwetter 1858	7	1	1	0	0	2	2	0	1	prd
	<i>Othius lapidicola</i> Märkel & Kiesenwetter 1848	2	0	0	0	0	0	0	0	2	prd
	<i>Oxypoda</i> sp.	3	0	1	0	0	0	2	0	0	prd
	<i>Paederus fuscipes</i> Curtis 1826	1	0	0	0	0	0	0	0	1	prd
	<i>Quedius semiobscurus</i> (Marsham 1802)	10	0	3	0	0	0	1	2	4	prd
	<i>Quedius tristis</i> (Gravenhorst 1802)	4	0	2	0	0	0	0	0	2	prd
	<i>Sepedophilus immaculatus</i> (Stephens 1832)	160	2	13	1	18	7	47	23	49	prd
	<i>Stenus elegans</i> Rosenhauer 1856	1	0	0	0	0	0	0	1	0	prd
	<i>Tachyporus hypnorum</i> (Fabricius 1775)	1	0	0	0	0	0	1	0	0	prd
	<i>Tachyporus nitidulus</i> (Fabricius 1781)	127	1	55	2	15	10	34	2	8	prd
	<i>Tasgius pedator</i> (Gravenhorst 1802)	18	0	0	0	2	1	0	0	15	prd
	<i>Trogloloeus</i> sp.	1	0	0	0	0	1	0	0	0	prd

	<i>Xantholinus elegans</i> (Olivier 1795)	19	1	10	2	3	1	0	2	0	prd
	<i>Xantholinus linearis</i> (Olivier 1795)	2	2	0	0	0	0	0	0	0	prd
<b>Tenebrionidae</b>	<i>Asida sericea</i> (Olivier 1795)	864	310	158	104	46	139	34	72	1	sap
	<i>Bioplanes meridionalis</i> Mulsant 1854	71	2	3	1	41	15	3	5	1	sap
	<i>Omophlus lepturoides</i> (Fabricius 1787)	4	2	1	0	1	0	0	0	0	sap
	<i>Scaurus atratus</i> Fabricius 1775	20	11	4	0	1	3	1	0	0	sap
	<b>TOTAL ABUNDANCE</b>	<b>7533</b>	<b>1290</b>	<b>1110</b>	<b>792</b>	<b>1424</b>	<b>823</b>	<b>572</b>	<b>782</b>	<b>746</b>	
	<b>TOTAL RICHNESS</b>	<b>221</b>	<b>71</b>	<b>84</b>	<b>50</b>	<b>53</b>	<b>75</b>	<b>78</b>	<b>104</b>	<b>98</b>	