

APPENDIX H - SIGNIFICANT PLANT LIST FOR WELLINGTON COUNTY

Scientific Name (FOIBIS) <sup>1</sup>	Common Name	OPL CODE <sup>2</sup>	GRank <sup>3</sup>	SRank <sup>4</sup>	MNR <sup>5</sup>	COSEWIC <sup>6</sup>	WC <sup>7</sup>	Sources <sup>8</sup>
<i>Acer nigrum</i>	Black Maple	ACESANI	G5Q	S4?			R-A	2, 11, 14, 24, 25, 55, 67, 84, 97, 110
<i>Adlumia fungosa</i>	Climbing Fumitory	ADLFUNG	G4	S4			R-A	
<i>Agrostis perennans</i>	Perennial Bentgrass	AGRPERE	G5	S5			R-C	
<i>Alisma gramineum</i>	Narrow-leaf Water-plantain	ALIGRAM	G5	S3S4			R-A	
<i>Amelanchier stolonifera</i>	Running Serviceberry	AMESTOL	G5	S4?			R-C	
<i>Amerorchis rotundifolia</i>	Round-leaved Orchis	AMEROTU	G5	S4S5			R-A	
<i>Amphicarpaea bracteata</i>	Hog-peanut	AMPBRAC	G5	S5			R-A	2
<i>Andromeda polifolia</i> var. <i>glaucophylla</i>	Bog Rosemary	ANDPOGL	G5T5	S5			R-C	
<i>Andropogon virginicus</i> **	Broom-sedge	ANDVIRG	G5	S4			R-A	
<i>Arabis hirsuta</i> var. <i>pyncocarpa</i>	Hairy Rock Cress	ARAHIPY	G5T5	S5			R-A	
<i>Arceuthobium pusillum</i>	Dwarf Mistletoe	ARCPUSI	G5	S5			R-A	
<i>Arctostaphylos uva-ursi</i>	Bearberry	ARCUVAU	G5	S5			R-A	
<i>Arethusa bulbosa</i>	Dragon's Mouth	AREBULB	G4	S4			R-A	
<i>Asclepias exaltata</i>	Poke Milkweed	ASCEXAL	G5	S4			R-A	
<i>Asclepias tuberosa</i>	Butterfly Milkweed	ASCTUBE	G5	S4			R-A	
<i>Asplenium platyneuron</i>	Ebony Spleenwort	ASPPLAT	G5	S4			R-A	
<i>Asplenium rhizophyllum</i>	Walking-fern	ASPRHIZ	G5	S4			R-A	
<i>Asplenium trichomanes</i> ssp. <i>quadrivalens</i>	Maidenhair Spleenwort	ASPTRQU	G5	S5			R-A	
<i>Asplenium trichomanes-ramosum</i>	Green Spleenwort	ASPTRIC	G4	S4			R-A	
<i>Astragalus canadensis</i>	Canadian Milkvetch	ASTCANA	G5	S4			R-A	84
<i>Aureolaria flava</i>	Yellow False-foxglove	AURFLAV	G5	S3			R-A	
<i>Betula pumila</i>	Swamp Birch	BETPUMI	G5	S5			R-C	
<i>Botrychium dissectum</i>	Cutleaf Grape-fern	BOTDISS	G5	S5			R-A	
<i>Botrychium matricariifolium</i>	Daisy-leaf Moonwort	BOTMATR	G5	S4S5			R-A	
<i>Botrychium multifidum</i>	Leathery Grape-fern	BOTMULT	G5	S5			R-A	
<i>Botrychium oneidense</i>	Blunt-lobe Grape-fern	BOTONEI	G4	S3			R-A	
<i>Botrychium rugulosum</i>	Rugulose Grapefern	BOTRUGU	G3	S2			R-C	
<i>Botrychium simplex</i>	Least Moonwort	BOTSIMP	G5	S4?			R-A	
<i>Brasenia schreberi</i>	Watershield	BRASCHR	G5	S5			R-A	
<i>Bromus kalmii</i>	Wild Chess	BROKALM	G5	S4			R-C	
<i>Bromus pubescens</i>	Canada Brome	BROPUBE	G5Q	S4			R-A	
<i>Cakile edentula</i> **	American Sea-rocket	CAKEDEN	G5T	S4			R-A	
<i>Calopogon tuberosus</i>	Tuberose Grass-pink	CALTUBE	G5	S4S5			R-C	
<i>Calypso bulbosa</i> **	Calypso	CALBULB	G5	S4S5			R-A	
<i>Calystegia spithamea</i> ssp. <i>spithamea</i>	Low Bindweed	CALSPSP	G4G5T4T5	S4S5			R-C	
<i>Campanula rotundifolia</i>	American Harebell	CAMROTU	G5	S5			R-C	
<i>Campanulastrum americanum</i>	Tall Bellflower	CAMAMER	G5	S4			R-A	
<i>Cardamine bulbosa</i>	Bulbous Bitter-cress	CARBULB	G5	S4			R-C	
<i>Cardamine douglassii</i>	Purple Cress	CARDOUG	G5	S4			R-A	
<i>Cardamine pratensis</i> var. <i>angustifolia</i>	Cuckoo Flower	CARPRAN	G5T5	S5			R-C	2
<i>Carex atherodes</i>	Awned Sedge	CARATHE	G5	S4S5			R-A	2, 41, 84, 101

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<i>Carex backii</i>	Rocky Mountain Sedge	CARBACK	G4	S4S5			R-C	
<i>Carex brevior</i>	Fescue Sedge	CARBREV	G5?	S4S5			R-C	
<i>Carex careyana</i>	Carey's Sedge	CARCARE	G5	S2			R-A	
<i>Carex castanea</i>	Chestnut-colored Sedge	CARCAST	G5	S5			R-C	
<i>Carex chordorrhiza</i>	Creeping Sedge	CARCHOR	G5	S5			R-A	
<i>Carex crawfordii</i>	Crawford Sedge	CARCRAW	G5	S5			R-A	
<i>Carex cryptolepis</i>	Northeastern Sedge	CARCRYP	G4	S5			R-A	
<i>Carex echinata ssp. echinata</i>	Little Prickly Sedge	CARECHI	G5T5	S5			R-C	
<i>Carex emoryi</i>	Emory's Sedge	CAREMOR	G5	S3			R-C	
<i>Carex exilis</i>	Coast Sedge	CAREXIL	G5	S5			R-A	
<i>Carex formosa</i>	Handsome Sedge	CARFORM	G4	S3S4			R-A	
<i>Carex garberi</i>	Elk Sedge	CARGARB	G4	S4			R-A	
<i>Carex gracilescens</i>	Slender Sedge	CARGRAL	G5?	S3			R-B	65, 97
<i>Carex gynocrates</i>	Northern Bog Sedge	CARGYNO	G5	S5			R-A	
<i>Carex jamesii</i>	Nebraska Sedge	CARJAME	G5	S3			R-A	11, 84
<i>Carex laxiculmis var. copulata</i>	Spreading Sedge	CARXCOP	G5	S4			R-A	
<i>Carex leptoneuria</i>	Finely-nerved Sedge	CARLEPN	G4	S5			R-C	24
<i>Carex livida</i>	Livid Sedge	CARLIVI	G5	S5			R-C	
<i>Carex lupulina</i>	Hop Sedge	CARLUPU	G5	S5			R-A	1, 2, 11, 17, 31, 33, 84, 86, 91
<i>Carex oligosperma</i>	Few-seeded Sedge	CAROLIG	G4	S4			R-A	
<i>Carex pallescens</i>	Pale Sedge	CARPALL	G5	S5			R-A	
<i>Carex pauciflora</i>	Few-flowered Sedge	CARPAUC	G5	S5			R-A	
<i>Carex richardsonii</i>	Richardson Sedge	CARRICH	G4	S4?			R-C	
<i>Carex sartwellii</i>	Sartwell's Sedge	CARSART	G4	S4			R-A	
<i>Carex schweinitzii</i>	Schweinitz's Sedge	CARSCHW	G3	S3			R-B, R-C	2
<i>Carex sterilis</i>	Sterile Sedge	CARSTER	G4	S4			R-A	
<i>Carex sychnocephala</i>	Many-headed Sedge	CARSYCH	G4	S4			R-A	84
<i>Carex tenuiflora</i>	Sparse-flowered Sedge	CARTENU	G5	S5			R-A	
<i>Carex tetanica</i>	Rigid Sedge	CARTETA	G4G5	S3			R-C	
<i>Carex trichocarpa</i>	Hairy-fruited Sedge	CARTRIC	G4	S3			R-A	
<i>Carex vaginata</i>	Sheathed Sedge	CARVAGI	G5	S5			R-C	
<i>Carex woodii</i>	Pretty Sedge	CARWOOD	G4Q	S4			R-A	11, 31, 84
<i>Carya ovata var. ovata</i>	Shagbark Hickory	CAROVAT	G5	S5			R-A	2, 11, 25, 84, 97,
<i>Castanea dentata</i>	American Chestnut	CASDENT	G4	S3		END	R-A	
<i>Ceanothus americanus</i>	New Jersey Tea	CEAAMER	G5	S4			R-C	
<i>Celtis occidentalis</i>	Common Hackberry	CELOCCI	G5	S4			R-C	
<i>Cephalanthus occidentalis</i>	Common Buttonbush	CEPOCCI	G5	S5			R-A	11, 86
<i>Chamerion angustifolium ssp. angustifolium*</i>	Fireweed	EPIANGU	G5	S5			R-A	2
<i>Chimaphila umbellata ssp. cisatlantica**</i>	Common Wintergreen	CHIUMCI	G5T5	S5			R-A	
<i>Chrysosplenium americanum</i>	American Golden-saxifrage	CHRAMER	G5	S5			R-A	2, 86
<i>Clematis occidentalis var. occidentalis</i>	Purple Clematis	CLEOCCI	G5	S4S5			R-A	
<i>Coeloglossum viride var. virescens**</i>	Long-bract Green Orchis	COEVIVI	G5T5	S4			R-A	
<i>Collinsonia canadensis</i>	Canada Horse-balm	COLCANA	G5	S4			R-A	
<i>Conioselinum chinense</i>	Hemlock Parsley	CONCHIN	G5	S3			R-A	

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<i>Corallorhiza maculata</i>	Spotted Coralroot	CORMACU	G5	S5			R-A	
<i>Corallorhiza striata</i>	Striped Coralroot	CORSTRI	G5	S4			R-A	
<i>Cornus rugosa</i>	Round-leaved Dogwood	CORRUGO	G5	S5			R-A	1, 2, 17, 35, 106
<i>Corydalis aurea ssp. aurea*</i>	Golden Corydalis	CORAURE	G5	S5			R-A	
<i>Cryptogramma stelleri</i>	Fragile Rockbrake	CRYSTEL	G5	S4S5			R-A	
<i>Cuscuta pentagona var. pentagona*</i>	Field Dodder	CUSCAMP	G5	S2			R-A	
<i>Cypripedium acaule</i>	Pink Lady's-slipper	CYPACAU	G5	S5			R-A	
<i>Cypripedium arietinum</i>	Ram's-head Lady's-slipper	CYPARIE	G3	S3			R-A	
<i>Dalibarda repens</i>	Robin Runaway	DALREPE	G5	S4S5			R-A	
<i>Dasiphora floribunda*</i>	Shrubby Cinquefoil	POTFRFL	G5	S5			R-A	
<i>Decodon verticillatus</i>	Hairy Swamp Loosestife	DECVERT	G5	S5			R-A	
<i>Dennstaedtia punctilobula</i>	Hay-scented Fern	DENPUNC	G5	S5			R-A	
<i>Dichanthelium villosissimum var. villosissimum</i>	White-hair Witchgrass	PANVILL	G5	S3			R-A	
<i>Diplazium pycnocarpon</i>	Glade Fern	DIPPYCN	G5	S4			R-A	
<i>Dracocephalum parviflorum</i>	American Dragonhead	DRAPARV	G5	S5			R-C	
<i>Drosera linearis</i>	Slender-leaved Sundew	DROLINE	G4	S4			R-A	
<i>Dryopteris clintoniana</i>	Clinton Wood Fern	DRYCLIN	G5	S4			R-A	84
<i>Dryopteris filix-mas</i>	Male Fern	DRYFILI	G5	S4			R-A	
<i>Dryopteris goldiana</i>	Goldie's Wood Fern	DRYGOLD	G4	S4			R-A	
<i>Eleocharis intermedia</i>	Matted Spikerush	ELEINTE	G5	S4			R-A	
<i>Eleocharis robbinsii</i>	Robbins Spikerush	ELERobb	G4G5	S4			R-A	
<i>Elodea nuttallii</i>	Nuttall Waterweed	ELONUTT	G5	S3			R-C	
<i>Elymus canadensis</i>	Canada Wild-rye	ELYCANA	G5	S4S5			R-A	
<i>Elymus riparius</i>	River-bank Wild-rye	ELYRIPA	G5	S4?			R-A	
<i>Elymus villosus</i>	Slender Wild-rye	ELYVILL	G5	S4			R-A	
<i>Epigaea repens</i>	Trailing Arbutus	EPIREPE	G5	S5			R-A	
<i>Epilobium strictum</i>	Downy Willow-herb	EPISTRI	G5?	S5			R-A	
<i>Equisetum laevigatum</i>	Smooth Scouring-rush	EQULAEV	G5	S4			R-A	38, 46, 47
<i>Equisetum palustre</i>	Marsh Horsetail	EQUPALU	G5	S5			R-A	1, 17
<i>Equisetum pratense</i>	Meadow Horsetail	EQUPRAT	G5	S5			R-A	34, 109
<i>Equisetum sylvaticum</i>	Woodland Horsetail	EQUYSYL	G5	S5			R-A	
<i>Equisetum variegatum ssp. variegatum</i>	Variegated Horsetail	EQUVAVA	G5T	S5			R-A	91
<i>Eragrostis frankii</i>	Frank's Love-grass	ERAFRAN	G5	S4			R-C	
<i>Erigenia bulbosa</i>	Harbinger-of-spring	ERIBULB	G5	S3			R-A	
<i>Eriophorum gracile</i>	Slender Cotton-grass	ERIGRAC	G5	S5			R-A	
<i>Eriophorum tenellum</i>	Rough Cotton-grass	ERITENE	G5	S5			R-A	
<i>Erythronium albidum</i>	White Trout Lily	ERYALBI	G5	S4			R-A	
<i>Euonymus atropurpurea var. atropurpurea</i>	Burning Bush	EUOATAT	G5T?	S3			R-A	
<i>Eupatorium purpureum var. purpureum</i>	Sweet Joe-pye-weed	EUPPUPU	G5T?	S3			R-A	65
<i>Festuca occidentalis</i>	Western Fescue	FESOCCI	G5	S4?			R-C	
<i>Floerkea proserpinacoides</i>	False Mermaid-weed	FLOPROS	G5	S4	NAR	NAR	R-A	
<i>Galearis spectabilis</i>	Showy Orchis	GALSPET	G5	S4			R-C	
<i>Galium labradoricum</i>	Bog Bedstraw	GALLABR	G5	S5			R-C	
<i>Gentiana rubricaulis</i>	Great Lakes Gentian	GENRUBR	G4?	S4			R-A	
<i>Gentianopsis crinita</i>	Fringed Gentian	GENCRIN	G4	S5			R-A	

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<i>Geum laciniatum</i>	Rough Avens	GEULACI	G5	S4			R-A	56
<i>Glyceria borealis</i>	Small Floating Manna-grass	GLYBORE	G5	S5			R-C	84, 86, 101
<i>Goodyera oblongifolia</i>	Giant Rattlesnake-plantain	GOOOBLO	G5?	S4			R-A	
<i>Halenia deflexa ssp. deflexa</i>	Spurred Gentian	HALDEDE	G5	S5			R-A	
<i>Hamamelis virginiana</i>	American Witch-hazel	HAMVIRG	G5	S5			R-C	
<i>Helenium autumnale</i>	Common Sneezeweed	HELAUTU	G5	S5			R-A	
<i>Helianthus decapetalus</i>	Thin-leaved Sunflower	HELDECA	G5	S5			R-C	
<i>Hieracium gronovii</i>	Hairy Hawkweed	HIEGRON	G5	S4			R-A	
<i>Hierochloe odorata ssp. odorata</i>	Holy Grass	HIEODOR	G4G5	S4			R-A	
<i>Hydrophyllum canadense</i>	Canada Waterleaf	HYDCANY	G5	S4			R-A	67, 84
<i>Hypericum ascyron</i>	Great St. John's-wort	HYPASCY	G4	S4			R-C	
<i>Hypericum boreale*</i>	Northern St. John's-wort	HYPMUBO	G5	S5			R-C	
<i>Hypericum ellipticum</i>	Pale St. John's-wort	HYPELLI	G5	S5			R-C	
<i>Hypericum prolificum</i>	Shrubby St. John's-wort	HYPPROL	G5	S2			R-A	
<i>Impatiens pallida</i>	Pale Jewel-weed	IMPPELL	G5	S5			R-A	
<i>Jeffersonia diphylla</i>	Twinleaf	JEFDIPH	G5	S4			R-A	
<i>Juglans cinerea</i>	Butternut	JUGCINE	G3G4	S3	END	END	R-B	84, 89, 101
<i>Juncus acuminatus</i>	Sharp-fruit Rush	JUNACUM	G5	S3			R-A	
<i>Juncus pelocarpus</i>	Brown-fruited Rush	JUNPELO	G5	S5			R-A	
<i>Juniperus horizontalis</i>	Creeping Juniper	JUNHORI	G5	S5			R-A	32
<i>Kalmia polifolia</i>	Pale Laurel	KALPOLI	G5	S5			R-C	
<i>Koeleria macrantha</i>	June Grass	KOEMACR	G5	S2			R-A	
<i>Lespedeza hirta</i>	Hairy Bushclover	LESHIRT	G5	S4			R-A	
<i>Lilium michiganense</i>	Michigan Lily	LILMICH	G5	S5			R-A	11, 34
<i>Lilium philadelphicum</i>	Wood Lily	LILPHIL	G5	S5			R-A	56
<i>Linaria canadensis</i>	Toadflax	LINCANA	G4G5	S1			R-A	56
<i>Lindera benzoin</i>	Spicebush	LINBENZ	G5	S5			R-A	
<i>Listera convallarioides</i>	Broad-leaved Twayblade	LISCONV	G5	S4			R-A	
<i>Listera cordata</i>	Heartleaf Twayblade	LISCORD	G5	S5?			R-A	
<i>Lithospermum latifolium</i>	Broad-leaved Gromwell	LITLATI	G4	S3			R-A	
<i>Lobelia kalmii</i>	Kalm's Lobelia	LOBKALM	G5	S5			R-C	
<i>Lobelia spicata</i>	Pale-spiked Lobelia	LOBSPIC	G5	S4			R-A	
<i>Lonicera villosa</i>	Mountain Fly-honeysuckle	LONVILL	G5	S5			R-A	
<i>Lupinus perennis ssp. perennis</i>	Wild Lupine	LUPPEPE	G5T4?	S3			R-A	
<i>Lycopodiella inundata</i>	Northern Bog Clubmoss	LYCINUN	G5	S5			R-A	
<i>Lycopodium clavatum</i>	Running Pine	LYCCLAV	G5	S5			R-A	
<i>Lycopodium complanatum</i>	Trailing Clubmoss	DIPCOMP	G5	S5			R-A	
<i>Lycopodium digitatum</i>	Fan Clubmoss	DIPDIGI	G5	S5			R-A	
<i>Lycopodium tristachyum</i>	Deep-root Clubmoss	DIPTRIS	G5	S5			R-A	
<i>Malaxis brachypoda</i>	White Adder's Mouth	MALMOBR	G4T	S4			R-A	
<i>Malaxis unifolia</i>	Green Adder's Mouth	MALUNIF	G5	S4S5			R-A	
<i>Melica smithii</i>	Smith Melic Grass	MELSMIT	G4	S4?			R-C	
<i>Menispermum canadense</i>	Canada Moonseed	MENCANA	G5	S4			R-A	84
<i>Menyanthes trifoliata</i>	Bog Buckbean	MENTRIF	G5	S5			R-A	38, 86
<i>Monarda didyma</i>	Oswego Tea	MONDIDY	G5	S3			R-A	

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<i>Moneses uniflora</i>	One-flower Wintergreen	MONUNIF	G5	S5			R-C	
<i>Muhlenbergia sylvatica</i> var. <i>sylvatica</i>	Woodland Satin Grass	MUHSYSY	G5T?	S2			R-A	
<i>Myosotis verna</i>	Spring Forget-me-not	MYOVERN	G5	S4?			R-A	
<i>Myrica gale</i>	Sweet Gale	MYRGALE	G5	S5			R-A	
<i>Najas flexilis</i>	Slender Naiad	NAJFLEX	G5	S5			R-A	11
<i>Najas gracillima</i>	Thread-like Naiad	NAJGRAC	G5?	S2			R-C	
<i>Nuphar advena</i>	Yellow Pond-lily	NUPADVE	G5T5	S3			R-C	
<i>Ophioglossum pusillum</i>	Adder's Tongue Fern	OPHPUSI	G5	S4S5			R-A	
<i>Osmorhiza berterii</i>	Sweet-cicely	OSMBERT	G5	S4			R-A	
<i>Osmunda claytoniana</i>	Interrupted Fern	OSMCLAN	G5	S5			R-A	2
<i>Panax quinquefolius</i>	American Ginseng	PANQUIN	G4	S3		END	R-A	
<i>Panax trifolius</i>	Dwarf Ginseng	PANTRIF	G5	S4			R-A	
<i>Panicum philadelphicum</i>	Tuckerman's Panicgrass (Philadelphia Panic Grass)	PANPHIL	G3G5	S4			R-A, R-C	
<i>Panicum rigidulum</i>	Redtop Panic Grass	PANRIGI	G5	S2S3			R-A	
<i>Parnassia glauca</i>	Carolina Grass-of-parnassus	PARGLAU	G5	S5			R-A	
<i>Pellaea glabella</i> ssp. <i>glabella</i>	Smooth Cliff-brake	PELGLGL	G5	S4			R-A	
<i>Phlox subulata</i> ssp. <i>subulata</i>	Pink Phlox	PHLOSUS	G6	S1?			R-A	
<i>Pilea pumila</i>	Canada Clearweed	PILPUMI	G5	S5			R-A	2, 11, 84, 86
<i>Pinguicula vulgaris</i>	Butterwort	PINVULG	G5	S5			R-A	
<i>Platanthera clavellata</i>	Small Green Woodland Orchid	PLACLAV	G5	S4S5			R-C	
<i>Platanthera dilatata</i>	Tall White Bog Orchid	PLADILA	G5	S5			R-A	
<i>Platanthera lacera</i>	Green-fringed Orchid	PLALACE	G5	S4S5			R-A	
<i>Platanthera macrophylla</i>	Goldie's Round-leaved Orchid	PLAMACR	G5?T4	S2			R-A	
<i>Platanthera obtusata</i>	Blunt-leaved Orchid	PLAOBTU	G5	S5			R-A	
<i>Platanthera orbiculata</i>	Large Round-leaved Orchid	PLAORBI	G5?	S4S5			R-A	
<i>Platanthera psycodes</i>	Small Purple-fringed Orchid	PLAPSYC	G5	S5			R-C	
<i>Pogonia ophioglossoides</i>	Rose Pogonia	POGOPHI	G5	S4S5			R-A	
<i>Polygala paucifolia</i>	Gay-wing Milkwort	POLPAUC	G5	S5			R-A	2, 89
<i>Polygala senega</i>	Seneca Snakeroot	POLSENE	G4G5	S4			R-A	
<i>Polygonatum biflorum</i>	Giant Solomon's Seal	POLBIFL	G5	S4			R-A	56
<i>Polygonum erectum</i>	Erect Knotweed	POLEREC	G5	S1			R-C	
<i>Polymnia canadensis</i>	White-flower Leafcup	POLCANA	G5	S4			R-A	
<i>Polypodium virginianum</i>	Rock Polypody	POLVIRG	G5	S5			R-A	
<i>Potamogeton alpinus</i>	Northern Pondweed	POTALPI	G5	S5			R-C	
<i>Potamogeton amplifolius</i>	Large-leaf Pondweed	POTAMPL	G5	S5			R-C	
<i>Potamogeton epihydrus</i>	Ribbon-leaf Pondweed	POTEPIH	G5	S4S5			R-C	11
<i>Potamogeton hillii</i>	Hill's Pondweed	POTHILL	G3	S2	THR	SC	R-A	
<i>Potamogeton illinoensis</i>	Illinois Pondweed	POTILLI	G5	S4			R-C	
<i>Potamogeton richardsonii</i>	Redheadgrass	POTRICH	G5	S5			R-C	
<i>Primula mistassinica</i>	Bird's-eye Primrose	PRIMIST	G5	S4			R-A	
<i>Prunus americana</i>	American Plum	PRUAMER	G5	S4			R-A	11
<i>Prunus pumila</i> var. <i>pumila</i>	Sand Cherry	PRUPUPU	G5	S4S5			R-A	
<i>Pyrola chlorantha</i>	Greenish-flowered Wintergreen	PYRCHLO	G5	S4S5			R-A	

Scientific Name (FOIBIS) <sup>1</sup>	Common Name	OPL CODE <sup>2</sup>	GRank <sup>3</sup>	SRank <sup>4</sup>	MNR <sup>5</sup>	COSEWIC <sup>6</sup>	WC <sup>7</sup>	Sources <sup>8</sup>
<i>Ranunculus fascicularis</i>	Early Buttercup	RANFASC	G5	S4			R-A	
<i>Ranunculus flabellaris</i>	Yellow Water-crowfoot	RANFLAB	G5	S4?			R-A	11
<i>Ranunculus gmelinii</i>	Small Yellow Water Buttercup	RANGMEL	G5	S5			R-A	
<i>Rhus aromatica</i>	Fragrant Sumac	RHUAROM	G5	S5			R-A	
<i>Rhynchospora capillacea</i>	Capillary Beakrush	RHYCAPI	G4G5	S4?			R-C	
<i>Ribes hirtellum</i>	Smooth Gooseberry	RIBHIRT	G5	S5			R-A	
<i>Rubus canadensis</i>	Smooth Blackberry	RUBCANA	G5	S4?			R-C	
<i>Rudbeckia laciniata</i>	Cut-leaved Coneflower	RUDLACI	G5	S5			R-C	
<i>Sagittaria cristata</i> *	Crested Arrowhead	SAGGRCR	G4?	S3			R-A	
<i>Sagittaria cuneata</i>	Wapatum Arrowhead	SAGCUNE	G5	S4?			R-A	11, 88
<i>Sagittaria graminea</i> var. <i>graminea</i>	Grassleaf Arrowhead	SAGGRGR	G5T5	S4S5			R-C	
<i>Sagittaria rigida</i>	Sessile-fruited Arrowhead	SAGRIGI	G5	S4?			R-C	
<i>Salix cordata</i>	Sand Dune Willow	SALCORD	G5	S4S5			R-C	
<i>Saxifraga virginensis</i>	Early Saxifrage	SAXVIRG	G5	S5			R-A	
<i>Scheuchzeria palustris</i>	Pod Grass	SCHPALU	G5	S4S5			R-A	
<i>Schizachyrium scoparium</i>	Little Bluestem	SCHSCOP	G5	S4			R-C	
<i>Schoenoplectus smithii</i> *	Smith's Club-rush	SCISMIT	G5?	S2?			R-D	20, 84
<i>Schoenoplectus subterminalis</i> *	Swaying Club-rush	SCISUBT	G4G5	S4			R-A	
<i>Shepherdia canadensis</i>	Canada Buffalo-berry	SHECANA	G5	S5			R-A	
<i>Sisyrinchium mucronatum</i>	Michaux Blue-eyed-grass	SISMUCR	G5	S4S5			R-C	
<i>Solidago arguta</i> var. <i>arguta</i>	Sharp-leaved Goldenrod	SOLARAR	G5T4T5	S3			R-A	
<i>Solidago bicolor</i>	White Goldenrod	SOLBICO	G5	S4?			R-C	
<i>Solidago patula</i>	Rough-leaved Goldenrod	SOLPATU	G5	S5			R-A	2, 86, 91
<i>Solidago squarrosa</i>	Squarrose Goldenrod	SOLSQUA	G4?	S5			R-A	
<i>Sorbus americana</i>	American Mountain-ash	SORAMER	G5	S5			R-A	14
<i>Sparganium angustifolium</i>	Many-stalked Burreed	SPAANGU	G5	S4?			R-C	
<i>Spartina pectinata</i>	Fresh Water Cordgrass	SPAPECT	G5	S4			R-C	
<i>Spiraea tomentosa</i>	Hardhack Spiraea	SPITOME	G5	S4S5			R-A	
<i>Spiranthes casei</i>	Case's Ladies'-tresses	SPICASE	G4	S4			R-A	
<i>Spiranthes lucida</i>	Shining Ladies'-tresses	SPILUCI	G5	S4			R-A	
<i>Spiranthes magnicamporum</i>	Great Plains Ladies'-tresses	SPIMAGN	G4	S3			R-A	
<i>Spiranthes romanzoffiana</i>	Hooded Ladies'-tresses	SPIROMA	G5	S5			R-A	
<i>Sporobolus cryptandrus</i>	Sand Dropseed	SPOCRYP	G5	S4			R-A	84
<i>Sporobolus neglectus</i>	Small Dropseed	SPONEGL	G5	S4			R-C	110
<i>Sporobolus vaginiflorus</i>	Sheathed Dropseed	SPOVAGI	G5	S4			R-A	
<i>Stellaria borealis</i> ssp. <i>borealis</i>	Northern Chickweed	STEBOBO	G5T?	S5			R-A	
<i>Symphyotrichum cordifolium</i> *	Heart-leaved Aster	ASTCORD	G5	S5			R-A	2, 11, 54, 66, 84, 86, 110
<i>Symphyotrichum ontarione</i> *	Ontario Aster	ASTONON	G5	S4			R-A	
<i>Symphyotrichum oolentangiense</i> var. <i>oolentangiense</i> *	Sky-blue Aster	ASTOOLE	G5	S4			R-D	84

Scientific Name (FOIBIS) <sup>1</sup>	Common Name	OPL CODE <sup>2</sup>	GRank <sup>3</sup>	SRank <sup>4</sup>	MNR <sup>5</sup>	COSEWIC <sup>6</sup>	WC <sup>7</sup>	Sources <sup>8</sup>
<i>Symplocarpus foetidus</i>	Skunk Cabbage	SYMFOET	G5	S5			R-A	11, 18, 20, 80
<i>Taenidia integerrima</i>	Yellow Pimpernell	TAEINTE	G5	S4			R-C	
<i>Thalictrum thalictroides</i>	Rue-anemone	THATHAL	G5	S3			R-A	
<i>Thaspium barbinode</i>	Hairy-jointed Meadow Parsnip	THABARB	G5	S1			R-C	
<i>Tofieldia glutinosa ssp. brevistyla</i>	Sticky False-asphodel	TOFGLBR	G5T4	S4?			R-A	
<i>Torreyochloa pallida var. fernaldii*</i>	Fernald's Manna Grass	TORFERN	G5?T4Q	S4			R-C	
<i>Toxicodendron vernix*</i>	Poison Sumac	RHUVERN	G5	S4			R-A	
<i>Triadenum virginicum</i>	Marsh St.John's-wort	TRIVIRG	G5	S3			R-A	
<i>Trichophorum alpinum*</i>	Hudson Bay Bulrush	SCIHUDS	G5	S5			R-A	
<i>Trichophorum caespitosum*</i>	Tufted Leafless-bulrush	SCICESP	G5	S5			R-C	
<i>Triglochin maritimum</i>	Common Bog Arrow-grass	TRIMARI	G5	S5			R-A	
<i>Triglochin palustre</i>	Marsh Arrow-grass	TRIPALU	G5	S5			R-A	
<i>Trillium cernuum</i>	Nodding Trillium	TRICERN	G5	S5			R-C	
<i>Utricularia cornuta</i>	Horned Bladderwort	UTRCORN	G5	S5			R-A	
<i>Utricularia gibba</i>	Humped Bladderwort	UTRGIBB	G5	S4			R-C	
<i>Utricularia minor</i>	Lesser Bladderwort	UTRMINO	G5	S5			R-A	
<i>Vaccinium corymbosum</i>	Highbush Blueberry	VACCORY	G5	S4			R-A	1, 22, 56, 66
<i>Vaccinium pallidum</i>	Early Lowbush Blueberry	VACPALL	G5	S4			R-A	
<i>Valeriana uliginosa*</i>	Marsh Valerian	VALSIUL	G4G5T4	S2			R-A	
<i>Verbena simplex</i>	Narrow-leaved Vervain	VERSIMP	G5	S4			R-C	
<i>Verbena stricta</i>	Hoary Vervain	VERSTRI	G5	S4			R-C	
<i>Viola adunca</i>	Sand Violet	VIOADUN	G5	S4S5			R-A	
<i>Zigadenus elegans ssp. glaucus</i>	White Camas	ZIGELGL	G5T4?	S4			R-A	
<i>Zizania palustris</i>	Northern Wild Rice	ZIZPALU	G4G5T4T5	S4			R-C	
<i>Zizia aurea</i>	Common Alexanders	ZIZAURE	G5	S5			R-A	

## LEGEND & DEFINITIONS

<sup>1</sup> Scientific names are consistent with the Flora of Ontario (<http://www.uoguelph.ca/foibis/>), last updated April 2008.

\* Indicates the scientific name has been changed from the Ontario Plant List name (Newmaster *et al.* 1998).

<sup>2</sup> OPL Code = the 6 or 7 letter code used under the older Ontario Plant List (Newmaster *et al.* 1998).

\*\* Indicates this species is considered extirpated in the County by Allan Anderson, co-author of the Flora of Wellington County (unpublished).

### <sup>3</sup> GRANK / GLOBAL RANKS (no legislative basis):

G1 = Extremely rare; usually 5 or fewer occurrences in the overall range or very few remaining individuals; or because of some factor(s) making it especially vulnerable to extinction.

G2 = Very rare; usually between 5 and 20 occurrences in the overall range or with many individuals in fewer occurrences; or because of some factor(s) making it vulnerable to extinction.

G3 = Rare to uncommon; usually between 20 and 100 occurrences; may have fewer occurrences, but with a large number of individuals in some populations; may be susceptible to large-scale disturbances.

G4 = Common; usually more than 100 occurrences; usually not susceptible to immediate threats.

G5 = Very common; demonstrably secure under present conditions.

GH = Historic, no records in the past 20 years.

GU = Status uncertain, often because of low search effort or cryptic nature of the species; more data needed.

GX = Globally extinct. No recent records despite specific searches. ? = Denotes inexact numeric rank (*i.e.* G4?).

G = A "G" (or "T") followed by a blank space means that the NHIC has not yet obtained the Global Rank from The Nature Conservancy.

G? = Unranked, or, if following a ranking, rank tentatively assigned (*e.g.* G3?).

Q = Denotes that the taxonomic status of the species, subspecies, or variety is questionable.

T = Denotes that the rank applies to a subspecies or variety.

### <sup>4</sup> COSEWIC (NATIONAL RANK - formal):

Endangered (E): A wildlife species facing imminent extirpation or extinction.

Extirpated (XT): A wildlife species no longer existing in the wild in Canada, but occurring elsewhere.

Extinct (X): A wildlife species that no longer exists.

Data Deficient (DD): A wildlife species for which there is inadequate information to make a direct, or indirect, assessment of its risk of extinction.

Not At Risk (NAR): A wildlife species that has been evaluated and found to be not at risk of extinction given the current circumstances.

Special Concern (SC): A wildlife species that may become a threatened or an endangered species because of a combination of biological characteristics and identified threats.

Threatened (T): A wildlife species likely to become endangered if limiting factors are not reversed.



##### **<sup>5</sup> MNR Status (PROVINCIAL RANK – formal)**

Extinct: A species that no longer exists anywhere.

Extirpated: A species that no longer exists in the wild in Ontario but still occurs elsewhere.

Endangered (END): A species facing imminent extinction or extirpation in Ontario.

Threatened (THR): A species that is at risk of becoming endangered in Ontario if limiting factors are not reversed.

Special Concern (SC): (formerly Vulnerable) A species with characteristics that make it sensitive to human activities or natural events.

Not at Risk (NAR): A species that has been evaluated and found to be not at risk.

Data Deficient (DD): (formerly Indeterminate) A species for which there is insufficient information for a provincial status recommendation.

##### **<sup>6</sup> SRank – PROVINCIAL RANK, informal (NHIC 2007)**

S1 = Critically imperiled in the nation or state/province because of extreme rarity (often 5 or fewer occurrences) or because of some factor(s) such as very steep declines making it especially vulnerable to extirpation from the state/province.

S2 = Imperiled in the nation or state/province because of rarity due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors making it very vulnerable to extirpation from the nation or state/province.

S3 = Rare to uncommon in Ontario; usually 20 – 100 occurrences in the province; may have fewer occurrences, but with a large number of individuals in some populations; may be susceptible to large-scale disturbances.

S4 = Common and apparently secure in Ontario; usually with more than 100 occurrences in the province.

S5 = Very common and demonstrably secure in Ontario.

SX = Species or community is believed to be extirpated from the nation or state/province. Not located despite intensive searches of historical sites and other appropriate habitat, and virtually no likelihood that it will be rediscovered.

SH = Species or community occurred historically in the nation or state/province, and there is some possibility that it may be rediscovered. Its presence may not have been verified in the past 20-40 years.

SNR = Nation or state/province conservation status not yet assessed.

SU = Currently unrankable due to lack of information or due to substantially conflicting information about status or trends.

SNA = A conservation status rank is not applicable because the species is not a suitable target for conservation activities.

##### **<sup>7</sup> WC – RARE IN WELLINGTON COUNTY (informal)**

R-A: Included based on "rare" status (*i.e.*, occurrence at between 1 and 10 natural sites in the County) in the Flora of Wellington County (Anderson and Frank 2004, unpublished) and subsequent revisions by A. Anderson over 2005-2008.

R-B: Added as a plant record from post-1990 environmental studies within Guelph with global and/or provincial significance.

R-C: Added based on records provided by Mike Oldham (NHIC) for Wellington County in 2005, verification of records in OAC herbarium (Jan. - Feb. 2008) and supplementary review by Mike Oldham Dec. 2007 - Feb. 2008.

R-D: New record for Wellington County (observed during field work conducted by Dougan & Associates 2005-2006).

##### **<sup>8</sup> GUELPH RECORDS - SOURCE LIST FOR SPECIES RECORDS IN GUELPH (& ENVIRONS)**

1 - Ecologistics Ltd, *et al.* Clythe Creek Subwatershed Overview. For Metrus Developments, Jan. 1998.

2 - Totten Sims Hubicki, *et al.* Torrance Creek Subwatershed Study- Phase 1: Appendices. For the GRCA and the City of Guelph, Oct. 1997.

11 - LGL Environmental Research Associates, *et al.* South Guelph Secondary Plan Area Scoped EIS. For the City of Guelph and Business Development Department, Nov. 1998.

14 - Black, Shoemaker, Robinson & Donaldson Ltd., *et al.* Victoria Road North Secondary Plan. Jun. 1999 as amended by enclosures Nov. 1999, Dec. 1999.

- 17 - Ecological Services for Planning Ltd. Cheltonwood School Site Scoped Environmental Impact Study. For Victoria Wood Development Corporation, Feb. 1996.
- 18 - Ecological Services for Planning Ltd. Environmental Impact Statement for Arkell Investments Inc. Subdivision, Part Lots 1, 2 and 3, Registered Plan 488, City of Guelph. May 1994.
- 20 - Ecologistics Limited. Grange Hill Developments Environmental Impact Study. For Metrus Development Inc., Jul. 1998.
- 24 - Geomatics International Inc., *et al.* Mitchell Farm Phase II Environmental Impact Study. For ARMEL Corporation, Dec. 1992.
- 25 - GWS Ecological & Forestry Services Inc. Environmental Impact Study for Proposed Edinburgh/Stone Road Development South of the Dairy Bush Guelph, Ontario. For Richmond Property Ltd., Apr. 2003.
- 31 - LGL Environmental Research Associates, *et al.* 211 Kortright Road Scoped Environmental Impact Study. For Everest Homes, December 2003.
- 32 - Stantec Consulting Inc., *et al.* Environmental Impact Study (Gordon Street and Arkell Road, City of Guelph). For The Salvation Army, May 2002.
- 33 - ESG International. Scoped Site Environmental Impact Study (1007 Gordon Street, City of Guelph). For The Woolwich Group, August 2000.
- 34 - Geomatics International Inc. Environmental Appraisal (Eastview Planning Area, Valeriotte Lands). For Richard Valeriotte, November 1998.
- 35 - Blackport & Associates, *et al.* Environmental Impact Study (Watson Industrial Subdivision, City of Guelph). July 2001.
- 38 - Paul F. J. Eagles Planning Limited. An Assessment of Environmental Impacts of the Springfield Golf Course on the Property of the Foundation for the Support of International Medical Training (Canada). 1993.
- 41 - Ecoplans Ltd. Additional Field Surveys in Pine Ridge East Development Area, Torrance Creek Subwatershed. March 4, 1997.
- 46 - Gamsby and Mannerow Limited, and Environmental Advisory Services Limited. 1996. Environmental Impact Study and Stormwater Management Plan, Draft Plan Approval, Coldpoint Properties Ltd. Part Lots 2 & 3, Concession 6, City of Guelph.
- 47 - Environmental Advisory Services Limited. Westside Joint Venture Property - City of Guelph Scoped Environmental Impact Statement. April 1994.
- 54 - Stantec Consulting Ltd. Pergola Drive-In Scoped Environmental Impact Study Report. September 2003.
- 55 - Gamsby and Mannerow Limited, Cumming Cockburn Limited and Code, MacKinnon Limited. Southcreek Residential Development City of Guelph Environmental Impact Study. June 1992.
- 56 - Weinstein Leeming + Associates *et al.* 1992 - City of Guelph River Systems Management Study - Technical Report #1: Inventory and Analysis of Terrestrial and Aquatic Ecology. August 1992. Appendices.
- 65 - Dougan & Associates, and Stantec Consulting Ltd. Environmental Impact Study: Former Misersky Property, 72 Watson Road N., Guelph. For Guelph Grange Hill Developments Limited, 2001
- 66 - Dougan & Associates, 2004. Environmental Impact Study: Revised Grange Hill Phase 4. Prepared for Guelph Grange Hill Developments.
- 67 - Mackinnon & Associates. Environmental Impact Study: Westminster Woods Ltd, Draft Plan of Subdivision, Lots 6 and 7, Concession 8.1998
- 80 - ESG International, 1999. Bathgate Drive Extension Scoped Impact Assessment.
- 84 - Dougan & Associates, species recorded during field surveys conducted over 2005 by various field staff.
- 86 - Paul F. J. Eagles Planning Ltd. 1989. Univ. of Guelph Arboretum south of Stone Road - Vegetation Description and Assessment
- 88 - Ecoplans Ltd. 2000. Environmental Implementation Report, Kortright Hills IV subdivision, City of Guelph.
- 89 - Paul F. J. Eagles Planning Ltd. 2001. An Evaluation of Environmental Impacts of the Springfield golf course on the Property of the Foundation for the Support of International Medical Training (Canada).
- 91 - ESG International Inc. 1999. 6 and 7 Developments Ltd. Environmental Impact Study for Development Adjacent to the Marden South Wetland Complex.
- 97 - Dougan & Assoc. 2007. Final Report, Scoped Environmental Impact Study Norm Jary Park - Master Plan.
- 101 - North-South Environmental Inc. 2001. Environmental Impact Study, Westminster Woods East (Adam's Farm).
- 106 - Dougan & Associates, 2006. Environmental Impact Study Guelph Grange Hill Phase 7
- 109 - Stantec, 2005. Impact Assessment for the Victoria Park Golf Course West Condominium Community.
- 110 - Stantec, 2007. Dallon Lands, Environmental Impact Statement.