

Annotated list of aphids recorded from Denmark (Hemiptera: Phylloxeroidea and Aphidoidea)

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A list of 468 aphid species and 5 subspecies found in Denmark, including *Periphyllus californiensis*, which is new to Denmark, is given with notes on distribution in Denmark, life cycle and host plants.

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Introduction

The sequence in the list of species found in Denmark until 1997 is nearly the same as in "Fauna entomologica scandinavica" (in the following abbreviated FES) (exceptions are subtribe Rhopalosiphina and tribe Tramini). References are given in brackets to species number in "A list of Danish aphids" (Heie 1960-70) or in later additions (example: L9 296 means species number 296 in 9th part of the list) and in FES (example: FES II 100 means species number 100 in the second volume) after each name. Additions to the list from 1960-70 are abbreviated as (72), (73) etc., which mean Heie 1972, Heie 1973 etc. (see literature). Some changes of names have been done according to Remaudière & Remaudière (1997).

The list contains one species new to Denmark, *Periphyllus californiensis*. The number of species, 468, is 10.5% of the world fauna. Distribution in Denmark is given as the abbreviations of the eleven districts used in FES: SJ = South Jutland, EJ = East Jutland, WJ = West Jutland, NWJ = Northwest Jutland, NEJ = Northeast Jutland, F = Funen and the islands south of Funen, LFM = Lolland, Falster and Møn, SZ = South Zealand, NWZ = Northwest Zealand, NEZ = Northeast Zealand, B = Bornholm. The borders between these districts are given in each volume of FES. For species of the superfamily Aphidoidea districts not mentioned in FES are marked with asterisks (*). The number of localities, at which each species has been observed, is given in brackets after the distribution to give an impression of frequency (or rather how easily a certain species can be observed). Two localities within a square of about 0.5 km² are reckoned as only one locality.

Life cycles and host plants are added. Hol. = holocyclic = with a generation of males and females reproducing by fertilized eggs, normally in late summer or autumn. Anhol. = anholocyclic = all generations parthenogenetic. Het. = heteroecious = host-alternating between primary hosts (I) and secondary hosts (II). Mon. = monoecious = not host-alternating.

PHYLLOXEROIDEA ADELGIDAE

Pineus Shimer, 186

cembrae (Cholodkovsky, 1888): Recorded from Denmark, localities unknown. Hol., het. on I: *Picea abies*, II: *Pinus cembra*.

orientalis (Dreyfus, 1889) (L9 320): LFM NEZ (2) – Hol., het. on I: *Picea orientalis*, thunbergi, II: *Pinus*.

pineoides (Cholodkovsky, 1907): SJ NEZ (2). – Anhol. on *Picea abies*.
pini (Maquart, 1819) (L9 321): All districts (23) – Anhol. on *Pinus*.
strobi (Hartig, 1837) (L9 322): Boas (1924): common – Hol., het. on I: *Picea mariana*, II: *Pinus strobus*.

Adelges Vallot, 1836

abietis (Linné, 1758) (L9 328): EJ WJ NWJ NEJ NEZ (*abietis* s.lat.: all districts (126)) – Anhol. on *Picea*, mainly *abies*.
cooleyi (Gillette, 1907) (L9 327): All districts (68) – Hol., het. on I: *Picea*, mainly *sitchensis*, II: *Pseudotsuga*.
laricis Vallot, 1836 (L9 325): F NWZ NEZ (*laricis* s.lat.: all districts (43)) – Hol., het. on I: *Picea*, II: *Larix*.
merkeri (Eichhorn, 1957): Bejer in lit.: WJ (1) – Hol., het. on I: *Picea orientalis*, II: *Abies*.
nordmannianae (Eckstein, 1890) (L9 323): EJ NWJ NEJ F LFM SZ NEZ (33) – Hol., het. on I: *Picea orientalis*, II: *Abies*.
piceae (Ratzeburg, 1844) (L9 324): EJ NWJ NEJ F SZ NEZ (14) – Anhol. on *Abies*.
tardus (Dreyfus, 1888) (L9 326): EJ NWJ (see also *laricis* s.lat.) – Anhol. on *Picea abies*.
viridis (Ratzeburg, 1843) (L9 329): NWJ NEJ (see also *abietis* s.lat.) – Hol., het. on I: *Picea*, II: *Larix*.
viridana (Cholodkovsky, 1896) (82): EJ WJ NEJ (7) – Anhol. on *Larix*.

PHYLLOXERIDAE

Phylloxera Boyer de Fonscolombe, 1834

coccinea (von Heyden, 1837) (L9 330): EJ – On *Quercus*.
glabra (von Heyden, 1837) (L9 331): EJ – On *Quercus*.
(one or both species: SJ EJ WJ NWJ NEJ F SZ NWZ NEZ (36))

APHIDOIDEA

MINDARIDAE

Mindarus Koch, 1837

abietinus Koch, 1857 (L9 296, FES I 1): EJ NWJ NEJ (4) – Hol., mon. on *Abies*.
obliquus (Cholodkovsky, 1896) (19 297, FES I 2): SJ EJ WJ NWJ NEJ F NWZ NEZ (29) – Hol., mon. on *Picea glauca*, *P. sitchensis*.

HORMAPHIDIDAE

Hamamelistes Shimer, 1867

betulinus (Horvath, 1896) (L9 298, FES I 4): EJ NEJ SZ NEZ (5) – Anhol. on *Betula*.

THELAXIDAE

Thelaxes Westwood, 1840

dryophila (Schrank, 1801) (L9 294, FES I 6): SJ EJ WJ NWJ NEJ F LFM NWZ NEZ (37) – Hol., mon. on *Quercus*.

Glyphina Koch, 1856

betulae (Linné, 1758) (L9 295, FES I 7): EJ WJ NWJ NEJ F *NEZ (7) – Hol., mon. on *Betula*.

ANOECIIDAE

Anoecia Koch, 1857

corni (Fabricius, 1775) (L9 291, FES I 9): SJ EJ *WJ NWJ LFM SZ *NWZ NEZ B (22) – Hol., het. on I: *Cornus*, II: *Gramineae*.

major Börner, 1950 (91, FES I 10): EJ (1) – Hol., mon. (?) on Gramineae.
memoralis Börner, 1950 (82, FES I 11): F (1) – Hol., het. on I: Cornus, II: Gramineae.
agans (Koch, 1856) (L9 293, FES I 12): *EJ NEZ (2) – Hol., het. on I: Cornus, II: Gramineae.
zirmitsi Mordvilko, 1931 (82, FES I 13): EJ (1) – Hol., mon. on Gramineae.

(Subg. **Paranoecia** Zwölfer, 1957)

pskovica Mordvilko, 1916 (L9 292, FES I 14): EJ *NWZ (3) – Hol., mon. on Carex, Eriophorum.

PEMPHIGIDAE

Eriosomatinae

Eriosoma Leach, 1818

lanigerum (Hausmann, 1802) (L9 299, FES I 15): SJ EJ WJ NEJ F LFM *NWZ NEZ (28) – Anhol. on Malus a.o. Pomaceae.

(Subg. **Schizoneura** Hartig, 1839)

anncharlotteae Danielsson, 1979 (91, FES I 16): NEZ (2) – Hol., het. on I: Ulmus carpinifolia, U. procera, II: Ribes alpinum.

grossulariae (Schüle, 1887) (86, in FES I not separated from *ulmi*): F (1) – Hol., het. on I: Ulmus, II: Ribes, especially uva-crispa (grossularia), not aureum.

patchiae (Börner & Blunck, 1916) (L9 301, FES 18): EJ NWJ NEJ *F *LFM NEZ (9) – Hol., het. on I: Ulmus, II: Senecio, Cineraria.

ulmi (Linné, 1758) (L9 302, FES I 20): All districts (*B) (78) – Hol., het. on I: Ulmus, II: Ribes, especially nigrum and rubrum, incl. aureum.

Colopha Monell, 1877

compressa (Koch, 1856) (72, FES I 21): NWJ (2) – Hol., het. on I: Ulmus, II: Carex.

Kaltenbachella Schouteden, 1906

pallida (Haliday, 1838) (L9 303, FES I 22): EJ NEZ (5) – Hol., het. on I: Ulmus, II: Labiatae.

Tetraneura Hartig, 1841

ulmi (Linné, 1758) (L9 304, FES I 24): All districts (34) – Hol., het. on I: Ulmus, II: Gramineae.

Pemphiginae

Tribe Prociphilini

Pachypappa Koch, 1856

tremulae (Linné, 1761) (L9 305, FES I 26): SJ NWJ NEJ *NEZ (5) – Hol., het. on I: Populus tremula, II: Picea abies.

vesicalis Koch, 1856 (FES I page 147): NEJ (Læsø, J. Jørgensen leg) (1) – Hol. het. on I: Populus alba and canescens, II: Picea abies and glauca.

Gootiella Tullgren, 1925

tremulae Tullgren, 1925 (L9 306, FES I: 30): NEZ (1) – Hol., het. on I: Populus tremula, II: Juniperus.

Prociphilus Koch, 1857

bumeliae (Schrank, 1801) (L9 307, FES I 31): *WJ NWJ NEJ *NEZ (5) – Hol., het. on I: Fraxinus a.o. Oleaceae, II: Abies.

fraxini (Fabricius, 1777) (L9 308, FES I 32): NWJ NEZ (3) – Hol., het. on I: Fraxinus, II: Abies.

(Subg. **Stagona** Koch, 1857)

pini (Burmeister, 1835) (L9 309, FES I 33): NWJ NEJ *LFM NEZ (6) – Hol., het. on I: Crataegus, II: Pinus.

xylostei (DeGeer, 1773) (L9 310, FES I 34): WJ NWJ F LFM NEZ B (11) – Hol., het. on I: Lonicera, II: Picea.

Tribe Pemphigini

Thecabius Koch, 1857

affinis (Kaltenbach, 1843) (L9 311, FES I 35): *SJ EJ WJ NWJ NEJ F NWZ NEZ B (40) – Hol., het. on I: Populus nigra-group, II: Ranunculus.

(Subg. *Parathecabius* Börner, 1950)

lysimachiae Börner, 1916 (L9 314, FES I 36): EJ NEZ (3) – Hol., het. on I: Populus nigra-group, II: Lysimachia nummularia.

Pemphigus Hartig, 1839

bursarius (Linné, 1758) (L9 312, FES I 38): SJ EJ WJ NWJ NEJ LFM NWZ NEZ B (27) – Hol., het. on I: Populus nigra-group, II: Lactuca a.o. Compositae.

fuscicornis (Koch, 1857) (82, FES I 39): *SJ EJ NWJ F NEZ (5) – Anhol.(?) on Matricaria, Tripleurospermum, ?Chenopodium, ?Beta.

phenax Börner & Blunck, 1916 (L9 315, FES I 40): NWZ *NEZ (2) – Hol., het. on I: Populus nigra-group, II: Daucus carota.

populi Courchet, 1879 (82, FES I 41): EJ (1) – Hol., het. on I: Populus nigra-group, II: Melilotus, Lathyrus, Medicago.

populinigrae (Schrank, 1801) (L9 313, FES I 42): EJ NWJ NEJ F LFM SZ NEZ B (13) – Hol., het. on I: Populus nigra-group, II: Gnaphalium, Filago.

protospirae Lichtenstein, 1885 (86, FES I 43): SJ (1) – Hol., het. on I: Populus nigra-group, II: Berula, Sium, Apium.

spyrothecae Passerini, 1856 (L9 316, FES I 45): EJ WJ NWJ NEJ F LFM SZ NWZ NEZ B (28) – Hol., mon. on Populus nigra-group.

Fordinae

Aploneura Passerini, 1863

lentisci (Passerini, 1856) (73, FES I 46): NWJ *F *NEZ (3) – Anhol. on Gramineae (in S Europe hol., het. on I: Pistacia lentiscus, II: Gramineae).

Baizongia Rondani, 1848

pistaciae (Linné, 1767) (91, FES I 47): EJ WJ (2) – Anhol. on Gramineae (in S Europe hol., het. on I: Pistacia terebinthus, II: Gramineae).

Geoica Hart, 1894

setulosa (Passerini, 1860) (82, FES I 49): *EJ NWZ (2) – Anhol. on Gramineae.

utricularia (Passerini, 1856) (L9 319, FES I 48): EJ WJ NWJ NEJ NWZ *NEZ (7) – Anhol. on Gramineae (in S Europe hol., het. on I: Pistacia terebinthus, II: Gramineae).

Forda von Heyden, 1837

formicaria von Heyden, 1837 (L9 317, FES I 51): EJ WJ NWJ *NEJ NEZ (14) – Anhol. on Gramineae (in S Europe hol., het. on I: Pistacia terebinthus, II: Gramineae).

marginata Koch, 1857 (81, FES I 52): EJ NEZ (3) – Anhol. on Gramineae (in S Europe hol., het. on I: Pistacia terebinthus, mutica, II: Gramineae).

Smynthurodes Westwood, 1849

betae Westwood, 1849 (L9 318, FES I 53): *EJ F *NEZ (5) – Anhol. on Compositae, Leguminosae, Solanaceae, Chenopodiaceae, Cruciferae a.o. herbaceous dicots (in S Europe hol., het. on I: Pistacia mutica, II: herbaceous dicots).

DREPANOSIPHIDAE

Drepanosiphinae

Drepanosiphum Koch, 1855

acerinum (Walker, 1848) (L8 257, FES II 55): EJ NWJ NEJ (3) – Hol., mon. on Acer pseudoplatanus.

aceris Koch, 1855 (L8 258, FES II 56): SJ EJ WJ NWJ NEJ F LFM NEZ (errore NWZ in FES) (11) – Hol., mon. on *Acer campestre*.
platanoidis (Schrank, 1801) (L8 259, FES II 57): All districts (*B) (195) – Hol., mon. on *Acer*.

Phyllaphidinae
Tribe Phyllaphidini
Subtribe Phyllaphidina

- Symydobius*** Mordvilko, 1894
oblongus (von Heyden, 1937) (L8 260, FES II 58): All districts (70) – Hol., mon. on *Betula*.
- Clethrobis*** Mordvilko, 1928
comes (Walker, 1848) (L8 261, FES II 59): EJ NWJ NEJ F NEZ (10) – Hol., mon. on *Betula*, *Alnus*.
- Euceraphis*** Walker, 1870
betulae (Koch, 1855) (82, FES II 60): All districts (164) – Hol., mon. on *Betula verrucosa*.
punctipennis (Zetterstedt, 1828) (L8 262, FES II 61): All districts (108) – Hol., mon. on *Betula pubescens*.
- Phyllaphis*** Koch, 1857
fagi (Linné, 1767) (L8 263, FES II 62): All districts (164) – Hol., mon. on *Fagus silvatica*.
- Callipterinella*** van der Goot, 1913
calliptera (Hartig, 1841) (L8 264, FES II 63): EJ NWJ NEJ NEZ *B (14) – Hol., mon. on *Betula*.
minutissima (Stroyan, 1953) (82, FES II 64): NWJ (1) – Hol., mon. on *Betula*.
tuberculata (von Heyden, 1837) (L8 265, FES II 65): NEZ (5) – Hol., mon. on *Betula verrucosa*.
- Calaphis*** Walsh, 1863
betulicola (Kaltenbach, 1843) (L8 266, FES II 66): EJ NEJ *NEZ (4) – Hol., mon. on *Betula*.
flava Mordvilko, 1928 (L8 267, FES II 67): All districts (*NWZ *B) (121) – Hol., mon. on *Betula*, especially *pubescens*.
- Betulaphis*** Glendenning, 1926
brevipilosa Börner, 1940 (L8 268, FES II 68): *SJ EJ WJ NWJ NEJ F LFM *NWZ NEZ (49) – Hol., mon. on *Betula verrucosa*.
quadrituberculata (Kaltenbach, 1843) (L8 269, FES II 70): All districts (*SZ *NWZ) (98) – Hol., mon. on *Betula*.

Subtribe Myzocallidina

- Panaphis*** Kirkaldy, 1904 (*Callaphis* Walker, 1870 is invalid)
juglandis (Goeze, 1778) (L8 270, FES II 72): SJ EJ NEZ *B (8) – Hol., mon. on *Juglans regia*.
- Chromaphis*** Walker, 1870
juglandicola (Kaltenbach, 1843) (L8 271, FES II 73): SJ *EJ *NWJ *SZ NEZ (10) – Hol., mon. on *Juglans regia*.
- Myzocallis*** Passerini, 1860
carpini (Koch, 1855) (L8 273, FES II 74): All districts (*NWZ) (47) – Hol., mon. on *Carpinus betulus*.
castanicola Baker, 1917 (L8 274, FES II 75): EJ NWJ NEZ (errore NEJ in FES) (4) – Hol., mon. on *Castanea*, *Quercus*.
coryli (Goeze, 1778) (L8 275, FES II 76): All districts (*NWZ) (131) – Hol., mon. on *Corylus avellana*.
myricae (Kaltenbach, 1843) (L8 276, FES II 77): SJ EJ WJ NWJ NEJ (18) – Hol., mon. on *Myrica gale*.

Tuberculatus Mordvilko, 1894

querceus (Kaltenbach, 1843) (L8 278, FES II 78): EJ NWJ NEZ (3) – Hol., mon. on *Quercus robur*.

(Subg. ***Tuberculoides*** van der Goot, 1915)

annulatus (Hartig, 1841) (L8 277, FES II 79): All districts (173) – Hol., mon. on *Quercus*.

borealis (Krzywicz, 1971) (82, FES II 80): NEZ (1) – Hol., mon. on *Quercus*.

neglectus (Krzywicz, 1966) (82, FES II 81): EJ (1) – Hol., mon. on *Quercus petraea*.

Pterocallis Passerini, 1860

albidus Börner, 1940 (L8 279, FES II 82): *EJ WJ NWJ *NEZ (8) – Hol., mon. on *Alnus incana*.

alni (DeGeer, 1773) (L8 280, FES II 83): All districts (*F) (52) – Hol., mon. on *Alnus glutinosa*.

maculatus (von Heyden, 1837) (L8 281, FES II 84): SJ NWJ (2) – Hol., mon. on *Alnus glutinosa*.

Ctenocallis Klodnitzki, 1924

setosus (Kaltenbach, 1846) (L8 282, FES II 85): EJ (1) – Hol., mon. on *Sarothamnus*.

Tinocallis Matsumura, 1919

nevskyi Remaudière, Quednau & Heie, 1988 (86, FES II 87 (as *T. saltans* (Nevsky, 1929))): SJ EJ WJ *NWJ F LFM SZ NWZ NEZ B (70) – Hol., mon. on *Ulmus*.

platani (Kaltenbach, 1843) (72, FES II 86): NWJ NEZ (2) – Hol., mon. on *Ulmus*.

Eucallipterus Schouteden, 1906

tiliae (Linné, 1758) (L8 272, FES II 88): SJ EJ WJ NWJ NEJ F LFM SZ *NWZ NEZ B (82) – Hol., mon. on *Tilia*.

Subtribe Therioaphidina

Therioaphis Walker, 1870

luteola (Börner, 1949) (L8 283, FES II 89): F SZ NEZ (3) – Hol., mon. on *Trifolium pratense*.

ononidis (Kaltenbach, 1846) (L8 284, FES II 90): EJ NWJ NEJ F (6) – Hol., mon. on *Ononis*.

riehmi (Börner, 1949) (76, FES II 91): EJ NWJ *LFM NEZ (6) – Hol., mon. on *Melilotus*.

trifolii (Monell, 1882) (L8 285, FES II 93): SJ EJ WJ NWJ NEJ SZ NEZ (8) – Hol., mon. on *Trifolium* a.o. Leguminosae.

Tribe Saltusaphidini

Thripsaphis Gillette, 1917

(Subg. ***Trichocallis*** Börner, 1930)

cyperi (Walker, 1848) (L8 286, FES II 98): EJ WJ (2) – Hol., mon. on *Carex vesicaria*, *C. rostrata*.

verrucosa Gillette, 1917 (L8 287, FES II 100): NEJ (1) – Hol., mon. on *Carex*.

Subsaltusaphis Quednau, 1953

flava (Hille Ris Lambers, 1939) (L8 288, FES II 104): WJ NWJ NEJ (3) – Hol., mon. on *Carex nigra*.

pallida (Hille Ris Lambers, 1939) (82, FES II 107): NWJ (1) – Hol., mon. on *Carex*.

rossneri (Börner, 1940) (82, FES II 110): WJ (1) – Hol., mon. on *Carex*.

Iziphya Nevsky, 1929

bufo (Walker, 1848) (L8 289, FES II 114): WJ NWJ NEJ NEZ (4) – Hol., mon. on *Carex arenaria*.

leegei Börner, 1940 (L8 290, FES II 116): NWJ NEZ (3) – Hol., mon. on *Juncus*.

Chaitophorinae
Tribe Chaitophorini

Periphyllus van der Hoeven, 1863

- acericola* (Walker, 1848) (L8 240, FES II 118): SJ EJ WJ NWJ NEJ F LFM *SZ NWZ NEZ (53) – Hol., mon. on *Acer pseudoplatanus*.
aceris (Linné, 1761) (73, FES II 119): NWJ *NEZ *B (4) – Hol., mon. on *Acer platanoides*.
californiensis (Shinji, 1917) (FES II page 114): NEZ (2) – Hol. mon. on *Acer palmatum* a.o.
New to Denmark. Dimorphs were found on the red leaves of Japanese maples at two localities in Copenhagen (NEZ), 1.VII.1995 in Frederiksberg, 19.VII.1995 in Hellerup.
hirticornis (Walker, 1848) (81, FES II 121): LFM NEZ (2) – Hol., mon. on *Acer campestre*.
lyropictus (Kessler, 1886) (L8 241, FES II 122): SJ EJ NWJ *LFM *SZ *NWZ *NEZ (20) – Hol., mon. on *Acer*.
singeri Börner, 1952 (FES II page 119): NEZ (1) – Hol. mon. *Acer pseudoplatanus*.
testudinaceus (Ferne, 1852) (L8 242, FES II 123): All districts (111) – Hol., mon. on *Acer*, *Aesculus*.

Chaitophorus Koch, 1854

- capreae* (Mosley, 1841) (L8 244, FES II 124): SJ EJ WJ NWJ NEJ F *NWZ NEZ (30) – Hol., mon. on *Salix caprea*-group.
horii Takahashi, 1939, subsp. *beuthani* (Börner, 1950) (L8 243, FES II 125): SJ EJ NWJ NEJ F SZ NEZ (15) – Hol., mon. on *Salix viminalis*-group.
leucomelas Koch, 1854 (L8 245, FES II 127): EJ NWJ NEJ LFM NWZ NEZ (8) – Hol., mon. on *Populus nigra*-group.
populeti (Panzer, 1801) (L8 247, FES II 130): *SJ EJ WJ NWJ NEJ F LFM NEZ (17) – Hol., mon. on *Populus nigra*-group.
populialbae (Boyer de Fonscolombe, 1841) (L8 247, FES II 131): NWJ *NEJ *LFM NEZ (5) – Hol., mon. on *Populus*.
salicti (Schrank, 1801) (L8 249, FES II 133): NWJ NEJ NEZ (3) – Hol., mon. on *Salix caprea*-group.
salijaponicus Essig & Kuwana, 1918, subsp. *niger* Mordvilko, 1929 (= *parvus* Hille Ris Lambers, 1935) (L8 246, FES II 128+134): NEJ (2) – Hol., mon. on *Salix*.
tremulae Koch, 1854 (L8 250, FES II 135): *SJ EJ WJ NWJ NEJ (11) – Hol., mon. on *Populus tremula*.
truncatus (Hausmann, 1802) (81, FES II 136): NEZ (1) – Hol., mon. on *Salix*.
vitellinae (Schrank, 1801) (81, FES II 137): NEZ (1) – Hol., mon. on *Salix viminalis*-group.

Tribe Siphini

Caricosipha Börner, 1939

- paniculatae* Börner, 1939 (73, FES II 138): EJ WJ NWJ NEZ (7) – Hol., mon. on *Carex*.

Laingia Theobald, 1922

- psammae* Theobald, 1922 (L8 251, FES II 139): *SJ WJ NWJ NEJ *LFM *NEZ (26) – Hol., mon. on *Ammophila*, *Calamagrostis*, *Elymus*, *Deschampsia*.

Atheroides Haliday, 1839

- serrulatus* Haliday, 1839 (L8 252, FES II 143): EJ WJ NWJ NEJ NEZ (22) – Hol., mon. on Gramineae.

Sipha Passerini, 1860

- glyceriae* (Kaltenbach, 1843) (L8 253, FES II 144): EJ WJ NWJ NEJ SZ NEZ (9) – Hol., mon. on Gramineae.

- littoralis* (Walker, 1848) (82, FES II 145): SJ (1) – Hol., mon. on *Spartina*.

(Subg. **Rungisia** Mimeur, 1933)

- arenarii* Mordvilko, 1921 (L8 255, FES II 146): NEZ (1) – Hol., mon. on *Elymus*.

elegans del Guercio, 1905 (L8 254, FES II 147): WJ NWJ NEJ NEZ (5) – Hol., mon. on Gramineae.

maydis Passerini, 1860 (82, FES II 148): NEJ (1) – Hol., mon. on Gramineae.

Chaetosiphella Hille Ris Lambers, 1939

berlesi (del Guercio, 1905) (L8 256, FES II 149): NWJ NEJ (2) – Hol., mon., on Gramineae.

APHIDIDAE

Pterocommatinae

Pterocomma Buckton, 1979

jacksoni Theobald, 1921 (73, FES III 150): NWJ *NEZ (2) – Hol., mon. on Salix.

pilosum Buckton, 1879 s.str. (L7 197, FES III 151a): EJ NWJ NEJ NEZ (8) – Hol., mon. on Salix.

pilosum subsp. *konoii* Hori, 1939 (L7 198, FES III 151b): EJ NWJ NEJ NEZ (4) – Hol., mon. on Salix.

populeum (Kaltenbach, 1843) (L7 199, FES III 152): *EJ NWJ LFM NEZ (7) – Hol., mon. on Populus nigra-group.

rufipes (Hartig, 1841) (86, FES III 153): EJ NWJ NEZ (3) – Hol., mon. on Salix and Populus.

salicis (Linné, 1758) (L7 200, FES III 154): SJ EJ NWJ NEJ F NWZ NEZ (11) – Hol., mon. on Salix.

tremulae Börner, 1940 (L7 201, FES III 155): NWJ NEJ NEZ (3) – Hol., mon. on Populus tremula.

Plocamaphis Oestlund, 1922

amerinae (Hartig, 1841) (91, FES III 156): NEZ (1) – Hol., mon. on Salix.

Aphidinae

Tribe Aphidini

Aphis Linné, 1758

acetosae Linné, 1761 s.str. (L6 141, FES III 181a): *SJ EJ WJ NWJ NEJ F *SZ NEZ (40) – Hol., mon. on Rumex acetosa and thyrsoiflorus.

acetosae subsp. *rumicivora* Heie, 1986 (FES III 181b): EJ WJ NWJ NEJ (6) – On roots of Rumex acetosella.

brohmeri Börner, 1952 (L6 142, FES III 185): EJ *WJ F *SZ (6) – Hol., mon. on Anthriscus silvestris.

chloris Koch, 1854 (L6 143, F 188): *SJ EJ WJ NWJ NEJ SZ *NWZ NEZ (19) – Hol., mon. on Hypericum (in the soil).

comari Prior & Stroyan, 1977 (82, FES III 189): NEZ (1) – Hol., mon. on Comarum palustre.

confusa Walker, 1849 (L6 145, FES III 190): EJ WJ NWJ NEJ F NWZ (39) – Hol., mon. on Knautia arvensis, Scabiosa columbaria.

coronillae Ferrari, 1872 (= *scaliai* del Guercio, 1915) (73, FES III 191): NEZ (3) – Hol., mon. on Trifolium, Medicago, Coronilla.

craccae Linné, 1758 (L6 147, FES III 192): *SJ EJ WJ NWJ NEJ *NEZ (22) – Hol., mon. on Vicia, mainly cracca.

craccivora Koch, 1854 (L6 148, FES III 193): EJ NWJ NEZ (7) – Hol., mon. on Leguminosae (Lupinus, Medicago, Melilotus, Robinia, Caragana a.o.).

cytisorum Hartig, 1841 (L6 150, FES III 194): EJ NWJ NEJ NWZ NEZ (6) – Hol., mon. on Laburnum.

epilobiarum Theobald, 1927 (= *pollinosa* auctt. not Walker) (72, FES III 195): *SJ EJ NWJ LFM SZ NEZ (15) – Hol., mon. on Epilobium hirsutum a.o.

- epilobii* Kaltenbach, 1843 (L6 152, FES III 196): SJ EJ WJ NWJ NEJ F LFM SZ NEZ (51) – Hol., mon. on *Epilobium montanum*.
- euphorbiae* Kaltenbach, 1843 (91, FES III 200): LFM (1) – On *Euphorbia cyparissias*.
- euonymi* Fabricius, 1775 (86, FES III 199): NEZ (2) – Hol., mon. on *Euonymus europaeus*.
- fabae* Scopoli, 1763 (L6 153, FES III 201): All districts (165) – Hol., het. on I: *Euonymus europaeus*, *Viburnum opulus*, *Philadelphus coronarius*, II: nearly all kinds of herbaceous plants, e.g. *Chenopodiaceae*, *Cruciferae*, *Solanaceae* and *Compositae*. Has been subdivided into several subspecies.
- farinosa* Gmelin, 1790 (L6 154, FES III 202): SJ EJ WJ NEJ F LFM NWZ NEZ (29) – Hol., mon. on *Salix*.
- forbesi* Weed, 1889 (L6 155, FES III 203): NEZ (1) – On *Fragaria*.
- frangulae* Kaltenbach, 1845 (L6 156+158, FES III 204): *SJ EJ WJ NWJ NEJ F LFM SZ NEZ (26) – Hol. (but subsp. *gossypii* Glover, 1877 anhol.), het. on I: *Frangula alnus*, II: a large number of herbaceous plants, e.g. *Solanum tuberosum*, *Chamaenerium angustifolium*, *Capsella bursa-pastoris*, *Galeopsis*, *Lamium*, *Lysimachia* and *Veronica*. The subspecies *gossypii* anhol. on *Cucurbita*, *Citrullus*, *Cucumis*, *Solanum tuberosum*, *Lysimachia* a.o.
- galiiscabri* Schrank, 1801 (L6 157, FES III 205): LFM (1) – On *Galium*.
- grossulariae* Kaltenbach, 1843 (L6 159, FES III 207): SJ EJ NWJ NEJ *SZ NEZ *B (9) – Hol., het. on I: *Ribes*, mainly *R. uva-crispa*, II: *Epilobium*, mainly *montanum*.
- hederae* Kaltenbach, 1843 (L6 160, FES III 208): *SJ EJ *WJ NWJ NEJ F SZ NWZ NEZ *B (20) – Hol., mon. on *Hedera helix*.
- hieracii* Schrank, 1801 (L6 161, FES III 210): SJ WJ NEJ (7) – Hol., mon. on *Hieracium*, mainly *umbellatum*.
- hypochoeridis* (Börner, 1940) (L6 162, FES III 211): SJ *EJ WJ NWJ NEJ *B (18) – On *Hypochoeris*.
- idaei* van der Goot, 1912 (L6 163, FES III 212): All districts (*SJ *NWZ *B) (27) – Hol., mon. on *Rubus idaeus*.
- ilicis* Kaltenbach, 1843 (73, FES III 213): SJ EJ NWJ *NEJ *LFM NEZ (21) – Hol., mon. on *Ilex*.
- intybi* Koch, 1855 (L6 164, FES III 214): F LFM (7) – Hol., mon. on *Cichorium intybus*.
- janischi* (Börner, 1940) (82, FES III 216): SZ (1) – On *Cirsium oleraceum* (perhaps a synonym of *fabae*).
- klimeschi* (Börner, 1950) (72, FES III 217): WJ NEJ (2) – Hol., mon. on *Anthyllis vulneraria*.
- korshunovi* Ivanovskaja, 1971 (syn. *pseudolysimachiae* Heikinheimo, 1978) (86, FES III 239): NEZ (1) – Hol., mon. on *Veronica*.
- lambersi* (Börner, 1940) (L6 165, FES III 218): EJ F (4) – Hol., mon. on *Daucus carota*.
- leontodontis* (Börner, 1950) (L6 166, FES III 219): SJ NWJ NEJ SZ (4) – Hol., mon. on *Leontodon autumnalis*.
- longirostrata* Hille Ris Lambers, 1966 (82, FES III 221): WJ NWJ (4) – Hol., mon. on *Plantago maritima* and *coronopus*.
- loti* Kaltenbach, 1862 (86, FES III 222): EJ NWJ (2) – Hol., mon. on *Lotus*, *Anthyllis*.
- mirifca* (Börner, 1950) (L6 167, FES III 224): EJ WJ NWJ (3) – Hol., mon. on *Chamaenerium angustifolium*.
- molluginis* (Börner, 1950) (72, FES III 225): EJ (1) – Hol., mon. on *Galium*.
- nasturtii* Kaltenbach, 1843 (L6 168, FES III 226): All districts (41) – Hol., het. on I: *Rhamnus cathartica*, II: a large number of herbaceous plants, e.g. *Solanum tuberosum*, *Nasturtium*, *Polygonum* and *Veronica*.
- newtoni* Theobald, 1927 (76, FES III 227): EJ NWJ F (3) – Hol., mon. on *Iris*.
- origani* Passerini, 1860 (L6 169, FES III 229): LFM (1) – On *Origanum vulgare*.
- pernilleae* Heide, 1986 (91, FES III 230): EJ (2) – Hol., mon. on roots of *Hypochoeris*.
- pilosellae* (Börner, 1952) (L6 170, FES III 231): EJ (1) – Hol., mon. on *Hieracium*, mainly *pilosella*.

- plantaginis* Goeze, 1778 (76, FES III 232): SJ *F LFM NEZ (5) – Hol., mon. on *Plantago* (mainly major).
- podagrariae* Schrank, 1801 (L6 171, FES III 233): *SJ EJ F NEZ (6) – Hol., mon. on *Aegopodium podagraria*.
- polygonata* (Nevsky, 1929) (syn. *avicularis* (Hille Ris Lambers, 1931)) (73, FES III 184): NEJ F *LFM NEZ (4) – On *Polygonum aviculare*.
- pomi* DeGeer, 1773 (L6 172, FES III 234): All districts (*B) (74) – Hol., mon. on *Malus*, *Crataegus*, *Mespilus*, *Cotoneaster*, *Sorbus*, *Pyracantha* a.o. Pomaceae.
- praeterita* Walker, 1849 (= *diphaga* Walker, 1852) (L6 151, FES III 235): *SJ EJ NWJ SZ NEZ (16) – On *Epilobium*, mainly *hirsutum*.
- proffii* (Börner, 1942) (L6 173, FES III 236): *EJ LFM *NWZ (3) – On *Agrimonia odorata*.
- psammophila* Szelegiewicz, 1967 (L6 174, FES III 237): EJ NWJ NEJ (3) – Hol., mon. on subterraneous parts of *Jasione montana* and *Campanula rotundifolia*.
- pseudocomosa* Stroyan, 1972 (L6 144, FES III 238): EJ NEJ (2) – Hol., mon. on *Lathyrus pratensis*.
- ruborum* (Börner, 1932) (L6 175, FES III 242): EJ *WJ F NEZ (4) – Hol., mon. on *Rubus* spp. of the fruticosus-group.
- rumicis* Linné, 1758 (L6 176, FES III 243): SJ EJ WJ NWJ NEJ NEZ (24) – Hol., mon. on *Rumex*, mainly *obtusifolius*.
- salicariae* Koch, 1855 (L6 146, FES III 244): *SJ EJ WJ NWJ NEJ F SZ NEZ (75) – Hol., het. on I: *Cornus*, II: *Chamaenerium angustifolium*.
- sambuci* Linné, 1758 (L6 177, FES III 245): All districts (88) – Hol., het. on I: *Sambucus*, II: roots of *Rumex* spp., Caryophyllaceae and some other herbaceous plants.
- sarothamni* Franssen, 1928 (82, FES III 247): EJ WJ NWJ NEJ F NEZ (15) – Hol., mon. on *Sarothamnus*, *Cytisus*.
- schneideri* (Börner, 1940) (L6 178, FES III 248): SJ EJ NEJ F NEZ (7) – Hol., mon. on *Ribes*, mainly *nigrum*.
- sedii* Kaltenbach, 1843 (L6 179, FES III 249): *SJ EJ WJ NWJ F NEZ (11) – Hol., mon. on *Sedum* and *Sempervivum*.
- serpylli* Koch, 1854 (82, FES III 250): WJ (1) – Hol., mon. on *Thymus*.
- spiraephaga* F.P.Müller, 1961 (82, FES III 251): WJ NEJ *LFM *NWZ *NEZ (7) – Hol., mon. on *Spiraea* (mainly *vanhouttei* and *arguta*).
- subnitida* (Börner, 1940) (L6 180, FES III 252): NEJ F (2) – On *Pimpinella saxifraga*.
- taraxacicola* (Börner, 1940) (73, FES III 253): SJ EJ WJ NWJ NEJ F NWZ NEZ (26) – Hol., mon. on *Taraxacum*.
- tomentillae* Passerini, 1879 (L6 181, FES III 254): SJ NWJ (2) – Hol., mon. on *Potentilla erecta*.
- triglochinis* Theobald, 1926 (L6 182, FES III 255): EJ NWJ (2) – Hol., het. on I: *Ribes*, II: *Triglochin*, *Rorippa*, *Barbarea*, *Nasturtium*, *Myosotis* and several other herbaceous plants.
- ulmariae* Schrank, 1801 (L6 183, FES III 257): NWJ NEJ NEZ (5) – Hol., mon. on *Filipendula ulmaria*.
- umbrella* (Börner, 1950) (86, FES III 258): *NWJ NEZ (3) – Hol., mon. on *Malva*.
- urticata* Gmelin, 1790 (L6 184, FES III 259): EJ *WJ NWJ F LFM SZ NEZ (15) – Hol., mon. on *Urtica dioica*.
- vaccinii* (Börner, 1940) (L6 185, FES III 261): WJ *NWJ NEJ (5) – Hol., mon. on *Vaccinium* (mainly *uliginosum*) and *Andromeda*.
- viburni* Scopoli, 1763 (L6 187, FES III 262): EJ WJ NWJ NEJ F LFM *SZ NEZ (16) – Hol., mon. on *Viburnum opulus*.
- violae* Schouteden, 1900 (73, FES III 263): NWZ *NEZ (2) – Hol., mon. on *Viola*, mainly *tricolor*.
- (Subg. **Protaphis** Börner, 1952)
- elongata* (Nevsky, 1928) (73, FES III 264): NWZ (1) – On roots of *Artemisia*.

striata Hille Ris Lambers, 1967 (82, FES III 265): NWJ (1) – Hol., mon. on roots of *Hypochoeris*.

Brachysiphum van der Goot, 1913

thalictri (Koch, 1854 (73, FES III 266): NEZ (1) – Hol., mon. on *Thalictrum*.

Toxopteryna Börner, 1940

vandergooti (Börner, 1939) (L6 186, FES III 267): All districts (113) – Hol., mon. on roots of Compositae, e.g. *Achillea* and *Tanacetum*.

Tribe Rhopalosiphini Subtribe Rhopalosiphina

Hyalopterus Koch, 1854

pruni (Geoffroy, 1762) (L7 196, FES III 158): All districts (138) – Hol., het. on I: *Prunus*, II: *Phragmites communis*.

Rhopalosiphum Koch, 1854

insertum (Walker, 1849) (L7 188, FES III 159): All districts (*SJ *WJ *SZ) (26) – Hol., het. on I: Pomaceae, II: Gramineae.

maidis (Fitch, 1856) (L7 189, FES III 160): EJ NWJ NEZ (3) – Anhol. on Gramineae.

nymphaeae (Linné, 1761) (L7 190, FES III 161): EJ *NWJ *SZ NEZ (6) – Hol., het. on I: *Prunus*, II: *Nymphaea*, *Nuphar*, a.o. water plants.

padi (Linné, 1758) (L7 191, FES III 162): All districts (*NWZ) (83) – Hol., het. on I: *Prunus padus*, II: Gramineae, *Triglochin*, *Carex*, *Juncus*, *Capsella*.

rufiabdominale (Sasaki, 1899) (76, FES III 163): F (1) – Anhol. on Gramineae, Araceae a.o. monocots, indoors.

rufulum Richards, 1960 (72, FES III 164): NWJ NEJ F NEZ (5) – Hol., het. on I: *Crataegus* (only found there in N America), II: *Acorus calamus*.

Melanaphis van der Goot, 1917

elisabethae (Ossiannilsson, 1967) (L7 192, FES III 165): NWJ (1) – Hol., mon. on *Phragmites communis*.

luzulella (Hille Ris Lambers, 1939) (L7 193, FES III 166): NWJ (1) – Hol., mon. on *Luzula*.

pyraria (Passerini, 1861) (81, FES III 167): NEZ (1) – Hol., het. on I: *Pyrus*, II: Gramineae.

Schizaphis Börner, 1931

jaroslavi (Mordvilko, 1921) (L7 195, FES III 172): NEJ (1) – Hol., mon. on *Calamagrostis epigeios*.

pilipes (Ossiannilsson, 1959) (81, FES III 174): NEZ (1) – Hol., mon. on *Carex*.

rufula (Walker, 1849) (73, FES III 175): NWJ NEJ (2) – Hol., mon. on *Ammophila*, *Elymus*.

(Subg. ***Paraschizaphis*** Hille Ris Lambers, 1947)

scirpi (Passerini, 1874) (L7 194, FES III 180): WJ NWJ NEZ (6) – Hol., mon. on *Typha*, *Cyperaceae* a.o. monocots.

Subtribe Macrosiphina

Cryptosiphum Buckton, 1879

artemisiae Buckton, 1879 (L5 140, FES III 268): *SJ EJ NWJ *NEJ F LFM SZ NWZ NEZ B (26) – In red leaf galls on *Artemisia vulgaris*.

Anuraphis del Guercio, 1907

farfarae (Koch, 1854) (L5 136, FES IV 270): NWJ F LFM SZ NWZ NEZ (8) – Hol., het. on I: *Pyrus*, II: roots of *Tussilago*, *Petasites*.

subterranea (Walker, 1852) (L5 137, FES IV 271): NEJ *SZ *NWZ NEZ (9) – Hol., het. on I: *Pyrus*, II: Umbelliferae, mainly *Pastinaca* and *Heracleum*.

Brachycaudus van der Goot, 1913

helichrysi Kaltenbach, 1843 (L5 121, FES IV 272): All districts (114) – Hol., het. on I: *Prunus*.

- nus, mainly domestica and spinosa, II: a large number of herbaceous plants, especially Compositae.
- spiraeae* Börner, 1932 (L5 127, FES IV 273): SJ EJ WJ NWJ NEJ NEZ (21) – Hol., mon. on Spiraea, mainly salicifolia.
- (Subg. *Acaudus* van der Goot, 1913)
- cardui* (Linné, 1758) (L5 120, FES IV 274): SJ EJ WJ NWJ NEJ F LFM SZ NWZ NEZ (60) – Hol., het. on I: Prunus, mainly domestica and spinosa, II: a large number of herbaceous plants, especially Compositae and Boraginaceae.
- klugkisti* (Börner, 1942) (L5 122, FES IV 275): SJ EJ NWJ NEJ (10) – Hol., mon. on Melandrium rubrum.
- linariae* Stroyan, 1950 (82, FES IV 276): WJ (1) – On Linaria vulgaris.
- lychnidis* (Linné, 1758) (L5 123, FES IV 278): EJ WJ NWJ NEJ F NWZ NEZ (14) – Hol., mon. on Melandrium album.
- mimeurii* Remaudière, 1952 (L5 124, FES IV 279): B (1) – On roots of Euphrasia and Odonites.
- napelli* (Schränk, 1801) (L5 125, FES IV 280): SJ NEZ (4) – Hol., mon. on Aconitum.
- populi* (del Guercio, 1911) (72, FES IV 282): EJ WJ NWJ NWZ NEZ (5) – Hol., mon. on Silene, predominantly cucubalus.
- (Subg. *Appelia* Börner, 1930)
- prunicola* (Kaltenbach, 1843) (L5 126, FES IV 283): SJ EJ F LFM SZ NWZ NEZ (9) – Hol., mon. on Prunus, mainly spinosa.
- schwartzii* (Börner, 1931) (82, FES IV 284): NEZ (2) – Hol., mon. on Prunus persica.
- tragopogonis* (Kaltenbach, 1843) (82, FES IV 285): SJ EJ F NEZ (11) – Hol., mon. on Tragopogon pratensis.
- (Subg. *Thuleaphis* Hille Ris Lambers, 1960)
- rumexicolens* (Patch, 1917) (73, FES IV 286): *SJ EJ WJ NWJ NEJ SZ NEZ (20) – Hol., mon. on Rumex acetosella.
- Acaudinum** Börner, 1930
- centaureae* (Koch, 1854) (L5 139, FES IV 287): F (1) – Hol., mon. on Centaurea scabiosa.
- Dysaphis** Börner, 1931
- anthriscii* Börner, 1950 (73, FES IV 290): LFM SZ NWZ NEZ (4) – Hol., het. on I: Malus, II: Anthriscus silvestris.
- apiifolia* subsp. *petroselini* (Börner, 1950) (L5 128, FES IV 291a): WJ F NEZ (3) – Hol., het. on I: Crataegus, II: Umbelliferae, e.g. Petroselinum crispum, Apium graveolens and Anethum graveolens.
- bononii* (Hille Ris Lambers, 1935) (91, FES IV 292): EJ (1) – Hol., mon. on Pastinaca sativa.
- crataegi* (Kaltenbach, 1843) (L5 129, FES IV 295): EJ WJ NEZ (5) – Hol., het. on I: Crataegus, II: Umbelliferae, e.g. Daucus carota.
- hirsutissima* (Börner, 1940) (91, FES IV 296): *WJ NWZ NEZ (3) – Hol., mon. on Anthriscus silvestris.
- lappae* subsp. *cirsii* (Börner, 1950) (82, FES IV 297): NEZ (1) – Hol., mon. on roots of Cirsium arvense.
- radicola* (Mordvilko, 1897) (L5 130, FES IV 301): NEZ (2) – Predominantly anhol. on roots of Rumex.
- ranunculi* (Kaltenbach, 1843) (L5 131, FES IV 302): NEZ (2) – Hol., het. on I: Crataegus, II: Ranunculus.
- tulipae* (Boyer de Fonscolombe, 1841) (L5 132, FES IV 303): NEZ (2) – Anhol. on monocotyledonous plants, e.g. Tulipa, Iris, Gladiolus, Crocus, Lilium and Arum.
- (Subg. *Pomaphis* Börner, 1939)
- maritima* (Hille Ris Lambers, 1955) (91, FES IV 305): EJ (1) – Hol., mon. on Plantago maritima and coronopus.
- plantaginea* (Passerini, 1860) (L5 133, FES IV 306): SJ EJ WJ NWJ F LFM SZ NEZ *B (22) –

- Hol., het. on I: *Malus*, II: *Plantago*, mainly lanceolata.
pyri (Boyer de Fonscolombe, 1841) (L5 134, FES IV 307): SZ NEZ (2) – Hol., het. on I: *Pyrus communis*, II: *Galium*.
sorbi (Kaltenbach, 1843) (L5 135, FES IV 308): *SJ EJ WJ NWJ NEJ F NWZ NEZ (35) – Hol., het. on I: *Sorbus aucuparia*, II: *Campanula*, *Jasione*.
- Ceruraphis** Börner, 1926
eriphori (Walker, 1848) (L5 138, FES IV 309): EJ WJ NWJ LFM NEZ (8) – Hol., het. on I: *Viburnum*, II: *Eriophorum*, *Carex*, *Typha*, *Luzula*.
- Hayhurstia** del Guercio, 1917
atriplicis (Linné, 1761) (L5 110, FES IV 310): All districts (117) – Hol., mon. on *Chenopodium* and *Atriplex*.
cucubali (Passerini, 1863) (L5 111, FES IV 311): SZ NWZ B (7) – Hol., mon. on *Silene*.
- Brachycolus** Buckton, 1879
cerastii (Kaltenbach, 1846) (L5 106, FES IV 312): F LFM NWZ (3) – On *Cerastium*, mainly *arvense*.
stellariae (Hardy, 1850) (L5 107, FES IV 313): EJ NWJ NEJ F NEZ (8) – Hol., mon. on *Stellaria*.
- Diuraphis** Aizenberg, 1935
muehlei (Börner, 1950) (81, FES IV 314): NEZ (1) – Hol., mon. on *Phleum pratense*.
(Subg. **Holcaphis** Hille Ris Lambers, 1939)
agrostidis (Muddathir, 1965) (73, FES IV 315): NWJ NEJ NEZ (3) – Hol., mon. on *Agrostis stolonifera*.
frequens (Walker, 1848) (L5 108, FES IV 317): SJ EJ WJ NWJ NEJ NEZ (9) – Hol., mon. on *Agropyrum repens*.
holci (Hille Ris Lambers, 1956) (L5 109, FES IV 318): EJ WJ NWJ NEJ *NWZ (9) – Hol., mon. on *Holcus*.
- Brevicoryne** van der Goot, 1915
brassicae (Linné, 1758) (L5 112, FES IV 319): All districts (70) – Hol., mon. on *Cruciferae*, e.g. *Brassica*, *Lepidium*, *Sinapis* and *Raphanus*, and on *Tropaeolum*.
- Pseudobrevicoryne** Heinze, 1960
buhri (Börner, 1952) (81, FES IV 320): NEZ (1) – On *Barbarea*.
- Lipaphis** Mordvilko, 1928
erysimi (Kaltenbach, 1843) (L5 113, FES IV 322): SJ EJ WJ NWJ NEJ F LFM SZ NEZ (30) – Hol., mon. on *Cruciferae*.
rossi Börner, 1939 (L5 114, FES IV 324): NEZ (1) – On *Arabis hirsuta*.
turritella (Wahlgren, 1938) (L5 115, FES IV 325): SZ NEZ (3) – On *Turritis glabra*.
- Hyadaphis** Kirkaldy, 1904
foeniculi (Passerini, 1860) (L5 118, FES IV 326): SJ EJ WJ NWJ NEJ F LFM NEZ B (18) – Hol., het. on I: *Lonicera*, II: *Umbelliferae*.
- Semiaphis** van der Goot, 1913
dauci (Fabricius, 1775) (L5 116, FES IV 331): *LFM NEZ (2) – On *Daucus carota*.
pimpinellae (Kaltenbach, 1843) (L5 117, FES IV 332): NEJ NEZ (2) – On *Pimpinella saxifraga*.
- Hydaphias** Börner, 1930
hofmanni Börner, 1950 (L5 119, FES IV 333): NEJ SZ NEZ B (5) – Hol., mon. on *Galium verum*.
- Staegeriella** Hille Ris Lambers, 1947
necopinata (Börner, 1939) (81, FES IV 335): SJ NEZ (2) – Hol., mon. on *Galium*.
- Aspidaphis** Gillette, 1917
adjuvans (Walker, 1848) (72, FES IV 336): EJ WJ NWJ F NEZ (9) – Hol., mon. on *Polygonum aviculare*.
- Coloradoa** Wilson, 1910

- absinthiella* Ossiannilsson, 1962 (73, FES IV 338): F (1): – On *Artemisia absinthium*.
- achilleae* Hille Ris Lambers, 1939 (L4 101, FES IV 340): EJ WJ NWJ NEJ F SZ (38) – Hol., mon. on *Achillea millefolium*.
- artemisiae* (del Guercio, 1913) (L4 102, FES IV 341): EJ WJ NWJ F NWZ NEZ (14) – Hol., mon. on *Artemisia vulgaris*.
- campestrella* Ossiannilsson, 1959 (76, FES IV 342): NEJ *SZ (2) – Hol., mon. on *Artemisia campestris*.
- heinzei* (Börner, 1952) (L4 104, FES IV 344): SJ EJ NEJ F (6) – On *Artemisia maritima*.
- submissa* Doncaster, 1961 (L4 105, FES IV 347): NEJ *NEZ (2) – Hol., mon. on *Artemisia maritima*.
- tanacetina* (Walker, 1850) (L4 103, FES IV 348): SJ EJ WJ NWJ NEJ F (13) – Hol., mon. on *Tanacetum vulgare*.
- Longicaudus** van der Goot, 1913
- trirhodus* (Walker, 1849) (L4 80, FES IV 349): SJ EJ WJ NWJ NEJ F LFM *SZ NEZ *B (28) – Hol., het. on I: *Rosa*, II: *Aquilegia*, *Thalictrum*.
- Myzaphis** van der Goot, 1913
- rosarum* (Kaltenbach, 1843) (L4 83, FES IV 350): SJ EJ WJ NWJ NEJ F LFM NWZ NEZ (53) – Hol., mon. on *Rosa*, *Dasiphora* (*Potentilla*) *fruticosa*.
- Ericaphis** Börner, 1939
- ericae* (Börner, 1933) (L4 81, FES IV 352): WJ NWJ NEJ (8) – Hol., mon. on *Erica tetralix*.
- latifrons* (Börner, 1942) (L4 82, FES IV 353): WJ NWJ NEJ (8) – Hol., mon. on *Empetrum nigrum*, *Vaccinium uliginosum*, rarely *Calluna vulgaris*.
- Elatobium** Mordvilko, 1914
- abietinum* (Walker, 1849) (L4 96, FES IV 354): SJ EJ WJ NWJ NEJ F SZ NWZ NEZ (56) – Both hol. and anhol., mon. on *Picea*, predominantly *sitchensis*.
- Liosomaphis** Walker, 1868
- berberidis* (Kaltenbach, 1843) (L4 95, FES IV 355): All districts (83) – Hol., mon. on *Berberis*, *Mahonia*.
- Cavariella** del Guercio, 1911
- aegopodii* (Scopoli, 1763) (L4 97, FES IV 356): SJ EJ WJ NWJ NEJ F LFM SZ NWZ NEZ (37) – Hol., het. on I: *Salix*, II: *Umbelliferae*.
- archangelicae* (Scopoli, 1763) (L4 98, FES IV 357): EJ WJ NWJ NEJ F NEZ (16) – Hol., het. on I: *Salix*, II: *Angelica*.
- konoii* Takahashi, 1939 (72, FES IV 358): NWJ LFM SZ NEZ (8) – Hol., het. on I: *Salix*, II: *Umbelliferae*, e.g. *Angelica* and *Myrrhis*.
- pastinacae* (Linné, 1758) (L4 99, FES IV 359): SJ EJ WJ NWJ NEJ F LFM SZ NEZ (30) – Hol., het. on I: *Salix*, II: *Umbelliferae*, mainly *Heracleum*, *Pastinaca* and *Angelica*.
- theobaldi* (Gillette & Bragg, 1918) (L4 100, FES IV 360): SJ EJ WJ NWJ NEJ F LFM SZ NWZ NEZ (27) – Hol., het. on I: *Salix*, II: *Umbelliferae*, mainly *Heracleum* and *Pastinaca*.
- Galiobium** Börner, 1933
- langei* (Börner, 1933) (FES IV 363): NWJ (1, Skive) – Hol., mon. on *Galium*.
- Trichosiphonaphis** Takahashi, 1922
(Subg. *Xenomyzus* Aizenberg, 1935)
- corticis* (Aizenberg, 1935) (81, FES IV 366): NEZ (1) – On *Xylosteum* (*Lonicera*) *vulgare*.
- Muscaphis** Börner, 1933
- musci* Börner, 1933 (91, FES IV 368): NWJ (1) – On mosses.
- Aspidaphium** Börner, 1939
- escherichi* Börner, 1939 (72, FES IV 369): *EJ NEJ NEZ (3) – On mosses.
- Pseudacaudella** Börner, 1944
- rubida* (Börner, 1939) (81, FES IV 370): NWJ NEZ (2) – Anhol. on mosses.
- Decorosiphon** Börner, 1939
- corynothrix* Börner, 1939 (L7 212, FES IV 372): *EJ NEJ NEZ (4) – Anhol. on mosses.

Ovatus van der Goot, 1913

crataegarius (Walker, 1850) (L4 93, FES V 373): EJ WJ NWJ F LFM NEZ (8) – Hol., het. on I: Crataegus a.o. Pomaceae, e.g. Cydonia, II: Mentha.

insitus (Walker, 1849) (L4 94, FES V 375): SJ EJ NWJ NEJ NEZ (14) – Hol., het. on I: Crataegus, Mespilus, II: Lycopus europaeus.

Phorodon Passerini, 1860

humuli (Schrank, 1801) (L4 92, FES V 377): SJ EJ WJ NWJ NEJ F LFM SZ NEZ *B (40) – Hol., het. on I: Prunus, predominantly spinosa, II: Humulus lupulus.

Myzus Passerini, 1860

cerasi (Fabricius, 1775) (L4 84, FES V 380): All districts (92) – Hol., het. on I: Cerasus, Prunus serrulata, II: Galium, Veronica a.o. herbs.

lythri (Schrank, 1801) (L4 85, FES V 381): SJ WJ NWJ NEJ NEZ (7) – Hol., het. on I: Prunus mahaleb, II: Lythrum, rarely Epilobium and Fuchsia.

ornatus Laing, 1932 (L4 86, FES V 382): SJ NWJ F SZ NEZ (9) – Anhol. on many herbaceous plants, e.g. Stellaria media, Malva, Myosotis, Cineraria and Fuchsia.

(Subg. **Nectarosiphon** Schouteden, 1901)

ajugae Schouteden, 1903 (73, FES V384): NEZ (1) – Hol., mon. on Ajuga.

ascalonicus Doncaster, 1946 (L4 87, FES V 385): SJ EJ WJ NWJ NEJ F LFM SZ NWZ NEZ (50) – Anhol. on many herbaceous plants, e.g. Allium, Tulipa, Gladiolus, Stellaria media, Brassica napus, Capsella bursa-pastoris, Geranium, Fragaria, Myosotis, Veronica, Matricaria and Chrysanthemum.

certus (Walker, 1849) (L4 88, FES V 386): SJ EJ WJ NWJ NEJ F LFM SZ NEZ (28) – Hol., mon. on Cerastium, Stellaria, Viola tricolor.

dianthicola Hille Ris Lambers, 1966 (72, FES V 387): NEZ (2) – Anhol. on Dianthus, indoors only.

ligustri (Mosley, 1841) (L4 89, FES V 388): SJ EJ WJ NWJ NEJ F LFM SZ NWZ NEZ (37) – Hol., mon. on Ligustrum.

persicae (Sulzer, 1776) (L4 90, FES V 390): All districts (242) – Hol., het. on I: Prunus, predominantly persica, II: many plants, e.g. Tulipa, Dianthus, Stellaria, Cerastium, Beta, Chenopodium, Brassica, Capsella, Malva, Hibiscus, Solanum and Spinacia. Also anhol. on secondary hosts.

Tubaphis Hille Ris Lambers, 1947

ranunculina (Walker, 1852) (L4 91, FES V 391): SJ NEJ NEZ (4) – Hol., mon. on Ranunculus.

Ovatomyzus Hille Ris Lambers, 1947

calaminthae (Macchiati, 1885) (73, FES V 392): EJ NWJ NEZ (5) – Anhol. on Boraginaceae and Labiatae.

chamaedrys (Passerini, 1879) (91, FES V 393): NEZ (1) – On Teucrium.

stachyos Hille Ris Lambers, 1947 (73, FES V 394): *SJ EJ WJ NWJ NEJ NWZ NEZ (11) – Anhol. on Stachys germanica and lanata (“lambs’ ears”).

Rhopalomyzus Mordvilko, 1921

poae (Gillette, 1908) (73, FES V 395): NEZ (1) – Hol., het. on I: Lonicera alpigena, II: Gramineae, e.g. Poa.

(Subg. **Judenkoa** Hille Ris Lambers, 1946)

lonicerae (Siebold, 1839) (L3 67, FES V 396): EJ WJ NWJ NEJ LFM SZ NEZ (10) – Hol., het. on I: Lonicera, II: Gramineae, e.g. Baldingera arundinaceae.

Jacksonia Theobald, 1923

papillata Theobald, 1923 (FES V 397): SZ (1, Hesede Forest) – Anhol. on Gramineae, occasionally found on other herbaceous plants.

Pseudorhopalosiphoninus Heinze, 1961

calthae (Koch, 1854) (L3 65, FES V 398): WJ NEJ F NEZ (4) – Hol., mon. on Caltha palustris.

Myzosphon Hille Ris Lambers, 1946

ribesinum (van der Goot, 1912) (81, FES V 399): NEZ (1) – Hol., mon. on *Ribes*, predominantly *rubrum*.

tulipaellum (Theobald, 1916) (L3 66, FES V 401): WJ NWJ F NEZ (7) – Predominantly anhol. on many herbaceous plants, e.g. *Beta* in clamps.

Nasonovia Mordvilko, Mordvilko, 1914

compositellae subsp. *nigra* (Hille Ris Lambers, 1931) (72, FES V 403a): SJ NWJ LFM NEZ (5) – On *Hieracium*, e.g. *silvaticum*.

pilosellae (Börner, 1933) (L3 63, FES V 404): EJ WJ NWJ NEJ NWZ NEZ (16) – Hol., mon. on *Hieracium pilosella* and *aurantiacum*.

ribisnigri (Mosley, 1841) (L3 64, FES V 405): SJ EJ WJ NWJ NEJ F LFM SZ NEZ B (67) – Hol., het. on I: *Ribes*, II: *Compositae* (e.g. *Hieracium*, *Lapsana*, *Cichorium*), *Scrophulariaceae* (e.g. *Euphrasia*, *Veronica*), *Solanaceae* (*Petunia*).

Hyperomyzus Börner, 1933

lactucae (Linné, 1758) (L3 59, FES V 409): All districts (173) – Hol., het. on I: *Ribes*, primarily *nigrum*, II: *Sonchus*.

lampsanae (Börner, 1932) (L3 60, FES V 410): SJ EJ WJ NWJ NEJ F LFM SZ NWZ NEZ (47) – Hol., mon. on *Lapsana communis*.

pallidus Hille Ris Lambers, 1935 (L3 61, FES V 411): SJ EJ WJ NWJ NEJ F LFM SZ NEZ B (51) – Hol., het. on I: *Ribes*, primarily *uva-crispa*, II: *Sonchus arvensis*.

(Subg. **Hyperomyzella** Hille Ris Lambers, 1949)

rhinanthi (Schoutedden, 1903) (L3 62, FES V 412): EJ WJ NWJ NEJ NEZ (23) – Hol., het. on *Ribes rubrum*, II: *Rhinanthus*.

(Subg. **Neonasonovia** Hille Ris Lambers, 1949)

hieracii (Börner, 1939) (76, FES V 413): F (1) – On *Hieracium*.

Impatiens Mordvilko, 1914

asiaticum Nevsky, 1929 (73, FES V 417): EJ SZ NWZ NEZ (13) – Hol., mon. on *Impatiens parviflora*.

balsamines (Kaltenbach, 1862) (L2 46, FES V 418): SJ EJ NWJ SZ NEZ (17) – Hol., mon. on *Impatiens noli-tangere*.

Idiopterus Davis, 1909

nephrolepidis Davis, 1909 (L3 55, FES V 419): F NEZ (2) – Anhol. on ferns, indoors.

Pentalonia Coquerel, 1859

nigronervosa Coquerel, 1859 (86, FES V 420): F (1) – Anhol. on *Musa*, *Caladium*, *Strelitzia* a.o. tropical plants, mainly monocots.

Hyalopteroides Theobald, 1916

humilis (Walker, 1852) (L3 54, FES V 421): SJ EJ WJ NWJ NEJ F LFM SZ NWZ NEZ (26) – Hol., mon. on *Dactylis glomerata*.

Chaetosiphon Mordvilko, 1914

(Subg. **Pentatrachopus** Börner, 1930)

potentillae (Walker, 1850) (L3 68, FES V 424): SJ EJ WJ NWJ NEJ F LFM NWZ NEZ (34) – Hol., mon. on *Potentilla anserina*.

tetrarhodum (Walker, 1849) (L3 69, FES V 425): All districts (*B) (85) – Hol., mon. on *Rosa*.

Cryptomyzus Oestlund, 1922

alboapicalis (Theobald, 1916) (82, FES V 426): SJ EJ NWZ NEZ (6) – Hol., mon. on *Labiatae*, primarily *Lamium album*.

galeopsidis (Kaltenbach, 1843) (L3 70, FES V 427): SJ EJ WJ NWJ NEJ F LFM SZ NWZ NEZ (56) – Hol., het. on I: *Ribes*, mainly *nigrum*, II: *Labiatae* (e.g. *Galeopsis* and red-flowered *Lamium* spp.) and *Veronica*, or mon. on *Ribes*.

korschelti Börner, 1938 (L3 71, FES V 428): SJ EJ WJ F LFM SZ NWZ NEZ (21) – Hol., het. on I: *Ribes alpinum*, II: *Stachys silvatica*.

ribis (Linné, 1758) (L3 72, FES V 429): SJ EJ WJ NWJ NEJ F LFM SZ NEZ B (30) – Hol., het. on I: *Ribes*, mainly *rubrum*, II: *Stachys*, or mon. on *Ribes*.

Capitophorus van der Goot, 1913

carduimus (Walker, 1850) (L3 75, FES V 431): NWJ LFM NEZ (5) – Hol., mon. on *Cirsium*, *Carduus*.

elaeagni (del Guercio, 1894) (L3 76, FES V 432): SZ NEZ (2) – Hol., het. on I: *Hippophaë*, *Elaeagnus*, II: *Cirsium*, *Carduus*, *Cynara*.

hippophaes (Walker, 1852) (L3 77, FES V 433): SJ EJ WJ NWJ NEJ F LFM SZ NEZ B (52) – Hol., het. on I: *Hippophaë*, *Elaeagnus*, II: *Polygonum*.

horni Börner, 1931 s.str. (FES V 434a): *SJ EJ F (4) – Hol., mon. on *Cirsium oleraceum*.

horni subsp. *gynoxantha* Hille Ris Lambers, 1953 (L3 78, FES V 434b): NWJ NEJ SZ NEZ (6) – Hol., mon. on *Cirsium arvense* and *lanceolatum*.

pakansus Hottes & Frison, 1931 (73, FES V 435): EJ NEZ (2) – Hol., het. on I: *Elaeagnus*, II: *Inula*, e.g. *helenium*.

similis van der Goot, 1915 (L3 79, FES V 436): SJ EJ WJ NWJ NEJ F LFM SZ NWZ NEZ (62) – Hol., het. on I: *Hippophaë*, *Elaeagnus*, II: *Tussilago*, *Petasites*.

Pleotrichophorus Börner, 1930

deviatus F.P.Müller, 1972 (82, FES V 437): EJ (1) – Hol., mon. on *Hieracium*.

duponti Hille Ris Lambers, 1935 (L7 210, FES V 438): EJ NEJ NEZ (3) – Hol., mon. on *Achillea millefolium*.

glandulosus (Kaltenbach, 1846) (L3 74, FES V 439): SJ EJ WJ NWJ NEJ F LFM SZ NEZ (32) – Hol., mon. on *Artemisia vulgaris*, perhaps also *Chrysanthemum*.

helichrysi Bozhko, 1963 (L3 73, FES V 440): EJ (1) – On *Gnaphalium* (*Helichrysum*) *arenarium*.

persimilis Börner, 1950 (82, FES V 441): NEJ (1) – Hol., mon. on *Artemisia campestris*.

Cryptaphis Hille Ris Lambers, 1947

poae (Hardy, 1850) (82, FES V 442): NWJ (1) – Hol., mon. on Gramineae, e.g. *Festuca* and *Holcus*.

Acyrtosiphon Mordvilko, 1914

auctum (Walker, 1849) (L2 37, FES V 443): EJ WJ NWJ NEJ (9) – Hol., mon. on *Honckenya peploides*, *Cakile maritima*.

caraganae (Cholodkovsky, 1907) (L2 38, FES V 447): EJ NWJ NEJ F LFM NEZ (14) – Hol., mon. on *Caragana*, *Colutea*, *Cytisus*.

ignotum Mordvilko, 1914 (L7 206, FES V 448): SJ EJ WJ NWJ NEJ LFM *SZ NWZ NEZ (29) – On *Spiraea*.

loti (Theobald, 1913) (L2 40, FES V 451): WJ NWJ NEJ F SZ (5) – Hol., mon. on *Lotus* a.o. *Leguminosae*.

pelargonii (Kaltenbach, 1843) (= *malvae* (Mosley, 1841) of authors) s.str. (L2 41, FES V 453a): *SJ EJ WJ NWJ NEJ F LFM NWZ NEZ (22) – Hol., mon. on *Geranium*, *Erodium* a.o. herbs, or anhol. indoors on e.g. *Pelargonium*.

pelargonii subsp. *agrimoniae* (Börner, 1940) (L2 41, FES V 453b): NEJ (1) – Hol., mon. on *Agrimonia*.

pelargonii subsp. *rogersii* (Theobald, 1913) (L2 41, FES V 453d): WJ NWJ F LFM NEZ (11) – Hol., mon. on *Fragaria*.

pisum (Harris, 1776) s.str. (L2 42, 454a): SJ EJ WJ NWJ NEJ F SZ NWZ NEZ B (69) – Hol., mon. on *Leguminosae* (e.g. *Pisum*, *Medicago*, *Lathyrus*, *Lotus*, *Trifolium*, *Sarothamnus*, *Vicia*, *Caragana*) and *Capsella bursa-pastoris*.

pisum subsp. *ononis* (Koch, 1855) (L2 42, FES V 454b): EJ WJ NWJ NEJ F NWZ (11) – On *Ononis*.

(Subg. **Liporrhinus** Börner, 1939)

chelidonii (Kaltenbach, 1843) (L2 39, FES V 455): F NEZ (3) – Hol., mon. on *Chelidonium majus*.

Microlophium Mordvilko, 1914

carnosum (Buckton, 1876) (= *evansi* (Theobald, 1923)) (L3 53, FES V 456): EJ NWJ NEJ F LFM NEZ (22) – Hol., mon. on *Urtica dioica*.

primulae (Theobald, 1913) (81, FES V 457): NEZ (1) – Anhol. on *Primula*.

sibiricum (Mordvilko, 1914) (L3 52, FES V 458): WJ SZ (2) – Hol., mon. on *Urtica*, predominantly *urens*.

Anthracosiphon Hille Ris Lambers, 1947

hertae Hille Ris Lambers, 1947 (73, FES V 459): NEZ (1) – Hol., mon. on *Potentilla anserina*, *Comarum palustre*.

Aulacorthum Mordvilko, 1914

cylactis Börner, 1942 (L2 47, FES V 463): NEJ (1) – Hol., mon. on *Rubus saxatilis*.

flavum F.P.Müller, 1958 (L7 207, FES V 464): WJ NEJ (2) – Hol., mon. on *Vaccinium uliginosum*.

knautiae Heie, 1960 (L2 48, FES V 465): SJ EJ WJ NWJ NEJ (28) – Hol., mon. on *Knautia arvensis*.

majanthemi F.P.Müller, 1956 (L2 49, FES V 466): NEJ (1) – Hol., mon. on *Majanthemum bifolium*.

palustre Hille Ris Lambers, 1947 (81, FES V 467): NEZ (1) – On liguliflorous Compositae, e.g. *Leontodon*, *Taraxacum*, *Hypochoeris*.

solani (Kaltenbach, 1843) (L2 50, FES V 469): All districts (70) – Predominantly anhol. and overwintering indoors, occasionally hol., mon. on many plants, e.g. *Solanum tuberosum*, *Stellaria*, *Beta*, *Urtica urens*, *Capsella bursa-pastoris*, *Fragaria*, *Veronica*, *Tulipa*, *Chrysanthemum*.

speyeri Börner, 1939 (81, FES V 470): NEZ (1) – Hol., mon. on *Convallaria majalis*, *Polygonatum multiflorum*.

(Subg. *Neomyzus* van der Goot, 1915)

circumflexum (Buckton, 1876) (L2 51, FES V 472): EJ NWJ SZ NEZ (12) – Anhol. on many plants, e.g. *Cyclamen*, *Iris*, *Tradescantia*, *Zantedeschia*, *Fuchsia* and *Ficus* indoors.

Rhodobium Hille Ris Lambers, 1947

porosum (Sanderson, 1900) (72, FES V 473): EJ LFM NEZ (3) – Probably anhol. (in N Europe, but hol. in N America) on *Rosa*, in America also *Fragaria*.

Metopolophium Mordvilko, 1914

albidum Hille Ris Lambers, 1947 (73, FES V 474): SZ NEZ (2) – Hol., mon. on Gramineae, mainly *Arrhenatherum elatius*.

dirhodum (Walker, 1849) (L2 44, FES V 475): All districts (50) – Hol., het. on I: *Rosa*, II: Gramineae.

festucae (Theobald, 1917) (L2 45, FES V 476a): EJ NWJ NEJ NEZ (4) – Hol., mon. on Gramineae.

Sitobion Mordvilko, 1914

avenae (Fabricius, 1775) (L2 32, FES V 479): SJ EJ WJ NWJ NEJ F LFM SZ NEZ B (36) – Hol., mon. on monocotyledones, mainly Gramineae.

fragariae (Walker, 1848) (L2 33, FES V 482): EJ WJ NWJ NEJ F LFM SZ NWZ NEZ (18) – Hol., het. on I: *Rubus fruticosus*, perhaps also *Rosa*, *Fragaria*, *Geum*, II: Gramineae and perhaps also *Juncaceae*.

Macrosiphum Passerini, 1860

albifrons Essig, 1911 (91, FES V 486): LFM NEZ (2) – Anhol. (in Europe, hol. in N America, from where it has been introduced) on *Lupinus*.

cholodkovskiyi (Mordvilko, 1909) (L2 24, FES V 487): SJ EJ WJ NWJ NEJ F LFM NWZ NEZ (14) – Hol., mon. on *Filipendula ulmaria* (= *Ulmaria palustris*).

daphnidis Börner, 1940 (L7 204, FES V 488): B (1) – Hol., mon. on *Daphne mezereum*.

epilobiellum Theobald, 1923 (L2 25, FES V 489): *SJ EJ NWJ F SZ NEZ (16) – Hol., mon. on *Epilobium*, predominantly *montanum*.

euphorbiae (Thomas, 1878) (L2 26, FES V 490): SJ EJ WJ NWJ F LFM SZ NWZ NEZ *B (49) – Hol., but predominantly anhol., probably originally het. on I: Rosa, II: many herbaceous plants, but – in Europe at least – now mon. on many plants, e.g. Rosa, Solanum tuberosum, Lactuca sativa, Capsella bursa-pastoris, Senecio, Aquilegia, Thalictrum, Pulsatilla, Tulipa, Dianthus, Stellaria.

funestum (Macchiati, 1885) (L2 27, FES V 491): SJ EJ WJ NWJ F LFM NWZ NEZ (32) – Hol., mon. on Rubus fruticosus-group.

gei (Koch, 1855) (L2 28, FES V 492): All districts (50) – Hol., mon. on Geum urbanum, Anthriscus silvestris, Torilis japonica.

lisae Heie, 1965 (L7 205, FES V 494): EJ WJ NWJ NEJ (8) – Hol., mon. on Chamaenerium angustifolium.

rosae (Linné, 1758) (L2 29, FES V 497): All districts (183) – Hol., het. on I: Rosa, II: Dipsacaceae, Valerianaceae.

silenium Theobald, 1913 (L2 30, FES V 499): EJ (1) – On Silene cucubalus.

stellariae Theobald, 1913 (L2 31, FES V 500): EJ NEJ (3) – On various herbs, predominantly Stellaria holostea.

Corylobium Mordvilko, 1914

avellanae (Schrank, 1801) (L2 36, FES V 503): SJ EJ F LFM SZ NEZ (17) – Hol., mon. on Corylus avellana.

Illinoia Wilson, 1910

azaleae (Mason, 1910) (72, FES VI 504): NEZ (2) – On Azalea and Rhododendron, mainly or exclusively indoors.

(Subg. *Masonaphis* Hille Ris Lambers, 1939)

lambersi (MacGillivray, 1960) (76, FES VI 505): *SJ EJ NWJ NEZ (4) – Probably mainly or exclusively anhol., on Rhododendron.

Delphinobium Mordvilko, 1914

junackianum (Karsch, 1887) (L2 35, FES VI 506): EJ WJ NWJ NEJ NEZ (11) – Hol., mon. on Aconitum, Delphinium.

Macrosiphoniella del Guercio, 1911

abrotani (Walker, 1852) (76, FES VI 507): EJ NEZ (2) – Hol., mon. on Artemisia abrotanum, Matricaria (Tripleurospermum) indoors.

absinthii (Linné, 1758) (86, FES VI 508): SJ NEZ (2) – On Artemisia absinthium.

artemisiae (Boyer de Fonscolombe, 1841) (L1 1, FES VI 509): All districts (106) – Hol., mon. on Artemisia vulgaris.

dimidiata Börner, 1942 (82, FES VI 510): NEJ (1) – On Artemisia campestris.

millefolii (DeGeer, 1773) (L1 2, FES VI 511): All districts (108) – Hol., mon. on Achillea millefolium, occasionally other Achillea spp. and Chrysanthemum leucanthemum.

oblonga (Mordvilko, 1901) (L1 3, FES VI 512): SJ EJ WJ NWJ F NEZ (17) – Hol., mon. on Artemisia vulgaris and Chrysanthemum.

obtecta (Börner, 1950) (L1 4, FES VI 513): NWJ NEJ (4) – On Centaurea, e.g. cyanus and scabiosa.

persequens (Walker, 1852) (73, FES VI 514): SJ EJ WJ NWJ NEJ SZ NEZ (12) – Hol., mon. on Tanacetum vulgare.

ptarmicae Hille Ris Lambers, 1956(73, FES VI 515): EJ WJ (3) – Hol., mon. on Achillea ptarmica.

pulvera (Walker, 1848) (L1 5, FES VI 516): SJ EJ NEJ F NEZ (9) – On Artemisia maritima.

sanborni (Gillette, 1908) (L1 6, FES VI 517): NEZ (1) – Anhol. on Chrysanthemum.

sejuncta (Walker, 1848) (L1 7, FES VI 518): SJ WJ NWJ NEJ LFM NEZ (13) – Hol., mon. on Achillea millefolium.

subterranea (Koch, 1855) (= *trimaculata* Hille Ris Lambers, 1938) (76, FES VI 519): NWJ NEZ (2) – Hol., mon. on Chrysanthemum.

tanacetaria (Kaltenbach, 1843) (L1 8, FES VI 520): SJ EJ WJ NWJ NEJ F LFM NWZ NEZ

- (41) – Hol., mon. on Tanacetum, Chrysanthemum, Matricaria.
tapuskae (Hottes & Frison, 1931) (76, FES VI 521): NWJ NEJ NEZ (5) – Hol., mon. on Achillea millefolium, Matricaria.
usquertensis Hille Ris Lambers, 1935 ((L1 9, FES VI 522): EJ WJ NWJ NEJ NEZ (15) – Hol., mon. on Achillea millefolium.
- (Subg. **Asterobium** Hille Ris Lambers, 1938)
asteris (Walker, 1849) (L1 10, FES VI 523): NWJ NEJ NEZ (3) – Hol., mon. on Aster tripolium.
- (Subg. **Ramitrichophorus** Hille Ris Lambers, 1947)
hillerislambersi Ossiannilsson, 1954 (L7 202, FES VI 524): EJ (1) – On Gnaphalium (Helichrysum) arenarium.
- Staticobium** Mordvilko, 1914
staticis (Theobald, 1923) (73, FES VI 525): WJ (1) – Hol., mon. on Statice limonium (= Limonium vulgare).
- Uroleucon** Mordvilko, 1914
achilleae (Koch, 1855) (L1 11, FES VI 526): EJ WJ NWJ NEJ SZ NEZ (30) – Hol., mon. on Achillea millefolium.
cichorii (Koch, 1855) (L1 12, FES VI 527): EJ F LFM NWZ NEZ B (13) – Hol., mon. on Cichorium intybus, rarely Taraxacum and other liguliflorous Compositae.
cirsii (Linné, 1758) (L1 13, FES VI 528): SJ EJ WJ NWJ NEJ F LFM SZ NWZ NEZ (50) – Hol., mon. on Cirsium.
grossum (Hille Ris Lambers, 1939) (L1 12, FES VI 529): EJ NWJ F NEZ (7) – Hol., mon. on Crepis.
hypochoeridis (Hille Ris Lambers, 1939) (L1 14, FES VI 530): SJ EJ WJ NWJ NEJ NEZ B (57) – Hol., mon. on Hypochoeris and Leontodon autumnalis, rarely Taraxacum.
jaceicola (Hille Ris Lambers, 1939) (L7 203, FES VI 532): NEZ (1) – Hol., mon. on Centaurea jacea.
muralis (Buckton, 1876) (L1 15, FES VI 533): EJ NWJ NEJ F NEZ *B (16) – On Lactuca muralis.
obscurum (Koch, 1855) (L1 16, FES VI 534): EJ WJ NWJ NEJ (15) – Hol., mon. on Hieracium, e.g. umbellatum.
sonchi (Linné, 1767) (L1 17, FES VI 536): SJ EJ WJ NWJ NEJ F SZ NEZ (20) – Hol., mon. on Sonchus, occasionally also Lactuca sativa, Chrysanthemum segetum and Cichorium endivia.
tanacetii (Linné, 1758) (76, FES VI 537): SJ EJ NWJ F NEZ (8) – Hol., mon. on Tanacetum.
telekiae (Holman, 1965) (91, FES VI 538): NEZ (3) – On Telekia speciosa.
tussilaginis (Walker, 1850) (L1 18, FES VI 539): SJ EJ WJ NWJ NEJ F NEZ (19) – Hol., mon. on Tussilago farfara.
- (Subg. **Lambersius** Olive, 1965)
erigeronensis (Thomas, 1878) (91, FES VI 540): NEZ (1) – Hol., mon. on Erigeron canadensis and annuus.
- (Subg. **Uromelan** Mordvilko, 1914)
aeneum (Hille Ris Lambers, 1939) (L1 19, FES VI 541): EJ F LFM SZ NEZ (8) – Hol., mon. on Carduus, Cirsium.
campanulae (Kaltenbach, 1843) (L1 20, FES VI 542): NWJ NEJ NEZ (6) – Hol., mon. on Campanula (rotundifolia, rapunculus) and Jasione montana.
jaceae (Linné, 1758) (L1 21, FES VI 543): EJ WJ NWJ NEJ F LFM SZ NWZ NEZ B (23) – Hol., mon. on Centaurea, e.g. jacea and cyanus).
nigrocampanulae (Theobald, 1928) (86, FES VI 545): NEZ (1) – On Campanula (glomerata, latifolia, medium, trachelium, rapunculoides).
rapunculoidis (Börner, 1939) (76, FES VI 546): NEZ (2) – Hol., mon. on Campanula rapunculoides.

- simile* (Hille Ris Lambers, 1935) (76, FES VI 549): NWJ (1) – Hol., mon. on *Erigeron*, e.g. *acer*.
- solidaginis* (Fabricius, 1781) (L1 22, FES VI 550): EJ WJ NWJ NEJ F (8) – Hol., mon. on *Solidago virga-aurea*.
- taraxaci* (Kaltenbach, 1843) (L1 23, FES VI 551): EJ WJ NWJ SZ NEZ (6) – Hol., mon. on *Taraxacum*.
- Metopeurum** Mordvilko, 1914
fuscoviride Stroyan, 1950 (L2 34, FES VI 552): SJ EJ WJ NWJ NEJ F LFM SZ NEZ (47) – Hol., mon. on *Tanacetum vulgare*.
- Microsiphum** Cholodkovsky, 1902
millefolii Wahlgren, 1940 (86, FES VI 553): EJ NWJ (3) – Hol., mon. on *Achillea millefolium*.
- Amphorophora** Buckton, 1876
ampullata Buckton, 1876 (L7 208, FES VI 556): NEJ (1) – Hol., mon. on ferns.
gei (Börner, 1939) (L7 209, FES VI 557): NEZ (1) – Hol., mon. on *Geum*.
idaei (Börner, 1939) (82, FES VI 558): SJ EJ WJ NWJ NEJ F NEZ B (24) – Hol., mon. on *Rubus idaeus*.
rubi (Kaltenbach, 1843) (L3 56, FES VI 559): SJ EJ WJ NWJ NEJ F NWZ NEZ (22) – Hol., mon. on *Rubus fruticosus*-group.
- Megoura** Buckton, 1876
litoralis F.P.Müller. 1952 (L3 57, FES VI 560): WJ NWJ NEJ NEZ (11) – Hol., mon. on *Lathyrus maritimus*.
viciae Buckton, 1876 (L3 58, FES VI 561): SJ EJ WJ NWJ NEJ SZ NEZ (18) – Hol., mon. on Leguminosae, e.g. *Lathyrus pratensis* and *Vicia faba*.
- Megourella** Hille Ris Lambers, 1949
purpurea Hille Ris Lambers, 1949 (73, FES VI 562): WJ NWJ LFM (7) – Hol., mon. on *Lathyrus pratensis*.
tribulis (Walker, 1849) (73, FES VI 563): EJ (1) – Hol., mon. on *Vicia sepium*.

LACHNIDAE

Lachninae

Tribe Lachnini

- Lachnus** Burmeister, 1835
iliciphagus (del Guercio, 1909) (L8 233, FES VI 569): EJ WJ NWJ NEJ NWZ (5) – Hol., mon. on *Quercus*.
pallipes (Hartig, 1841) (= *exsicicator* Altum, 1882) (L8 232, FES VI 570): EJ NEJ (2) – Hol., mon. on *Fagus silvatica*.
roboris (Linné, 1758) (L8 231, FES VI 571): EJ WJ NWJ NEJ F LFM NWZ NEZ *B (34) – Hol., mon. on *Quercus*.
- Tuberolachnus** Mordvilko, 1909
salignus (Gmelin, 1790) (L8 230, FES VI 572): NEJ NEZ (2) – Anhol. on *Salix*.
- Maculolachnus** Gaumont, 1920
submacula (Walker, 1848) (73, FES VI 573): EJ NEJ (2) – Hol., mon. on *Rosa*.

Tribe Stomaphidini

- Stomaphis** Walker, 1870
quercus (Linné, 1758) (L8 234, FES VI 574): NEZ (1) – Hol., mon. on *Quercus*.

Tribe Tramini

Protrama Baker, 1920

flavescens (Koch, 1856) (L8 235, FES VI 602): *NEJ F SZ NEZ (7) – Anhol. on roots of Compositae: Anthemideae, particularly *Artemisia vulgaris*.

ranunculi (del Guercio, 1909) (L8 236, FES VI 603): SJ WJ NEJ F SZ NEZ B (12) – Anhol. on roots of *Ranunculus*.

Neotrama Baker, 1920

caudata (del Guercio, 1909) (L8 237, FES VI 604): EJ (1) – Anhol. on roots of Compositae: Liguliflorae, e.g. *Hypochoeris*, *Cichorium*, *Sonchus*, *Taraxacum* and *Leontodon*.

Trama von Heyden, 1837

rara Mordvilko, 1908 (L8 238, FES VI 606): EJ NEZ (4) Anhol. on roots of *Taraxacum*.

troglydites von Heyden, 1837 (L8 239, FES VI 607): SJ EJ WJ NWJ NEJ F LFM SZ NWZ NEZ (35) – Anhol. on roots of Compositae, e.g. *Artemisia*, *Tanacetum*, *Achillea*, *Hypochoeris*, *Leontodon*, *Lapsana*, *Sonchus*, *Taraxacum* and *Matricaria*.

Cinarinae

Tribe Eulachnini

Eulachmus del Guercio, 1909

agilis (Kaltenbach, 1843) (76, FES VI 575): NEZ (2) – On *Pinus*, e.g. *silvestris* and *mugo*.

brevipilosus Börner, 1940 (L8 213, FES VI 576): EJ NWJ NEJ F NWZ NEZ (6) – On *Pinus*, e.g. *silvestris* and *mugo*.

nigricola (Pasek, 1953) (FES VI 577): NWJ (1) – On *Pinus nigra*.

rileyi (Williams, 1911) (L8 214, FES VI 578): SJ EJ WJ NWJ NEJ F NWZ NEZ (10) – Hol., mon. on *Pinus*, mainly *nigra*.

Tribe Schizolachnini

Schizolachmus Mordvilko, 1909

obscurus Börner, 1940 (L8 215, FES VI 579): SJ EJ WJ NWJ NEJ F NEZ (10) – On *Pinus nigra*.

pineti (Fabricius, 1781) (L8 216, FES VI 580): EJ WJ NWJ NEJ F SZ NWZ NEZ B (24) – On *Pinus*.

Tribe Cinarini

Cinara Curtis, 1835

cedri Mimeur, 1936 (Harding 1997): NEZ (near Copenhagen) (1) – Hol., mon. on *Cedrus confinis* (Koch, 1856) (= *abieticola* (Cholodkovsky, 1899)) (L8 227, FES VI 582): EJ WJ NWJ NEJ NEZ (7) – On *Abies*.

costata (Zetterstedt, 1828) (L8 228, FES VI 583): EJ WJ NWJ NEJ NEZ (10) – On *Picea*.

cuneomaculata (del Guercio, 1909) (= *boernerii* Hille Ris Lambers, 1956) (73, FES VI 584): LFM NEZ (2) – On *Larix*.

cupressi (Buckton, 1881) (= *juniperina* (Mordvilko, 1895)) (L8 226, FES VI 585): NEZ (1) – On *Thuja*, *Chamaecyparis*, *Juniperus virginiana*.

juniperi (DeGeer, 1773) (L8 225, FES VI 587): EJ NWJ NEJ LFM NWZ (12) – On *Juniperus communis*.

kochiana (Börner, 1939) (L8 219, FES VI 588): WJ NEZ (3) – On *Larix*.

laricis (Hartig, 1839) (L8 220, FES VI 589): EJ NEZ (4) – On *Larix*.

pectinatae (Nördlinger, 1880) (L8 229, FES VI 591): EJ WJ NWJ NEJ F NEZ (14) – On *Abies*.

piceae (Panzer, 1801) (L8 218, FES VI 592): EJ NWJ NEJ NEZ (11) – On *Picea*.

piceicola (Cholodkovsky, 1898) (= *stroyani* Pasek, 1954) (L8 221, FES VI 593): EJ WJ NWJ NEJ F NEZ (12) – On Picea.
pilicornis (Hartig, 1841) (L8 222, FES VI 594): EJ WJ NWJ NEJ F LFM NEZ (25) – On Picea.
pilosa (Zetterstedt, 1828) (FES VI 595): NEJ (1) – On Pinus.
pinea (Mordvilko, 1895) (L8 223, FES VI 596): EJ WJ NWJ NEJ *F LFM SZ NEZ *B (19) – On Pinus.
pini (Linné, 1758) (L8 224, FES VI 597): EJ NWJ NEJ F NWZ NEZ (6) – On Pinus.
pruinosa (Hartig, 1841) (= *bogdanowi* (Mordvilko, 1895)) (L8 217, FES VI 600): WJ NWJ NEJ NEZ (4) – On Picea.

Dansk sammendrag

Listen over bladlusarter fundet i Danmark indeholder 468 arter og 5 underarter, herunder *Periphyllus californiensis*, som ikke har været rapporteret tidligere. For hver art angives nummer i "A list of Danish aphids" (L) (Heie 1960-70) eller årstal for senere tilføjelser til den pågældende liste, for Aphidoidea's vedkommende artens nummer i "Fauna entomologica scandinavica" (FES), artens udbredelse i Danmark (med de forkortelser for distrikter, der anvendes i FES), oplysning om livscyklus (hol. = arten har en generation af hanner og hunner, som lægger befrugtede æg, anhol. = arten har kun jomfrugenerationer), samt værtplanter (het. = værtskiftende, I og II = hhv. primær- og sekundærværter, mon. = ikke værtskiftende). For arter af Aphidoidea betyder stjerne (*) ud for et distrikt, at dette for de pågældende arters vedkommende ikke er angivet i FES. Tallet i parentes bag ved distriktsforkortelserne betyder antal af lokaliteter, hvor den pågældende art er observeret. To lokaliteter, der ligger tæt ved hinanden inden for et areal på ca. 0.5 km², er beregnet som en enkelt lokalitet. Det danske artsantal er 10,5% af alle arter i verden.

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