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## A Preliminary List of the Carabidae Known to Occur in Iowa

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## A PRELIMINARY LIST OF THE CARABIDAE KNOWN TO OCCUR IN IOWA

H. E. JAQUES AND LEONARD REDLINGER

Ground Beetles, as this Coleopterous family is called, are for the most part terrestrial and hide in almost every conceivable place. They are particularly abundant under stones and objects on the ground and wherever other small invertebrates are found. Practically all of them are carnivorous and mostly nocturnal in habits. Many species are attracted to lights, and may be easily collected at night or by the use of light traps. The Carabids are predacious on worms, snails, caterpillars, grubs, maggots, and in fact almost any living animal that they can overcome. Because of their predatory habits they are considered beneficial, however a few of the genera are harmful in that they devour berries, seeds, pollen, tender shoots and the foliage of plants.

The ground beetles vary widely in size some approaching the

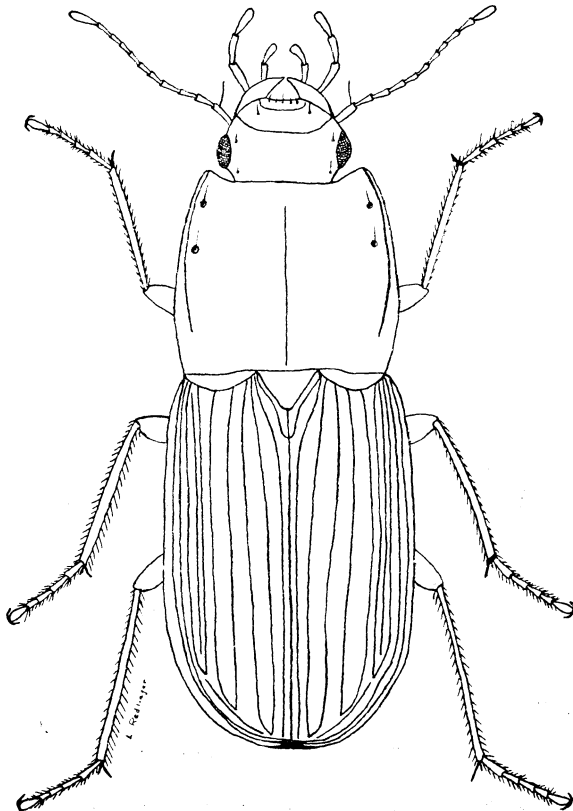


Fig. 1. 1465 *Dicaelus elongatus* Bon.

microscopic. At the other extreme, some Iowa species measure well over an inch in length. Many of the species are black, but some are highly colored, which makes them very attractive. The antennae are long, filiform, eleven-segmented and they are inserted between the base of the mandibles and the eyes. The mouth parts are well developed; the mandibles are large. The tarsi are five-segmented. The elytra almost always have longitudinal ridges and are frequently punctured. Two typical species are pictured. (Figs. 1 and 2).

The larvae of ground beetles are generally long and slender with sharp projecting mandibles. They live in the same obscure places as the adult insects but are more shy, and are consequently less frequently seen.

A list of the Carabidae known to occur in Iowa follows. The

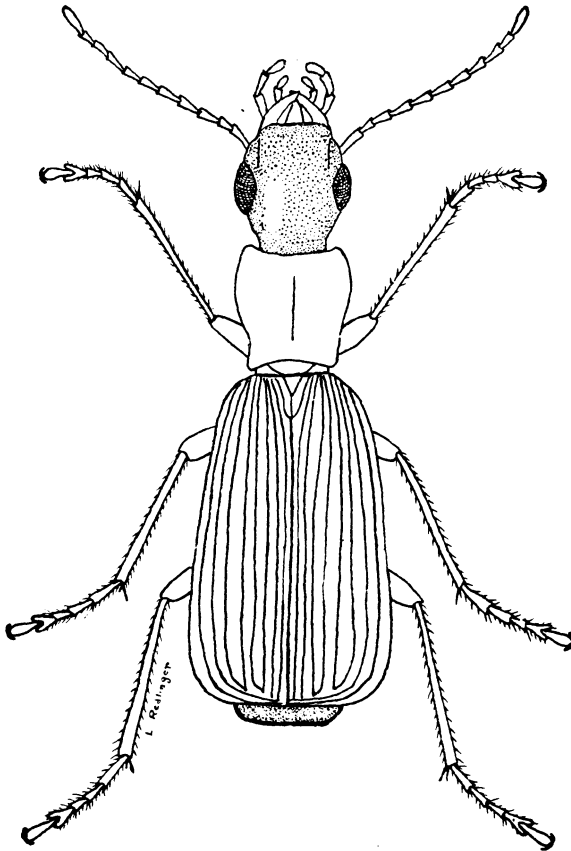


Fig. 2. 1710 *Calleida punctata* Lec.

ones marked with an \* are known only from the records of other collectors. Specimens of all species not so marked are found in the

Iowa Insect Survey Collection at Iowa Wesleyan College. Further collecting will doubtless furnish many additional species in this large and interesting family.

125	<i>Scaphinotus elevatus</i> (Fab.)	1522b	<i>A. extensicollis viridus</i> (Lec.)*
135	<i>Nomaretus fissicollis</i> Lec.	1523	<i>A. decorus</i> (Say)
162	<i>Sphaeroderus lecontei</i> Dej.	18938	<i>Europhilus elongatulus</i> Hald.
170	<i>Carabus sylvosus</i> Say	1537	<i>Platynidius errans</i> (Say)
171	<i>C. serratus</i> Say	1539	<i>P. tenuis</i> Lec.*
172	<i>C. limbatus</i> Say	1541	<i>P. nutatus</i> G&H, n.m.*
176	<i>Calosoma externum</i> Say	1542	<i>P. melanarius</i> (Dej.)
180	<i>C. scrutator</i> Fab.	1546	<i>Platynidius affinis</i> (Kby.)
181	<i>C. willcoxi</i> Lec.	1552	<i>P. deceptivus</i> Lec.*
183	<i>C. frigidum</i> Kby.	1553	<i>P. cupripennis</i> (Say)
195	<i>C. lugubre</i> Lec.	1555	<i>P. excavatus</i> (Dej.)
200	<i>C. obsoletum</i> Say.	1556	<i>Playtnusferreus</i> (Hald.)
204	<i>C. calidum</i> Fab.	1557	<i>Platynidius basalis</i> (Lec.)*
226	<i>Elaphrus cicatricosus</i> Lec.*	1558	<i>P. nutans</i> (Say)
230	<i>E. riparius</i> L.	1560	<i>P. picticornis</i> Newn.*
233	<i>E. ruscarius</i> Say	1566	<i>P. octopunctatus</i> (Fab.)
241	<i>Loricera caeruleascens</i> (L.)*	1567	<i>P. placidus</i> (Say)
		1573	<i>P. obsoleta</i> (Say)*
245	<i>Opisthius richardsoni</i> Kby.	1577	<i>P. aeruginosus</i> (Dej.)*
		1579	<i>P. crenistriatus</i> Lec.
246	<i>Notiophilus aeneus</i> Hbst.*	1581	<i>P. punctiformis</i> (Say)
		1582	<i>Platynus sordens</i> Kby.
247	<i>N. semistriatus</i> Say	1584	<i>Platynidius ruficornis</i> Lec.*
251	<i>N. novemstriatus</i> Lec.		
292	<i>Nebria pallipes</i> Say	1586	<i>Platynus gemellus</i> Lec.
295	<i>N. lacustris</i> Csy.	1587	<i>Platynidius picipennis</i> (Kby.)
308	<i>Pasimachus depressus</i> Fab.	1588	<i>P. lutulentus</i> Lec.*
310	<i>P. elongatus</i> Lec.	1592	<i>Platynus obscurus</i> Hbst.
316	<i>Scarites subterraneus</i> Fab.	1595	<i>Olisthopus parmatus</i> (Say)
317	<i>S. substriatus</i> Hald.	1596	<i>O. micans</i> Lec.*
324	<i>Dyschirius nigripes</i> Lec.	1609	<i>Atranus pubescens</i> (Dej.)
329	<i>D. aeneolus</i> Lec.*	1610	<i>Leptotrachelus dorsalis</i> (Fab.)
331	<i>D. globulosus</i> Say		
334	<i>D. haemorrhoidalis</i> Dej.*	1612	<i>Casnonia pennsylvanica</i> L.
339	<i>D. sphaericollis</i> Say		
341	<i>D. truncatus</i> Lec.*	1615	<i>Galerita atripes</i> Lec.*
342	<i>D. erythrocerus</i> Lec.*	1616	<i>G. janus</i> Fab.
355	<i>D. hispidus</i> Lec.	1620	<i>G. bicolor</i> Drury
358	<i>Clivina dentipes</i> Dej.	1620b	<i>G. bicolor intermedia</i> Csy.
359	<i>C. impressifrons</i> Lec.		
366	<i>C. rufa</i> Lec.*	1623	<i>Zuphium americanum</i> Dej.
369	<i>C. americana</i> Dej.		
372	<i>C. striatopunctata</i> Dej.*	1636	<i>Tetragonoderus fasciatus</i> Hald.
373	<i>C. ferrea</i> Lec.*		
375	<i>C. bipustulata</i> (Fab.)	1641	<i>Lebia grandis</i> Hentz.
380	<i>Aspidoglossa subangulata</i> (Chd.)*	1642	<i>L. atriventris</i> Say
		1643	<i>L. tricolor</i> Say
383	<i>Schizogenius lineolatus</i> (Say)	1655	<i>L. viridis</i> Say
		1658	<i>L. pumila</i> Dej.
385	<i>S. ferrugineus</i> Putz.	1664	<i>L. viridipennis</i> Dej.
386	<i>S. amphibioides</i> (Hald.)*	1667	<i>L. ornata</i> Say
396	<i>Ardistomis puncticollis</i> (Dej.)	1671	<i>L. analis</i> Dej.
		1672	<i>L. fuscata</i> Dej.

399	<i>Panagaeus fasciatus</i> Say	18981	<i>Smicronyx canonica</i> Csy.
408	<i>Bembidion inaequale</i> Say	1675	<i>Lebia scapularis</i> Dej.
411	<i>B. littorale</i> (Oliv.)*	1681	<i>L. vittata</i> Fab.
419	<i>B. punctatostriatum</i> Say*	1686	<i>L. bivittata</i> Fab.
422	<i>B. aenulum</i> Hayw.*	1691	<i>Dromius piceus</i> Dej.
423	<i>B. robusticolle</i> Hayw.*	1694	<i>Apristus subsulcatus</i> (Dej.)
426	<i>B. confusum</i> Hayw.		<i>Blechrus glabratus</i> (Duft.)
429	<i>B. coxendix</i> Say*	1696	<i>Metabletus americanus</i> (Dej.)
431	<i>B. bifossulatum</i> (Lec.)	1699	<i>Axinopalpus biplagiatus</i> (Dej.)
432	<i>B. americanum</i> Dej.		<i>Calleida punctata</i> Lec.
438	<i>B. nitidum</i> (Kby.)*		<i>C. purpurea</i> (Say)*
439	<i>B. obliquulum</i> Lec.*	1700	<i>Plochionus timidus</i> Hald.
440	<i>B. laevigatum</i> Say		<i>Pinacodera limbata</i> (Dej.)
482	<i>B. planatum</i> (Lec.)*	1710	<i>P. platicollis</i> (Say)
512	<i>B. nigrum</i> Say	1712	<i>P. platicollis fuscata</i> (Dej.)
565	<i>B. texanum</i> Chd.	1723	<i>Cymindis planipennis</i> Lec.
572	<i>B. picipes</i> (Kby.)*	1725	<i>C. pilosa</i> Say
577	<i>B. Postremum</i> Say		<i>C. cribrata</i> Lec.*
584	<i>B. lucidum</i> (Lec.)	1726	<i>C. americana</i> Dej.
588	<i>B. tetracolum</i> Say*	1726a	<i>Apenes lucidula</i> (Dej.)
590	<i>B. dilatatum</i> (Lec.)		<i>A. sinuata</i> (Say)
591	<i>B. honestum</i> Say*	1742	<i>Pentagonica flavipes</i> (Lec.)*
592	<i>B. chalceum</i> Dej.		<i>P. flavipes bicolor</i> Lec.
599	<i>B. fuscicrum</i> Mots.	1746	<i>Helluomorpha bicolor</i> Harris
648	<i>B. posticum</i> (Hald.)	1749	<i>Brachinus americanus</i> Lec.
651	<i>B. patruale</i> Dej.	1752	<i>B. janthinipennis</i> (Dej.)
655	<i>B. intermedium</i> (Kby.)	1753	<i>B. viridipennis perplexus</i> Dej.
658	<i>B. dorsale</i> Say*	1756	<i>B. pulchellus</i> Blatch.
659	<i>B. versutum</i> Lec.*	1760	<i>B. quadripennis</i> Dej.
660	<i>B. variegatum</i> Say		<i>B. cyanipennis</i> Say
665	<i>B. fidele</i> Csy.*	1760a	<i>B. alternans</i> Dej.
679	<i>B. arcuatum</i> Lec.	1770	<i>B. ballistarius</i> Lec.
680	<i>B. graciliforme</i> Hayw.		<i>B. fumans</i> (Fab.)
686	<i>B. cordatum</i> (Lec.)	1774	<i>B. cordicollis</i> Dej.
705	<i>B. affine</i> Say		<i>Chlaenius tomentosus</i> (Say)
722	<i>B. flavipictum</i> Mots.	1775	<i>C. purpuricollis</i> Rand.*
723	<i>B. versicolor</i> (Lec.)	1776a	<i>C. nigher</i> Rand.*
730	<i>B. oberthuri</i> Hayw.*		<i>C. impunctifrons</i> Say
737	<i>B. quadrimaculatum</i> (L)	1777	<i>C. pennsylvanicus</i> Say
744	<i>B. pedicellatum</i> Lec.	1780	<i>C. brevilabris</i> Lec.
754	<i>B. sulcatum</i> (Lec.)*	1783	<i>C. tricolor</i> Dej.
759	<i>B. frontale</i> (Lec.)	1786	<i>C. nemoralis</i> Say
792	<i>Pericompsus ephippiatus</i> (Say)	1788	<i>C. solitarius</i> Say
797	<i>Tachyura dolosa</i> (Lec.)*	1789	<i>C. leucoscelis</i> Chev.
805	<i>T. incurva</i> (Say.)	1790	<i>C. cordicollis</i> Kby.
811	<i>T. granaria</i> (Dej.)*	1806	<i>C. prasinus</i> Dej.
825	<i>T. capax</i> (Lec.)	1808	<i>C. platyderus</i> Chd.*
829	<i>T. tripunctata</i> (Say)*	1810	<i>C. diffinis</i> Chd.
834	<i>T. ferrugineus</i> (Dej.)	1814	<i>C. laticollis</i> Say
836+	<i>Tachys</i> sp.	1817	<i>C. sericeus</i> Forst.
849	<i>T. proximus</i> (Say)	1819	<i>C. fuscicornis</i> Dej.
851	<i>T. scitulus</i> Lec.	1821	
857	<i>T. coruscus</i> Lec.	1822	
883	<i>T. laevus</i> (Say)	1830	
890	<i>Tachyta nana</i> (Gyll.)	1831	
892	<i>T. inornata</i> Say	1831a	
898	<i>Trachymenis flavicauda</i> Say	1834	
901	<i>Patrobus longicornis</i> (Say)	1840	
1006	<i>Pterostichus adoxus</i> (Say)	1841	
1020	<i>Leptoferonia ovicollis</i>	1842	
		1846	
		1847	

	(Schffr.)*	1848	C. erythropus Germ.
1034	Anaferonia constricta (Say)	1856	Anomoglossus emarginatus (Say)
1040	A. incisa (Lec.)	1858	A. pusillus (Say)
1058	Eumolops sodalis (Lec.)	1860	Brachylobus lithophilus (Say)
1061	E. colossus (Lec.)		
1062	E. Torva (Lec.)	1862	Lachnocrepis parallelus (Say)
1070	Evarthrus seximpressus (Lec.)	1868	Oodes americanus Dej.
1074	E. orbatus (Newn.)*	1870	O. cupreus Chd.
1089	Euferonia stygica (Say)	1878	Geopinus incrassatus (Dej.)
1103	Abacidus sculptus (Lec.)		
1105	A. permundus (Say)	1882	Nothopus valens Csy.
1108	Gastrosticta ventralis (Say)	1884	N. zabroides Lec.*
		1886	Cratacanthus dubius (Beauv.)
1110	G. obscura (Say)		
1161	Poecilus chalcites Say	1895	Pharalus testaceus (Lec.)
1162	P. lucublandus Say		
1164	P. convexicollis Say	1896	Harpalus caliginosus (Fab.)
1166	Lophoglossus haldemani (Lec.)*	1897	H. erraticus Say
1167	L. tartaricus (Say)	1907	H. vagans Lec.
1169	L. scrutator (Lec.)*	1910	H. erythropus Dej.
1173	Omaseus ebeninus Dej.	1915	H. compar Lec.
1174	O. caudicalis (Say)	1920	H. longicollis Lec.
1175	O. luctuosus (Dej.)	1922	H. faunus Say
1176	O. corvinus (Dej.)	1925	H. pennsylvanicus Deg.
1177	Dysidius purpuratus Lec.	1933	H. viduus Lec.
		1936	H. rufimanus Lec.*
1178	D. mutus (Say)	1956	H. herbivagus Say
1181	Pseudargutor erythropus (Dej.)	1957	H. fallax Lec.
		1971	H. nitidulus Chd.
1182	Micromaseus patruelis (Dej.)	1975	H. ellipsis Lec.
		1979	H. funestus Lec.
1183	Micromaseus femoralis (Kby.)	2006	H. obesulus Lec.*
		2007	H. spadiceus (Dej.)*
1188	Bothriopterus pennsylvanicus (Lec.)	2009	H. vulpeculus Say
		2010	H. dichrous Dej.
1209b	Loxandrus lucidulus	19077	H. blanditus Csy.
	Brevicollis (Lec.)*	2013	Selenophorus opalinus Lec.*
1209c	L. minor (Chd.)		
1223	L. agilis (Dej.)	2026	S. ellipticus Dej.
1243	Curtonotus carivatus (Lec.)	2034	S. planipennis Lec.
		2039	S. pedicularius Dej.
1244	C. rufimanus (Kby.)*	2051	Gynandropus hylacis (Say)
1256	C. infaustus Lec.	2064	Discorderus parallelus (Hald.)
1259	C. pennsylvanicus Hayw.		
1262	Leiocnemis avida (Say)	2066	Hartonymus hoodi Csy.
1265	Bradytus exaratus Dej.	2070	Triplectrus carbonarius (Say)
1267	B. apricarius (Payk.)		
1281	Percosia obesa (Say)	2071	T. rusticus (Say)
1285	Celia patruelis (Dej.)	2079	T. dulcicollis Laf.
1309	C. remotestriata Dej.*	2087	Anisodactylus harrisii Lec.
1319	C. chalcea Dej.*		
1350	C. subaenea Lec.	2088	A. nigerrimus Dej.
1372	C. musculus (Say)	2090	A. nigrita Dej.
1379sp.	Amara sp.	2092	A. agricola Say
1385	A. impuncticollis Say	2107	A. coenus Say
1389	A. fallax Lec.	2110	Xestonotus lugubris (Dej.)
1400	A. cupreolata Putz.		
1415	A. polita Lec.	2111	Amphasia interstitialis (Say)
1429	A. basillaris (Say)		

1430	<i>Triaena pallipes</i> Kby.	2112	<i>Pseudamphasia sericea</i> (Harris)
1433	<i>T. angustata</i> (Say)	2126	<i>Anadaptus discoideus</i> (Dej.)
1441	<i>Rembus major</i> Lec.	2127	<i>A. baltimorensis</i> (Say)
1441a	<i>R. major expansa</i> Csy.	2132	<i>Anisotarsus sayi</i> Blatch.
1442	<i>R. laticollis</i> Lec.	2139	<i>A. terminatus</i> (Say)
1443	<i>R. impressicollis</i> Dej.	2144	<i>Spongopus verticalis</i> Lec.
1444	<i>R. obtusa</i> Lec.	2146	<i>Trichocellus cognatus</i> Gyll*.
1446	<i>A. alternans</i> Csy.	2159	<i>Triliarthrus badiipennis</i> (Hald.)
1450	<i>Dicaelus dilatatus</i> Say	2163	<i>atrime dius</i> (Say)
1450a	<i>D. dejeani</i> Dej.	2171	<i>Stenocellus rupestris</i> (Say)
1452	<i>D. splendidus</i> Say	2173	<i>S. debilipes</i> (Say)*
1454	<i>D. purpuratus</i> Bon.*	2175	<i>S. congener</i> (Lec.)
1458	<i>D. sculptilis</i> Say	2203	<i>Amerinus linearis</i> (Lec.)
1460	<i>D. furvus</i> Dej.	2213	<i>Acupalpus carus</i> (Lec.)
1464	<i>D. ovalis</i> Lec.	2216	<i>Stenolophus carbonarius</i> (Dej.)
1465	<i>D. elongatus</i> Bon.	2218	<i>S. ochropezus</i> (Say)
1466	<i>D. ambiguus</i> Laf.	2220	<i>S. fuliginosus</i> Dej.
1468	<i>D. politus</i> Dej.	2234	<i>S. plebejus</i> Dej.
1470	<i>Badister notatus</i> Hald.	2238	<i>S. conjunctus</i> (Say)
1471	<i>B. pulchellus</i> Lec.	2245	<i>Tachistodes indistinctus</i> (Dej.)*
1472	<i>B. bipustulatus</i> Fab.*	2246	<i>T. testaceus</i> (Dej.)
1478	<i>B. flavipes</i> Lec.*	2247	<i>T. pauperculus</i> (Dej.)
1481	<i>B. reflexus</i> Lec.	2249	<i>T. partarius</i> (Say)
1482	<i>Calathus gregarius</i> Dej.	2251	<i>Agonoderus lineola</i> (Fab.)
1483	<i>C. ingratus</i> Dej.	2261	<i>A. comma</i> (Fab.)
1484	<i>C. opaculus</i> Lec.		
1489	<i>Pristodactyla impunctata</i> (Say)		
1513	<i>Platynidius decens</i> Say*		
1514	<i>P. sinuatus</i> (Dej.)		
1518	<i>P. cincticollis</i> (Say)*		
1521	<i>Platynus brunneomarginatus</i> Mann.		
1522	<i>Anchomenus extensicollis</i> (Say)		

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