

ANNOTATED CHECKLIST OF VASCULAR PLANTS OF THE ISLANDS OF RICHMOND, BRITISH COLUMBIA

Draft

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(Please note that this is a working list currently in preparation and under review)

Of the **2316** vascular plants found in British Columbia, **592** plant species have been recorded to date for the municipality of Richmond. Richmond occupies a biogeographically interesting position in the delta of the Fraser River, one of the largest river systems in North America. It is unusual in that it is comprised of a series of sixteen deltaic islands: Barber, Don, Duck, Gilmore (Whitworth), Gunn, Iona, Lion, Lulu, Mitchell, Richmond, Rose, Sea, Shady (Steveston), Swishwash (Twigg/Eburne), Williamson, Woodward. Lulu is the largest of the islands, supporting the main component of the Municipality of Richmond, while Sea Island supports Vancouver International Airport, and Iona Island supports a sewage treatment plant and regional park. Many of the small islands are undeveloped and remain in a natural state, while some are managed as wildlife areas. However, Mitchell Island has been heavily industrialized, and natural areas remaining on it are relegated to a tiny park on the western tip, and small fringes of shoreline.

The flora of these islands is of interest to biogeographers because of its particularly dynamic nature. While there is a natural migration of species along the ocean coast and river corridor, a constant influx of plant species also occurs as a result of introductions via shipping and other transport, and from agricultural contaminants. This results in the presence of numerous alien species (235) from Asia, Europe and other parts of North America that intermingle with the native Pacific estuary flora. Constraints on these invasions are imposed by fluctuating water levels and associated silt deposits on the smaller, undyked islands. However, Lulu Island, which is dyked and has no such constraints, reflects the persistent immigration of alien species in the makeup of its flora.

In some instances, alien species displace the native species that provide critical habitat for wildlife and alter the dominance patterns of native plant communities. Plant species that may be problematic in Richmond include the highly invasive purple loosestrife (*Lythrum salicaria*), reed canary grass (*Phalaris arundinacea*), Himalayan blackberry (*Rubus armeniacus*) and evergreen blackberry (*Rubus laciniatus*). In peatlands, cultivated blueberries are heavy invaders, while the European birch (*Betula pendula*) and its hybrids occupy extensive tracts of land throughout the municipality, with a strong affinity for wetland sites.

In addition, over the last few decades, dyking, expansion and development in the city of Richmond has resulted in significant habitat loss on Lulu Island. This includes loss of the extensive natural marshlands that existed on the island prior to dyking. The bog ecosystems that once covered 25% or more of the island have nearly disappeared as a result of subdivision development, and cranberry and blueberry farming. Substantial drainage changes have resulted in a drying of the remaining peat lands, and a subsequent

reduction in numbers of bog species found on the island. As a result, the remaining natural areas on Lulu are important species banks for native flora. Areas such as the Richmond Nature Park bog, Department of National Defense (DND) bog and fens, Finn Slough, Sturgeon Banks marshes, and Iona Island dunes are vital to the survival of many species. These sites support a cross section of the natural habitat types that are representative of Richmond, and also support regionally rare plant communities, such as the DND fens and the Iona dunes.

The narrow band of shoreline meadows that occur along the perimeter of the island are also significant. The plant communities that occur in these areas (still subject to natural water level fluctuations within the tidal reach, and comprised of shooting stars (*Dodecatheon pulchellum*), Henderson's checkermallow (*Sidalcea hendersonii*), northern rein orchid (*Platanthera dilatata*), bog buckbean (*Menyanthes trifoliata*), and extensive swards of sedges and rushes) are dynamic and play a critical role in the ecology and resulting flora of the delta. Several **rare** plant species occur in these meadows, including false pimpernel (*Lindernia dubia*). Other rare plant species in Richmond include Vancouver Island beggarticks (*Bidens amplissima*), a wetland species that is endemic to the Pacific Northwest and is found globally only in British Columbia and adjacent Washington State. A total of **15 rare plant** species have so far been documented for Richmond.

To date, no comprehensive flora for Richmond has been prepared. In the past, several researchers have compiled vascular plant lists for sites such as the Richmond Nature Park, Sturgeon Banks and Shady Island. Currently, a larger work on the Flora of the Fraser Valley is in preparation (Ganders, Kennedy and Lomer, in prep.). When complete, this work will provide an interesting perspective on the dynamics of the flora and vegetation of the lower Fraser River valley.

The Richmond list

The draft checklist for Richmond was compiled from several sources. Frank Lomer has explored the Fraser Delta for many years, and has seen or collected many of the significant species on this list, in particular focusing on rare weeds. His work in the region is extensive and provides the frame of reference for this checklist.

Brian and Rose Klinkenberg have surveyed the Richmond vascular flora over the last three years, adding additional records, and collecting specimens to document the Richmond list. They have documented species occurrences in many of Richmond's natural areas. Collections by the authors have been deposited in the teaching herbarium at the Richmond Nature Park (RNP), and are or will be deposited at the University of British Columbia Herbarium (UBC).

Terry Taylor has also surveyed the plants in various natural areas in Richmond over the last thirty years, including Richmond Nature Park, Shady Island, Finn Slough and Iona Beach. Many records in this checklist come from his notes and publications.

Don Benson has provided several additions to the list based on his work in the lower mainland and in Richmond. In addition, Don has kindly reviewed the checklist for additions, deletions and corrections.

Additional plant records for Richmond were provided by Helen Kennedy and Fred Ganders, who provided data on Richmond plants from *The Flora of the Fraser Valley*, and the UBC Herbarium database.

Several others have contributed records for Richmond, including Laurence Brown, Jeanine Lucas, Adolph Ceska, Jocie Ingram, Alex Jamieson, and Hugh Griffith, while additional records for the municipality were found in earlier works by Katie Bell, Donald Watmough, Anne Cairns and others. The British Columbia Conservation Data Centre provided records for Richmond from the CDC database. A complete list of sources for the checklist is provided at the end of this document.

Nomenclature in this list generally follows Hitchcock and Cronquist (1981), although in some instances it follows Fernald (1970), and Douglas (1998-2002), etc. Common names vary both regionally and locally, and in many instances more than one common name is in use throughout the range of the species. In this checklist, common names frequently follows regional or local use, but in some instances, the authors have chosen from one of several commonly used names, and from common names provided in Fernald (1970).

Rare, Threatened or Endangered Species of Richmond

<i>Bidens amplissima</i> (Vancouver Island beggarticks)	Blue list
<i>Caltha palustris</i> ssp. <i>asarifolia</i> (marsh marigold)	Blue list
<i>Carex interrupta</i> (green-fruited sedge)	Red list
<i>Elatine rubella</i> (three-flowered waterwort)	Blue list
<i>Eleocharis parvula</i> (small spike-rush)	Blue list
<i>Elodea nuttallii</i> (Nuttall's waterweed)	Blue list
<i>Epilobium ciliatum</i> ssp. <i>watsonii</i> (purple-leaved willow-herb)	Blue list
<i>Glyceria occidentalis</i> (western manna grass)	Blue list
<i>Juncus oxymers</i> (pointed rush)	Blue list
<i>Leersia oryzoides</i> (rice cutgrass)	Blue list
<i>Lilaea scilloides</i> (flowering quillwort)	Blue list
<i>Lindernia dubia</i> var. <i>anagallidea</i> (false pimpernel)	Red list
<i>Myriophyllum ussuriense</i> (Ussurian water-milfoil)	Blue list
<i>Platanthera dilatata</i> var. <i>albiflora</i> (white bog orchid)*	Blue list
<i>Salix sessilifolia</i> (soft-leaved sandbar willow)	Blue list

* historical record for Steveston

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of the islands of
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AM = Moody, 1984	UBCD = University of British Columbia Herbarium Database
BE = Bell, 1984	RNP = Richmond Nature Park herbarium
Br = Brooks, 2001	UBC = University of British Columbia Herbarium
B = Benson, 2001	BS = Bath Slough
C = Cairns, n.d.	BAI = Barber Island
CR = Crins, 1986	DI = Don Island
GK = Ganders, Kennedy and Lomer, in prep.	DUI = Duck Island
H = Henry (UBC Database record)	FS = Finn Slough
I = Ingram	GL = Gilmore Island (Whitworth)
M = Moore and Taylor, 1992	GI = Gunn Island
K = Klinkenberg and Klinkenberg, 2000, 2001	II = Iona Island
L = Lomer, 1999	LNI = Lion Island
RJ = Runyan and Jamieson, 1990	LF = London Farm
S = Straley, 1989	LI = Lulu Island
T = Taylor, 1974, 1983, 1994, 1997, 2001 (pers. comm.)	MI = Mitchell Island
W = Watmough, 1982	RDI = Richmond Island
	RI = Rose Island
	SEI = Sea Island
	SI = Shady Island
	SB = Sturgeon Banks
	SW = Swishwash Island
	WLI = Williamson Island
	WI = Woodward Island
	++ = reported for the Richmond Nature Park.
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Latin Name	Common Name	Source & Voucher	Comments
All records are for Lulu Island unless otherwise indicated			
Aceraceae			
<i>Acer circinatum</i> Pursh.	vine maple	RJ/ K	native, landscape plant,
<i>Acer macrophyllum</i> Pursh.++	big-leaf maple	RJ/ K RNP	native, throughout Richmond
Alismataceae			
<i>Alisma lanceolatum</i> With.	water plantain	L	alien, European
<i>Alisma plantago-aquatica</i> var. <i>americana</i> Schultes & Schultes	water plantain	L/K RNP, UBC	native, occasional
<i>Sagittaria cuneata</i> Sheldon <i>Syn. S. arifolia</i> Nuttall	arrowhead	K	native
<i>Sagittaria latifolia</i> var. <i>latifolia</i> Willd.	arrowhead	L/K	native
Amaranthaceae			
<i>Amaranthus albus</i> L.	pigweed	L	alien, Europe, rare weed
<i>Amaranthus powellii</i> S. Wats	pigweed	L	alien, Europe
<i>Amaranthus retroflexus</i> L.	pigweed	L/K	alien, Europe, throughout
Anacardiaceae			
<i>Rhus glabra</i> L.	smooth sumac	L/K UBC	native, interior BC, accidental in our area, one plant along ditch, one in dredging material
<i>Rhus typhina</i> L.	staghorn sumac	K	alien, eastern Canada, planted/escape
Apiaceae			
<i>Aegopodium podagraria</i> L.	goutweed	L/K	alien, Europe
<i>Angelica genuflexa</i> Nutt.	kneeling angelic	L	native, Alaska to California
<i>Angelica lucida</i> L.	sea coast angel.	L	native, Siberia to n. California
<i>Anthriscus sylvestris</i> (L.) Hoffm.	cow parsley	L/K	alien, Europe
<i>Cicuta douglasii</i> (DC.) Coult & Rose	water hemlock	L/K	native, widespread Cordilleran
<i>Conioselenium pacificum</i> (S. Wats.) Boivin	Pacific hemlock parsley	L	native, tidal shores, LI
<i>Daucus carota</i> L.	wild carrot	L/K	alien, Europe
<i>Foeniculum vulgare</i> P. Mill.	fennel	L	alien, Europe, widely introduced
<i>Heracleum lanatum</i> Michx.	cow-parsnip	L/K	native, widespread in NA, Sib.
<i>Heracleum manegazzianum</i> Somm. & Lev.	giant cow-parsnip	L	alien, Asia
<i>Lilaeopsis occidentalis</i> Coult. & Rose	<i>lilaeopsis</i>	AM UBC	native, SI, Lulu
<i>Oenanthe sarmentosa</i> Presl.	water parsley	L/K RNP	native, w. Cascades, Alas.-Cal.
<i>Sium suave</i> Walt.	water parsnip	L/W/K	native, tidal shores, SI, LI

Aquifoliaceae

Ilex aquifolium L++ English holly L/K/T alien, Europe, RNP

Araceae

Lysichiton americanum Hult. & St. John skunk cabbage L/K native,, RNP, FS

Asteraceae

Achillea filipendulina Lam. yarrow L/GK UBC alien, Eurasia, Lomer 1991
Achillea millefolium L.++ yarrow L/K/T RNP native, RNP
(Syn. *A. borealis*)
Ambrosia artemisiifolia L. ragweed L/K alien, Europe, uncommon
Ambrosia chamissonis L. seabeach sandwort B
Anaphalis margaritacea (L.) Benth & Hook pearly everlasting L/K native
f. ex C. B. Clarke++
Anthemis cotula stinking chamomile K RNP alien, Europe
Arctium lappa L. great burdock L/K/GK UBC alien, Europe, Lomer, 1989
Arctium minus (Hill) Bernh. common burdock L/K alien, Eurasian
Artemisia absinthium L. wormwood L alien, Eurasian
Artemisia vulgaris L. wormwood L alien, Europe
Aster ciliolatus Lindl. in Hook Lindley's aster L/K native
Aster subspicatus Nees Douglas aster L/K RNP native
Bellis perennis L. English daisy K alien, Europe
Bidens cernua L. nodding beggartick L/K RNP native
Bidens amplissima++ Vancouver Island L/M/IB UBC native, blue list, RNP
beggartick
Bidens connata Muhl. ex. Willd. purple-stemmed GK/L UBC native, eastern NA, cranberry
beggartick L UBC bog (Lomer, 1995).
Bidens frondosa L. leafy beggartick L/K alien, Europe
Bidens tripartita L.++ European beggartick L/K RNP alien, Europe
Carthamnus tinctorius L. safflower GK UBC alien, Lomer 1989, 1994
Centaurea diffusa Lam. bushy knapweed L alien, Mediterranean,
Centaurea maculosa Lam. spotted knapweed L/K alien, Europe
Centaurea montana L. montane star-thistle L alien, Europe
Centaurea pratensis Thuill. meadow knapweed L/GK UBC alien, Europe, Rare weed,
Triangle Rd., a few plants in a
small patch, Lomer 1989
alien, Eurasia
Chrysanthemum leucanthemum L. ox-eye daisy K alien, Eurasia
syn. *Leucanthemum vulgare* Lam.
Cichorium intybus L. chickory K alien, Eurasia
Cirsium arvense (L.) Scop. var. Canada thistle L/K/M alien, Eurasia, SI
horridum (Wimm.) Grab.
Cirsium vulgare (Savi) Tenore++ bull thistle L/T/K alien, Eurasia
Conyza canadensis var. *glabrata* (A. Gray) Cronq. horseweed L/K/M alien, Eurasia
Cotula coronopifolia L. brass buttons C/M UBC alien, S. Africa, SB, LI, SI
Crepis capillaris (L.) Wallr. smooth hawksbeard L/K alien, Europe
Crepis nicaeensis French hawksbeard M alien, Europe, SI
Crepis tectorum L. annual hawksbeard L/K alien, Europe, rare, Lomer

Eupatorium maculatum L. ssp. bruneri (A. Gray) G. W. Dougl.	Joe-pye-weed	L/T		1989, s. Richmond native, eastern Canada.to southern BC, prob. not native here
Gnaphalium palustre	lowland cudweed	K	RNP	native
Gnaphalium stramineum Kunth. (syn. G. chilense Spreng.)	cotton-batton plant	L.		native
Gnaphalium uliginosum L.++	cudweed	L/K/T		alien, Europe
Helianthus annuus L.	sunflower	L		native in w. US, now widespread
Helianthus petiolaris Nutt. var. petiolaris Nutt. [check ssp. petiolaris]	sunflower	L	UBC	native to the Great Plain, LI vacnt lot, Lomer 1995
Hieracium aurantiacum L.	orange hawkweed	L		alien, Europe
Hieracium maculatum Sm.	spotted hawkweed	L		alien, Europe, rare
Hieracium saubaudum L.	European King Devil	L		alien, Europe, rare
Hypochaeris radicata L.++	hairy cat's ear	L/T		alien, Europe
Lactuca biennis (Moench) Fern.++	tall blue lettuce	L/K/T		native to BC
Lactuca canadensis var. canadensis L.	Canadian wild lettuce	L		alien, e. N.A.
Lactuca muralis (L.) Fresn.++	wall lettuce	L/K/T		alien, Europe
Lactuca serriola L.	prickly lettuce	L/M		alien, Europe, SI
Lapsana communis L. ++	nipplewort	L/T		alien, Eurasia Eurasian weed, encroaching into woodlands, RNP
Leontodon autumnalis L.	dandelion hawkbit	L/K		alien, Eurasia
Leontodon taraxacoides	hawkbit	L		alien, Eurasia, II
Madia glomerata Hook.	mountain tarweed	L		native, widespread Cordilleran species
Matricaria matricarioides (Less) Porter (Syn. M. discoidea DC)	pineapple weed	K	UBC	native, Cordilleran species
Matricaria perforata Merat	scentless mayweed	L	UBC	alien, Europe, RNP, Pojar and MacBryde 1974
Matricaria recutita L. (Syn. M. chamomilla L.)	German chamomile	K/L	UBC	alien, Europe, Lomer, 1995 Klinkenberg, 1999,
Senecio jacobaea L.	tansy ragwort	L		alien, Eurasia
Senecio sylvaticus L.	wood groundsel	L/M		alien, Europe, SI
Senecio viscosus L.	sticky ragwort	L		alien, Europe
Senecio vulgaris L.++	common groundsel	L/T/C	UBC	alien, Europe, Crins 1986
Solidago canadensis var. ? L.++	Canada goldenrod	L/K/W	RNP	native
Sonchus arvensis	common sow thistle	T		alien, Europe
var. arvensis L.	field sow-thistle	L/K/M		alien, Europe, SI
var. glabrescens Guenth., Grab. & Wimm. (Syn. S. uliginosus Bieb.)	marsh sow-thistle	L		alien, Europe
Sonchus asper (L.) Hill	prickly sow-thistle	L/M/K		alien, Europe, SI
Sonchus oleraceus L.	common sow-thistle	L		alien, Europe
Tanacetum vulgare L (syn. Chrysanthemum vulgare (L.) Bernh.)	tansy	L/M/K	RNP	alien, Europe
Taraxacum laevigatum (Willd.) DC	red-seeded dandelion	L		alien, Europe
Taraxacum officinale Webber in Wiggers++	common dandelion	L/K		alien, Europe
Tragopogon dubius Scop.	goatsbeard	L/K	RNP	alien, Europe
Tussilago farfara L.	coltsfoot	L		alien Eurasia, rare weed

<i>Xanthium strumarium</i> var. <i>canadensis</i> (P. Mill.) T. & G.	cocklebur	GK/L	UBC	edge of ditch, Lomer 1989
Balsaminaceae				
<i>Impatiens capensis</i> Meerb <i>Impatiens noli-tangere</i> L.	touch-me-not western touch-me-not	L/K/J S	UBC UBC	native native, very common under Knight St. bridge, Straley 1988
<i>Impatiens glandulifera</i> Royle	policeman's helmet	K	UBC	alien, Asia
Berberidaceae				
<i>Mahonia aquifolium</i> (Pursh) Nutt.	tall Oregon grape	L/K/S		native, RNP
Betulaceae				
<i>Alnus rubra</i> Bong++	red alder	L/K		native moist lowlands
<i>Betula papyrifera</i> Marsh var. <i>commutata</i> (Regel) Fern++	white birch	L/K		native to BC,
<i>Betula pendula</i> Roth++	European white birch	L/K		alien, Europe, common introduced birch, now more abundant than the native birch in the Fraser Valley; garden plant, hybridizes freely with other birches
<i>Betula x piper</i> a	hybrid birch	BE	RNP	thought to be the most common birch in the Richmond Nature Park (Bell, 1983); various crosses appear to be present throughout
<i>Corylus cornuta</i> var. <i>californica</i> Marsh. (Syn. <i>C. rostrata</i> Ait.)	beaked hazelnut	L/K		
Blechnaceae				
<i>Blechnum spicant</i> (L.) Roth++	deer fern	K/T		native, interruptedly circumboreal, RNP
Boraginaceae				
<i>Echium vulgare</i> L.	viper's bugloss	L/K		alien, Europe
<i>Lappula echinata</i> Bilib.	common stickseed	L		alien, Eurasia, rare weed
<i>Myosotis arvensis</i> (L.) Hill	field forget-me-not	GK	UBC	alien, Europe, Ashlee 1923, LI
<i>Myosotis discolor</i> Pers.	yellow & blue forget-me-not	L		alien, Europe
<i>Myosotis laxa</i> Lehm.	small-flowered forget-me-not	L/K		native, interruptedly circumboreal
<i>Myosotis scorpioides</i> L. (Syn. <i>M. palustris</i>)	common forget-me-not	L/K		alien, Europe
<i>Myosotis stricta</i> Link ex Roemer & Schultes	forget-me-not	L		alien, Europe

<i>Myosotis sylvatica</i> G. F. Hoffm.	wood forget-me-not	L		alien, Europe
<i>Symphytum asperum</i> Lepech.	rough comfrey	L/K	UBC	alien, Europe, Sea Is., Macdonald Beach, Lomer 1994
<i>Symphytum ibericum</i> Steven	creeping comfrey	GK/L	UBC	grassy dyke on Fraser, Lomer 1993
<i>Symphytum x uplandicum</i> Nyman	Russian comfrey	L		often confused with officinale, this is the common comfrey

Brassicaceae

<i>Amoracia rusticana</i> P. Gaertner, Meyer & Scherb.	horse radish	L		alien, Europe
<i>Arabidopsis thaliana</i> (L.) Heynh.	common wall cress	L		alien, Eurasia
<i>Barbarea orthoceras</i> Ledeb.	wintercress	L		native, NA, Eurasia
<i>Barbarea verna</i> (P. Mill.) Asch	wintercress	L		alien, Europe
<i>Brassica hirta</i> Moench	white mustard	L		alien, Eurasia
<i>Brassica juncea</i> (L.) Coss.	Chinese mustard	L		alien, Asia
<i>Brassica kaber</i> (DC.) L. C. Wheeler	wild mustard	L		alien, Eurasia
<i>Cakile edentula</i> (Bigel.) Hook.	sea rocket	L/K/M		native, sand beaches, SI
<i>Capsella bursa-pastoris</i> (L.) Medic	shepherd's purse	K/L		alien, Eurasia
<i>Cardamine hirsuta</i> L.	bittercress	L		alien, Eurasia
<i>Cardamine oligospermum</i> Nutt.	little western bittercress	L		native
<i>Cardamine pensylvanica</i> Muhl. ex Willd.	Pacific bittercress	L	UBC	native, II, low sandy ridges, Crins, 1986
<i>Cardamine pratensis</i> L. var. var. <i>angustifolia</i> Hook.	bittercress	L	UBC	alien, Eurasia, s. Richmond, 1973, Lomer, 1991
<i>Coronopus didymus</i> (L.) Sm.	wartcress	L	UBC	alien, S. Am., rare weed, Iona Island sewage lagoons, Crins, 1986
<i>Descurainia sophia</i> (L.) Webb ex Prantl	tansy mustard	L		alien, Eurasia
<i>Draba verna</i> L.++	whitlow-grass	L/K		alien, Eurasia
<i>Erysimum cheiranthoides</i> L.	wormseed mustard	L		alien, Eurasia
<i>Hesperis matronalis</i>	Damask violet	L		alien, Eurasia
<i>Lepidium campestre</i> (L.) R. Br.	field peppergrass	L		alien, Eurasia
<i>Lepidium densiflorum</i> L.	common peppergrass	L		native, US, Canada, Eurasia
<i>Lepidium heterophyllum</i> (DC.) Benth	peppergrass	L		alien, Europe
<i>Lunaria annua</i> L.	honesty	L		alien, Europe
<i>Neslia paniculata</i> (L.) Desv.	ball mustard	L/GK	UBC	rare weed, between railroad tracks, Lomer 1991
<i>Raphanus raphanistrum</i> L.++	wild radish	GK/L	UBC	alien, Europe
<i>Raphanus sativus</i> L.	radish	L		alien, Europe, rare escape
<i>Rorippa curvipes</i>	radish	L		alien, Europe
<i>Rorippa palustris</i> (L.) Bess (Syn. <i>R. islandica</i>)	marsh yellowcress	L/K		native, circumboreal
<i>Rorippa sylvestris</i> (L.) Bess	creeping yellowcress	L		alien, Europe
<i>Sisymbrium altissimum</i> L.	tumblemustard		L	alien, Europe
<i>Sisymbrium loeselii</i> L.	hedge mustard	L		alien, Europe
<i>Sisymbrium officinale</i> (L.) Scop.++	hedge mustard	L/K		alien, Europe
<i>Teesdalia nudicaulis</i> (L.) R. Br.	Shephard's cress	L		alien, Europe
<i>Thlaspi arvense</i> L.	pennycress	L/K		alien, Europe

Buddlejaceae

Buddleja davidii L. butterfly-bush L/K alien, China

Callitrichaceae

Callitriche heterophylla Pursh. water-starwort GK/L UBC
ssp. *bolanderi* (Hegel.) Calder & Taylor T
Callitriche stagnalis Scop. pond water-starwort K RNP
native, in pools in landfill site, (Lomer) 1991
Chiefly in w. US
alien, Europe

Campanulaceae

Campanula rapunculoides L. creeping bellflower L/K alien, Eurasia

Caprifoliaceae

Lonicera ciliosa (Pursh) DC++ trumpet honeysuckle L/K/T native, widespread native twining vine, RNP
Lonicera hispidula (Lindl.) Dougl. In T. & G. hairy honeysuckle L native, western Cascades one site in Richmond
Lonicera involucrata (Richards) Banks ex. Spreng. ++ black twinberry L/T native, widespread Cordilleran species, RNP
Sambucus racemosa ssp. *pubescens* var. *arborescens* (Michx.) House ++ coast red elderberry K/T native, RNP, throughout
Symphoricarpus albus var. *laevigatus* (L.) Blake snowberry L/K/T native, throughout, readily seeds in
Viburnum opulus L. guelder rose T native, FS, Taylor, 1994

Caryophyllaceae

Arenaria serpyllifolia L. thyme-leaved sandwort L alien, Eurasia
Cerastium fontanum ssp. *triviale* L.++ sandwort L/K/W alien, Eurasia, Lomer, 1999
Cerastium glomeratum Thuill. sandwort L alien, Eurasia, Lomer 1999
Cerastium pumilum little mouse-ear chickweed L alien, Eurasia, Lomer, 1999, similar to *semidecandrum*
Cerastium semidecandrum L. chickweed L alien, Eurasia, Lomer, 1999
Gypsophila scorzonerifolia L. baby's breath L alien, Asia, rare weed, Lomer, foot of No. 9 Rd. (1988), in gypsum piles
Honkenya peploides seabeach sandwort B native, Benson, 2001, II
Sagina procumbens L. pearlwort L alien, Europe
Silene alba (P. Mill.) Krause in Sturm catchfly L alien, Europe, Lomer, 1999
Silene antirrhina L. sleepy catchfly L European weed
Silene dichotoma Ehrh. forked catchfly GK/L UBC alien, Europe, rare weed, 100's of plants along 1/2 km stretch of road south of blueberry farm, dry gravel, Lomer 1989, roadside, LI
Silene dioica catchfly K alien, Europe, rare weed
Silene noctiflora L. sticky cockle L
Spergula arvensis L. starwort L alien, Europe

<i>Spergularia canadensis</i>	Canadian sand spurry	K	UBC	alien, Europe, Iona beach dune meadows
<i>Spergularia rubra</i> (L.) J. & C. Presl	red sand spurry	L/M		alien, Europe, SI
<i>Spergularia marina</i> (L.) Griseb.	saltmarsh sand spurry		UBC	alien, Europe, II, sewage lagoons, dry open sand dyke between lagoons, Crins, 1986
<i>Stellaria calycantha</i> L.	starwort			native, mostly montane
<i>Stellaria media</i> (L.) Vill++.	chickweed	L/T/K		alien, Eurasia, common
Ceratophyllaceae				
<i>Ceratophyllum demersum</i> L.	coontail	L/K		native
Chenopodiaceae				
<i>Atriplex subspicata</i>	goosefoot	L		native, beaches
<i>Atriplex hastata</i> Linn. (<i>Syn.</i> (<i>Syn.</i> <i>A. patula</i> L. var. <i>hastata</i> (L.) Gray)	fat-hen	L/GK	UBC	alien, Eurasia, near Triangle
<i>Atriplex heterosperma</i> Bunge	saltbush	L	UBC	alien, Eurasia, rare weed seen once, along Westminster Hwy., single plant
<i>Chenopodium album</i> ssp.? L.	lamb's quarters	L/K/M		alien, Eurasia, common
<i>Chenopodium botrys</i> L.	Jerusalem-oak	L		
<i>Corispermum hyssopifolium</i> L.	common bugseed	K/L/M	UBC	alien, Eurasia, SI, sand dredgings
<i>Cycloloma atriplicifolium</i> (Spreng.) Coult.		L		alien, rare weed seen only once, only record for BC, just west of railroad bridge on River Rd., Lomer 1995
<i>Salicornia virginica</i>	American glasswort	K	UBC	Iona Beach, dune meadow
<i>Salsola kali</i> L.	Russian thistle	K/L		alien, Eurasia
Convolvulaceae				
<i>Convolvulus sepium</i> L.	common morninglory	K/L	RNP	alien, Europe
Cornaceae				
<i>Cornus intermedia</i> L.	bunchberry	L		native, sight record
<i>Cornus nuttallii</i> Aud. Ex T. & G.	flowering dogwood	J		native, BC, planted here
<i>Cornus stolonifera</i> Michx.++	red-osier dogwood	K/L/T	RNP	native, throughout
Crassulaceae				
<i>Crassula aquatica</i> (L.) Schoenl.	pygmyweed	L		native, shores of Fraser
<i>Sedum divergens</i> Wats.	stonecrop	K	RNP	roadside, No. 7 Rd.
<i>Penthorum sedoides</i> L.	Virginia stonecrop	L	UBC	native eastern NA cranberry field, Lomer, 2001, NEW PLANT FOR BC
Cupressaceae				

Thuja plicata Donn ex. D. Donn in Lamb	cedar	J		native, planted here
Cyperaceae				
Carex arcta Boott	sedge	L		native
Carex bebbii (Bailey) Fern.	sedge	K	UBC	native
Carex canescens ssp. ? L.++	gray sedge	T/K	UBC	native in peat bogs, RNP
Carex crawfordii Fern.	sedge	L		native
Carex cusickii Mack in Piper & Beattle	sedge	L		native
Carex deweyana Schwein.	sedge	L		native
Carex lanuginosa Michx.	sedge	L		native
Carex lyngbyei Hornem.	sedge	AM/K	UBC	native, common
Carex macrocephala Willd. in Spreng	large-headed sedge	K	RNP	native, regionally uncommon
Carex obnupta Bailey	sedge	L		native
Carex pachystachya Chem. Ex Steud.	sedge	L		native
Carex interrupta L.	interrupted sedge	L		native, rare in BC, along tracks
Carex sitchensis Prescott in Bong.	sedge	L/K		native
Carex stipata Muhl. ex Willd.	sedge	L/K		native
Carex strigosus L.	straw-coloured cyperus	L		native
Carex tracyi	sedge	L		native
Carex utriculata	sedge	K/L		native
Cyperus erythrorhizos Muhl.	red-rooted cyperus	L/GK	UBC	native, e NA, introduced in area, west of Queensborough, Lomer 1993
Cyperus retrorsus Chapm.	cyperus	L/GK	UBC	native, e NA, rare, cranberry field, Lomer 1995, LI–single plant 1 m tall
Cyperus strigosus	cyperus	L	?	native to e. NA
Dulichium arundinaceu;m (L.) Britt.++	sedge	T/K	UBC/RNP	native to BC, RNP
Eleocharis acicularis (L.) Roem & Schult.	spike rush	L		
Eleocharis obtusa (Willd.) Schultz	spike rush	L	UBC	native, e Richmond, near river, Taylor & Foremen, 1982
Eleocharis palustris (L.) Roem & Schult.++	spike rush	T		native to BC, RNP
Eleocharis parvula (Roem & Schult.) Link ex Bluff & Fingerh.	spike rush	L		native, rare in BC, II,
Eriophorum chamissonis C. A. Meyer++	tawny cotton grass	T/K/C		native, RNP
Eriophorum virginicum L.	cotton grass	GK/L	UBC	native e NA, introduced here, near Triangle Rd., Lomer 1991
Rhynchospora alba (L.) Vahl.++	beak rush	T/C/K	RNP/UBC	native
Scirpus acutus Muhl.	hard-stem bulrush	C/K		native, SB
Scirpus americanus Pers.++ (The most recent proposed name for this species is Schoenoplectus americanus (Persoon) Volk. Ex Schinz & R. Keller)—see BEN 218, March 18, 1999)	three-square	W/C/K		native, SI, RNP
Scirpus cernuus Vahl.	low clubrush	L/B		native, SI, II
Scirpus cyperinus var. brachypodius (Fern.) Gilly	wool grass	L/K	RNP	native, RNP
Scirpus maritimus var. paludosus (A. Nels.) Kuekenh.	seacoast bulrush	L/C/K		native, SI
Scirpus microcarpus Presl.++	small-fruited bulrush	L/K	RNP	native

<i>Scirpus validus</i> Vahl.	soft-stem bulrush	L/W/C		native, SI, SB
Dennstaedtiaceae				
<i>Pteridium aquilinum</i> (L.) Kuhn++	bracken fern	L/K		native
Droseraceae				
<i>Drosera rotundifolia</i> L.++ <i>Drosera anglica</i> L.	round-leaved sundew narrow-leaved sundew	K/T UBCD	RNP UBC	native to BC, Peat bog native, historical record, 1897, 1898
Dryopteridaceae				
<i>Athyrium felix-femina</i> ssp. <i>cyclosorum</i> (Rupr.) C. Christ in Hult.++	lady fern	T/K		native
<i>Dryopteris austriaca</i> ++ <i>Polystichum munitum</i> (Kaulf.) K. B.++	spiny wood fern sword fern	T K/T/MT		native, circumboreal native to BC, SI
Elatinaceae				
<i>Elatine rubella</i> Rydb	water-wort	L		Rare; muddy shores of Fraser
Equisetaceae				
<i>Equisetum arvense</i> L.++	common horsetail	L/M/T /K	RNP	native
<i>Equisetum fluviatile</i> L. em. Ehrh <i>Equisetum hyemale</i> ssp. <i>affine</i> (Engelm.) Stone	water horsetail Dutch rush	L/K L/MT		native
<i>Equisetum palustre</i> L.	marsh horsetail	UBCD/ K	UBC	native, Krajina, 1970
<i>Equisetum telmateia</i> ssp. <i>Braunii</i> (Milde) Hauke	giant horsetail	L/K	UBC	native
Ericaceae				
<i>Andromeda polifolia</i> L.++ <i>Arctostaphylos uva-ursi</i> (L.) Spreng <i>Calluna vulgaris</i> (L.) Hull++	bog rosemary bearberry heather	K/T K/J T/K	RNP RNP	native, circumboreal native alien, Europe, invasive in peat bogs, fire response species
<i>Gaultheria shallon</i> Pursh++ <i>Kalmia microphylla</i> ssp. <i>polifolia</i> (Small) Taylor & MacBryde (<i>Syn. Kalmia polifolia</i> ssp. <i>occidentalis</i>)++	salal bog laurel	L/K/T T/K/L	UBC/RNP UBC/RNP	native native
<i>Rhododendron groenlandicum</i> Oeder++ (<i>Syn. Ledum groenlandicum</i>)	Labrador tea	K/L/T	UBC/RNP	native
<i>Pyrola asarifolia</i> var. <i>purpurea</i> (Bunge) Fern.	wintergreen	L	?	rare in Richmond, single site]
<i>Vaccinium corymbosum</i> L.++	cultivated blueberry	K/L	RNP	native e NA, escaped, invasive in local bogs

Vaccinium macrocarpon Ait. ++	cultivated cranberry	K/L	UBC/RNP	native ne NA, invasive in local bogs
Vaccinium oxycoccus L (in part) Schmal. (<i>Syn. Oxycoccus macrocarpus</i> Turc, ex. Rup.) Schmal., <i>Vaccinium microcarpon</i> Turc. ex. Rup.)	dwarf cranberry	T/K	RNP	native Watch for V. palustris (single flowered, small leaved– see note by Jan Suda in BEN Sept.17/99 (Includes tetraploid, hexaploid and pentaploid plants). native native native at higher elevations, introduced here, east section of RNP, Taylor 1973
Vaccinium myrtilloides Michx.++	velvet-leaf blueberry	L/T/K	RNP	native
Vaccinium ovalifolium Sm.	oval-leafed huckleberry	L		native
Vaccinium uliginosum ssp. pubescens++	blueberry	L/T	UBC	native
Vaccinium vitis-idaea L.	lignoberry	T	UBC	native at higher elevations, introduced here, east section of RNP, Taylor 1973

Euphorbiaceae

Euphorbia lathyris L.	spurge	L		alien, Europe
Euphorbia peplus L.	spurge	L/GK	UBC	alien, Europe, Lomer 1991
Euphorbia supina L.	milk spurge	L/GK	UBC	native, s US, rare, Lomer 1995

Fabaceae

Astragalus canadensis L.	astragalus	L/K		native to eastern BC
Cytisus scoparius (L.) Link++	broom	L/T/K		alien, Europe, invasive
Humulus lupulus L.	hops	T/K	RNP	alien, Europe
Laburnum anagyroides Medic.	golden chain tree	L/K		alien, Europe
Lathyrus japonicus var. glabra (Ser.) Fern.	beach pea	K/L/W	RNP	native, shorelines
Lathyrus latifolius L.	everlasting pea	L/K	RNP	alien, Europe
Lathyrus palustris L.	marsh pea	L/K	RNP	native, river marshes
Lens esculenta	lentil	L		alien, Europe
Lotus pedunculatus Cav.	stalked bird's foot trefoil	L/K	RNP	alien, Eurasia
Lupinus arboreus Sims.	yellow bush lupine	L	UBC	native sw US
Lupinus bicolor Lindl. Syn. L. micranthus Dougl. var. bicolor	two-coloured lupine	L		native,
Lupinus littoralis Dougl. Ex. Lindl.	seashore lupine	L/K	UBC	native,
Lupinus polyphyllus Lindl.	large-leaved lupine	L		native
Lupinus x polyphullus	Russell hybrid	K		introduced, Garry Point
Medicago lupulina L.	black medic	L/K/M	RNP	alien, Eurasia
Medicago sativa L.	alfalfa	L/K	RNP	alien, Eurasia
Melilotus alba Desr. ++	white sweet clover	L/K	RNP	alien, Eurasia, invasive
Melilotus officinalis (L.) Lam.	yellow sweet clover	L/K	RNP	alien, Eurasia, invasive
Oxytropis campestris (L.) DC var. gracilis (Nels.) Barn.	slender locoweed		L	naive to the Pacific NW and western Great Plains; single plant from dredgings, Lomer 1989
Trifolium arvense L.	hare's foot clover	L/K	RNP	alien, Eurasia
Trifolium campestre	hop clover	L		alien, Europe

<i>Trifolium dubium</i> Sibth.	small hop clover	L		alien, Europe
<i>Trifolium hybridum</i> L.	red clover	L/K		alien, Eurasia
<i>Trifolium pratense</i> L.++	red clover	L/T/K	RNP	alien, Eurasia
<i>Trifolium repens</i> L.++	white clover	L/K/T	RNP	alien, Eurasia
<i>Trifolium wormskjoldii</i> Lehm.	spring bank clover	L/M/K	UBC	native, river marshes, SI
<i>Vicia cracca</i> L.	common vetch	L/K/T		alien, Eurasia
<i>Vicia gigantea</i> Hook.	vetch	L/K		native
<i>Vicia hirsuta</i> (L.) S. F. Gray	tiny vetch	L/K		alien, Eurasia
<i>Vicia sativa</i> var.? L.	common vetch	L		alien, Eurasia
<i>Vicia tetrasperma</i> (L.) Moench	slender vetch	L		alien, Eurasia
<i>Vicia villosa</i> Roth	hairy vetch	L		alien, Eurasia
Fagaceae				
<i>Quercus robur</i>	white oak	T		alien, eastern NA, squirrel food
Fumuriaceae				
<i>Fumaria bastardii</i>	bastard fumitory	L		alien, Europe
Geraniaceae				
<i>Erodium cicutarium</i> (L.) L'Her in Ait.	common stork's bill	L		alien, Europe
<i>Geranium bicknellii</i> Britt	Bicknell's geranium	L/K	UBC	native, Fraser, Lomer 1989
<i>Geranium dissectum</i> L.	cut-leaf crane's bill	L/K		alien, Eurasia
<i>Geranium molle</i> L.	dove's foot geranium	L/K		alien, Eurasia, Iona Is.
<i>Geranium robertianum</i> L.	herb-robert	L/K		alien, Eurasia
Haloragaceae				
<i>Myriophyllum aquaticum</i>	parrot's feather	K	UBC	alien, S. America, in ditches
<i>Myriophyllum spicatum</i> L.	water milfoil	L/GK	UBC	alien, Eurasia,, Woodward's Slough
<i>Myriophyllum ussuriense</i> (Regel.)	Ussurian water milfoil	L		native, Rare in BC
Hydrocharitaceae				
<i>Elodea canadensis</i> Rich. in Michx.	Canada waterweed	L/K		native
<i>Elodea nuttallii</i> (Planch) St. John	Nuttall's waterweed	L	?	native, rare in BC, ditches
Hypericaceae				
<i>Hypericum anagalloides</i> Cham. & Schlecht	bog St. Johnswort	L/K		native
<i>Hypericum boreale</i> (Britt.) Bickn.	St. Johnswort	L	UBC	alien, e. NA
<i>Hypericum formosum</i> var. <i>scouleri</i> (Hook.) Hitch.	western St. Johnswort	L/GK	UBC	native, scattered plants tidal shore, Lomer, 1993
<i>Hypericum majus</i> (A. Gray) Britt.	St. Johnswort	L/GK	UBC	native, Rare in BC, Lomer 1989
<i>Hypericum perforatum</i> L.	common St. Johnswort	L/K/M	RNP, UBC	alien, Europe, SI
<i>Hypericum mutilum</i>	St. Johnswort	L		alien, e. NA
<i>Triadenum virginicum</i> (L.) Raf. spp. <i>fraseri</i> (Spach.) Gillett	.	L/GK	UBC	alien, e. NA, in cranberry bogs Lomer, 1989

Iridaceae

Iris pseudacorus L. yellow flag L/K alien, Eurasia

Juncaceae

Juncus acuminatus Michx. tapered rush L/K/M UBC native, SI, LI, 1998, Ashlee

Juncus articulatus jointed rush L/K native

Juncus balticus var. *balticus* Willd. Baltic rush L/K/M native, SI

Juncus brevicaudatus rush L alien, e. NA

Juncus bufonius L. toad rush L/K alien, Eurasia

Juncus canadensis J. Gay ex Laharpe Canada rush L alien, e. NA, cranberry fields

Juncus effusus L. ++ common rush L/K/T native to BC, RNP

Juncus ensifolius Wikstr. dagger-leaved rush L/K native

Juncus nodosus L. tuberous rush L native to e. BC

Juncus oxymeris Engelm. pointed rush L/K UBC native, rare

Juncus pelocarpus Meyer rush L alien, e. NA

Juncus tenuis Willd. slender rush L/K native

Luzula sp++ wood rush T RNP native

Juncaginaceae

Lilaea scilloides (Poir.) Hauman quillwort L native, rare in BC

Triglochin maritimum L. beach arrowgrass L/K native

Lamiaceae

Galeopsis tetrahit L. hemp nettle L alien, Eurasia

Glechoma hederacea L. ground ivy L/K alien, Eurasia

Lamium hybridum Vill. hybrid dead-nettle GK UBC alien, Eurasia, SI, near Arthur Laing Bridge, Schofield and Taylor 1978

Lamium purpureum L. purple dead nettle T/K UBC alien, Europe, south of River Rd., Taylor, 1980

Lamiustrum galeobdolon (L.) Ehrend. yellow archangel L alien, Europe

Lycopus eruopaeus L. European water horehound L/K RNP alien, Eurasia, often confused with *americanus*, SI

Lycopus uniflorus Michx. northern water horehound L native

Mentha aquatica lemon mint L alien, Europe, listed in flora

Mentha arvensis L. field mint L/K native

Mentha x piperita var. *piperita* L. mint L/K UBC alien, Europe, Lomer 1989

Mentha suaveolens Ehrh. applemint L/GK UBC alien, Europe, north of Triangle Rd., Lomer 1989

Mentha spicata L. spearmint L/K alien, Europe

Prunella vulgaris L. heal-all L/K alien, Europe

Salvia reflexa Hornem salvia L alien, c. US, rare, introduced

Schizonepeta tenuifolia (Benth.) Briq. Japanese catnip L UBC alien, Asian, No. 3 Rd and Cambie St. (1995)

Lemnaceae

Lemna minor L.++	duckweed	L/K/T		native, RNP
Spirodella polyrhiza (L.) Sshleid.	spirodeal	L		native
Wolffia borealis (Engelm. ex. Heglmaier) Landolt & Wildi.	water meal	L	UBC	native, rare, ditches

Lentibulariaceae

Utricularia macrorhiza Le Conte	greater bladderwort	L/K		native
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Liliaceae

Allium cernuum Roth in Roem.	nodding wild onion	K/C		native elsewhere, escape here
Asparagus officinalis L.	asparagus	L/K		alien, Europe
Fritillaria camschatcensis (L.) Ker. Gawl.	black lily	K/L		native, marshy shores FS
Hyacinthoides non-scripta	blueball	L		aline, garden escape–check
Maianthemum dilatatum (Wood) Nels. & Macbr.	lily-of-the-valley	UBCD		native, railway track, Granville with Sphagnum, Franko et al. 1976

Linaceae

Linum usitatissimum L.	flax	L		alien, Eurasia, occasional
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Lycopodiaceae

Lycopodium complanatum L.	running club-moss	T		native, RNP
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Lythraceae

Lythrum salicaria L.	purple loosestrife	L/K		alien Eurasia
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Malvaceae

Abutilon theophrasti Medic.	velvet leaf	L		alien, Eurasia, rare weed
Sidalcea hendersonii S. Wats.	Henderson's checker mallow	L/K		native, FS

Melastomaceae

Rhexia virginica L.	rhexia	UBCD	UBC	alien, e. US, LI, Eastham 1937
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Menyanthaceae

Menyanthes trifoliata L.	bog buckbean	K/L	UBC/RNP	native, GI
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Myricaceae

Myrica gale L.	sweet gale	L/M		native, SI, boggy shores
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Nymphaeaceae

Nuphar polysepalum Engelm.++	Indian pond lily	L/T		native, RNP
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<i>Nymphaea odorata</i> L.	white water lily	K		alien, e. NA, ditches
Onagraceae				
<i>Epilobium angustifolium</i> L.++	fireweed	K/L/T		native
<i>Epilobium brachycarpum</i> Presl.	Tall annual willowherb	L/MT		native, SI
<i>Epilobium ciliatum</i> ssp. <i>ciliatum</i> Raf.	purple-leaved willowherb	L		native
<i>Epilobium ciliatum</i> ssp. <i>watsonii</i> (Barbey) Hoch & Raven	purple-leaved willowherb	MT/TK	UBC	native, RNP, SI
<i>Epilobium minutum</i> Lindl. ex Lehm. in Hook.	small-flowered willowherb	L		rare, Fraser marshy shores
<i>Oenothera biennis</i> L.	evening primrose	L/K		native
<i>Oenothera glazioviana</i> Michell	red-sepaled evening primrose	L		alien, e. NA, SI alien, Europe, SI
Orchidaceae				
<i>Epipactis helleborine</i> (L.) Crantz.	helleborine	L		alien, Europe
<i>Platanthera dilatata</i> var. <i>dilatata</i>	white rein orchid	K/L	UBC	native
<i>Platanthera dilatata</i> var. <i>albiflora</i>	white rein orchid		CDC	native, historical record from Steveston
<i>Platanthera dilatata</i> var. <i>leucostachys</i>	white rein orchid	L		
Oxalidaceae				
<i>Oxalis corniculata</i> L.	yellow oxalis	L./K		alien, Eurasia
<i>Oxalis stricta</i> L.	upright yellow oxalis	K/L GK	UBC	alien, e. NA. Pacific Coast golf centre, south Richmond, in dry dredged sand, a single plant, Lomer 1989
Papaveraceae				
<i>Eschscholzia californica</i> Cham. in Nees	California poppy	L/K		alien, sw US, seeded
<i>Papaver dubium</i> L.	long-headed poppy	L/GK	UBC	alien, Europe, rare garden escape/seeded, Lomer 1994
<i>Papaver somniferum</i> L.	opium poppy	L/K		alien, Eurasia
Pinaceae				
<i>Picea sitchensis</i> (Bong.) Carr	Sitka spruce	L/B		native, planted at II
<i>Pinus contorta</i> var. <i>contorta</i> Dougl. ++ ex Loud.	shore pine	T/K		native
<i>Pseudotsuga menziesii</i> (Mirb.) Franco++	Douglas fir	T/K		native, planted here
<i>Tsuga heterophylla</i> (Raf.) Sarg.++	western hemlock	T/K		native
Plantaginaceae				
<i>Plantago lanceolata</i> L.++	English plantain	L/K/T		alien, Europe
<i>Plantago major</i> L.++	common plantain	L/K/T		alien, Europe
<i>Plantago maritima</i> ssp. <i>juncoides</i>	maritime plantain	L/K		native, circumpolar, Iona jetty

(Lam.) Hult.

Poaceae

<i>Agrostis alba</i> ++ = <i>A. gigantea</i>	red top	T/K/L	UBC	alien, Europe, RNP
<i>Agrostis exarata</i> Trin.	spike bentgrass	L		native
<i>Agrostis stolonifera</i> L. = <i>A. palustris</i>	creeping bentgrass	M		alien, Europe, SI
<i>Aira caryophylla</i> L.	silver hairgrass	M		alien, Europe, SI
<i>Aira praecox</i> L.	early hairgrass	GK/L	UBC	alien, Europe, Iona Island, growing in sand near river
<i>Alopecurus geniculatus</i> L.++	water foxtail	T		native
<i>Alopecurus pratensis</i> L.++	foxtail	T		alien, Europe, RNP
<i>Anthoxanthum odoratum</i> L.++	sweet grass	M/L		alien, Europe, SI
<i>Arrhenatherum elatius</i> (L.) Beauv. ex Presl. & Presl.		L.		
<i>Avena fatua</i> L.	wild oats	K/L		alien, Europe
<i>Avena sativa</i> L.	cultivated oats	T		alien, Europe
<i>Bromus hordeaceus</i> L.	soft brome	L		alien, Europe
<i>Bromus inermis</i> ssp. <i>inermis</i> Leys	smooth brome	L		alien, Europe, abundant n. arm
<i>Bromus sitchensis</i> Trin.	Alaska brome	L		native
<i>Bromus sterilis</i> L.	smooth brome	L		alien, Europe
<i>Bromus tectorum</i> L.	downy brome	M		alien, Europe, SI
<i>Calamagrostis canadensis</i> var. <i>canadensis</i> (Michx.) Beauv.	bluejoint	K		native
<i>Cinna latifolia</i> (Trevir) Griseb.	wood reed	GK/L	UBC	native, River Rd., Lomer 1989, moist ground in peaty soil beneath railroad trestle
<i>Dactylis glomerata</i> L.	orchard grass	K		alien, Europe
<i>Danthonia spicata</i> (L.) Beauv. ex Roem. & Schult.	common wild oatgrass	L		native, rare in dredged sand
<i>Deschampsia cespitosa</i> ssp. <i>beringensis</i> (Hult.) Lawrence	tufted hairgrass	L		native
<i>Digitaria ischaemum</i> (Schreb. ex Schweig.) Schreb. ex Muhl.	smooth crabgrass L			alien, Eurasia
<i>Digitaria sanguinalis</i> (L.) Scop.	hairy crabgrass	L		alien, Eurasia
<i>Distichlis spicata</i> var. <i>spicata</i> (L.) Greene	seashore saltgrass	L		native
<i>Echinochloa crusgalli</i> (L.) Beauv.	large barnyard grass	K		alien, Eurasia
<i>Elymus glaucus</i> ssp. <i>glaucus</i> Buckl.	wild ryegrass	L		native
<i>Elymus repens</i> (L.) Nevski	ryegrass	K/L		alien, Europe
<i>Eragrostis cilianensis</i> (All.) Mosher	stinkgrass	L		alien, Europe, rare
<i>Eragrostis multicaulis</i> Steud.	many-sided <i>Eragrostis</i>	L		alien, Eurasia
<i>Festuca arundinacea</i> Schreb.	tall fescue	M		alien, Eurasia, SI
<i>Festuca rubra</i> L.	red fescue	L		native
<i>Glyceria canadensis</i> (Michx.) Trin.	mannagrass	GK/L	UBC	alien, e. NA, Lomer, 1989
<i>Glyceria grandis</i> S. Wats. ex A. Gray	reed mannagrass	L		native
<i>Glyceria occidentalis</i> (Piper) Nek.	western mannagrass	L		native, rare in BC
<i>Holcus lanatus</i> L.++	velvet grass	L		alien, Europe
<i>Holcus mollis</i> L.	creeping velvet grass	L		alien, Europe
<i>Hordeum jubatum</i> ssp. <i>jubatum</i> L.	squirrel-tail barley	L		native
<i>Hordeum murinum</i> ssp. <i>murinum</i> L.	mouse barley	M		alien, Europe, SI
<i>Leersia oryzoides</i> (L.) Sw.	rice cutgrass	T/K		native, rare in BC, WI

Leymus mollis (Trin. in Spreng.) Pilger	ryegrass	W/K		native, SI
Lolium multiflorum Lam.	Italian ryegrass	L		alien, Europe
Lolium perenne L.	English ryegrass	L		alien, Europe
Muhlenbergia mexicana (L.) Trin.	wirestem muhlenbergia	L	UBC	native, in sand along railroad tracks, River Rd., Lomer 1989
Muhlenbergia uniflora (L.) Trin.	muhlenbergia	GK/L	UBC	rare in cranberry fields, Lomer 1995, native ne NA
Panicum capillare L.	old witch grass	L/K		native to e. BC
Panicum dichotomiflorum Michx.	western witch grass	L		alien, e. NA
Panicum miliaceum L.	broomcorn millet	L		alien, Asia
Phalaris arundinacea L.++	reed canary grass M			native to BC, SI, might also be introduced cultivars
Phalaris canariensis L.	canary grass	L		alien, Mediterranean
Phleum pratense L.	timothy	K		alien, Europe
Phragmites australis (Cav.) Trin. ex Steud.	reed grass	L		native, rare near Steveston
Poa annua L.	annual bluegrass	L		alien, Europe
Poa bulbosa L.	bulbous bluegrass	L		alien, Europe
Poa compressa L.++	Canada bluegrass	K/T		alien, Europe RNP
Poa pratensis L.	Junegrass	L/K		alien, Europe
Poa palustris L.	foul bluegrass	L		alien, Europe
Poa trivialis L.	rough-stalk bluegrass	L		alien Europe
Puccinellia distans (Jacq.) Parl.	European alkaligrass	UBC		native, dry marsh area, Lomer
Torreyochloa pauciflora (J. S. Presl. In C. B. Presl) Church	false manna grass	L		native
Secale cereale L.	rye	L/K		alien, Europe
Setaria glauca (L.) Beauv.	foxtail	K	RNP	alien, Europe
Setaria viridis (L.) Beauv	green foxtail	K		alien, Eurasia
Sporobolus cryptandrus (Torr.) A. Gray	sand dropseed	L.		native e. BC
Trisetum cernuum var. cernuum Trin.	nodding trisetum	L		native
Vulpia bromoides (L.) S. F. Gray vulpia		L		alien, Europe
Vulpia myuros var. myuros (L.) Gmel.	vulpia	L		alien, Europe
Polygonaceae				
Polygonum achoreum Blake	Blake's knotweed	GK/L	UBC	alien, Europe, rare, Lomer, 88
Polygonum amphibium var. emersum Michx.	water smartweed	L		alien, Europe
Polygonum aviculare L.++	common knotweed	T/M		frequent in west Richmond
Polygonum cuspidatum Seib. & Zucc.	Japanese knotweed	K		European weed, RNP
Polygonum fowleri B. L. Robins.	Fowler's knotweed	L.		alien, Europe
Polygonum hydropiper L.	marshpepper smartweed	L		native, rare in Richmond
Polygonum hydropiperoides Mich.	water-pepper	L/GK	UBC	alien, Eurasia
Polygonum lapathifolium L.	willow weed	L		native, LI, Ashlee 1923/Lomer
Polygonum minus Huds.	Asian knotweed	GK	UBC	alien, Eurasian
Polygonum persicaria L. ++	spotted lady's thumb	UBCD	UBC	alien, Eurasian, LI, Ashlee, 1923
Polygonum polystachyum (Wall.) Meisn.	Himalayan knotweed	L		alien, Eurasia, Freitag 1977
Rumex acetosella L.++	sheep sorrel	K/UBCD	UBC	alien, Eurasia, LI, Ashlee, 1923
Rumex conglomeratus Murr.	clustered dock	L		alien, Eurasia, Franko, et al. 1976
Rumex crispus L.	curled dock	K/M		alien, Eurasia, SI, SEI
Rumex maritimus L.	golden dock	L/K		native

Rumex obtusifolius L.++	broad-leaved dock	L		cosmopolitan
Rumex occidentalis S. Wats.	western dock	M		native, SI
Polypodiaceae				
Polypodium glycyrrhiza	licorice fern	Br	RNP	native
Portulacaceae				
Claytonia sibirica L.	Siberian miner's lettuce	?		native
Montia fontana L.	water chickweed	T	UBC	native, south of River Rd., ne Richmond, Taylor 1980
Montia howellii S. Wats.	Howell's montia	L		native, rare, e. of Steveston
Montia linearis (Dougl. ex Hook.) Greene	narrow-leaved montia	L		native
Portulaca oleracea L.	common purslane	L		alien, Eurasia
Potamogetonaceae				
Potamogeton crispus L.	pondweed	L		alien, Europe
Potamogeton epihydrus Raf.	ribbon-leaved pondweed	L		native
Potamogeton foliosus Raf.	close-leaved pondweed	L		native
Potamogeton pectinatus L.	fennel-leaved pondweed	L		alien, Eurasia
Primulaceae				
Dodecatheon pulchellum var. pulchellum (Raf.) Merrill	shooting star	K		native, FS
Glaux maritima var. obtusifolia? L.	sea milkwort	L		
Lysimachia punctata L.	spotted loosestrife	L.		alien, Europe
Lysimachia terrestris (L.) B.S.P.	bog loosestrife	GK	UBC	alien, ne NA, Lomer 1989
Lysimachia thyrsoiflora L.++	tufted loosestrife	T		native, NA, Eurasia
Trientalis arctica Fisch. ex. Hook.++	northern starflower	T		native, RNP
Trientalis latifolia Hook.	western starflower	L		native
Ranunculaceae				
Caltha palustris ssp. asarifolia (DC.) Hult.	marsh marigold	GK/K	UBC	native, FS
Ranunculus acris L.	meadow buttercup	L		alien, Eurasia
Ranunculus cymbalaria Pursh	shore buttercup	L		native
Ranunculus flammula L.	lesser spearwort	L		native, river shores
Ranunculus repens L.++	creeping buttercup	K		alien, Europe
Ranunculus scleratus ssp. multifidus (Nutt.) Hult.	hairy buttercup	L		native
Resedaceae				
Reseda odorata L.	mignonette	GK/L	UBC	alien, Eurasia, Lomer 1989
Rhamnaceae				
Rhamnus purshiana DC++	buckthorn	T/K		native

Rosaceae

<i>Amelanchier alnifolia</i> (Nutt.) Nutt. ++	serviceberry	T/K		native
<i>Crataegus douglasii</i> var <i>suksdorfii</i>	black hawthorn	M		native, SI
<i>Crataegus monogyna</i> Jacq. ++	hawthorn	T/K	RNP	alien, Europe, hybridizes locally with <i>C. douglasii</i>
<i>Fragaria x ananassa</i> Dcne	cultivated strawberry	F/K		alien, Europe
<i>Fragaria chiloensis</i> (L.) Duch.	coastal strawberry	K	RNP	native
<i>Fragaria virginiana</i> Dusch. ++	wild strawberry	K		native
<i>Geum macrophyllum</i> Willd. ++	large-leaved avens	T/K		native, RNP
<i>Malus fusca</i> (Raf.) Schneid. ++	western crab-apple	T/B		native, Bell, 1984, SI
<i>Malus pumila</i> Mill ++	domestic apple	T		alien Europe
= <i>M. domestica</i> Borkh				
= <i>M. sylvestris</i>				
<i>Oemleria cerasiformis</i> (T. & G. ex Hook. & Arn.) Landon	Indian plum	K		native
<i>Physocarpus capitatus</i> (Pursh.) Kuntze	ninebark	M/K	UBC	native, SI, GI
<i>Potentilla anglica</i>	cinquefoil	L		alien, Europe
<i>Potentilla anserina</i> ssp. <i>pacifica</i> (Howell) Rousi ++	common silverweed	K		native
<i>Potentilla argentea</i> L.	silvery cinquefoil	L		alien, Europe
<i>Potentilla gracilis</i> Dougl.	graceful cinquefoil	L		native
<i>Potentilla norvegica</i> L.	Norwegian cinquefoil	L		native
<i>Potentilla palustris</i> (L.) Scop.	marsh cinquefoil	K		native
<i>Potentilla recta</i> L.	erect cinquefoil	K		alien, Eurasia
<i>Prunus avium</i> (L.) L.	sweet cherry	M		alien, Eurasia, SI
<i>Prunus emarginata</i> (Dougl.) Walp.	bitter cherry	L		native
<i>Prunus lauroceraseus</i> L.	cherry laurel	K		alien, Europe, RNP
<i>Prunus serotina</i>	black cherry	L		alien, e. NA
<i>Rosa multiflora</i> L.	multiflora	L/K		alien, Europe
<i>Rosa nutkana</i> Presl.	Nootka rose	K		native
<i>Rosa rugosa</i> Thunberg. ++	rose	T/K		alien, Eurasia, naturalized
<i>Rubus allegheniensis</i> T. C. Porter	Allegheny blackberry	L		alien, e. NA
<i>Rubus chamaemorus</i> L. ++	cloudberry		T	circumboreal
<i>Rubus discolor</i> Weihe & Nees ++	Himalayan blackberry	T/K	RNP	alien, Europe,
= <i>R. procerus</i>				
= <i>R. armeniacus</i>				
<i>Rubus laciniatus</i> Willd. ++	evergreen blackberry	TK	RNP	alien, Eurasia
<i>Rubus leucodermis</i> Dougl. ex T. & G	black raspberry	J		native
<i>Rubus parviflorus</i> Nutt.	thimbleberry	K/J		BS, planted; RNP and RNSC along trail (Klink 2000)
<i>Rubus spectabilis</i> Pursh ++	salmonberry	K/T	RNP	native
<i>Rubus ursinus</i> ssp. <i>macropetalus</i> (Dougl. ex Hook) Taylor & MacBryde ++	Pacific blackberry	T		our only native blackberry, RNP
<i>Rubus vestitus</i> Weihe & Nees	European blackberry	L		alien, Europe, SI
<i>Sanguisorbia officinalis</i>	garden burnet	H/L	UBC	native, LI, Henry, 1913
<i>Sorbus acuparia</i> L.	European mountain ash	K/T	RNP	alien, Eurasia
<i>Spirea douglasii</i> var. <i>douglasii</i> Hook. ++	hardhack	K/T	RNP	native

Rubiaceae

<i>Galium aparine</i> L. ++	cleavers, bedstraw	K/T	RNP	cosmopolitan, introduced
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<i>Galium spurium</i>	False cleavers	L		alien Europe
<i>Galium trifidum</i> ssp. <i>columbianum</i> (Rydb.) Hult	small bedstraw	L		native
<i>Galium trifidum</i> ssp. <i>trifidum</i>	small bedstraw	L	UBC	native
<i>Galium trifidum</i> var. <i>pacificum</i> Wieg.	small bedstraw	K	RNP.	Native
Ruppiaceae				
<i>Ruppia maritima</i> var. <i>maritima</i> L.	ditch grass	L		native
Salicaceae				
<i>Populus alba</i> L.++	silver poplar	T/K		alien, Europe
<i>Populus tremuloides</i> Michx.++	trembling aspen	T/K		native
<i>Populus balsamifera</i> ssp. <i>trichocarpa</i> (T & G.) Brayshaw ++	black cottonwood	T/K		native, hybridizes
<i>Salix hookeriana</i> Barratt ex Hook.	Hooker's willow	M		native, SI
<i>Salix lucida</i> ssp. <i>lasiandra</i> (Benth.) E. Murray ++	Pacific willow	T/K		native
<i>Salix prolixa</i> Anderss.	Mackenzie willow	GK	UBC	native, SI, Lomer 1995
<i>Salix scouleriana</i> Barratt ex Hook	Scouler's willow	T		native, SI
<i>Salix sessilifolia</i> Nutt.	soft-leaved willow	GK	UBC	native, rare in BC SI, Lomer 1995
<i>Salix sitchensis</i> Sanson ex Bong.	Sitka willow	L		native
Salviniaceae				
<i>Azolla caroliniana</i>	mosquito fern	L/K		alien, throughout ditches
Saxifragaceae				
<i>Ribes divaricatum</i> Dougl. ssp. ssp. <i>divaricatum</i>	currant	K		native
<i>Ribes rubrum</i> L.	red currant	L		alien, Eurasia
Scrophulariaceae				
<i>Antirrhinum majus</i> L.	snapdragon	L/K		alien, Eurasia
<i>Chaenorhinum minus</i> (L.) Lange in Willk, & Landg	common dwarf snapdragon	L		alien, Eurasia, tracks
<i>Cymbalaria muralis</i> Gaertn., Mey. & Scherb.	ivy-leaved toadflax	L		alien, Eurasia
<i>Digitalis purpurea</i> L.++	foxglove	T/K		alien, Europe
<i>Gratiola neglecta</i> Torr.	American hedge-hyssop	L		native, Fraser mud shores
<i>Limosalla aquatica</i> L.	water mudwort	L		native
<i>Linaria genistifolia</i> ssp. <i>dalmatica</i> (L.) Maire & Petitmengin	Dalmation toadflax	K	RNP	alien, Europe
<i>Linaria purpurea</i> (L.) P. Mill.	purple toadflax	K		
<i>Linaria vulgaris</i> P. Mill.	common toadflax	GK	UBC	alien, Europe, LI, Ashlee 1924
<i>Lindernia anagallidea</i> (Michx.) Pennell var. <i>anagallidea</i>	false pimpernel	GK	UBC	native, Lomer 1995 rare in BC
var. <i>dubia</i>	"	L		native, Lomer 2001
<i>Mimulus guttatus</i> Fisch. ex DC.	yellow monkey flower	K	UBC	native, near Queensborough

Parentucellia viscosa (L.) Car. In Parl & Car.	yellow parentucellia	K	photo	alien, Europe
Verbascum thapsus L.	common mullein	K		alien, Eurasia
Veronica anagallis-aquatica L.	blue water-speedwell	K	RNP	alien, Europe
Veronica arvensis L	wall speedwell	L		alien, Europe
Veronica beccabunga ssp. americana (Raf.) Sellers	American brooklime	L		native
Veronica filiformis Sm.	slender speedwell	GK/L	UBC	alien, Asia, Lomer 1994
Veronica peregrina var. peregrina var. xalapensis (H. ?B. K.) St. John & Warren	purslane speedwell purslane speedwell	GK/L L	UBC	alien, e. NA, Lomer 1995 native
Veronica persica Poir.	bird's eye speedwell	L/GK	UBC	alien, Europe, rare Lomer 1994
Veronica serpyllifolia L. var. serpyllifolia var. humifusa	thyme-leaved speedwell thyme-leaved speedwell	L/K L		alien, Europe native

Solanaceae

Physalis alkekengi L.	Chinese lantern	L	UBC	alien, Eurasia, Lomer 1990
Solanum americanum var. nodiflorum (N. J. Jacq.) Edmonds in Stearn	black nightshade	L		alien, s. US
Solanum dulcamara L.	nightshade	K/M	RNP	alien, Eurasia
Solanum rostratum Dunal	buffalo bur	L		alien, central US, rare weed
Solanum sarrachoides Sentner in Martius	hairy nightshade	L		alien, SA

Sparganiaceae

Sparganium emersum ssp. emersum Rehm.	bur-reed	L.		native
Sparganium eurycarpum Engelm.	broad-fruited bur-reed	S	UBCD	native, Steveston, July 13, 1915, ditch UBC 8127

Thymaleaceae

Daphne laureola L.	spurge laurel	L/K		alien, Eurasia, 7 Rd.
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Typhaceae

Typha angustifolia L	narrow-leaved cattail	L		Brayshaw (1981) indicates that forma ambigua is often mistaken for this. T. a. has not been confirmed in BC
Typha latifolia L.++	wide-leaved cattail	L/K/T		native

Urticaceae

Urtica dioica ssp. gracilis (Ait.) Seland	stinging nettle	L/K		native
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Violaceae

Viola lanceolata L.		GK	UBC	alien, e. NA, Johnson's
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<i>Viola langsdorfii</i> (Regel) Fisch in DC	Alaska violet	GK	UBC	blueberry farm, spreading freely, Eastham 1939 native, dirt track through peat bog, Lomer 1992
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Zannichelliaceae

<i>Zannichellia palustris</i> L.	horned pondweed	L		native
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Zosteraceae

<i>Zostera marina</i> L.	eel grass	L/K		
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--The end--

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SOURCES

- Benson, Don. 2001. Personal Communication. Email correspondence.
- British Columbia Conservation Data Centre. 1999. Rare Vascular Plant Occurrences, Municipality of Richmond, CDC data sheets.
- British Columbia Conservation Data Centre. 1999. Data sheets for *Bidens amplissima*. BCCDC, Victoria.
- British Columbia Conservation Data Centre. 2000. Data sheets for *Caltha palustris*. BCCDC, Victoria.
- British Columbia Conservation Data Centre. 2001. Data sheets for *Lupinus rivularis*. BCCDC, Victoria
- Cairns, A. n.d. *Natural History in Richmond*. Richmond Nature Park Committee, Richmond
- Ceska, Adolph. 1999. Personal communication (email).
- Chow, Sandra. 1999. Native plants of Richmond. City of Richmond, unpublished list.
- Ingram, Jocie. 2001. Personal communication. Email.
- Kennedy, H., F. Ganders and Frank Lomer. In prep. *Flora of the Fraser Valley*. Unpublished manuscript.
- Klinkenberg, B. and R. Klinkenberg. 2001. *COSEWIC status report on Vancouver Island Beggarticks*. Report prepared for the Committee on the Status of Endangered Wildlife in Canada.
- Klinkenberg, B. and R. Klinkenberg. 2001. *Preliminary COSEWIC status report on Riverbank Lupine*. Report prepared for the Committee on the Status of Endangered Wildlife in Canada.
- Lomer, 1995. Introduced bog plants around Vancouver, BC. BEN 104, July 2, 1995.
- Lomer, Frank. 2001. Field notes for Richmond, observations from several years.
- Moore, Huber and Terry Taylor. 1992. Plants Observed on Steveston (Shady) Island. Richmond Nature Park Society.
- Moody, A. I. 1984. *The Environment and Natural Resources of Richmond*. AIM Consultants, City of Richmond.
- Runyun, C. S. and C. Tombs. 1981. The Richmond Natural Areas Map. Richmond: City of Richmond.
- Runyun and Jamieson. 1990. Bath Slough: Enhancement of an Urban Slough Habitat in Richmond BC. IN: *Landscape approaches to wildlife and ecosystem management in Canada*. Polyscience Publications, Inc., Montreal.

- Slack, Terry and Terry Taylor. 1993. Plants observed in the Cora Brown Area, Sea Island.
- Straley, Gerald. 1989. *The Trees of Vancouver*. UBC Press, Vancouver.
- Taylor, T. n.d. Common lichens of the Richmond Nature Park. Richmond: Richmond Nature Park Committee.
- Taylor, T. n.d. Ferns of the Richmond Nature Park. Richmond: Richmond Nature Park Committee
- Taylor, T. n.d. Mosses of the Richmond Nature Park. Richmond: Richmond Nature Park Committee
- Taylor, T. 1983. Flora of the Richmond Nature Park. Richmond: Richmond Nature Park Committee.
- Taylor, T. 1994. Plants observed on a vegetation survey at Finn Slough and Gilmore Island, Richmond, BC. Finn Slough Heritage and Wetland Society. Web publication:
<http://www.angelfire.com/bc/finnslough/FSPLANTS.html>
- Taylor, Terry. 1997. Plants observed on Iona Island, north and east of the Waste Water Treatment Plant, July 17, 1997.
- Terry Taylor, Klinkenberg, R. and B. Klinkenberg. 2001. *Richmond Nature Park: Checklist of the Vascular Plants*. Richmond: Richmond Nature Park Society, Richmond.
- UBC Herbarium. 2000. Collection Records for Richmond, BC (provided by Helen Kennedy, Honorary Curator, UBC Herbarium).
- Watmough, D. 1982. *The Natural History of Shady Island*. The Richmond Nature Park Committee.

Species reported but unlikely:

Vaccinium myrtillus L.	bog blueberry	F	UBC	reported by Franko et al., 1976 railroad track, near No. 5
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Species reported but since redetermined:

Lupinus rivularis	Sand dredgings	L	UBC	reported by Lomer, but he has since redetermined as L. littoralis
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