

THE APHIDS (HOMOPTERA: APHIDIDAE) OF BRITISH COLUMBIA  
16. FURTHER ADDITIONS

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ABSTRACT

Six species of aphids and new host records are added to the taxonomic list of the aphids of British Columbia.

INTRODUCTION

Twelve previous lists of the aphids of British Columbia (Forbes, Frazer and MacCarthy 1973; Forbes, Frazer and Chan 1974; Forbes and Chan 1976, 1978, 1980, 1981, 1983, 1984, 1985, 1986a, 1986b; Forbes, Chan and Footitt 1982) recorded 386 species of aphids collected from 865 hosts or in traps and comprises 1660 aphid-host plant associations. The present list adds 6 aphid species (indicated with an asterisk in the list) and 104 aphid-host plant associations to the previous lists. Fifty-four of the new aphid-host plant associations are plant species not recorded before. The additions bring the number of known aphid species in British Columbia to 392. Aphids have now been collected from 919 different host plants and the total number of aphid-host plant associations is 1764.

The aphid names are listed alphabetically by species and are in conformity with Eastop and Hille Ris Lambers (1976). Seven new collection sites are tabulated in Table 1. The location of each collection site can be determined from Table 1 or from the tables of localities in the previous papers. The reference points are the same as those shown on the map which accompanies the basic list (Forbes, Frazer and MacCarthy 1973).

LIST OF SPECIES

ABIETINUM (Walker), ELATOBIMUM

*Picea pungens*: Vancouver, Apr3/58.

\*ABSINTHII (Linnaeus), MACROSIPHONIELLA

*Artemisia arborescens* 'Powis Castle': Vancouver (UBC), Aug29/86.

AEGOPODI (Scopoli), CAVARIELLA

*Sium suave*: Sea Island, Jul15/59.

AGATHONICA Hottes, AMPHOROPHORA

*Rubus idaeus*: Abbotsford, Jul23/74.

ALBIFRONS Essig, MACROSIPHUM

*Lupinus arboreus*: Vancouver (UBC), Feb9/87, Aug29/86.

ALNIFOLIAE (Williams), PROCIPHILUS

*Amelanchier* sp.: Soda Creek, Jun16/56.

ANNULATUS (Hartig), TUBERCULATUS

*Quercus garryana*: Vancouver (UBC), Jun19/59.

ARUNDINARIAE (Essig), TAKECALLIS

*Pseudosasa japonica*: Vancouver (UBC), Jan7/87, Dec20/86.

ASCALONICUS Doncaster, MYZUS

*Baccharis magellanica*: Vancouver (UBC), Feb19/87.

*Crocus* sp.: Vancouver, May23/59.

*Dahlia* sp.: Vancouver, Apr13/58.

*Draba borealis*: Vancouver (UBC), Apr3/86.

*Draba ruaxes*: Vancouver (UBC), Mar15/85.

*Lilium x hollandicum*: Vancouver (UBC), May1/58.

*Phacelia heterophylla*: Vancouver (UBC), Apr3/86.

*Stellaria media*: Lulu Island, Mar24/60; Vancouver, Dec30/59.

AVELLANAE (Schrank), CORYLOBIUM

*Corylus cornuta* var. *californica*: Vancouver, Apr16/85, Jun2/86.

- AVENAE (Fabricius), SITOBIION  
*Capsella bursa-pastoris*: Vancouver (CDA), Jan20/87.
- BAKERI (Cowen), NEARCTAPHIS  
*Malus sylvestris*: Oliver, May1/40.
- BRASSICAE (Linnaeus), BREVICORYNE  
*Brassica napobrassica* group: Creston, Oct2/57.  
*Brassica oleracea botrytis* group: Chilliwack, Sep4/57.
- CAPILANOENSE Robinson, AULACORTHUM  
*Rubus spectabilis*: Vancouver (UBC), May29/86.
- CARNOSUM (Buckton), MICROLOPHIUM  
*Urtica dioica*: Peace Arch Park, Aug4/86.
- CERTUS (Walker), MYZUS  
*Capsella bursa-pastoris*: Vancouver (CDA), Dec30/86.  
*Gomphrena globosa*: Vancouver (CDA), Dec30/86.
- \*CHRYSANTHEMI (Theobald), PLEOTRICHOPHORUS  
*Chrysanthemum balsamita*: Vancouver (UBC), Aug1/86.
- CIRCUMFLEXUM (Buckton), AULACORTHUM  
*Apium graveolens*: Vancouver (CDA), Jan20/87.  
*Atropa belladonna*: Vancouver (CDA), Jan22/87.  
*Corydalis aurea* ssp. *aurea*: Vancouver (CDA), Oct17/85.  
*Crocus* sp.: Vancouver, May23/59.  
*Fuchsia* x *hybrida* 'Jack Shahan': Vancouver (UBC), Aug1/86.  
*Impatiens wallerana* 'Futura Wildrose': Vancouver (UBC), Aug1/86.  
*Iris* sp.: Vancouver, Jun29/58.  
*Linnaea borealis*: Vancouver (CDA), Oct17/85.  
*Lonicera* 'Dropmore Scarlet': Vancouver (CDA), Oct17/85.  
*Schizostylis coccinea*: Vancouver (CDA), Oct17/85.  
*Vaccinium corymbosum*: Vancouver (CDA), Oct17/85.

TABLE 1. Collection sites of aphids, with airline distances from reference points.

Locality	Reference	Distance		
	Point	Dir	km	mi
Bowen Island	Vancouver	NW	22	14
Chehalis River	Vancouver	NE	82	51
Choate	Vancouver	NE	146	91
Harrison Hot Springs	Vancouver	E	102	64
Peace Arch Park	Vancouver	S	53	33
Sasquatch Provincial Park	Vancouver	E	110	69
Smithers	Prince Rupert	NE	218	136

## CORYLI (Goeze), MYZOCALLIS

*Corylus* sp.: Vancouver, Jun22/56, Oct13/57, Nov1/57.

## COWENI (Cockerell), TAMALIA

*Arctostaphylos uva-ursi*: Vancouver (UBC), Jun13/85.

## \*CRATAEGI (Monell), UTAMPHOROPHORA

*Crataegus x lavallei*: Vancouver (UBC), Jun19/84.

## CREELII Davis, MACROSIPHUM

*Chenopodium murale*: Vancouver (CDA), Jan30/87.

## \*CRYSTLEAE SSP BARTHOLOMEWI (Essig), ILLINOIA

*Lonicera involucrata*: Chehalis River, Jun30/86.

## DAPHNIDIS Börner, MACROSIPHUM

*Daphne laureola*: Vancouver (UBC), Apr2/86.

## DIRHODUM (Walker), METOPOLOPHIUM

*Rosa rugosa 'Rubra'*: Vancouver (UBC), Apr2/86.

## EQUISETI Holman, SITOBION

*Equisetum arvense*: Vancouver, Oct21/85.

## EQUISETICOLA Ossiannilsson, APHIS

*Equisetum arvense*: Vancouver, Jun9/84.

## EUPHORBIAE (Thomas), MACROSIPHUM

*Chenopodium murale*: Vancouver (CDA), Dec30/86.

*Solanum tuberosum*: Alexandria, Aug17/66; Quesnel, Aug17/66; Smithers, Jul22/57.

## FABAE Scopoli, APHIS

*Lilium philadelphicum* var. *andinum*: Vancouver, Ju15/71.

*Tripleurospermum maritimum*: Vancouver (UBC), Jul11/84.

## FAGI (Linnaeus), PHYLLAPHIS

*Fagus sylvatica 'Atropunicea'*: Milner, Jun6/58.

*Fagus sylvatica 'Pendula'*: Trout Creek, Sep3/65.

## FIMBRIATA Richards, FIMBRIAPHIS

*Fragaria x ananassa 'Totem'*: Abbotsford, Aug7/86.

## FOENICULI (Passerini), HYADAPHIS

*Lonicera involucrata*: Ladner, May25/66.

*Lonicera pyrenaica*: Vancouver (UBC), Oct20/86.

## FRAGAEFOLII (Cockerell), CHAETOSIPHON

*Fragaria* sp.: Richmond, Apr14/65, Apr29/65, May31/65.

## FRAGARIAE (Walker), SITOBION

*Holcus lanatus*: Richmond, Aug2/64.

## GILLETTEI Davidson, EUCERAPHIS

*Alnus rubra*: Mount Seymour, May20/73.

## \*GNAPHALODES (Palmer), PLEOTRICHOPHORUS

*Artemisia stelleriana*: Vancouver (UBC), Aug29/86.

## HELICHRYSI (Kaltenbach), BRACHYCAUDUS

*Antirrhinum majus*: Chilliwack, May4/58.

*Salvia officinalis*: Vancouver (UBC), Jun15/84.

## HIPPOPHAES (Walker), CAPITOPHORUS

*Polygonum persicaria*: Vancouver (UBC), Aug13/86.

## IDAEI van der Goot, APHIS

*Rubus idaeus*: Vancouver, Jun10/86.

## KONOI Takahashi, CAVARIELLA

*Apium graveolens*: Cloverdale, Ju11/86.

## LACTUCAE (Linnaeus), HYPEROMYZUS

*Ribes magellanica*: Vancouver (UBC), Oct1/85.

## LANIGERUM (Hausmann), ERIOSOMA

*Malus fusca*: Ladner, May25/66.

- LATYSIPHON (Davidson), RHOPALOSIPHONINUS  
*Gladiolus* sp.: Vancouver, Mar22/60.
- LONICERAE (Siebold), RHOPALOMYZUS  
*Lonicera pyrenaica*: Vancouver (UBC), Oct20/86.
- MAIDIS (Fitch), RHOPALOSIPHUM  
*Capsella bursa-pastoris*: Vancouver (CDA), Dec20/86.
- MANITOBENSE (Robinson), SITOBION  
*Cornus sericea*: Vancouver (UBC), Sep4/86.
- MILLEFOLII (de Geer), MACROSIPHONIELLA  
*Achillea millefolium*: Bowen Island, Aug13/86; Vancouver (UBC), Sep23/75.  
*Achillea millefolium* var. *borealis*: Vancouver (UBC), Oct20/86.
- NYMPHAEAE (Linnaeus), RHOPALOSIPHUM  
*Capsella bursa-pastoris*: Agassiz, Jul12/56.
- ORNATUS Laing, MYZUS  
*Campsis x tagliabuana 'Madame Galen'*: Vancouver (UBC), Aug14/85.  
*Ceratostigma willmottianum*: Vancouver (UBC), Sep3/85.  
*Chamomilla suaveolens*: Vancouver, Apr7/60.  
*Cirsium arvense*: Vancouver (UBC), Jan7/87.  
*Coleus blumei*: Vancouver, May10/59.  
*Dahlia* sp.: Vancouver, Apr13/58.  
*Lamium amplexicaule*: Vancouver (UBC), Jan22/60.
- PADI (Linnaeus), RHOPALOSIPHUM  
*Capsella bursa-pastoris*: Vancouver (CDA), Dec20/86.  
*Stipa elegantissima*: Vancouver (UBC), Feb19/87.
- PARVIFOLII Richards, MACROSIPHUM  
*Vaccinium parvifolium*: Vancouver (UBC), Apr8/86.
- PATRICIAE (Robinson), ILLINOIA  
*Tsuga heterophylla*: North Vancouver, Aug25/71.
- \*PENDERUM Robinson, UROLEUCON  
*Grindelia integrifolia*: Pender Island, Ju19/85 (Robinson 1986); Vancouver (UBC), Oct25/85, Nov4/85.
- PERSICAE (Sulzer), MYZUS  
*Amaranthus retroflexus*: Chilliwack, Jun17/58.  
*Brassica napobrassica* group: Chilliwack, Aug22/57; Creston, Oct2/57.  
*Brassica oleracea botrytis* group: Agassiz, Jun9/58.  
*Brassica rapa*: Agassiz, Jul12/56.  
*Capsella bursa-pastoris*: Creston, May28/58; Pemberton, Sep2/86; Vancouver (UBC), Jan22/60; Westham Island, Sep10/86.  
*Cucurbita* sp.: Vancouver, Jun20/58.  
*Dahlia* sp.: Vancouver, Apr13/58.  
*Digitalis lanata*: Saanich, Ju16/59.  
*Hibiscus sabdariffa*: Vancouver (UBC), Jan5/59.  
*Nicotiana tabacum*: Vancouver (UBC), Aug29/58.  
*Plantago major*: Pemberton, Sep2/86.  
*Raphanus raphanistrum*: Pemberton, Sep2/86.  
*Solanum tuberosum*: Alexandria, Aug17/66; Chilliwack, May22/58; Kelowna, Aug18/54; Lulu Island, Sep18/56; Pemberton, Sep2/86.  
*Zinnia elegans*: Vancouver, Jun3/56.
- PISUM (Harris), ACYRTHOSIPHON  
*Cytisus scoparius*: Vancouver, Jul21/58.
- PLANTAGINEA (Passerini), DYSAPHIS  
*Malus sylvestris*: Penticton, Ju127/57.
- POMI de Geer, APHIS  
*Cotoneaster franchetii*: Vancouver, Jul12/57.

- PRUNI (Geoffroy), HYALOPTERUS  
*Prunus domestica*: Chilliwack, Ju123/86.
- PUNCTATUS (Monell), MYZOCALLIS  
*Quercus garryana*: Vancouver (UBC), Jun19/59.
- PUNCTIPENNIS (Zetterstedt), EUCERAPHIS  
*Alnus viridis* ssp. *sinuata*: Vancouver (UBC), Sep3/86.
- RHAMNI (Clarke), SITOBION  
*Rhamnus purshiana*: Vancouver (UBC), May23/86.
- RIBIS (Linnaeus), CRYPTOMYZUS  
*Ribes magellanica*: Vancouver (UBC), Oct1/85.
- RIEHMI (Borner), THERIOAPHIS  
*Medicago sativa*: Lister, Aug25/58.
- ROBINIAE (Gillette), APPENDISETA  
*Robinia pseudoacacia*: Harrison Hot Springs, Aug13/86.
- ROSAE (Linnaeus), MACROSIPHUM  
*Rosa* 'White Dawn': Vancouver, Ju123/86.
- ROSARUM (Kaltenbach), MYZAPHIS  
*Rosa rugosa*: Vancouver (UBC), May23/86.
- SANGUICEPS Richards, PTEROCOMMA  
*Salix scouleriana*: Vancouver (UBC), Apr3/74.
- SOLANI (Kaltenbach), AULACORTHUM  
*Alstroemeria chilensis*: Vancouver (UBC), Feb19/87.  
*Amaranthus retroflexus*: Chilliwack, Jun17/58.  
*Anagallis monelli*: Vancouver (UBC), Feb18/87.  
*Antirrhinum majus*: Chilliwack, May4/58.  
*Agülegia caerulea* var. *ochroleuca*: Vancouver (UBC), Feb19/87.  
*Artemisia absinthium*: Vancouver (UBC), May23/86.  
*Baccharis magellanica*: Vancouver (UBC), Feb19/87.  
*Citrullus lanatus*: Vancouver, Sep26/86.  
*Conium maculatum*: Vancouver (UBC), May23/86.  
*Dahlia* sp.: Vancouver, Apr13/58.  
*Eucryphia lucida*: Vancouver (UBC), Feb18/87.  
*Fragaria chiloensis*: Vancouver (UBC), Feb19/87.  
*Grindelia integrifolia*: Vancouver (UBC), Nov4/85.  
*Iris* sp.: Vancouver, Jun29/58.  
*Iris tectorum*: Vancouver (UBC), Feb19/87.  
*Lamium amplexicaule*: Vancouver, Jan22/60.  
*Linnaea borealis*: Vancouver (UBC), May6/86.  
*Lycium chinense*: Vancouver (UBC), May23/86.  
*Lycopersicon lycopersicum*: Vancouver, Jun22/61.  
*Nicandra physalodes*: Vancouver (UBC), Feb28/58.  
*Papaver alpinum* 'Plena': Vancouver (UBC), Feb18/87.  
*Parthenocissus quinquefolia*: Vancouver, Jun22/84.  
*Plantago rubrifolia*: Vancouver (UBC), May23/86.  
*Primula parryi*: Vancouver (UBC), Feb19/87.  
*Senecio canus*: Vancouver (UBC), May23/86.  
*Solanum tuberosum*: Boundary Bay, Mar24/60; Chilliwack, May22/58.  
*Stellaria media*: Vancouver, Dec30/59.  
*Tanacetum vulgare*: Vancouver (UBC), May23/86.  
*Tripleurospermum maritimum*: Vancouver (UBC), Ju111/84.
- SPIRAEAE (MacGillivray), ILLINOIA  
*Spiraea douglasii*: Abbotsford, Jun16/65.
- SPIRAECOLA (Patch), ILLINOIA  
*Spiraea thunbergii*: Vancouver (UBC), May6/86.

## SPYROTHECAE Passerini, PEMPHIGUS

*Populus nigra* 'Italica': Sasquatch Provincial Park, Aug13/86.

## STAPHYLEAE (Koch), RHOPALOSIPHONINUS

*Astilbe microphylla*: Vancouver (UBC), Apr18/86.

*Cardiocrinum giganteum*: Vancouver (UBC), Apr18/86.

*Geranium* 'Ballerina': Vancouver (UBC), Apr18/86.

*Helleborus orientalis*: Vancouver (UBC), Apr18/86.

*Parthenocissus quinquefolia*: Vancouver, Jun22/84.

*Viburnum farreri* 'Bowles': Vancouver (UBC), Apr18/86.

## STELLARIAE Theobald, MACROSIPHUM

*Catharanthus roseus*: Vancouver (CDA), Oct13/86.

*Rheum rhabarbarum* 'Victoria': Vancouver (CDA), Oct10/86.

## TANACETARIA (Kaltenbach), MACROSIPHONIELLA

*Chrysanthemum balsamita*: Vancouver (UBC), Aug1/86.

*Chrysanthemum parthenium*: Vancouver (UBC), Aug1/86.

*Matricaria perforata*: Vancouver (UBC), Sep22/86.

*Tanacetum vulgare*: Choate, Ju124/67.

## TESTUDINACEUS (Fernie), PERIPHYLLUS

*Acer macrophyllum*: Vancouver (UBC), May10/74.

## TILIAE (Linnaeus), EUCALLIPTERUS

*Tilia americana*: Vancouver (UBC), Sep25/86.

## VANCOUVERENSE Robinson, UROLEUCON

*Solidago missouriensis* var. *missouriensis*: Vancouver (UBC), Oct20/86.

## VARIABILIS Richards, BOERNERINA

*Alnus viridis* ssp. *sinuata*: Vancouver (UBC), Sep3/86.

## VARIANS Patch, APHIS

*Ribes magellanica*: Vancouver (UBC), Oct1/85.

## WALSHII (Monell), MYZOCALLIS

*Quercus* sp.: Vancouver, Sep21/59.

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## THE APHIDS (HOMOPTERA:APHIDIDAE) OF BRITISH COLUMBIA 17. A REVISED HOST PLANT CATALOGUE

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### ABSTRACT

A host plant catalogue of 919 species and the associated aphids collected in British Columbia is presented.

### INTRODUCTION

This host plant catalogue includes all of the aphids recorded in British Columbia (Forbes, Frazer and MacCarthy 1973; Forbes, Frazer and Chan 1974; Forbes and Chan 1976, 1978b, 1980, 1981, 1983, 1984, 1985, 1986a, 1986b, 1987; Forbes, Chan and Footitt 1982) that were actually colonizing hosts. It supercedes previous ones (Forbes and Chan 1978a; Forbes and Frazer 1973).

Names of native plants are based on Anonymous (1982); Crabbe, Jermy and Mikel (1975); Hitchcock and Cronquist (1973); Schofield (1969); and Taylor and MacBryde (1977). Names of cultivated plants are based on Anonymous (1976); and Fernald (1970). The plant hosts are listed alphabetically by genus, species and variety with a cross index of common names and family names. The aphids colonizing each host are given alphabetically by genus and species. Their names are in conformity with Eastop and Hille Ris Lambers (1976).

This catalogue was compiled by computer using a Fortran program (Raworth and Frazer 1976).

### HOST PLANT CATALOGUE

Abelia x 'Edward Goucher'		Abies sp.	Fir ( F. Pinaceae )
Edward Goucher Abelia ( F. Caprifoliaceae )		<i>Cinara confinis</i>	
<i>Myzus ornatus</i>		<i>Cinara sonata</i>	
Abies balsamea	Balsam Fir ( F. Pinaceae )	Acer cappadocicum	
<i>Cinara curvipes</i>		Cappadocian Maple ( F. Aceraceae )	
<i>Cinara occidentalis</i>		<i>Periphyllus testudinaceus</i>	
Abies grandis	Grand Fir ( F. Pinaceae )	Acer circinatum	Vine Maple ( F. Aceraceae )
<i>Cinara confinis</i>		<i>Periphyllus californiensis</i>	
<i>Cinara curvipes</i>		<i>Periphyllus lyropictus</i>	
<i>Cinara occidentalis</i>		<i>Periphyllus testudinaceus</i>	
<i>Cinara sonata</i>		Acer ginnala	Amur Maple ( F. Aceraceae )
<i>Mindarus abietinus</i>		<i>Periphyllus testudinaceus</i>	
<i>Mindarus victoria</i>		Acer glabrum	
Abies lasiocarpa	Alpine Fir ( F. Pinaceae )	Rocky Mountain Maple ( F. Aceraceae )	
<i>Cinara confinis</i>		<i>Drepanosiphum platanoidis</i>	
<i>Cinara curvipes</i>		<i>Periphyllus brevispinosus</i>	
Abies sibirica	Siberian Fir ( F. Pinaceae )	Acer glabrum var. douglasii	
<i>Cinara occidentalis</i>		Douglas Maple ( F. Aceraceae )	