

FENSHAM RESERVE

Information Source: White, Peter, Fensham Reserve Management Plan, approved March 2000.

Location: 4.7kms north-north-west of Carterton, Wairarapa, on the southern side of Cobden Rd between Upper Belvedere & Haringa Rds. It is 100-170m above sea level. The map reference in the NZMS 260 series is map number S26 grid reference 208 204.

Figure 1 Reserve Location

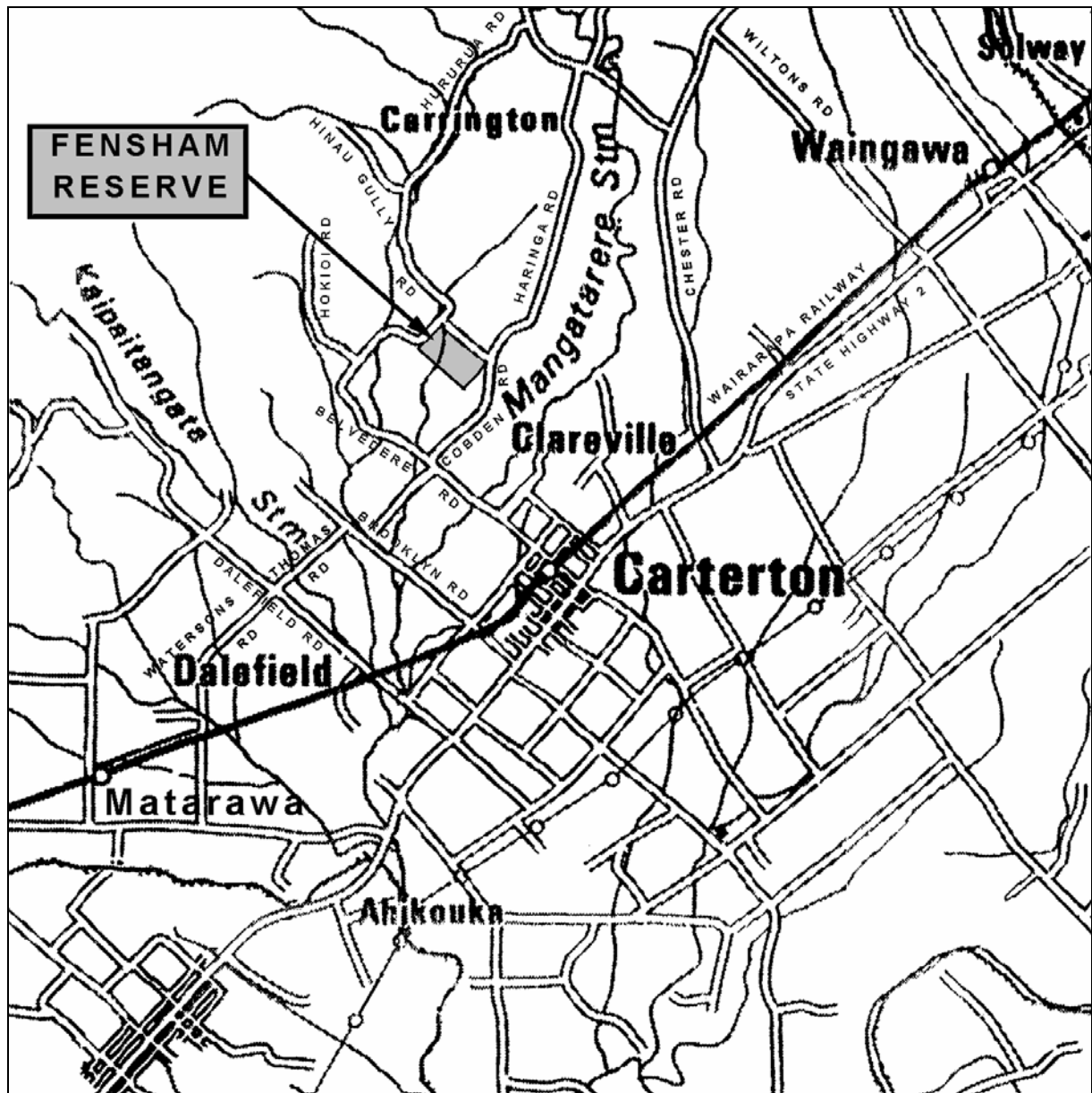


Figure 2 Vegetation Types

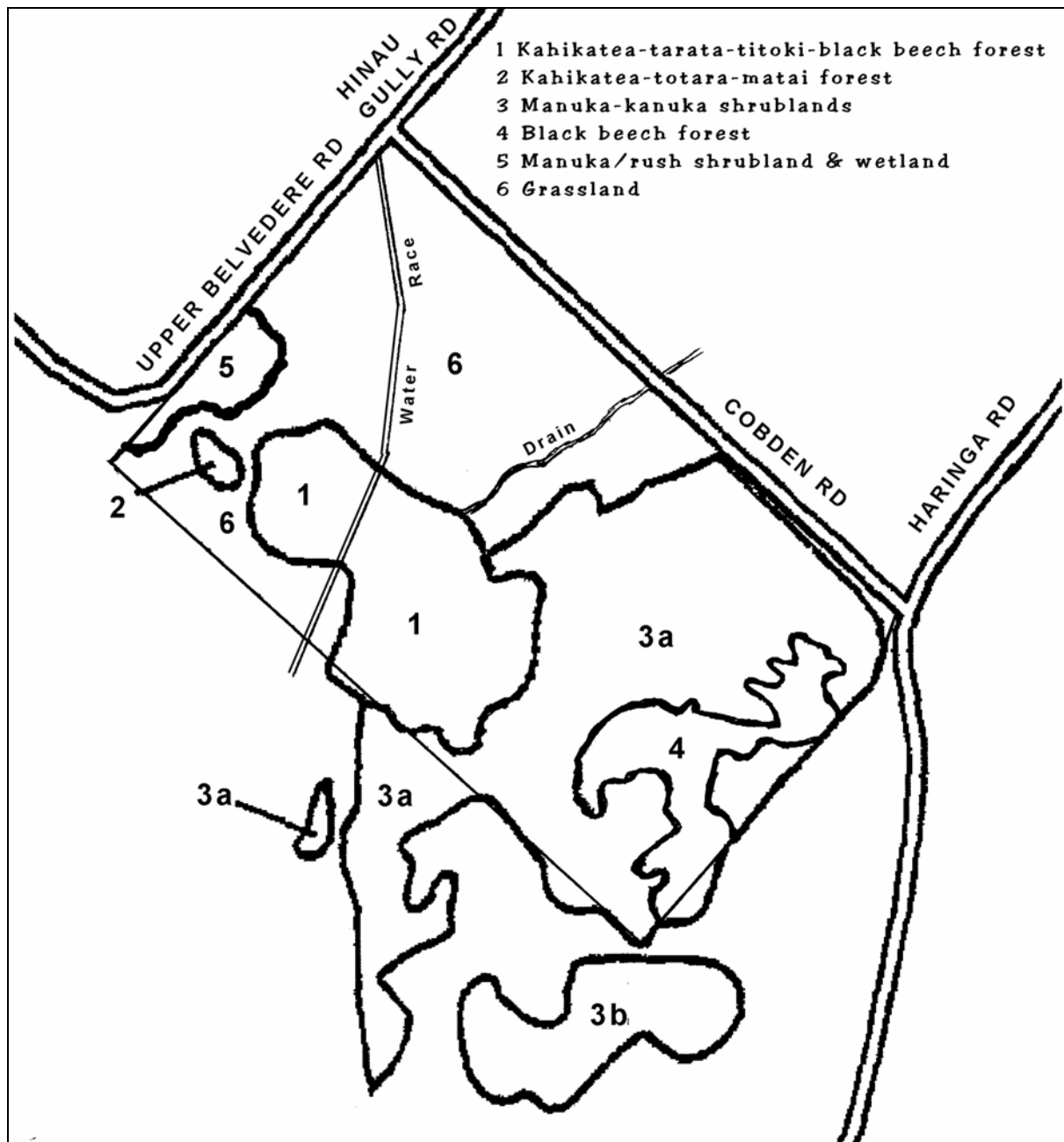


Table 1 Key to Vegetation Map

#	Vegetation Type
1	Kahikatea-tarata-titoki-black beech forest with totara, matai, rimu, kowhai and hinau on alluvial plain and hill slope.
2	Kahikatea-totara-matai forest with kanuka, hinau, pokaka and black beech on alluvial plain.
3a & 3b	Manuka-kanuka-rewarewa regenerating forest and shrublands with mingimingi (<i>Cyathodes juniperina</i> and <i>Leucopogon fasciculatus</i>), five finger, kamahi and emergent black beech on hill.
4	Black beech forest on hill.
5	Manuka/rush-sedge shrublands and wetland with kahikatea totara and mahoe on

	alluvial plain.
6	Exotic grasslands on alluvial plain.

APPENDIX 1: NATIVE FLORA IN FENSHAM RESERVE

Based on lists compiled by A P Druce 1969-1990, Wellington Botanical Society and Forest and Bird April 1995, revised by Peter White, March 1999

Legend

- (unc) uncommon (only one or a very few specimens seen)
- (o) occasional
- (p) planted
- (p+) planted and naturally occurring
- (l) local (may be common in small part of area)
- (KS) noted by Kevin Smith

SCIENTIFIC NAME	MAORI NAME	ENGLISH NAME
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GYMNOSPERM TREES

<i>Dacrycarpus dacrydioides</i>	kahikatea	white pine
<i>Dacrydium cupressinum</i>	rimu	red pine
<i>Libocedrus bidwillii</i> (unc)	pahautea	
<i>Podocarpus totara</i>	totara	
<i>Prumnopitys ferruginea</i> (unc)	miro	brown pine
<i>P. taxifolia</i>	matai	black pine

DICOT TREES AND SHRUBS

<i>Alectryon excelsis</i> var. <i>excelsis</i>	titoki	NZ oak
<i>Aristotelia serrata</i> (unc)	makomako	wineberry
<i>Beilschmiedia tawa</i>	tawa	
<i>Brachyglottis repanda</i> s.s.	rangiora	
<i>Carpodetus serratus</i>	putaputaweta	
<i>Cassinia leptophylla</i> var. <i>laptophylla</i> (unc)	tauhinu	
<i>Coprosma areolata</i>		thin-leaved coprosma
<i>C. crassifolia</i>		
<i>C. grandifolia</i>	kanono	
<i>C. lucida</i> s.s.	karamu	shiny karamu
<i>C. microcarpa</i> (unc)		
<i>C. propinqua</i> ssp. <i>propinqua</i> (incl. <i>C. p.</i> var. <i>latiuscula</i>)		
<i>C. rhamnoides</i> ssp. <i>rhamnoides</i> (incl. <i>C. polymorpha</i>)		twiggy coprosma
<i>C. rigida</i>		
<i>C. robusta</i> (p) (unc)	karamu	
<i>C. r. x propinqua</i>		
<i>C. rotundifolia</i>		round-leaved coprosma

SCIENTIFIC NAME	MAORI NAME	ENGLISH NAME
<i>C. tenuicaulis</i>	hukihuki	swamp coprosma
<i>Cyathodes juniperina</i> var. (lvs. small, us. <1cm x <1mm)	mingimingi	prickly mingimingi
<i>Dodonaea viscosa</i> (p)	akeake	
<i>Elaeocarpus dentatus</i> (incl. <i>E.</i> var. <i>obovatus</i>)	hinau	
<i>E. hookerianus</i> (unc)	pokaka	
<i>Fuchsia excorticata</i> (unc) - 1 only seen	kotukutuku	tree fuchsia
<i>Gaultheria antipoda</i>	tawiniwini	snowberry
<i>Geniostoma rupestre</i>	hangehange	Maori privet
<i>Griselinia littoralis</i> (p+)	papauma	broadleaf
<i>G. lucida</i> (p)	puka	broadleaf
<i>Hebe stricta</i> var. <i>atkinsonii</i> (unc)	koromiko	
<i>Hedycarya arborea</i>	porokaiwhiri	pigeonwood
<i>Hoheria populnea</i> v. <i>lanceolata</i> (<i>H. sexstylosa</i>)	houhere	lacebark
<i>Knightsia excelsa</i>	rewarewa	NZ honeysuckle
<i>Kunzea ericoides</i> var.	kanuka	
<i>Laurelia novae-zelandiae</i>	pukatea	
<i>Leptospermum scoparium</i>	manuka	tea tree
<i>Leucopogon fasciculatus</i>	mingimingi	
<i>Lophomyrtus bullata</i> (unc)	ramarama	
<i>L. obcordata</i> (unc)	rohutu	
<i>Macropiper excelsum</i> var. <i>excelsum</i> (unc)	kawakawa	
<i>Melicope simplex</i>	poataniwha	
<i>Melicytus micranthus</i> (incl. <i>M. m.</i> var. <i>microphyllus</i>) (unc)		small-leaved mahoe
<i>M. ramiflorus</i> ssp. <i>ramiflorus</i>	mahoe	whitey wood
<i>Myrsine australis</i>	mapou	red matipo
<i>M. salicina</i>	toro	
<i>Neomyrtus pedunculata</i>	rohutu	mountain rohutu
<i>Nestegis cunninghamii</i> (unc)	maire	black maire
<i>N. lanceolata</i>	maire	white maire
<i>N. montana</i> (unc)	oro-oro	narrow-leaved maire
<i>Nothofagus fusca</i> (p) (unc)	tawhairaunui	red beech
<i>N. solandri</i> var. <i>solandri</i>	tawhairauriki	black beech
? <i>N. truncata</i> ? - 1 only seen	tawhairaunui	hard beech
<i>Olearia lineata</i> (p+)		
<i>O. rani</i> var. <i>colorata</i>	heketara	
<i>O. solandri</i> (p)		coastal tree daisy
<i>O. virgata</i> var. <i>virgata</i> (incl. <i>O. v.</i> var. <i>ramuliflora</i>)		twiggy tree daisy
<i>Pennantia corymbosa</i>	kaikomako	
<i>Pittosporum eugenioides</i> (p+)	tarata	lemonwood
<i>P. ralphii</i> (p)	karo	
<i>P. tenuifolium</i> ssp. <i>tenuifolium</i> (unc) (p?)	kohuhu	
<i>Plagianthus regius</i>	manatu	ribbonwood
<i>Pseudopanax anomalus</i> (= <i>Neopanax anomalus</i>)		

SCIENTIFIC NAME	MAORI NAME	ENGLISH NAME
<i>P. arboreus</i> var. <i>arboreus</i>	puahou	five finger
<i>P. crassifolius</i>	horoeke	lancewood
<i>Pseudowintera axillaris</i>	horopito	pepper tree
<i>Schefflera digitata</i> (unc)	pate	sevenfinger
<i>Solanum laciniatum</i>	poroporo	
<i>Sophora microphylla</i> (p+) (unc)	kowhai	
<i>Streblus heterophyllus</i>	turepo	small-leaved milk tree
<i>Syzygium maire</i>	maire tawaki	swamp maire
<i>Weinmannia racemosa</i> var. <i>racemosa</i>	kamahi	

DICOT LIANES

<i>Calystegia tuguriorum</i>		native bindweed
<i>Clematis foetida</i> (unc)		yellow clematis
<i>C. forsteri</i> (unc)		
<i>C. paniculata</i> (unc)	pua-wiananga	native clematis
<i>Metrosideros colensoi</i> (incl. <i>M. c.</i> var. <i>pendens</i>)		white climbing rata
<i>M. diffusa</i>		white climbing rata
<i>M. perforata</i>	aka	small white rata vine
<i>Muehlenbeckia australis</i>	pohuehue	large-leaved muehlenbeckia
<i>Parsonsia heterophylla</i>	kaihua	native jasmine
<i>Passiflora tetrandra</i>	kohia	NZ passionfruit
<i>Rubus australis</i>	tataramoa	swamp lawyer
<i>R. schmidelioides</i> var. <i>schmidelioides</i>	tataramoa	white lawyer

MONOCOT TREES

<i>Cordyline australis</i> (p+) (unc)	ti kouka	cabbage tree
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MONOCOT LIANES

<i>Rhipogonum scandens</i>	kareao	supplejack
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FERN ALLIES

<i>Lycopodium volubile</i>		hanging clubmoss
<i>L. varium</i> (incl. <i>L. billardierei</i> and <i>L. novae-zelandicum</i>) (unc)		hanging clubmoss
<i>Tmesipteris longata</i> (unc)*		

FERNS

<i>Adiantum cunninghamii</i>	puhinui	common maidenhair fern
<i>Asplenium bulbiferum</i> agg.	Mouku	hen and chickens fern
<i>A. flabellifolium</i>		
<i>A. flaccidum</i>	makawa	hanging spleenwort
<i>A. gracillimum</i>		
<i>A. hookerianum</i>		Hooker's spleenwort
<i>A. oblongifolium</i>	huruhuru whenua	shining spleenwort
<i>A. polyodon</i>	petako	sickle spleenwort

SCIENTIFIC NAME	MAORI NAME	ENGLISH NAME
<i>A. hybrids of A. bulbiferum, A. flaccidum,</i>		
<i>A. hookerianum</i>		
<i>Blechnum chambersii</i> (unc)	rereti	
<i>B. discolor</i>	piupiu	crown fern
<i>B. filiforme</i>	panako	thread fern
<i>B. fluviatile</i> agg.	Kiwikiwi	creek fern
<i>B. membranaceum</i> (unc)		
<i>B. minus</i>		
<i>B. m. x B. chambersii</i> (unc)		
<i>B. sp.</i> ("black spot" lowland)	kiokio	palm-leaf fern
<i>B. sp.</i> "brown scale" (= <i>B. procerum</i>)		common hard fern
<i>Botrychium bifforme</i>		parsley fern
<i>Cyathea dealbata</i>	ponga	silver tree fern
<i>C. medullaris</i>	mamaku	black tree fern
<i>C. smithii</i>	katote	soft tree fern
<i>Dicksonia fibrosa</i>	wheki-ponga	fibrous tree fern
<i>D. squarrosa</i>	wheki	rough tree fern
<i>Histiopteris incisa</i>	matata	water fern
<i>Hymenophyllum bivalve</i>		filmy fern
<i>H. flabelletum</i>		filmy fern
<i>H. multifidum</i>		filmy fern
<i>H. sanguinolentum</i> agg.		filmy fern
<i>H. scabrum</i>		filmy fern
<i>Hypolepis ambigua</i>		filmy fern
<i>Lastreopsis glabella</i>		
<i>L. hispida</i>	tuakura	hairy fern
<i>Lindsaea linearis</i>		
<i>L. trichomanoides</i>		
<i>Paesia scaberula</i>		lace fern
<i>Pellaea rotundifolia</i>	tarawera	button fern
<i>Phymatosorus pustulatus</i> (= <i>P. diversifolius</i>)	kowaowao	hound's tongue fern
<i>Pneumatopteris pennigera</i>	pakau	gully fern
<i>Polystichum richardii</i> (unc)	pikopiko	common shield fern
<i>Pteridium esculentum</i>	rarahū	bracken
<i>Pyrossia eleagnifolia</i>	ngarara wehi	leather-leaf fern

ORCHIDS

<i>Winika cunninghamii</i> (= <i>Dendrobium cunninghamii</i>) (unc)		lady's slipper orchid
<i>Earina autumnalis</i> (unc)	raupeka	Easter orchid
<i>E. mucronata</i> s.s.	peka-a-waka	bamboo orchid
<i>Microtis unifolia</i> (unc)		
<i>Pterostylis alobula</i>		greenhood orchid
<i>P. banksii</i> (unc)	tutu-kiwi	elf's hood orchid
<i>Thelymitra longifolia</i>		white sun orchid

GRASSES

<i>Cortaderia fulvida</i> (1)	toetoe	
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SCIENTIFIC NAME	MAORI NAME	ENGLISH NAME
<i>C. toetoe</i> (o)	toetoe	
<i>Microlaena avenacea</i> (unc)	paatiitii	bush rice-grass
<i>M. stipoides</i>		meadow rice-grass
<i>Rhynchospora clavatum</i>		danthonia
<i>R. gracile</i>		danthonia

SEDGES

<i>Baumea tenax</i> (unc)		sedge tussock
<i>B. rubiginosa</i> (unc)		
<i>Carex dissita</i> s.s.		carex bush sedge
<i>C. inversa</i> (unc)		
<i>C. lessoniana</i>		
<i>C. maorica</i> (unc)		
<i>C. secta</i> s.s. (unc)	purei	niggerhead
<i>C. virgata</i>		
<i>Eleocharis acuta</i>		sharp spike-sedge
<i>E. gracilis</i>		slender spike-sedge
<i>Isolepis distigmata</i>		
<i>I. inundata</i>		
<i>I. prolifer</i>		
<i>I. reticularis</i> (= <i>Scirpus reticularis</i>) (unc)		
<i>Schoenus apogon</i> (unc)		
<i>S. maschalinus</i> (unc)		
<i>Uncinia banksii</i> (unc)		hook sedge
<i>U. rupestris</i> (incl. <i>U. angustifolia</i>)		hook sedge
<i>U. uncinata</i>	kamu	hook sedge
<i>U. rupestris</i> x <i>uncinata</i>		hook sedge
<i>U. sp.</i> (fine leaf - not <i>U. banksii</i>)		hook sedge

RUSHES

<i>Juncus gregiflorus</i> (unc)	wiwi	
<i>J. pallidus</i> (unc)		
<i>J. planifolius</i>		
<i>J. sarophorus</i>		
<i>J. sp.</i> (or <i>J. sarophorus</i> x <i>effusus</i> ?)		
<i>Luzula picta</i> s.s.		wood-rush

COMPOSITE HERBS

<i>Helichrysum aggregatum</i>		
<i>Lagenifera strangulata</i> (unc)	parani	
<i>Senecio glomeratus</i> (unc)		fireweed
<i>S. minimus</i>		fireweed

DICOT HERBS OTHER THAN COMPOSITES

<i>Acaena anserinifolia</i> (unc)		bidibidi, piripiri
<i>Callitriche muelleri</i>		native starwort
<i>Cardamine sp.</i> (<i>C. debilis</i> agg.) (“Narrow Petal” of Pritchard 1957)		bittercress
<i>C. sp.</i> (<i>C. debilis</i> agg.) (“Long Style” of		bittercress

SCIENTIFIC NAME	MAORI NAME	ENGLISH NAME
Pritchard)		
<i>Centella uniflora</i>		
<i>Dichondra</i> sp.		Mercury Bay weed
<i>Epilobium insulare</i> (unc)		willow herb
<i>E. pallidiflorum</i> (unc)		willow herb
<i>E. rotundifolium</i> (unc)		willow herb
<i>Gonocarpus micranthus</i> ssp. <i>micranthus</i>		
<i>Hydrocotyle dissecta</i> (unc)		pennywort
<i>H. heteromeria</i>		pennywort
<i>H. moschata</i>		pennywort
<i>H. pterocarpa</i>		pennywort
<i>Myriophyllum propinquum</i> (unc)		water milfoil
<i>Nertera depressa</i> (incl. <i>N. cunninghamii</i>)		
<i>Oxalis exilis</i>		native oxalis, wood sorrel
<i>Ranunculus amphitrichus</i>	waoriki	buttercup
<i>Stellaria decipiens</i> (incl. <i>S. parviflora</i>)		
<i>Urtica incisa</i>		stinging nettle

MONOCOT HERBS (OTHER THAN ORCHIDS, GRASSES SEDGES, RUSHES)

<i>Arthropodium candidum</i> (unc)		native lily
<i>Dianella nigra</i>	turutu	native blueberry
<i>Lemna</i> sp. (<i>L. minor</i> of NZ authors)		duckweed
<i>Phormium cookianum</i> (p) (unc)	wharariki	mountain flax
<i>P. tenax</i> (p) (unc)	harekeke	NZ flax
<i>Potamogeton suboblongus</i> (unc)	rerewai	mud pondweed

MOSSES

<i>Sphagnum</i> sp. (KC) - in wetland		sphagnum moss
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APPENDIX 3: EXOTIC FLORA IN FENSHAM RESERVE

Legend

(unc)	uncommon
*	surveillance plant - eradicated from reserve but may reinvade
(KS)	noted by Kevin Smith

SCIENTIFIC NAME	COMMON NAME
<i>Acaena novae-zealandiae</i> (unc)	bidibid
<i>Agrostis capillaris</i>	browntop
<i>Berberis glaucocarpa</i> (unc)	barbery
<i>Bidens frondosa</i> (unc)	beggar's ticks
<i>Chamaecutisus palmensis</i>	tree lucerne
<i>Corastium fontanum</i> ssp. <i>vulgaris</i>	mouse-eared chickweed
<i>Chamaecytisus palmensis</i>	tagasaste
<i>Cirsium arvense</i>	Californian thistle
<i>C. vulgare</i>	Scotch thistle
<i>Clematis vitalba</i> *	old man's beard

<i>Cotoneaster</i> sp.	cotoneaster
<i>Crataegus monogyna</i> (unc)	hawthorn
<i>Crocsmia x crocosmiifolia</i> (KS)	montbretia
<i>Crepis capillaris</i>	hawksbeard
<i>Cyperus eragrostis</i>	umbrella sedge
<i>Cytisus scoparius</i>	broom
<i>Dactylis glomerata</i>	cocksfoot
<i>Digitalis purpurea</i>	foxglove
<i>Elaeagnus x reflexa</i>	elaeagnus
<i>Elodea canadensis</i> (unc)	oxygen weed
<i>Glyceria declinata</i>	blue sweet grass
<i>Hedera helix</i> ssp. <i>helix</i> (unc)	ivy
<i>Hydrangea macrophylla</i> (unc)	hydrangea
<i>Hypochoeris radicata</i>	catsear
<i>Iris foetidissima</i>	stinking iris
<i>Juncus articulatus</i>	jointed rush
<i>J. effusus</i>	soft rush
<i>Mycelis muralis</i>	wall lettuce
<i>Nasturtium microphyllum</i>	watercress
<i>Pinus radiata</i> (unc)	radiata pine
<i>Prunella vulgaris</i>	selfheal
<i>Ranunculus repens</i>	creeping buttercup
<i>Rubus fruticosus</i> agg. (unc)	blackberry
<i>Salix fragilis</i> (unc)	crack willow
<i>Sambucus nigra</i> (unc)	elder
<i>Senecio jacobaea</i>	ragwort
<i>Solanum gracile</i>	nightshade
<i>S. nigrum</i>	nightshade
<i>S. pseudocapsicum</i>	Jerusalem cherry
<i>Solcus lanatus</i>	Yorkshire fog
<i>Sonchus oleraceus</i>	puha, smooth sow thistle
<i>Tradescantia fluminensis</i>	wandering jew
<i>Ulex europaeus</i> (unc)	gorse
<i>Viola odorata</i>	violet
<i>Watsonia bulbifera</i>	watsonia