

Appendix 1.

Species of Coleoptera captured during the study and total abundance of each species. This list represents two summers of trapping effort (2001 and 2003). Guild assignments are as follows: C = coprophage, F = fungivore, H = herbivore, O = omnivore, P = predator, S = scavenger, and W = wood-borer. Indicator values represent the percent indication of each species for a given treatment type. Treatment indicates the habitat type for which a species was representative, based on a Monte Carlo randomization test. • P<0.10, * P<0.05, ** P<0.01, *** P<0.001.

Family	Species	total	guild	ordination	indicator	treatment
				code	value	
Anobiidae	<i>Paralobium mundum</i> Fall 1905	1	W	-	33.3	-
	<i>Ptinus</i> sp. 1	99	S	83	49.8	-
	<i>Ptinus</i> sp. 2	55	S	84	39.7	-
Anthicidae	<i>Ischyropalpus nitidulus</i> LeConte 1851	1	O	-	33.3	-
Bostrichidae	<i>Scobicia declivis</i> Lec. 1857	6	W	88	66.7	both *
Buprestidae	<i>Anthaxia aeneogaster</i> LaPort & Gory 1841	21	W	15	34.4	-
	<i>Serropalpus substriatus</i> Haldeman 1848	1	W	-	33.3	-

Byrrhidae	<i>Amphicyrta dentipes</i> Erichson 1843	3	H	-	22.2	-
Cantharidae	<i>Malthodes</i> sp.	30	O	67	48.8	-
	<i>Podabrus cavicollis</i> LeConte 1851	3	P	-	23.8	-
	<i>Podabrus</i> sp. 1	8	P	80	35.7	-
	<i>Podabrus</i> sp. 2	5	P	-	15.9	-
	<i>Podabrus</i> sp. 3	1	P	-	33.3	-
Carabidae	<i>Agonum</i> sp.	1	P	-	6.7	-
	<i>Amara californica</i> Dejean 1828	3	P	-	15.2	-
	<i>Anisodactylus similis</i> LeConte 1851	1	P	-	6.7	-
	<i>Bembidion</i> sp. 1	1	P	-	6.7	-
	<i>Bembidion</i> sp. 2	13	P	20	70.2	fire *
	<i>Bembidion</i> sp. 3	2	P	-	6.7	-
	<i>Bembidion</i> sp. 4	1	P	-	33.3	-
	<i>Callisthenes discors</i> LeConte 1857	5	P	-	29.4	-
	<i>Carabus taedatus</i> F. 1787	5	P	-	13.3	-
<i>Metrius contractus</i> Escholtz 1829	951	P	69	50.3	-	

	<i>Omus californicus</i> Escholtz 1829	276	P	75	54.1	fire *
	<i>Pterostichus (Hypherpes)</i> sp. 1	193	P	56	62.9	mech ***
	<i>Pterostichus (Hypherpes)</i> sp. 2	290	P	57	37.5	-
	<i>Pterostichus (Hypherpes)</i> sp. 3	80	P	58	32	-
	<i>Pterostichus (Hypherpes)</i> sp. 4	98	P	59	35.4	-
	<i>Pterostichus (Hypherpes)</i> sp. 5	49	P	60	63.6	mech *
	<i>Pterostichus (Leptoferonia) stapedius</i> Hacker 1968	2	P	-	13.3	-
	<i>Pterostichus inanis</i> Horn 1891	18	P	81	26.7	-
	<i>Pterostichus lama</i> Menetries 1843	228	P	82	47	control •
	<i>Pterostichus morionides</i> Chaudoir 1868	3	P	-	60.6	mech •
	<i>Scaphinotus marginatus</i> Fischer 1822	3	P	-	13.3	-
	<i>Sericoda bembidioides</i> Kirby 1837	1	P	-	22.7	-
	<i>Tanystoma striata</i> Dejean 1828	7	P	98	58	mech *
	<i>Trachypacus holmbergi</i> Mannerheim 1853	21	P	-	81	both *
	<i>Trechus</i> sp.	1	P	-	6.7	-
Cerambycidae	<i>Callidium antennatum</i> Casey 1912	1	W	-	33.3	-

	<i>Centrodera spurca</i> LeConte 1860	9	W	27	67.6	fire *
	<i>Clytus planifrons</i> LeConte 1874	24	W	30	51.7	-
	<i>Phymatodes decussatus</i> LeConte 1857	2	W	-	27.8	-
	<i>Phymatodes hirtellus</i> LeConte 1873	1	W	-	33.3	-
	<i>Pidonia gnathoides</i> LeConte 1873	2	W	-	33.3	-
	<i>Spondylis upiformis</i> Mannerheim 1843	13	W	92	60.6	both •
	<i>Strophiona laeta</i> LeConte 1857	14	W	94	37	-
	unknown Cerambycid sp. 1	2	W	-	27.8	-
	unknown Cerambycid sp. 2	1	W	-	33.3	-
	<i>Pachybrachis</i> sp.	1	H	-	33.3	-
Cicindellidae	<i>Cicindela</i> sp.	4	P	-	13.9	-
Ciidae	<i>Sulcaxis curtulus</i> Casey 1898	8	F	95	47.6	-
Cleridae	<i>Cymatodera ovipennis</i> LeConte 1859	7	P	-	92.6	both **
	<i>Phyllobaenus scaber</i> LeConte 1852	1	P	-	33.3	-
Coccinellidae	<i>Coccinella</i> sp.	1	P	-	6.7	-
	<i>Psyllobora vigintimaculata</i> Say 1824	1	P	-	33.3	-

	unknown Coccinellid sp. 1	1	P	-	33.3	-
	unknown Coccinellid sp. 2	1	P	-	33.3	-
Colydiidae	<i>Lasconotus</i> sp.	2	P	-	27.8	-
	<i>Oxyaemus californicus</i> Crotch 1875	1	F	-	33.3	-
Cryptophagidae	<i>Atomaria</i> sp. 1	171	F	14	80.4	both *
	<i>Atomaria</i> sp. 2	1	F	-	33.3	-
	<i>Cryptophagus</i> sp. 1	2	F	-	33.3	-
	<i>Cryptophagus</i> sp. 2	4	F	-	13.9	-
	<i>Henoticus</i> sp.	7	F	49	11.1	-
	unknown Cryptophagid sp.	5	F	-	19.6	-
Curculionidae	<i>Agronus cinerarius</i>	21	H	2	20.5	-
	<i>Cossonus crenatus</i> Horn 1873	1	H	-	33.3	-
	<i>Dyslobus lecontei</i> Casey 1895	58	H	42	38.6	-
	<i>Dyslobus</i> sp.	88	H	43	25.1	-
	<i>Nemocestes montanus</i> Van Dyke 1936	40	H	73	32.4	-
	<i>Rhyncolus oregonensis</i> Horn 1873	34	H	87	29.1	-

	<i>Rhyncolus</i> sp.	1	H	-	33.3	-
	<i>Sitonia</i> sp.	4	H	-	13.9	-
	<i>Thricolepis simulator</i> Horn 1876	58	H	100	74.3	fire •
	<i>Tychius</i> sp.	3	H	-	23.8	-
	unknown Curculionid sp. 1	5	H	103	15.9	-
	unknown Curculionid sp. 2	6	H	104	55.6	fire •
	unknown Curculionid sp. 3	237	H	-	35.8	-
	unknown Curculionid sp. 6	30	H	105	44.9	-
Dermestidae	<i>Trogoderma glabrum</i> Herbst 1783	20	S	102	24.5	-
Diphyllostomatidae	<i>Diphyllostoma linsleyi</i> Fall 1932	8	H	-	59.5	both *
Elateridae	<i>Ampedus mixtus</i> Herbst 1806	3	H	-	13.3	-
	<i>Ampedus phoenicopterus</i> Germar 1843	1	H	-	33.3	-
	<i>Ampedus rhodopus</i> LeConte 1857	2	H	-	33.3	-
	<i>Athous imitans</i> Fall 1910	28	H	17	27.5	-
	<i>Athous opilius</i> Candeze 1860	13	H	18	21.3	-
	<i>Athous scissus</i> Candeze 1860	3	H	-	15.2	-

	<i>Cardiophorus</i> sp. 1	32	H	22	47.6	-
	<i>Cardiophorus</i> sp. 2	19	H	23	16.1	-
	<i>Cardiophorus</i> sp. 3	2	H	-	16.7	-
	<i>Ctenicera imitans</i> Brown 1935	36	H	35	72.4	fire *
	<i>Ctenicera mendax</i> LeConte 1853	28	H	36	64.5	both •
	<i>Ctenicera pallidipes</i> Brown 1936	2	H	-	27.8	-
	<i>Limonius humeralis</i> Candeze 1960	8	H	66	20.8	-
	<i>Limonius maculicollis</i> Motschulsky 1859	2	H	-	33.3	-
	unknown Elaterid sp. 1	1	H	-	6.7	-
	unknown Elaterid sp. 2	2	H	-	27.8	-
	unknown Elaterid sp. 3	15	H	-	24.9	-
	unknown Elaterid sp. 4	3	H	-	23.8	-
	unknown Elaterid sp. 5	24	H	106	41.7	-
	unknown Elaterid sp. 6	1	H	-	6.7	-
Endomychidae	<i>Mycetina horni</i> Crotch 1873	2	F	-	75.3	mech *
	unknown Endomychid sp.	1	F	-	6.7	-

Erotylidae	<i>Dacne californica</i> Horn 1870	572	F	37	39.2	-
Euchnemidae	<i>Melasis rufipennis</i> Horn 1886	1	F	-	33.3	-
Geotrupidae	<i>Bolboceras obesus</i> LeConte 1859	9	U	21	30.3	-
Histeridae	<i>Bacanius</i> sp.	1	P	-	33.3	-
	<i>Psiloscelis subopacus</i> Lec. 1863	1	P	-	6.7	-
	<i>Stictostix californica</i> Horn 1870	39	P	-	33.3	-
Lampyridae	<i>Phausis riversi</i> LeConte 1884	28	P	-	6.7	-
Latridiidae	<i>Ardius</i> sp.	1	F	-	6.7	-
	<i>Cartodere constrictus</i>	11	F	26	38.8	-
	<i>Corticarina</i> sp.	2	F	-	16.7	-
	<i>Enicmus tenuicornis</i> LeConte 1878	52	F	45	59.8	fire •
	<i>Latridius</i> sp. 1	76	F	64	34.6	-
	<i>Latridius</i> sp. 2	7	F	65	14.5	-
	<i>Latridius</i> sp. 3	2	F	-	16.7	-
	<i>Metophthalmus</i> sp.	91	F	68	54.1	mech *
	<i>Microgramme</i> sp.	1	F	-	33.3	-

Leiodidae	<i>Agathidium</i> sp. 1	3	F	-	44.4	-
	<i>Agathidium</i> sp. 2	1	F	-	33.3	-
	<i>Agathidium</i> sp. 3	2	F	-	16.7	-
	<i>Anisotoma nevadensis</i> Brown 1937	1	F	-	6.7	-
	<i>Anisotoma</i> sp.	2	F	-	27.8	-
	<i>Colon</i> sp.	19	F	33	23.3	-
	<i>Hydnobius</i> sp. 1	5	F	-	6.7	-
	<i>Hydnobius</i> sp. 2	17	F	52	75.5	mech *
	<i>Hydnobius</i> sp. 3	7	F	-	32.3	-
	<i>Ptomaphagus</i> sp.	442	S	85	53.2	-
Lucanidae	<i>Platyceroides latus</i> Fall 1901	41	H	79	22.3	-
Lyctidae	<i>Lyctus</i> sp. 2	2	F	-	66.7	both *
Melandryidae	<i>Abdera bicinctus</i> Horn 1888	3	F	-	20	-
	<i>Eustrophinus tomentosus</i> Say 1827	8	F	47	13.9	-
	unknown Melandryid sp.	3	F	-	33.3	-
Melyridae	<i>Dasyrhadus</i> sp. 1	5	O	-	33.3	-

	Dasytini sp. 1	1	O	-	28.5	-
	Dasytini sp. 2	26	O	38	19.6	-
	<i>Pseudasydates inyoensis</i> Blaisdell 1938	1	O	-	6.7	-
	<i>Trichochrous</i> sp.	8	O	101	11.9	-
Monotomidae	<i>Hesperobaenus</i> sp.	27	F	50	33.1	-
Mordellidae	<i>Mordella</i> sp.	15	H	70	53.2	both •
Mycetophagidae	<i>Mycetophagus californicus</i> Horn 1878	33	F	71	11.1	-
	<i>Mycetophagus</i> sp.	7	F	72	27.8	-
Nemonychidae	<i>Cimberis comptus</i> LeConte 1876	5	F	-	31.7	-
Nitidulidae	<i>Carpophilus</i> sp. 1	11	F	24	30.3	-
	<i>Carpophilus</i> sp. 2	6	F	25	33.3	-
	<i>Pityophagus rufipennis</i> Horn 1872	13	P	-	100	both **
Nitidulidae	<i>Soronia guttulata</i> LeConte 1863	15	F	91	45.8	-
	<i>Thalycra</i> sp. 1	22	F	99	51.7	fire •
	<i>Thalycra</i> sp. 2	4	F	-	20	-
	<i>Thalycra</i> sp. 3	4	F	-	41.7	-

Ochodaeidae	<i>Pseudochodaeus estriatus</i> Carlson & Richter 1974	1	U	-	33.3	-
Phalacridae	<i>Phalacrus</i> sp.	1	F	-	33.3	-
Ptiliidae	unknown Ptiliid sp. 1	304	F	107	33.1	-
	unknown Ptiliid sp. 2	2	F	-	33.3	-
	unknown Ptiliid sp. 3	20	F	108	48.2	-
	unknown Ptiliid sp. 4	72	F	109	55.8	mech •
	unknown Ptiliid sp. 5	19	F	110	87.3	mech **
	unknown Ptiliid sp. 6	7	F	111	37	-
Rhysodidae	<i>Clinidium calcaratum</i> LeConte 1875	20	F	29	41.7	-
Salpingidae	<i>Elacitus</i> sp.	2	S	-	16.7	-
Scarabaeidae	<i>Aphodius</i> sp.	82	C	16	67.1	mech *
	<i>Canthon simplex</i> LeConte 1857	2	C	-	16.7	-
	<i>Dichelonyx crotchii</i> Horn 1876	36	H	40	37.5	-
	<i>Dichelonyx lateralis</i> Fall 1901	15	H	41	28.4	-
	<i>Serica anthracina</i> LeConte 1856	1	H	-	6.7	-
	<i>Serica curvata</i> LeConte 1856	31	H	90	33.3	-

Scolytidae	<i>Hylastes gracilis</i> LeConte 1868	23	W	53	77.7	both *
	<i>Hylastes macer</i> LeConte 1868	71	W	54	82.6	both *
	<i>Hylurgops porosus</i> LeConte 1868	129	W	55	53.9	-
	<i>Hylurgops subscostulatus</i> Mannerheim 1853	2	W	-	27.8	-
	<i>Phloeosinus punctatus</i> LeConte 1876	2	W	-	33.3	-
	<i>Phloeosinus</i> sp.	1	W	-	6.7	-
	<i>Pityophthorous</i> sp.	1	W	-	6.7	-
	<i>Pseudopityophthorus pubipennis</i> LeConte 1878	1	W	-	33.3	-
	<i>Scolytus ventralis</i> LeConte 1868	4	W	-	16.7	-
	<i>Xyleborinus saxeseni</i> Ratz. 1837	26	W	114	43.9	-
<i>Xyleborus scopulorum</i> Hopkins 1902	74	W	115	49.3	-	
Scraptiidae	<i>Anaspis</i> sp. 1	10	H	13	19.2	-
	<i>Anaspis</i> sp. 2	7	H	-	30.9	-
Scydmaenidae	<i>Lophioderus</i> sp.	4	P	-	41.7	-
	<i>Veraphis</i> sp. 1	3	P	-	15.2	-
	<i>Veraphis</i> sp. 2	11	P	113	16.1	-

Staphylinidae	<i>Actium</i> sp. 1	85	P	1	47	-
	<i>Actium</i> sp. 2	1	P	-	6.7	-
	<i>Actium</i> sp. 3	1	P	-	6.7	-
	<i>Aleochara</i> sp.	4	P	-	50	both •
	Aleocharinae sp. 1	75	P	3	46.8	-
	Aleocharinae sp. 2	523	P	8	40.4	-
	Aleocharinae sp. 3	10	P	-	26.7	-
	Aleocharinae sp. 5	2	P	-	13.3	-
	Aleocharinae sp. 7	1	P	-	6.7	-
	Aleocharinae sp. 8	1	P	-	6.7	-
	Aleocharinae sp. 9	49	P	11	69.4	mech *
	Aleocharinae sp. 10	1	P	-	6.7	-
	Aleocharinae sp. 11	1	P	-	6.7	-
	Aleocharinae sp. 12	7	P	4	22.2	-
	Aleocharinae sp. 13	14	P	-	92.9	both **
	Aleocharinae sp. 14	6	P	5	38.5	-

Aleocharinae sp. 15	159	P	6	50.6	mech **
Aleocharinae sp. 16	3	P	-	20	-
Aleocharinae sp. 17	2	P	-	33.3	-
Aleocharinae sp. 19	27	P	7	36.8	-
Aleocharinae sp. 20	6	P	-	64.1	mech *
Aleocharinae sp. 22	2	P	-	27.8	-
Aleocharinae sp. 23	4	P	-	20.8	-
Aleocharinae sp. 24	13	P	9	34	-
Aleocharinae sp. 25	36	P	10	23.3	-
Aleocharinae sp. 26	2	P	-	13.3	-
<i>Amphichroum maculatum</i> Horn 1882	6	H	12	18.5	-
<i>Astenus</i> sp.	1	P	-	33.3	-
<i>Batrisodes cicatricosis</i> Brendel 1890	19	P	19	29.5	-
<i>Bryoporus</i> sp.	6	P	-	90.9	mech **
<i>Deinopteroloma pictum</i> Fauvel 1878	39	F	39	56	mech •
<i>Eusphalerum</i> sp. 2	84	H	46	72.3	mech •

<i>Gabrius</i> sp.	4	P	-	62.5	fire •
Habrocerinae sp.	1	P	-	33.3	-
<i>Habrolinus</i> sp.	2	P	-	16.7	-
<i>Hesperolinus</i> sp.	7	P	51	64.5	both *
<i>Ichnosoma californicum</i> Bernhauer & Schubert 1912	118	S	61	59.8	control **
<i>Lathrobium</i> sp. 1	7	P	63	37	-
<i>Lathrobium</i> sp. 2	1	P	-	33.3	-
<i>Mipseltyrus mirus</i> Schuster 1956	2	P	-	27.8	-
Omaliinae sp. 2	2	P	-	13.3	-
<i>Oropus</i> sp.	1	P	-	33.3	-
<i>Philonthus</i> sp. 1	1	P	-	33.3	-
<i>Philonthus</i> sp. 2	10	P	78	40	-
<i>Platydracus rutilicanda</i> Horn 1879	5	P	-	25.6	-
<i>Quedius</i> sp. 1	8	P	86	16.7	-
<i>Quedius</i> sp. 3	3	P	-	15.2	-
<i>Quedius</i> sp. 4	4	P	-	20.8	-

	<i>Quedius</i> sp. 6	1	P	-	33.3	-
	<i>Renardia</i> sp.	1	F	-	33.3	-
	<i>Stenus vespertinus</i> Casey 1884	3	P	-	60.6	both •
	<i>Stictolinus</i> sp.	1	P	93	35.5	-
	<i>Tachinus semirufus</i> Horn 1877	153	P	97	51.8	mech *
	<i>Tachyporus californicus</i> Horn 1877	76	P	96	75.3	mech **
	<i>Tyrus corticinus</i> Casey 1897	1	P	-	6.7	-
	unknown Staphylinid sp. 1	2	P	-	30.3	-
	unknown Staphylinid sp. 2	1	P	-	6.7	-
	unknown Staphylinid sp. 3	3	P	-	33.3	-
Tenebrionidae	<i>Cibdelis blaschkei</i> Mannerheim 1843	15	S	28	34.2	-
	<i>Cnemeplatia sericea</i> Horn 1870	59	S	31	38.4	-
	<i>Coelocnemis californica</i> Mannerheim 1843	174	S	32	36	-
	<i>Coniontis</i> sp.	113	S	34	47.9	-
	<i>Eleodes cordata</i> Escholtz 1833	1737	S	44	32.5	-
	<i>Helops punctipennis</i> LeConte 1866	5	S	-	26.7	-

	<i>Helops simulator</i> Blaisdell 1921	92	S	48	42.7	-
	<i>Iphthminus serratus</i> Mannerheim 1843	8	P	62	20.8	-
	<i>Megeleates sequoiarum</i> Casey 1895	1	S	-	33.3	-
	<i>Mycetochara</i> sp.	2	S	-	27.8	-
	<i>Nyctoporis sponsa</i> Casey 1907	198	S	74	51.6	-
	<i>Scotobaenus parallelus</i> LeConte 1859	10	S	89	30	-
Throscidae	<i>Pactopus horni</i> LeConte 1868	1529	F	76	42.9	-
Zopheridae	<i>Phellopsis porcata</i> LeConte 1853	5	F	77	39.2	-
	<i>Usechimorpha montana</i> Doyen 1979	6	F	112	60.6	both •
