

## An Annotated Checklist of Wisconsin Ground Beetles (Coleoptera: Carabidae)

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### Abstract

A survey of Carabidae in the state of Wisconsin, U.S.A. yielded 87 species new to the state and incorporated 34 species previously reported from the state but that were not included in an earlier catalogue, bringing the total number of species to 489 in an annotated checklist. Collection data are provided in full for the 87 species new to Wisconsin but are limited to county occurrences for 187 rare species previously known in the state. Recent changes in nomenclature pertinent to the Wisconsin fauna are cited.

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The Carabidae, commonly known as 'ground beetles', with 34,275 described species worldwide is one of the three most species-rich families of extant beetles (Lorenz 2005). Ground beetles are often chosen for study because they are abundant in most terrestrial habitats, diverse, taxonomically well known, serve as sensitive bioindicators of habitat change, easy to capture, and morphologically pleasing to the collector. North America north of Mexico accounts for 2635 species which were listed with their geographic distributions (states and provinces) in the catalogue by Bousquet and Laroche (1993). In Table 4 of the latter reference, the state of Wisconsin was associated with 374 ground beetle species. That is more than the surrounding states of Iowa (327) and Minnesota (323), but less than states of Illinois (452) and Michigan (466). The total count for Minnesota was subsequently increased to 433 species (Gandhi et al. 2005). Wisconsin county distributions are known for 15 species of tiger beetles (subfamily Cicindelinae) (Brust 2003) with collection records documented for *Tetracha virginica* (Grimek 2009). Inventories in Wisconsin for the entire Carabidae were limited to southeastern counties (Rauterberg 1885) and Bayfield county (Wickham 1895).

This first state-wide survey of Wisconsin ground beetles conducted from literature searches, inventories of private and institutional collections, and 10 years of field work yielded 489 species from 95 genera in 34 tribes. Of these, 121 species and subspecies were not listed from Wisconsin in the catalogue by Bousquet and Laroche (1993), the last publication to comprehensively address the ground beetle fauna of North America, including Wisconsin. Each newly added species is flagged with one or more lower case bold letters inside brackets which identify a literature record and/or specimen repositories (Table 1). Among the 121 flagged species are 87 new state records (highlighted in bold face). Also new to Wisconsin are 16 genera and five tribes which appear in bold. Several taxa recorded herein include either newly described species or resurrected species in the literature after 1993. Counties (identified in Fig. 1) are summarized for the 87 species newly recorded from Wisconsin and 187 previously recorded species considered rare. Complete collection data with repositories and comments on geographic range are provided for each of the 87 new species records separately from the checklist. Eight of the new state records represent significant extensions of previously known species ranges. Species names are further marked as follows: superscripted asterisk \* denotes introduced; superscripted cross + denotes Holarctic.

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Table 1. Descriptions of the source codes used to flag the 121 species not given Wisconsin status by Bousquet and Larochelle (1993).

code	Source of specimen
a	Collected and determined (det) by the author P.W. Messer 1999-2009.
b	Byron L. Buchli private collection; det P.W. Messer.
c	Carnegie Museum of Natural History, Pittsburgh, PA.
d	Wisconsin Department of Natural Resources Research Center, Madison, WI.
e	Drew A. Hildebrandt private collection; det confirmed by P.W. Messer.
f	Field Museum of Natural History, Chicago, IL.
g	Herbert J. Grimek private collection; det H. J. Grimek and P. W. Messer.
h	Noonan (1991). Classification, cladistics, and natural history of native North American <i>Harpalus</i> Latreille.
i	Noonan (1996). Classification, cladistics, and natural history of species of the subgenus <i>Anisodactylus</i> Dejean.
j	Sadek (1982). M.Sc. thesis on genus <i>Abacidus</i> .
k	Kleintjes et al. (2002). Records from Eau Claire Co., WI.
l	Dan L. Dettwiler private collection; det P.W. Messer.
m	Milwaukee Public Museum, insect collection, Milwaukee, WI.
n	Haack et al. (1998) make reference to the 1994 and 1997 gap studies of Carabidae in Nicolet National Forest, Wisconsin. A corresponding preliminary checklist of Carabidae determined by Robert L. Davidson is available as an unpublished document. Vouchers are at Carnegie Museum of Natural History, Pittsburgh, PA. Three species on that list have no other published records for Wisconsin, namely, <i>Amara familiaris</i> , <i>Bradycellus semipubescens</i> , and <i>Harpalus solitarius</i> . Although those species are included in the checklist here, they are not counted as newly reported state records in deference to the authors.
o	University of Wisconsin, Oshkosh, insect collection, Oshkosh, WI; det P.W. Messer.
p	Purrington et al. (2000). Recent state records for Wisconsin and adjacent states.
q	Purrington et al. (1998). Records from Monroe Co., WI.
r	Insect Research Collection, University of Wisconsin, Madison, WI; det confirmed by P. W. Messer.
s	Bousquet (1996). Taxonomic revision of Nearctic, Mexican, and West Indian <i>Oodini</i> .
t	Bousquet and Webster (2004). Review of the Nearctic species of the Holarctic subgenus <i>Argutor</i> .
u	Maddison (2008). Systematics of the North American beetle subgenus <i>Pseudoperyphus</i> .
v	Rauterberg (1885). The reasons for not accepting this as a reliable source are given in the discussion.
w	Wickham (1895). List of Coleoptera from the southern shore of Lake Superior. This species list from Bayfield County, WI is considered reliable except for two species cited in the discussion.
x	Wisconsin specimen donated to author from among J. Gruber, B. Buchli, M. Brust, G. Drecktrah, W. Krinsky, B. Werling, K. Johnson, J. Dorshorst, W. Suter, K. Katovich, D. Dettwiler, H. Grimek, and D. McKinney.
y	Hieke (2000). Revision of certain groups and new species of the genus <i>Amara</i> Bonelli, 1810.
z	Hieke (2003). The group of <i>Amara</i> ( <i>Amara</i> ) <i>cupreolata</i> Putzeys, 1866.



Figure 1. Map of Wisconsin indicating county boundaries and county names as specified in specimen collection material.

For the purposes of this contribution, rarity, denoted by symbol  $\mathbb{R}$ , is attached to a species for which I am aware of no more than six Wisconsin collection events since 1960. More than six counties listed indicates that some collection events occurred before 1960. By this definition, rare species account for 260 of 489 Wisconsin carabid species, or 53%. Conversely, 14 newly reported species were found to be relatively common. Literature records are cited for species from which a Wisconsin specimen was not observed during my study. Several species previously reported from Wisconsin are omitted from the checklist for reasons cited in the discussion. The 19 shaded species names are special cases. They were included as part of the Wisconsin carabid fauna (Bousquet and Larochelle 1993), but I am unaware of either a reliable literature record or a confirmed specimen. The sources for these associations are thought to be obscure publications and/or museum specimen labels that were privately recorded over several years by coauthor Larochelle (Bousquet, pers. com. 2007). It is uncertain whether the identifications were always verified.

My hierarchical organization of taxa utilizes the following format, Subfamily – Tribe – Genus – Subgenus (matching species group) – species, based on a review of recent taxonomic literature and recommendations in authoritative sources (Bousquet and Larochelle 1993, Ball and Bousquet 2001, Lorenz 2005, Erwin 2007, Erwin and Pearson 2008). Annotations include clarifications and recent changes in nomenclature pertinent to the Wisconsin fauna. Species group names generally follow Lindroth (1961 – 1969) which is still very useful for species descriptions, natural histories, and illustrated taxonomic keys to most of the Wisconsin species. Natural histories of each species were also detailed by Larochelle and Larivière (2003).

**Wisconsin Carabidae**

Subfamily RHYSODINAE

Tribe RHYSODINI

*Omoglymmius* Ganglbauer, 1892subgenus *Boreoglymmius* Bell & Bell,  
1982*O. americanus* (Laporte, 1836)  $\mathbb{R}$  Green***Clinidium* Kirby, 1830***C. baldufi* Bell, 1970  $\mathbb{R}$  [x] Grant

Subfamily NEBRIINAE

Tribe NEBRIINI

*Nebria* Latreille, 1806subgenus *Boreonebria* Jeannel, 1937  
(= *brevicollis* group)*N. lacustris lacustris* Casey, 1913subgenus *Reductonebria* Shilenkov,  
1975 (= *gregaria* group)*N. pallipes* Say, 1823  $\mathbb{R}$ 

Tribe NOTIOPHILINI

*Notiophilus* Duméril, 1806*N. aeneus* (Herbst, 1806)*N. aquaticus*\* (Linnaeus, 1758)  $\mathbb{R}$   
Bayfield, Portage*N. semistriatus* Say, 1823  $\mathbb{R}$  [dx]  
Crawford, Florence, Green

Subfamily LORICERINAE

Tribe LORICERINI

*Loricera* Latreille, 1802*L. pilicornis pilicornis*\* (Fabricius, 1775)

Subfamily CICINDELINAE

Tribe CICINDELINI

*Tetracha* Hope, 1838 [replaces genus*Megacephala* Latreille, 1802 in  
western hemisphere by Naviaux  
(2007)]*T. virginica* (Linnaeus, 1767)  $\mathbb{R}$ LaCrosse, Monroe, Outagamie,  
Richland, Sauk [after Grimek (2009)]*Cicindela* Linnaeus, 1758subgenus *Cicindela s. str.* (= *sexguttata*  
group)*C. duodecimguttata* Dejean, 1825*C. formosa generosa* Dejean, 1831*C. hirticollis hirticollis* Say, 1817***C. hirticollis rhodensis* Calder, 1916**  
 $\mathbb{R}$  [aor] Ashland, Door, Manitowoc,  
Ozaukee, Sheboygan*C. limbalis* Klug, 1834*C. longilabris longilabris* Say, 1824*C. patruela patruela* Dejean, 1825[*C. patruela huberi* Johnson (1989)  
are dark green-brown-black  
variants occurring only in  
south-central Wisconsin]*C. purpurea* Olivier, 1790 [see  
discussion]*C. repanda repanda* Dejean, 1825*C. scutellaris lecontei* Haldeman, 1853*C. sexguttata* Fabricius, 1775*C. splendida* Hentz, 1830*C. tranquebarica tranquebarica* Herbst,  
1806subgenus *Cicindelidia* Rivalier, 1954  
(= *punctulata* group)*C. punctulata punctulata* Olivier, 1790  
*Ellipsoptera* Dokhtourov, 1883*E. lepida* (Dejean, 1831)*E. macra macra* (LeConte, 1857)  $\mathbb{R}$ Columbia, Dane, Eau Claire  
(uncertain), Jackson, Juneau, La  
Crosse, Milwaukee, Monroe, Pierce,  
Richland, St. Croix, Wood [counties  
in part after Brust (2003)]

Subfamily CARABINAE

Tribe CARABINI

*Calosoma* Weber, 1801subgenus *Castrida* Motschulsky, 1866  
(= *sayi* group)*C. sayi* Dejean, 1826  $\mathbb{R}$ subgenus *Calosoma s. str.* (*sycophanta*  
group)*C. frigidum* Kirby, 1837subgenus *Calosoma s. str.* (*scrutator*  
group)*C. scrutator* (Fabricius, 1775)*C. wilcoxi* LeConte, 1848  $\mathbb{R}$  La Crosse,  
Racine, Richland, Winnebagosubgenus *Chrysostigma* Kirby, 1837  
(= *calidum* group)*C. calidum* (Fabricius, 1775)subgenus *Callitropa* Motschulsky, 1866  
(= *externum* group)*C. externum* (Say, 1823)  $\mathbb{R}$  Columbia,  
Dane, La Crosse*Carabus* Linnaeus, 1758subgenus *Carabus s. str.* (= *granulatus*  
group)*C. goryi* Dejean, 1831subgenus *Archicarabus* Seidlitz, 1887  
(= *nemoralis* group)*C. nemoralis*\* O.F. Müller, 1764subgenus *Hemicarabus* Géhin, 1876  
(= *serratus* group)*C. serratus* Say, 1823subgenus *Homoeocarabus* Reitter, 1896  
(= *maeander* group)*C. maeander*\* Fischer von Waldheim,  
1820subgenus *Tachypus* Weber, 1801  
(= *auratus* group)*C. cancellatus*\* Illiger, 1798  $\mathbb{R}$  [see  
discussion]

subgenus *Tanaocarabus* Reitter, 1896

(= *sylvosus* group)

*C. sylvosus* Say, 1823

Tribe CYCHRINI

*Sphaeroderus* Dejean, 1826

*S. stenotomus lecontei* Dejean, 1826

*S. nitidicollis brevoorti* LeConte, 1848

℞ [w] Bayfield

*Scaphinotus* Dejean, 1826

subgenus *Nomaretus* LeConte, 1853

(= *bilobus* group)

*S. bilobus* (Say, 1823) ℞ Crawford,  
Dane, Grant, Jackson, Portage, Vilas

Subfamily ELAPHRINAE

Tribe ELAPHRINI

*Blethisa* Bonelli, 1810

***B. hudsonica* Casey, 1924** ℞ [aemx]

Adams, Ozaukee, Washington,  
Waukesha [see discussion]

*B. quadricollis* Haldeman, 1847 ℞

Dodge, Milwaukee

*Elaphrus* Fabricius, 1775

subgenus *Neoelaphrus* Hatch, 1951

(= *clairvillei* group)

*E. clairvillei* Kirby, 1837 ℞ Dane,  
Grant, Outagamie, Ozaukee, Taylor,  
Washington, Waupaca

*E. fuliginosus* Say, 1830 ℞ Bayfield,  
Ozaukee

*E. olivaceus* LeConte, 1863 ℞ Dane,  
Dodge, Sauk, Vilas, Washington,  
Waukesha, Winnebago

subgenus *Elaphrus s. str.* (= *americanus*  
group)

*E. americanus americanus* Dejean,  
1831 ℞ ["Wisconsin" (Goulet 1983:  
p372)]

*E. californicus* Mannerheim, 1843

*E. ruscarius* Say, 1830

Subfamily OMOPHRONINAE

Tribe OMOPHRONINI

*Omophron* Latreille, 1802

*O. americanum* Dejean, 1831

***O. grossum* Casey, 1909** ℞ [gx]

La Crosse, Trempealeau

*O. robustum* G.H. Horn, 1870

*O. tessellatum* Say, 1823

Subfamily BRACHININAE

Tribe BRACHININI

*Brachinus* Weber, 1801

subgenus *Neobrachinus* Erwin, 1970

(= *fumans* group)

***B. adustipennis* Erwin, 1969** ℞ [a]  
Grant

*B. americanus* (LeConte, 1844) ℞

Dane, Grant, Green, Iowa, La Crosse

*B. cordicollis* Dejean, 1826 ℞ Dane,  
Green, Iron, Winnebago

*B. cyanipennis* Say, 1823

*B. cyanochroaticus* Erwin, 1969

***B. fulminatus* Erwin, 1969** ℞ [e]  
Waukesha

*B. fumans* (Fabricius, 1781) ℞ Bayfield,  
Dane, Dodge, Green, La Crosse,

Milwaukee, Sauk, Trempealeau

*B. janthinipennis* (Dejean, 1831)

***B. kavanaughi* Erwin, 1969** ℞ [a]  
Grant

*B. medius* T.W. Harris, 1828 ℞

Adams, Bayfield, Dane, Dodge,  
La Crosse, Wood

*B. ovipennis* LeConte, 1862 ℞ Dane,  
Milwaukee, Winnebago

***B. patruelis* LeConte, 1844** ℞ [a]  
Grant, Vilas

*B. quadripennis* Dejean, 1825 ℞ Dane

*B. tenuicollis* LeConte, 1844

*B. texanus* Chaudoir, 1868 ℞ Iron  
(Erwin 1970: p63)

Subfamily SCARITINAE

Tribe SCARITINI

*Pasimachus* Bonelli, 1813

subgenus *Pasimachus s. str.*

(= *depressus* group)

*P. depressus* (Fabricius, 1787) ℞  
Dodge, Monroe

*P. elongatus* LeConte, 1846

*Scarites* Fabricius, 1775

subgenus *Scarites s. str.*

(= *subterraneus* group)

*S. quadriceps* Chaudoir, 1843

*S. subterraneus* Fabricius, 1775 ℞  
Bayfield, Dane

Tribe CLIVININI

*Dyschirius* Bonelli, 1810 [genus

*Dyschiriodes* by Fedorenko (1996) is not  
adopted here]

subgenus *Paradyschirius* Fedorenko,

1996 (= *analis* group)

*D. affinis* Fall, 1901 ℞

***D. haemorrhoidalis* (Dejean, 1831)**

[ab] Dane, Jefferson, Ozaukee

***D. terminatus* LeConte, 1848** ℞ [r]  
Wood

subgenus *Dyschiriodes* Jeannel, 1941  
(*filiformis* group)

***D. aratus* (LeConte, 1852)** ℞ [r]  
Monroe

*D. montanus* LeConte, 1879 ℞ Dane,  
Monroe, Milwaukee

- D. pumilus* (Dejean, 1825) R [r]**  
Monroe
- D. sextoni* Bousquet, 1987 R [qrx]**  
Monroe, Sheboygan  
subgenus *Dyschiriodes* (politus group)
- D. erythrocerus* LeConte, 1857 [aber]** Dane, Dodge, Ozaukee, Vernon, Wood
- D. politus*<sup>+</sup> (Dejean, 1825) R [ax]**  
Milwaukee, Monroe
- D. sphaericollis* (Say, 1823)
- D. truncatus* LeConte, 1857 R  
subgenus *Dyschiriodes* (pilosus group)
- D. pilosus* LeConte, 1857 R Green
- D. setosus* LeConte, 1857 R Dodge, Jackson, Kenosha
- D. aeneolus* LeConte, 1850 R [rw]  
Bayfield  
subgenus *Dyschiriodes* (integer group)
- D. globulosus* (Say, 1823)  
[morphologically inseparable (Bousquet 1988) from *D. longulus* LeConte, 1850]
- D. dejeanii* Putzeys, 1846 [replaces *D. integer* LeConte, 1852 by Bousquet (2007)]
- Clivina* Latreille, 1802  
subgenus *Semiclivina* Kult, 1947  
(= dentipes group)
- C. dentipes* Dejean, 1825 R [brx]**  
Dane, Grant, Richland  
subgenus *Clivina* s. str. (= fossor group)
- C. fossor*<sup>\*</sup> (Linnaeus, 1758)
- C. impressifrons* LeConte, 1844  
subgenus *Leucocara* Bousquet, 2009 [Bousquet (2009)] (= americana group)
- C. americana* Dejean, 1831 R Dane, Grant, Ozaukee, Sauk  
subgenus *Paraclivina* Kult, 1947  
(= bipustulata group)
- C. bipustulata* (Fabricius, 1801)
- C. ferrea* LeConte, 1857 R [r]**  
Vernon
- C. postica* LeConte, 1848 R [r]** Dane
- Schizogenius* Putzeys, 1846  
subgenus *Schizogenius* s. str.  
(= lineolatus group)
- S. ferrugineus* Putzeys, 1846 R Sauk
- S. lineolatus* (Say, 1823) R  
"Wisconsin", Milwaukee (Whitehead 1972: p251)
- S. sulcifrons* Putzeys, 1846 R  
"Wisconsin" (Whitehead 1972: p267)
- Semiardistomis* Kult, 1950**  
*S. viridis* (Say, 1823) R [lx] Grant
- Subfamily TRECHINAE
- Tribe BROSCINI
- Miscodera* Eschscholtz, 1830  
*M. arctica*<sup>+</sup> (Paykull, 1798) R Bayfield
- Tribe TRECHINI
- Blemus* Dejean, 1821**  
***B. discus*<sup>\*</sup> (Fabricius, 1792) [abr]**  
Adams, Columbia, Dane, Forest, Iowa, Ozaukee, Poratge
- Trechus* Clairville, 1806  
subgenus *Trechus* s. str.  
(= quadristriatus group)
- T. apicalis*<sup>\*</sup> Motschulsky, 1845
- T. crassiscapus* Lindroth, 1955 R [x]** Douglas, Price
- T. quadristriatus*<sup>\*</sup> (Schrank, 1781) R Door
- Tribe BEMBIDIINI
- Bembidion* Latreille, 1802  
subgenus *Bracteon* Bedel, 1879  
(= inaequale group)
- B. carinula* Chaudoir, 1868
- B. inaequale* Say, 1823 R Dane, Dodge, Douglas, Milwaukee, Outagamie, Winnebago
- B. levettei* Casey, 1918 R Ashland, Bayfield, Dane, Door, Monroe, Oneida, Wood
- subgenus *Odontium* LeConte, 1848  
(= coxendix group)
- B. aenulum* Hayward, 1901 R  
"Wisconsin" (Lindroth 1963: p246)
- B. confusum* Hayward, 1897
- B. coxendix* Say, 1823 R Brown
- B. robusticolle* Hayward, 1897 R Sauk  
subgenus *Pseudoperyphus* Hatch, 1950  
(= chalceum group)
- B. chalceum* Dejean, 1831
- B. antiquum* Dejean, 1831 R [mu]  
"Wisconsin" [2 specimens "Wisconsin before 1897" in Milwaukee Public Museum; Maddison 2008: Fig. 21 shows a mapped dot in northern Wisconsin that covers portions of Iron Co. and Ashland Co.]
- B. honestum* Say, 1823 R "Wisconsin", n.d. (presumably 19<sup>th</sup> century)
- B. integrum* Casey, 1918 R [u] Pepin [Maddison, pers. com. 2007; reported only as a dot on a Wisconsin map (Maddison 2008: Fig. 24)]
- subgenus *Ochthedromus* LeConte, 1848  
(= americanum group)
- B. americanum* Dejean, 1831
- B. cheyennense* Casey, 1918 R [lmrx]** Dane, Douglas, Grant, Milwaukee, Sauk [see discussion]



- subgenus *Eurytrachelus* Motschulsky, 1850 (= nitidum group)  
*B. nitidum* (Kirby, 1837)  
 subgenus *Hydrium* LeConte, 1848 (= levigatum group)  
*B. levigatum* Say, 1823 R Milwaukee  
 subgenus *Trechonepha* Casey, 1918 (= simplex group)  
**B. simplex** Hayward, 1897 R [a] Milwaukee  
 subgenus *Trichoplataphus* Netolitzky, 1914 (= planum group)  
*B. planum* (Haldeman, 1843) R Vernon  
 subgenus *Hirmoplataphus* Netolitzky, 1942 (= nigrum group)  
*B. concolor* (Kirby, 1837) R [w] Bayfield  
**B. nigrum** Say, 1823 R [mx] Sauk, "Wisconsin"  
**B. reticulata** LeConte, 1848 R [m] Milwaukee  
*B. salebratum* (LeConte, 1848) R Ashland, Dane, Fond du Lac, Milwaukee, "Wisconsin"  
 subgenus *Peryphanes* Jeannel, 1941 (= grapii group)  
**B. grapii** + Gyllenhal, 1827 R [r] Bayfield  
*B. lacunarium* (Zimmermann, 1869) R Grant, Milwaukee, Ozaukee,  
*B. stephensii* Crotch, 1866 R Door  
*B. texanum* Chaudoir, 1868  
 subgenus *Asioperiphus* Vysoky, 1986 (= bimaculatum group)  
*B. postremum* Say, 1830 R Vernon  
 subgenus *Peryphus* Dejean, 1821 (tetracolum group)  
*B. obscurellum*<sup>†</sup> (Motschulsky, 1845)  
*B. petrosum petrosum*<sup>†</sup> Gebler, 1833 R  
*B. rupicola* (Kirby, 1837)  
*B. tetracolum*<sup>†</sup> Say, 1823  
 subgenus *Peryphus* (transversale group)  
*B. transversale* Dejean, 1831 R "Wisconsin"  
 subgenus *Ocydromus* Clairville, 1806 (= scopulinum group)  
*B. scopulinum*<sup>†</sup> (Kirby, 1837) R Bayfield, Brown, Door, Kenosha, Kewaunee, Milwaukee  
 subgenus *Eupettedromus* Netolitzky, 1911 (= incrematum group)  
*B. graciliforme* Hayward, 1897  
**B. incrematum** LeConte, 1860 R [r] Bayfield  
*B. variegatum* Say, 1823 [moved from subgenus *Notaphus* by Bousquet (2006)] R Grant, Iowa  
 subgenus *Notaphus* Dejean, 1821 (dorsale group)  
*B. aeneicollis* (LeConte, 1848) R  
*B. castor* Lindroth, 1963  
**B. coloradense** Hayward, 1897 R [r] Wood  
*B. cordatum* (LeConte, 1848) R Manitowoc, Milwaukee, Ozaukee, "Wisconsin"  
*B. graphicum* Casey, 1918 R Bayfield (Casey 1918: p108)  
**B. intermedium** (Kirby, 1837) R [elmx] Dodge, Fond du Lac, Milwaukee, Washington  
**B. nigripes**<sup>†</sup> (Kirby, 1837) R [r] Florence  
*B. patrulea* Dejean, 1831  
*B. rapidum* (LeConte, 1848)  
*B. versutum* LeConte, 1878 R Bayfield, Vernon, Walworth  
 subgenus *Notaphus* (contractum group)  
*B. viridicollis* (LaFerté-Sénéctère, 1841) R  
 subgenus *Notaphus* (oberthueri group)  
*B. oberthueri* Hayward, 1901 R Walworth  
 subgenus *Furcacampa* Netolitzky, 1931 (affine group)  
*B. affine* Say, 1823  
 subgenus *Furcacampa* (versicolor group)  
*B. impotens* Casey, 1918  
*B. minus* Hayward, 1897  
*B. versicolor* (LeConte, 1848)  
 subgenus *Bembidion* s. str. (= quadrimaculatum group)  
*B. mutatum* Gemminger and Harold, 1868 R Oneida  
*B. pedicellatum* LeConte, 1857 R Ozaukee, Walworth  
*B. quadrimaculatum oppositum* Say, 1823  
 subgenus *Semicampa* Netolitzky, 1910 (= muscicola group)  
*B. muscicola* Hayward, 1897  
**B. praticola** Lindroth, 1963 R [lx] Green, Racine  
**B. nigrivestis** Bousquet, 2006 R [mr][p]: reported as "*B. praticola*" Juneau, Washington  
 subgenus *Diplocampa* Bedel, 1896 (= transparens group)  
*B. transparens*<sup>†</sup> (Gebler, 1829)  
 subgenus *Trepanedoris* Netolitzky, 1918 (= anguliferum group)  
*B. concretum* Casey, 1918  
**B. fortistriatum** (Motschulsky, 1845) R [a] Ashland

- B. frontale* (LeConte, 1848)  
***B. pseudocautum* Lindroth, 1963** [r] Jackson, Wood  
 subgenus *Amerizus* Chaudoir, 1868  
 (= *oblongulum* group)  
*B. wingatei* Bland, 1864 [r] Richland,  
 "Wisconsin"
- Mioptachys* Bates, 1882  
*M. flavicauda* (Say, 1823)
- Tachyta* Kirby, 1837  
 subgenus *Tachyta s. str.* (*falli* group)  
*T. angulata* Casey, 1918  
 subgenus *Tachyta s. str.* (*nana* group)  
*T. nana inornata* (Say, 1823)  
*T. nana kirbyi* Casey, 1918 [r] Bayfield  
 (Erwin 1975: p65)  
*T. parvicornis* Notman, 1922 [r]  
 "Wisconsin" (Erwin 1975: p66)
- Elaphropus* Motschulsky, 1839  
 subgenus *Tachyura* Motschulsky, 1862  
*E. anceps* (LeConte, 1848)  
*E. dolosus* (LeConte, 1848) [r] Iowa  
*E. granarius* (Dejean, 1831) [r] Dane,  
 Kenosha, Ozaukee, Waukesha  
*E. incurvus* (Say, 1830)  
*E. saturatus* (Casey, 1918) [r] Grant,  
 Ozaukee, Waukesha  
*E. vivax* (LeConte, 1848) [r]  
*E. xanthopus* (Dejean, 1831) [r] [a]  
 Sheboygan
- Porotachys* Netolitzky, 1914  
***P. bisulcatus*\* (Nicolai, 1822)** [r]  
 [abx] Dane, Ozaukee
- Polyderis* Motschulsky, 1862  
***P. laevis* (Say, 1823)** [r] [rx]  
 Crawford, Iowa, Sauk
- Paratachys* Casey, 1918  
***P. proximus* (Say, 1823)** [abl] Dane,  
 Grant, Milwaukee, Ozaukee  
***P. pumilus* (Dejean, 1831)** [r] [x]  
 Green  
***P. scitulus* (LeConte, 1848)** [r] [a]  
 Ozaukee
- Tribe PSYDRINI  
*Nomius* Laporte, 1835  
*N. pygmaeus* (Dejean, 1831) [r] Bayfield,  
 Dodge, Juneau, Waupaca, Wood
- Tribe PATROBINI  
*Patrobus* Dejean, 1821  
 subgenus *Neopatrobis* Darlington,  
 1938 (= *longicornis* group)  
*P. longicornis* (Say, 1823)
- Subfamily HARPALINAE
- Tribe LOXANDRINI  
***Loxandrus* LeConte, 1852**  
***L. velocipes* Casey, 1918** [r] [alr]  
 Crawford, Grant, Richland
- Tribe PTEROSTICHINI  
*Poecilus* Bonelli, 1810  
 subgenus *Poecilus s. str.* (= *lucublandus*  
 group)  
*P. chalcites* (Say, 1823)  
*P. lucublandus lucublandus* (Say, 1823)  
*Lophoglossus* LeConte, 1852  
*L. scrutator* (LeConte, 1848)
- Gastrellarius* Casey, 1918**  
***G. honestus* (Say, 1823)** [r] [x]  
 Washington
- Myas* Dejean, 1828  
 subgenus *Neomyas* Allen, 1980  
*M. cyanescens* Dejean, 1828
- Pterostichus* Bonelli, 1810  
 subgenus *Argutor* Dejean, 1821  
 (= *commutabilis* group)  
*P. commutabilis* (Motschulsky, 1866)  
*P. praetermissus* (Chaudoir, 1868)  
 [resurrected by Bousquet and  
 Webster (2004)] [r] [bit] Buffalo,  
 Grant, Jefferson  
 subgenus *Phonias* Gozis, 1886  
 (= *patruelis* group)  
***P. corrusculus* LeConte, 1873** [r] [x]  
 Price  
*P. femoralis* (Kirby, 1837)  
*P. patruelis* (Dejean, 1831)  
 subgenus *Bothriopterus* Chaudoir, 1838  
 (= *adstrictus* group)  
*P. adstrictus*+ Eschscholtz, 1823 [r]  
 Bayfield, Door, Milwaukee  
*P. mutus* (Say, 1823)  
*P. pennsylvanicus* LeConte, 1873  
***P. trinaris* (Casey, 1918)** [r] [I]  
 Grant  
 subgenus *Melanius* Bonelli, 1810  
 (= *corvinus* group)  
*P. castor* Goulet & Bousquet, 1983 [r]  
 Vilas  
*P. corvinus* (Dejean, 1828)  
*P. ebeninus* (Dejean, 1828) [r]  
 subgenus *Pseudomaseus* Chaudoir,  
 1838 (= *luctuosus* group)  
***P. luctuosus* (Dejean, 1828)**  
 [ablmor] Ashland, Bayfield,  
 Columbia, Dane, Dodge, Douglas,  
 Grant, Milwaukee, Oneida, Ozaukee,  
 Sauk, Washington, Waukesha,  
 Winnebago  
*P. tenuis* (Casey, 1924)  
 subgenus *Morphnosoma* Lutshnik,  
 1915 (*melanarius* group in part)  
*P. melanarius*\* (Illiger, 1798)  
 subgenus *Euferonia* Casey, 1918  
 (*melanarius* group in part)  
*P. coracinus* (Newman, 1838)  
*P. novus* Straneo, 1944



- P. stygicus* (Say, 1823)  
subgenus *Abacidus* LeConte, 1863  
 (= fallax group)
- P. atratus* (Newman, 1838) R [j]**  
 Dane
- P. permundus* (Say, 1830)  
subgenus *Lamenius* Bousquet, 1999  
 (= caudicalis group)
- P. caudicalis* (Say, 1823)  
subgenus *Hypherpes* Chaudoir, 1838  
 (= amethystinus group)
- P. adoxus* (Say, 1823) R
- P. tristis* (Dejean, 1828)
- Cyclotrachelus* Chaudoir, 1838**  
subgenus *Evarthus* LeConte, 1852  
 (= sigillatus group)
- C. alternans* (Casey, 1920) R  
 "Wisconsin", Bayfield (Freitag  
 1969: p154) [see discussion]
- C. seximpressus* (LeConte, 1848)
- C. sodalis sodalis* (LeConte, 1848)
- Tribe ZABRINI
- Pseudamara* Lindroth, 1968
- P. arenaria* (LeConte, 1848) R  
 Florence, Forest
- Amara* Bonelli, 1810  
subgenus *Curtonotus* Stephens, 1828  
 (= aulica group)
- A. carinata* (LeConte, 1848) [Imorwx]
- A. lacustris* LeConte, 1855 R [w]  
 Bayfield
- A. pennsylvanica* Hayward, 1908 R**  
 [Imr] Dodge, Fond du Lac,  
 Milwaukee, Waukesha  
subgenus *Bradytus* Stephens, 1828  
 (= apricaria group)
- A. apricaria*\* (Paykull, 1790)**  
 [ablmorx] Adams, Bayfield, Brown,  
 Dane, La Fayette, Manitowoc,  
 Milwaukee, Ozaukee, Portage,  
 Washington, Waukesha, Winnebago,  
 Wood
- A. avida* (Say, 1823)
- A. exarata* Dejean, 1828 R Adams,  
 Portage, Sauk
- A. latior* (Kirby, 1837)
- A. schwarzi* Hayward, 1908 R [w]  
 Bayfield  
subgenus *Percosia* Zimmermann, 1832  
 (= obesa group)
- A. obesa* (Say, 1823)
- subgenus *Amara* s. str. (quenseli,  
*aurata*, *lunicollis* groups)
- A. aenea*\* (DeGeer, 1774)
- A. chalcea* Dejean, 1828 [with  
 subgenus *Xenocelia* in Hieke (2001)]  
 R Marquette
- A. coelebs* Hayward, 1908 R Adams,  
 Ashland, Bayfield, Columbia,  
 Douglas, Kenosha, Ozaukee
- A. convexa* LeConte, 1848
- A. cupreolata* Putzeys, 1866 R  
 Ozaukee, Waushara
- A. neoscotica* Casey, 1924 [resurrected  
 by Hieke (2003)] [agorz]
- A. tenax* Casey, 1918 [resurrected by  
 Hieke (2003)] R [axz] Adams,  
 Columbia, Juneau, Monroe, Portage,  
 Sauk
- A. erratica*\* (Duftschmid, 1812) [with  
 subgenus *Celia* C.Zimmermann,  
 1882 in Hieke (1995)] R Bayfield,  
 Douglas, Forest
- A. familiaris*\* (Duftschmid, 1812)  
 [anor]
- A. impuncticollis* (Say, 1823)
- A. otiosa* Casey, 1918 [resurrected by  
 Hieke (2000)] [rxy]
- A. laevipennis* Kirby, 1837** [with  
 subgenus *Celia* C.Zimmermann,  
 1882 in Hieke (1995)] R [r]  
 Sheboygan
- A. littoralis* Mannerheim, 1843
- A. turbata* Casey, 1918 [resurrected by  
 Hieke (2000)] [alry]
- A. lunicollis*\* Schiodte, 1837 [nprx]
- A. musculus* (Say, 1823) [with subgenus  
*Celia* C.Zimmermann, 1882 in Hieke  
 (1995)]
- A. ovata*\* (Fabricius, 1792) R [arx]**  
 Columbia, Dane, Milwaukee
- A. patruelis*\* Dejean, 1831 [with  
 subgenus *Celia* C.Zimmermann,  
 1882 in Hieke (1995)] R Brown,  
 Dane, Dodge, Milwaukee
- A. quenseli*\* (Schönherr, 1806) [with  
 subgenus *Paracelia* Bedel, 1899 in  
 Hieke (1995)]
- A. rubrica* Haldeman, 1843 [with  
 subgenus *Celia* C.Zimmermann,  
 1882 in Hieke (1995)]
- A. sinuosa* (Casey, 1918)** [with  
 subgenus *Celia* C.Zimmermann, 1882  
 in Hieke (1995)] R [cr] "Wisconsin"  
subgenus *Zezea* Csiki, 1929 (= pallipes  
 group)
- A. angustata* (Say, 1823) R Dane, La  
 Fayette, Milwaukee, Ozaukee
- A. flebilis* (Casey, 1918) [resurrected by  
 Hieke (2000)] R [elxy] Fond du Lac,  
 Kewaunee, Ozaukee, Milwaukee
- A. angustatoides* Hieke, 2000 (Hieke  
 2000) [agorxy]
- A. pallipes* Kirby, 1837 R

## Tribe OODINI

*Oodes* Bonelli, 1810

*O. amaroides* Dejean, 1831  $\mathbb{R}$  Barron, Jefferson, Juneau, Washburn

*O. fluvialis* LeConte, 1863 [replaces *O. americanus fluvialis* sensu Lindroth (1969) by Bousquet (1996)]  $\mathbb{R}$  Columbia, Grant, La Crosse, Sauk, Winnebago, Wood

*Lachnocrepis* LeConte, 1853

*L. parallela* (Say, 1830)  $\mathbb{R}$  Ashland, Dane, Fond du Lac, Grant, Milwaukee, Ozaukee, Sauk

*Stenocrepis* Chaudoir, 1857

subgenus *Stenous* Chaudoir, 1857 (duodecimstriata group)

*S. mexicana* (Chevrolat, 1835) [replaces *S. quatuordecimstriata* (Chaudoir, 1843) by Bousquet (1996)]  $\mathbb{R}$  [ms] Dodge (Bousquet, pers. com. 2007) subgenus *Stenous* (cuprea group)

*S. cuprea* (Chaudoir, 1843)  $\mathbb{R}$  Milwaukee

## Tribe PANAGAEINI

*Panagaesus* Latreille, 1804

subgenus *Hologaeus* Ogueta, 1966

*P. fasciatus* Say, 1823  $\mathbb{R}$  [bmx] Dane

## Tribe CHLAENIINI

*Chlaenius* Bonelli, 1810

subgenus *Eurydactylus* LaFerté-Sénéctère, 1851 (= tomentosus group)

*C. tomentosus tomentosus* (Say, 1823) subgenus *Anomoglossus* Chaudoir, 1857 (= emarginatus group)

*C. emarginatus* Say, 1823

*C. pusillus* Say, 1823  $\mathbb{R}$  [px] Columbia, Iowa, Walworth

subgenus *Chlaenius* s. str. (= sericeus group)

*C. aestivus* Say, 1823  $\mathbb{R}$  "Wisconsin" (Bell 1960: p120)

*C. cordicollis* Kirby, 1837

*C. erythropus* Germar, 1824  $\mathbb{R}$  Dane, Door, La Crosse

*C. platyderus* Chaudoir, 1856

*C. prasinus* Dejean, 1826  $\mathbb{R}$  "Wisconsin" (Bell 1960: p111)

*C. sericeus sericeus* (Forster, 1771)

*C. solitarius* Say, 1823  $\mathbb{R}$  [aglr] Grant, La Crosse, Richland, Trempealeau

subgenus *Agostenus* Motschulsky, 1850 (niger group)

*C. niger* Randall, 1838

subgenus *Agostenus* (purpuricollis group)

*C. purpuricollis purpuricollis*

Randall, 1838  $\mathbb{R}$  [a] Ozaukee

subgenus *Agostenus* (lithophilus group)

*C. lithophilus lithophilus* Say, 1823  $\mathbb{R}$  Brown, Dodge, Grant, Milwaukee, Ozaukee

subgenus *Chlaeniellus* Reitter, 1908 (= nemoralis group)

*C. brevilabris brevilabris* LeConte, 1848  $\mathbb{R}$  Grant

*C. impunctifrons* Say, 1823

*C. nemoralis* Say, 1823

*C. pennsylvanicus pennsylvanicus* Say, 1823

*C. tricolor tricolor* Dejean, 1826

## Tribe LICINIINI

*Diplocheila* Brullé, 1834

subgenus *Isorembus* Jeannel, 1949

(impressicollis, striatopunctata groups)

*D. assimilis* (LeConte, 1844)

*D. impressicollis* (Dejean, 1831)

*D. major major* (LeConte, 1848)  $\mathbb{R}$  Dane, Dodge, Milwaukee

*D. obtusa* (LeConte, 1848)

*D. striatopunctata* (LeConte, 1844)

*D. undulata* Carr, 1920  $\mathbb{R}$  [fm] Dane, Kenosha, Waukesha

*Dicaelus* Bonelli, 1813

subgenus *Paradicaelus* Ball, 1959 (= furvus group)

*D. elongatus* Bonelli, 1813

*D. politus* Dejean, 1826  $\mathbb{R}$  Milwaukee

*D. sculptilis upioides* Ball, 1959  $\mathbb{R}$  Burnett, Dane, Grant, La Crosse, Trempealeau

subgenus *Dicaelus* s. str. (= purpuratus group)

*D. purpuratus purpuratus* Bonelli, 1813  $\mathbb{R}$  Grant

*Badister* Clairville, 1806

subgenus *Badister* s. str. (= pulchellus group)

*B. flavipes laticeps* Blatchley, 1910  $\mathbb{R}$  [pr] Green

*B. neopulchellus* Lindroth, 1954 [see discussion]

*B. notatus* Haldeman, 1843

*B. obtusus* LeConte, 1878  $\mathbb{R}$  [rx] Adams, Columbia, Walworth

subgenus *Baudia* Ragusa, 1884 (= reflexus group)

*B. grandiceps* Casey, 1920

*B. ocularis* Casey, 1920  $\mathbb{R}$  [r] Richland, Shawano

*B. parviceps* Ball, 1959  $\mathbb{R}$  Ozaukee, Sauk

*B. reflexus* LeConte, 1880  $\mathbb{R}$  [x] Dane

- subgenus *Trimorphus* Stephens, 1828  
(= *transversus* group)  
*B. transversus* Casey, 1920
- Tribe HARPALINI
- Notiobia* Perty, 1830  
subgenus *Anisotarsus* Chaudoir, 1837  
(= *terminata* group)  
*N. nitidipennis* (LeConte, 1848) R  
Jackson, Portage, Shawano, Waupaca  
*N. sayi* (Blatchley, 1910)  
*N. terminata* (Say, 1823)  
*Xestonotus* LeConte, 1853  
*X. lugubris* (Dejean, 1829)  
*Anisodactylus* Dejean, 1829  
subgenus *Anisodactylus s. str.*  
(= *binotatus* group)  
*A. agricola* (Say, 1823) R Grant, Green  
*A. carbonarius* (Say, 1823) R [adir]  
Dane, Columbia, Grant, Milwaukee,  
Ozaukee  
*A. harrisii* LeConte, 1863  
*A. kirbyi* Lindroth, 1953  
*A. melanopus* (Haldeman, 1843) R  
Vernon (Noonan 1996: p116)  
*A. nigerrimus* (Dejean, 1831) R  
Adams, Walworth  
*A. nigrata* Dejean, 1829  
subgenus *Gynandrotarsus* LaFerté-  
Sénéctère, 1841 (= *rusticus* group)  
*A. merula* (Germar, 1824)  
*A. ovularis* (Casey, 1914) R [alr]  
Dane, Green, Iowa, Milwaukee,  
Ozaukee, Vernon  
*A. rusticus* (Say, 1823)  
subgenus *Anadaptus* Casey, 1914  
(= *discoideus* group)  
*A. discoideus* Dejean, 1831  
*A. sanctaerucis* (Fabricius, 1798)  
subgenus *Spongopus* LeConte, 1848  
(= *verticalis* group)  
*A. verticalis* (LeConte, 1848)  
subgenus *Pseudaplocentrus* Noonan,  
1973 (*laetus* group, *caenus* group in  
part)  
*A. laetus* Dejean, 1829 R [x] Dane,  
Jackson
- Geopinus* LeConte, 1848  
*G. incrassatus* (Dejean, 1829)
- Amphasia* Newman, 1838  
subgenus *Pseudamphasia* Casey, 1914  
(= *sericea* group)  
*A. sericea* (T.W. Harris, 1828)  
subgenus *Amphasia s. str.*  
(= *interstitialis* group)  
*A. interstitialis* (Say, 1823)  
*Stenolophus* Dejean, 1821  
subgenus *Stenolophus s. str.*  
(= *fuliginosus* group)
- S. carbo* Bousquet, 1993 R [al]  
Milwaukee, Ozaukee
- S. dissimilis* Dejean, 1829 R [a]  
Ozaukee
- S. fuliginosus* Dejean, 1829 R  
Bayfield, Brown, Douglas, Milwaukee,  
Ozaukee, Winnebago
- S. ochropezus* (Say, 1823)  
subgenus *Agonoderus* Dejean, 1829  
(= *comma* group)  
*S. comma* (Fabricius, 1775)  
*S. lecontei* (Chaudoir, 1868)  
*S. lineola* (Fabricius, 1775)  
subgenus *Agonoleptus* Casey, 1914  
(= *conjunctus* group)  
*S. conjunctus* (Say, 1823)
- S. rotundicollis* (Haldeman, 1843)  
[alrx] La Fayette, Milwaukee,  
Monroe, Ozaukee, Sauk, Vernon,  
Washington
- Bradycellus* Erichson, 1837  
subgenus *Catharellus* Casey, 1914  
(= *lecontei* group)  
*B. lecontei* Csiki, 1932  
subgenus *Stenocellus* Casey, 1914  
(= *rupestris* group)  
*B. congener* (LeConte, 1848)  
*B. neglectus* (LeConte, 1848) R  
*B. nigriceps* LeConte, 1868  
*B. rupestris* (Say, 1823)  
subgenus *Lipalocellus* Ball & Bousquet,  
2001 (= *nigrinus* group)  
*B. nigrinus* (Dejean, 1829) R Douglas,  
Marquette, Oneida
- B. semipubescentis* Lindroth, 1968 R  
[an] Bayfield, Forest, Iron  
subgenus *Triliarthrus* Casey, 1914  
(= *badipennis* group)  
*B. atrimedeus* (Say, 1823) R Green,  
Ozaukee
- B. badipennis* (Haldeman, 1843) R  
Green, La Crosse, Marathon, Sauk,  
Waukesha
- B. kirbyi* (G.H. Horn, 1883) R  
Milwaukee, Racine, Sauk
- B. lugubris* (LeConte, 1848) R Ashland,  
Bayfield, Burnett, Dane, Jackson,  
Vilas, Waupaca
- Amerinus* Casey, 1884  
*A. linearis* (LeConte, 1863) R  
"Wisconsin" (LeConte, 1863: p17)
- Dicheirotichus* Jacquelin du Val, 1857  
subgenus *Trichocellus* Ganglbauer,  
1892 (= *cognatus* group)  
*D. cognatus*\* (Gyllenhal, 1827) R  
[x] Winnebago
- Acupalpus* Latreille, 1829  
subgenus *Philodes* LeConte, 1861  
(= *rectangulus* group)

- A. *rectangulus* Chaudoir, 1868** [x] Racine  
 subgenus *Acupalpus s. str.*  
 (= *meridianus* group)
- A. *canadensis* Casey, 1924** [a] Iron
- A. carus* (LeConte, 1863) [R] Grant, Oneida, Ozaukee, Wood
- A. nanellus* Casey, 1914
- A. *pumilus* Lindroth, 1968** [afmr] Dane, Dodge, Grant, Juneau, Kenosha, Marquette, Milwaukee, Ozaukee, Racine, Richland, Sauk, Washington, Waukesha  
 subgenus *Tachistodes* Casey, 1914  
 (= *pauperculus* group)
- A. indistinctus* Dejean, 1831
- A. partiaris* (Say, 1823)
- A. pauperculus* Dejean, 1829
- A. testaceus* Dejean, 1829 [R] Dane, Milwaukee, Ozaukee
- Euryderus* LeConte, 1846
- E. grossus* (Say, 1830)
- Ophonus* Dejean, 1821  
 subgenus *Metophonus* Bedel, 1897
- O. puncticeps*\* Stephens, 1828 [apr]
- Harpalus* Latreille, 1802  
 subgenus *Pseudophonus* Motschulsky, 1844 (= *rufipes* group)
- H. *actiosus* Casey, 1914** [r] [R] Dane
- H. compar* LeConte, 1848 [hybrid *H. erythropus* x *compar* as suggested by Ball and Anderson (1962) is unconfirmed in Wisconsin]
- H. *erythropus* Dejean, 1829** [ablmr] Dane, Dodge, Iowa, Milwaukee, Ozaukee, Wood
- H. faunus* Say, 1823
- H. longicollis* LeConte, 1848
- H. paratus* Casey, 1924 [R] Fond du Lac
- H. pensylvanicus* (DeGeer, 1774)  
 subgenus *Harpalus s. str.* (*affinis* group)
- H. affinis*\* (Schränk, 1781)  
 subgenus *Euharpalops* Casey, 1924  
 (= *fraternus* group)
- H. fulvilabris* Mannerheim, 1853 [R] Oneida, Douglas
- H. indigenus* Casey, 1924 [lqrx] Adams, Burnett, Juneau, Marquette, Monroe, Portage, Wood
- H. laevipes*\* Zetterstedt, 1828 [R] Bayfield, Milwaukee, Portage
- H. laticeps* LeConte, 1850 [R] Bayfield, Oneida, Portage
- H. lewisii* LeConte, 1865 [R] Burnett, Door, Douglas, Jackson, Waushara, Wood
- H. providens* Casey, 1914
- H. reversus* Casey, 1924 [R] Milwaukee  
 subgenus *Harpalus s. str.* (*nigritarsis* group)
- H. *megacephalus* LeConte, 1848** [r] Bayfield
- H. nigritarsis*\* C.R. Sahlberg, 1827 [nominat morph in Wisconsin (Noonan, 1991)] [R] [hn] Forest  
 subgenus *Pharalus* Casey, 1914  
 (= *indianus* group)
- H. indianus* Csiki, 1932 [R] [mqrx] Burnett, Columbia, Crawford, Iowa, Monroe, Waupaca, Wood  
 subgenus *Megapangus* Casey, 1914  
 (= *caliginosus* group)
- H. caliginosus* (Fabricius, 1775)
- H. katieae* Battoni, 1985 [R] [apr] Sauk  
 subgenus *Plectralidus* Casey, 1914  
 (= *eraticus* group)
- H. eraticus* Say, 1823  
 subgenus *Harpalus s. str.* (*cautus* group)
- H. innocuus* LeConte, 1863 [R] [nw] Forest  
 subgenus *Harpalus s. str.* (*obnixus* group)
- H. *plenalis* Casey, 1914** [x] Adams, Kewaunee  
 subgenus *Harpalus s. str.* (*opacipennis* group)
- H. opacipennis* (Haldeman, 1843)  
 subgenus *Harpalus s. str.* (*herbivagus* group)
- H. herbivagus* Say, 1823
- H. solitarius*\* Dejean, 1829 [R] [nx] Forest
- H. somnulentus* Dejean, 1829 [two morphs (Noonan, 1991) in Wisconsin: common *H. pleuriticus* Kirby and rare darker *H. fallax* LeConte]  
 subgenus *Harpalobius* Reitter, 1900  
 (= *fuscipalpis* group)
- H. fuscipalpis*\* Sturm, 1818 [R] Dane, Milwaukee, Portage
- Hartonymus* Casey, 1914
- H. hoodi* Casey, 1914 [R] Dane, Iowa, Kenosha, Monroe, Sauk
- Selenophorus* Dejean, 1829  
 subgenus *Celiamorphus* Casey, 1914  
 (= *ellipticus* group)
- S. ellipticus* Dejean, 1829 [R] Richland, Marquette, Monroe  
 subgenus *Selenophorus s. str.*  
 (= *palliatius* group)
- S. gagatinus* Dejean, 1829 [R] [pr] Juneau
- S. *hylacis* (Say, 1823)** [R] [l] Milwaukee

- S. opalinus* (LeConte, 1863)  
***S. pedicularius* Dejean, 1829** [x]  
 Adams  
*S. planipennis* LeConte, 1848 [lqx]  
 Dane, Monroe, Juneau, Sauk,  
 Waupaca  
*Discoderus* LeConte, 1853  
*D. parallelus* (Haldeman, 1843) [La]  
 Fayette, Milwaukee, Ozaukee  
*Trichotichnus* Morawitz, 1863  
subgenus *Iridessus* Bates, 1883  
*T. autumnalis* (Say, 1823)  
subgenus *Trichotichnus s. str.*  
 (= *vulpeculus* group)  
*T. dichrous* (Dejean, 1829) [Dane,  
 Green  
*T. vulpeculus* (Say, 1823)  
*Cratacanthus* Dejean, 1829  
*C. dubius* (Palisot de Beauvois, 1811) [R]  
 Adams, Dane, Jefferson, Monroe  
**Tribe PENTAGONICINI**  
***Pentagonica* Schmidt-Goebel, 1846**  
***P. picticornis* Bates, 1883** [blrx]  
 Columbia, Dane, La Crosse,  
 Milwaukee, Walworth  
**Tribe PLATYNINI**  
*Calathus* Bonelli, 1810  
subgenus *Neocalathus* Ball & Nègre,  
1972 (= *gregarius* group)  
*C. gregarius* (Say, 1823)  
*C. ingratus* Dejean, 1828  
*C. opaculus* LeConte, 1854 [R]  
 Columbia, Sauk  
*Synuchus* Gyllenhal, 1810  
*S. impunctatus* (Say, 1823)  
*Olisthopus* Dejean, 1828  
*O. micans* LeConte, 1848 [R]  
*O. parmatius* (Say, 1823)  
*Sericoda* Kirby, 1837  
*S. obsoleta* (Say, 1823) [Ashland,  
 Bayfield, Dane, Dodge, Jackson,  
 Juneau, Kenosha, Polk, Portage,  
 Wood  
*S. quadripunctata*<sup>+</sup> (DeGeer, 1774) [R]  
 Bayfield, Dane, Dodge, Langlade,  
 Milwaukee  
*Atranus* LeConte, 1848  
***A. pubescens* (Dejean, 1828)** [x]  
 Grant, Sauk  
*Tetraleucus* Casey, 1920  
*T. picticornis* (Newman, 1844) [R]  
 Grant, Ozaukee  
*Rhadine* LeConte, 1848  
*R. caudata* (LeConte, 1863) [R]  
 "Wisconsin"  
*Oxypselaphus* Chaudoir, 1843  
*O. pusillus* (LeConte, 1854)  
*Agonum* Bonelli, 1810  
 [Agonum consists of four subgenera in  
 a world revision by Liebherr and  
 Schmidt (2004) of which their  
 subgenus *Agonothorax* was  
 subsequently replaced by subgenus  
*Olisares* in a correction by Liebherr  
 et al. (2005).]  
subgenus *Platynomicrus* Casey, 1920  
*A. nigriceps*<sup>+</sup> LeConte, 1848 [R Dodge,  
 Washington  
subgenus *Europhilus* Chaudoir, 1859  
 (= *sordens* group)  
*A. anchomenoides* Randall, 1838  
*A. canadense* Goulet, 1969  
*A. gratiosum* (Mannerheim, 1853)  
*A. lutulentum* (LeConte, 1854)  
*A. palustre* Goulet, 1969  
***A. picicornoides* Lindroth, 1966** [R]  
 [I] Milwaukee  
*A. retractum* LeConte, 1848  
*A. sordens* Kirby, 1837 [R Ozaukee,  
 Washington, Winnebago, Wood  
***A. superioris* Lindroth, 1966** [a]  
 Douglas  
*A. thoreyi*<sup>+</sup> Dejean, 1828  
subgenus *Agonum s. str.*  
*A. piceolum* (LeConte, 1879) [R]  
 Ashland  
*A. muelleri*<sup>+</sup> (Herbst, 1784)  
*A. placidum* (Say, 1823)  
subgenus *Olisares* Motschulsky, 1865  
 (= *cupripenne* group)  
*A. affine* Kirby, 1837 [R Bayfield,  
 Douglas, Iron, Marquette, Milwaukee  
*A. cupreum* Dejean, 1831  
*A. cupripenne* (Say, 1823)  
*A. excavatum* Dejean, 1828 [R Dane,  
 Dodge, Washington  
*A. fidele* Casey, 1920 [R [kpr] Eau  
 Claire, Jackson, Sauk, Taylor  
*A. harrisii* LeConte, 1848  
*A. melanarium* Dejean, 1828  
*A. metallescens* (LeConte, 1854) [R]  
 Bayfield, Marathon [additional  
 "Bayfield" (Casey 1920: p114)]  
*A. moerens* Dejean, 1828 [R Grant,  
 Richland, Trempealeau  
*A. octopunctatum* (Fabricius, 1798) [R]  
 Adams, Dane, Fond du Lac  
*A. propinquum* (Gemminger & Harold,  
 1868) [R Dane, Douglas, Milwaukee,  
 Shawano, Winnebago  
*A. tenue* (LeConte, 1854)  
*A. trigeminum* Lindroth, 1954  
subgenus *Olisares* (collare group)  
*A. collare* (Say, 1830) [R]



- A. mutatum* (Gemminger & Harold, 1868)  $\mathbb{R}$  Buffalo, Jackson  
 subgenus *Olisares* (*nutans* group)  
*A. aeruginosum* Dejean, 1828  
*A. basale* LeConte, 1848  $\mathbb{R}$   
*A. nutans* (Say, 1823)  $\mathbb{R}$  Brown, Dane, Iowa, Milwaukee, Ozaukee, Wood  
*A. striatopunctatum* Dejean, 1828  $\mathbb{R}$   
 subgenus *Olisares* (*punctiforme* group)  
*A. crenistriatum* (LeConte, 1863)  $\mathbb{R}$   
 Dane, Dodge, Grant, Iowa, Juneau, Manitowoc, Milwaukee, Wood  
*A. punctiforme* (Say, 1823)  $\mathbb{R}$   
***A. rufipes* Dejean, 1828  $\mathbb{R}$  [amr]**  
 Dane, Milwaukee  
 subgenus *Olisares* (*errans* group)  
*A. errans* (Say, 1823)  $\mathbb{R}$  Ashland, Dane, Milwaukee, Monroe, Oneida, Vernon  
*A. ferreum* Haldeman, 1843  $\mathbb{R}$   
 ["Wisconsin" (Downie and Arnett 1996: p201) but reliability is uncertain]  
 subgenus *Olisares* (*extensicolle* group)  
*A. decorum* (Say, 1823)  
*A. extensicolle* (Say, 1823)  
*Platynus* Bonelli, 1810  
 subgenus *Platynus s. str.* (= *decentis* group)  
*P. decentis* (Say, 1823)  
*P. opaculus* LeConte, 1863  $\mathbb{R}$   
 "Wisconsin"  
*P. tenuicollis* (LeConte, 1848)  
 subgenus *Batenus* Motschulsky, 1865  
 [elevated to genus by Morvan (2000)]  
 (= *hypolithos* group)  
***P. cincticollis* (Say, 1823) [ablmor]**  
 Dane, Manitowoc, Milwaukee, Ozaukee, Walworth, Waukesha  
*P. mannerheimii*<sup>+</sup> (Dejean, 1828)  $\mathbb{R}$   
 Bayfield, Jackson

#### Tribe PERIGONINI

##### *Perigona* Laporte, 1835

subgenus *Trechicus* LeConte, 1853

***P. nigriceps*<sup>+</sup> (Dejean, 1831)  $\mathbb{R}$  [a]**  
 Ozaukee

#### Tribe ODACANTHINI

*Colliuris* DeGeer, 1774

subgenus *Cosnania* Dejean, 1821

(= *pennsylvanica* group)

*C. pennsylvanica* (Linnaeus, 1767)

#### Tribe CTENODACTYLINI

*Leptotrachelus* Latreille, 1829

***L. dorsalis* (Fabricius, 1801) [abglor]**

Dane, Grant, Iowa, La Crosse, Milwaukee, Ozaukee, Sauk

#### Tribe CYCLOSOMINI

*Tetragonoderus* Dejean, 1829

subgenus *Tetragonoderus s. str.*

(= *intersectus* group)

*T. fasciatus* (Haldeman, 1843)

#### Tribe LEBIINI

*Cymindis* Latreille, 1806

subgenus *Cymindis s. str.* (= *pilosa* group)

*C. americana* Dejean, 1826

*C. borealis* LeConte, 1863  $\mathbb{R}$  "Wisconsin"

*C. cribricollis* Dejean, 1831  $\mathbb{R}$  Adams,

Bayfield, Dodge, Portage, Wood

*C. neglecta* Haldeman, 1843  $\mathbb{R}$  Adams,

Columbia, Monroe, Portage,

Waukesha

*C. pilosa* Say, 1823  $\mathbb{R}$  Adams,

Jefferson, Portage, Sauk, Wood

*C. planipennis* LeConte, 1863  $\mathbb{R}$  [qr]

Monroe

subgenus *Pinacodera* Schaum, 1857

(= *platicollis* group)

*C. limbata* Dejean, 1831

*C. platicollis* (Say, 1823)

*Dromius* Bonelli, 1810

subgenus *Dromius s. str.* (= *piceus* group)

*D. piceus* Dejean, 1831

##### *Axinopalpus* LeConte, 1849

***A. biplagiatus* (Dejean, 1825) [alrx]**

Adams, Bayfield, Grant, Iron, Portage,

Sauk, Sheboygan, Washington

*Apristus* Chaudoir, 1846

*A. subsulcatus* (Dejean, 1826)  $\mathbb{R}$  Dane

*Microlestes* Schmidt-Goebel, 1846

*M. linearis* (LeConte, 1851)

***M. pusio* (LeConte, 1863)  $\mathbb{R}$  [a]**

Ozaukee

*Syntomus* Hope, 1838

*S. americanus* (Dejean, 1831)

*Lebia* Latreille, 1802

subgenus *Loxopeza* Chaudoir, 1871

(= *grandis* group)

*L. atriventris* Say, 1823

*L. grandis* Hentz, 1830

*L. tricolor* Say, 1823

subgenus *Lamprias* Bonelli, 1810

(= *divisa* group)

***L. divisa* LeConte, 1850  $\mathbb{R}$  [r]** Iowa

subgenus *Lebia s. str.* (= *vittata* group)

*L. abdominalis* Chaudoir, 1843  $\mathbb{R}$

*L. analis* Dejean, 1825

*L. bivittata* (Fabricius, 1798)  $\mathbb{R}$

"Wisconsin" (Madge 1967: p197)

*L. fuscata* Dejean, 1825

*L. lobulata* LeConte, 1863  $\mathbb{R}$  Dane

***L. moesta* LeConte, 1850  $\mathbb{R}$  [lx]**

Dane, Washington



- L. ornata* Say, 1823  
*L. pleuritica* LeConte, 1848  $\mathbb{R}$  Grant, Vernon  
*L. pulchella* Dejean, 1826  $\mathbb{R}$  Dane  
*L. pumila* Dejean, 1831  
*L. solea* Hentz, 1830  
*L. viridipennis* Dejean, 1826  $\mathbb{R}$  [bglrx] Dane, Dodge, La Crosse, Richland, Sauk, Vernon  
*L. viridis* Say, 1823  
*L. vittata* (Fabricius, 1777)  $\mathbb{R}$  Bayfield, Burnett, Dane, Jackson, La Crosse, Milwaukee, Sauk
- Plochionus* Dejean, 1825**  
 subgenus *Menidius* Chaudoir, 1872 (= *amandus* group)  
*P. timidus* Haldeman, 1843  $\mathbb{R}$  [ab] Dane, Washington
- Calleida* Latreille & Dejean, 1824  
 subgenus *Calleida* s. str. (= *decora* group)  
*C. punctata* LeConte, 1848  
*C. purpurea* (Say, 1823)  $\mathbb{R}$  Bayfield, Burnett, Douglas, Juneau, Monroe
- Tribe GALERITINI  
*Galerita* Fabricius, 1801  
 subgenus *Progaleritina* Jeannel, 1949 (= *bicolor* group)  
*G. bicolor* (Drury, 1773)  $\mathbb{R}$  Grant, Sauk  
*G. janus* (Fabricius, 1792)
- Tribe HELLUONONI  
*Helluomorphoides* Ball, 1951  
*H. praeustus bicolor* (T.W. Harris, 1828)  $\mathbb{R}$  [qrx] Jackson, Monroe, Richland, Waushara, Wood

### Collection data for 87 new Wisconsin state records of ground beetles.

The collection label data from specimens representing new state of Wisconsin records are presented in full. After each species name the label data are grouped by county names (or "Wisconsin") shown in bold print, followed by locality, geographic positioning coordinates, collection date, bionomics, and collector. Numbers and abbreviations in parentheses indicate the number of specimens collected and the corresponding repositories. Repositories are: BBC, Byron L. Buchli private collection; DDC, Dan L. Dettwiler private collection; DHC, Drew A. Hildebrandt private collection; FMNH, Field Museum of Natural History; HGC, Herbert J. Grimek private collection; JDC, John J. Dorshorst private collection (possibly later assimilated into WIRC); MPM, Milwaukee Public Museum; PMC, Peter W. Messer private collection; UWO, University of Wisconsin – Oshkosh; WIRC, University of Wisconsin – Madison (mainly the Insect Research Collection, otherwise in the Daniel K. Young Lab or the Claudio Gratton Lab). Frequently used conventions on data labels are: SNA, state natural area; SWA, state wildlife area; WA, wildlife area.

Brief comments address the published species localities nearest to Wisconsin, that is, usually one or more of the surrounding states: Illinois, Iowa, Michigan, and Minnesota. Eight species were previously known not to occur in any state bordering Wisconsin. They are *Acupalpus canadensis*, *Amara ovata*, *Bembidion recticolle*, *Brachinus fulminatus*, *Dyschirius aratus*, *Pterostichus atratus*, *Pterostichus corruscus*, and *Stenolophus dissimilis*.

#### ***Clinidium baldus* Bell, 1970**

**Grant:** Cassville Bluffs SNA, 42° 42' 02"N, 90° 56' 22"W, 17-IX-2008, extracted from damp moist rotting log in hardwood forest, J.P. Gruber (1, PMC). Range includes Illinois and Iowa.

#### ***Notiophilus semistriatus* Say, 1823**

**Crawford:** The 'Hogback' Prairie, 43° 13' 03"N, 90° 52' 36"W, 1-X-2002, crawling on rock in prairie, sunny, J.P. Gruber (1, PMC). **Florence:** Spread Eagle Barrens SNA, 45° 49' 04"N, 88° 10' 22"W, 7-VII-2005, under bark of *Pinus* sp. log, J.P. Gruber (1, PMC). **Green:** Olivier Prairie, T3N-R8E-S36, 17-IX-1986, native prairie pitfall, (1, WDNR). Range includes all surrounding states.

***Cicindela hirticollis rhodensis* Calder, 1916**

Populations apparently fitting this subspecies occur in the northern half of Wisconsin along sandy beaches of the Great Lakes. They are likely an intergrade continuum of *C. h. hirticollis* x *C. h. rhodensis* (Mathew L. Brust, pers. com. 2005).

**Ashland:** Madeline Island, 46° 50' 20"N, 90° 36' 02"W, 25-V-2009, under drift log on sunny sand beach, P. Messer (1, PMC). **Door:** Newport State Park, 45.238°N, 86.985°W, 5-VI-2005, flying on open sandy beach of Lake Michigan, P. Messer (11, PMC). **Manitowoc:** Two Rivers, Point Beach State Forest, 9-VI-1968, (1, UWO). Point Beach State Forest, 44.224°N, 87.508°W, 4-VI-2005, flying on open sandy beach of Lake Michigan, P. Messer (4, PMC). **Ozaukee:** Mequon lakefront, 43.231°N, 87.917°W, 10-VI-2007, under log on sunny sand beach, P. Messer (1, PMC). **Sheboygan:** Kohler-Andrae State Park, 43° 40' 25"N, 87° 42' 42"W, 16-VII-2005, sweep net on beach, J.J. Dorshorst (1, JDC). Range includes Minnesota and likely more surrounding states.

***Blethisa hudsonica* Casey, 1924** This species is cited as new because of redescription by Goulet et al. (2009) which corrects all Wisconsin specimens labeled "*B. multipunctata aurata*" to *Blethisa hudsonica* (see discussion).

**Adams:** "Bula" farm, 43.8699°N, 89.7071°W, 5-VI-2006, pitfall in weedy/fallow pasture near potato field, H. Gaines (1, PMC). **Ozaukee:** Mequon lakefront, 43.231°N, 87.917°W, 25-V-2008, dead under log on sunny sand beach, P. Messer (1, PMC). **Washington:** 5.5 mi. NW Slinger, T11N-R18E-S27, 18-VI-1980, cattail marshy area near creek, D. Hildebrandt (1, DHC). Jackson Marsh, 2.1 mi E./0.9 mi N. Jackson, 4-VI-1976, Noonan/Borkin (1, MPM). **Waukesha:** 5.1 mi. N. Eagle, 16-V-1981, treading pond margin, Noonan/Murray/Stork (3, MPM, 1, DHC). Range includes Illinois and Michigan.

***Omophron grossum* Casey, 1909**

**La Crosse:** 14-IX-1973, H. Grimek (2, HGC). **Trempealeau:** 1,11,13-VII-1973, H. Grimek (several, HGC, 2, PMC). Range includes Iowa.

***Brachinus adustipennis* Erwin, 1969**

**Grant:** Wyalusing Recreation Area, 42.9483°N, 91.1439°W, 14-V-2005, daytime under stone of pebbly bank of Mississippi River, P. Messer (7, PMC). Range includes Illinois and Michigan.

***Brachinus fulminatus* Erwin, 1969**

**Waukesha:** Kettle Moraine State Forest, 2.5 mi W. Eagle, T5N-R17E-S20, 21-VII-1982, oak woods, D. Hildebrandt (1, DHC). Range includes Indiana eastwardly.

***Brachinus kavanaughii* Erwin, 1969**

**Grant:** Wyalusing Recreation Area, 42.9483°N, 91.1439°W, 14-V-2005, daytime under stone of pebbly bank of Mississippi River, P. Messer (2, PMC). Range includes Illinois.

***Brachinus patruelis* LeConte, 1844**

**Grant:** Woodman State Wildlife Area, 43.1033°N, 90.8004°W, 13-V-2005, daytime under log floodplain at woods edge, P. Messer (6, PMC). **Vilas:** 6 mi. E. of Eagle River, 45° 54' 09"N, 89° 23' 35"W, 24-V-2009, 8 AM under log in mossy floodplain of Wisconsin River, P. Messer (1, PMC). Range includes Illinois and Michigan.

***Dyschirius haemorrhoidalis* (Dejean, 1831)**

**Dane:** Marshall, 14-VI-1987, blacklight, B. Buchli, (1 BBC). **Jefferson:** Cambridge, 26-VI-2001, UV light, B. Buchli (1, BBC). **Ozaukee:** 43.210°N, 87.965°W, 9-VII-2000, 13-VII-2000, 8-VII-2001, 21-VII-2001, 31-VII-2001, 25-VI-2002, blacklight back yard suburban lawn and wooded, P. Messer (7, PMC). Range includes all surrounding states.

***Dyschirius terminatus* LeConte, 1848**

**Wood:** Port Edwards, 11-VIII-1948, light trap, W.W. Barrett (1, WIRC). Range includes Iowa and Michigan.

***Dyschirius aratus* (LeConte, 1852)**

**Monroe:** Ft. McCoy SNA, 43° 59' 13"N, 90° 40' 44"W, pitfall 19-IV to 2-V-2001, sandy prairie, J.P. Gruber (1, PMC). Range previously known west and south of Nebraska.

***Dyschirius pumilus* (Dejean, 1825)**

**Monroe:** Ft. McCoy SNA, 43° 59' 13"N, 90° 40' 44"W, pitfall 19-IV to 2-V-2001, sandy prairie, J.P. Gruber (1, WIRC). Range includes Minnesota.

***Dyschirius erythrocerus* LeConte, 1857**

**Dane:** Cottage Grove, 27-6-2001, blacklight trap, B. Buchli (1, BBC). Deerfield, 10-6-2005, blacklight trap, B. Buchli (1, BBC). Stoughton Park, 42° 55' 10"N, 89° 13' 11"W, 27-V-2007, muddy river bank, P. Messer (1, PMC). Deerfield, 7-VII-2007, blacklight trap, B. Buchli (1, PMC). **Dodge:** 5.8 mi E. Horicon, T11N-R17E-S06, 27-VI-1980, night on moist quarry ground sparse vegetation, D. Hildebrandt (1, DHC). **Ozaukee:** Mequon, 43° 12' 28"N, 87° 58' 06"W, 17-IX-2000, mud flat of river bank, P. Messer (2, PMC). Mequon, 43.210°N, 87.965°W, 13-VII-2000, 30-V-2002, 30-VI-2002, 1-VII-2002, 28-V-2006, blacklight on suburb lawn, P. Messer (6, PMC). **Vernon:** Viroqua, 8-VIII-1996, S.A. Steffan (1, WIRC). **Wood:** Griffith St. Nursery, 24-VII-1947, R.D. Shenefelt (1, WIRC). Range includes all surrounding states.

***Dyschirius politus*\* (Dejean, 1825)**

**Milwaukee:** Doctors Park, 43.173°N, 87.881°W, 25-V-2003, under drift on sandy beach of Lake Michigan, P. Messer (1, PMC). **Monroe:** Ft. McCoy SNA, 1-VII-1996, at UV in oak savanna/sand prairie, J.A. Maxwell (1, PMC). Range includes Michigan.

***Clivina dentipes* Dejean, 1825**

**Dane:** Deerfield, 21-VII-1987 and 22-VI-1989, blacklight, B. Buchli (2, BBC). **Grant:** Wyalusing, T6N-R6E-S16/17, 31-VIII-1963, under stone, D.L. Dettwiler, (1, DDC). **Richland:** 1 mi. W. of Gotham, metadata 43.214°N, 90.300°W or T9N-R2E-S31, 1-VI-1984, light trap in oak/sand savanna, L.A. Ferge (1, WIRC, 1, PMC). Range includes Illinois, Iowa, and Michigan.

***Clivina ferrea* LeConte, 1857**

**Vernon:** Viroqua, 5-VII-1996, S.A. Steffan (1, WIRC). ). Range includes Illinois and Iowa.

***Clivina postica* LeConte, 1848**

**Dane:** 22-IX-1898, Wm. S. Marshall (1, WIRC). Range includes Illinois and Iowa.

***Semiardistomis viridis* (Say, 1823)**

**Grant:** Wyalusing, T6N-R6W-S16/17, 31-VIII-1963, D.L. Dettwiler (23, DDC, 4, PMC). Range includes Illinois.

***Blemus discus*\* (Fabricius, 1792)**

**Adams:** 43.9966°N, 89.602°W, 18-VII-2005 and 30-VIII-2005, pitfall potato field, B. Werling (2, WIRC). **Columbia:** 43° 18' 31.48"N, 89° 11' 32.84"W, 10-VIII-2005, pitfall cattle pasture, C. Gratton (1, WIRC). **Dane:** Deerfield, Goose Lake SWA, 21-7-1991, blacklight trap, B. Buchli (1, BBC). Deerfield, 7-VII-2007, blacklight trap, B. Buchli (1, PMC). **Forest:** Nicolet National Forest, 45° 51' 14"N, 88° 51' 54"W, 20-VII-2005, Hg vapor and blacklight hardwood cut-site,

J. J. Dorshorst (1, JDC). **Iowa:** Trout Creek SFA, 43° 4.900'N, 89° 58.501'W, 9-VIII-2006, UV light open field near forest, K. Johnson (1, WIRC). **Ozaukee:** 43.2105°N, 87.9649°W, 9-VII-2000, blacklight 9-11 PM suburban lawn, P. Messer (1, PMC). Mequon, 43.210°N, 87.965°W, 7-VII-2002, blacklight field, P. Messer (1, PMC). **Poratze:** 44.5393N°, 89.4515°W, 30-8-2005, pitfall potato field farmland, B. Werling (1, PMC). Range includes Michigan.

***Trechus crassiscapus* Lindroth, 1955**

**Douglas:** 16-VIII-1964, dry bog, mixed mosses, W. Suter (1, PMC). **Price:** Riley Lake Bog, 45° 49.101'N, 90° 9.881'W, 24-IX-2005, Berlese, acid bog hummock, K.E. Johnson (1, PMC). Range includes Minnesota.

***Bembidion cheyennense* Casey, 1918** This species name replaces *Bembidion bifossulatum* (LeConte, 1852) for Wisconsin specimens (see discussion).

**Dane:** Madison, ?-IX-1899, (1, WIRC). **Douglas:** near Brule River mouth, 23-VII-1979, G. Drecktrah (1, PMC). **Grant:** T2N-R3W-S14-NW, 18-VI-1968, light trap at night, D.L. Dettwiler (2, DDC). **Milwaukee:** Milwaukee, 1959, D.L. Dettwiler (1, DDC). **Sauk:** Spring Green Preserve, 43° 11' 52"N, 90° 03' 33"W, 8-VIII-2005, Hg vapor and blacklight in sand prairie, J.J. Dorshorst (1, PMC). **Wisconsin:** before 1897, F. Rauterberg (7, MPM). Range includes Iowa, Michigan, and Minnesota.

***Bembidion simplex* Hayward, 1897**

**Milwaukee:** Doctors Park, 43° 10' 18"N, 87° 52' 52"W, 28-V-2000, under shore debris of Lake Michigan, P. Messer (1, PMC). Range includes Michigan.

***Bembidion nigrum* Say, 1823**

**Sauk:** Honey Creek SNA, 43° 21' 17"N, 89° 58' 57"W, 13-VII-2007, from rock above creek in forest, early morning, J.P. Gruber (1, PMC). **Wisconsin:** before Oct 1897, F. Rauterberg (1, MPM). Range includes all surrounding states.

***Bembidion reticolle* LeConte, 1848**

**Milwaukee:** before 1897, F. Rauterberg (1, MPM). Data is possibly mislabeled based on old record and extreme range extension to the east. Range includes Wyoming westwardly and southwardly.

***Bembidion grapii* + Gyllenhal, 1827**

**Bayfield:** 26-VI-1897, Wm. S. Marshall (1, WIRC). Another Wisconsin specimen labeled "Bayfield" observed at Museum of Comparative Zoology by Yves Bousquet in pers. com. 2008. Range includes Michigan and Minnesota.

***Bembidion incrematum* LeConte, 1860**

**Bayfield:** 26-VI-1897, Wm. S. Marshall (1, WIRC). Range includes Michigan.

***Bembidion coloradense* Hayward, 1897**

**Wood:** Griffith St. Nursery, 14-VII-1947, R.D. Shenefelt (1, MPM). Range includes Minnesota.

***Bembidion intermedium* (Kirby, 1837)**

**Dodge:** Beaver Dam, 4-IX-1910, W.E. Snyder (1, MPM). **Fond du Lac:** Auburn, T13N-R19E-S15, 19-VIII-1963, water edge at night, D.L. Dettwiler (1, DDC). **Milwaukee:** River Hills, T8N-R21E-S12, 16-VI-1980, active at night on muddy riverbank, D. Hildebrandt (1, DHC). **Washington:** 3.0 mi E./0.8 mi. N. Jackson Marsh, T10N-R20E-S15, 11-VII-1980, moist area with dense vegetation active on ground at night, D. Hildebrandt (1, PMC). Range includes Michigan and Minnesota.

***Bembidion nigripes* (Kirby, 1837)**

**Florence:** T39N-R16E-S21, 27-VI-1958, light trap, J. Kapler (1, WIRC). Range includes Michigan and Minnesota.

***Bembidion praticola* Lindroth, 1963** (See *Bembidion nigrivestis* for clarification of state records).

**Green:** 42° 45' 15"N, 89° 45' 15"W, 20-VII-2006, pitfall in disturbed grassland/pasture, C. Gratton (1, PMC). **Racine:** Waterford, Fox River, T4N-R19E-S35, 22-IV-1962, riverbank, D.L. Dettwiler (1, DDC). Range includes Illinois and Minnesota.

***Bembidion nigrivestis* Bousquet, 2006**

**Juneau:** Necedah National Wildlife Refuge, 11-VI-1996, pitfall, K. Pope (2, WIRC). These two specimens were reported as "*Bembidion praticola*" in Purrington et al. (2000) prior to knowledge of new species description by Bousquet (2006). **Washington:** Pike Lake, NE corner, 4-VI-1976, marsh, G. Noonan (1, MPM). Range includes Minnesota.

***Bembidion fortetrium* (Motschulsky, 1845)**

**Ashland:** end of Lake rd, Lake Superior, 46° 36' 10"N, 90° 35' 32"W, 24-V-2009, under drift log sunny sandy beach, P. Messer (1, PMC). Range includes Illinois, Michigan, and Minnesota.

***Bembidion pseudocautum* Lindroth, 1963**

**Jackson:** Red Clover, 3-V-1948, J.T. Medler (1, WIRC). **Wood:** Port Edwards, 17-VIII-1948, 26-VIII-1948, 28-VIII-1948, 2-IX-1948, 7-IX-1948, 15-VIII-1949, light trap, W.W. Barrett (13, WIRC). Range includes Illinois, Michigan, and Minnesota.

***Elaphropus xanthopus* (Dejean, 1831)**

**Sheboygan:** Lake Michigan, 43.657°N, 87.723°W, 26-VIII-2001, under drift on sandy beach, P. Messer (1, PMC). Range includes Illinois and Michigan.

***Porotachys bisulcatus*\* (Nicolai, 1822)**

**Dane:** Cambridge, 6-VII-1988, blacklight, B. Buchli (1, BBC). Deerfield, 10-VI-2000, blacklight, B. Buchli (1, PMC). **Ozaukee:** Mequon, 43.210°N, 87.965°W, 23-VI-2003, UV in suburban field, P. Messer (1, PMC). Range includes Minnesota.

***Polyderis laevis* (Say, 1823)**

**Crawford:** Hogback Prairie SNA, 43° 13' 03"N, 90° 52' 36"W, 23-IV-2003, in/near *Aphaenogaster* sp. nest under rock on bluff prairie, 12:30 PM, 60-63° F, clear, J.P. Gruber (1, PMC). Hogback Prairie SNA, 43° 13' 03"N, 90° 52' 36"W, 13-VI-2003, in/near *Aphaenogaster* sp. nest under rock on bluff prairie, 2:40 PM, 79° F, scattered clouds, J.P. Gruber (1, PMC). **Iowa:** Taliesin Goat Prairie, 43° 07' 58"N, 90° 03' 33"W, 21-5-2005, underside of rock on bluff prairie, 12:55 PM, 67° F, mostly cloudy, J.P. Gruber (1, PMC). **Sauk:** Spring Green Preserve, 43° 11' 58"N, 90° 03' 32"W, 28-V-2005, leaf litter dry mesic southern forest, J.P. Gruber (1, WIRC). Range includes Iowa and Michigan.

***Paratachys proximus* (Say, 1823)**

**Dane:** Cottage Grove, 27-VI-2001, blacklight trap, B. Buchli (1, PMC). Deerfield, 19-VII-1987, 16-VII-2002, 10-VI-2005, 7-VII-2007, blacklight trap, B. Buchli (3, BBC, 1, PMC). **Grant:** Mississippi River, Closing Dam Road, 42.762°N, 91.059°W, 7-VI-2003, daytime under log river bank, P. Messer (1, PMC). **Milwaukee:** Milwaukee, T6N-R22E-S29, 16-VI-1962, under rock, D.L. Dettwiler (1, DDC). Greenfield, T6N-R21E-S35, 24-V-1963, under debris lake-shore, D.L. Dettwiler (1, DDC). Milwaukee, 5-VI-1963, at light, D.L. Dettwiler



(1, DDC). Lake Michigan, 43.173°N, 87.881°W, 19-V-2001, under drift beach sand, P. Messer (1, PMC). **Ozaukee:** Mequon, 43.210°N, 87.965°W, 7-V-2000, 25-VI-2000, 9-VII-2000, 13-VII-2000, 26-VII-2000, 28-VI-2001, 28-V-2002, 30-VI-2002, 7-VII-2002, 15-VII-2002, 1-IX-2002, 23-VI-2003, 3-VII-2003, 8-VI-2004, blacklight backyard lawn or wooded, P. Messer (21, PMC). Lake Michigan, 43.231°N, 87.917°W, 8-V-2002, under drift beach sand, P. Messer (1, PMC). Range includes Illinois.

***Paratachys pumilus* (Dejean, 1831)**

**Green:** 42° 45' 15"N, 89° 45' 15"W, 22-VI-2006, pitfall in disturbed grassland/pasture, C. Gratton (2, PMC). Range includes Iowa.

***Paratachys scitulus* (LeConte, 1848)**

**Ozaukee:** 43.2106°N, 87.9649°W, 13-VII-2000, blacklight on suburban lawn, P. Messer (1 PMC). Range includes all surrounding states.

***Loxandrus velocipes* Casey, 1918**

**Crawford:** four sites 1 mi to 2 mi E. to N.E. of Boscobel, 43.1643°N, 90.7054°W / 43.1709°N, 90.6969°W / 43.1772°N, 90.6872°W / 43.1830°N, 90.6767°W, 12-V-2005, daytime under stone at bluff base, P. Messer (14, PMC). **Grant:** Wyalusing, T6N-R6W-S16, 31-VIII-1963, near water, under rock, D.L. Dettwiler (2, DDC). Wyalusing, T6N-R6W-S5, 11-IV-1966, under rock, D.L. Dettwiler (1, DDC). Wyalusing Recreation Area, Mississippi River, 42.946°N, 91.142°W, 7-VI-2003, under cover in wooded floodplain, P. Messer (1, PMC). Wyalusing State Park, Wisconsin River, 42.995°N, 91.111°W, 13-V-2005, daytime under log, P. Messer (1, PMC). Wyalusing Recreation Area, 42.9483°N, 91.1435°W, 14-V-2005, daytime under stone river floodplain, P. Messer (2, PMC). **Richland:** 1 mi. W. of Gotham, metadata 43.214°N, 90.300°W or T9N-R2E-S31, 1-VI-1984, light trap in sandy oak savanna, L.A. Ferge (several, WIRC, 2, PMC). Range includes Illinois and Minnesota.

***Gastrellarius honestus* (Say, 1823)**

**Washington:** 4 mi. W. West Bend, 8-V-1977, M. Voss (1, PMC). Range includes Illinois, Michigan, and Minnesota.

***Pterostichus corruscus* LeConte, 1873**

**Price:** Riley Lake, 45° 49.092'N, 90° 09.819'W, 24-IX-2005, shrub bog/poor fen hummock, Berlese, K. Johnson (1, PMC). Range includes Ontario eastwardly.

***Pterostichus trinarius* (Casey, 1918)**

**Grant:** Wyalusing, T6N-R6W-S16/17, 31-VIII-1963, under rock, D.L. Dettwiler (1, DDC). Range includes Illinois.

***Pterostichus luctuosus* (Dejean, 1828)**

**Ashland:** end of lake Rd, Lake Superior, 46° 36' 10"N, 90° 35' 32"W, sunny sandy beach under drift log, 24-V-2009, P. Messer (2, PMC). **Bayfield:** Little Sand Bay, Lake Superior, 46° 56' 47"N, 90° 53' 22"W, sunny sandy beach under drift log, 25-V-2009, P. Messer (1, PMC). **Columbia:** Mud Lake WA, T11N-R10E-S14/15, 21-VI-1985, pitfall grassy field, R. Gatti (1, WIRC). Mud Lake WA, 18-III-1995, under rotting log, (Kerry Katovich private collection). **Dane:** Madison, 18-IV-1935, under carrion, H.R. Dodge (2, WIRC). Deerfield, 12-IV-1987, rotting log, B. Buchli (2, WIRC). **Dodge:** Chester, T13N-R15E-S01, 1-IV-1966 under rock, D.L. Dettwiler (1, DDC). **Douglas:** Moccasin Mike Rd Beach, Lake Superior, 46° 41' 13"N, 91° 58' 32"W, sunny sandy beach under drift log, 26-V-2009, P. Messer (1, PMC). **Grant:** Wyalusing, T6N-R6W-S16, 31-VIII-1963, under rock, D.L. Dettwiler (1, DDC). Wyalusing, T6N-R6W-S16, 16-VI-1968, sandy beach at night, D.L. Dettwiler (1, DDC). **Milwaukee:** Doctors Park, 43.17°N, 87.88°W, 23-VII-2003, daytime under stone/log mesic ravine, P. Messer (1, PMC). Greenfield, T6N-R21E-S35,



24-V-1963, under debris lake shore, D.L. Dettwiler (1, DDC). Oak Creek, T5N-R22E-S4, 24-V-1963, under debris, D.L. Dettwiler (1, DDC). Oak Creek, T5N-R22E-S4, 12-VII-1961, in dry creek bed, D.L. Dettwiler (1, DDC). Oak Creek, 3-V-1962, under board grassy area next to woods, D.L. Dettwiler (1, DDC). Oak Creek, T7N-R22E-S09, 3-V-1963, under debris, D.L. Dettwiler (1, DDC). Oak Creek, T5N-R22E-S4, 1-V-1966, under rock, D.L. Dettwiler (1, DDC). **Oneida:** Lake George, T36N-R9E-S14, 23-VIII-1960, D.L. Dettwiler (1, DDC). **Ozaukee:** Milwaukee River, 43.204°N, 87.974°W, 27-V-2002, daytime under debris bank, P. Messer (1, PMC). Mequon, 43.231°N, 87.917°W, 8-V-2002, 14-VI-2003, 28-VI-2003, 9-VII-2003, 20-IV-2008, daytime under drift on beach sand, P. Messer (6, PMC). Virmond Park, 43.211°N, 87.899°W, 23-VII-2005, daytime under drift on beach sand, P. Messer (1, PMC). Cedarburg Bog, 43.404°N, 88.001°W, 13-VI-2005, 31-V-2005, 27-VI-2005, 11-VII-2005, 25-VII-2005, 23-VIII-2005, open or closed peatland pitfall, S. Spoo/WDNR (15, WIRC, 1, PMC). Mequon, 43.238°N, 87.937°W, 21-VIII-2005, under log in mesic forest nature preserve, P. Messer (2, PMC). T11N-R21E-S7, 5-X-2004, under rocks in woods, D.L. Dettwiler (1, DDC). T11N-R21E-S7, 12-X-2004, under log dry bed vernal pond, D.L. Dettwiler (1, DDC). Riveredge, 5-V-2004 and 12-X-2004, under rock in woods, D.L. Dettwiler (2, DDC). **Sauk:** Leopold Reserve Chapman Lake, [metadata T13N-R7E-S34 known to author], 8-VII-1987, L.F. Goodman (1, WIRC). **Washington:** Addison, T11N-R18E-S25, 16-VIII-1963, D.L. Dettwiler (1, DDC). **Waukesha:** Scuppernong Prairie, 1.5 mi. NW Eagle, marsh, G. Noonan (2, MPM). Big Bend, banks of Fox River, 2-IX-1976, Noonan (1, MPM). **Winnebago:** Oshkosh, 4-V-1988, 22-IV-1990, 7-IV-1968, (3, UWO). Range includes all surrounding states.

***Pterostichus atratus* (Newman, 1838)**

**Dane:** Only county given by Sadek, L.S. (1982): p 34 without corresponding repository. No Wisconsin specimen observed by me. Range includes Indiana southwardly and eastwardly.

***Amara pennsylvanica* Hayward, 1908**

**Dodge:** Beaver Dam, 1940 (MPM). **Fond du Lac:** Auburn Lake, T13N-R19E-S15, 5-V-1963, under basal leaves of *Verbascum thapsus*, D.L. Dettwiler (1, DDC). **Milwaukee:** Milwaukee, 7-IX-1960, at lights, D.L. Dettwiler (1, DDC). Milwaukee, T6N-R22E-S29, 1-IX-1961, D.L. Dettwiler (1, DDC). **Waukesha:** 4.1 mi. E. Dousman, 2-VI-1976, in old gravel pit, (1, MPM). **Wisconsin:** no date (1, WIRC). Range includes all surrounding states.

***Amara apricaria*\* (Paykull, 1790)**

**Adams:** 43.9079°N, 89.6962°W, pitfall 11-25-VI-2007, H. Gaines (1, PMC). **Bayfield:** Clover, T50N-R7W-S4, 5-IX-1966, among debris sandy beach, D.L. Dettwiler (1, DDC). **Brown:** Green Bay, 10-IX-2000, sidewalk, (UW-Green Bay). East River Trail, 44° 28.016'N, 88° 0.662'W, 1-I-2006, 12 AM at park lights, K. Johnson (1, WIRC). East River Trail, 44° 28.016'N, 88° 0.662'W, 10-V-2006, park building lights, K. Johnson (1, WIRC). **Dane:** Deerfield, 7-VII-1986, blacklight, B. Buchli (1, BBC). Missouri Rd, 18-VII-1986, blacklight, B. Buchli (1, PMC). Cottage Grove, 28-VI-2005, blacklight, B. Buchli (1, BBC). **La Fayette:** Darlington, under log in deciduous woods, J. Steffens (1, Jim Steffens collection). **Manitowoc:** Two rivers, T20N-R25E-S9, 14-VII-1963, D.L. Dettwiler (1, DDC). **Milwaukee:** Milwaukee, 1959, D.L. Dettwiler (7, DDC). Milwaukee, 18-III-1964, in house basement, D.L. Dettwiler (1, DDC). Milwaukee, T6N-R22E-S29, 1-IX-1961, D.L. Dettwiler (1, DDC). Milwaukee, 6-VII-1961, 9-VIII-1961, 23-VIII-1962, 1-VI-1963, at light, D.L. Dettwiler (4, DDC). Shorewood, 43.091°N, 87.873°W, 14-VIII-2002, lake beach debris, P. Messer (1, PMC). Glendale, T7N-R22E-S5, 21-VII-1964, D.L. Dettwiler (1, DDC). Doctors Park, 43.173°N, 87.881°W, 13-VII-2003, daytime, under drift sandy beach, P. Messer (1, PMC). **Ozaukee:** Mequon, 43.210°N,

87.965°W, 15-VII-2002, blacklight yard field, P. Messer (1, PMC). **Portage:** 44.388°N, 89.694°W, 22-VII-2005, pitfall potato field, B. Werling (1, WIRC). **Washington:** West Bend, T11N-R19E-S34, 19-VII-1963, under basal leaves of *Verbascum thapsus*, D.L. Dettwiler (1, DDC). **Waukesha:** Delafield, T7N-R18E-S06, 4-VII-1968, 13-VII-1968, D.L. Dettwiler (2, DDC). **Winnebago:** Oshkosh, 13-VII-1929, at light, R.N. Buckstaff (1, MPM). Oshkosh, 21-III-1990, (1, UWO). **Wood:** Griffith St. Nursery, 24 and 25-VII-1947, 6-VIII-1949, R.D. Shenefelt (3, WIRC). Range includes all surrounding states.

***Amara laevipennis* Kirby, 1837**

**Sheboygan:** Kohler Park Dunes SNA, 43° 39' 53"N, 87° 43' 11"W, pitfall 14-26-IV-2001, lakeshore dunes, J.P. Gruber (1, WIRC). Range includes Michigan and Minnesota.

***Amara ovata*\* (Fabricius, 1792)**

**Columbia:** Mud Lake SWA, T11N-R10E-S14/15, 28-VI-1985, pitfall grassy field, R. Gatti (1, PMC). **Dane:** Madison, 5-V-1959, (WIRC). Deerfield, Goose Lake, 2-V-2006, under wood, B. Buchli (1, PMC). **Milwaukee:** 43.129°N, 87.970°W, 28-V-2001, swept meadow weeds daytime, P. Messer (1, PMC). Kletzsch Park, 43.139°N, 87.924°W, 9-VI-2001, swept weeds, P. Messer (1, PMC). Jackson Park, 42.997°N, 87.962°W, 4-IV-2005, under log dry mesic woods, P. Messer (1, PMC). Range includes Ontario eastwardly.

***Amara sinuosa* (Casey, 1918)**

**Milwaukee:** best estimate before 1930, Klages (1, Carnegie Museum of Natural History, det F. Hieke). **Wisconsin:** no date, Wm. S. Marshall (1, WIRC). Range includes Illinois, Michigan, and Minnesota.

***Panagaeus fasciatus* Say, 1823**

**Dane:** Madison, ?-V-1939 (1, WIRC). Deerfield, 25-IX-1986, at lights 10 PM, B. Buchli (1, BBC). Madison, 10-IX-2000, Katovich (1, PMC). **Wisconsin:** before 1897, F. Rauterberg (1, MPM). Range includes all surrounding states.

***Chlaenius solitarius* Say, 1823**

**Grant:** Wyalusing, T2N-R3W-S14, 16-VI-1968, under logs/rocks sandy beach, D.L. Dettwiler (30, DDC). Cassville, Mississippi River, 42.709°N, 90.986°W, 6-VI-2003, daytime under stone boat landing, P. Messer (1, PMC). 3 mi. W. Woodman, 43.0763°N, 90.8440°W, 13-V-2005, daytime under log sandy river beach, P. Messer (1, PMC). Wyalusing State Park, 42.995°N, 91.111°W, 13-V-2005, daytime under log river trail, P. Messer (1, PMC). **La Crosse:** 22-IX-1973, under bark near river, H. Grimek (1, HGC). **Richland:** Lone Rock, 43° 11' 24"N, 90° 14' 24"W, 18-IX-2005, exposed riverbank, K. Johnson (1, WIRC). **Trempealeau:** 4-VIII-1973, H. Grimek (1, HGC). Range includes all surrounding states.

***Chlaenius purpuricollis purpuricollis* Randall, 1838**

**Ozaukee:** Mequon, 43° 12' 37"N, 87° 57' 54"W, 6-IV-2000, pitfall in backyard weed field, P. Messer (1, PMC). Mequon, 43.2106°N, 87.9649°W, 11-VII-2000, backyard pitfall, P. Messer (1, PMC). Mequon, 43.2106°N, 87.9649°W, 7-VIII-2000, pit trap wooded backyard, P. Messer (1, PMC). Range includes Iowa, Illinois, Minnesota.

***Diplocheila undulata* Carr, 1920**

**Dane:** 17-V-1958, Fellenz (1, WIRC). **Kenosha:** Chiwaukee Prairie, 4-V-1968, mixed mosses marsh, W. Suter (1, FMNH). Carol Beach / Chiwaukee Prairie, 17-V-1972, under boards on sod, W. Suter (1, FMNH). **Waukesha:** Scuppernong Prairie 1.5 mi. NW Eagle, 2-VI-1976, marsh, G.R. Noonan (1, MPM). Range includes Illinois.

***Badister obtusus* LeConte, 1878**

**Adams:** 44.04007°N, 89.58653°W, 8-VII-2005, pitfall potato field, B. Werling (1, PMC). 44.04007°N, 89.58653°W, 5-VIII-2005, pitfall potato field, B. Werling (1, WIRC). **Columbia:** Grassy Lake WA, T11N-R11E-S15, 13-VI-1985, 21-VI-1985, pitfall grassy field, R. Gatti (1, WIRC, 1, PMC). **Walworth:** Kettle Moraine Oak Opening SWA, 42° 50' 19"N, 88° 36' 29"W, Lindgren funnel trap with ipsdienol 19-IV to 10-IV-2005, *Pinus resinosa* plantation, J.J. Dorshorst (1, PMC). Range includes Michigan and Minnesota.

***Badister ocellaris* Casey, 1920**

**Richland:** 1 mi. W. of Gotham, T9N-R2E-S31, 1-VI-1984, sandy oak savanna-prairie, L.A. Ferge (1, WIRC). **Shawano:** Navarino WA, T25N-R16E-S9, 30-VI-1999, oak woods blacklight, K. Kirk (1, WIRC). Range includes Illinois, Michigan, Minnesota.

***Badister reflexus* LeConte, 1880**

**Dane:** Deerfield, 7-VII-2007, blacklight trap, B. Buchli (1, PMC). Range includes Illinois and Michigan.

***Anisodactylus ovularis* (Casey, 1914)**

**Dane:** Madison, "9-8-1915" (1, WIRC). 1 mi E. Deerfield, 1-VI-2008, in quarry, B. Buchli (1, PMC). **Green:** 42° 45' 15"N, 89° 45' 15"W, 22-VI-2006, pitfall disturbed grassland/pasture, C. Gratton (1, WIRC). **Iowa:** Ridgeway, 26-IV-2003, 17-VII-2004, in soil under grass, J. Steffens (2, Jim Steffens collection). **Milwaukee:** Milwaukee, 1959, D.L. Dettwiler (1, DDC). Lake Michigan, 43.173°N, 87.881°W, 19-V-2001, under drift sand beach, P. Messer (2, PMC). **Ozaukee:** 43.2106°N, 87.9649°W, 27-VI-2000, pitfall suburban woods, P. Messer (1, PMC). Lake Michigan, 43.231°N, 87.917°W, 8-V-2002, under drift sand beach, P. Messer (5, PMC). Virmond Park Beach, 43.211°N, 87.899°W, 24-IV-2004, under drift sand beach, P. Messer (2, PMC). **Vernon:** Stark, T13N-R2W-S29, 10-VI-1967, light trap, D.L. Dettwiler (1, DDC). Range includes all surrounding states.

***Anisodactylus laetus* Dejean, 1829**

**Dane:** Mazomanie, 4-VII-1991, blacklight trap, P. Johnson (1, PMC). **Jackson:** Millston, 8-VIII-1970, light trap, C.F. Koval (1, WIRC). Range includes Illinois, Michigan, and Minnesota.

***Stenolophus carbo* Bousquet, 1993**

**Milwaukee:** 1959, D.L. Dettwiler (1, DDC). South Milwaukee, T5N-R22E-S1, 27-IV-1963, in beach debris, D.L. Dettwiler (1, DDC). **Ozaukee:** Mequon shoreline, 43.231°N, 87.917°W, 29-VI-2008, daytime under debris sandy beach, P. Messer (1, PMC). Range includes Illinois and Michigan.

***Stenolophus dissimilis* Dejean, 1829**

**Ozaukee:** Mequon, 43.210°N, 87.969°W, 1-IX-2002, blacklight backyard grass, P. Messer (1, PMC). Mequon, 43.210°N, 87.969°W, 2-VII-2003, UV light suburb field, P. Messer (2, PMC). Range includes Indiana southwardly.

***Stenolophus rotundicollis* (Haldeman, 1843)**

**La Fayette:** Hardscrabble Prairie SNA, 42° 31.694'N, 90° 25.241'W, flight intercept trap 8-16-VI-2004, dry prairie, J.J. Dorshorst (1, PMC). **Milwaukee:** Oak Creek, T6N-R22E-S29, 23-VI-1962, D.L. Dettwiler (1, DDC). Milwaukee, T6N-R22E-S29, 17-IV-1963, under rock open area, D.L. Dettwiler (1, DDC). **Monroe:** Ft. McCoy SNA, 43° 59' 11"N, 90° 41' 40"W, flight intercept trap 9-17-VI-2007, oak savanna at margin of sandy prairie, J.P. Gruber (1, PMC). **Ozaukee:** Mequon shoreline, 43.231°N, 87.917°W, 26-VI-2004, daytime under debris sandy beach, P. Messer (1, PMC). **Sauk:** 43° 11' 59"N, 90° 03' 41"W, 5-19-V-2001, flight intercept trap sandy oak barrens, J.P. Gruber (1, WIRC).

**Vernon:** Viroqua HVF, 12-VI-1996, waterpan trap (ethylene glycol), S.A. Stefan (2, WIRC). **Washington:** 43.499°N, 88.193°W, 29-V-2002, swept weed/shrub wooded, P. Messer (1, PMC). Range includes Minnesota and Ontario eastwardly.

***Dicheirotrichus cognatus*<sup>+</sup> (Gyllenhal, 1827)**

**Winnebago:** Oshkosh, 26-III-1968, J.W. Rohrer (1, PMC). Range includes Michigan and Minnesota.

***Acupalpus rectangulus* Chaudoir, 1868**

**Racine:** Renak-Polak Maple Beech Woods SNA, 42° 48' 25"N, 87° 51' 53"W, Lindgren funnel trap with cantharidin 12-V to 2-VI-2005, southern mesic to wet-mesic hardwood forest, J.J. Dorshorst (1, PMC). Range includes Illinois, Iowa, and Michigan.

***Acupalpus canadensis* Casey, 1924**

**Iron:** Saxon Harbor Lake Superior, 46° 33' 43"N, 90° 26' 24"W, 24-V-2009, under drift log sandy sunny beach, P. Messer (2, PMC). Range includes Ontario eastwardly and South Dakota northwardly.

***Acupalpus pumilus* Lindroth, 1968**

**Dane:** Lake Mendota lakeshore, 20-X-2003, dry grassy marsh, K. Johnson (1, PMC). 42° 58' 19"N, 89° 19' 32"W, 13-VII-2006, pitfall cattle pasture, C. Gratton (1, PMC). **Dodge:** Beaver Dam, 10-IV-1910, 6-V-1910, 14-III-1911, 21-IV-1911, W.E. Snyder (4, MPM). 43° 35' 4"N, 88° 49' 3"W, 13-VII-2006, pitfall cattle pasture, C. Gratton (1, PMC). **Grant:** Blue River Sand Barrens SNA, 43° 11' 47"N, 90° 32' 08"W, 6-V-2001, leaf litter river bank of sandy oak barrens, J.P. Gruber (1, PMC). Blue River Sand Barrens SNA, 43° 11' 47"N, 90° 32' 08"W, 20-X-2006, Berlese of leaf litter forest floor, J.P. Gruber (1, PMC). **Juneau:** Armenia, T19N-R4E-S2, 29-VIII-1964, among debris sandy shore, D.L. Dettwiler (1, DDC). **Kenosha:** Carol Beach / Chiswaukee Prairie, 2-V-1999, under board near pond, 26-V-1999, floor w/ mouse nest, W. Suter (3, FMNH). E. of Woodworth, Benedict Prairie, 25-V-1998, mossy litter, 1-XI-1998, 9(or)29(?) -XI-1998, sod near *Silphion*, W. Suter (4, FMNH). **Marquette:** Shields, T16N-R10E-S6, 5-X-1963, D.L. Dettwiler (5, DDC). 19<sup>th</sup> Road Peatland, 43° 54.185'N, 89° 13.014'W, 9-IV-2006, Berlese sphagnum hummock fen, K. Johnson (1, WIRC). **Milwaukee:** Milwaukee, T6N-R21E-S32, 18-VI-1963, D.L. Dettwiler (1, DDC). Oak Creek, T5N-R22E-S04, 16-VII-1966, under log, D.L. Dettwiler (1, DDC). **Ozaukee:** Cedarburg, T10N-R21E-S10, 10-VII-1963, D.L. Dettwiler (1, DDC). 43° 12' 32"N, 87° 58' 58"W, 17-IX-2000, daytime swept weedy field pond area, P. Messer (1, PMC). Mequon shoreline, 43.231°N, 87.917°W, 24-V-2003, 14-VI-2003, 22-VI-2003, under drift sandy beach, P. Messer (4, PMC). Fairy Chasm, 43.198°N, 87.890°W, 30-VI-2004, under drift sandy beach, P. Messer (1, PMC). **Racine:** Renak-Polak Maple-Beech Woods SNA, 42° 48' 25"N, 87° 51' 53"W, Lindgren funnel trap 12-V to 2-VI-2005, southern mesic to wet-mesic hardwood forest, J.J. Dorshorst (1, PMC). **Richland:** Lone Rock, 43° 11' 38"N, 90° 14' 20"W, 17-III-1999, Berlese of forest litter sandy oak barrens, J.P. Gruber (1, PMC). Gotham Jack Pines Barrens, 43° 12.186'N, 90° 16.265'W, Lindgren funnel trap 28-VI-8-VII-2004, *Pinus banksiana* barrens, J.J. Dorshorst (1, PMC). **Sauk:** Spring Green Preserve, 43° 11' 58"N, 90° 3' 32"W, 29-X-2006, Berlese of leaf litter forest floor, J.P. Gruber (1, PMC). **Washington:** Pike Lake St Park, 4-VI-1976, lakeshore marsh, (1, MPM). **Waukesha:** Kettle Moraine State Forest, 21-VI-1979, (1, MPM). Range includes Illinois, Michigan, and Minnesota.

***Harpalus actiosus* Casey, 1914**

**Dane:** Wingra Lake, 3-X-1915, AC Burrill (1, WIRC). Range includes Illinois and Iowa

***Harpalus erythropus* Dejean, 1829**

**Dane:** Deerfield, 16-VII-1986, 5-VII-1994, 4-VII-1999, 30-VI-2006, blacklight, B. Buchli (4, BBC). Deerfield, 14-VII-1998, blacklight trap in woods, B. Buchli (1, PMC). Deerfield, 7-VII-2007, blacklight trap, B. Buchli (1, PMC).

Mazomanie PHG, 12-VII-1997, K. Katovich (1, PMC). Cottage Grove, 27-VI-2001, blacklight, B. Buchli (1, BBC). **Dodge:** Beaver Dam, 16-VIII-1913, W.E. Snyder (1, MPM). **Iowa:** 42° 55' 27.74"N, 90° 3' 56.55"W, 10-VIII-2006, pitfall cattle pasture, C. Gratton (1, WIRC). **Milwaukee:** Milwaukee, 14-VII-1898, (1, WIRC). Milwaukee, 3-VII-1909, H.C. Severin (1, WIRC). Milwaukee, at lights for most dates 6,31-VIII-1960, 7-IX-1960, 29-VI-1961, 1-VII-1961, 2,8,9,10-VIII-1961, 7-IX-1961, 29-VI-1962, 8-VIII-1962, 7-VIII-1966, D.L. Dettwiler (15, DDC). Sheridan Park Cudahy, 42° 57' 15"N, 87° 50' 46"W, 13-VII-2005, Hg vapor and black light in woods adjacent to Lake Michigan, J.J. Dorshorst (1, PMC). **Ozaukee:** 43.2106°N, 87.9649°W, 7-VII-2000, blacklight suburb woods, P. Messer (1, PMC). Virmond Park Beach, 43.211°N, 87.899°W, 23-VII-2005, daytime under drift sandy beach, P. Messer (1, PMC). **Wood:** 40 specimens (WIRC) collected separately by R.D. Shenefeld or W.W. Barrett in adjacent areas Griffith St. Nursery, Nekoosa, or Port Edwards from 1947 (6, 14, 16, 17, 25, 27, 29, 30-VII; 29-VIII), 1948 (11, 12, 16, 17, 24, 27-VIII), and 1949 (8, 27, 28-VII; 4, 6, 7, 9, 11, 14-VIII). Range includes all surrounding states.

***Harpalus megacephalus* LeConte, 1848**

**Bayfield:** 25-VI-1897, Wm. S. Marshall (1, WIRC). Range includes Michigan and Minnesota.

***Harpalus plenalis* Casey, 1914**

**Adams:** 43.9305°N, 89.6800°W, pitfall 11-25-VI-2007, H. Gaines (1, PMC). 43.9199°N, 89.6869°W, pitfall 13-20-VIII-2007, H. Gaines (1, PMC). 43.9245°N, 89.6485°W, pitfall 13-20-VIII-2007, H. Gaines (1, PMC). **Kewaunee:** Casco, 10-V-1970, J. Dhuey (1, PMC). Range includes Illinois, Michigan, and Minnesota.

***Selenophotus hylacis* (Say, 1823)**

**Milwaukee:** Grant Park, T5N-R22E-S12, 4-VII-1962, under beach debris, D.L. Dettwiler (2, DDC). Range includes Illinois, Michigan, and Minnesota.

***Selenophorus pedicularius* Dejean, 1829**

**Adams:** 43.9543°N, 89.6808°W, 22-VII-2005, pitfall potato field, B. Werling (1, PMC). 43.9199°N, 89.6869°W, pitfall 23-30-VII-2007, H. Gaines (1, PMC). Range includes Illinois.

***Pentagonica picticornis* Bates, 1883**

**Columbia:** Rocky Run Oak Savanna SNA, 43° 27' 24"N, 89° 20' 48"W, 17-31-VI-2005, flight intercept trap with cantharidin, J. J. Dorshorst (1, JDC). **Dane:** Deerfield, 17-VII-1990, 21-VII-1991, blacklight, B. Buchli (2, BBC). Deerfield, 1-VII-2002, blacklight, B. Buchli (1, PMC). Cottage Grove, 14-VI-2006, black light trap, B. Buchli (1, BBC). **La Crosse:** West Salem, 44° 3.916'N, 91° 4.537'W, 9-VI-2005, flight intercept trap, R. Murphy (1, WIRC). West Salem, 44° 4.082'N, 91° 4.575'W, 23-VI-2005, flight intercept trap, (1, WIRC). **Milwaukee:** Milwaukee, 8-IX-1961, at lights, D.L. Dettwiler (1, DDC). **Walworth:** Kettle Moraine Oak Opening SNA, 42° 50' 28"N, 88° 36' 16"W, 29-VI-2005, Hg vapor and blacklight oak savanna, J.J. Dorshorst (1, PMC). Range includes Illinois and Michigan.

***Atronus pubescens* (Dejean, 1828)**

**Grant:** Cassville Bluffs SNA, 42° 42' 02"N, 90° 56' 22"W, 17-IX-2008, sifted from flood debris of stream bank in hardwood forest, J.P. Gruber (6, PMC). **Sauk:** Honey Creek SNA, 43° 21' 17"N, 89° 58' 57"W, 21-VI-2008, sifted from flood debris on creek bank in hardwood forest, J.P. Gruber (1, PMC). Range includes Illinois, Iowa, and Michigan.

***Agonum picicornoides* Lindroth, 1966**

**Milwaukee:** Milwaukee, T5+6N-R22E, 1959, D.L. Dettwiler (1, DDC). Range includes Michigan.



***Agonum superioris* Lindroth, 1966**

**Douglas:** Moccasin Mike Rd Beach, Lake Superior, 46° 41' 13"N, 91° 58' 32"W, 26-V-2009, sunny sandy beach under drift log, P. Messer (1, PMC). Range includes Michigan.

***Agonum rufipes* Dejean, 1828**

**Dane:** Wm. S. Marshall, no date, (1, WIRC). 4-I-1951, (1, MPM). **Milwaukee:** Doctors Park Lake Michigan, 43° 10' 18"N, 87° 52' 52"W, 28-V-2000, under shore debris, P. Messer (1, PMC). **Wisconsin:** before 1897, F. Rauterberg (1, MPM). 15-VII-1896, (1, MPM). Range includes Illinois and Michigan.

***Platynus cincticollis* (Say, 1823)**

**Dane:** 20-IV-1900 and 20-VI-1910, Wm. S. Marshall (2, WIRC). Deerfield, 20-IV-1987, blacklight, B. Buchli (1, BBC). **Manitowoc:** Point Beach State Forest, 20-VI-1979 (1, UWO). **Milwaukee:** Milwaukee, 1959, D.L. Dettwiler (3, DDC). South Milwaukee, T5N-R22E-S1, 12, 15-VII-1960 and 31-VIII-1960, D.L. Dettwiler (3, DDC). Milwaukee, T5N-R22E-S9, 3-V-1963, under debris, D.L. Dettwiler (1, DDC). Doctors Park Beach, 43° 10' 18"N, 87° 52' 52"W, 28-V-2000, under shore debris, P. Messer (2, PMC). Lake Michigan, 43.091°N, 87.873°W, 24-VII-2002, under drift beach sand, P. Messer (1, PMC). **Ozaukee:** Mequon shoreline, 43.231°N, 87.917°W, 30-VIII-2000, 8-V-2002, 12-IV-2003, 19-IV-2003, 26-IV-2003, 28-III-2004, 3-IV-2004, 9-V-2004, 31-V-2004, 6-VII-2007, daytime under drift sandy beach, P. Messer (20, PMC). **Walworth:** Kettle Moraine SNA, 42° 50' 28"N, 88° 36' 16"W, 29-VI-2005, Hg vapor and blacklight trap oak savanna, J.J. Dorshorst (1, JDC). **Waukesha:** Genesee Lake, 1 mi. N. Dousman, 1-X-1976, G. Noonan (1, MPM). Range includes Illinois, Michigan, and Minnesota.

***Perigona nigriceps*\* (Dejean, 1831)**

**Ozaukee:** 43.2106°N, 87.9649°W, 27-VII-2000, blacklight evening suburb lawn, P. Messer (1, PMC). 43.2106°N, 87.9649°W, 31-VIII-2000, blacklight 8-10 PM wooded suburban backyard, P. Messer (1, PMC). Mequon, 43.210°N, 87.965°W, 1-IX-2002, blacklight yard field, P. Messer (1, PMC). Mequon, 43.210°N, 87.965°W, 10-VI-2005, UV light evening suburb field, P. Messer (1, PMC). Range includes Illinois.

***Leptotrachelus dorsalis* (Fabricius, 1801)**

**Dane:** Madison, ?-VI-1919 (1, WIRC). Madison, Univ. of Wis. Arboretum, 21-V-1950, (1, WIRC). Deerfield, 20-VI-1988, 13-VI-2001, 15-VI-2006, blacklight trap, B. Buchli (2, BBC, 1, PMC). Cottage Grove, 28-VI-2005, blacklight trap, B. Buchli (1, BBC). **Grant:** Nelson Dewey SP, 42° 43.889'N, 91° 0.999'W, 18-27-VIII-2004, UV trap in hardwood-conifer forest, J.J. Dorshorst (1, WIRC). **Iowa:** "Dodgville", 25-VI-1910, at lights, (1, WIRC). 21-IX-1968, lit. bluestem prairie, R. White (1, WIRC). **La Crosse:** 16-VII-1960, H. Grimek (1, HGC). **Milwaukee:** Milwaukee, 23-VIII and 12-IX-1962, at lights, D.L. Dettwiler (2, DDC). **Ozaukee:** Mequon, 43.210°N, 87.965°W, 17-V-2004, UV light suburban field, P. Messer (1, PMC). **Sauk:** Leopold Reserve, 30-V-1988, prairie, L.F. Goodman (1, WIRC). Range includes all surrounding states.

***Axinopalpus biplagiatus* (Dejean, 1825)**

**Adams:** 43.9543°N, 89.6808°W, 8-VII-2005, potato field, B. Werling (WIRC). **Bayfield:** N. Washburn Lake Superior, 46° 44' 15"N, 90° 52' 44"W, 24-V-2009, under drift narrow sandy beach, P. Messer (1, PMC). **Grant:** Blue River Sand Barrens SNA, 43° 11' 38"N, 90° 32' 14"W, pitfall 25-VI to 5-VII-2000, near mammal burrow sand barrens, J.P. Gruber (2, PMC). **Iron:** Saxon Harbor Co Park Lake Superior, 46° 33' 43"N, 90° 26' 24"W, 24-V-2009, under drift log sunny sandy beach, P. Messer (1, PMC). **Portage:** 44.43334°N, 89.60654°W, 8-VII-2005, pitfall potato field, B. Werling (2, PMC). **Sauk:** Spring Green Preserve, 43° 11' 58"N, 90° 03' 32"W, 24-VII-2004, crawling on live *Quercus* trunk



sandy oak barrens, J.P. Gruber (1, WIRC). **Sheboygan:** 43° 40' 25"N, 87° 42' 42"W, pitfall 29-VII to 16-VIII-2000, lakeshore dunes near forest edge, J.P. Gruber (1, WIRC). **Washington:** Kewaskum, 43.488°N, 88.163°W, 22-VII-2007, on outdoor wooded deck residence, D.L. Dettwiler (1, DDC). Range includes Illinois, Michigan, and Minnesota.

***Microlestes pusio* (LeConte, 1863)**

**Ozaukee:** Mequon shoreline, 43.231°N, 87.917°W, 28-V-2006, daytime under plant debris sandy lake shore, P. Messer (1, PMC). Range includes Illinois.

***Lebia divisa* LeConte, 1850**

**Iowa:** T6N-R5E-S17, 13-VII-1996, on *Onosmegium molle* 10 AM partly cloudy, A. Williams (1, WIRC). Range includes Illinois and Minnesota.

***Lebia moesta* LeConte, 1850**

**Dane:** UW Arboretum, 1-IX-1967, W.L. Krinsky (2, PMC). **Washington:** Kewaskum, 43.4877°N, 88.1626°W, 19-III-2008, underside of board in forest clearing, D.L. Dettwiler (1, DDC). Kewaskum, 43.4877°N, 88.1626°W, 24-V-2008, modified Malaise trap in forest clearing, D.L. Dettwiler (2, DDC). Range includes Illinois, Michigan, and Minnesota.

***Lebia viridipennis* Dejean, 1826**

**Dane:** Cottage Grove, 28-VI-2005, B. Buchli (1, WIRC). Missouri Rd DNR Woods, 29-VI-2005, B. Buchli (1, WIRC). Deerfield, 8-VI-1986, 18-VI-1987, 13-VI-2001, 1-VII-2006, 7-VII-2007, 11-VII-2008, 15-VII-2008, blacklight trap, B. Buchli (3, BBC, 3, PMC, 1, WIRC). **Dodge:** Waterloo, 21-VI-1988, blacklight, B. Buchli (1, WIRC). **La Crosse:** 15-IX-1973, ?-VIII-1974, H. Grimek (2, HGC). **Richland:** 1 mi W. of Gotham, T9N-R2E-S31, 1-VI-1984, sandy oak savanna-prairie, L.A. Ferge (1, WIRC). **Sauk:** Spring Green Preserve SNA, 43° 11' 52"N, 90° 03' 33"W, 8-VIII-2005, Hg vapor and blacklight in sand prairie, J.J. Dorshorst (1, PMC). **Vernon:** Stark, T13N-R2W-S29, 10-VI-1967, light trap, D.L. Dettwiler (1, DDC). Range includes all surrounding states.

***Plochionus timidus* Haldeman, 1843**

**Dane:** Deerfield, 21-VII-1991, blacklight trap, B. Buchli (1, BBC). Deerfield, 17-VII-2008, blacklight trap, B. Buchli (1, PMC). **Washington:** 43.225°N, 88.078°W, 17-X-2005, on kitchen counter farm house, D. McKinney (1, PMC). Range includes Illinois and Michigan.

## Discussion

Bousquet and Laroche (1993: Table 4), listed 374 species and subspecies of Wisconsin ground beetles. I propose that six of these taxa be removed from their total. *Cicindela cuprascens* LeConte, 1852 is removed because it was likely based on a misidentification of *Ellipsoptera macra* (Mathew L. Brust, pers. com. 2005). *Cicindela purpurea purpurea* and *C. purpurea audubonii* LeConte, 1845 were originally listed. However, *C. purpurea* populations in Wisconsin are represented by various intergrades of *C. p. purpurea* x *C. p. audubonii* rather than the pure forms of *C. p. purpurea* and *C. p. audubonii* (David L. Pearson, pers. com. 2005). Therefore, the updated checklist will count *Cicindela purpurea* once without regard to subspecies. *Cyclotrachelus sigillatus* (Say, 1823) and *Scarites lissopterus* Chaudoir, 1880 are deleted based on dubious old collection records for these two species which are known to be far removed geographically from Wisconsin. *Blethisa hudsonica* Casey, 1924 was resurrected by Goulet et al. (2009) as the common species in North America whereas true *Blethisa multipunctata aurata* Fischer von Waldeim, 1828 is limited to far northwestern North America and therefore it is removed from Wisconsin. *Bembidion cheyennense* Casey, 1918 is currently recognized as a distinct species in eastern North America. It was

previously included with *B. bifossulatum* (LeConte, 1852) (Yves Bousquet, pers. com. 2009). True *B. bifossulatum* is limited to far western North America and therefore it is removed from Wisconsin. For a time, subspecies rank *B. bifossulatum cheyennense* was used (Maddison 1993: 160). The next two species are not deleted but they currently have dubious status in Wisconsin. The introduced species, *Carabus cancellatus*, is not known to be established in Wisconsin and *Cyclotrachelus alternans* has likely been extirpated. I examined only one Wisconsin specimen (before 1900) of the latter species. Regarding *Agonum affine*, the "Wisconsin" specimen referred to in Bousquet and Larochele (1993) was based on a specimen in the Museum of Comparative Zoology later determined by Bousquet to be *Agonum trigeminum* (pers. com. 2008). However, *A. affine* has now been confirmed, based on the Bayfield county listing (Wickham 1895) and subsequent specimens that I examined from four other counties. The following three "Wisconsin" specimens in the Milwaukee Public Museum likely bear erroneous locality labels. A single specimen of *Amara alpina* (Paykull, 1790) was noted as "Patria falsa" by determiner F. Hieke, 1980. Details of this label are "Beaver Dam, III-14-1898, collr. W.E. Snyder", far from any boreo-alpine habitat expected for this species. One specimen each of *Amara fusca* Dejean, 1828 and *Amara tibialis* (Paykull, 1798) were noted as "Patria falsa; Europa" (F. Hieke, 1980).

Several carabid species (see Table 2) collected by Rauterberg (1885), mostly in southeastern Wisconsin, were inadvertently excluded by Bousquet and Larochele (1993). Rauterberg (1885) likely contains several misidentifications based on currently known geographical ranges. Consequently, while it is designated as source [v] in Table 1, it is not acknowledged as such in the body of the present list of Wisconsin ground beetles. However, a number of species (marked † in Table 2) have been corroborated by reliable Wisconsin records; those names appear in the checklist. Not accepted as valid Wisconsin species are the following two dubious records (Wickham 1895) in source [w]. *Trechus chalybeus* Dejean, 1831 has a holarctic range but in North America it is limited to the far west. *Badister pulchellus* LeConte, 1848, with range more southerly, was likely a misidentified *B. neopulchellus*.

In summary, this first state-wide survey presents literature and collection data for an additional 121 ground beetles species in Wisconsin beyond the adjusted subtotal of 368 (Bousquet and Larochele 1993). Among the 121 additional species, a 33% increase, are 87 new state records for Wisconsin. As evident in the new state record section, many of these specimens were taken by blacklight trapping in my backyard wooded field or taken by hand from turning over shore debris (mostly driftwood) locally along Lake Michigan in the semirural city of Mequon, Ozaukee county. Daytime collecting on debris-laden sandy beaches (natural intercept traps against a water barrier) was consistently the most productive method for capturing large numbers of ground beetles, usually yielding a dozen or more species in an hour of simple hand picking. Even at the 10 year mark of this Wisconsin carabid inventory project, a discovery rate of one new state record every few months is still occurring from field work and collection inventories.

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Table 2. List of carabid species collected by Rauterberg (1885) in mostly southeastern Wisconsin that failed to receive Wisconsin status by Bousquet and Larochelle (1993). The current names listed here replace several of Rauterberg's published old names.

Species List			
<i>Agonum affine</i> Kirby †	<i>Bembidion concolor</i> Kirby †	<i>Clivina ferrea</i> LeConte †	<i>Platynus brunneomarginatus</i> (Mannerheim)
<i>Agonum rufipes</i> Dejean †	<i>Bembidion dorsale</i> Say	<i>Cyclotrachelus sodalis colossus</i> (LeConte)	<i>Platynus cincticollis</i> (Say) †
<i>Amara carinata</i> (LeConte) †	<i>Bembidion fugax</i> (LeConte)	<i>Cymindis laticollis</i> Say	<i>Pterostichus castanipes</i> (Ménétriés)
<i>Amara farcta</i> LeConte	<i>Bembidion nigrum</i> Say †	<i>Harpalus fulgens</i> Csiki	<i>Pterostichus congestus</i> (Ménétriés)
<i>Amara gibba</i> (LeConte)	<i>Bembidion punctatostriatum</i> Say	<i>Harpalus spadiceus</i> Dejean	<i>Pterostichus corrusculus</i> LeConte †
<i>Amara scitula</i> Zimmermann	<i>Bembidion simplex</i> Hayward †	<i>Lebia cyanipennis</i> Dejean	<i>Pterostichus lachrymosus</i> (Newman)
<i>Amara sinuosa</i> (Casey) †	<i>Brachinus conformis</i> Dejean	<i>Leptotrachelus dorsalis</i> (Fabricius) †	<i>Pterostichus luctuosus</i> (Dejean)
<i>Anisodactylus carbonarius</i> (Say) †	<i>Chlaenius laticollis</i> Say	<i>Micraxyx distincta</i> (Haldeman)	<i>Pterostichus pinguedineus</i> (Eschscholtz)
<i>Anisodactylus similis</i> LeConte	<i>Chlaenius leucoceelis</i> Chevrolat	<i>Myas coracinus</i> (Say)	<i>Selenophorus hylacis</i> (Say) †
<i>Badister</i> "minor" LeConte † <b>unknown</b>	<i>Chlaenius p. purpuricollis</i> Randall †	<i>Noiophilus semistriatus</i> Say †	<i>Selenophorus pedicularius</i> Dejean †
<i>Badister flavipes</i> LeConte	<i>Chlaenius pusillus</i> Say †	<i>Omophon nitidum</i> LeConte	<i>Stenolophus dissimilis</i> Dejean †
<i>Badister ocellaris</i> Casey †	<i>Chlaenius solitarius</i> Say †	<i>Panagaeus fasciatus</i> Say †	<i>Trechus chalybeus</i> Dejean
<i>Badister pulchellus</i> LeConte	<i>Cicindela oregona</i> LeConte	<i>Pericompus ephippiatus</i> (Say)	

† Species that have been corroborated by reliable Wisconsin records and are also included in the checklist.

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