

## **POLYERGUS**

**bicolor.** *Polyergus rufescens* subsp. *bicolor* Wasmann, 1901: 369 (w.q.m.) U.S.A. (Wisconsin).

**Subspecies of *rufescens*:** Wheeler, W.M. 1910g: 571; Wheeler, W.M. 1917a: 556; Emery, 1925b: 269; Wheeler, G.C. & Wheeler, E.W. 1944: 269; Buren, 1944a: 310; Smith, M.R. 1947g: 159 (redescription); Creighton, 1950a: 558; Smith, M.R. 1951a: 874; Smith, M.R. 1967: 374; Kutter, 1968b: 208.

Junior synonym of *breviceps*: Wheeler, J. 1968: 163; Smith, D.R. 1979: 1466; Bolton, 1995b: 342; Coovert, 2005: 161.

**Status as species:** Trager, 2013: 514 (redescription).

**breviceps.** *Polyergus rufescens* subsp. *breviceps* Emery, 1893i: 666 (w.) U.S.A. (South Dakota, Colorado).

**Subspecies of *rufescens*:** Wheeler, W.M. 1901c: 714; Wheeler, W.M. 1910g: 571; Santschi, 1911d: 7; Wheeler, W.M. 1914b: 56; Wheeler, W.M. 1915b: 419; Wheeler, W.M. 1917a: 555; Emery, 1925b: 269; Essig, 1926: 867; Cole, 1936a: 38; Cole, 1942: 385; Wheeler, G.C. & Wheeler, E.W. 1944: 269; Buren, 1944a: 310; Smith, M.R. 1947g: 157 (redescription); Creighton, 1950a: 558; Smith, M.R. 1951a: 874; Cole, 1954g: 285; Smith, M.R. 1958c: 161; Smith, M.R. 1967: 374; Kutter, 1968b: 208.

**Status as species:** Kownowski, 1956: 185; Wheeler, J. 1968: 163; Hunt & Snelling, 1975: 23; Francoeur, 1977b: 208; Wheeler, G.C. & Wheeler, J. 1977b: 2; Yensen, *et al.* 1977: 185; Wheeler, G.C. & Wheeler, J. 1978: 396; Smith, D.R. 1979: 1466; Allred, 1982: 504; Hölldobler, 1985: 225; Wheeler, G.C. & Wheeler, J. 1986g: 95; DuBois & LaBerge, 1988: 150; Mackay, Lowrie, *et al.* 1988: 120; Wheeler, G.C., *et al.* 1994: 308; Bolton, 1995b: 342; Mackay & Mackay, 2002: 407; Coovert, 2005: 161; Ward, 2005: 30; Trager, 2013: 511 (redescription).

**foreli.** *Polyergus rufescens* subsp. *bicolor* var. *foreli* Wheeler, W.M. 1910g: 571 (in list). *Nomen nudum*.

**fusciventris.** *Polyergus rufescens* subsp. *fusciventris* Wheeler, G.C. & Wheeler, E.W. 1944: 269. [First available use of *Polyergus rufescens* subsp. *breviceps* var. *fusciventris* Wheeler, W.M. 1917a: 555 (w.) U.S.A. (Colorado); unavailable (infrasubspecific) name (Bolton, 1995b: 342).]

As unavailable (infrasubspecific) name: Emery, 1925b: 269; Smith, M.R. 1947g: 161; Smith, M.R. 1951a: 874.

Junior synonym of *breviceps*: Creighton, 1950a: 559; Smith, M.R. 1958c: 161; Smith, D.R. 1979: 1466.

Junior synonym of *mexicanus*: Trager, 2013: 515.

**laeviceps.** *Polyergus rufescens* subsp. *laeviceps* Wheeler, W.M. 1915b: 420 (w.) U.S.A. (California).

**Subspecies of *rufescens*:** Wheeler, W.M. 1917a: 556; Emery, 1925b: 269; Smith, M.R. 1947g: 160; Creighton, 1950a: 559; Smith, M.R. 1951a: 874; Kutter, 1968b: 208; Bolton, 1995b: 342 (error).

Junior synonym of *breviceps*: Smith, D.R. 1979: 1466.

Junior synonym of *mexicanus*: Trager, 2013: 515.

**longicornis.** *Polyergus lucidus* subsp. *longicornis* Smith, M.R. 1947g: 155 (w.) U.S.A. (South Carolina).

**Subspecies of *lucidus*:** Creighton, 1950a: 557; Smith, M.R. 1951a: 874; Carter, 1962a: 8 (in list); Smith, M.R. 1967: 373; Kutter, 1968b: 208; Smith, D.R. 1979: 1467; Bolton, 1995b: 342.

**Status as species:** Trager, 2013: 525 (redescription); Deyrup, 2017: 225.

**lucidus.** *Polyergus lucidus* Mayr, 1870b: 952 (w.q.m.) U.S.A. (Connecticut).

Wheeler, G.C. & Wheeler, J. 1968: 214 (l.); Wheeler, W.M. 1903f: 659 (gynandromorph).

**Subspecies of *rufescens*:** Forel, 1886f: 200; Emery, in Dalla Torre, 1893: 214 (footnote); Emery, 1893i: 666; Wheeler, W.M. 1901c: 713; Wheeler, W.M. 1905f: 401; Wheeler, W.M. 1906b: 21; Wheeler, W.M. 1910g: 571.

**Status as species:** Mayr, 1886d: 424; Cresson, 1887: 255; Dalla Torre, 1893: 214; Wasmann, 1894: 164; Wheeler, W.M. 1915b: 419; Wheeler, W.M. 1916m: 599; Wheeler, W.M. 1917a: 555; Wheeler, W.M. 1917i: 465; Emery, 1925b: 268; Wesson, L.G. & Wesson, R.G. 1940: 102; Buren, 1944a: 310; Smith, M.R. 1947g: 152 (redescription); Creighton, 1950a: 557; Smith, M.R. 1951a: 874; Cole, 1954g: 285; Smith, M.R. 1958c: 161; Smith, M.R. 1967: 373; Kutter, 1968b: 208; Talbot, 1968: 299; Smith, D.R. 1979: 1467; Wheeler, G.C. & Wheeler, J. 1986g: 95 (in key); DuBois & LaBerge, 1988: 150; Mackay, Lowrie, *et al.* 1988: 120 (in key); Deyrup, *et al.* 1989: 99; Wheeler, G.C., *et al.* 1994: 308; Bolton, 1995b: 342; Mackay & Mackay, 2002: 408; Deyrup, 2003: 46; Coovert, 2005: 161; Ellison, *et al.* 2012: 216; Trager, 2013: 524 (redescription).

*mandarin*. *Polyergus samurai* subsp. *mandarin* Wheeler, W.M. 1927e: 4 (w.) CHINA (Beijing).

Subspecies of *samurai*: Wheeler, W.M. 1930h: 81; Chapman & Capco, 1951: 203; Bolton, 1995b: 342; Guénard & Dunn, 2012: 36.

Junior synonym of *samurai*: Trager, 2013: 522.

*mexicanus*. *Polyergus rufescens* r. *mexicanus* Forel, 1899c: 129 (w.) MEXICO (no state data).

[Type-locality probably Durango, after Trager, 2013: 517 (in text).]

**Subspecies of *rufescens*:** Wheeler, W.M. 1901c: 715; Wheeler, W.M. 1917a: 556; Emery, 1925b: 269; Bolton, 1995b: 342.

**Status as species:** Trager, 2013: 515 (redescription).

**Senior synonym of *fusciventris*:** Trager, 2013: 515.

**Senior synonym of *laeviceps*:** Trager, 2013: 515.

**Senior synonym of *umbratus*:** Trager, 2013: 515.

Material of the unavailable name *silvestrii* referred here by Trager, 2013: 515.

*montezuma*. *Polyergus rufescens* subsp. *breviceps* var. *montezuma* Wheeler, W.M. 1914b: 56 (w.q.m.) MEXICO (Hidalgo); unavailable (infrasubspecific) name.

As unavailable (infrasubspecific) name: Wheeler, W.M. 1917a: 555; Emery, 1925b: 269; Creighton, 1950a: 559.

Declared as unavailable (infrasubspecific) name: Bolton, 1995b: 342.

Material referred to *breviceps* by Creighton, 1950: 559; Smith, D.R. 1979: 1466.

Material referred to *topoffi* by Trager, 2013: 519.

*montivagus*. *Polyergus lucidus* subsp. *montivagus* Wheeler, W.M. 1915b: 419 (w.q.m.) U.S.A. (Colorado).

**Subspecies of *lucidus*:** Wheeler, W.M. 1917a: 555; Emery, 1925b: 268; Smith, M.R. 1947g: 156; Smith, M.R. 1951a: 874.

Junior synonym of *lucidus*: Creighton, 1950a: 557; Smith, M.R. 1958c: 161; Smith, D.R. 1979: 1467; Bolton, 1995b: 342; Coovert, 2005: 161.

**Status as species:** Ellison, *et al.* 2012: 217; Trager, 2013: 526 (redescription); Deyrup, 2017: 225.

*nigerrimus*. *Polyergus nigerrimus* Marikovskiy, 1963a: 110, figs. 1-7 (w.q.m.) RUSSIA (Tyva Republic).

[Also described as new by Marikovskiy, 1963b: 58.]

**Status as species:** Kupyanskaya, 1990: 208; Bolton, 1995b: 342; Trager, 2013: 523 (redescription).

*oligerus*. *Polyergus oligerus* Trager, 2013: 527, figs. 36-38 (w.q.m.) U.S.A. (Florida).

**Status as species:** Deyrup, 2017: 226.

*ruber*. *Polyergus ruber* Trager, 2013: 528, figs. 39-41 (w.q.m.) U.S.A. (Georgia, Louisiana, Maryland, Mississippi, Missouri, North Carolina).

**rufescens.** *Formica rufescens* Latreille, 1798: 44 (w.q.) FRANCE.

Schenck, 1852: 70 (m.); Forel, 1874: 137 (gynandromorph); André, 1882b: 163 (w.q.m.); Wheeler, G.C. & Wheeler, J. 1968: 214 (l).

Combination in *Polyergus*: Latreille, 1804: 179.

**Status as species:** Latreille, 1802c: 186; Latreille, 1804: 179; Jurine, 1807: 273; Gravenhorst, 1807: 286; Latreille, 1809: 127; Leach, 1815: 147; Lamarck, 1817: 96; Latreille, 1818c: 461; Losana, 1834: 324; Lepeletier de Saint-Fargeau, 1835: 198; Labram & Imhoff, 1838: pl. 35; Schenck, 1852: 70; Mayr, 1855: 384 (redescription); Nylander, 1856b: 74; Gredler, 1858: 17; Smith, F. 1858b: 57; Roger, 1859: 244; Mayr, 1861: 44 (in key); Roger, 1863b: 12; Mayr, 1863: 443; Dours, 1873: 166; Forel, 1874: 58 (in key); André, 1874: 181 (in key); Emery, 1878b: 48; Emery & Forel, 1879: 450; André, 1882b: 163 (in key); Nasonov, 1889: 14; Forel, 1892i: 307; Dalla Torre, 1893: 214; Wasmann, 1894: 164; Ruzsky, 1896: 68; Wheeler, W.M. 1901c: 704; Ruzsky, 1902d: 8; Ruzsky, 1905b: 454; Wheeler, W.M. 1906b: 21; Wasmann, 1906: 113; Bondroit, 1910: 484; Bondroit, 1911: 13; Stitz, 1914: 87; Wheeler, W.M. 1915b: 419; Emery, 1916b: 269; Wheeler, W.M. 1917a: 555; Escherich, 1917: 332; Bondroit, 1918: 41; Menozzi, 1918: 88; Finzi, 1922: 120; Kulmatycki, 1922: 85; Soudek, 1922: 87; Müller, 1923b: 147; Finzi, 1923: 4; Emery, 1925b: 269; Stärcke, 1926: 120 (in key); Karavaiev, 1927c: 288 (in key); Lomnicki, 1928: 10; Kuznetsov-Ugamsky, 1929b: 41; Karavaiev, 1931e: 218; Soudek, 1931: 18; Gösswald, 1932: 50; Santschi, 1932c: 72; Arnol'di, 1933b: 605 (in key); Grandi, 1935: 104; Karavaiev, 1936: 267 (redescription); Stitz, 1939: 369; Novák & Sadil, 1941: 108 (in key); van Boven, 1947: 182 (in key); Creighton, 1950a: 558; Consani & Zangheri, 1952: 45; Ceballos, 1956: 321; Bernard, 1967: 329 (redescription); Kutter, 1968a: 61; Kutter, 1968b: 208; Collingwood & Yarrow, 1969: 96; Baroni Urbani, 1971c: 242; Collingwood, 1971: 171; Pisarski, 1975: 53; Tarbinsky, 1976: 209 (redescription); van Boven, 1977: 134; Collingwood, 1978: 88 (in key); Arnol'di & Dlussky, 1978: 555 (in key); Collingwood, 1979: 155; Hölldobler, 1985: 225; Agosti & Collingwood, 1987a: 60; Agosti & Collingwood, 1987b: 280 (in key); Arakelian, 1994: 111; Bolton, 1995b: 342; Douwes, 1995: 98; Poldi, *et al.* 1995: 9; Espadaler, 1997b: 28; Collingwood & Prince, 1998: 27; Gallé, *et al.* 1998: 218; Czechowski, *et al.* 2002: 93; Schulz, A. & Sanetra, 2002: 167; Karaman, M.G. & Karaman, 2003: 56; Csösz, & Markó, 2005: 233; Karaman, G.S. & Karaman, 2005: 61; Bračko, 2006: 151; Markó, Sipos, *et al.* 2006: 69; Petrov, 2006: 103 (in key); Schultz, R. *et al.* 2006: 205; Bračko, 2007: 20; Seifert, 2007: 331; Werner & Wiezik, 2007: 144; Zryanin & Zryanina, 2007: 234; Gratiashvili & Barjadze, 2008: 134; Casevitz-Weulersse & Galkowsky, 2009: 486; Lapeva-Gjonova, *et al.* 2010: 59; Boer, 2010: 32; Csösz, *et al.* 2011: 59; Karaman, M.G. 2011: 97; Legakis, 2011: 36; Borowiec, L. & Salata, 2012: 530; Czechowski, *et al.* 2012: 237; Guénard & Dunn, 2012: 36; Kiran & Karaman, 2012: 15; Trager, 2013: 510 (redescription); Borowiec, L. 2014: 147; Bračko, *et al.* 2014: 20; Lebas, *et al.* 2016: 236; Radchenko, 2016: 315; Salata & Borowiec, 2018c: 48; Seifert, 2018: 345.

**Senior synonym of *testacea*:** Latreille, 1809: 127; Latreille, 1818c: 461; Nylander, 1856b: 75; Smith, F. 1858b: 57; Roger, 1859: 244; Mayr, 1863: 443; Roger, 1863b: 12; Forel, 1874: 99 (in list); Emery & Forel, 1879: 450; Dalla Torre, 1893: 214; Emery, 1925b: 269; Karavaiev, 1936: 267; Bolton, 1995b: 342; Trager, 2013: 510; Radchenko, 2016: 315.

**Senior synonym of *tianschanicus*:** Trager, 2013: 510.

**samurai.** *Polyergus rufescens* subsp. *samurai* Yano, 1911: 110, fig. 1 (w.q.) JAPAN.

Terayama, Yamaguchi & Hasegawa, 1993: 511 (ergatoid q.); Imai, 1966: 119 (k.).

**Subspecies of *rufescens*:** Teranishi, 1940: 24.

**Status as species:** Emery, 1925b: 269; Wheeler, W.M. 1927e: 3; Wheeler, W.M. 1928d: 123; Morisita, 1945: 22; Azuma, 1951: 88; Chapman & Capco, 1951: 203; Azuma, 1953: 5;

Collingwood, 1976: 305; Azuma, 1977: 117; Onoyama, 1980: 200; Kupyanskaya, 1990: 209; Morisita, *et al.* 1991: 36; Bolton, 1995b: 342; Wu, J. & Wang, 1995: 134; Imai, *et al.* 2003: 39; Radchenko, 2005b: 175; Guénard & Dunn, 2012: 36; Trager, 2013: 522 (redescription).

**Senior synonym of *mandarin*:** Trager, 2013: 522.

***sanwaldi*.** *Polyergus sanwaldi* Trager, 2013: 530, figs. 42-44 (w.q.m.) U.S.A. (New York, Indiana, Massachusetts, New Jersey, North Dakota).

***silvestrii*.** *Polyergus rufescens* subsp. *breviceps* var. *silvestrii* Santschi, 1911d: 7 (w.m.) U.S.A. (California); unavailable (infrasubspecific) name.

As unavailable (infrasubspecific) name: Emery, 1925b: 269; Smith, M.R. 1947g: 161; Creighton, 1950a: 559; Smith, M.R. 1951a: 874.

Declared as unavailable (infrasubspecific) name: Bolton, 1995b: 342.

Material referred to *breviceps* by Creighton, 1950a: 559; Smith, M.R. 1958c: 161; Smith, D.R. 1979: 1466.

Material referred to *mexicanus* by Trager, 2013: 515.

***testacea*.** *Formica testacea* Fabricius, 1804: 400 (q.) CZECH REPUBLIC (“Habitat in Moraviae”). [Unresolved junior primary homonym of *Formica testacea* Gmelin, in Linnaeus, 1790: 2804 (Bolton, 1995b: 342).]

Combination in *Polyergus*: Latreille, 1809: 127; Schenck, 1852: 130.

Status as species: Schenck, 1852: 130.

Junior synonym of *rufescens*: Latreille, 1809: 127; Latreille, 1818c: 461; Nylander, 1856b: 75; Smith, F. 1858b: 57; Roger, 1859: 244; Mayr, 1863: 443; Roger, 1863b: 12; Forel, 1874: 99 (in list); Emery & Forel, 1879: 450; Dalla Torre, 1893: 214; Emery, 1925b: 269; Karavaiev, 1936: 267; Bolton, 1995b: 342; Trager, 2013: 510; Radchenko, 2016: 315.

***texana*.** *Polyergus texana* Buckley, 1866: 170 (q.) U.S.A. (Texas).

Status as species: Cresson, 1887: 255; Dalla Torre, 1893: 215.

Unidentifiable taxon: Wheeler, W.M. 1902f: 24;

unidentifiable taxon; *incertae sedis* in Formicidae: Smith, M.R. 1951a: 875; Smith, D.R. 1979: 1467; Trager, 2013: 509;

unidentifiable taxon; *incertae sedis* in *Polyergus*: Bolton, 1995b: 342.

[Note: Wheeler, W.M. 1901c: 715 (footnote), comments that *texana*, “is probably not a *Polyergus* at all”, an opinion repeated in Trager, 2013: 509.]

***tianschanicus*.** *Polyergus rufescens* subsp. *tianschanicus* Kuznetsov-Ugamsky, 1927c: 41, figs. 1-6 (w.q.m.) KYRGYZSTAN.

Subspecies of *rufescens*: Bolton, 1995b: 342.

Junior synonym of *rufescens*: Trager, 2013: 509.

***topoffi*.** *Polyergus topoffi* Trager, 2013: 519, figs. 15-17 (w.q.) U.S.A. (Arizona), MEXICO (Hidalgo).

Material of the unavailable name *montezuma* referred here by Trager, 2013: 519.

***umbratus*.** *Polyergus rufescens* subsp. *umbratus* Creighton, 1950a: 560.

[First available use of *Polyergus rufescens* subsp. *breviceps* var. *umbratus* Wheeler, W.M. 1915b: 419 (w.) U.S.A. (California); unavailable (infrasubspecific) name.]

As unavailable (infrasubspecific) name: Wheeler, W.M. 1917a: 555; Emery, 1925b: 269; Smith, M.R. 1947g: 160; Smith, M.R. 1951a: 874.

Subspecies of *rufescens*: Smith, M.R. 1958c: 161; Smith, M.R. 1967: 374; Kutter, 1968b: 208.

Junior synonym of *breviceps*: Wheeler, J. 1968: 163; Smith, D.R. 1979: 1466; Bolton, 1995b: 342.

Junior synonym of *mexicanus*: Trager, 2013: 515.

***vinosus***. *Polyergus vinosus* Trager, 2013: 520, figs. 18-20 (w.q.m.) U.S.A. (California), MEXICO (Baja California).