

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

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**Abstract**

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

**INTRODUCTION**

Thirteen 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, 1987; Forbes, Chan and Footitt 1982) recorded 392 species of aphids collected from 919 hosts or in traps. The records include 1764 aphid-host plant associations. The present list adds 5 aphid species (indicated with an asterisk in the list) and 279 aphid-host plant associations to the previous lists. One hundred and thirty-three 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 397. Aphids have now been collected from 1052 different host plants and the total number of aphid-host plant associations is 2043.

The aphid names are listed alphabetically by species and are in conformity with Eastop and Hille Ris Lambers (1976), except *Sitobion dorsatum* (Richards) has been changed back to *Aulacorthum dorsatum* Richards based on karyotyping ( $2n = 12$ , R.L. Blackman, personal communication). Two new collection sites are tabulated in Table I. The location of each collection site can be determined from Table I 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).

Table I. Collection sites of aphids, with airline distances from reference points.

Locality	Reference Point	Dir	Distance	
			km	mi
Buntzen Lake	Vancouver	NE	32	20
Ellison Lake	Kamloops	SE	70	44

*LIST OF SPECIES*

ABIETINUM (Walker), ELATOBIUM

*Picea glauca*: Surrey, Oct19/87.

ABSINTHII (Linnaeus), MACROSIPHONIELLA

*Artemisia arborescens* 'Powis Castle': Vancouver (UBC), Aug20/87.

AEGOPODII (Scopoli), CAVARIELLA

*Anthriscus cerefolium*: Vancouver (CDA), Dec15/87.

*Hedera helix*: Vancouver (UBC), May14/58

*Phygadeuon aequalis* 'Yellow Trumpet': Vancouver (UBC), Nov27/87.

AGATHONICA Hottes, AMPHOROPHORA

*Rubus idaeus*: Abbotsford, Jul9/59; Chilliwack, Jul8/59; Sardis, Jun15/59.

*Rubus occidentalis* 'Munger': Vancouver (CDA), Jan22/88.

ALBIFRONS Essig, MACROSIPHUM

*Lupinus arboreus*: Vancouver (UBC), May6/87, Dec7/87.

*Lupinus nootkatensis* var. *nootkatensis*: Vancouver (UBC), May6/87.

ALNI (de Geer), PTEROCALLIS

*Alnus rubra*: Buntzen Lake, Jul25/87; Tofino, Aug7/87; Vancouver (UBC), Aug28/87.

## ANNULATUS (Hartig), TUBERCULATUS

*Quercus robur*: Vancouver (UBC), Jul23/87.

## ASCALONICUS Doncaster, MYZUS

*Arctostaphylos uva-ursi*: Vancouver (UBC), Jun19/87.

*Capsella bursa-pastoris*: Bowen Island, Jun23/87.

*Clematis orientalis* 'Bill Mackenzie': Vancouver (UBC), Nov19/87, Nov27/87.

*Dicentra formosa* ssp. *formosa*: Vancouver (UBC), May6/87.

*Fragaria x ananassa* 'Burlington': Vancouver (UBC), Aug20/87.

*Fragaria x ananassa* 'Totem': Vancouver (UBC), Apr8/87.

*Geum rivale*: Vancouver (UBC), Dec7/87.

*Liriope muscari* 'Silvery Sunproof': Vancouver (UBC), Nov27/87.

*Malva pusilla*: Vancouver (UBC), Mar10/87.

*Potentilla rubricaulus*: Vancouver (UBC), Dec7/87.

*Solidago missouriensis* var. *missouriensis*: Vancouver (UBC), May6/87.

## ATRIPLICIS (Linnaeus), HAYHURSTIA

*Amaranthus retroflexus*: Soda Creek, Jul16/57.

## AVELLANAE (Schränk), CORYLOBIUM

*Corylus cornuta* var. *californica*: Vancouver, May16/87, Jun9/87.

## AVENAE (Fabricius), SITOBION

*Dactylis glomerata*: Vancouver, May27/87.

*Danthonia carphoides*: Vancouver (UBC), Nov27/87.

*Iris pallida* 'Variegata': Vancouver (UBC), Sep10/87.

## BERBERIDIS (Kaltenbach), LIOSOMAPHIS

*Berberis buxifolia*: Burnaby, Sep12/87.

## \*BETULAE (Koch), EUCERAPHIS

*Betula pendula*: Vancouver (UBC), Nov12/87.

## BRASSICAE (Linnaeus), BREVICORYNE

*Capsella bursa-pastoris*: Richmond, Jul17/87; Vancouver (UBC), Nov12/87.

*Raphanus sativus*: Richmond, Jul9/87.

## CALIFORNICA Hille Ris Lambers, NEARCTAPHIS

*Sorbus aucuparia*: Vancouver, Jul6/86.

## CANADENSE (Robinson), DELPHINIOBIUM

*Lonicera involucrata*: Tofino, Aug6/87.

## CAPILANOENSE Robinson, AULACORTHUM

*Rubus spectabilis*: North Vancouver, Jul15/65; Vancouver, Jun3/87, Jun22/87; Vancouver (UBC), Jun4/87.

## CARDUI (Linnaeus), BRACHYCAUDUS

*Arctium minus*: Keremeos, Jul28/67.

*Senecio vulgaris*: Vancouver (UBC), Jan14/87.

## CARPINI (Koch), MYZOCALLIS

*Carpinus betulus*: Vancouver, Nov26/87.

## CERASI (Fabricius), MYZUS

*Prunus serrulata* 'Kwanzan': Vancouver (UBC), Apr28/87.

## CERTUS (Walker), MYZUS

*Anthriscus cerefolium*: Vancouver (CDA), Jan12/88.

*Rheum rhabarbarum* "Victoria": Vancouver (CDA), Aug19/87.

## CIRCUMFLEXUM (Buckton), AULACORTHUM

*Akebia quinata*: Vancouver (UBC), May5/87, Nov24/87.

*Anthriscus cerefolium*: Vancouver (CDA), Dec15/87.

*Aquilegia* 'Mrs Scott Elliott': Vancouver (UBC), Jun4/87.

*Arachis hypogaea*: Vancouver (CDA), Sep21/87.

*Claytonia sibirica* var. *sibirica*: Vancouver (CDA), Dec15/87.

*Fragaria x ananassa* 'Totem': Vancouver (UBC), Aug18/87.

*Fragaria vesca* 'Semperflorens': Vancouver (CDA), Sep21/87.

*Gaultheria shallon*: Vancouver (UBC), May19/87.  
*Hypericum calycinum*: Vancouver (UBC), Apr8/87, Jun4/87.  
*Malus sylvestris*: Vancouver (UBC), Apr15/87, May15/87.  
*Onoclea sensibilis*: Vancouver (UBC), May12/87.  
*Oxalis corniculata*: Vancouver (UBC), Jun22/87.  
*Pernettya mucronata* 'Pink Pearl': Vancouver (UBC), Apr6/87.  
*Physalis pubescens*: Vancouver (CDA), Dec11/87.  
*Pityrogramma triangularis* var. *triangularis*: Vancouver (UBC), May12/87.  
*Polystichum lonchitis*: Vancouver (UBC), May12/87.  
*Ranunculus occidentalis*: Vancouver, Jun10/87.  
*Salvia splendens* 'St John's Fire': Vancouver (UBC), Jun22/87.  
*Taraxacum officinale*: Vancouver (UBC), Apr8/87.  
*Vaccinium corymbosum* 'Blue Haven': Vancouver (UBC), Jun4/87.  
*Vaccinium macrocarpon* 'McFarlin': Vancouver (UBC), May15/87.  
*Vaccinium vitis-idaea* ssp. *minus*: Vancouver (UBC), Apr6/87.

## CORNI (Fabricius), ANOECIA

*Fuchsia* x *hybrida*: Vancouver, Aug26/87.  
*Philadelphus lewisii*: Vancouver, Aug26/87.  
*Rosa rugosa* 'Alba': Vancouver, Aug26/87.

## CORYLI (Goeze), MYZOCALLIS

*Corylus cornuta*: Vancouver (UBC), Jun4/87.

## COWENI (Cockerell), TAMALIA

*Arctostaphylos uva-ursi*: Vancouver (UBC), May12/87, Jun19/87, Aug6/87.

## CRATAEGARIUS (Walker), OVATUS

*Mentha* sp.: Vancouver (UBC), Jun12/87.  
*Mentha spicata*: Vancouver (UBC), Jun15/87.

## \*CRATAEGIFOLIAE SSP OCCIDENTALIS Hille Ris Lambers, NEARCTAPHIS

*Prunus avium* 'Mazzard': Vancouver (UBC), Sep15/87.

## CRYSTLEAE SSP BARTHOLOMEWI (Essig), ILLINOIA

*Lonicera involucrata*: Tofino, Aug6/87.

## CYTISORUM Hartig, APHIS

*Cytisus scoparius*: Bowen Island, May18/87; Tofino, Aug7/87.

## DAPHNIDIS Börner, MACROSIPHUM

*Daphne* x *burkwoodii* 'Somerset': Vancouver (UBC), Nov19/87.  
*Daphne laureola*: Vancouver (UBC), May29/87.  
*Daphne* x *mantensiana*: Vancouver (UBC), Oct9/87.

## DAVIDSONI (Mason), ILLINOIA

*Arnica* sp.: Garibaldi Provincial Park, Aug3/59.

## DIRHODUM (Walker), METOPOLOPHIUM

*Rosa rugosa* 'Hansa': Vancouver (UBC), Oct30/87.  
*Rosa* 'White Grootendorst': Vancouver (UBC), Apr10/87.  
*Zea mays* 'Sunny Vee': Vancouver (CDA), Jan22/88.

## DORSATUM Richards, AULACORTHUM

*Gaultheria shallon*: Vancouver (UBC), May5/87, May19/87.

## EPILOBII Kaltenbach, APHIS

*Epilobium ciliatum*: Williams Lake, Aug4/58.

## EQUISETI Holman, SITOBION

*Equisetum arvense*: Vancouver, Jun27/87.

## ERIGERONENSIS (Thomas), UROLEUCON

*Conyza canadensis* var. *canadensis*: Vancouver (UBC), Sep29/87.

## EUPHORBIAE (Thomas), MACROSIPHUM

*Amaranthus retroflexus*: Brentwood, Aug5/59.

## FABAE Scopoli, APHIS

*Abutilon* 'Moon Chimes': Vancouver (UBC), Jul23/87, Oct7/87.

- Allium ampeloprasum porrum* group: Brentwood, Jul5/59.  
*Amaranthus retroflexus*: Brentwood, Aug5/59.  
*Cucurbita pepo*: Vancouver, Sep19/58.  
*Dipsacus fullonum* ssp. *fullonum*: Vancouver (UBC), Aug1/86.  
*Impatiens capensis* Vernon, Sep29/42.  
*Liriodendron tulipifera*: Vancouver (UBC), Sep3/86.
- FAGI (Linnaeus), PHYLLAPHIS  
*Fagus sylvatica* 'Purpurea Pendula': Vancouver (UBC), Jun3/87.  
*Fagus sylvatica* 'Zlatia': Vancouver (UBC), Jun3/87.
- FARINOSA Gmelin, APHIS  
*Salix* sp.: Vancouver, May20/87, May26/87.
- FIMBRIATA Richards, FIMBRIAPHIS  
*Capsella bursa-pastoris*: Vancouver (CDA), May25/87.  
*Fragaria x ananassa* 'Totem': Abbotsford, Jan21/88.  
*Fragaria vesca* 'Semperflorens': Vancouver (CDA), May22/87.  
*Rosa* 'Beauty Secret': Vancouver (CDA), May22/87.
- FLAVA (Davidson), OESTLUNDIELLA  
*Alnus rubra*: Vancouver (UBC), Jul30/87, Aug28/87.
- FOENICULI (Passerini), HYADAPHIS  
*Anthriscus cerefolium*: Vancouver (CDA), Sep15/87.  
*Daucus carota*: Vancouver (CDA), Dec14/87.  
*Lonicera japonica*: Vancouver (CDA), Jan22/88.  
*Lonicera sempervirens* 'Flava': Vancouver (UBC), May6/87, Nov14/85.
- FRAGAEFOLII (Cockerell), CHAETOSIPHON  
*Fragaria x ananassa* 'Totem': Abbotsford, Nov2/87; Vancouver (UBC), Apr8/87, May14/87.  
*Fragaria vesca* 'Semperflorens': Vancouver (UBC), Apr8/87.
- FRAGARIAE (Walker), SITOBION  
*Rubus discolor*: Vancouver, May4/87, May6/87.
- GALEOPSISIDIS (Kaltenbach), CRYPTOMYZUS  
*Galeopsis tetrahit*: Surrey, Jul10/56.
- GENTNERI (Mason) FIMBRIAPHIS  
*Amelanchier laevis*: Vancouver (UBC), Sep22/87.  
*Crataegus monogyna* 'Alba': Vancouver, Jun9/87.  
*Photinia x fraseri*: Vancouver, May6/87, Jun8/87.
- GILLETTEI Davidson, EUCERAPHIS  
*Alnus rubra*: Tofino, Aug6/87, Aug7/87; Vancouver (UBC), Sep4/87.
- HELIANTHI Monell, APHIS  
*Helianthus annuus*: Kamloops, Aug13/34, Sep5/57.  
*Oplopanax horridus*: Vancouver (UBC), Apr10/59, Jun27/56.
- HELICHRYSI (Kaltenbach), BRACHYCAUDUS  
*Achillea millefolium*: Victoria, Jul12/60.  
*Arctostaphylos uva-ursi*: Vancouver (UBC), May5/87, May 12/87.  
*Conyza canadensis* var. *canadensis*: Vancouver (UBC), Dec30/86.  
*Erigeron acris* ssp. *politus*: Vancouver (UBC), Nov19/87.  
*Gnaphalium uliginosum*: Vancouver, Jun24/87.  
*Lupinus nootkatensis* var. *nootkatensis*: Vancouver (UBC), May6/87.  
*Pelargonium denticulatum*: Vancouver (UBC), Jun12/87.  
*Salix lanata*: Vancouver (UBC), Apr22/87.  
*Solidago missouriensis* var. *missouriensis*: Vancouver (UBC), May6/87.  
*Tanacetum vulgare*: Vancouver, May6/87.  
*Vinca major*: Vancouver (UBC), May6/87.
- HERACLELLA Davis, APHIS  
*Conium maculatum*: Prince George, Aug10/55  
*Heracleum sphondylium* ssp. *montanum*: Manning Park, Aug20/87.

## HIPPOPHAES (Walker), CAPITOPHORUS

*Polygonum persicaria*: Richmond, Jul29/87

## HUMULI (Schränk), PHORODON

*Humulus lupulus*: Vancouver, May24/87.

## IDAEI van der Goot, APHIS

*Rubus idaeus*: Vancouver, May28/60.*Rubus idaeus* ssp. *melanolasius*: Vancouver, Aug3/56

## INSERTUM (Walker), RHOPALOSIPHUM

*Malus sylvestris*: Penticton, Jul27/67.

## LACTUCAE (Linnaeus), HYPEROMYZUS

*Lactuca serriola*: Tofino, Aug9/87.*Sonchus asper*: Vancouver (UBC), Nov11/87.*Sonchus oleraceus*: Vancouver, Jun27/87.

## LACTUCAE (Passerini), ACYRTHOSIPHON

*Lactuca serriola*: Richmond, Jul10/87.

## LIRIODENDRI (Monell), ILLINOIA

*Liriodendron tulipifera*: Vancouver, Aug21/87.

## LONGICAUDA (Richards), EOESSIGIA

*Spiraea douglasii*: Vancouver, Jul8/87.*Spiraea douglasii* ssp. *menziesii*: Vancouver (UBC), Nov19/87.

## MACROSIPHUM (Wilson), ACYRTHOSIPHON

*Amelanchier laevis*: Vancouver (UBC), Sep2/87.

## MAIDIS (Fitch), RHOPALOSIPHUM

*Avena sativa*: Vancouver (CDA), Jan22/88.

## MALVAE (Mosley), ACYRTHOSIPHON

*Geranium* sp.: Chilcotin. Jun11/31.

## MAXIMA (Mason), ILLINOIA

*Rubus parviflorus*: Vancouver (UBC), May24/56.

## MODESTUM (Hottes), MYZODIUM

*Polytrichum juniperinum*: Vancouver (UBC), Jul13/87.

## NERVATA (Gillette), WAHLGRENIELLA

*Arbutus menziesii*: Vancouver (UBC), Dec7/87.

## NYMPHAEAE (Linnaeus), RHOPALOSIPHUM

*Actinidia chinensis* 'Hayward': Vancouver (UBC), Sep15/87.*Alisma plantago-aquatica*: Vancouver, Aug28/87, Sep2/87.*Callitriche stagnalis*: Vancouver (UBC), Sep11/87.*Menyanthes trifoliata*: Vancouver, Aug28/57.*Myriophyllum spicatum*: Ellison Lake, Aug18/86.*Prunus avium* 'Mazzard': Vancouver (UBC), Sep15/87.

## \*OLIVEI Moran, UROLEUCON

*Aster* sp.: Vancouver, Jun18/57.

## ORNATUS Laing, MYZUS

*Akebia quinata*: Vancouver (UBC), Nov24/87.*Arabidopsis thaliana*: Vancouver (UBC), Apr10/87.*Arctostaphylos uva-ursi*: Vancouver (UBC), Feb25/87.*Chrysanthemum balsamita*: Vancouver (UBC), Jun12/87.*Chrysanthemum leucanthemum*: Bowen Island, Jun22/87.*Cichorium intybus*: Vancouver (UBC), Jun26/87.*Clematis orientalis* 'Bill Mackenzie': Vancouver (UBC), Nov19/87, Nov27/87.*Diascia rigescens*: Vancouver (UBC), Dec7/87.*Epilobium ciliatum*: Vancouver (UBC), Jul16/87.*Erigeron acris* ssp. *politus*: Vancouver (UBC), Nov19/87.*Erodium cicutarium* ssp. *cutarium*: Vancouver (UBC), Dec8/87.*Fragaria* x *ananassa* 'Totem': Vancouver (UBC), May14/87.

- Fritillaria crassifolia*: Vancouver (UBC), Apr8/87.  
*Garrya elliptica*: Vancouver (UBC), Jan13/88.  
*Geum rivale*: Vancouver (UBC), Dec7/87.  
*Gnaphalium uliginosum*: Vancouver, Jun24/87.  
*Helichrysum bracteatum*: Vancouver (UBC), Sep29/87.  
*Lilium candidum*: Vancouver (UBC), Apr8/87.  
*Meconopsis cambrica*: Vancouver (UBC), Dec8/87.  
*Oxalis corniculata*: Vancouver (UBC), Jun22/87.  
*Pernettya mucronata* 'Pink Pearl': Vancouver (UBC), Apr6/87, May15/87.  
*Pernettya mucronata* 'White Pearl': Vancouver (UBC), May6/87.  
*Potentilla caulescens*: Vancouver (UBC), Dec7/87.  
*Potentilla fruticosa*: Vancouver (UBC), Dec8/87.  
*Rhinopetalum bucharium*: Vancouver (UBC), Apr8/87.  
*Rumex acetosella*: Vancouver (UBC), May5/87, May6/87.  
*Salvia officinalis*: Vancouver (UBC), Jun12/87.  
*Salvia officinalis* 'Aurea': Vancouver (UBC), Nov27/87.  
*Salvia splendens* 'St John's Fire': Vancouver (UBC), Jun22/87.  
*Sanguisorba officinalis* ssp. *microcephala*: Vancouver (UBC), Nov19/87.  
*Sonchus oleraceus*: Vancouver (UBC), Jul6/87.  
*Tulipa bakeri*: Vancouver (UBC), Apr22/87.  
*Vaccinium corymbosum* 'Northsky': Vancouver (UBC), Jun4/87.  
*Vaccinium macrocarpon* 'McFarlin': Vancouver (UBC), May15/87.  
*Vaccinium vitis-idaea* ssp. *minus*: Vancouver (UBC), Apr6/87.  
*Vinca major*: Vancouver (UBC), May6/87.
- PADI (Linnaeus), RHOPALOSIPHUM
- Liriope muscari* 'Silvery Sunproof': Vancouver (UBC), Nov27/87.  
*Zea mays*: Vancouver (UBC), Aug28/59.
- PARVIFLORI Hill, AMPHOROPHORA
- Rubus parviflorus*: Vancouver, May15/79.
- PARVIFOLII Richards, MACROSIPHUM
- Pernettya mucronata* "Pink Pearl": Vancouver (CDA), Apr21/87.  
*Vaccinium parvifolium*: Vancouver (UBC), Apr22/87, Jun4/87.
- PASTINACAE (Linnaeus), CAVARIELLA
- Heracleum sphondylium* ssp. *montanum*: Manning Park, Aug20/87.
- PENDERUM Robinson, UROLEUCON
- Grindelia integrifolia*: Point Atkinson, May5/57.
- PERSICAE (Sulzer), MYZUS
- Amaranthus retroflexus*: Pemberton, Sep20/87.  
*Anthriscus cerefolium*: Vancouver (CDA), Jan22/88.  
*Antirrhinum majus*: Victoria, Apr4/58.  
*Beta vulgaris* *ciela* group: Vancouver (UBC), Sep15/87.  
*Capsella bursa-pastoris*: Pemberton, Sep20/87; Vancouver (UBC), Nov12/87.  
*Galeopsis tetrahit*: Pemberton, Sep20/87.  
*Malva neglecta*: Vancouver (UBC), Nov27/87, Dec7/87.  
*Nasturtium officinale*: Pemberton, Sep20/87.  
*Physalis pubescens*: Vancouver (CDA), Dec15/87.  
*Prunus avium* 'Mazzard': Vancouver (UBC), Sep15/87.  
*Rumex crispus*: Pemberton, Sep20/87.  
*Solanum nigrum*: Pemberton, Sep20/87.  
*Solanum tuberosum*: Pemberton, Sep3/87.
- PINETI (Fabricius), SCHIZOLACHNUS
- Pinus mugo*: Lulu Island, Jun7/61
- PISUM (Harris), ACYRTHOSIPHON
- Cytisus scoparius*: Tofino, Aug7/87.  
*Phaseolus vulgaris*: Brentwood, Jul4/59.

## PLANTAGINEA (Passerini), DYSAPHIS

*Malus sylvestris*: Penticton, Jul27/67; Vancouver (UBC), May22/57.

## PLATANOIDIS (Schrank), DREPANOSIPHUM

*Acer saccharum* ssp. *grandidentatum*: Vancouver (UBC), Oct20/87.

## \*POLARIS Hille Ris Lambers, MYZUS

*Cerastium fontanum* ssp. *triviale*: Vancouver, Dec30/59.

## POMI de Geer, APHIS

*Chaenomeles speciosa*: Vancouver, Jul20/58.

*Crataegus monogyna* 'Alba': Vancouver, Jun9/87.

*Sorbus aucuparia*: Vancouver, Jul6/86.

## POPULIVENAE Fitch, PEMPHIGUS

*Rumex acetosella*: Vancouver (UBC), May5/87.

## PRUNI (Geoffroy), HYALOPTERUS

*Typha orientalis*: Vancouver (UBC), Aug20/87.

## PTERINIGRUM Richards, AULACORTHUM

*Akebia quinata*: Vancouver (UBC), Nov24/87.

*Pieris japonica*: Richmond, May23/67.

*Rosa* 'Beauty Secret': Vancouver (CDA), Dec8/87.

*Vaccinium parvifolium*: Tofino, Aug5/87.

## RHAMNI (Clarke), SITOBION

*Rhamnus purshiana*: Vancouver (UBC), Aug12/87.

## RIBIS (Linnaeus), CRYPTOMYZUS

*Ribes sativum* 'Red Lake': Vancouver (UBC), Jul23/87.

## RIBISNIGRI (Mosley), NASONOVIA

*Cichorium intybus*: Vancouver (UBC), Jun26/87, Aug1/86.

*Crepis capillaris*: Richmond, Jul9/87.

*Lactuca sativa*: Cloverdale, May21/87; Vancouver, Sep11/87.

*Lactuca serriola*: Richmond, Jul17/87.

## ROBINIAE (Gillette), APPENDISETA

*Robinia pseudoacacia*: Vancouver, May24/87.

## ROSAE (Linnaeus), MACROSIPHUM

*Centranthus ruber*: Vancouver (UBC), Jun12/87, Jun26/87.

*Centranthus ruber* 'Atrococcineus': Vancouver (UBC), May25/87.

*Dipsacus fullonum* ssp. *fullonum*: Vancouver (UBC), Aug1/86.

*Rosa* 'A 22': Vancouver (UBC), Apr10/87, Apr29/87, May29/87, Jun25/87.

*Rosa* 'Admiral Rodney': Vancouver (UBC), Mar6/87.

*Rosa* 'Agnes': Vancouver (UBC), Aug12/87.

*Rosa* 'Amatsu Otome': Vancouver (UBC), Aug5/87, Sep2/87.

*Rosa canina*: Vancouver (UBC), May25/87.

*Rosa* 'Chicago Peace': Vancouver (UBC), Jan14/87.

*Rosa damascena*: Vancouver (UBC), Apr10/87.

*Rosa* 'Electron': Vancouver (UBC), Sep2/87.

*Rosa* 'Florentina': Vancouver (UBC), Sep2/87.

*Rosa helenae*: Vancouver (UBC), May29/87.

*Rosa* 'Iceberg': Vancouver (UBC), Sep2/87.

*Rosa* 'L 57': Vancouver (UBC), Apr10/87.

*Rosa* 'L 85': Vancouver (UBC), Apr10/87, Nov2/87.

*Rosa* 'Matangi': Vancouver (UBC), Feb25/87.

*Rosa* 'Mr. Chips': Vancouver (UBC), Mar6/87.

*Rosa nutkana*: Vancouver (UBC), May29/87.

*Rosa* 'Old Master': Vancouver (UBC), Aug5/87.

*Rosa rubrifolia*: Vancouver (UBC), May29/87, Jun25/87.

*Rosa rugosa* 'Alba': Vancouver (UBC), May5/87, May29/87, Sep10/87.

*Rosa* 'Sympathie': Vancouver (UBC), Apr10/87.

*Rosa* 'U O 4': Vancouver (UBC), Apr29/87.

- Rosa virginiana*: Vancouver (UBC), Apr29/87.  
*Rosa wichuraiana*: Vancouver (UBC), Jun25/87.  
*Valeriana officinalis*: Vancouver (UBC), Jun12/87.
- ROSARUM (Kaltenbach), MYZAPHIS  
*Fragaria x ananassa* 'Totem': Vancouver (CDA), Jan22/88.  
*Potentilla fruticosa*: Vancouver, Sep12/87; Vancouver (UBC), Dec8/87.  
*Rosa* 'A 22': Vancouver (UBC), Aug5/87.  
*Rosa* 'Beauty Secret': Vancouver (CDA), Nov13/87.  
*Rosa* 'Eddie's Jewel': Vancouver (UBC), Jun25/87.  
*Rosa luciae* var. *onoei* 'Yakushima Bara': Vancouver (UBC), Nov19/87, Nov27/87.
- RUSSELLAE (Hille Ris Lambers) UROLEUCON  
*Anaphalis margaritacea*: Tofino, Aug6/87.
- SALICARIAE Koch, APHIS  
*Cornus alba* 'Argenteo-marginata': Vancouver (UBC), May21/59.  
*Cornus capitata*: Vancouver (UBC), May21/59.
- SALIGNUS (Gmelin), TUBEROLACHNUS  
*Salix* sp.: Vancouver (UBC), Oct31/41.
- SCLEROSA (Richards) NEARCTAPHIS  
*Crataegus douglasii*: Vancouver (UBC), Jun27/56.
- SEDI Kaltenbach, APHIS  
*Sedum spectabile*: Vancouver, Nov10/87.
- SOLANI (Kaltenbach), AULACORTHUM  
*Akebia quinata*: Vancouver (UBC), May5/87.  
*Anchusa capensis*: Vancouver (UBC), May25/87, Jun12/87.  
*Callistemon pallidus*: Vancouver (UBC), Feb19/87.  
*Capsella bursa-pastoris*: Bowen Island, Jun21/87, Jun23/87.  
*Cichorium intybus*: Vancouver (UBC), Jun26/87.  
*Claytonia sibirica* var. *sibirica*: Vancouver (CDA), Jan22/88.  
*Conyza canadensis* var. *canadensis*: Vancouver (UBC), Dec30/86.  
*Digitalis lutea*: Vancouver (UBC), May6/87.  
*Disporum hookeri* var. *oreganum*: Vancouver (UBC), Apr14/87.  
*Fragaria x ananassa* 'Totem': Vancouver (UBC), May14/87.  
*Fritillaria crassifolia*: Vancouver (UBC), Apr8/87.  
*Fuchsia magellanica*: Vancouver, Aug26/87.  
*Gaultheria shallon*: Vancouver (UBC), May5/87.  
*Geranium molle*: Bowen Island, Jun22/87.  
*Geranium viscosissimum* var. *viscosissimum*: Vancouver (UBC), Apr3/86.  
*Geum peruvianum*: Vancouver (UBC), Feb18/87.  
*Geum rivale*: Vancouver (UBC), Dec7/87.  
*Gnaphalium uliginosum*: Vancouver, Jun24/87.  
*Gomphrena globosa*: Vancouver (CDA), Sep18/87.  
*Iris longipetala*: Vancouver (UBC), Feb19/87.  
*Leucothoe fontanesiana*: Vancouver (UBC), May19/87.  
*Limonium latifolium* 'Violetta': Vancouver (UBC), Nov27/87.  
*Mentha spicata*: Vancouver (UBC), Jun15/87.  
*Monarda fistulosa* var. *menthifolia*: Vancouver (UBC), Jun12/87.  
*Morina coulteriana*: Vancouver (UBC), Feb18/87.  
*Nicotiana glauca*: Vancouver (CDA), Jan22/88.  
*Onoclea sensibilis*: Vancouver (UBC), May12/87.  
*Pelargonium denticulatum*: Vancouver (UBC), Jun12/87.  
*Pernettya mucronata* 'White Pearl': Vancouver (UBC), May6/87.  
*Petasites palmatus*: Vancouver, Jun22/87.  
*Physalis pubescens*: Vancouver (CDA), Dec11/87.  
*Pieris japonica*: Richmond, Jun15/87.



- Polypodium glycyrrhiza*: Vancouver (UBC), Aug5/87.  
*Potentilla rubricaulis*: Vancouver (UBC), Dec7/87.  
*Prunus laurocerasus*: Vancouver, May12/87.  
*Romneya coulteri*: Vancouver (UBC), Jun12/87, Jun26/87.  
*Rubus calycinoides*: Vancouver (UBC), Apr24/87.  
*Ruta graveolens*: Vancouver (UBC), May25/87.  
*Ruta graveolens 'Variegata'*: Vancouver (UBC), May25/87.  
*Salvia officinalis*: Vancouver (UBC), Jun12/87.  
*Sanguisorba officinalis* ssp. *microcephala*: Vancouver (UBC), Nov19/87.  
*Santolina chamaecyparissus*: Vancouver (UBC), Jun12/87.  
*Senecio abrotanifolius*: Vancouver (UBC), Feb18/87.  
*Sibiraea altaiensis*: Vancouver (UBC), Feb19/87.  
*Symphoricarpos albus*: Vancouver, May4/87.  
*Verbena x hybrida*: Vancouver (UBC), Aug1/86.  
*Viola tricolor*: Vancouver (UBC), Jun12/87.

## SPIRAEAE (MacGillivray), ILLINOIA

- Spiraea douglasii*: Vancouver, Jul8/87.

## SPYROTHECAE Passerini, PEMPHIGUS

- Populus nigra 'Italica'*: Langley, Aug6/87.

## STANLEYI Wilson, MACROSIPHUM

- Sambucus racemosa* ssp. *pubens* var. *arborescens*: Bowen Island, Jul22/67; Vancouver (UBC), May6/87.

## STAPHYLEAE (Koch), RHOPALOSIPHONINUS

- Anagallis monelli*: Vancouver (UBC), Feb18/87.  
*Anemone chinensis*: Vancouver (UBC), Feb18/87.  
*Aquilegia caerulea* var. *ochroleuca*: Vancouver (UBC), Feb19/87.  
*Arum korolkowii*: Vancouver (UBC), Feb18/87.  
*Campanula rotundifolia*: Vancouver (UBC), Feb18/87.  
*Campanula sartorii*: Vancouver (UBC), Feb18/87.  
*Convolvulus althaeoides*: Vancouver (UBC), Feb18/87.  
*Cyclamen cilicium*: Vancouver (UBC), Feb18/87.  
*Dianthus deltoides*: Vancouver (UBC), Feb19/87.  
*Erysimum wilczekianum*: Vancouver (UBC), Feb19/87.  
*Fragaria chiloensis*: Vancouver (UBC), Feb19/87.  
*Geum peruvianum*: Vancouver (UBC), Feb18/87.  
*Goniolimon speciosum*: Vancouver (UBC), Feb18/87.  
*Helleborus lividus*: Vancouver (UBC), Feb18/87.  
*Helleborus niger*: Vancouver (UBC), Feb18/87.  
*Hemerocallis* sp. : Vancouver (UBC), Feb19/87.  
*Incarvillea olgae*: Vancouver (UBC), Feb18/87.  
*Iris longipetala*: Vancouver (UBC), Feb19/87.  
*Lilium formosanum* var. *pricei*: Vancouver (UBC), Feb18/87.  
*Linum perenne* ssp. *lewisii*: Vancouver (UBC), Feb18/87.  
*Luzula banksiana*: Vancouver (UBC), Feb18/87.  
*Morina coulteriana*: Vancouver (UBC), Feb18/87.  
*Oenothera odorata*: Vancouver (UBC), Feb18/87.  
*Oenothera pilosella*: Vancouver (UBC), Feb18/87.

- Oenothera rosea*: Vancouver (UBC), Feb18/87.  
*Papaver alpinum* 'Plena': Vancouver (UBC), Feb18/87.  
*Pardanthopsis dichotoma*: Vancouver (UBC), Feb18/87.  
*Phuopsis stylosa*: Vancouver (UBC), Feb18/87.  
*Polemonium caeruleum* ssp. *amygdalinum*: Vancouver (UBC), Feb18/87.  
*Pratia nummularia*: Vancouver (UBC), Feb19/87.  
*Primula parryi*: Vancouver (UBC), Feb19/87.  
*Salix vestita*: Vancouver (UBC), Feb19/87.  
*Senecio abrotanifolius*: Vancouver (UBC), Feb18/87.  
*Typha orientalis*: Vancouver (UBC), Feb19/87.  
*Waldsteinia fragarioides*: Vancouver (UBC), Feb18/87.
- STELLARIAE Theobald, MACROSIPHUM
- Anthriscus cerefolium*: Vancouver (CDA), Jan12/88.  
*Gomphrena globosa*: Vancouver (CDA), Jan22/88.
- \*TENUICAUDA Bartholomew, MACROSIPHUM
- Apium graveolens*: Vancouver (CDA), Sep9/87.  
*Capsella bursa-pastoris*: Vancouver (CDA), Sep9/87.  
*Urtica dioica*: Peace Arch Park, Aug3/87
- TESTUDINACEUS (Fernie), PERIPHYLLUS
- Acer saccharum* ssp. *grandidentatum*: Vancouver (UBC), Oct20/87.
- TILIAE (Linnaeus), EUCALLIPTERUS
- Tilia platyphyllos* 'Lacinia': Vancouver (UBC), Aug8/56.
- ULMI (Linnaeus), ERIOSOMA
- Ulmus americana*: Vancouver (UBC), May22/58.
- VARIANS Patch, APHIS
- Epilobium angustifolium*: Kamloops, Aug11/54; Tofino, Aug9/87.
- WAKIBAE (Hottes), FIMBRIAPHIS
- Capsella bursa-pastoris*: Vancouver (CDA), Mar15/87.  
*Fragaria x ananassa* 'Totem': Vancouver (CDA), Mar15/87.  
*Fragaria vesca* 'Semperflorens': Vancouver (CDA), Mar15/87.  
*Rosa* 'Beauty Secret': Vancouver (CDA), Mar15/87.  
*Rosa rugosa* 'Hansa': Vancouver (UBC), Oct30/87.
- XYLOSTEI (de Geer), PROCIPHILUS
- Picea engelmannii*: Nelson, Nov20/87.  
*Picea glauca*: Quesnel, Oct6/87.

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