

AN ANNOTATED SYNONYMICAL LIST OF NORTH  
AMERICAN OXYBELUS

(Hymenoptera: Sphecidae)

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Since the appearance of the Hymenoptera Catalogue<sup>1</sup>, many changes in nomenclature have been discovered pertaining to the genus *Oxybelus* Latreille. Some of these changes were reported by Krombein<sup>2</sup> who synonymized 10 of the 65 species listed in the catalogue. We have recorded here 32 more synonyms, and have added ten species recently described. The total number of recognized species and subspecies in this list is 50<sup>3</sup>. This number represents about 50 per cent of the names which have been proposed since the first species, *quadrinotatum* Say, 1824, was described from North America.

As Pate<sup>4</sup> pointed out, the name *Oxybelus* is neuter and not masculine gender. This necessitates changing several name endings to bring them into agreement with *Oxybelus*. All the specific names known to us for this region have been cited below, including four old names which were unintentionally omitted from the Hymenoptera Catalogue.

We wish to thank K. V. Krombein of the United States National Museum and L. W. Quate of the University of Nebraska for their assistance in examining and making available various type specimens necessary for this study. Comparisons with types were made also by W. L. Brown, Jr., of the Museum of Comparative Zoology and H. L. Grant, Jr., of the Academy of Natural Sciences at Philadelphia.

Genus OXYBELUS Latreille<sup>3,4</sup>

*Oxybelus* Latreille, 1796. Précis Caract. Gén. Ins., p. 129. No species.

This generic name was apparently derived from the Greek *Oxy-* (= sharp) and *belos* (= dart or spear), the noun *belos* being of neuter gender.

*Type species: Vespa uniglumis* Linnaeus. First included species, Latreille, 1802.

<sup>1</sup> Burks, B. D. in Muesebeck, C. F. W., et al, 1951, Hymenoptera of America north of Mexico, Synoptic Catalogue, U.S. Dept. Agr., Agri-Monograph No. 2, pp. 1030-1034.

<sup>2</sup> Krombein, K. V., 1955. Bull. Brooklyn Ent. Soc. 50:70-74.

<sup>3</sup> This number does not include *O. analis bimini* Krombein from the British West Indies (1953, Amer. Mus. Nov. 1633:18).

<sup>4</sup> Pate, V. S. L., 1937. Phil. Jour. Sci. 64:376, footnote.

(For a complete generic synonymy, see the Hymenoptera Catalogue cited above, see footnote<sup>1</sup>.)

An Alphabetical List of the *Oxybelus* Species of North America<sup>5</sup>.

1. **abdominale** Baker (U.S. west of 100th Meridian, north to Idaho, Nebraska).  
*Oxybelus abdominalis* Baker, 1896. Ent. News 7:158. Type ♂, Colorado.  
*Notoglossa calligaster* Viereck, 1906. Trans. Amer. Ent. Soc. 32:214.  
 Type ♀, Kansas. Specimens from Kansas which fit Viereck's description agree with females of *abdominale* from several western states. *New Synonymy*.  
*acutus* Baker = *subulatum* Robertson  
*albomaculata* Mickel = *taenigaster* (Viereck)  
*albosignatus* Smith = *subulatum* Robertson  
*americana* Robertson = *emarginatum* Say
2. **anale** Cresson (Cuba and Nicaragua).  
*Oxybelus analis* Cresson, 1865. Proc. Ent. Soc. Phila. 5:149. Types 4 ♂ ♂, 2 ♀ ♀, Cuba. We have seen many specimens from Havana, Cuba, and one ♂ from Granada, Nicaragua.  
*apicatus* Smith = *robertsonii* Baker  
*argentarius* Mickel = *exclamans* Viereck
3. **argenteopilosum** Cameron (Western North America from Oregon and Colorado south to Tehuantepec, Mexico).  
*Oxybelus argenteopilosus* Cameron, 1891. Biologia Cent. Amer., Insecta, Hymen., Fossores 2:158. Type (no sex given), Guerrero, Mexico.
4. **argypheum** Bohart and Schlinger (California, Arizona, and Colorado).  
*Oxybelus argypheum* Bohart and Schlinger, 1956. Proc. Biol. Soc. Wash., 69:38. Type ♀, California.
5. **aztecum** Cameron (Vera Cruz, Mexico).  
*Oxybelus aztecus* Cameron, 1891. Biologia Cent. Amer., Insecta, Hymen., Fossores 2:157. Type, apparently ♀, Vera Cruz, Mexico.  
 We have not seen this species.
6. **bipunctatum** Olivier (Europe; U.S., in New England States).  
*Oxybelus bipunctatus* Olivier, 1811. Encycl. Méthod. Ins. 8:597.  
 Europe. This is apparently an introduced species.  
*Oxybelus nigroaeneus* Shuckard, 1837. Essay on Indig. Fossor. Hymen., p. 113. Type ♂, Europe.  
*Oxybelus laevigatus* Schilling, 1848. Schles. Gesell. Vaterland. Kult. Arb. im Jahre 1847, p. 105. Europe.  
*Brodiei* Provancher = *uniglumis quadrinotatum* Say

<sup>5</sup> The distribution cited in parenthesis following the specific name is based primarily on observed specimens, and does not include recorded distribution of other workers, except where no doubt of the species was evident. Also, due to the small number of workers with this genus in our region, no complete citation for each species seemed necessary. Only the species and subspecies that were considered valid have been numbered.

7. **bugabense** Cameron (Panama).  
*Oxybelus bugabensis* Cameron, 1891. *Biologia Cent. Amer.*, Insecta, Hymen., Fossores 2:156. Type ♀, Panama. We have seen one male from Corozal, Canal Zone. This species is related to *frontale* and may be synonymous with *mexicanum*.
8. **californicum** Bohart and Schlinger (Western U.S. and northern Mexico).  
*Oxybelus californicum* Bohart and Schlinger, 1956. *Pan-Pac. Ent.* 32:147. Type ♂, California.  
*calligaster* Viereck=abdominale Baker
9. **canalis** Bohart and Schlinger (Southwestern U.S., north to Utah; northern Mexico).  
*Oxybelus canalis* Bohart and Schlinger, 1956. *Pan-Pac. Ent.* 32:149. Type ♂, California.  
*carolinus* Banks=packardi Robertson
10. **cochise** Pate (Southwestern U.S. and Baja California, Mexico).  
*Oxybelus cochise* Pate, 1943. *Bull. Brooklyn Ent. Soc.* 38:93. Type ♂, New Mexico.  
*cockerelli* Baker=subcornutum Cockerell
11. **cocopa** Pate (Southern California).  
*Oxybelus cocopa* Pate, 1943. *Pan-Pac. Ent.* 19:121. Type ♂, California.  
*coloradensis* Baker=parvum Cresson
12. **cornutum** Robertson (U.S. west of 100th Meridian; Montana south to Guadalajara, Mexico).  
*Oxybelus cornutus* Robertson, 1889. *Trans. Amer. Ent. Soc.* 16:80. Type ♂, Montana.  
*Oxybelus quadricolor* Cockerell and Baker, 1896. *Psyche* 7 (supp.): 21. Type ♀, New Mexico.  
*Oxybelus polygona* Rohwer, 1909. *Trans. Amer. Ent. Soc.* 35:116. Type ♀, Colorado.
13. **crandalli** Bohart and Schlinger (Arizona and Arkansas).  
*Oxybelus crandalli* Bohart and Schlinger, 1956. *Pan-Pac. Ent.* 32:154. Type ♀, Arizona.
14. **cressonii** Robertson (Central U.S.; Utah and Texas east to Virginia, north to Michigan).  
*Oxybelus cressonii* Robertson, 1889. *Trans. Amer. Ent. Soc.* 16:83. Type ♀, Illinois.
15. **decorosum** (Mickel) (U.S. east of 100th Meridian; Vermont and Minnesota south to Florida).  
*Notoglossa decorosa* Mickel, 1916. *Trans. Amer. Ent. Soc.* 42:430. Type ♀, Nebraska.  
*defectus* Cockerell and Baker=packardi Robertson  
*delicatus* Mickel=sericeum Robertson  
*denverensis* Rohwer=subcornutum Cockerell  
*dilutus* Baker=emarginatum Say
16. **emarginatum** Say (U.S.; southern Canada, south, nearly to Mexico City).

- Oxybelus emarginatus* Say, 1837. Bost. Jour. Nat. Hist. 1:375. Type ♂, Indiana.
- Oxybelus dilutus* Baker, 1896. Ent. News 7:159. Type ♀, Colorado. The mucro of the holotype is more slender than usual, but falls within the limits of *emarginatus*. *New Synonymy*.
- Oxybelus trifidus* Cockerell and Baker, 1896. Psyche 7 (supp.):23. Type ♂, New Mexico. The species name was based on an imperfection of the mucro. *New Synonymy*.
- Notoglossa americana* Robertson, 1901. Trans. Amer. Ent. Soc. 27:204. Types ♂ ♀, Illinois. Paratypes of *americana* in the Illinois Natural History Survey collection were compared by B. D. Burks with specimens of *emarginatus* determined by K. V. Krombein and were found to be conspecific, according to a letter from Dr. Krombein. *New Synonymy*.
- Notoglossa pacifica* Rohwer, 1909. Trans. Amer. Ent. Soc. 35:119. Type ♂, Washington.
- Notoglossa minor* Mickel, 1916. Trans. Amer. Ent. Soc. 42:428. Type ♂, Nebraska. The holotype appears to be merely a small *emarginatus*. *New Synonymy*.
17. **exclamans** Viereck (Western U.S., north to S. Dakota, east to Alabama, Florida, south to Chihuahua, Mexico).
- Oxybelus exclamans* Viereck, 1906. Trans. Amer. Ent. Soc. 32:215. Type ♀, Kansas.
- Oxybelus townsendi* Rohwer and Cockerell, 1908. Ent. News 19:180. Type ♂, New Mexico. Our specimens fit the description of *exclamans* exactly. *New Synonymy*.
- Oxybelus argentarius* Mickel, 1916. Trans. Amer. Ent. Soc. 42:431. Type ♀, Nebraska. The type of *argentarius* was found to agree well with ♀ ♀ of an associated series of ♂ ♂ and ♀ ♀ of *exclamans*. *New Synonymy*.
- Oxybelus pectorosus* Mickel, 1918. Univ. Studies (Nebraska) for 1917, 17:321. Type ♂, Nebraska. The type has the mucro imperfect distally. It agrees well with a specimen compared with the type of *townsendi* by Dr. Krombein. *New Synonymy*.
- fastigatus* Mickel=taenigaster (Viereck)
- floridanus* Robertson=laetum fulvipes Robertson
18. **fossor** Rohwer and Cockerell (U.S. west of 100th Meridian, north to Nebraska; Baja California, Mexico).
- Oxybelus fossor* Rohwer and Cockerell, 1908. Ent. News 19:179. Type ♀, New Mexico.
- Oxybelus umbrosus* Mickel, 1916. Trans. Amer. Ent. Soc. 42:432. Type ♂, Nebraska.
- Oxybelus puente* Pate, 1943. Pan-Pac. Ent. 19:125. Type ♂, California. We have seen topotypical specimens of *puente* which agree with variations found in the widespread *fossor*. *New Synonymy*.
19. **frontale** Robertson (U.S. east of Rocky Mountains; Texas north to Michigan and Pennsylvania).

- Oxybelus frontalis* Robertson, 1889. Trans. Amer. Ent. Soc. 16:83.  
Types ♂ ♀, Pennsylvania, Illinois, and Texas.
- fulvipes* Robertson, see *laetum fulvipes* Robertson
- glenensis* H. S. Smith=*robertsonii* Baker
- heterolepis* Cockerell=*packardi* Robertson
- hirsutus* Baker=*robertsonii* Baker
20. **hurdi** Bohart and Schlinger (Nayarit, Mexico).  
*Oxybelus hurdi* Bohart and Schlinger, 1956. Pan-Pac. Ent. 32:155.  
Type ♂, Mexico.  
*impatiens* Smith=*uniglumis quadrinotatum* Say  
*incisura* Mickel=*parvum* Cresson
21. **inornatum** (Robertson) (Northeastern U.S., Michigan to Massachusetts, and south to North Carolina).  
*Notoglossa inornata* Robertson, 1901. Trans. Amer. Ent. Soc. 27:203.  
Types ♂ ♀, Illinois.  
*intermedium* Baker=*parvum* Cresson
22. **krombeini** Bohart and Schlinger (California).  
*Oxybelus krombeini* Bohart and Schlinger, 1956. Pan-Pac. Ent. 32:149. Type ♂, California.
23. **laetum** Say (U.S. east of 100th Meridian; Texas to North Carolina, north to Michigan and Massachusetts).  
*Oxybelus laetus* Say, 1837. Bost. Jour. Nat. Hist. 1:375. Type ♂, Illinois.
24. **laetum fulvipes** Robertson, new combination (Southeastern coastal states, north to Virginia).  
*Oxybelus fulvipes* Robertson, 1889. Trans. Amer. Ent. Soc. 16:82.  
Type ♂, Florida.  
*Oxybelus floridanus* Robertson, 1901. Trans. Amer. Ent. Soc. 27:203. Type ♂, Florida. *New Synonymy*.  
*laevigatus* Schilling=*bipunctatum* Olivier
25. **linsleyi** Bohart and Schlinger (California).  
*Oxybelus linsleyi* Bohart and Schlinger, 1956. Pan-Pac. Ent. 32:151.  
Type ♂, California.
26. **longispina** Cameron (Yucatan, Mexico).  
*Oxybelus longispina* Cameron, 1891. Biologia Cent. Amer., Insecta, Hymen.; Fossores 2:157. Type ♂, Yucatan. We have not seen this species.
27. **macswaini** Bohart and Schlinger (California and Arizona).  
*Oxybelus macswaini* Bohart and Schlinger, 1956. Pan-Pac. Ent. 32:153. Type ♂, California.
28. **majus** Mickel (Eastern U.S.; Texas to North Carolina, north to Michigan and Virginia).  
*Oxybelus major* Mickel, 1916. Trans. Amer. Ent. Soc. 42:434. Type ♂, Nebraska. The abdomen of the holotype is missing and the mucro is broken near the tip.  
*manni* Rohwer=*ventrale* Fox
29. **mexicanum** Robertson (Mexico, British Honduras, and Nicaragua).

- Oxybelus mexicanus* Robertson, 1889. Trans. Amer. Ent. Soc. 16:83.  
Type ♀, "Mexico". We have seen males from Belize, British Honduras, and San Marcos, Nicaragua.
- minor* Mickel = *emarginatum* Say  
*montanus* Robertson = *uniglumis quadrinotatum* Say  
*mottensis* Mickel = *subulatum* Robertson  
*mucronatus* Packard = *subulatum* Robertson
30. **nigrum** Robertson (Southeastern Canada; northeastern U.S., from Illinois to Minnesota and New York).  
*Oxybelus niger* Robertson, 1889. Trans. Amer. Ent. Soc. 16:82.  
Type ♂, Illinois.  
*nigroaeneus* Shuckard = *bipunctatum* Olivier  
*pacifica* Rohwer = *emarginatum* Say  
*Packardii* Dalla Torre = *subulatum* Robertson
31. **packardii** Robertson (U.S.; California to Texas and Florida, north to Ohio and Illinois).  
*Oxybelus Packardii* Robertson, 1889. Trans. Amer. Ent. Soc. 16:80.  
Types ♂ ♀, Illinois and Texas. This species was placed as a synonym of *laetum* by Krombein (1955), however, we believe that the two species are distinct, and Krombein has indicated his agreement in a letter of January 3, 1956.  
*Oxybelus Packardii* var. *texanus* Robertson, 1889. Trans. Amer. Ent. Soc. 16:81. Types ♂ ♀, Texas. *New Synonymy*.  
*Oxybelus heterolepis* Cockerell and Baker, 1896. Psyche 7 (supp.): 22. Type ♂, New Mexico. *New Synonymy*.  
*Oxybelus heterolepis* var. *defectus* Cockerell and Baker, 1896. Psyche 7 (supp.): 23. Type ♂, New Mexico. *New Synonymy*.  
*Oxybelus unicus* Mickel, 1918. Univ. Studies (Nebraska) for 1917, 17:323. Type ♀, Nebraska. *New Synonymy*.  
*Oxybelus carolinus* Banks, 1921. Ann. Ent. Soc. Amer. 14:18. Type ♀, North Carolina. On the basis of information on the holotype, furnished by Dr. Brown, we feel this species is *packardii*. *New synonymy*.
32. **paenemarginatum** (Viereck) (Kansas).  
*Notoglossa paenemarginatus* Viereck, 1906. Trans. Amer. Ent. Soc. 32:214. Type ♀, Kansas. We have not recognized this species. Perhaps it is a variety of *emarginatum* Say.
33. **paracochise** Bohart and Schlinger (Arizona and Texas; northern Mexico).  
*Oxybelus paracochise* Bohart and Schlinger, 1956. Proc. Biol. Soc. Wash. 69:37. Type ♂, Arizona.
34. **parvum** Cresson (U.S. west of 100th Meridian; Nebraska and Utah, to southern California, and south to northern Mexico).  
*Oxybelus parvus* Cresson, 1865. Proc. Ent. Soc. Phila. 4:476. Type ♀, Colorado Territory.  
*Oxybelus intermedius* Baker, 1896. Ent. News 7:160. Type ♀, Colorado. *New Synonymy*.

- Oxybelus coloradensis* Baker, 1896. Ent. News 7:160. Type ♂, Colorado. *New Synonymy*.
- Notoglossa incisura* Mickel, 1916. Trans. Amer. Ent. Soc. 42:430. Type ♂, Nebraska. *New Synonymy*.
- pectorosus* Mickel=*exclamans* Viereck
35. **pitanta** Pate (Southwestern U.S., California and Nevada to New Mexico).  
*Oxybelus pitanta* Pate, 1943. Pan-Pac. Ent. 19:123. Type ♂, California.
- polygoni* Rohwer=*cornutum* Robertson  
*puente* Pate=*fossor* Rohwer and Cockerell  
*punctatus* Baker=*subcornutum* Cockerell
36. **pyrura** (Rohwer) (Guatemala).  
*Notoglossa pyrura* Rohwer, 1914. Proc. U.S. Nat. Mus. 47:520. Type ♀, Guatemala. We have not seen this species.  
*quadricolor* Cockerell and Baker=*cornutum* Robertson  
*quadrinotatus* Say, see *uniglumis quadrinotatum* Say
37. **rancocas** Pate (New Jersey).  
*Oxybelus rancocas* Pate, 1943. Bull. Brooklyn Ent. Soc. 38:91. Type ♂ New Jersey. We have seen the paratype male of this unusual species.
38. **rejectum** Baker (Colorado).  
*Oxybelus rejectus* Baker, 1896. Ent. News 7:59. Type ♂, Colorado. Known only from the type, this may prove to be an aberrant *cornutum*.
39. **robertsonii** Baker (Northwestern U.S.; Nebraska to Oregon, south to California and Nevada).  
*Oxybelus robertsonii* Baker, 1896. Ent. News 7:156. Type ♂, Colorado.  
*Oxybelus varicoloratus* Baker, 1896. Ent. News 7:157. Type ♀, Colorado.  
*Oxybelus hirsutus* Baker, 1896. Ent. News 7:157. Type ♀, Colorado.  
*Oxybelus apicatus* H. S. Smith, 1908. Univ. Studies (Nebraska) 8:409. Type ♂, Nebraska. *New Synonymy*.  
*Oxybelus glenensis* H. S. Smith, 1908. Univ. Studies (Nebraska) 8:410. Type ♀, Nebraska. An examination of the holotypes of *apicatus* and *glenensis* in the Univ. of Nebraska collection has shown them to be the two sexes of *robertsonii*. *New Synonymy*.
40. **sericeum** Robertson (U.S., south to La Paz, Baja California, Mexico).  
*Oxybelus sericeus* Robertson, 1889. Trans. Amer. Ent. Soc. 16:81. Type ♀, Illinois.  
*Oxybelus delicatus* Mickel, 1918. Univ. Studies (Nebraska) for 1917, 17:322. Type ♂, Nebraska. We have seen the holotype of *delicatus*.
41. **sericeum crocatum** Krombein (Mississippi and Georgia).  
*Oxybelus sericeus crocatus* Krombein, 1955. Bull. Brooklyn Ent. Soc. 50:73. Type ♂, Mississippi.

42. **simile** Cresson (U.S. west of Rocky Mountains).  
*Oxybelus similis* Cresson, 1865. Proc. Ent. Soc. Phila. 4:476. Type ♀, Colorado.  
*Notoglossa striatifrons* Mickel, 1916. Trans. Amer. Ent. Soc. 42:429. Type ♂, Wyoming. H. L. Grant has furnished us with a drawing of the holotype squamae and mucro of *simile*. It agrees with the holotype of *striatifrons* except in the more rectangular mucro of the former. However, some of our specimens show variation in this respect. *New Synonymy*.
43. **sparideum** Cockerell (Southwestern U.S., Arizona to Texas and Oklahoma, south to Vera Cruz, Mexico).  
*Oxybelus sparideus* Cockerell, 1895. Trans. Amer. Ent. Soc. 22:292. Type ♂, New Mexico. We have seen specimens from Vera Cruz, Mexico, which appear to be conspecific with *sparideum*.  
*striatifrons* Mickel = *simile* Cresson  
*striatus* Baker = *subcornutum* Cockerell
44. **subcornutum** Cockerell (U.S. from Arizona to east coast, Michigan south to Chihuahua, Mexico).  
*Oxybelus subcornutus* Cockerell, 1895. Trans. Amer. Ent. Soc. 22:293. Type ♀, New Mexico.  
*Oxybelus cockerellii* Baker, 1896. Ent. News 7:61. Type ♂, Colorado. We have seen a paratype ♂ which agrees well with *subcornutum*. *New Synonymy*.  
*Oxybelus punctatus* Baker, 1896. Ent. News 7:60. Type ♂, Colorado. According to Dr. Krombein, the mucro and squamae of the holotype are somewhat deformed, but it agrees in most respects with *subcornutum*. *New Synonymy*.  
*Oxybelus denverensis* Rohwer, 1909. Trans. Amer. Ent. Soc. 35:118. Type ♀, Colorado. The description of *denverensis* falls within the limits of *subcornutum*. *New Synonymy*.  
*Oxybelus striatus* Baker, 1896. Ent. News 7:60. Type ♂, Colorado. The description of *striatus* also agrees with *subcornutum*. *New Synonymy*.
45. **subulatum** Robertson (Northeastern U.S.; Colorado to Massachusetts, north to Canada).  
*Oxybelus mucronatus* Packard, 1867. Proc. Ent. Soc. Phila. 6:436. Types ♂ ♀, Pennsylvania and Illinois. Preoccupied by Fabricius, 1793.  
*Oxybelus subulatus* Robertson, 1889. Trans. Amer. Ent. Soc. 16:79. Types ♂ ♀, Colorado, Montana, Illinois, and Pennsylvania.  
*Oxybelus albosignatus* H. S. Smith, 1908. Univ. Studies (Nebraska) 8:85. Type ♀, Nebraska. The ♀ paratype falls within the varietal limits of *subulatum*. *New Synonymy*.  
*Oxybelus Packardi* Dalla Torre, 1890. Wien. Ent. Zeit. 9:203. New name, preoccupied by Robertson, 1889.  
*Oxybelus acutus* Baker, 1896. Ent. News 7:61. Type ♀, Colorado. The species was based on the short, sharp mucro, but our specimens show this feature to be variable. *New Synonymy*.

- Oxybelus mottensis* Mickel, 1918. Univ. Studies (Nebraska) for 1917, 17:323. Type ♀, North Dakota. We have examined the holotype of *mottensis*. *New Synonymy*.
46. **taenigaster** Viereck (West Central U.S., Nebraska south to Oaxaca, Mexico).  
*Notoglossa taenigaster* Viereck, 1906. Trans. Amer. Ent. Soc. 32:215. Type ♀, Kansas.  
*Oxybelus fastigatus* Mickel, 1916. Trans. Amer. Ent. Soc. 42:433. Type ♂, Nebraska. The holotype has been examined and compared with a paratype of *albomaculata*. *New Synonymy*.  
*Notoglossa albomaculata* Mickel, 1918. Univ. Studies (Nebraska) for 1917, 17:320. Type ♂, Nebraska. We have seen a ♂ paratype which agrees with our interpretation of *taenigaster*. *New Synonymy*.  
*texanus* Robertson=*packardii* Robertson
47. **timberlakei** Bohart and Schlinger (California).  
*Oxybelus timberlakei* Bohart and Schlinger, 1956. Pan-Pac. Ent. 32:150. Type ♂, California.  
*townsendi* Rohwer and Cockerell=*exclamans* Viereck  
*trifidus* Cockerell and Baker=*emarginatum* Say  
*umbrosus* Mickel=*fossor* Rohwer and Cockerell  
*unicus* Mickel=*packardii* Robertson
48. **uniglumis quadrinotatum** Say, new combination (U.S.; southern Canada, south to Puebla, Mexico).  
*Oxybelus quadrinotatus* Say, 1824. In Keating, Narr. Long's 2nd Exped., 2 (appn.):338. Type (no sex given), Pennsylvania.  
*Oxybelus impatiens* Smith, 1856. Cat. Hymen. Brit. Mus. 4:390. Type ♀, California.  
*Oxybelus interruptus* Cresson, 1865. Proc. Ent. Soc. Phila. 4:475. Type ♀, Colorado Territory.  
*Oxybelus Brodiei* Provancher, 1883. Nat. Canad. 14:36. Type ♀.  
*Oxybelus quadrinotatus* var. *montanus* Robertson, 1889. Trans. Amer. Ent. Soc. 16:78. Types ♂ ♀, Montana. This variety is merely one of many occurring throughout the population of *quadrinotatum*. *New Synonymy*.  
*uniglumis uniglumis* (Linnaeus) occurs in Europe
49. **ventrale** Fox (Pacific Coast States; Baja California, Mexico, north to Washington).  
*Oxybelus ventralis* Fox, 1894. Proc. Calif. Acad. Sci. (2) 4:107. Type ♀, Baja California, Mexico.  
*Oxybelus manni* Rohwer, 1909. Trans. Amer. Ent. Soc. 35:117. Type ♀, Washington. The description of *manni* falls within the limits of *ventrale* specimens. *New Synonymy*.
50. **xerophilum** Bohart and Schlinger (California and Arizona).  
*Oxybelus xerophilum* Bohart and Schlinger, 1956. Pan-Pac. Ent. 32:154. Type ♂, California.



Bohart, R. M. and Schlinger, Evert I. 1956. "An annotated synonymical list of North American Oxybelus (Hymenoptera: Sphecidae)." *The Pan-Pacific entomologist* 32, 157–165.

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