

# Location and host plant for 22 Norwegian aphids (Hemiptera)

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Unpublished localities of 22 species of aphids recorded from Norway are listed. The aphids' host plants are also given. No Norwegian localities for these aphids were mentioned by Heie in his catalogue of aphids in Fennoscandia and Denmark. Only their presence in Norway was stated.

Key words: Hemiptera, Aphididae, aphids, distribution, Norway

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## INTRODUCTION

Relatively few publications exist on aphids from Norway. Jac. Fjelddalen, Christian Stenseth and Helene Tambs-Lyche have been the main contributors to our knowledge of the distribution of aphids in Norway after 1945 (Fjelddalen 1964, Stenseth 1968, 1970, Stenseth & Bakke 1968, Tambs-Lyche 1968, 1970, Tambs-Lyche & Heie 1994). Heie (1980, 1982, 1986, 1992, 1994, 1995) gives an overview of Norwegian aphids. Some additional information is given in Tambs-Lyche & Heie (1994), and they state that 329 species of aphids are reported from Norway. In Heie (1980, 1982, 1986, 1992, 1994, 1995) the distribution in Norwegian counties is listed according to the revised Strand system (Økland 1981), however for 28 aphid species only "Norway" is given with no localities specified. In the collection of aphids at Bioforsk Plant Health and Plant Protection Division information exists on the distribution in Norway of 22 of these species. This information is presented here.

## MATERIAL & METHODS

All aphid specimens referred to in the present paper are in the collection at Bioforsk Plant Health and Plant Protection Division (former Statens Plantevern) mounted on glass slides for microscopy. They are all collected, labelled and identified by Christian Stenseth.

## RESULTS & DISCUSSION

Table 1 shows the Norwegian localities and host plants for the 22 aphid species. For three of the species Tambs-Lyche & Heie (1994) have published a few additional localities. Nearly all localities are situated in Southern Norway, and the northern limit for the distribution of 13 species coincides largely with the corresponding distribution in Sweden (Heie 1980, 1982, 1986, 1992, 1994, 1995). However, five of the species listed in Table 1 have not been recorded from Sweden according to Heie (*Tuberculatus (Tuberculoides) neglectus*, *Aphis mirifica*, *Cryptomyzus (Ampullosiphon)*

**Table 1.** Norwegian aphids: unpublished records from Stenseth's collection at Bioforsk Plant Health and Plant Protection Division

Family/species	County	EIS	Municipality	Locality	Date	Host plants
<b>MINDARIDAE</b>						
<i>Mindarus obliquus</i> (Cholodkovsky, 1896)						
	AK	28	Ås	Skogfarveien	30.VI.1967	<i>Picea engelmannii</i> , <i>P. americana</i> , <i>P. glauca</i>
	OS	45	Gjøvik	Nerby	26.VI.1969	<i>Picea</i> sp.
<b>THELAXIDAE</b>						
<i>Glyphina betulae</i> (Linné, 1758)						
	AK	28	Ås	NLH/UMB	19.VII.1969	<i>Betula verrucosa</i>
	Ø	12	Hvaler	Søndre Sandøy	10.VI.1967	<i>B. verrucosa</i>
	AAY	6	Grimstad	Vigelandsvannet	14.VII.1968	<i>Betula pubescens</i>
	SFI	50	Leikanger	Grinde	4.VII.1966	<i>Betula pendula</i>
<b>ANOECIIDAE</b>						
<i>Anoecia (Anoecia) corni</i> (Fabricius, 1775)						
	AK	28	Ås	Klommestein	25.IX.1962	-
	VE	19	Horten	Kirkebakken	6.IX.1962	swarming
	SFI	50	Leikanger	Hermansverk	27.IX.1966	<i>Cornus</i> sp.
<b>PEMPHIGIDAE</b>						
<i>Gootiella tremulae</i> Tullgren, 1925						
	RY	7	Strand	Tjøstheim	10.VIII.1965	<i>Populus tremula</i>
<i>Prociphilus (Prociphilus) fraxini</i> (Fabricius, 1777)						
	AK	28	Ås	Kaja	25.VI.1968	<i>Fraxinus excelsior</i>
<i>Forda marginata</i> Koch, 1857						
	BØ	19	Hurum	Mølen	30.VIII.1966	<i>Festuca rubra</i>
<b>DREPANOSIPHIDAE</b>						
<i>Tuberculatus (Tuberculoides) neglectus</i> (Krzwiec, 1966)						
	AK	28	Ås	Årungen	26.VI.1966	<i>Quercus petraea</i>
	AAY	6	Grimstad	Grimstad gartneri	31.VII.1967	<i>Q. petraea</i>
	AAY	6	Grimstad	Marivoll	6.VII.1972	<i>Q. petraea</i>
<i>Periphyllus acericola</i> (Walker, 1848)						
	AK	28	Frogn	-	30.V.1969	<i>Acer platanoides</i>
	AAY	6	Grimstad	Grimstad gartneri	20.VII.1967	<i>Acer pseudoplatanus</i>
	AAY	6	Grimstad	Fjære, Dybdal	11.VII.1966	<i>A. pseudoplatanus</i>
<i>Sipha (Rungisia) maydis</i> Passerini, 1860						
	Ø	19	Råde	Åven	15.VIII.1970	Poaceae
<b>APHIDIDAE</b>						
<i>Aphis mirifica</i> (Börner, 1950)						
	ON	62	Nord-Fron	Skåbu	1.VIII.1975	<i>Chamerion angustifolium</i>
<i>Aphis pilosellae</i> (Börner, 1952)						
	AK	28	Ås	NLH/UMB	VI.1966	<i>Hieracium umbellatum</i>
	BØ	19	Hurum	Mølen	30.VIII.1966	<i>H. umbellatum</i>
<i>Aphis subnitida</i> (Börner, 1940)						
	HES	46	Hamar	Domkirkeodden	23.VII.1969	<i>Pimpinella saxifraga</i>
<i>Aphis viburni</i> Scopoli, 1763						
	Ø	20	Fredrikstad	Hankøsund	13.VII.1967	<i>Viburnum opulus</i>
	Ø	20	Halden	Fredriksten festn.	19.VI.1966	<i>V. opulus</i>
	VE	28	Svelvik	Strømmen	1.VII.1966	<i>V. opulus</i>
	BV	35	Flå	-	5.VII.1966	<i>V. opulus</i>
	TEY	18	Skien	Reiersvann	17.VII.1970	<i>V. opulus</i>
	AAY	6	Grimstad	Marivoll	17.VI.1978	<i>V. opulus</i>
<i>Lipaphis (Lipaphis) turritella</i> (Wahlgren, 1938)						
	Ø	19	Moss	Tronvik	13.VI.1966	<i>Turritis glabra</i>
	Ø	12	Hvaler	Søndre Sandøy	11.VI.1967	<i>T. glabra</i>
<i>Myzus (Nectarosiphon) ligustri</i> (Mosley, 1841)						
	Ø	20	Fredrikstad	Hankøsund	13.VII.1967	<i>Ligustrum vulgare</i>
<i>Cryptomyzus (Ampullosiphon) stachydis</i> (Heikinheimo, 1955)						
	AK	28	Ås	NLH/UMB	28.VI.1968	<i>Galeopsis bifida/Ribes cultorum</i>
	AK	28	Ås	NLH/UMB	10.VI.1968	<i>G. bifida/R. cultorum</i>
	AK	28	Ås	NLH/UMB	11.VIII.1969	<i>G. bifida/R. cultorum</i>
	AK	28	Ås	NLH/UMB	24.VIII.1969	<i>G. bifida/R. cultorum</i>

Table 1. Continued

Family/species	County	EIS	Municipality	Locality	Date	Host plants
<i>Cryptomyzus (Ampullosiphon) stachydis</i> (Heikinheimo, 1955) continued						
	AK	28	Ås	NLH/UMB	29.VIII.1969	<i>G. bifida/R. cultorum</i>
	AK	28	Ås	NLH/UMB	30.VIII.1969	<i>G. bifida/R. cultorum</i>
	AK	28	Ås	NLH/UMB	10.IX.1969	<i>G. bifida/R. cultorum</i>
	AK	28	Ås	NLH/UMB	15.IX.1969	<i>G. bifida/R. cultorum</i>
	AK	28	Ås	NLH/UMB	20.V.1970	<i>G. bifida/R. cultorum</i>
	AK	28	Ås	NLH/UMB	8.VI.1970	<i>G. bifida/R. cultorum</i>
	HES	46	Stange	Staur	23.VII.1969	<i>G. bifida/R. cultorum</i>
	HES	46	Stange	Staur	23.VI.1969	<i>G. bifida/R. cultorum</i>
<i>Nasonovia (Nasonovia) pilosellae</i> (Börner, 1933)						
	AK	28	Ås	NLH/UMB	16.VIII.1971	<i>Hieracium alpinum</i>
	AK	28	Ås	NLH/UMB	18.VIII.1971	<i>H. alpinum</i>
	AK	28	Ås	NLH/UMB	3.IX.1971	<i>H. alpinum</i>
	AK	28	Ås	NLH/UMB	24.V.1972	<i>H. alpinum</i>
	AK	28	Ås	NLH/UMB	28.VI.1972	<i>H. alpinum</i>
	VE	19	Tjøme	-	25.VIII.1970	<i>Hieracium aurantiacum</i>
	ON	71	Sel	Ronden	29.VII.1971	<i>Hieracium alpinum</i>
	ON	71	Sel	Ronden	4.VIII.1971	<i>H. alpinum</i>
	ON	71	Sel	Mysusetter	VII.1976	<i>H. alpinum</i>
<i>Hyperomyzus (Hyperomyzus) lampsanae</i> (Börner, 1932)						
	AK	28	Ås	NLH/UMB	VIII.1964	in a trap
	AK	28	Ås	NLH/UMB	20.VIII.1964	in a trap
<i>Aulacorthum (Aulacorthum) flavum</i> F.P.Muller, 1958						
	AK	28	Ås	-	2.VI.1976	<i>Vaccinium uliginosum</i>
	SFI	50	Leikanger	Leikanger	20.VI.2001	<i>Vaccinium corymbosum</i> (in greenhouse)
<i>Acyrtosiphon (Acyrtosiphon) pelargonii rogersii</i> (Theobald, 1913) (syn. <i>A. malvae rogersii</i> )						
	AK	28	Ås	NLH/UMB	20.VII.1966	<i>Fragaria x ananassa (cultorum)</i>
	AK	28	Frogn	Belsø	25.IV.1968	<i>F. x ananassa (cultorum)</i>
	Ø	19	Moss	Løversbakke, Jeløya	30.V.1968	<i>F. x ananassa (cultorum)</i>
	Ø	19	Moss	Løversbakke, Jeløya	6.VI.1968	<i>F. x ananassa (cultorum)</i>
	Ø	19	Moss	Løversbakke, Jeløya	4.IX.1975	<i>F. x ananassa (cultorum)</i>
	TEI	18	Sauherad	Sauherad	7.VIII.1975	<i>F. x ananassa (cultorum)</i>
	AAY	6	Froland	Reiersøl planteskole	9.VII.1968	<i>F. x ananassa (cultorum)</i>
	AAY	6	Froland	Reiersøl planteskole	7.VII.1975	<i>F. x ananassa (cultorum)</i>
	AAY	6	Grimstad	Landvik	25.VII.1967	<i>F. x ananassa (cultorum)</i>
	AAY	6	Grimstad	Landvik	2.VI.1970	<i>F. x ananassa (cultorum)</i>
	AAY	6	Grimstad	Landvik	20.VIII.1974	<i>F. x ananassa (cultorum)</i>
	RI	14	Hjelmeland	Hjelmeland	14.VIII.1973	<i>F. x ananassa (cultorum)</i>
	RI	14	Hjelmeland	Hjelmeland	16.VIII.1974	<i>F. x ananassa (cultorum)</i>
	RI	15	Suldal	Suldal planteskole	6.VI.1975	<i>F. x ananassa (cultorum)</i>
	RI	15	Suldal	Suldal planteskole	30.VII.1975	<i>F. x ananassa (cultorum)</i>
	RI	15	Suldal	Suldal	1976	<i>F. x ananassa (cultorum)</i>
	RI	15	Suldal	Suldal	21.V.1977	<i>F. x ananassa (cultorum)</i>
	RI	15	Suldal	Suldal	18.VIII.1977	<i>F. x ananassa (cultorum)</i>
	HOI	23	Etne	Skånvik	3.VIII.1973	<i>F. x ananassa (cultorum)</i>
	HOI	23	Etne	Skånvik	6.VI.1975	<i>F. x ananassa (cultorum)</i>
	HOI	31	Kvam	Øystese	1.VIII.1975	<i>F. x ananassa (cultorum)</i>
	HOI	32	Ullensvang	Ullensvang fors.gård	1.VIII.1975	<i>F. x ananassa (cultorum)</i>
	HOI	41	Ulvik	Ulvik	21.VI.1977	<i>F. x ananassa (cultorum)</i>
	SFI	50	Balestrand	Balestrand	6.IX.1977	<i>F. x ananassa (cultorum)</i>
	SFY	68	Gloppen	Vereide	15.VII.1974	<i>F. x ananassa (cultorum)</i>
	SFY	68	Gloppen	Sandane	4.IX.1974	<i>F. x ananassa (cultorum)</i>
	SFY	68	Gloppen	Sandane	19.VI.1975	<i>F. x ananassa (cultorum)</i>
	NTI	98	Inderøy	-	VIII.1976	<i>F. x ananassa (cultorum)</i>
<i>Acyrtosiphon (Acyrtosiphon) pisum ononis</i> (Koch, 1855)						
	HES	46	Stange	Staur	23.VII.1969	<i>Ononis hircina</i>
<i>Illinoia (Masonaphis) lambersi</i> (MacGillivray, 1960)						
	VE	19	Sandefjord	-	19.V.1976	<i>Rhododendron</i> sp.

*stachydis*, *Aulacorthum* (*Aulacorthum*) *flavum* and *Illinoia* (*Masonaphis*) *lambersi*), and four species have a more northern distribution in Norway than in Sweden (*Mindarus obliquus*, *Periphyllus acericola*, *Acyrtosiphon* (*Acyrtosiphon*) *pelargonii rogersii* and *Acyrtosiphon* (*Acyrtosiphon*) *pisum ononis*). All host plants of the aphids from Norway (Table 1) belong to the plant genera listed by Heie (1980, 1982, 1986, 1992, 1994, 1995), and in most cases the host plant species are identical.

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