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## Computer checklist of *Apoidea* (Hymenoptera) in Poland. Part 1 (excluding bibliography to distribution)

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**ABSTRACT:** During the last 200 years of investigations on Polish *Apoidea* the list of bee-species and their synonyms to computer database has been made on the basis of existing bibliography, collections and author's own research. In total 41 species of *Colletidae*, 96 species of *Andrenidae*, 104 species of *Halictidae*, 11 species of *Melittidae*, 90 species of *Megachilidae*, 89 species of *Anthophoridae* and 38 species of *Apidae* found within the Poland are listed (total 468 species).

**KEY WORDS:** checklist, *Apoidea*, *Colletidae*, *Andrenidae*, *Halictidae*, *Melittidae*, *Megachilidae*, *Anthophoridae*, *Apidae*, Poland.

### INTRODUCTION

Studies on bees in Poland have a more than 200-year-long tradition. At the end of the 90s, work was started on summarizing all existing information about the distribution of bee (*Apoidea*) species in Poland. The summary includes information from literature, the author's own and other private collections as well as museum collections concerning all species found so far in the area of Poland. For that purpose a computer data basis has been set up, in which the established record structure has been used, consideration being taken of numerical and text file codes of species (Pawlikowski 2000).

The codes have been established on the basis of the principles of systematic taxonomy (Tab.) and in agreement with the policy project of the European Union named CORINE (Dyduch-Falniowska & Zajac 1996). A list of those codes for all Central European bee species is presented below. A complete register of literature containing the distribution of bees in Poland will be presented in the second part of the computer checklist.

## CHECKLIST OF APOIDEA

- + – noted pre-1950 in Poland  
\* – noted post-1950 to the present in Poland  
= – synonym  
→ – remarks  
? – wrong or probably wrong identification
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### 1310 COLLETIDAE

#### *Hylaeus* Fabricius, 1793

= *Prosopis* Fabricius, 1804

x → Dathe ver.

- 13100010 Hy.angu \* *angustatus* (Schenck, 1859)  
13100020 Hy.annl \* *annularis* (Kirby, 1802)  
= *cervicornis* (Costa, 1858)  
= *dilatata* (Kirby, 1802)  
13100030 Hy.annu \* *annulatus* (Linnaeus, 1758)  
= *borealis* Nylander, 1852  
13100035 Hy.bifa *bifasciatus* (Jurine, 1807)  
13100040 Hy.bisi \* *bisinuatus* Förster, 1871  
= *leptocephala* (Morawitz, 1871)  
13100045 Hy.brac *brachycephalus* (Morawitz, 1868)  
13100050 Hy.brev \* *brevicornis* Nylander, 1852  
13100055 Hy.card \* *cardioscapus* Cockerell, 1924  
13100060 Hy.clyp \* *clypearis* (Schenck, 1853)  
13100070 Hy.comm \* *communis* Nylander, 1852  
13100080 Hy.conf \* *confusus* Nylander, 1852  
= *gibba confusus* Nylander sq. Warncke, 1972  
13100090 Hy.corn \* *cornutus* Curtis, 1831  
13100100 Hy.diff \* *difformis* (Eversmann, 1852)  
= *subfasciatus* (Schenck, 1867)  
13100102 Hy.duck *duckei* (Alfken, 1904)  
13100105 Hy.eury ? *euryscapa* Förster, 1871 →x  
= *spilotus* Förster, 1871  
13100110 Hy.gibb \* *gibbus* Saunders, 1850  
= *genalis* Thompson, 1872  
= *mixta* (Schenck, 1859)  
13100120 Hy.grac \* *gracilicornis* (Morawitz, 1867)  
13100122 Hy.gred \* *gredleri* Förster, 1871  
13100125 Hy.hung *hungaricus* Alfken, 1905  
= *affinis* Morawitz, 1876  
= *morawitzi* Dalla Torre, 1896  
13100130 Hy.hyal \* *hyalinatus* Smith, 1842  
13100135 Hy.lepi \* *paulus* Bridwell, 1919  
= *lepidulus* Cockerell, 1924  
= *gracilicornis* auct. nec (Morawitz, 1867)  
13100140 Hy.lute \* *moricei luteifrons* (Strand, 1909)  
= *moricella* (Bischoff, 1954)

- 13100150 Hy.nigr \* *nigritus* (Fabricius, 1798)  
= *propinquus* Nylander, 1852
- 13100160 Hy.pect \* *pectoralis* Förster, 1871  
= *kriechbaumeri* Förster, 1871  
= *palustris* Perkins auct.
- 13100165 Hy.pfan \* *pfankuchi* (Alfken, 1919)
- 13100170 Hy.pict \* *pictipes* Nylander, 1852
- 13100180 Hy.punc \* *punctatus* (Brulle, 1832)
- 13100190 Hy.punt \* *punctulatissimus* Smith, 1842
- 13100200 Hy.rink \* *rinki* (Gorski, 1852)  
= *gerstaeckeri* (Hensel, 1870)
- 13100210 Hy.sign \* *signatus* (Panzer, 1798)  
= *pratensis* (Fourcroy, 1785) (=Geoffroy auct.)
- 13100220 Hy.sinu \* *sinuatus* (Schenck, 1853)  
= *minutus* (Fabricius, 1793)
- 13100230 Hy.styr \* *styriacus* Förster, 1871
- 13100240 Hy.vari \* *variegatus* (Fabricius, 1798)
- Colletes* Latreille, 1802**
- 13100250 Co.casp \* *caspicus balticus* Alfken, 1912
- 13100260 Co.cuni \* *cunicularius* (Linnaeus, 1761)  
= *hirtus* Lepeletier, 1825
- 13100270 Co.davi \* *daviesanus* Smith, 1846
- 13100275 Co.inex \* *inexpectatus* Noskiewicz, 1936
- 13100280 Co.flor \* *floralis* Eversmann, 1852  
= *montanus* Morawitz, 1876
- 13100290 Co.fodi \* *fodiens* (Fourcroy, 1785)
- 13100300 Co.hyla \* *hylaeiformis* Eversmann, 1852
- 13100310 Co.impu \* *impunctatus* Nylander, 1852  
= *alpinus* Morawitz, 1872
- 13100320 Co.marg \* *marginatus* Smith, 1846
- 13100330 Co.nasu \* *nasutus* Smith, 1853
- 13100340 Co.punc \* *punctatus* Mocsary, 1877
- 13100350 Co.simi \* *similis* Schenck, 1853  
= *picistigma* Thomson, 1872
- 13100360 Co.succ \* *succinctus* (Linnaeus, 1758)  
= *balteatus* Nylander, 1852

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## 1320 **ANDRENIDAE**

### ***Andrena* Fabricius, 1775**

- w → Dylewska (1987) according to Osyčnjuk (1977): *assimilis gallica* Schmiedeknecht, 1883
- v → Warncke (1986): *nigriceps* (Kirby, 1802); *simillima bremensis* Alfken, 1900
- x → Osyčnjuk (1978): separated species
- y → Warncke (1986): *carbonaria* (Linnaeus, 1767) = *nigrospina* Thomson, 1872 = *pilipes* (Fabricius, 1781)
- z → Dylewska (1987): *pilipes* (Fabricius, 1781) = *carbonaria* Stöckhert, 1930  
*carbonaria* Fabricius, 1793 nec (Linnaeus, 1767) = *nigrospina* Thomson, 1870
- α → Baker (1994): *nigrospina* Thomson, 1870 = *carbonaria* auct.p.p. (incl. Dylewska) nec L.  
*spectabilis* Smith, 1853 = *carbonaria* auct.p.p. (incl. Dylewska) nec L.
- β → Celary (2008pc): spring gen. of *rosae* Panzer, 1801

- 13200010 A.aberr \* *aberrans* Eversmann, 1852  
= *ratibonensis* Stöckhert, 1924
- 13200020 A.acicu *aciculata* Morawitz, 1886  
= *tenuis* auct. nec Morawitz, 1877
- 13200030 A.aenei *aeneiventris* Morawitz, 1872
- 13200040 A.agili \* *agilissima* (Scopoli, 1770)  
= *flessae* Panzer, 1805
- 13200050 A.albop *albopunctata* (Rossi, 1792)  
= *funebri* Panzer, 1798
- 13200060 A.alfke \* *alfkenella* Perkins, 1914
- 13200070 A.angus *angustior* (Kirby, 1802)  
= *fulvata* Stöckhert, 1930
- 13200080 A.apica \* *apicata* Smith, 1847  
= *bavata* Pérez, 1902
- 13200090 A.argen \* *argentata* Smith, 1844
- 13200100 A.assim \* *assimilis* Radoszkowski, 1876 →w  
A.galli = *gallica* Schmiedeknecht, 1883
- 13200110 A.atrat *atrata* Friese, 1887
- 13200120 A.barbi \* *barbilabris* (Kirby, 1802)  
= *albicus* (Kirby, 1802)
- 13200130 A.bicol \* *bicolor* Fabricius, 1775  
= *gwynana* (Kirby, 1802)
- 13200140 A.bimac \* *bimaculata* (Kirby, 1802)  
A.moraw = *morawitzi* Thomson, 1872  
A.bluth = *blüthgeni* Stöckhert, 1930
- 13200145 A.bisul *bisulcata* Morawitz, 1878
- 13200150 A.braun *braunsiana* Friese, 1887
- 13200160 A.bucep *bucephala* Stephens, 1846
- 13200170 A.chryo *chrysopus* Pérez, 1903
- 13200180 A.chryp \* *chrysopyga* Schenck, 1853
- 13200190 A.chrys \* *chrysoceles* (Kirby, 1802)
- 13200200 A.ciner \* *cineraria* (Linnaeus, 1758)  
= *barbareae* Panzer, 1805  
= *danuvia* Stöckhert, 1950
- 13200210 A.clark \* *clarkella* (Kirby, 1802)
- 13200220 A.coita \* *coitana* (Kirby, 1802)  
= *shawella* (Kirby, 1802)
- 13200225 A.comba *combaella* Warncke, 1966
- 13200230 A.combi \* *combinata* (Christ, 1791)
- 13200240 A.congr \* *congruens* Schmiedeknecht, 1883  
= *confinis* Stöckhert, 1930
- 13200245 A.cordi *cordialis* Morawitz, 1878
- 13200250 A.curvu \* *curvungula* Thomson, 1879
- 13200260 A.decip \* *decipiens* Schenck, 1859  
= *flavilabris* Schenck, 1874
- 13200270 A.denti \* *denticulata* (Kirby, 1802)  
= *listrella* (Kirby, 1802)

- 13200280 A.disti *distinguenda* Schenck, 1871  
= *obsoleta* Pérez, 1903
- 13200290 A.dorsa \* *dorsata* (Kirby, 1802)  
= *propinqua* Schenck, 1853  
= *dubitata* Schenck, 1870
- 13200300 A.ensli \* *enslinella* Stöckhert, 1924
- 13200310 A.falsi \* *falsifica* Perkins, 1915
- 13200313 A.ferox *ferox* Smith, 1847
- 13200316 A.figur *figurata* Morawitz, 1866
- 13200320 A.flavi \* *flavipes* Panzer, 1799  
= *extricata* Smith, 1849
- 13200330 A.flore \* *florea* Fabricius, 1793  
= *austriaca* Panzer, 1798
- 13200340 A.flori \* *floricola* Eversmann, 1852  
= *ochropyga* Alfken, 1916
- 13200350 A.fucat \* *fucata* Smith, 1847
- 13200360 A.fulva \* *fulva* (Müller, 1766)  
= *fulva* (Schränk, 1781)  
= *armata* (Gmelin, 1790)
- 13200370 A.fulvg \* *fulvago* (Christ, 1791)
- 13200380 A.fulvi \* *fulvida* Schenck, 1853
- 13200390 A.fusci \* *fuscipes* (Kirby, 1802)
- 13200395 A.fusco *fuscosa* Erichson, 1835
- 13200400 A.gelri \* *gelriae* Vecht, 1927
- 13200405 A.granu *granulosa* Pérez, 1902
- 13200410 A.gravi \* *gravida* Imhoff, 1832
- 13200415 A.haedi *haedicke* Jaeger, 1934
- 13200420 A.haemo \* *haemorrhoea* (Fabricius, 1781)  
= *albicans* (Müller, 1766)
- 13200430 A.hatto \* *hattorfiana* (Fabricius, 1775)
- 13200440 A.helvo \* *helvola* (Linnaeus, 1758)
- 13200450 A.humil \* *humilis* Imhoff, 1832
- 13200455 A.hypol *hypolita* Schmiedeknecht, 1883
- 13200460 A.incis \* *incisa* Eversmann, 1852
- 13200470 A.inter \* *intermedia* Thomson, 1870
- 13200480 A.jakob \* *scotica* Perkins, 1916  
= *jakobi* Perkins, 1921  
= *carantonica* Pérez, 1902 auct.  
= *sabulosa* (Scopoli, 1763) auct.
- 13200490 A.labia \* *labialis* (Kirby, 1802)
- 13200500 A.labit \* *labiata* Fabricius, 1781  
= *cingulata* (Fabricius, 1774)
- 13200510 A.lagop *lagopus* Latreille, 1809
- 13200520 A.lappo \* *lapponica* Zetterstedt, 1838  
= *alpina* Zetterstedt, 1838
- 13200530 A.lathy \* *lathyri* Alfken, 1899
- 13200540 A.lepid \* *lepida* Schenck, 1859

- = *separanda* Schmiedeknecht, 1883  
 13200550 A.limat \* *limata* Smith, 1853  
 = *pectoralis* Schmiedeknecht, 1883  
 13200555 A.limba *limbata* Eversmann, 1852  
 13200560 A.margi \* *marginata* Fabricius, 1776  
 = *cetii* (Schrank, 1781)  
 13200565 A.mehel *mehelyi* Alfken, 1936  
 13200570 A.minua \* *minutula* (Kirby, 1802)  
 = *parvula* (Kirby, 1802)  
 13200580 A.minus \* *minutuloides* Perkins, 1914  
 13200590 A.mitis \* *mitis* Schmiedeknecht, 1883  
 13200600 A.morio + *morio* Brullé, 1832  
 13200605 A.mucid *mucida* Kriechbaumer, 1873  
 13200610 A.nana \* *nana* (Kirby, 1802)  
 13200620 A.nanae *nanaeformis* Noskiewicz, 1924  
 13200630 A.nanul \* *nanula* Nylander, 1848  
 13200640 A.nasut \* *nasuta* Giraud, 1863  
 13200650 A.nigri \* *nigriceps* (Kirby, 1802) →v  
 = *simillima* Smith, 1851 →x  
 = *bremensis* Alfken, 1900 →v  
 = *freygessneri* Alfken, 1904  
 = *marchica* Alfken, 1939  
 13200660 A.nigro \* *nigroaenea* (Kirby, 1802)  
 13200670 A.nitid \* *nitida* (Müller, 1776)  
 A.pubes = *pubescens* Olivier, 1789  
 13200680 A.nitui \* *nitidiuscula* Schenck, 1853  
 = *fulvicornis* Schenck, 1853  
 = *lucens* Imhoff, 1866  
 13200690 A.nivea \* *niveata* Friese, 1887  
 13200695 A.nobil *nobilis* Morawitz, 1873  
 13200700 A.nupti *nuptialis* Pérez, 1902  
 13200710 A.nycth \* *nycthemera* Imhoff, 1866  
 13200720 A.ovatu \* *ovatula* (Kirby, 1802)  
 = *afzeliella* (Kirby, 1802)  
 = *albofasciata* Thomson, 1870  
 13200725 A.orenb *orenburgensis* Schmiedeknecht, 1883  
 13200730 A.pande \* *pandellei* Pérez, 1895  
 13200735 A.parvi *parviceps* Kriechbaumer, 1873  
 13200740 A.pauci \* *paucisquama* Noskiewicz, 1924  
 13200745 A.pauxi *pauxilla* Stöckhert, 1935  
 13200750 A.pilip \* *pilipes* (Fabricius, 1781) →yz  
 13200755 A.carbo \* *nigrospina* Thomson, 1870 →zα  
 = *carbonaria* Fabricius, 1793 nec (Linnaeus, 1767) →zα  
 13200760 A.polit \* *polita* Smith, 1847  
 13200765 A.polir *politarsis* Pérez, 1902  
 13200770 A.ponti \* *pontica* Warncke, 1972  
 13200780 A.poten \* *potentillae* Panzer, 1809

- = *genevensis* Schmiedeknecht, 1883  
 13200790 A.praec \* *praecox* (Scopoli, 1763)  
 13200800 A.proxi \* *proxima* (Kirby, 1802)  
 = *alutacea* Stöckhert, 1942  
 13200805 A.rogen *rogenhofferi* Morawitz, 1872  
 13200810 A.rosae \* *rosae* Panzer, 1801  
 = *austriaca* v. *incompta* Schmiedeknecht, 1883  
 = *eximia* Smith, 1847  
 13200812 A.strag \* *stragulata* Illiger, 1806 →β  
 13200815 A.rosei *roseipes* Alfken, 1933  
 13200820 A.rufic \* *ruficrus* Nylander, 1848  
 = *rufitarsis* Zetterstedt, 1835  
 13200830 A.rufiz + *rufizona* Pérez, 1834  
 13200833 A.riful *rifula* Schmiedeknecht, 1883  
 13200835 A.rugul *rugulosa* Stöckhert, 1935  
 13200840 A.saxon *saxonica* Stöckhert, 1935  
 13200850 A.schen \* *schencki* Morawitz, 1866  
 = *labiata* Schenck, 1851  
 13200855 A.scita *scita* Eversmann, 1852  
 13200860 A.semil \* *semilaevis* Pérez, 1903  
 = *saundersella* Perkins, 1914  
 = *anthrisci* Blüthgen, 1925  
 13200870 A.seric + *sericata* Imhoff, 1866  
 13200880 A.simil \* *similis* Smith, 1849  
 = *ocreata* (Christ) auct.  
 13200890 A.spret \* *pusilla* Pérez, 1903  
 = *spretapusilla* Pérez, 1903: Warncke, 1967  
 13200900 A.stroh *strohmella* Stöckhert, 1928  
 13200910 A.subop \* *subopaca* Nylander, 1848  
 13200920 A.sueri \* *suerinensis* Friese, 1884  
 13200925 A.suste \* *susterai* Alfken, 1914  
 13200930 A.symph \* *symphyti* Schmiedeknecht, 1883  
 13200940 A.synad + *synadelpha* Perkins, 1914  
 13200950 A.tarax \* *taraxaci* Giraud, 1861  
 = *orientana* Warncke, 1965  
 = *rhenana* Stöckhert, 1930  
 13200960 A.tarsa \* *tarsata* Nylander, 1848  
 13200970 A.thora \* *thoracica* (Fabricius, 1775)  
 13200980 A.tibia \* *tibialis* (Kirby, 1802)  
 = *vindobonensis* Stöckhert, 1950  
 13200982 A.trans *transitoria* Morawitz, 1871  
 13200984 A.tride *tridentata* (Kirby, 1802)  
 13200985 A.trimm *trimmerana* (Kirby, 1802)  
 13200986 A.trunc *truncatilabris* Morawitz, 1878  
 13200988 A.tsche *tscheki* Morawitz, 1872  
 13200990 A.vaga \* *vaga* Panzer, 1799  
 = *ovina* Klug, 1810

- 13200995 A.varab    *variabilis* Smith, 1853  
 13201000 A.varia    \* *varians* (Rossi, 1792)  
                      = *angulosa* (Kirby, 1802)  
 13201010 A.ventr    \* *ventralis* Imhoff, 1832  
 13201020 A.virid    \* *viridescens* Viereck, 1916  
                      = *cyanescens* Nylander, 1930  
 13201030 A.wilke    \* *wilkella* (Kirby, 1802)  
                      = *convexiuscula* (Kirby, 1802)  
                      = *xanthura* (Kirby, 1802)

***Melitturga* Latreille, 1809**

- 13201040 Mg.clav    \* *clavicornis* (Latreille, 1806)

***Panurgus* Panzer, 1806**

- 13201050 Pa.bank    \* *banksianus* (Kirby, 1802)  
                      = *ater* (Panzer, 1805)  
 13201060 Pa.calc    \* *calcaratus* (Scopoli, 1763)  
                      = *lobatus* (Panzer, 1799)

***Panurginus* Nylander, 1848**

- 13201070 Pg.labi    \* *labiatus* Eversmann, 1852  
 13201080 Pg.mont    *montanus* Giraud, 1861

***Camptopoeum* Spinola, 1843**

- 13201090 Ca.fron    *frontale* (Fabricius, 1804)

**1330    *HALICTIDAE***

***Halictus* Robertson, 1918**

- 13300010 H.conf    + *confusus alpinus* Alfken, 1907  
 13300020 H.confp    \* *confusus perkinsi* Blüthgen, 1926  
 13300030 H.euryg    \* *compressus* (Walckenaer, 1802)  
                      = *eurygnathus* Blüthgen, 1931  
 13300035 H.gavar    \* *gavarnicus* Pérez, 1903  
 13300038 H.kessl    *kessleri* Bramson, 1879  
 13300040 H.leuca    \* *leucaheneus arenosus* Ebmer, 1976  
                      = *fasciatus* auct. nec Nylander, 1848  
 13300050 H.macul    \* *maculatus* Smith, 1848  
 13300060 H.quadr    \* *quadricinctus* (Fabricius, 1776)  
                      = *quadristrigatus* Latreille, 1805  
 13300070 H.rubic    \* *rubicundus* (Christ, 1791)  
 13300080 H.scabi    ? *scabiosae* (Rossi, 1790)  
 13300085 H.selad    *seladonius* (Fabricius, 1794)  
 13300090 H.semit    \* *semitectus* Morawitz, 1873  
 13300100 H.sexci    \* *sexcinctus* (Fabricius, 1793)  
 13300110 H.simpl    \* *simplex* Blüthgen, 1923  
 13300115 H.smara    *smaragdulus* Vachal, 1895  
 13300120 H.subau    \* *subauratus* (Rossi, 1792)  
 13300130 H.tetra    ? *tetrazonius* (Klug, 1817)  
 13300140 H.tumul    \* *tumulorum* (Linnaeus, 1758)  
                      = *flavipes* (Fabricius nec Fuesslin, 1775)



= *fasciatus* Nylander, 1848

***Lasioglossum* Curtis, 1833**

x → Pesenko& (2000): wrong det. - *nitidulum* (Fabricius, 1804)

y → Celary& (2003): were not recognized as a valid species only as *sexstrigatum* (Schenck, 1868)

- 13300150 L.aerat \* *aeratum* (Kirby, 1802)  
= *viridiaeneum* (Blüthgen, 1918)
- 13300160 L.albip \* *albipes* (Fabricius, 1781)
- 13300165 L.aline *alinense* (Cockerell, 1924)
- 13300170 L.bavar \* *bavaricum* (Blüthgen, 1930)
- 13300180 L.brevc \* *brevicorne* (Schenck, 1868)
- 13300190 L.brevv ? *breviventre* (Schenck, 1853)
- 13300200 L.calce \* *calceatum* (Scopoli, 1763)  
= *cylindricum* (Fabricius, 1763)
- 13300205 L.clype + *clypearis* (Schenck, 1853)
- 13300210 L.conve \* *convexiusculum* (Schenck, 1853)  
= *appropinquans* (Schenck, 1868)
- 13300220 L.costu \* *costulatum* (Kriechbaumer, 1873)
- 13300230 L.cupro + *cupromicans* (Pérez, 1903)
- 13300240 L.euboe \* *euboeense* (Strand, 1909)  
= *kirschbaumi* (Blüthgen, 1918)
- 13300250 L.frate \* *fratellum* (Pérez, 1903)  
= *niger* (Viereck, 1903)  
= *freygessneri* (Alfken, 1904)
- 13300260 L.fulvi \* *fulvicorne* (Kirby, 1802)
- 13300270 L.glabr \* *glabriusculum* (Morawitz, 1872)
- 13300280 L.intem \* *intermedium* (Schenck, 1868)
- 13300290 L.inter \* *interruptum* (Panzer, 1798)
- 13300300 L.laeve \* *laeve* (Kirby, 1802)
- 13300310 L.laevi \* *laevigatum* (Kirby, 1802)
- 13300320 L.later ? *laterale* (Brullé, 1832)
- 13300330 L.latic \* *laticeps* (Schenck, 1868)  
= *affinis* (Schenck, 1853) nec (Smith, 1853)  
= *mendax* (Alfken, 1912)
- 13300340 L.lativ \* *lativentre* (Schenck, 1853)
- 13300350 L.leucp \* *leucopum* (Kirby, 1802)
- 13300360 L.leucz \* *leucozonium* (Schranck, 1781)
- 13300370 L.limbe \* *limbellum* (Morawitz, 1876)
- 13300380 L.linea \* *lineare* (Schenck, 1868)
- 13300385 L.lisso *lissonotum* (Noskiewicz, 1925)
- 13300390 L.lucid \* *lucidulum* (Schenck, 1861)  
= *gracilis* (Morawitz, 1865)
- 13300400 L.major \* *majus* (Nylander, 1852)
- 13300410 L.malac \* *malachurum* (Kirby, 1802)  
= *longulum* (Smith, 1848)
- 13300413 L.marga *marginatum* (Brullé, 1832)
- 13300415 L.margi \* *marginellum* (Schenck, 1853)

- 13300420 L.minus \* *minutissimum* (Kirby, 1802)  
13300430 L.minuu \* *minutulum* (Schenck, 1853)  
= *semipunctulatus* (Schenck, 1869)  
13300440 L.morio \* *morio* (Fabricius, 1793)  
= *balticus* (Blüthgen, 1919)  
13300450 L.nigri \* *nigripes* (Lepeletier, 1841)  
13300460 L.nitid \* *nitidiusculum* (Kirby, 1802)  
13300470 L.nitia \* *nitidulum aeneidorsum* (Alfken, 1921)  
13300480 L.nitin \* *nitidulum nitidulum* (Fabricius, 1804)  
= *continentale* (Blüthgen, 1944)  
= *smeathmanellum* auct. nec Kirby, 1802  
13300485 L.obscu \* *obscuratum* (Morawitz, 1876)  
13300490 L.palle ? *pallens* (Brullé, 1832)  
13300500 L.parvu \* *parvulum* (Schenck, 1853)  
= *minutum* (Kirby, 1802) nec (Fabricius, 1798)  
= *semipunctum* (Schenck, 1868)  
13300510 L.pauxi \* *pauxillum* (Schenck, 1853)  
13300515 L.podol ? *podolicum* Noskiewicz, 1924 →x  
13300520 L.polit \* *politum* (Schenck, 1853)  
= *nanulum* (Schenck, 1853)  
13300530 L.prasi \* *prasinum haemorrhoidale* (Schenck, 1853)  
13300540 L.punca \* *punctatissimum* (Schenck, 1853)  
13300550 L.punci ? *puncticolle* (Morawitz, 1872)  
13300560 L.pygma ? *pygmaeum* (Schenck, 1853)  
13300570 L.quadl \* *quadrinotatum* (Schenck, 1861)  
13300580 L.quadm \* *quadrinotatum* (Kirby, 1802)  
13300590 L.quadr \* *quadrisignatum* (Schenck, 1853)  
13300600 L.rufit \* *rufitarse* (Zetterstedt, 1838)  
13300610 L.semil \* *semilucens* (Alfken, 1914)  
13300620 L.setul \* *setulellum* (Strand, 1909)  
13300630 L.setus \* *setulosum* (Strand, 1909)  
13300640 L.sexma + *sexmaculatum* (Schenck, 1853)  
13300650 L.sexnl \* *sexnotatum* (Nylander, 1852)  
13300660 L.sexnm \* *sexnotatum* (Kirby, 1802)  
= *nitidum* Panzer, 1798 nec (Müller, 1776)  
13300670 L.sexst \* *sexstrigatum* (Schenck, 1868)  
13300675 L.sabul \* *sabulosum* (Warncke, 1986) →y  
13300680 L.smeat *smeathmanellum* (Kirby, 1802)  
13300690 L.subfa \* *subfasciatum* (Imhoff, 1832)  
= *rufocinctum* (Nylander, 1852)  
13300700 L.tarsa \* *tarsatum* (Schenck, 1868)  
13300710 L.trici \* *tricinctum* (Schenck, 1874)  
13300720 L.villo \* *villosulum* (Kirby, 1802)  
13300730 L.xanth \* *xanthopum* (Kirby, 1802)  
13300740 L.zonul \* *zonulum* (Smith, 1848)  
***Sphcodes* Latreille, 1804**  
13300750 Sp.albi \* *albilabris* (Fabricius, 1793)

- = *fuscipennis* (Germar, 1819)  
 13300760 Sp.cras \* *crassus* Thomson, 1870  
 = *variegatus* Hagens, 1882  
 13300770 Sp.cris \* *cristatus* Hagens, 1882  
 13300780 Sp.croa \* *croaticus* Meyer, 1922  
 13300790 Sp.ephi \* *ephippius* (Linnaeus, 1767)  
 = *divisus* (Kirby, 1802)  
 = *rufescens* (Geoffroy in Fourcroy, 1785)  
 = *similis* Wesmael, 1865  
 13300800 Sp.geof \* *geofrellus* (Kirby, 1802)  
 = *affinis* Hagens, 1882  
 = *fasciatus* Hagens, 1882  
 13300810 Sp.ferr \* *ferruginatus* Hagens, 1882  
 13300820 Sp.gibb \* *gibbus* (Linnaeus, 1758)  
 13300830 Sp.hyal \* *hyalinatus* Hagens, 1882  
 13300840 Sp.long \* *longulus* Hagens, 1882  
 13300850 Sp.marg \* *marginatus* Hagens, 1882  
 = *atratus* Hagens, 1882  
 = *nigritulus* Hagens, 1882  
 13300860 Sp.mini \* *miniatus* Hagens, 1882  
 = *dimidiatus* Hagens, 1882  
 13300870 Sp.moni \* *monilicornis* (Kirby, 1802)  
 = *subquadratus* Smith, 1845  
 13300880 Sp.nige \* *niger* Hagens, 1874  
 13300890 Sp.pell \* *pellucidus* Smith, 1845  
 = *pilifrons* Thomson, 1870  
 13300900 Sp.punc \* *puncticeps* Thomson, 1870  
 13300910 Sp.reti \* *reticulatus* Thomson, 1870  
 13300920 Sp.rubi + *rubicundus* Hagens, 1875  
 13300930 Sp.rufi \* *rufiventris* (Panzer, 1798)  
 = *subovalis* Schenck, 1853  
 13300940 Sp.scab + *scabricollis* Wesmael, 1865  
 13300950 Sp.spin \* *spinulosus* Hagens, 1875  
***Nomioides* Schenck, 1866**  
 13300960 No.minu \* *minutissimus* (Rossi, 1790)  
 = *pulchellus* (Schenck, 1861)  
***Nomia* Latreille, 1804**  
 = *Pseudapis* W.F.Kirby, 1900  
 13300970 Na.dive ? *diversipes* (Latreille, 1806)  
 13300980 Na.femo \* *femoralis* (Pallas, 1773)  
***Dufourea* Lepeletier, 1841**  
 = *Halictoides* Nylander, 1848  
 13300990 Du.dent \* *dentiventris* (Nylander, 1848)  
 13301000 Du.iner \* *inermis* (Nylander, 1848)  
 13301010 Du.minu + *halictula* (Nylander, 1852)  
 = *minuta* auct. nec Lepeletier, 1841  
 13301020 Du.vulg \* *minuta* (Lepeletier, 1841)

- = *vulgaris* Schenck, 1861  
**Rophites Spinola, 1808**  
 = *Rhophitoides* Schenck, 1859  
 13301030 Ro.algi + *algirus* Pérez, 1895  
                   = *trispinosus* Pérez, 1903  
 13301040 Ro.canu \* *canus* Eversmann, 1852  
 13301050 Ro.hart \* *hartmani* Friese, 1902  
 13301060 Ro.quin \* *quinquespinosus* Spinola, 1808  
**Systropha Illiger, 1806**  
 13301070 Sy.curv \* *curvicornis* (Scopoli, 1770)  
 13301080 Sy.plan \* *planidens* Giraud, 1861

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**1340 MELITTIDAE**

***Melitta* Kirby, 1802**

- 13400010 Me.bude *budensis* Mocsary, 1878  
 13400020 Me.dimi *dimidiata* Morawitz, 1876  
 13400030 Me.haem \* *haemorrhoidalis* (Fabricius, 1775)  
 13400040 Me.lepo \* *leporina* (Panzer, 1799)  
 13400050 Me.nigr \* *nigricans* Alfken, 1905  
 13400060 Me.tome *tomentosa* Friese, 1900  
 13400070 Me.tric \* *tricincta* Kirby, 1802  
                   = *melanura* (Nylander, 1852)  
 13400075 Me.udmu \* *udmurtica* Sitdikov, 1986  
 13400080 Me.wank \* *wankowiczi* (Radoszkowski, 1891)

***Dasypoda* Latreille, 1802**

x → according to Radchenko & Pesenko (1989)  
 y → according to Celary (2005)

- 13400090 Da.arge \* *argentata* Panzer, 1809 →y  
           Da.brac = *braccata* Eversmann, 1852  
           Da.thor = *thoracica* Baer, 1853  
                   = *italica* Radoszkowski, 1876  
                   = *wankowiczi* Radoszkowski, 1891  
 13400100 Da.alte \* *altercator* (Harris, 1780) →x  
           Da.hirt = *hirtipes* (Fabricius, 1793)  
                   = *plumipes* (Panzer, 1797)  
 13400110 Da.suri \* *aurata* Rudow, 1881 →y  
                   = *mixta* Radoszkowski, 1887  
                   = *thomsonii* Schletterer, 1890  
                   [*suripes* (Christ, 1791) misidentification] →y

***Macropis* Panzer, 1809**

x → according to Warncke (1973) lectotyps of *M.fulvipes* (F.) and *M.labiata* (F.) are the one species (the first of these names has importance); *M.labiata* auct.nec F. has taken the new name *M.europaea* Warncke

- 13400120 Ma.euro \* *europaea* Warncke, 1973 →x  
                   = *labiata* auct. nec Fabricius, 1804  
 13400130 Ma.friv *frivaldszkyi* Mocsary, 1878

13400140 Ma.fulv \* *fulvipes* (Fabricius, 1804) →x  
= *labiata* (Fabricius, 1804)

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**1350 MEGACHILIDAE**

***Trachusa* Panzer, 1805**

13500010 Tr.byss \* *byssina* (Panzer, 1798)  
= *serratulae* Panzer, 1805

***Paraanthidiellum* Michener, 1948**

13500020 Pt.litu + *lituratum* Panzer, 1801

***Anthidium* Fabricius, 1804**

13500030 An.flor *florentinum* (Fabricius, 1775)

13500040 An.mani \* *manicatum* (Linnaeus, 1758)

13500050 An.mont \* *montanum* Morawitz, 1864

13500060 An.punc \* *punctatum* Latreille, 1809  
= *minus* Nylander, 1848

***Proanthidium* Friese, 1898**

13500070 Pr.oblo \* *oblongatum* (Illiger, 1806)  
= *oblongatum* (Latreille, 1809)

***Anthidiellum* Cockerell, 1904**

13500080 Al.stri \* *strigatum* (Panzer, 1805)

***Stelis* Panzer, 1806**

13500090 St.brev \* *breviuscula* (Nylander, 1848)

13500100 St.fran \* *franconica* Blüthgen, 1930

13500110 St.mini + *minima* Schenck, 1861

13500120 St.minu \* *minuta* Lepeletier et Serville, 1825

13500125 St.odon \* *odontopyga* Noskiewicz, 1925

13500130 St.orna \* *ornatula* (Klug, 1807)

13500140 St.phae \* *phaeoptera* (Kirby, 1802)

13500150 St.punc \* *punctulatisima* (Kirby, 1802)  
= *aterrima* (Panzer, 1798)

13500160 St.sign \* *signata* (Latreille, 1809)

***Dioxys* Lepeletier et Serville, 1825**

= *Dioxoides* Popov, 1947

13500170 Dx.trid \* *tridentata* (Nylander, 1848)

***Heriades* Spinola, 1808**

13500180 He.cren \* *crenulatus* Nylander, 1856

13500190 He.trun \* *truncorum* (Linnaeus, 1758)

***Chelostoma* Latreille, 1809**

x → Richards (1935), Banaszak & Romasenko (1998): *florisomme* (L.)

13500200 Ch.camp \* *campanularum* (Kirby, 1802)

Ch.flor = *florisomme* auct. (Linnaeus, 1758)

13500210 Ch.dist \* *distinctum* Stöckhert, 1929

13500230 Ch.fove \* *foveolatum* (Morawitz, 1868)

13500240 Ch.maxi \* *maxillosum* (Linnaeus, 1767) →x  
= *florisomme* auct. nec (Linnaeus, 1758)  
= *parumcrinitum* Alfken, 1932

- 13500250 Ch.rapu \* *rapunculi* (Lepeletier, 1841)  
 = *fuliginosum* (Panzer, 1798)  
 = *nigricorne* (Nylander, 1848)
- 13500260 Ch.vent \* *ventralis* Schletterer, 1889  
***Osmia* Panzer, 1806**  
 v → Rasmont & (1995), Banaszak & Romasenko (1998): *leaiana* (K.)  
 x → Banaszak & Romasenko (1998): *mustelina* Gerstäcker, 1869  
 = *emarginata* auct. nec (Lepeletier, 1841)  
 y → Banaszak & Romasenko (1998): syn. *Ho. adunca* (Pz.)  
 z → Banaszak & Romasenko (1998): syn. *Ac. tergestensis* (Ducke)
- 13500270 O.aurul \* *aurulenta* (Panzer, 1799)
- 13500280 O.bicol \* *bicolor* (Schrank, 1781)  
 = *fusca* (Christ, 1791)
- 13500290 O.brevi \* *brevicornis* (Fabricius, 1798)  
 = *atrocoerulea* Schilling, 1849  
 = *panzeri* Morawitz, 1869
- 13500300 O.cerin \* *cerinthidis* Morawitz, 1876
- 13500310 O.coeru \* *coerulescens* (Linnaeus, 1758)  
 = *aenea* (Linnaeus, 1761)
- 13500320 O.confu \* *confusa* Morawitz, 1868 →v
- 13500330 O.cornu \* *cornuta* (Latreille, 1805)
- 13500340 O.emarg \* *emarginata* Lepeletier, 1841  
 = *mustelina* Gerstäcker, 1869 →x
- 13500350 O.fulvi \* *fulviventris* (Panzer, 1798)
- 13500360 O.galla + *gallarum* Spinola, 1808
- 13500370 O.inerm \* *inermis* (Zetterstedt, 1838)
- 13500380 O.leaia \* *leaiana* (Kirby, 1802)  
 = *ventralis* (Panzer, 1792)  
 = *atra* Schenck, 1853  
 = *solskyi* Morawitz, 1871  
 = *truncatula* Thomson, 1872  
 = *bidens* Pérez, 1879  
 = *aduncoides* Strand, 1910 →y
- 13500390 O.marit + *maritima* Friese, 1885
- 13500400 O.nigri + *nigriventris* (Zetterstedt, 1838)  
 = *corticalis* Gerstäcker, 1869
- 13500410 O.ononi \* *ononidis* Ferton, 1897 →z  
 = *tergestensis* Ducke, 1897  
 = *wolhynica* Noskiewicz, 1922
- 13500420 O.parie \* *parietina* Curtis, 1828  
 = *angustula* (Zetterstedt, 1838)
- 13500430 O.pilic \* *pilicornis* Smith, 1846
- 13500440 O.rufa \* *rufa* (Linnaeus, 1758)  
 = *bicornis* (Linnaeus, 1758)
- 13500450 O.uncin \* *uncinata* Gerstäcker, 1869  
 = *laticeps* Thomson, 1872
- 13500460 O.xanth + *xanthomaelana* (Kirby, 1802)

= *fuciformis* Latreille, 1811

***Anthocopa* Lepeletier, 1825**

13500470 Ac.andr \* *andrenoides* (Spinola, 1808)

13500480 Ac.papa \* *papaveris* (Latreille, 1799)

13500490 Ac.vill \* *villosa* (Schenck, 1853)

= *platycera* (Gerstäcker, 1869)

***Hoplitis* Klug, 1807**

13500500 Ho.adun \* *adunca* (Panzer, 1798)

13500510 Ho.anth \* *anthocopoides* (Schenck, 1853)

= *caementaria* (Gerstäcker, 1869)

= *spinole* (Schenck, 1851)

13500520 Ho.bide \* *bidentata* (Morawitz, 1876)

13500530 Ho.leuc \* *leucomelaena* (Smith, 1844)

= *claviventris* (Thomson, 1872)

13500540 Ho.miti \* *mitis* (Nylander, 1852)

= *montivaga* (Morawitz, 1872)

13500550 Ho.parv \* *leucomelana* (Kirby, 1802)

= *parvula* (Dufour et Perris, 1840)

13500560 Ho.spin \* *spinulosa* (Kirby, 1802)

13500570 Ho.trid \* *tridentata* (Dufour et Perris, 1840)

13500580 Ho.tube ? *tuberculata* (Nylander, 1848)

***Chalicodoma* Lepeletier, 1841**

13500590 Cm.pari \* *parietina* (Geoffroy, 1785)

= *muraria* (Fabricius, 1804)

***Megachile* Latreille, 1802**

13500600 M.alpic \* *alpicola* Alfken, 1924

13500610 M.anali + *analis* Nylander, 1852

= *albicilla* Eversmann, 1852

= *kuennemani* Alfken, 1897

= *obscura* Alfken, 1897

13500620 M.apica \* *apicalis* Spinola, 1808

13500630 M.argen \* *argentata* (Fabricius, 1793)

= *leachella* Curtis, 1828

13500640 M.bomby\* *bombycina* (Pallas) in Radoszkowski, 1874

= *maxillosa* Pallas,

13500650 M.centu \* *centuncularis* (Linnaeus, 1758)

13500660 M.circu \* *circumcincta* (Kirby, 1802)

= *fennica* Niemelä, 1936

13500670 M.erice \* *ericetorum* Lepeletier, 1841

13500680 M.genal \* *genalis* Morawitz, 1880

13500690 M.lagop \* *lagopoda* (Linnaeus, 1761)

13500700 M.lappo \* *lapponica* Thomson, 1872

13500710 M.ligni \* *ligniseca* (Kirby, 1802)

13500720 M.maack ? *maacki* Radoszkowski, 1874

13500730 M.marit \* *maritima* Kirby, 1802

13500740 M.nigri \* *nigriventris* Schenck, 1867

13500750 M.octos + *octosignata* Nylander, 1852

- 13500760 M.pilid \* *pilidens* Alfken, 1924  
 13500770 M.pyren + *pyrenaea* Pérez, 1890  
 13500780 M.rotun \* *rotundata* (Fabricius, 1787)  
                   = *pacifica* (Panzer, 1798)  
 13500790 M.versi \* *versicolor* Smith, 1844  
 13500800 M.willu \* *willughbiella* (Kirby, 1802)  
                   = *janssoni* Alfken, 1926

***Coelioxys* Latreille, 1809**

- 13500810 Cx.afra \* *afra* Lepeletier, 1841  
                   = *coronata* Förster, 1853  
 13500820 Cx.alat \* *alata* Förster, 1853  
 13500830 Cx.auro \* *aurolimbata* Förster, 1853  
 13500840 Cx.brev \* *brevis* Eversmann, 1852  
                   = *erythropyga* Förster, 1853  
 13500850 Cx.cono \* *conoidea* (Illiger, 1806)  
                   = *punctata* Lepeletier, 1841  
                   = *trigonus* Schrank, 1793  
                   = *vectis* Curtis, 1831  
 13500860 Cx.elon \* *elongata* Lepeletier, 1841  
                   = *simplex* Nylander, 1852  
 13500870 Cx.iner \* *inermis* (Kirby, 1802)  
                   = *acuminata* Nylander, 1852  
 13500880 Cx.lanc \* *lanceolata* Nylander, 1852  
 13500890 Cx.mand \* *mandibularis* Nylander, 1848  
 13500900 Cx.poly \* *polycentris* Förster, 1853  
 13500910 Cx.quad \* *quadridentata* (Linnaeus, 1758)  
                   = *acuta* Nylander, 1848  
                   = *conica* (Linnaeus, 1758)  
 13500920 Cx.rufe \* *rufescens* Lepeletier et Serville, 1825  
                   = *apiculata* Nylander, 1848  
                   = *carinata* Schenck, 1867?  
                   = *hebescens* Nylander, 1848  
                   = *umbrina* Smith, 1843  
 13500930 Cx.rufo \* *rufocaudata* Smith, 1854  
                   = *octodentata* Lepeletier, 1841  
                   = *ruficaudata* Lepeletier, 1841

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**1360 ANTHOPHORIDAE**

***Nomada* Scopoli, 1770**

- w → Schwarz (1986): *sheppardana minuscula* Noskiewicz, 1930  
 x → Schwarz (1986): *ochrostoma* Zetterstedt, 1838 nec (Kirby, 1802)  
                   = *alboguttata* Herrich-Schäffer, 1839  
 y → Osyčnjuk (1978): *alboguttata* Herrich-Schäffer, 1839  
                   = *quinespinosa* Thomson, 1870  
 C1 → Celary (1995): *ochrostoma* Zetterstedt, 1838 nec (Kirby, 1802)  
                   (summer gen. - according to Westrich)  
 C2 → Celary(p.com.): *fucata* Panzer, 1798



- C3 → Celary (1995): *atroscutellaris* Strand, 1921  
 C4 → Celary (1995): *roberjeotiana* Panzer, 1799  
 C5 → Celary(p.com.): wrong det. nec Celary - *stigma* Fabricius, 1804  
 C6 → Celary (1995): wrong det. - *ochrostoma* Zetterstedt, 1838  
 C7 → Celary (1995): wrong locus for Poland
- 13600010 N.argen \* *argentata* Herrich-Schäffer, 1839  
                   = *brevicornis* (Mocsary) in Schmiedeknecht, 1882
- 13600020 N.armat \* *armata* Herrich-Schäffer, 1839  
                   = *cincticornis* Nylander, 1848
- 13600030 N.atros \* *atroscutellaris* Strand, 1921  
           N.immac = *immaculata* Morawitz, →C3
- 13600050 N.bifas \* *bifasciata* Olivier, 1811 →C2  
                   *bifasciata fucata* Panzer, 1798  
                   = *pusilla* Lepeletier, 1841 nec Rossi, 1792  
                   = *pusilla lepeletieri* Pérez, 1884
- 13600055 N.bispi \* *bispinosa* (Mocsary, 1894)
- 13600060 N.braun + *braunsiana* Schmiedeknecht, 1882
- 13600070 N.caste \* *castellana* Dusmet, 1913  
                   = *baeri* Stöckhert, 1930 →C6
- 13600080 N.cinct \* *cinctiventris* Friese, 1920  
                   = *ferruginata* auct. nec (Linnaeus, 1767)  
                   = *stigma* auct. nec Fabricius, 1804  
                   = *integra* Brulle, 1832  
                   = *ferruginata* var. *cinctiventris* Friese, 1920
- 13600090 N.conju \* *conjugens* Herrich-Schäffer, 1839  
                   = *dalla-torreana* Schmiedeknecht, 1882
- 13600100 N.disti + *distinguenda* Morawitz, 1874
- 13600110 N.emarg \* *emarginata* Morawitz, 1877
- 13600120 N.erran + *errans* Lepeletier, 1841
- 13600130 N.fabri \* *fabriciana* (Linnaeus, 1767)
- 13600135 N.facil \* *facilis* Schwarz, 1967
- 13600140 N.femor \* *femoralis* Morawitz, 1869
- 13600150 N.ferru \* *ferruginata* (Linnaeus, 1767)  
                   = *lateralis* Panzer, 1798  
                   = *xanthosticta* (Kirby, 1802)
- 13600160 N.flava \* *flava* Panzer, 1798
- 13600170 N.flavo \* *flavoguttata* (Kirby, 1802)  
                   = *minuta* auct.
- 13600180 N.flavp \* *flavopicta* (Kirby, 1802)  
                   = *jacobaeae* auct. nec Panzer, 1799  
                   = *solidaginis* Illiger, 1806
- 13600190 N.fucat \* *fucata* Panzer, 1798
- 13600200 N.fulvi \* *fulvicornis* Fabricius, 1793  
           N.lineo = *lineola* Panzer, 1798
- 13600205 N.furva \* *furva* Panzer, 1798
- 13600210 N.fusci \* *fuscicornis* Nylander, 1848
- 13600220 N.goode \* *goodeniana* (Kirby, 1802)

- = *succincta* auct. nec Panzer, 1798  
 13600230 N.guttu \* *guttulata* Schenck, 1859  
 13600250 N.itali \* *italica* Dalla-Torre et Friese, 1894  
 13600260 N.lathb \* *lathburiana* (Kirby, 1802)  
 = *alternata* (Kirby, 1802)  
 = *marshamella* auct. nec (Kirby, 1802)  
 13600270 N.leuco \* *leucophthalma* (Kirby, 1802)  
 = *borealis* Zetterstedt, 1838  
 13600280 N.marsh \* *marshamella* (Kirby, 1802)  
 = *alternata* auct. nec (Kirby, 1802)  
 13600300 N.moesc \* *moeschleri* Alfken, 1912  
 13600320 N.mutab \* *mutabilis* Morawitz, 1870  
 13600330 N.nobil \* *nobilis* Herrich-Schäffer, 1839  
 13600340 N.obscu + *obscura* Zetterstedt, 1838  
 13600350 N.obtus \* *obtusifrons* Nylander, 1848  
 13600360 N.ochro \* *ochrostoma* Zetterstedt, 1838 nec (Kirby, 1802) →x  
 N.albog = *alboguttata* Herrich-Schäffer, 1839 →y  
 N.bacca = *baccata* Smith, 1844 →C1  
 = *laeta* Thomson, 1870  
 = *quinespinosa* Thomson, 1870  
 13600370 N.opaca + *opaca* Alfken, 1913  
 13600380 N.panze \* *panzeri* Lepeletier, 1841  
 = *glabella* Thomson, 1870  
 = *amurensis* Radoszkowski, 1876  
 = *ruficornis* auct. nec (Linnaeus, 1758)  
 13600390 N.rhena + *rhenana* Morawitz, 1872  
 13600400 N.rober \* *roberjeotiana* Panzer, 1799  
 N.monta = *montana* (Mocsary, 1894) →C4  
 = *tormentillae* Alfken, 1901  
 13600410 N.rufic \* *ruficornis* (Linnaeus, 1758)  
 N.bifid = *bifida* Thomson, 1872  
 13600420 N.rufip \* *rufipes* Fabricius, 1739  
 = *fennica* Alfken, 1924  
 = *solidaginis* auct. nec Panzer, 1799  
 13600430 N.sexfa \* *sexfasciata* Panzer, 1799  
 13600440 N.shepp \* *sheppardana* (Kirby, 1802) →C5  
 N.dalii = *dalii* Curtis, 1832  
 N.minus = *minuscula* Noskiewicz, 1930 →w  
 = *furva* auct. nec Panzer, 1798  
 13600450 N.signa \* *signata* Jurine, 1807  
 13600460 N.simil + *similis* Morawitz, 1872  
 13600470 N.stigm \* *stigma* Fabricius, 1804  
 = *cinnabarina* Morawitz, 1872  
 = *ferruginata* auct. nec (Linnaeus, 1767)  
 = *villipes* Stöckhert in Schmiedeknecht, 1930  
 13600480 N.stria \* *striata* Fabricius, 1793  
 = *hillana* (Kirby, 1802)

- = *ochrostoma* (Kirby, 1802)  
 = *punctiscuta* Thomson, 1870  
 13600490 N.symph \* *symphyti* Stöckhert, 1930  
 13600500 N.trape *trapeziformis* Schmiedeknecht, 1882 →C7  
 13600505 N.tride \* *tridentirostris* Dours, 1873  
 13600510 N.trisp \* *trispinosa* Schmiedeknecht, 1882  
 13600520 N.zonat \* *zonata* Panzer, 1798  
***Ammobates* Latreille, 1809**  
 13600530 Am.punc \* *punctatus* (Fabricius, 1804)  
***Biastes* Panzer, 1806**  
 13600540 Bi.brev \* *brevicornis* (Panzer, 1798)  
 13600550 Bi.emar \* *emarginatus* (Schenck, 1853)  
 13600560 Bi.trun \* *truncatus* (Nylander, 1848)  
***Epeolus* Latreille, 1802**  
 13600570 Ep.cruc \* *cruciger* (Panzer, 1799)  
 = *rufipes* Thomson, 1870  
 = *marginatus* Bischoff, 1930  
 13600580 Ep.glac + *glacialis* Alfken, 1913  
 = *alpinus* Bischoff, 1930  
 13600590 Ep.schu + *schummeli* Schilling, 1849  
 13600600 Ep.vari \* *variegatus* (Linnaeus, 1758)  
 = *productus* Thomson, 1870  
 = *notatus* auct. nec Christ, 1891  
***Epeoloides* Giraud, 1863**  
 13600610 Ed.coec \* *coecutiens* (Fabricius, 1775)  
***Pasites* Jurine, 1807**  
 13600620 Pe.macu + *maculatus* Jurine, 1807  
***Tetralonia* Spinola, 1838**  
 13600630 Te.dent \* *dentata* (Klug, 1835)  
 13600640 Te.hung \* *hungarica* (Friese, 1895)  
 13600650 Te.macr \* *macroglossa* Illiger, 1806  
 = *malvae* auct. nec (Rossi, 1790)  
 13600660 Te.sali + *salicarie* (Lepeletier, 1841)  
***Eucera* Scopoli, 1770**  
 13600665 Eu.cine *cineraria* Eversmann, 1852  
 13600670 Eu.inte \* *interrupta* Baer, 1850  
 13600680 Eu.long \* *longicornis* (Linnaeus, 1758)  
 = *difficilis* Dufour, Friese et Pérez, 1896  
 13600685 Eu.poll \* *pollinosa* (Smith, 1854)  
 = *chrysopyga* Pérez, 1874  
 = *polonica* Ruzskowski, 1994  
 13600690 Eu.tube \* *tuberculata* (Fabricius, 1793)  
 = *longicornis* Friese, 1896? nec (Linnaeus, 1758)  
***Clisodon* Patton, 1879**  
 13600700 Cl.furc \* *furcatus* (Panzer, 1799)  
***Amegilla* Friese, 1897**  
 = *Alfkenella* Börner, 1919

- 13600710 Ag.quad \* *quadrifasciata* (Villers, 1789)  
***Anthophora Latreille, 1803***  
 = *Podalirius* Latreille, 1802  
 = *Megilla* Fabricius, 1804  
 x → Brooks (1988) & Day (1979): is a synonym of a species of *Bombus* and probably *subterraneus*
- 13600720 At.plum \* *plumipes* (Pallas, 1772)  
 At.acer = *acervorum* auct. (Linnaeus, 1758) →x  
 = *pilipes* (Fabricius, 1775)  
 = *hirsuta* (Fabricius, 1787)
- 13600730 At.aest \* *aestivalis* (Panzer, 1801)
- 13600740 At.bore + *borealis* Morawitz, 1864
- 13600750 At.pari \* *parietina* (Fabricius, 1793)  
 = *plagiata* (Illiger, 1806)
- 13600760 At.pube \* *pubescens* (Fabricius, 1781)
- 13600770 At.quad \* *quadrimaculata* (Panzer, 1798)  
 = *vulpina* (Panzer, 1798 nec Christ, 1791)
- 13600780 At.retu \* *retusa* (Linnaeus, 1758)  
***Heliophila Klug, 1807***
- 13600790 Hp.bima \* *bimaculata* (Panzer, 1798)  
 = *rotundata* (Panzer, 1798)  
***Melecta Latreille, 1802***
- 13600800 Mc.luct \* *luctuosa* (Scopoli, 1170)
- 13600810 Mc.punc \* *punctata* (Fabricius, 1775)  
 = *albifrons* (Förster, 1771)  
 = *armata* (Panzer, 1799) nec Gmelin, 1790
- 13600820 Mc.trun + *truncata* (Pérez, 1883)  
***Thyreus Panzer, 1806***  
 = *Crocisa* Jurine, 1807
- 13600830 Th.hist \* *histrionicus* (Illiger, 1806)  
 = *major* (Morawitz, 1875)
- 13600840 Th.orba \* *orbatus* Lepeletier, 1841  
 = *scutellaris* (Fabricius, 1781)  
***Ceratina Latreille, 1802***
- 13600850 Ce.cucu \* *cucurbitina* (Rossi, 1792)
- 13600860 Ce.cyan \* *cyanea* (Kirby, 1802)  
***Xylocopa Latreille, 1802***
- 13600870 Xy.valg \* *valga* Gerstäcker, 1872
- 13600880 Xy.viol + *violacea* (Linnaeus, 1758)

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**1370 APIDAE**

***Bombus Latreille, 1802***

x → Osycnjuk (1978): *terrestris* (L.) var. *cryptarum* (F.)

- 13700001 B.argil *argillaceus* (Scopoli, 1763)
- 13700005 B.armen *armeniacus* Radoszkowski, 1877  
 = *scythes* Skorikov, 1925
- 13700010 B.confu \* *confusus* Schenck, 1859

- 13700020 B.cullu *cullumanus cullumanus* (Kirby, 1802)  
 B.culls *cullumanus serrisquama* Morawitz, 1888  
 = *silantjewi* Morawitz, 1892
- 13700030 B.distl \* *distinguendus* Morawitz, 1869  
 = *elegans* Seidl, 1837
- 13700040 B.mesom\* *mesomelas* Gerstäcker, 1869  
 = *agrorum* (Schrenk, 1781)
- 13700050 B.fragr + *fragrans* (Pallas, 1771)
- 13700060 B.horto \* *hortorum* (Linnaeus, 1758)
- 13700070 B.humil \* *humilis* Illiger, 1806  
 = *solstitialis* Jurine, 1807  
 = *variabilis* Schmiedeknecht, 1878  
 = *helferanus* Seidl, 1837
- 13700080 B.hypno \* *hypnorum* (Linnaeus, 1758)
- 13700090 B.jonel \* *jonellus* (Kirby, 1802)
- 13700100 B.laesu \* *laesus* (Morawitz, 1875)  
 \* *laesus mocsaryi* Kriechbaumer, 1877  
 B.macul ?= *maculidorsis* (Skorikov, 1922)
- 13700110 B.lapid \* *lapidarius* (Linnaeus, 1758)
- 13700120 B.lucor \* *lucorum* (Linnaeus, 1761)  
 ?= *cryptarum* (Fabricius, 1775) →x  
 = *lucocryptarum* Ball, 1914  
 B.magnu ?= *magnus* Vogt, 1911
- 13700150 B.musco \* *muscorum* (Fabricius, 1775)  
 = *cognatus* auct. nec Stephens, 1846
- 13700160 B.pascu \* *pascuorum* (Scopoli, 1763)  
 = *agrorum* (Fabricius, 1787 nec Schrank, 1781)
- 13700170 B.pomor \* *pomorum* (Panzer, 1805)
- 13700180 B.prato \* *pratorum* (Linnaeus, 1758)
- 13700190 B.pyren \* *pyrenaeus* Pérez, 1879
- 13700200 B.ruder \* *ruderarius* (Müller, 1776)  
 = *derhamellus* (Kirby, 1802)  
 = *rajellus* (Kirby, 1802)
- 13700210 B.rudet \* *ruderatus* (Linnaeus, 1775)
- 13700220 B.schre \* *schrencki* Morawitz, 1869
- 13700230 B.siche + *sichelii* Radoszkowski, 1859
- 13700235 B.semen \* *semenoviellus* Skorikov, 1910
- 13700240 B.soroe \* *soroensis* (Fabricius, 1776)  
 B.soros \* *soroensis soroensis* (Fabricius, 1776)  
 B.sorop \* *soroensis proteus* Gerstäcker, 1869
- 13700250 B.subte \* *subterraneus* (Linnaeus, 1758)  
 = *latreillellus* (Kirby, 1802)
- 13700260 B.sylva \* *sylvarum* (Linnaeus, 1761)
- 13700270 B.terre \* *terrestris* (Linnaeus, 1758)
- 13700280 B.veter \* *veteranus* (Fabricius, 1793)  
 = *arenicola* Thomson, 1872  
 = *equestris* auct. nec Fabricius, 1793

13700290 B.wurfl \* *wurfleini* Radoszkowski, 1859  
= *mastrucatus* Gerstäcker, 1869

***Psithyrus* Lepeletier, 1832**

13700300 Ps.barb \* *barbutellus* (Kirby, 1802)  
= *saltuum* (Illiger, 1806)

13700310 Ps.bohe \* *bohemicus* (Seidl, 1837)  
= *distinctus* Pérez, 1884

13700320 Ps.camp \* *campestris* (Panzer, 1801)

13700330 Ps.flav \* *flavidus* (Eversmann, 1852)  
= *lissonurus* (Thomson, 1872)

13700340 Ps.maxi \* *maxillosus* (Klug, 1817)

13700360 Ps.norv \* *norvegicus* Sparre-Schneider, 1918

13700370 Ps.rupe \* *rupestris* (Fabricius, 1793)

13700380 Ps.quad \* *quadricolor* Lepeletier, 1832

Ps.quag \* *quadricolor globosus* Eversmann, 1852  
= *globosus* Eversmann, 1852

Ps.meri \* *quadricolor meridionalis* Richards, 1928  
= *meridionalis* Richards, 1928

13700390 Ps.sylv \* *sylvestris* Lepeletier, 1832  
= *silvestris* auct.

13700400 Ps.vest \* *vestalis* (Fourcroy, 1785)

***Apis* Linnaeus, 1758**

y →synonym common used in Poland and several others european countries

13700410 Ap.mell \* *mellifera* Linnaeus, 1758

= *mellifica* Linnaeus, 1761 →y

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Table. Numerical cods of taxons of *Apoidea* and other *Hymenoptera*, *Apocrita*  
Tabela. Numeryczne kody taksonów *Apoidea* i innych *Hymenoptera*, *Apocrita*

Code	Taxon	Remarks
	<i>APOCRITA, PARASITICA</i>	Taxonomy according to Richards & Davies (1977)
1	<i>Trigonoidea</i>	
2	<i>Ichneumonoidea</i>	
3	<i>Evanioidea</i>	
4	<i>Cynipoidea</i>	
5	<i>Chalcidoidea</i>	
6	<i>Serphoidea</i>	
	<i>APOCRITA, ACULEATA</i>	Taxonomy according to Richards & Davies (1977)
7	<i>Bethyloidea</i>	
710	<i>Bethylidae</i>	
720	<i>Dryinidae</i>	
730	<i>Embolemidae</i>	
740	<i>Chrysididae</i>	
742	<i>Cleptinae</i>	
8	<i>Scolioidea</i>	
810	<i>Scoliidae</i>	
820	<i>Tiphiidae</i>	
830	<i>Mutillidae</i>	
832	<i>Methocinae</i>	
833	<i>Myrmosinae</i>	
843	<i>Sapygidae</i>	
9	<i>Formicoidea</i>	
910	<i>Myrmicidae</i>	
920	<i>Poneridae</i>	
930	<i>Dolichoderidae</i>	
940	<i>Formicidae</i>	
10	<i>Pompiloidea</i>	
1000	<i>Pompilidae</i>	
1002	<i>Ceropalinae</i>	
11	<i>Vespoidea</i>	Taxonomy according to Carpenter (1982, 1987)
1112	<i>Masarinae</i>	
1113	<i>Eumeninae</i>	
1115	<i>Vespinae</i>	
1116	<i>Polistinae</i>	
12	<i>Sphecoidea</i>	
1200	<i>Sphecidae</i>	Taxonomy according to Bohart & Menke (1976)
13	<i>Apoidea</i>	Taxonomy according to Michener (1944, 1964)
1310	<i>Colletidae</i>	
1320	<i>Andrenidae</i>	
1330	<i>Halictidae</i>	
1340	<i>Melittidae</i>	
1350	<i>Megachilidae</i>	
1360	<i>Anthophoridae</i>	
1370	<i>Apidae</i>	

**Komputerowa lista pszczół (*Hymenoptera: Apoidea*) Polski.  
Część 1 (bez bibliografii o rozmieszczeniu)**

**STRESZCZENIE**

Badania nad pszczołami Polski mają już ponad 200-letnią tradycję. Z końcem lat dziewięćdziesiątych przystąpiono do zestawienia wszystkich informacji o rozmieszczeniu gatunków pszczół (*Apoidea*) w Polsce. W zestawieniu są uwzględnione informacje literaturowe, kolekcje własne, inne prywatne oraz muzealne o wszystkich gatunkach dotychczas stwierdzonych na obszarze Polski. Do tego celu utworzono komputerową bazę danych, w której zastosowano ustaloną strukturę rekordów z uwzględnieniem numerycznych i tekstowych kodów gatunków (Pawlikowski 2000).

Kody te ustalono w oparciu o zasady taksonomii systematycznej (tab. 1) i zgodnie z zaleceniami programowymi projektu Wspólnoty Europejskiej pod nazwą CORINE (Dyduch-Falniowska i Zajac 1996). Wykaz tych kodów dla wszystkich środkowoeuropejskich gatunków pszczół przedstawiono poniżej. Wykaz kompletnej literatury zawierającej rozmieszczenie pszczół w Polsce zostanie zamieszczony w części drugiej komputerowej check-listy.