

CHECK-LIST OF INDIGENOUS VASCULAR PLANTS RECORDED FROM

TONGARIRO NATIONAL PARK†

SECOND APPROXIMATION : MAY 1971

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Additions and corrections — A.P. Druce June 1973  
April 1974

The following list of plants was compiled during the vegetation-soil survey of the Park made between 1960 and 1966. It has been added to subsequently by Mr A.P. Druce, D.S.I.R., Botany Division, to whom I am particularly indebted for information concerning the taxonomic status of a number of the plants recorded. This list is an interim step towards publication and I would appreciate receiving additions to it, both new species and new information on distribution.

August 1974  
Feb. 1975  
July 1975  
Oct. 1975  
July 1976  
May 1977  
March 1978

The Park has been divided into 5 floristic sectors for the purpose of recording plant distributions (see map). Symbols used for plant frequencies are:-

June 1979  
July 1980  
Jan. 1981  
Feb. 1982

- a ..... abundant; plant occurs in 50% or more of samples taken in suitable communities within the floristic sector
- m ..... many; plant often present in suitable communities but occurs in less than half the samples
- f ..... few; plant seen in less than 5 localities within the floristic sector.

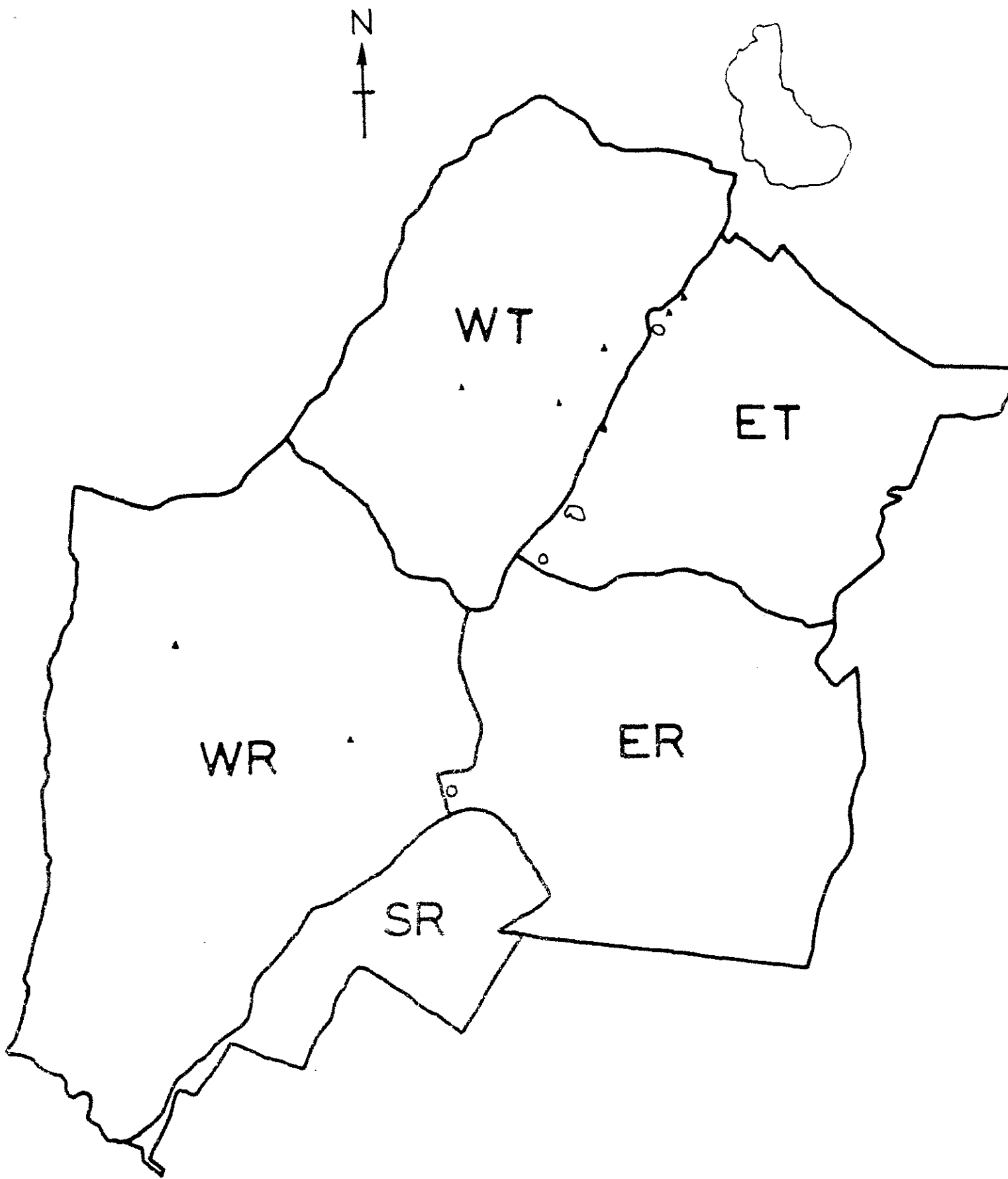
Oct. 1983  
Feb. 1984  
July 1984  
Nov. 1984  
Apr. 1985  
July 1985  
May 1986

Some plants, known to be present in the Park, have been listed without frequency ratings because information on their distribution is very incomplete. Numbers of species in each class of growth forms are:

Oct. 1987  
June 1988  
Aug. 1988  
Sept. 1988  
July 1989

(† As it existed before the incorporation of Pihanga Scenic Reserve)  
July 1991  
Nov. 1992  
Apr. 1993)

	<i>species</i>
Gymnosperm trees and shrubs .....	12
Angiosperm trees .....	38
Angiosperm shrubs .....	82
Lianes .....	13
Psilopsids and lycopods .....	9
Ferns .....	72
Grasses .....	45
Sedges .....	59
Rushes .....	16
Orchids .....	35
Monocot herbs (excluding grasses, sedges, rushes and orchids) .....	19
Composite herbs .....	44
Dicot herbs (excluding composites) .....	128
Total indigenous vascular flora .....	572



FLORISTIC SECTORS OF TONGARIRO  
NATIONAL PARK

Scientific Name	Common Name	Distribution within Park				
		WT	ET	WR	SR	ER
GYMNOSPERM TREES AND SHRUBS (12 species)						
<u>Dacrydium bidwillii</u> ( <u>Halocarpus bidw.</u> )	bog pine	m	m	a	m	m
<u>D. biforme</u> ( <u>H. biformis</u> )	pink pine	f		a	a	
<u>D. colensoi</u> ( <u>Lagarostrobos col.</u> )	silver pine	m	f	a	a	f
<u>D. cupressinum</u>	rimu	f	f	a	a	
<u>D. laxifolium</u> ( <u>Lepidothamnus l.</u> )	pygmy pine	a	a	a	a	f
<u>D. bidwillii</u> x <u>D. biforme</u> ( <u>H. bidw.</u> x <u>H. bif.</u> )				f		
<u>D. intermedium</u> x <u>D. laxifolium</u> ( <u>H. int.</u> x <u>H. lax.</u> )		f	f	f		f
<u>Libocedrus bidwillii</u>	kaikawaka	f		a	m	
<u>Phyllocladus alpinus</u> s.s.	mountain toatoa	a	a	a	a	f
<u>P. x P. trichomanoides?</u>		f				
<u>Podocarpus dacrydioides</u> ( <u>Dacrycarpus dac.</u> )	kahikatea	f	f	f	f	
<u>P. ferrugineus</u> ( <u>Prumnopitys ferruginea</u> )	mirro	m	m	a	a	
<u>P. hallii</u>	Hall's totara	a	a	a	m	f
<u>P. nivalis</u>	snow totara	a	m	a	m	m
<u>P. spicatus</u> ( <u>Prumnopitys taxifolia</u> )	matai	m	a	a	a	
<u>P. hallii</u> x <u>P. nivalis</u>		m	f	f		
ANGIOSPERM TREES (39 species)						
<u>Aristotelia serrata</u>	wineberry	m	m	a	a	
<u>Beilschmiedia tawa</u>	tawa			f	f	
<u>Carpodetus serratus</u>	putaputaweta	m	a	a	a	
<u>Cordyline australis</u>	cabbage tree	m	m			
<u>C. banksii</u>			f	f		
<u>C. indivisa</u>	mountain cabbage-tree	m	f	m	m	
<u>C. australis</u> x <u>C. indivisa</u>				f		
<u>Elaeocarpus dentatus</u> (incl. <u>E. d. var. obovatus</u> )	hinau	f			m	
<u>E. hookerianus</u>	pokaka	m	m	a	a	
<u>Fuchsia excorticata</u>	fuchsia	m	m	a	a	
<u>Griselinia littoralis</u>	broadleaf	a	a	m	m	f
<u>Hebe</u> sp. ( <u>H. parviflora</u> var. <u>arborea</u> of Moore 1961)	tree koromiko	f		f		

		WT	ET	WR	SR	ER
ANGIOSPERM TREES (38 species) - continued						
<u>Hoheria populnea</u> var. <u>lancoedata</u> ( <u>H. sixtylosa</u> )	lacebark			f		
<u>Kunzea ericoides</u> agg.	kanuka	a	a			
<u>Leptospermum scoparium</u>	manuka	a	a	a	a	a
<u>Meliccytus lanceolatus</u> (incl. <u>M. l.</u> var. <u>latior</u> )	narrow-leaved mahoe	f	f	f	m	
<u>M. ramiflorus</u> ssp. <u>ramiflorus</u>	mahoe	f		m	a	
<u>Metrosideros robusta</u>	northern rata			m	f	
<u>Myrsine australis</u>	mapou	f	f			
<u>M. salicina</u>	toro	m	f	m	m	
<u>Nestegis cunninghamii</u>	black maire		f	m	m	
<u>N. lanceolata</u>	white maire			f	m	
<u>Nothofagus fusca</u>	red beech		m		a	
<u>N. menziesii</u>	silver beech		f		a	
<u>N. solandri</u> var. <u>cliffortioides</u> <sup>1</sup>	mountain beech		a	a	a	
<u>N. fusca</u> x <u>N. solandri</u> var. <u>cliffortioides</u>			f	f		
<del><u>Strobilus heterophyllus</u></del> <del><u>Paratrophis microphylla</u></del>	small-leaved milk tree			f		
✓ <u>Pennantia corymbosa</u>	kaikomako			f	m	
<u>Pittosporum eugenioides</u>	lemonwood	f	f			
<u>P. tenuifolium</u> ssp. <u>colensoi</u>		m	f	m	f	
<u>P. tenuifolium</u> ssp. <u>tenuifolium</u> <sup>2</sup>	kohuhu		f			
<u>Plagianthus regius</u> var. <u>regius</u>	ribbonwood			f		
<u>Pseudopanax arboreus</u> var. <u>arboreus</u>	fivefinger	m	a	a	a	
<u>P. colensoi</u> s.s.*	mountain fivefinger	m	f	a	a	f
<u>P. crassifolius</u>	lancewood	a	f	m	m	
<u>P. edgerleyi</u>	raukawa			f	m	
<u>P. simplex</u> <sup>3</sup>	haumakaroa	f	a	a	m	

<sup>1</sup> See additional notes

\* s.s. = sensu stricto

		WT	ET	WR	SR	ER
ANGIOSPERM TREES (38 species) - continued						
<u>Serrata</u> (incl. <u>G. elliptica</u> & <u>G.</u> <u>Quintinia acutifolia</u> )	Westland quintinia			f		
<u>Schefflera digitata</u>	pate	m	f	f	m	
<u>Sophora microphylla</u>	kowhai	f				
<u>Weinmannia racemosa</u> var. <u>racemosa</u>	kamahi	m	a	a	a	
ANGIOSPERM SHRUBS (82 species)						
<u>Alepis flavida</u> (= <u>Elytranthe</u> <u>flavida</u> )	yellow mistletoe			f		
<u>Alseuosmia pusilla</u>				m	f	
<u>A. turneri</u>				m	f	
<u>Aristotelia fruticosa</u> var. <u>microphylla</u>	mountain wineberry	m	f	a	f	f
<u>A. fruticosa</u> var. <u>microphylla</u> x <u>A. serrata</u>				f	f	
<u>Brachyglottis repanda</u> Ss.	rangiora	m	m	a	a	
<u>Carmichaelia</u> sp. (subgenus <u>Carmichaelia</u> )	native broom	m	f	m		f
<u>C. enysii</u> var. <u>orbiculata</u>	dwarf broom		f			a
<u>C. enysii</u> x <u>C. sp.</u>			f			f
<u>Cassinia vauvilliersii</u>	mountain tauhinu	m	a	m	a	a
<u>Coprosma acerosa</u> ssp.		f	f	f	f	
<u>C. grandifolia</u>	raurekau	m	f	a	m	
<u>C. cheesemanii</u> s.s.		a	a	a	a	a
<u>C. colensoi</u> Ss.		m		a	f	
<u>C. foetidissima</u>	stinkwood	a	f	a	a	f
<u>C. linariifolia</u>		f	f			
<u>C. lucida</u> s.s.	shiny karamu	f	m	m	f	
<u>C. microcarpa</u>		a	m	m	m	f
<u>C. petriei</u>			f			f
<u>C. propinqua</u> ssp. <u>propinqua</u>		f		f	f	f
<u>C. pseudocuneata</u> ssp. <u>pseudocuneata</u>		a	f	a	a	f

		WT	ET	WR	SR	ER
ANGIOSPERM SHRUBS (82 species) - continued						
<u>Coprosma</u> <u>perpusilla</u> ssp. <u>perpusilla</u> <del><u>perpusilla</u></del>	creeping coprosma	a	a	a	m	m
<u>C. rhamnoides</u> (incl. <u>C. polymorpha</u> )		m	m	f	f	
<u>C. rigida</u>		f		f		
<u>C. robusta</u>	karamu	m	m	f		
<u>C. rotundifolia</u>				f	f	
<u>C. rugosa</u> ssp. <u>rugosa</u>		m	f	m		
<u>C. tenuifolia</u>		a	a	a	a	
<u>C. sp. (i)</u> (unnamed; dupes red) ( <u>C. parviflora</u> var. <u>dumosa</u> Allan 1961, non <u>C. p. var. dumosa</u> Cheeseman 1906)				f		
<u>C. sp. (ii)</u> (unnamed; aff. <u>C. parviflora</u> )		a	f	a	a	f
<u>C. sp. (iii)</u> (unnamed; aff. <u>C. cheesemanii</u> )		m	f	f	a	f
<u>C. foetidissima</u> X <u>C. pseudocuneata</u>			f	f		
<u>C. rugosa</u> X <u>C. tenuifolia</u>		f				
<u>C. propinqua</u> X <u>C. robusta</u>			f			
<u>C. p.</u> X <u>C. tenuifolia</u>						
<u>Coriaria arborea</u>	tutu	a	a	m	m	
<u>C. plumosa</u>	mountain tutu		f	f	f	
<u>C. pteridoides</u>	" "	a	a	a	m	m
<u>C. arborea</u> X <u>C. pteridoides</u>		m		m		
<u>Korokia cotoneaster</u> var. <u>cotoneaster</u>	small-leaved korokio		f			f
<u>Lycopogon suaveolens</u> (incl. <u>C. colensoi</u> )	creeping mingimingi	f	a			m
<u>Crathogeomys dealbata</u> (incl. <u>C. punila</u> )				f		
<u>C. empetrifolia</u>	bog mingimingi	m	m	m		m
<u>L. fasciculatus</u> var.	mingimingi	m	m	a		
<u>L. fraseri</u> ss.	patotara	a	a	a	m	m
<u>C. sp. (C. juniperina agg.)</u> (lvs small, vs. 2 cm X 2 mm)	prickly mingimingi	a	a	m	m	f
<u>Dactylanthus taylorii</u>	wooden rose			f		
<u>Dracophyllum longifolium</u> var. (incl. <u>D. filifolium</u> and <u>D. oliveti</u> )	inaka	a	f	a	a	
<u>D. recurvum</u>	mountain inaka	a	a	a	a	a
<u>D. strictum</u>				f		

		WT	ET	WR	SR	ER
ANGIOSPERM SHRUBS (82 species) - continued						
<u>Dracophyllum subulatum</u>	monoao	m	a	f	a	a
<u>D. longifolium</u> x <u>D. recurvum</u>		f		f	f	
<u>D. l. x D. subulatum</u>		f		f		
<u>D. recurvum</u> x <u>D. subulatum</u>		f	f		f	f
<u>Epacris alpina</u>		m	a	a	a	a
<u>Gaultheria antipoda</u>	snowberry	a	a	f	m	f
<u>G. colensoi</u>	mountain gaultheria	a	m	a	a	m
<u>G. macrostigma</u>	wily snowberry	m	a	f	a	f
<u>G. paniculata</u>	gaultheria	f	f	f		
<u>G. sp.</u> (unnamed; included by Franklin 1962 in <u>G. depressa</u> (as var. <u>novae-zelandiae</u> ))	creeping snowberry	a	a	m	m	a
<u>G. antipoda</u> x <u>G. colensoi</u>						
<u>G. antipoda</u> x <u>G. paniculata</u>						
<u>G. antipoda</u> x <u>G. sp.</u> (unnamed)						
<u>G. antipoda</u> x <u>G. macrostigma</u>						
<u>G. colensoi</u> x <u>G. paniculata</u>						
<u>G. colensoi</u> x <u>G. sp.</u> (unnamed)						
<u>G. colensoi</u> x <u>G. macrostigma</u>						
<u>G. macrostigma</u> x <u>G. paniculata</u>						
<u>G. macrostigma</u> x <u>G. sp.</u> (unnamed)						
<u>Hebe stricta</u> var. <u>stricta</u>	koromiko	a	m	a	m	m
<u>H. tetragona</u> var. <u>tetragona</u>	whipcord hebe	a	a	f	a	m
<u>H. venustula</u> (incl. <u>H. brachysiphon</u> )	mountain koromiko	a	a	a	a	a
<u>H. odora</u> s.s.	mountain koromiko	m	f	a	m	
<u>H. sp.</u> ( <u>H. stricta</u> var. <u>egmontiana</u> cf Moore 1961)		f				
<u>H. stricta</u> x <u>H. venustula</u>				f		
<u>H. stricta</u> x <u>H. sp.</u> ( <u>H. parviflora</u> var. <u>arborea</u> )		f				
<u>H. tetragona</u> x <u>H. odora</u>						f
<u>Helichrysum aggregatum</u> var. <u>aggregatum</u> ( <u>H. glomeratum</u> of Allan 1961)		f	f			
<u>Melicope alpinus</u> s.s.						
<u>Hymenandra alpina</u> s.s.	mountain hymenandra		f			f



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WT ET WR SR ER

## ANGIOSPERM SHRUBS (82 species) - continued

		WT	ET	WR	SR	ER
<u>Melicope simplex</u>	poataniwha	m		f		
<u>Muehlenbeckia axillaris</u>	creeping pohuehue	a	m	m	m	a
<u>Myrsine divaricata</u> ss.	weeping mapou	a	f	a	a	f
<u>M. nummularia</u>	creeping mapou	m	f	m	m	f
<u>Neomyrtus pedunculata</u>	mountain rohutu	a	a	a	a	
<u>Olearia arborescens</u>		m	m	a	m	m
<u>O. nummularifolia</u> var. <u>nummularifolia</u>	golden olearia	a	a	a	f	m
<u>O. rani</u> var. <u>colorata</u>	heketara	f				
<u>O. virgata</u> var.				f		
<u>O. arborescens</u> x <u>O. ilicifolia</u>				f		
<u>Pentachondra pumila</u>		a	f	a	m	m
<u>Peraxilla colensoi</u> (=Elytranthe <u>colensoi</u> )	red mistletoe			f		
<u>P. tetrapetala</u> (=E. tetrapetala)	" "			f	f	
<u>Pimelea buxifolia</u>		a	f	m		m
<u>P. microphylla</u> ( <u>P. prostrata</u> var. <u>alpina</u> )		m	f	f	a	a
<u>P. oraophila</u>		f	m	f		
<u>P. prostrata</u> s.s.		a	a	m		m
<u>P. buxifolia</u> x <u>P. prostrata</u>				f		
<u>Pittosporum anomalum</u>		f	f	f		f
<u>P. divaricatum</u>			f			
<u>P. kirkii</u>				f	f	
<u>Pseudopanax anomalus</u>		m	f	m	m	
<u>P. anomalus</u> x <u>P. simplex</u>						
<u>Pseudowintera axillaris</u>	horopito			f	m	
<u>P. colorata</u>	red horopito	a	a	a	a	f
<u>Rhabdothamnus solandri</u>	matata			f		
<u>Brachyglottis bidwillii</u> var. <u>bidwillii</u>		a	f	a	f	f
<u>B.b.</u> x <u>B. rotundifolia</u> var. ( <u>B. alaeagnifolia</u> )				f		

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		WT	ET	WR	SR	ER
<u>Urtica farax</u>	tree nettle					
LIANES (13 species)				f		
<u>Clematis forsteri</u>						f
<u>C. paniculata</u>		f	m	m	m	
<u>C. quadibracteolata</u>			f			
<u>Metrosideros colensoi</u> (incl. <u>M.c.</u> climbing rata var. <u>pendens</u> )				f	f	
<u>M. diffusa</u>	climbing rata			f	a	
<u>M. perforata</u>	" "			f		
<u>Muehlenbeckia australis</u>	pohuehue	m	f	f	m	f
<u>M. complexa</u>	small-leaved pohuehue					f
<u>M. australis</u> x <u>M. axillaris</u>			f			
<u>M. australis</u> x <u>M. complexa</u>						f
<u>Parsonsia capsularis</u>	native jasmine	m	m	m	m	
<u>P. heterophylla</u>	" "		f	f		
<u>Ripogonum scandens</u>	supplejack			f		
<u>Rubus cissoides</u> var.	bush lawyer	m	a	a	a	
<u>R. schmidelioides</u> var. <u>schmidelioides</u>	" "	f	f	m	m	
<u>R. cissoides</u> var. x <u>R.</u> <u>schmidelioides</u> var. <u>schmidelioides</u>						
PSILOPSIDS AND LYCOPODS (9 species)						
<u>Lycopodium australianum</u>	club-moss	f	f	f	f	f
<u>L. cernuum</u>	" "		f			
<u>L. fastigiatum</u>	" "	a	f	a	a	a
<u>L. laterale</u> (incl. <u>L. ramulosum?</u> )	" "			f		
<u>L. scariosum</u>	" "	m	f	m	m	m
<u>L. varium</u> (incl. <u>L. billardieri</u> and <u>L. novae-zelandicum</u> )		m	f	m	f	
<u>L. volubile</u>	climbing club-moss	f	f	f		f
<u>Tmesipteris tannensis</u>			f	m	m	
<u>T. elongata</u> (incl. <u>T.e. ssp. robusta</u> )						f

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WT ET WR SR ER

## FERNS (72 species)

		WT	ET	WR	SR	ER
<u>Adiantum cunninghamii</u>	maidenhair		f	f		
<u>Asplenium bulbiferum</u>		f	f	a	f	
<u>A. polyodon</u>			f	a	m	
<u>A. hookerianum</u>		f	f	f	f	
<u>A. oblongifolium</u>				f		
<u>A. richardii</u>				f		
<u>A. flaccidum</u>		a	a	a	a	f
<u>A. terrestre ssp. terrestre</u>						
<u>A. bulbiferum x A. flaccidum</u>						
<u>A. b. x A. hookerianum</u>						
<u>A. flaccidum x A. terrestre (Brownsey 1977)</u>						
<u>Blechnum chambersii (=B. lanceolatum)</u>			f	f	f	
<u>B. colensoi</u>		m	m	m	m	
<u>B. discolor</u>	crown fern	m	m	a	a	
<u>B. fluviatile agg.</u>		m	a	a	a	
<u>B. nigrum</u>				f		
<u>B. penna-marina</u>		a	f	a	a	m
<u>B. procerum</u>		a	a	a	a	
<u>B. vulcanicum</u>		m	m	f		
<u>B. sp. (i) (common lowland sp.)</u>		m	f	a	f	
<u>B. sp. (ii) (cliff sp.)</u>					f	
<u>B. minus</u>				f		
<u>Botrychium australe</u>		f	f		f	
<u>B. bifurcme</u>		f				
<u>Cyathea colensoi</u>	prostrate ponga			f		
<u>C. dealbata</u>	ponga, silver	f	f	f		
<u>C. medullaris</u>	tree-fern matakū, black tree-fern			f		
<u>C. smithii</u>	soft tree-fern	f	f	a	a	
<u>Cystopteris tasmanica</u>				f		
<u>Dicksonia fibrosa</u>	wheki-ponga		f	f	a	
<u>D. lanata s.s.</u>	prostrate wheki		f	a	f	
<u>D. squarrosa</u>	wheki	m	f	f		
<u>Sticherus cunninghamii</u>	umbrella fern	a	a	a	a	f
<u>Gleichenia dicarpa</u>	bog umbrella fern	a	a	a	a	a

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		WT	ET	WR	SR	ER
FERNS (72 species) - continued						
<u>Grammitis poeppigiana</u>		f		f		
<u>G. magellanica</u> ssp. <u>nottofageti</u>		m		m	m	m
<u>G. billardierei</u>				a	a	
↑ <u>G. patagonica</u>		f	f	f		
↳ <u>Ctenopteris heterophylla</u>		a	a	f	m	
<u>Histiopteris incisa</u>		m	m	m	a	
<u>Hymenophyllum bivalve</u>				f		
<u>H. demissum</u>	filmy fern	f	f	f	m	
<u>H. dilatatum</u>	" "	f	f	f	m	
<u>H. ferrugineum</u>				f		
<u>H. flabellatum</u>	" "	m		f	a	
<u>H. malingii</u>	" "	f		m	a	
<u>H. multifidum</u>	" "	a	a	a	a	f
<u>H. peltatum</u>				f		
<u>H. pulcherrimum</u>	" "	f	f	f	a	
<u>H. rarum</u>	" "	m	a	a		
<u>H. revolutum</u>	" "		f			
<u>H. rufescens</u>	" "			f		
<u>H. sanguinolentum</u> agg.	" "	a	f	a	m	f
<u>H. scabrum</u>	" "	f	f	f		
<u>Hypolepis millefolium</u>		f				
<u>H. rufobarbata</u>			f	f	f	
<u>H. ambigua</u>		f	f			
<u>Leptolepia novae-zelandiae</u>			f	f	f	
<u>Lindsaea linearis</u>		f		f		
<u>Ophioglossum coriaceum</u> agg.	adder's tongue	f	f	f	f	
<u>Paesia scaberula</u>	scented fern	m	f	m		
<u>Phymatosorus novae-zelandiae</u>	hound's tongue			f	f	
<u>P. pustulatus</u>	" "	a	m	a	a	
<u>Polystichum richardii</u>			f		f	
<u>P. silvaticum</u>				f		
<u>P. vestitum</u>	scaly fern	a	a	a	f	r

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## FERNS (72 species) - continued

<u>Pteridium esculantum</u>	bracken	a	a	a	a
<u>Pyrrhosia deagnifolia</u>			f	f	
<u>Rumohra adiantiformis</u>				f	
<u>Schizaea australis</u>	comb fern			f	
<u>Pneumatopteris pennigera</u>			f	m	
<u>Leptopteris hymenophylloides</u>		m	a	f	m
<u>L. superba</u>		m	f	a	a
<u>Trichomanes reniforme</u>		f	f	f	f
<u>T. venosum</u>					f

## GRASSES (45 species)

<u>Elymus</u> sp. (aff. <u>E. rectisetus</u> )	blue grass		m	f	m	m
<u>E. hardyioides</u>			f	f	f	
<u>Agrostis dyeri</u> s.s.			f	f	f	f
<u>A. mulleriana</u>			f	f		f
<u>A. muscosa</u>			f	f		f
<u>A. pallescens</u>			f			
<u>A. personata</u>		f	f	f		
<u>Chionochloa pallens</u> ssp. <u>pallens</u>	mid-ribbed snow tussock	m	f	f		
<u>C. rubra</u> ssp. <u>rubra</u>	red tussock	a	a	a	a	a
<u>C. pallens</u> x <u>C. rubra</u>						
<u>Cortaderia fulvida</u>	toetoe	a	f	m	a	
<u>C. toetoe</u>	"	f	f			
<u>Daschampsia novae-zelandiae</u>				f		f
<u>D. tenella</u>				f		
<u>Deyeuxia aucklandica</u>		f	f	f		
<u>D. avenoides</u> (incl. <u>D.a.</u> var <u>brachyantha</u> )		f	a	f		m
<u>D. sp.</u> ( <u>D. quadriseta</u> agg.)				f		f
<u>Dichelachne cernita</u>	plume grass		f			f

		WT	ET	WR	SR	ER
GRASSES (45 species) - continued						
<u>Festuca novae-zelandiae</u>	hard tussock	m	a	f	m	m
<u>Hierochloa recurvata</u>	holy grass	m	m	f	f	
<u>H. redolens</u>	" "	a	m	m	m	a
<u>Koeleria cheesemanii</u>				f		
<u>Lachnagrostis filiformis</u> s.s.			f		f	
<u>L. richardii</u>			f		f	f
<u>L. striata</u>			f		f	f
<u>L. sp. (i)</u> (unnamed; included in <u>L. filiformis</u> as var. <u>semiglabra</u> by Zotov 1965)			f	f	f	f
<u>L. sp. (ii)</u> (unnamed)				f		
<u>Microlaena avenacea</u>	bush rice-grass	m	m	a	a	
<u>M. stipoides</u>	rice grass	m	m			
<u>Rytidosperma buchananii</u>			f			
<u>R. clavatum</u>		f	a	f	f	
<u>R. gracile</u>		m	f	a	m	a
<u>R. pumilum</u>		f				
<u>R. pulchrum</u>		m	f	f	f	
<u>R. setifolium</u>	bristle tussock	a	a	a	a	a
<u>R. viride</u>			f			f
<u>R. nuda</u>				f		
<u>Poa anceps</u> ssp. <u>anceps</u>		f	f	f		
<u>P. breviglumis</u>			f	f		
<u>P. colensoi</u>	blue tussock	a	f	a	a	f
<u>P. cita</u> <sup>6</sup>	silver tussock	a	a	a	a	a
<u>P. imbecilla</u>				f		
<u>P. pusilla</u>				f		
<u>P. sp.</u> (unnamed; aff. <u>P. novae-zelandiae</u> )		f		f		
<u>P. anceps</u> x <u>P. cita</u>			m			m

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	WT	ET	WR	SR	ER
<b>GRASSES (45 species) - continued</b>					
<u>Trisetum</u> sp. (i) (unnamed; aff. <u>T. antarcticum</u> )		f			f
<u>T.</u> sp. (ii) (unnamed; aff. <u>T. antarcticum</u> )			f		f
<b>SEDGES (58 species)</b>					
<u>Baumea rubiginosa</u>	m		a		
<u>B. tenax</u>	f		a		
<u>Carex acicularis</u>			f		
<u>C. astonii</u>			f		
<u>C. breviculmis</u>	m	m	f		
<u>C. carsei</u>			f		
<u>C. comans</u>	m	f	f		
<u>C. coriacea</u> ?	a	m	a	a	a
<u>C. dissita</u> s.s.	f	f	f	f	f
<u>C. echinata</u> var. ( <u>C. stallulata</u> var. <u>rustialis</u> )	a	f	a		a
<u>C. forsteri</u>		f			
<u>C. pyrenaica</u> var. <u>cephalotes</u>			f		
<u>C. secta</u> s.s. niggerhead	a	f	a		f
<u>C. rubicunda</u>					
<u>C. sinclairii</u>	f		f		
<u>C. solandri</u>		f	m	f	
<u>C. dipsacea</u> var. ( <u>C. tahcata</u> )	f		f	f	
<u>C. testacea</u> s.s.		f			
<u>C. uncifolia</u>			f		
<u>C. virgata</u>		f			
<u>Carpha alpina</u> s.s.	a	f	a	a	a
<u>Eleocharis acuta</u>			f		m
<u>E. gracilis</u>	m	f	a	m	m
<u>Gahnia pauciflora</u> cutty grass		f			
<u>G. procera</u> mountain cutty grass	m	f	a	a	
<u>G. xanthocarpa</u> cutty grass			f		

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		WT	ET	WR	SR	ER
SEDGES (59) species) - continued						
<u>Lepidosperma australe</u>		a	f	a		a
<u>Machaerina sinclairii</u>				f		
<u>Oreobolus pectinatus</u>	comb sedge	a	a	a	m	m
<u>Schoenus concinnus</u>		f				f
<u>S. fluitans</u>				f		
<u>S. maschalinus</u>		f		f		
<u>S. pauciflorus</u> <sup>8</sup> agg. (2 spp.)		a	f	a	a	m
<del>Isolopis</del> <u>Scirpus</u> aucklandica			m	m	a	m
<u>I (S.) crassiuscula</u>		f	m	m		a
<u>I (S.) fluitans</u>			f		f	a
<u>I (S.) habra</u>				f		
<u>I (S.) undata</u>				f		
<u>I (S.) pottsii</u>			f	f		f
<u>I (S.) prolifer</u>				f		
<u>I (S.) subtilissima</u>		f		m	f	m
<u>Uncinia sp. (unnamed) (U. affinis)</u>	hook grass	f		f		
<u>U. caespitosa</u>	" "			f		
<u>U. clavata</u>	" "	f		m		f
<u>U. distans</u>	" "			f		
<u>U. divaricata</u>	" "			m		
<u>U. ferruginea</u>	" "		f	f	f	
<u>U. filiformis</u>	" "			f		
<u>U. gracilentia</u>	" "		f	m		
<u>U. fuscovaginata</u> var. (plants glaucous)	" "			f		
<u>U. rubra</u>	" "	m	f	m	f	f
<u>U. rupestris</u> (incl. <u>U. angustifolia</u> )	" "	f	a	a	a	f
<u>U. scabra</u>	" "	m	m	m		
<u>U. silvestris</u> (incl. <u>U. affinis</u> )	" "			f		
<u>U. uncinata</u>	" "		m	a	a	
<u>U. viridis</u>	" "	f	f	f		

Hamlin 1959, non U. riparia  
var. affinis Col. ex Clarke; see  
Nootboom 1978



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		WT	ET	WR	SR	ER
SEDGES (58 species) - continued						
<u>U. zotovii</u>	hook grass	f	f	a	a	
<u>U. sp.</u> (ii)(unnamed; aff. <u>U. nervosa</u> )		f		m		
RUSHES (16 species)						
<u>Empodisma minus</u>	wire-rush	a	f	a	a	a
<u>Centrolepis ciliata</u>		f	f	f		f
<u>C. pallida</u>				f		
<u>Juncus antarcticus</u>				f	f	
<u>J. gregiflorus</u>		m	f	m		f
<u>J. novae-zelandiae</u>			f	a	a	a
<u>J. planifolius</u>		f				f
<u>J. pusillus</u>				f		f
<u>Luzula colensoi</u>	woodrush	m	f	m	m	f
<u>L. sp.</u> (i)(unnamed; included in <u>L. chinata</u> as var. <u>patriziana</u> , by Edgar 1966)				f		f
<u>L. migrata</u>	"	m	f	f	a	m
<u>L. dacipiens</u>	"		f			
<u>L. picta</u> s.s.	"	f	f	f		m
<u>L. subclavata</u> ( <u>L. picta</u> var. <u>pallida</u> ) "			f	f		
<u>L. sp.</u> (ii)(unnamed; included in <u>L. rufo-aes</u> var. <u>albicomans</u> , by Edgar 1966)						f
<u>L. sp.</u> (iii)(unnamed; included in <u>L. picta</u> as var. <u>limosa</u> by Edgar 1966)				f		
<u>L. colensoi</u> x <u>L. migrata</u>				f		
ORCHIDS (35 species)						
<u>Acianthus viridis</u> ( <u>Townsendia viridis</u> )				f		
<u>Adenochilus gracilis</u>		f	f	f		
<u>Aporostylis bifolia</u>		f	f	f		f
<u>Caladenia carnea</u> agg.		f	f			
<u>C. lyallii</u>		f	f			
<u>Chiloglottis cornuta</u>		f	m	m	m	
<u>Corybas macranthus</u>	spider orchid		f	f	f	
<u>C. oblongus</u>	" "	f		f		

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## ORCHIDS (35 species) - continued

		WT	ET	WR	SR	ER
<u>Corybas rivularis</u> S.S.	spider orchid	m	f	f		
<u>C. acuminatus</u>	"	f				
<u>C. trilobus</u> S.S.	" "	a	a	a	f	
<u>Dendrobium cunninghamii</u>				f	f	
<u>Earina autumnalis</u>			f	f	f	
<u>E. mucronata</u> S.S.		f	f	f	m	
<u>Gastrodia cunninghamii</u>			f	f		
<u>G. minor</u>			f			
<u>Microtis oligantha</u>			f	f		
<u>M. unifolia</u>						
<u>Orthoceras</u> <del>strictum</del> <sup>novae-zeelandiae</sup>			m	m		
<u>Prasophyllum colensoi</u>		m	f	a	m	a
<u>P. sp. (aff. P. patens)</u>				f	f	
<u>Pterostylis humilis</u>	green-hood orchid	f		f		
<u>P. micromega</u>				f		
<u>P. patens</u>		a	a	a		m
<u>P. cardiostigma</u>						
<u>P. venosa</u>						
<u>P. sp. (unnamed; aff. P. montana)</u>			f	f	m	
<u>Spiranthes sinensis</u>				f		
<u>Thelymitra decora</u>	sun orchid	m	f	m		m
<u>T. formosa</u>	" "		f	f		f
<u>T. hatchii</u>	" "			f		
<u>T. longifolia</u>	" "	m	f			m
<u>T. pauciflora</u>	" "		f	f		
<u>T. pulchella</u>	" "			f		f
<u>T. cyanea</u>	" "	f	f	a		m

## MONOCOT HERBS (excluding grasses, sedges, rushes and orchids) (19 species)

<u>Arthropodium candidum</u>				f		
<u>Astelia fragrans</u>		m	a	a		
<u>A. grandis</u>				a	a	
<u>A. sp. (unnamed; aff. A. nervosa)</u>		a	m	a	a	

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MONOCOT HERBS (excluding grasses, sedges, rushes,  
orchids) - continued

(19 species)

		WT	ET	WR	SR	ER
<u>Astelia solandri</u>				f	f	
<u>Bulbinella hookeri</u>	Maori onion					f
<u>Collospermum microspermum</u>			f	a	f	
<u>Dianella nigra</u>	blueberry		f	f		
<u>Herpolirion novae-zelandiae</u>	grass-lily	m	f	f		
<u>Lemna</u> <sup>sp. (L)</sup> <u>minor</u> <u>avct</u>						f
<u>Libertia ixioides</u>		f	f	f	f	
<u>L. pulchella</u>			f	a	m	
<u>Luzuriaga parviflora</u>		f	f	a	m	
<u>Phormium cookianum</u>	mountain flax	f	m	f		
<u>P. tenax</u>	flax	a	f	a		
<u>P. cookianum</u> x <u>P. tenax</u>						
<u>Potamogeton suboblongus</u>		a	f	m	f	f
<u>Thismia rodwayi</u>		f		f		
<u>Triglochin striata</u>		f	f	f		f
<u>Typha orientalis</u>	raupo	f		f		

## COMPOSITE HERBS (44 species)

<u>Brachycome</u> <sup>S</sup> <u>radicata</u> var. <u>radicata</u>				f		
<u>Celmisia glandulosa</u> var. <u>glandulosa</u> (incl. <u>C. g. var. (atifolia)</u> )	mountain daisy	f	f	f	a	a
<u>C. gracilentata</u> var.	" "	a	m	m	m	m
<u>C. incana</u> (incl. <u>C. discolor</u> )	wolly mountain daisy	f	f	a	f	f
<u>C. sp. (unnamed; aff. C. gracilentata)</u>	mountain daisy	m	f	m	f	f
<u>C. spectabilis</u> var. <u>ssp. spectabilis</u>	" "	a	f	a	m	m
<u>C. gracilentata</u> x <u>C. spectabilis</u>	" "			f		
<u>C. glandulosa</u> x <u>C. sp. (unnamed)</u>				f		
<u>Craspedia minor</u> var. <u>minor</u> (incl. woollyhead, craspedia <u>C. major</u> )			f			f
<u>C. sp. (i)</u> (unnamed; aff. <u>C. uniflora</u> )	" "	a	m	a	m	a
<u>Leptinella pusilla</u>			f			
<u>L. sp. (aff. L. squalida)</u>			f	f		

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## COMPOSITE HERBS (44 species) - continued

		WT	ET	WR	SR	ER
<u>C.</u> sp. (ii) (unnamed; aff. <u>C. uniflora</u> )	Woollyhead, craspedia		f	f		
<u>Gnaphalium delicatum</u>				f		
<u>G. gymnocephalum</u>				f		
<u>G. mackayi</u> s.s.				f		
<u>G. paludosum</u> s.s.			f	f	f	f
<u>G. traversii</u>			f	f		f
<del><u>G. kerianse</u></del> <u>Anaphalis kerianensis</u>			f	m		
<u>A.</u> sp. (i) (unnamed; aff. <u>A. kerianensis</u> )		f	a	m		
<u>G. limosum</u> s.s.		f	m	f		
<u>G. audax</u>		f	m	f		
<u>G. sp. (b)</u> (unnamed; included in <u>G. audax</u> , as ssp. <u>wahinicum</u> by Drury (1972))				f		
<u>G. sp. (c)</u> (unnamed; "Example 3" of Drury 1972) <u>laterale</u>						a
<u>G. sp. (i)</u> (unnamed; aff. <u>G. paludosum</u> )						f
<u>G. sp. (iii)</u> (unnamed; aff. <u>G. limosum</u> )				f		
<u>(Helichrysum bellidioides s.s.)</u>	everlasting daisy	f	f	f		
<u>Anaphalis sp. (ii)</u> $\wedge$						
<u>Helichrysum filicaule</u>		f	f	f		
<u>A. sp. (iii)</u> (unnamed) ( <u>Helichrysum alpinum</u> of Cockayne 1925)		a	f	a	a	a
<u>A. sp. (i)</u> X <u>A. sp.</u>						
<u>Lagenifera cuneata</u>	daisy	m	f	f	f	f
<u>L. strangulata</u>	"	m	a	a	m	
<u>L. pumila</u>	"	m	a	a		f
<u>Leucogenes leontopodium</u> s.s.	North Island edelweiss		f	m	f	
<u>Pseudognaphalium sp.</u> ( <u>Pluteoalbum</u> agg.)		f	m	f		
<u>Microseris scapigera</u>		m	f	f	f	m
<u>Raoulia sp.</u> (unnamed; aff. <u>R. australis</u> )	scabweed		f	f		f
<u>R. glabra</u>				f		
<u>R. grandiflora</u> var. <u>grandiflora</u>		f	f			
<u>R. alboseneca</u>	silver raoulia	a	a	a	a	a
<u>R. tenuicaulis</u> (incl. <u>R. t.</u> var. <u>dimorpha</u> and <u>R. t.</u> var. <u>pusilla</u> )		a	f	a	a	m

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## COMPOSITE HERBS (44 species) - continued

		WT	ET	WR	SR	ER
<u>Senecio glomeratus</u>	fireweed					f
<u>S. hispidulus</u>	"		f			
<u>S. minimus</u>	"	f	m	m	m	
<u>S. rufiglandulosus</u> var. <u>rufiglandulosus</u>				f		
<u>S. wairauensis</u>	fireweed			f		f
<u>Taraxacum magellanicum</u>	native dandelion		f	f		

## DICOT HERBS (excepting composites) (128 species)

<u>Acaena anserinifolia</u>	bidibid	m	f	a	a	m
<u>A. microphylla</u>		f	m	f		
<del><u>A. novae-zelandiae</u> (adventive)</del>	"	f	a			f
<del><u>A. sp. (unnamed)</u> <u>emittens</u></del>	"		f		f	f
<del><u>A. novae-zelandiae</u> x <u>A. microphylla</u></del>	"					
<u>Aciphylla colensoi</u> var. <u>colensoi</u>	Spaniard		f			
<u>A. sp. (unnamed; aff. A. sq. varrosa)</u>	"	m	f	m		m
<u>Anisotome aromatica</u>		a	a	a	a	m
<u>Australina pusilla</u>				f		
<u>Callitriche</u> sp.				f		
<u>Cardamine</u> sp.(i) ( <u>C. debilis</u> agg.) (cf. "Long Style" of Pritchard)	m	a	a	a		
<u>C. sp.(ii)</u> ( <u>C. debilis</u> agg. ("Glossy Leaf" of Pritchard 1957))		f	f			
<u>C. sp.(iii)</u> (aff. <u>C. corymbosa</u> )						
<u>Centella uniflora</u>		f		f		
<u>Colobanthus apetalus</u> (incl. <u>C. a. var. alpinus</u> )		f	f	f		
<u>Dichondra</u> sp. (cf. <u>D. brevifolia</u> )		f	f	f		
<del><u>Drapetes dieffenbachii</u></del> <u>Kallera dieffenbachii</u>		a	f	m	f	f
<del><u>D. laxus</u></del> <u>Kallera laxa</u>		f		f		f
<u>Drosera arcturi</u>	sun-dew	m	f	m	m	

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		WT	ET	WR	SR	ER
DICOOT HERBS (excepting composites) (128 species) - continued						
<u>Drosera peltata</u> ssp. <u>auriculata</u>	sun-dew		f			
<u>D. binata</u>	" "	f		m	m	a
<u>D. pygmaea</u>	" "		f	f	f	a
<u>D. spathulata</u>	" "	m	a	a	a	a
<u>Epilobium alsinoides</u> s.s.	willow-herb	f	m	f	f	a
<u>E. billardiereanum</u> s.s.	" "	f				
<u>E. atriplicifolium</u> s.s.	" "		a		m	m
<u>E. chionanthum</u>	" "					m
<u>E. chlorifolium</u> s.s.	" "	a	f			
<u>E. cinereum</u>	" "		a			
<u>E. cockayneanum</u>	" "	f		f		f
<u>E. glabellum</u> s.s.	" "	a	f	a	m	
<u>E. hectorii</u> s.s.	" "		m			
<u>E. komarovianum</u>	" "					f
<u>E. macropus</u>	" "	a	f	a	f	
<u>E. nerteroides</u>	" "	f		f		m
<u>E. nummularifolium</u>	" "		f			
<u>E. pallidiflorum</u>	" "			f		f
<u>E. pedunculare</u> s.s.	" "			f		
<u>E. pernitens</u>	" "	a	f	f		
<u>E. pubens</u>	" "		f	f	f	f
<u>E. pycnostachyum</u>	" "				f	
<u>E. rotundifolium</u>	" "		m	f		
<u>E. tenuipes</u> s.s.	" "	a	a			a
<u>E. insulare</u>			f	f		
<u>E. brunnescens</u> s.s.		a	f	a	f	m

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WT ET WR SR ER

## DICOT HERBS (excepting composites) (128 species) - continued

		WT	ET	WR	SR	ER
<u>Epilobium</u> sp.	(unnamed; included in <u>E. brunnescens</u> <u>E. pedunculare</u> as ssp. <u>minutiflorum</u> by Raven and Eng horn, 1971)	a	f	m	a	a
<u>E. alsinoides</u>	x <u>E. atriplicifolium</u>		f			
<u>E. atriplicifolium</u>	x <u>E. cinereum</u>		f			
<u>E. atriplicifolium</u>	x <u>E. tenuipes</u>					f
<u>E. brunnescens</u>	x <u>E. sp. (unnamed)</u>		f			
<u>E. cinereum</u>	x <u>E. tenuipes</u>		f			
<u>Euphrasia cuneata</u>	eye-bright	a	a	a	m	a
<u>E. zelandica</u> agg.	" "	f				
<u>Forstera bidwillii</u> (incl. <u>F. b. var. densifolia</u> )		m	f	m	f	f
<u>Galium parviflorum</u> ss.		f	f	f		
<u>G. propinquum</u>				f		
<u>Gentiana bellidifolia</u> s.s.	gentian	a	a	m	m	a
<u>G. grisebachii</u>	"	f	f	f		
<u>G. montana</u> (incl. <u>G. m. var. stolonifera</u> , <u>G. patula</u> , <u>G. sp. (unnamed)</u> and <u>G. bellidifolia</u> var. <u>pulchella</u> )				f		
<u>Geranium</u> sp. (unnamed; aff. <u>G. microphyllum</u> )		f	f	f		m
<u>G. potentilloides</u> var. <u>potentilloides</u>		m	a	m		
<u>G. sessiliflorum</u> var. <u>novae-zelandiae</u>		m	m			
<u>G. pententilloides</u> x <u>G. sessiliflorum</u>			f			
<u>Geum</u> sp. ( <u>G. parviflorum</u> agg.)		f		f		
<u>Gingidia montana</u>				f		f
<u>Gunnera dentata</u> var. <u>dentata</u>				f		a
<u>G. monoica</u>				f		
<u>G. prorepens</u>		f		f		
<u>Genocarpus aggregatus</u>		a	m	a	m	
<u>G. micranthus</u> ssp. <u>micranthus</u>		a	a	a	m	a
<u>Haloragis erecta</u> ssp. <u>erecta</u>				f		
<u>Hydrocotyle heteromera</u>	pennywort		f	f	m	
<u>H. dissecta</u>	"			f	f	
<u>H. microphylla</u>	"	m	f	f		

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		WT	ET	WR	SR	ER
DICOT HERBS (excepting composites) (128 species) - continued						
<u>Hydrocotyle moschata</u>	pennywort	f	m	f		
<u>H. novae-zealandiae</u> ss.	"	f		f		
<u>H. sp.</u> (unnamed; included in <u>H. novae-zealandiae</u> as var. <u>montana</u> by Kirk (1899) ssp.)		f	m	f		
<u>H. sulcata</u>	pennywort					f
<u>Hypericum japonicum</u> agg.	St John's wort	f	f	f	f	
<u>H. sp.</u> (unnamed)	" " "	f		f		f
<u>Jovellana repens</u>	native calceolaria			f	f	
<u>Limosella lineata</u> agg.					f	f
<u>Liparophyllum gunnii</u>		f	a	m		
<u>Montia fontana</u> ss.		f	f	f		a
<u>Myosotis forsteri</u>	forget-me-not	f	m	f	f	f
<u>M. venosa</u>	" " "			f		
<u>M. sp.</u> (unnamed; included in <u>M. pygmaea</u> , as var. <u>drucei</u> , by Moore (1961))				f		
<u>Myriophyllum pedunculatum</u> ssp. n. 3	milfoil	m	f	a		f
<u>Neopaxia</u> spp. (incl. <u>Montia calycina</u> and <u>Claytonia australasica</u> var. <u>biflora</u> )		f	m	f	m	m
<u>N. sp.</u> (ii) ( <u>N. australasica</u> agg.)		m	f	f	f	f
<u>Nertera balfouriana</u>			f	f	f	f
<u>N. ciliata</u>		m	f	a	m	m
<u>N. depressa</u> (incl. <u>N. cunninghamii</u> )			f			
<u>N. scapanioides</u>				f		
<u>N. setulosa</u>		f	f			
<u>N. sp.</u> (unnamed; aff. <u>N. dichondrifolia</u> )			f	f	f	
<u>Oreomyrrhis colensoi</u> s.s. (incl. <u>O. c.</u> var. <u>hispidula</u> and <u>O. c.</u> var. <u>multifida</u> )		f	f	f		
<u>sp.</u> (unnamed; aff. <u>O.</u> )						
<u>O. ramosa</u>		m	f	f		
<u>Oreostylidium subulatum</u>		m		m		
<u>Ourisia caespitosa</u> ssp. <u>caespitosa</u>		f	f	f		
<u>O. lactea</u> ssp. <u>drucei</u>						
<u>O. macrophylla</u> ssp. <u>robusta</u>						
		} a	f	m	m	f
<u>O. vulcanica</u>		a	f	m	m	m



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WT ET WR SR ER

## DICOT HERBS (excepting composites) (128 species) - continued

O. caespitosa x O. vulcanicaO. lactea x O. macrophyllaO. vulcanica x O. lactea for O. macrophyllaOxalis lactea magellanica

f f f

O. exilis

f f

Parahebe diffusa ssp. diffusa

m f m m f

P. hookeriana s.s.

m a m a f

P. spathulata

m f f a

P. diffusa x P. hookerianaPhyllachne colensei var. colensei

f f

Plantago raoulii

plantain

f f

P. triandra s.s.

f f m

P. uniflora

f

Pratia angulata s.s.

m m m a a

Ranunculus carsei <sup>(R. carsei)</sup> cheasemani var. h buttercup

f f f f f

R. glabrifolius

f

R. hirtus s.s. reflexus

bush buttercup

m f m m

R. insignis

buttercup

f f f f f

R. nivicola

"

m f

R. verticillatus (= R. clivalis)

"

f

R. amphitrichus

swamp buttercup

Schizeilema colensei

f f f

S. nitens

f f f f f

S. trifoliolatum

f

Scleranthus uniflorus

f f f

Selliera microphylla

f m

Stackhousia minima

a a f

Stellaria decipiens (incl. S. parviflora)

f f f f

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		WT	ET	WR	SR	ER
DICOT HERBS (excepting composites) (128 species) - continued						
<u>Urtica incisa</u>	nettle		f	f		
<u>Utricularia novae-zelandiae</u>	bladderwort	f	f	f		a
<u>Viola cunninghamii</u>	native violet	m	f	m		f
<u>V. filicaulis</u>	" "	m	f	a	m	
<u>Wahlenbergia albomarginata</u> var. <u>pygmaea</u>	harebell	a	a	a	a	a
<u>W. colensoi</u>	"		f			
<u>W. rupestris</u>	"					f

## UNCONFIRMED RECORDS

The following records of plants from the Park have not been confirmed; most of them appear to be based on misidentifications. Of the taxa listed below, not more than 20 are considered likely to be found within the Park.

RECORD	PROBABLE IDENTITY OF PLANT ON WHICH RECORD BASED
<u>Aciphylla glaucescens</u> (Oliver 1956) <del><u>A. squarrosa</u></del> (Cheeseman 1925, Oliver 1956) <u>Alseuosmia macrophylla</u> (Cockayne 1908, Butler 1968)	} <u>Aciphylla</u> sp. (unnamed) <u>A. pusilla</u> and/or <u>A. turneri</u>
<u>A. quercifolia</u> (Turner 1909, Cockayne 1928 p. 268)	<u>A. pusilla</u> and/or <u>A. turneri</u>
<u>Asplenium lyallii</u> (Turner 1909, as <u>A. lucidum</u> var. <u>anomodum</u> ) <u>Astelia nervosa</u> (Cockayne 1908) * <del><u>A. rhytidifolia</u></del> (Cockayne 1908, Cheeseman 1925) [confirmed]	<u>A. fragrans</u> and/or <u>A. sp.</u> (unnamed)
✓ <u>Hymenophyllum nigrum</u> (Turner 1909) [confirmed] <del><u>Lomaria nigra</u></del>	
<u>Carex flaviformis</u> (Cook 1953, as <u>C. oederi</u> var. <u>cataractae</u> )	
✓ <u>C. pyrenaica</u> var. <u>cephalotes</u> (Cockayne 1908 and Cheeseman 1925, as <u>C. pyrenaica</u> ) [confirmed]	
<u>C. ternaria</u> (Cockayne 1908)	<u>C. coriacea</u> , and possibly other spp.
<u>Celmisia graminifolia</u> (Turner 1909, as <u>C. longifolia</u> var. <u>graminifolia</u> )	<u>C. sp.</u> (unnamed)
✓ <u>Gentrolepis pallida</u> (Cockayne 1908, Moore and Edgar 1970; Cheeseman 1925, as <u>Gaimardia pallida</u> ) [confirmed]	
<u>Chalanthus distans</u> (Field 1890) <u>Chionochloa conspicua</u> ssp. <u>cunninghamii</u> (Cockayne 1908, as <u>Danthonia cunninghamii</u> )	<u>C. pallens</u>
<u>C. rigida</u> (Cockayne 1908, and Turner 1909, as <u>Danthonia raoulii</u> )	<u>C. rubra</u>
<u>Coprosma cuneata</u> (Cockayne 1908, Turner 1909)	<u>C. pseudocuneata</u>

\*  
Turner 1909; Schweinfurth 1966; Butler 1968; Cheeseman 1925, as A. cockaynei)

- Coprosma depressa (Cockayne 1908, Turner 1909, Cheeseman 1925) C. cheesemanii s.s.
- C. parviflora (Cockayne 1908, Turner 1909) C. sp. (unnamed)
- C. repens (Cockayne 1908, Cheeseman 1925, Schweinfurth 1966)  
C. grandifolia X C. tenuifolia (Du Rietz 1930)  
Craspedia robusta (Cockayne 1908, as C. uniflora var. robusta) C. sp. (ii) (unnamed)
- C. uniflora (Turner 1909, p. 3, Butler 1968)  
(Leptosperma intermedium)  
Dacrydium intermedium (Turner 1909, Cockayne 1928, p. 268) C. sp. (i) (unnamed)
- Euphrasia revoluta (Cockayne 1908, Cheeseman 1925)
- Gaultheria depressa (Turner 1909, as G. antipoda var. depressa; Schweinfurth 1966) G. sp. (unnamed)
- G. rupestris (Cockayne 1908, Turner 1909, Schweinfurth 1966) G. colensoi
- Hebe salicifolia (Cockayne 1908 and Turner 1909, as Veronica salicifolia; Schweinfurth 1966) H. stricta var. stricta
- "Helichrysum alpinum nomen nudum (Cockayne 1928, p. 283) Anaphalis  
H. sp. (unnamed)
- "Hypolepis rugulosa nomen nudum (Butler 1968)  
Melicetylus sp. (unnamed) (Turner 1909, Aston 1911, and Cheeseman 1925, as Hym. dentata var. angustifolia; Butler 1968)  
Hymenanthera sp. (unnamed) H. rufo-barbata
- M. crassifolia (Aston 1911, as Hym. crass.) M. alpinus
- Hymenophyllum atrovirens (Turner 1909)
- Lycopodium deuterodensum (Gibbs 1966)
- Myriophyllum votschii (Cockayne 1908) M. pedunculatum
- Nertera dichondrifolia (Cockayne 1908) N. sp. (unnamed)
- Nothofagus truncata (Cockayne 1908, as N. fusca var. colensoi)
- Lagenifera petiolata (Cockayne 1908) L. strangulata
- Ixerba brexioides (Butler 1968)

Olearia ilicifolia ("Type locality :  
Mount Tongariro" - Allan 1961)

Oreobolus impar (Edgar 1964, based as  
specimens collected by Cockayne)

O. strictus (Cheeseman, 1906 and 1925)

O. strictus (Cockayne 1908)

Ourisia colensoi (Cockayne 1908,  
Turner 1909, Cheeseman 1925)

O. colensoi (Gibbs 1966)

Pittosporum rigidum (Cockayne 1908,  
Cheeseman 1925)

O. pectinatus

O. vulcanica

O. lactea?

P. anomalum and/or P. divaricatum

Poa kirkii (Turner 1909)

Polystichum cystostegia (Cockayne 1908,  
Cheeseman 1925)

Potamogeton cheesemanii (Aston 1911)

Gnaphalium

Prasophyllum nudum (Aston 1911, as  
P. rufum)

Pterostylis tristis (Hatch 1949, as P. mutica)

Rubus australis (Cockayne 1908)

R. cissoides var.

Brachyotia kirkii

~~Brachyotia kirkii~~ (Turner 1909, as Senecio kirkii)

Trisetum antarcticum (Cockayne 1908)

T. sp. (unnamed)

T. youngii (Cockayne 1908, Aston 1911,  
Cheeseman 1925)

U. leptostachya (Cockayne 1908)

U. distans and/or U. scabra

U. strictissima (Cockayne 1908,  
as U. rigida)

Zoysia minima (Type locality: Mount Tongariro - Colenso 1890, as  
Gaimardia minima)

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ADDITIONAL NOTES ON PARTICULAR SPECIES

by A. P. Druce

1. Nothofagus solandri var. cliffortioides. Plants at lower altitudes in WR and SR approach N.s. var. solandri.
2. Pittosporum tenuifolium ssp. tenuifolium. Many plants in ET have features of both P.t. ssp. tenuifolium and P.t. ssp. colensoi.
3. Pseudopanax simplex. Forms corresponding to both P. simplex var. simplex and P. simplex var. sinclairii are present.
4. Cassinia vauvilliersii. A range of forms is present. At one extreme the leaves are small (c. 4 mm long), at the other larger (c. 7 mm long). In general plants at high altitudes tend to have larger leaves than do those at low altitudes.
5. Pimelea suteri var. Plants in ET and WT have hairs on the leaves; those in WR (corresponding to Petrie's P. laevigata var. monticola) do not, except that a few hairs may be present on the leaf tips at the bud stage.
6. Poa <sup>cita</sup> ~~sp. (P. laevigata)~~. A range of forms is present. Fine-leaved plants - usually rough when run between the fingers - predominate in ER, coarser-leaved plants - smooth to the touch - elsewhere. Hybridisation with P. anceps var., particularly in ET, is a further factor to be considered in understanding the variation in this species within the Park.
7. Carex coriacea. Other species of Section Acutae may be present as well. Both C. geminata and C. lessoniana have been recorded from just outside the Park.
8. Schoenus pauciflorus <sup>agg. Arbust sp. (unnamed)</sup> Robust forms predominate at higher altitudes; slender forms at lower altitudes.  
sp. (= S.p. ss)

## REFERENCES

- Allan, H.H. 1961: "Flora of New Zealand", Vol. 1. Government Printer, Wellington. 1085pp.
- Aston, B.C. 1911: List of Phanerogamic Plants Indigenous in the Wellington Province. Trans. N.Z. Inst. 43: 225-47.
- Brownsey, P.I. 1977: Asplenium hybrids in the New Zealand flora. N.Z. J. Bot. 15: 601-37.
- ~~Burnows, C.J. 1962. Studies in Pimelea. II. Taxonomy of some mountain species. Trans. Roy. Soc. Bot. 1(16): 217-223.~~
- Butler, L.W. 1968: Ohakune Trip, 20-29/1/1968. Auckl. Bot. Soc. Newsl. 25(2): 3-11.
- Cheeseman, T.F. 1906: "Manual of the New Zealand Flora". 1st ed. Government Printer, Wellington. 1199 pp.
- \_\_\_\_\_ 1925: "Manual of the New Zealand Flora". 2nd ed. Government Printer, Wellington. 1163 pp.
- Cockayne, L. 1908: "Report on a Botanical Survey of the Tongariro National Park". New Zealand Department of Lands. 42 pp.
- \_\_\_\_\_ 1928: "The Vegetation of New Zealand". 2nd ed. Die Vegetation der Erde Bd 14. Verlag W. Engelmann, Leipzig. 456pp.
- Colenso, W. 1890: A description of some newly-discovered phaenogamic plants, being a further contribution towards the making-known the botany of New Zealand. Trans N.Z. Inst. 22: 459-93.
- Cook, V.J. 1953: Additions to and Notes on N.Z. Scirpus and Carex Trans. R.S.N.Z. 81: 157-64.
- Drury, D.G. 1972: The cluster and solitary-headed cudweeds native to New Zealand: (Guaphalium Section Euchiton - Compositae) N.Z. J. Bot. 10: 112-79.
- Du Roi, G.E. 1930: Sart. Sven. Bot. Tidsk. 24.
- Edgar, E. 1964: Leaf characters and a New Species in Creobolus (Cyperaceae). N.Z. J. Bot. 2: 454-8.
- \_\_\_\_\_ 1966: Luzula in New Zealand. Ibid. 4: 159-84.

Field, H.C. 1890: "The Ferns of New Zealand and its Immediate Dependencies".

Willis, Wanganui, New Zealand.

Nootboom, H.P. 1978: A taxonomic revision of the Malaysian and Australian species of Uncinia (Cyperaceae). Blumea 24: 511-20.

Franklin, D.A. 1962: The Ericaceae in New Zealand (Gaultheria and Pernettya). Trans. R. Soc. N.Z. Bot. 1: 155-75.

Gibbs, J.G. 1966: Studies of the Importance of Plant Species in Vegetation, (1) Above Timber-line on North-west Slopes adjoining Bruce Road, Mt. Ruapehu, Tongariro National Park. Tuatara 14: 19-29.

Hamlin, B. 1959: A Revision of the genus Uncinia (Cyperaceae-Caricoideae) in New Zealand. Bull. Dom. Mus., Wellington 19: 1-106.

Hatch, E.D. 1949: The New Zealand Forms of Pterostylis R. Br. Trans. R.S.N.Z. 77: 234-49.

Kirk, T. 1899: "The Students' Flora of New Zealand". Government Printer, Wellington. 408 pp.

Moore, L.B. 1961: Boraginaceae, Hebe (except Whipcord spp.). Pp. 806-33, 885-952 in "Flora of New Zealand". Government Printer, Wellington. Vol. 1. 1685 pp.

Pritchard, G.G. 1957: Experimental taxonomic studies on species of Cardamine Linn. in New Zealand. Trans. R. Soc. NZ. 85: 75-89.

Raven, P.H.; Engelman, T. 1971: New Taxa and New Combinations in Australasian Epilobium (Onagraceae). N.Z. J. Bot. 9: 345-50.

Schweinfurth, U. 1966: Neuseeland: Beobachtungen und Studien zur Pflanzengeographie und Ökologie der antipodischen Inselgruppe. Bonner Geographische Abhandlungen Series 36.

Turner, E.P. 1909: "Report on a Botanical Investigation of the Higher Waimarino District". New Zealand Department of Lands. 14 pp.

Zotov, V.D. 1965: Grasses of the Subantarctic Islands of the New Zealand Region. Rec. Dom. Mus. Wellington 5: 101-46.

Oliver, W.R.B. 1956: The genus Aciphylla. Trans. R. Soc. NZ. 84: 1-18.