1915. NEW ZEALAND

DEPARTMENT OF LANDS AND SURVEY:

SCENERY-PRESERVATION.

REPORT FOR THE YEAR ENDED 31ST MARCH, 1915: TOGETHER WITH STATEMENT OF ACCOUNTS AND SCHEDULE OF LANDS ACQUIRED AND RESERVED DURING THE YEAR UNDER THE SCENERY PRESERVATION ACTS.

Presented to both Houses of the General Assembly pursuant to Section 17 of the Scenery Preservation Act, 1908

Str,--

Department of Lands and Survey, Wellington, 1st June, 1915.

I have the honour to submit herewith report on scenery-preservation for the twelve months ended the 31st March, 1915.

Regarding the question of scenery-preservation generally in this my last annual report, I would like to impress upon all concerned the necessity, wherever opportunity offers, of securing while they exist as many as possible of the few remaining beauty spots of the Dominion, if for nothing else than preserving for the generations who follow a few samples of the primeval scenery that existed in the country at the advent of European occupation. Much has and is being done by willing helpers, and the State has given liberal encouragement financially and otherwise, but, notwithstanding this, more assistance would be welcomed.

I have, &c.,

JAMES MACKENZIE,

The Right Hon. W. F. Massey, P.C., Minister in Charge of Scenery-preservation. Under-Secretary for Lands.

REPORT.

In accordance with the provisions of the Scenery Preservation Act, 1908, the question of scenery-preservation has been kept steadily in view, and, when a suitable opportunity offered, areas of land, whether Crown or private, were set apart under the Act. During the twelve months ended 31st March, 1915, sixty-seven reserves, of a total area of 60,303 acres, were so set apart; but the reservation was cancelled over areas totalling 638 acres previously proclaimed, but, through destruction of the forest thereon, proved to be unsuitable for permanent reservation. The net area reserved, therefore, together with that set apart up to the end of March, 1914, now amounts to 430 reserves, of a total area of 274,061 acres.

In the majority of cases the lands set apart were Crown lands that had not been dealt with. In a few cases small areas of Native lands have been acquired under the Public Works Act, as was also done in the case of some private freehold lands desired for scenic and historic reservation. It may here be noted that no land can be reserved for scenic purposes until its reservation has been recommended by the Scenery Preservation Board, consisting of the Surveyor-General (Chairman); the General Manager of the Department of Tourist and Health Resorts; the Under-Secretary, Native Department; and the Commissioner of Crown Lands for the district in which is situated the land proposed to be dealt with. Before submitting any recommendation the Board has a most careful inspection made of the lands brought under its notice, and the Board's recommendation is then considered by the Government prior to His Excellency the Governor proclaiming the land under the Act. It will thus be seen that every care is taken to ensure that only suitable lands are reserved, and that the interests of land-settlement, of the Natives, and the country generally are respected and safeguarded.

RESERVATIONS DURING THE YEAR.

As will be seen by a glance at the schedule appearing in Appendix A of this report, the reserves made include areas situated in all parts of the Dominion.

In the Auckland District the beautiful Waiharakeke Inlet, situated in the Kawhia Harbour, was taken and set apart, as was also the Ngahuinga Bluff, near the mouth of the Marakopa River, south of the Kawhia Harbour, and a most curious natural tunnel in the same district. On account of its historic associations, the land on which was situated the Ruapekapeka Pa, not far from the Bay of Islands, was also secured and reserved.

In the Hawke's Bay District the only land reserved during the year is that on which is situated the Mangatutu Thermal Springs, in the Pohui district.

In the Taranaki District several small areas adjoining the Wanganui River were reserved, and fine section of bush land on the Whangamomona Saddle was set apart

a fine section of bush land on the Whangamomona Saddle was set apart.

In the Wellington District a beautiful bush area at the Township of Rangataua, on the Main Trunk Railway, was reserved, and on the road from Awahuri to Feilding the well-known Riddiford's Bush was finally secured and reserved. An area of steep bush-clad land at the Makatote Gorge, also situated on the Main Trunk Railway, was added to the existing reservation, and a few small areas on the Wanganui River were acquired.

In the Marlborough Sounds three small islands at Tennyson Inlet were reserved.

In the Nelson District several areas of hilly Crown land covered with mixed bush were reserved, amongst them being Okiwi Bay near the Croixelles, the Huia Cave near Tadmor, not far from the Midland Railway route, and some fine mountain scenery in the Motupiko district, on the St. Arnaud Range

In the Westland District the magnificent Franz Josef Glacier and surrounding lands, comprising nearly 50,000 acres, was permanently reserved for scenic purposes; and several areas along the Punakaiki, Waiho, and Atupau Rivers.

In the Canterbury District two pretty scenic areas in the Four Peaks Settlement near Geraldine, and a similar area on the Claremont Settlement near Timaru, were reserved, whilst six additional areas were added to that well-known chain of reserves along the Summit Road (or King Edward VII Drive), extending from the hills at the back of Lyttelton, around Governor's Bay, and towards Banks Peninsula. A special report upon these reserves appears in Appendix D.

In the Otago District three small areas along the McLennan River, Catlins district, together with Table Hill, in the Clutha district, and areas along the Glenomaru and Tahakopa Streams, were reserved.

In the Southland District an area of hilly country known as "Glen Allen," near Kingston, Lake Wakatipu, together with two areas in Stewart Island, were also added to the permanent scenic assets of the Dominion.

SUPERVISION OF SCENIC RESERVES.

The chief difficulty which confronts the Department in dealing with areas reserved for scenic purposes is in ensuring their continuance in a state of nature, so that their botanical wealth and beautiful flora are not detrimentally affected or destroyed by the spread of fires, vandalism, or accident. A constant endeavour is being made to ensure the co-operation of local residents. Where a suitable opportunity offers, Scenic Boards, comprised of residents who are willing to look after the reserves in their locality, are set up, and adequate powers entrusted to them to provide for the maintenance of the reserves, and improvement where necessary. Where, owing to the sparseness of settlement, this is not possible, honorary inspectors may be appointed, and wherever possible periodical visits are made by Government officers whose duties take them to the locality.

It is difficult to overestimate the value of these scenic reserves for future generations. Great credit is due to those men who in the past have assisted the Government, or are at the present time endeavouring to assist it, in acquiring and preserving good specimens of our forest inheritance. The unfortunate prevalence of bush-fires is a continual menace to the greater number of the scenic reserves, but it is gratifying to record that the damage suffered has hitherto been comparatively small.

EXPENDITURE.

The expenditure during the year amounted to £7,887 3s. 10d., as set forth in the statement of accounts appearing in Appendix A.

Every care has been taken to expend the funds of the scenery-preservation vote to the utmost advantage, and no land has been recommended for reservation until it has been carefully viewed and reported upon, and every precaution taken that the interests of settlement are not detrimentally

affected, but that the land is well worthy of preservation on account of its picturesqueness, and calculated to remain a permanent asset to the scenic beauty of the Dominion.

Comparison of Expenditure.

Year.	Compensation for Land.	Fencing and Maintenance.	Surveys, Valuations, &c.	$\begin{array}{c} \textbf{Board's} \\ \textbf{Expenses}. \end{array}$	Salaries.	Total.
	£	£	£	£	£	£
9045	 216	Nil	52	1,822	*	2,090
905–6	 3,336	,,	527	1,221	*	5,084
906–7	 7,856	304	801	185	*	9,146
907-8	 4,286	382	555	86	175	5,484
908-9	 3,813	1,063	540	24	325	5,765
909-10	 1,688	1,159	2,603	\mathbf{Nil}	325	5,775
910-11	 1,066	685	1,643	11	325	3,730
911-12	 2,619	715	2,237	22	345	5,938
912–13	 12,997	798	2,697	6	345	16,843
913-14	 10,467	627	1,547	3	365	13,009
91415	 6,253	758	476	12	388	7,887
	 Grand t	otal				80,751

* Included in Board's expenses.

APPENDICES.

Attached to this report are the following appendices:-

- A. Schedule of reserves made during the year, accompanied by a statement of accounts.
- B. Report of the Inspector of Scenic Reserves.
 Report of the Caretaker of Reserves in Queen Charlotte Sound.
- C. Report of the Scenery Preservation Board. Report of Summit Road Scenic Board.

D. Report on Christchurch scenic reserves.

A perusal thereof will show that the provisions of the Act have been carried out in a very satisfactory manner.

APPENDICES.

APPENDIX A.

RESERVES MADE IN 1914-15 UNDER THE SCENERY PRESERVATION ACT, 1908, AND ITS AMENDMENTS

Recommend- ation No.	Local Name.			Description.	Are	8.	Date of Proclamation in Gazette.	
				Auckland Land District.	А.	R.	Р.	1914.
2	Ngahuinga Bluff	• •		Part Marakopa No. 4, Block X, Kawhia South S.D.	128	0	24	30 April.
333	Kakepuku Mountain			Section 1A, Block IX, Puniu S.D	210	3	3	25 June.
192	Waiharakeke Inlet			Section 8, Block II, Kawhia South S.D	16	2	0) , , ,
366	,,			Section 13, Block XIV, Kawhia North S.D.	5	1	24	13 Aug.
365	Hukatere			Section 17, Block II, Hukatere S.D	73	1	37	ĺΪ
368	Te Wai-o-te Marama	••	•••	Eastern Part Section 25, Block IX, Waoku S.D.	34	3	13	3 Sept.
331	Ruapekapeka Pa		••	Part Section 32, Ruapekapeka Parish, Block I, Hukerenui S.D.	1	0	9	
69	,,	••		Part of Huiarau Block, Block I, Hukerenui S.D.	5	2	19	26 Nov.
			ſ	Part Subdivision 2 of Section 3, Block XII, Kawhia South S.D.	21	0	5	
81	Marakopa Natural T	unnel	{	Part Section 5 of subdivision of part Taumatatotara Block, Block XI, Kawhia South S.D.	84	3	35	17 Dec.
					581	3	9	1

APPENDIX A—continued.

RESERVES MADE IN 1914-15 UNDER THE SCENERY PRESERVATION ACT, 1908, ETC.—continued

Recommend- ation No.	Local Name.		Description,	Area.	Date of Proclamation in Gazette.
	M- a-t-t- Th		Hawke's Bay Land District.	A. R. P.	1914.
361	Mangatutu Thermal Sprir 	ıgs	Section 1, Block V, Pohui S.D	28 2 4	20 Aug.
	•		Taranaki Land District.		
$\frac{394}{387}$	Whangamomona Saddle Piopiotea	• •	Section 19, Block I, Mahoe S.D Section 6, Block II, Piopiotea West S.D.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	19 Nov. 1915.
387	,,		Section 7, Block III, Piopiotea West S.D.	25 0 0	
$\frac{387}{387}$,,		Section 8, Block III, Piopiotea West S.D. Section 9, Block III, Piopiotea West S.D.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	7 Jan.
387	,,		Section 2, Block IV, Piopiotea West S.D	11 3 0	
$\frac{387}{388}$,, Aukopae		Section 5, Block IV, Piopiotea West S.D Section 12, Block XVI, Ohura S.D	$\begin{array}{cccc} 4 & 2 & 0 \\ 23 & 0 & 0 \end{array}$	
388	,,		Section 13, Block XVI, Ohura S.D	34 0 0	>21 Jan.
388	,,	• •	Section 1, Block IV, Heao S.D	106 3 0 60 2 0	K
900	Onethe		Books On the Division Division III and G.D.	11 0 0	11 M
386	Opatu	••	Parts Opatu Block, Block VII, Heao S.D.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	>11 Mar.
			Į .	134 2 0)
				1,230 2 0	
			Wellington Land District.		- 1914.
302	Rangataua		Section 45, Block V, Karioi S.D	144 1 18	28 May.
155	Makahau		Part Section CCLXXV, Rangitikei R.D., Block X, Wangaehu S.D.	19 1 30.8	4 June.
315	Riddiford's Bush		Part Section 149, Township of Sandon,	15 1 30	30 July.
316	Atene		Block XIV, Oroua S.D. Portion Tauakira 2n No. 2 Block, Block III,	5 2 0	10 Sept.
344	Mangaweka		Waipakura S.D. Section 55, Block X, Hautapu S.D.	99 0 23	12 Nov.
35	Makatote Gorge	• • • • • • • • • • • • • • • • • • • •	Sections 9 and 12, Block VIII, Manganui	208 2 7	26 ,,
340	Ohoutahi :		S.D. Part Ohoutahi Block, Block XIV, Rarete		
		• • •	S.D.—	09 9 05	
			Part Subdivision No. 1A Part Subdivision No. 2	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	26 Nov.
			Part Subdivision No. 1B	0 3 35	إل
				561 3 28-3	3
	l		Marlborough Land District.		-1
352	Tarakaipa Island	• •	Section 5, Block VII, Tennyson S.D	90 0 0	1) 05 1
352 352	Tawhitinui Islands	• • •	Section 6, Block VII, Tennyson S.D Section 7, Block VII, Tennyson S. D	$\begin{bmatrix} 54 & 0 & 0 \\ 3 & 0 & 0 \end{bmatrix}$	25 June.
	,			ļ	- ^
				147 0 0	_
970	ı Dileileimus a		Nelson Land District.	1 150 0 90	13
378 380	Pikikiruna Dee Creek	••	Sections 5 and 6, Block XI, Takaka S.D Section 36, Block V, Inangahua S.D	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11
377	St. Arnaud	••	Section 18, Block XIV, Motupiko S.D	2,270 0 0	
377 376	Okiwi Bay		Section 3, Block XIII, Motupiko S.D Section 23, Block X, Wangamoa S.D	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	24 Sept.
375	Anatoki		Section 7, Block VIII, Waitapu S.D	175 0 0	
381 383	Huia Cave Tokomoana	• • •	Section 22, Block X, Tadmor S.D Section 9, Block V, Kongahu S.D	57 0 0 8 3 0	
384	Hiwinui	• • • • • • • • • • • • • • • • • • • •	Section 6, Block IV, Kongahu S.D.	31 3 0]]
382	Oparara	• •	Section 22, Block XIV, Oparara S.D.	20 0 32	1 Oct.
37 9	Ururakau	••	Section 2, Block I, Section 7, Block IV, Maungatapu S.D.	1,200 0 0	22 ,,
				4,783 0 5	-
	(Westland Tourist District	-,	-
	1		Westland Land District.		13
357	Punakaiki		Section 966, Block I. Punakaiki S.D.	53 0 0	1 1
357 357	Punakaiki		Section 966, Block I, Punakaiki S.D Section 967, Block I, Punakaiki S.D	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$\begin{array}{c} 357 \\ 357 \end{array}$	1		Section 967, Block I, Punakaiki S.D Section 968, Block II, Punakaiki S.D	134 2 0 58 0 0	
357 357 357	,,	•••	Section 967, Block I, Punakaiki S.D. Section 968, Block II, Punakaiki S.D. Section 969, Block I, Punakaiki S.D.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	20 4110
$\begin{array}{c} 357 \\ 357 \end{array}$	" · · · · · · · · · · · · · · · · · · ·	••	Section 967, Block I, Punakaiki S.D. Section 968, Block II, Punakaiki S.D. Section 969, Block I, Punakaiki S.D. Section 970, Block I, Punakaiki S.D.	134 2 0 58 0 0	20 Aug.
357 357 357 357 359 359	Waiho and Atupau River	••	Section 967, Block I, Punakaiki S.D. Section 968, Block II, Punakaiki S.D. Section 969, Block I, Punakaiki S.D. Section 970, Block I, Punakaiki S.D. Reserve 1020, Block VII, Waiho S.D. Reserve 1369, Block VII, Waiho S.D.	134 2 0 58 0 0 19 2 35 48 0 0 129 0 0 46 2 8	20 Aug.
357 357 357 357 359	" · · · · · · · · · · · · · · · · · · ·	 	Section 967, Block I, Punakaiki S.D. Section 968, Block II, Punakaiki S.D. Section 969, Block I, Punakaiki S.D. Section 970, Block I, Punakaiki S.D. Reserve 1020, Block VII, Waiho S.D. Reserve 1369, Block VII, Waiho S.D. Reserve 1461, Waiho, Waitangi-taona, and	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	20 Aug.
357 357 357 357 359 359	Waiho and Atupau River	 rs	Section 967, Block I, Punakaiki S.D. Section 968, Block II, Punakaiki S.D. Section 969, Block I, Punakaiki S.D. Section 970, Block I, Punakaiki S.D. Reserve 1020, Block VII, Waiho S.D. Reserve 1369, Block VII, Waiho S.D.	134 2 0 58 0 0 19 2 35 48 0 0 129 0 0 46 2 8	20 Aug.

APPENDIX A-continued.

Reserves made in 1914-15 under the Scenery Preservation Act, 1908, etc.—continued.

Recommend- ation No.	Local Name.	Description.	Area	Date of Proclamation in Gazette.	
349 349 350 346 346 347 351 348	Hae-Hae-te-Moana Claremont Ahuriri Bush (Summit Road) Gravenor Bush (Summit Road) Cass Peak (Summit Road)	Canterbury Land District. Reserve 3883, Block XV, Four Peaks S.D. Reserve 3884, Block XV, Four Peaks S.D. Reserve 3891, Block III, Otaio S.D. Reserve 3950, Block VII, Halswell S.D. Reserve 3948, Block VII, Halswell S.D. Reserve 3954, Block VII, Halswell S.D. Reserve 3954, Block XII, Halswell S.D. Reserve 3951, Block VII, Halswell S.D.	A. 86 41 44 2 36 26 11 6	R. P. 0 0 0 5 3 10 3 36 3 0 3 28 3 25 3 32	1914. 28 May. 23 July. 27 Aug. 20 Aug.
360	Kennedy's Bush Extension	Reserve 3956, Block III, Halswell S.D	28 286	0 5	27 Aug.
		Otago Land District.			.5
278 279 279 355 356	McLennan River Table Hill Glenomaru Stream Tahakopa River	Part Section 2, Block IX, Woodland S.D Part Section 3, Block V, Woodland S.D Part Section 27, Block VI, Woodland S.D. Sections 40 and 41, Block X, Glenomaru S.D. Section 23, Block IV, Tautuku S.D.	$ \begin{cases} 5 \\ 7 \\ 6 \\ 42 \\ 92 \\ 331 \\ 209 \end{cases} $	3 6 0 12 3 23 3 15 1 25 0 14 1 28	18 June. 2 July. 3 Sept.
			695	2 3	
* 364 363 363	Kaipipi Ta-Kere-Haka Glen Allen	Southland Land District. Section 1, Block XIII, Paterson S.D. Section 1, Block XV, Paterson S.D. Section 1, Block X, Kingston S.D. Sections 2, Block V, and 2, Block X, Kingston S.D.	20 91 418 2,470 3,000	0 0 3 27 0 0 2 27	30 July. 20 Aug.

^{*} Previous Land Act reservation.

REVOCATION OF RESERVATIONS.

Recommend- ation No.	Local Name.	Description.	Area.	Date of Proclamation in Gazette.		
			A, R, P.	1914.		
133	Pukekura	Part Scenic Reserve 1190, Block XV, Waitaha S.D. (Westland)	1 0 0	30 July.		
*		Part Reserve 11, Block XVI, Howard S.D. (Nelson)	135 0 0	3 Sept. 1915.		
*		Part Scenic Reserve 638, Block XIII, Hohonu S.D. (Westland)	489 0 26	21 Jan.		
*	••	Part Scenic Reserve 638, Block XIII, Hohonu S.D. (Westland)	12 3 14	J		
		AND AND THE STREET	638 0 0			

^{*} Previous Land Act reservation.

Summary of Reserves.

				0 0		Number.	A	rea.
						Number.	A.	R. P.
$\mathbf{Auckland}$						8	581	3 9
Hawke's Bay						1	2 8	2 4
Taranaki						15	1,230	2 0
Wellington						7	561	$3\ 28.3$
Nelson						10	4,783	0 5
Marlborough				• •		2	147	0 0
Westland						8	48,988	3 3
Canterbury						6	286	0 5
Otago						6	695	2 3
Southland		• •		••		4	3,000	2 14
r	Potala	1914–15		•		67	60,303	2 31.3
Reserved up t			• •	• •	• •	363	214,395	$\frac{2}{3} \frac{31 \cdot 5}{24 \cdot 5}$
neserved up 6	0 3186 1	March, 1914	• •	• •	• •		214,000	0 24.0
						430	274,699	2 15.8
Less reservation	ns rev	oked	• •	**			638	0 0
(Frand 1	totals				430	274,061	2 15.8
'	arwita i	OUGUIS	• •	• •	• •	100	,001	2 100

Rabbiting scenic reserves
Travelling and other expenses

APPENDIX A—continued.

STATEMENT OF	ACCOUNTS,	SHOWING T	тне Ам	OUNTS	EXPENDED,	AND THE	Purposes	то т	WHICH	THE
Money	SO EXPEND	ED HAS BEE	N APPL	IED. FOI	R THE YEA	R ENDED	31st Marc	н. 19	915.	

Vote 113.	£	8.	d.
Item 1.—Salaries	387	15	2
Item 2.—Administration of reserves and historic spots (including fencing and other work)	608	11	7
Item 3.—Compensation, &c., in connection with lands taken under the Scenery Preserva-			
tion Act, 1908	1,495	16	3
Item 4.—Compensation for land acquired for scenic purposes along Wanganui River	542		
Item 5.—Compensation for Native lands taken for scenery purposes (including historic			
spots) under the Public Works Act, 1908, and the Native Land Act, 1909	2,504	5	8
Item 6Contribution towards purchase of scenic reserve, Kaituna, Banks Peninsula	,		
(subsidy, £2 for £1)	69	1	3
Item 7.—Day's Bay Bush, purchase of			
Item 8.—Expenses of Scenery Preservation Board	12	6	6
Item 9.—Government Loans to Local Bodies Account: Payment of capital value,			
land reserved, East Puketoi Loan Block			
Item 10.—Kennedy's Bush: Erection of caretaker's cottage (subsidy, £1 for £1)	150	0	0
Item 11.—Lands for Settlement Account, payment to, for capital value, scenic reserves:			
Four Peaks, £1,205; Claremont, £436	1,641	0	0
Item 12.—Road reserve at Ohura Falls, Wanganui River: Purchase and fencing	,		
Item 13.—Surveys, valuations, and incidental expenses	475	14	4
	£7,887	3	10
Item 2 Administration of Reserves and Historic Spots (including Cost of Fencing and	l other	Worl	k).
j	£	s.	
Salaries of caretakers	104		0
Advertising re penalties of trespass and notices of intention to take land	22	7	6
Eradication of noxious weeds on reserves and historic spots	83	11	1
Providing and upkeep of fences and other works on reserves	264	14	0
Rabbiting scanic reserves	5	0	0

Item 3.—Compensation, &c., for Land taken under Scenery Preservation Act, 1908.

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128 19

£608 11 7

0

Name of Reserve.	Particulars of Block, &c.	Amount.		
McLennan River	Part Sections 3, 5, 7, 8, 9, 10, Block XV, Rimu;	£ 247	s. 15	d. 0
	part Sections 5, 6, 7, Block IX, Woodland Part Section 3, Block II, Horohoro Reserve, Awahuri Road, Feilding	300 771	0 17	0
Makahau	Part Block X, Wangaehu	176		9
		£1,495	16	3

Item 4.—Compensation for Land acquired along the Wanganui River.

Name of Reserve.				Particulars of Block, &c.	Amount.		
Galatea Ranana Koiro	••		• •	Ohotu 5B Block Ahuahu, No. 2 Block Subs. 1-3, Koiro Reserve, Blocks IV, VII, and VIII, Heao	£134 4 403 £542	11 13	d. 8 8 9

APPENDIX A—continued.

STATEMENT OF ACCOUNTS, ETC.—continued.

Item 5.—Compensation for Native Lands acquired for Scenery Purposes under the Public Works Act, 1908.

Name of Reserve.				Particulars of Block, &c.	Amount.			
Mamaku Ohiwaru Waimarino Tongoio Falls Ngatira Hongi's Track Maungamaunu Hangatiki Mokau River				Part Okoheriki 2c No. 3 Block Lot 189, Waiotahi Parish Part Waimarino 4B2 Block Part Purahotangihia Block IV, Puketapu Part Whaiti Kuranui 1a Block Part Rotoiti Nos. 6 and 7 Blocks Part Maungamaunu No. 2 Part Hauturu E No. 1E, Section 5c, &c. Mangoira Blocks 1 and 2		29 6 6 799 3 503	19 1 1 19 19 13 17	10 4 0 3

Item 13.—Cost of Surveys, &c., of Scenic Reserves undertaken during Year 1914-15.

Name of Reserve.	 Particulars of Block, &c.	Amount.		
Otaupea	 Reserve Whitianga 2B 13, 14, 15, 16, and Whiti-	£ 302		d. 11
1	 anga No. 1 Block Section 26, &c., Block VI, Hautapu	23	_	7
Valuations, legal expenses, &c.	 	150	_	10
		£475	14	4

APPENDIX B.

REPORT BY THE INSPECTOR OF SCENIC RESERVES.

During the last year my field-work has consisted of inspections of reserves at Kapiti Island, Paraparaumu, Moonshine Valley, Wanganui River, Wilton's Bush, Waiohine Valley, Ashley-Clinton, and Kauri Gully at Northcote. Owing to the necessity for the exercise of economy at the present time, my travelling on scenic matters has had to be restricted; so I have during the last year been chiefly occupied with office matters, and to a very large extent with afforestation-work; also some of my time has been taken up with sand-dune reclamation-work, and a special inspection of and report on the Waipoua Kauri Forest.

Fires.

Considering the abnormally dry season, not much damage from fires was observed.

The white-pine reserve near Tokatoka was considerably scorched; and the Natives on the Wanganui River had attempted to destroy some of the reserves on the river-banks, but their attempts have not resulted in serious injury.

To revive an interest in the matter, and to remind the public of their liability, notices were on several occasions in the summer put in all the principal newspapers throughout the Dominion, warning people of the penalty for lighting fires or allowing them to spread on the different kinds of State lands. Assistance in stopping this foolish and destructive practice of indiscriminate burning has also been promised by other Departments and some private persons; so there is reason to hope that it will not be long before an improvement is seen.

Native Birds.

It is pleasant to be able to state that in the forests visited by me during the year no decrease was noticed in the number of native birds. Up the Waiohine Valley (which is an interesting and beautiful place that could easily be made accessible to Wellingtonians) bell-birds and tuis are most numerous, as are also fantails, tomtits, and warblers. Pigeons are also fairly numerous.

On Kapiti Island sanctuary, as far as can be judged by the eye, the native birds are well holding their own. Mr. Bennett, the caretaker, says he has seen evidence of the presence of the kiwis that were liberated there two years ago. Endeavours are now being made to obtain for the island specimens of other native birds that are not at present there; but owing to the difficulty of capturing native birds without damaging them no success has so far been met with. In order to augment the food-supply for the birds on the island seeds of hinau, tawa, and miro were sent over to the caretaker, and they have been planted in places where they are likely to get established.

General.

One important matter in connection with the preservation of our scenic reserves that requires attention is fencing. At present, whilst there are such tremendously urgent calls on the public purse this matter cannot be considered, but as soon as funds permit the most important small reserves should be fenced; for if they are going to be a free grazing-ground for stock their eventual destruction is certain, and their reservation has been in vain. Though stock should be excluded from the large reserves as well, the damage they receive is not nearly so serious as in the case of the small reserves.

The appointment of local Inspectors for those reserves in the more populous districts is an innovation that should prove very satisfactory, as would-be offenders are far less likely to commit offences if they know there is some one in the locality who may at any time come upon them. A man always on the spot has also opportunities for getting local residents to take an interest and delight in these

reserves which are set apart for the enjoyment of the public.

The Forest and Bird Protection Society is proving a valuable aid in looking after our various The School Journal is also a valuable auxiliary, as in it are often to be found short articles on and references to the beauties and the value of our forests; and there is no doubt that child readers, acquiring from its pages an appreciation and understanding of the forest, will soon exercise an influence for its protection that probably their parents at present do not.

E. PHILLIPS TURNER, Inspector of Scenic Reserves.

REPORT ON SCENIC RESERVES, QUEEN CHARLOTTE SOUND.

During the greater part of the year just past matters in connection with the above reserves have been of a normal character, though, owing to the exceptionally dry season—the driest this locality has ever experienced—much anxiety has been felt owing to the danger of fires being started in or spreading into the reserves. On two occasions the latter, unfortunately, occurred, and had it not been for a providential fall of rain a few hours after the starting of the fires the damage done must have been infinitely greater than was the case. I cannot too highly commend the care and thoughtfulness shown by the majority of campers and visitors in their carefulness in thoroughly extinguishing their camp fires previous to leaving, and in otherwise showing their appreciation of these beautiful spots. Neither can I condemn too strongly the action of some of the adjoining occupiers in their practice of starting fires adjacent to the reserves, taking no precautions as to spread of same, and altogether showing a total disregard as to the welfare of the reserves.

The number of visitors to the reserves during the past year was above the average, Ship Cove and Kumutoto Bay being the favourite resorts, the others being practically neglected, due chiefly,

I believe, to unsuitable landings or lack of fresh water.

Several of the reserves suffered to quite a noticeable extent from the effects of the severe drought that existed for such an extended period, manuka, rangiora, and large birch trees dying from lack of rain. It is a matter of great congratulation that we have come through such a season with as little damage from fire as has occurred. Once a fire has secured a firm hold on this class of country it is practically impossible to deal with it, owing to the dense and tangled nature of the undergrowth. The amount of dead timber on the ground, and the manner in which the fire burns in under the roots of the standing timber, taken in conjunction with the prevailing steep nature of the country and absence of water, renders fire-fighting an impossibility.

Kaipupu and Kumutoto Reserves were both damaged by fire spreading into them from adjoining lands during the period of drought. In the former case the fire originated on Crown lands some distance from the boundary of the reserve, crossed the dividing-ridge, and crept down hill, destroying some 20 acres of bush; in the latter it started on private property immediately adjoining the boundary, drove across and down country, burning about 6 acres. Had it not been for a timely fall of rain a few hours after the commencement of the fires the two reserves must have suffered considerable damage.

Native birds appear to be holding their own in fair numbers. I have noticed quite a number of pigeons fairly distributed through the whole of the reserves, being particularly numerous in Ship Cove. Ducks are occasionally to be seen along the foreshores, while an odd ground-robin is sometimes to be met with. Blumine Island is the only locality where these friendly little birds are to be seen in any numbers. This I believe is due to the fact that the stoat and weasel have not yet reached there. On one occasion last winter I saw four of the latter on the beach of Kumutoto Bay engaged in a desperate encounter.

During the course of the year I have had to warn several parties against landing on the reserves with firearms. On one occasion while anchored in Ship Cove a party well armed, and accompanied by dogs, put in an appearance. Immediately upon sighting my launch they took a hasty departure. On another occasion I found a party already landed with dogs, and firearms in their possession. These

were duly warned off, and the matter reported to the District Office.

On the 25th December a unique and interesting ceremony was held at Ship Cove, being a religious service in commemoration of the hundredth anniversary of the first sermon preached in New Zealand by the Rev. Samuel Marsden. Unfortunately the elements were not propitious in the earlier part

of the day; consequently the attendance was limited, though appreciative. During the course of the past year I visited the scenic reserves on 142 different occasions, varying

the time of visit from 6 a.m. to 7 p.m., making many excursions to the tops of the ranges, and often anchoring by them for the night. I believe my efforts meet with a fair measure of success, though occasionally I have reason to believe a few irresponsibles do secure an advantage over me. Previous to my taking charge it was the common practice for any one requiring rough timber or firewood to procure it from the reserves; I am pleased to be able to report that this stopped in the first few months of my taking charge

APPENDIX C.

REPORT OF THE SCENERY PRESERVATION BOARD.

During the year ended the 31st March, 1915, the following meetings of the Board were held: On the 18th May, 1914, to deal with lands in the Otago District; on the same date, to deal with lands in the Westland District; on the same date, to deal with lands in the Canterbury District; on the same date, to deal with lands in the Southland District; on the 23rd June, 1914, to deal with lands in the Auckland District; on the 14th July, 1914, to deal with lands in the Wellington District; on the 20th July, 1914, to deal with lands in the Wellington District; on the 20th July, 1914, to deal with lands in the Nelson District; on the 11th August, 1914, to deal with lands in the Taranaki District; on the 9th March, 1915, to deal with lands in the Canterbury District; and on the 29th March, 1915, to deal with lands in the Hawke's Bay District. All of the above meetings were held at the office of the Surveyor-General, Wellington; and the Commissioner of Crown Lands for the district in which were situated the lands dealt with attended the meeting of the Board in each case.

Forty-six recommendations were made by the Board and submitted to His Excellency the Governor for consideration. Many of them have since been given effect to, and others are still being dealt with. As has always been the case, the greatest care has been taken by the Board to ensure that land suitable for settlement is not recommended for reservation except in small areas, and when the circumstances of the case necessitated such action being taken. Mostly, the land recommended comprised hilly forest country more or less remote from centres of population, and not only suitable for scenic reservation, but also valuable for preservation in a state of nature owing to the needs of water-conservation and the prevention of the denudation of the soil. The retention of the majority of the lands reserved greatly benefits agriculture and the pastoral industries by preserving the bush along streams and rivers, and to a large extent preventing their silting up, as it is very essential to retain the natural cover at the headwaters and on the banks of many of the streams of the Dominion so that heavy rainfalls may not bring down soil from the steep hillsides.

Another class of land recommended for reservation is comprised in lands situated near towns and cities, often belonging to private persons, where it is desirable to acquire and retain specimens of the native flora in proximity to centres of population. In many cases assistance to this desirable object is given to the public and local bodies, and every endeavour has been made, where advisable, to preserve suitable and sufficient areas for the benefit of townspeople. Two well-known instances of this may be mentioned, one being the popular Day's Bay bush, situated on Wellington Harbour, where the provisions of the Scenery Preservation Act assisted the Wellington City Council in obtaining a magnificent playground for the people, and the other being areas of land along the Summit Road, from the Port Hills, Lyttelton, towards Banks Peninsula, where the public have for some years past assisted to secure several sites from which magnificent views of the surrounding scenery are obtainable.

Since the formation of the Board under the provisions of the Scenery Preservation Act, 1906, it has submitted four hundred recommendations for the setting-aside of land under the Act; and a glance at the various reserves that have been made in consequence thereof will show that the views and suggestions of the Board have met with most favourable consideration, and have been given effect to as far as has been found practicable.

E. H. Wilmot, Chairman of Board.

REPORT OF SUMMIT ROAD SCENIC BOARD.

The above Board and Kennedy's Bush Board were amalgamated by notification in the New Zealand Gazette dated the 1st October, 1914, the first meeting of the Board being fixed for the 3rd November, 1914.

The area administered by both Boards on the 31st March, 1914, was 208 acres. This area has been increased by 114 acres by gift and exchange, the donors being Messrs. R. M. D. Morten, 37 acres, Ahuriri Bush, and R. H. Rhodes, 7 acres, Cass Peak; Mr. A. E. G. Rhodes paid £50 towards the purchase of 12 acres, Gravenor Bush; 29 acres were purchased from Messrs. McDonald and Gibson; and 39 acres by exchange between the Hon. R. H. Rhodes and the Crown. All these areas have been gazetted as scenic reserves and placed under the control of the Board, the area now totalling 322 acres.

The sum of £24 3s. 6d. has been expended on the fencing-in of Gravenor Bush; and Mr. H. Blyth, of Ata-ahua, has been appointed honorary caretaker. The sum of £59 19s. 2d. has been expended on fencing the Hoon Hay Reserves, which enabled them to be let to bring in some revenue.

All the reserves are securely fenced. The only patch of blackberry in the Ahururi Bush Reserve has been removed. From the Kennedy's Bush Reserve a considerable quantity of elderberry has been cut out, through a kind donation of £10 by the Hon. R. H. Rhodes. All the areas of bush upon the different reserves are in a state of preservation. Bird-life is plentiful. The reserves are regularly visited by the caretaker, who is resident at Kennedy's Bush. Enlarged accommodation was very much needed at Kennedy's Bush to provide for an increasing number of visitors. Through a donation of £100 by Mr. Andrew Fairburn, of Christchurch, on which the Government granted a subsidy of £1 for £1, and a donation of £10 10s. by Mr. A. G. Allom, an accommodation-room has been provided, a large kitchen erected, and the house connected with the drainage system. The growth of noxious weeds is being kept well in hand.

Kennedy's Bush.—Receipts and Expenditure for the Year ended 31st March, 1915.

Dec. 31, 1913. To balance Jan. 1, 1914, to Mar. 31, 1915. Receipts	£ 24 120	11		£ s. d. Jan. 1, 1914, to Mar. 31, 1915. Expenditure 123 19 5 March 31, 1915. Balance 21 1 10
	£145	1	3	£145 1 3

C. R. Pollen, Chairman, Summit Road Scenic Board.

APPENDIX D.

Notes on the Plant Covering of Kennedy's Bush and other Scenic Reserves of the Port Hills (Canterbury), by Dr. L. Cockayne, F.R.S.

Kennedy's Bush is the most important example of that particular class of forest which originally occupied the gullies and hollows of the Port Hills. Although no longer in its virgin condition, the reserve contains examples of probably all the flowering-plants and most of the ferns which formed the primitive forest. It is therefore an important natural museum wherein is saved from destruction a portion of primeval New Zealand which but for its reservation would have vanished, never to be replaced. The number of species of vascular plants, most of which are found only in New Zealand, preserved in this open-air museum is about 119. These belong to no less than forty-three families and seventy-two genera. Using an equally scientific but much more popular classification, there are two kinds of tall trees, nineteen kinds of low trees, some of which are also at times shrubs, seventeen kinds of shrubs, thirteen different climbing-plants, two kinds of woody parasites, fifty-one herbs, including grasses and rushes, and fifteen ferns.

The forests of New Zealand may be classified according to the species of tall trees that are the most abundant, for it is found that associated with these is a fairly uniform combination of smaller trees, shrubs, and ferns. Thus, to mention a few classes, there are kauri, rimu, kahikatea, and southern-beech forests. Kennedy's Bush falls into the category where the totara (Podocarpus totara) and the matai (Podocarpus spicatus) are the dominant tall trees, and to the special form of that class of forest which occupied at one time almost the whole of Banks Peninsula. Amongst the commonest smaller trees, or tall shrubs, are the following: The putaputaweta (Carpodetus serratus), the yellow-wood (Coprosma linariifolia), the New Zealand fuchsia (Fuchsia excorticata), the broadleaf (Griselinia littoralis), the lacebark (Hoheria angustifolia), the white tea-tree (Leptospermum ericoides), the mahoe (Melicytus ramiflorus), the robutu (Myrtus obcordata), the ivy-tree (Nothopanax arboreum), the kaikomako (Pennantia corymbosa), the tarata (Pittosporum eugenioides), the tawhiwhi (Pittosporum tenuifolium), the lancewood (Pseudopanax crassifolium var. unifoliatum), the milk-tree (Paratrophis microphylla), the mapau (Rapanea Urvillei), and the kowhai (Sophora microphylla). Amongst the shrubs are several species of Coprosma, the red-blotched horopito (Drimys colorata), the slender fuchsia (Fuchsia Colensoi), which is also a climbing-plant, the manuka (Leptospermum scoparium) in more than one variety, and Melicope simplex. The woody climbing-plants include several species of lawyer (Rubus), two species of Clematis, two species of Muehlenbeckia, two species of Parsonsia, the supplejack (Rhipogonum scandens), and one climbing-rata (Metrosideros hypericifolia). Owing to the inroad of cattle in the days before the reserve was acquired, ferns are not greatly in evidence, but they should now increase in numbers year by year. There are also various species of mosses, liverworts, and lichens in the forest, but no list of these has been prepared as yet, though they are of quite as great importance from the museum standpoint as their more highly organized relatives.

On the other reserves of the Port Hills, in many places, tussock-grasses dominate. Now, a tussock-covered hillside is an extremely characteristic feature of many New Zealand landscapes; but, equally with the forests, the tussock pastures are being replaced by a plant-covering of greater economic value; indeed, before long, except for such reserves as those on the Port Hills, one of the most remarkable plant-forms of the Dominion would be confined to the distant mountains, and even there, day by day, the tussock is being eradicated. The tussocks of the Port Hills are almost exactly alike in appearance, but they are quite unrelated, one belonging to the genus Poa (P. caespitosa) and the other to the genus Festuca (F. novae-zealandiae). Speaking of the Port Hills in general, the tussocks, through burning and grazing, are being rapidly eradicated and replaced by an indigenous turf-forming grass, Danthonia pilosa. The new plant-association, although dominated by a native species, did not occur in primitive New Zealand, and its presence is entirely due to the unpremeditated act of man. Generally such acts spell disaster, but in this case the sheep-runs of the South Island have benefited to no small degree through the replacement of the tussocks by D. pilosa. However, on the Port Hills reserves the Danthonia, except it be well kept in hand, is an intruder, for the museum standard demands the natural plant covering.

Where rocks occur, on their more shaded faces are two of the most remarkable plants of New Zealand, from the point of view of plant distribution and rarity. One, which would be treasured in any flora, is the extremely beautiful Veronica Lavaudiana. It is absolutely confined to Banks Peninsula, of which the Port Hills form an outlying portion. The other is a species of groundsel (Senecio saxifragoides), possessing extremely large leaves, closely covered beneath with a dense mat of hairs,

It also is a most striking plant. Now, an almost identical species, named Senecio lagopus, also occurs on the main mass of Banks Peninsula, which differs from S. saxifragoides merely in the possession of numerous bristles on the leaf, whereas in the latter such are absent. Yet, so far as is known, S. lagopus does not occur on the Port Hills, nor S. saxifragoides on Banks Peninsula proper. If this is truly a fact the distribution of these two species, each equally well suited to the rock-conditions of the area, is one of the most remarkable cases of plant-distribution in the world. To return to the tussock-association, there are certain plants which demand brief mention: such are the lowly Cotula Haastii, only known elsewhere on the Canterbury Plains and the Awatere Valley, the wild-irishman (Discaria toumatou), the tutu (Coriaria sarmentosa), one of the New Zealand brooms (Carmichaelia subulata) and the speargrass (Aciphylla squarrosa). At the margin of forest or on rocky ground one of the shrubby speedwells (Veronica leiophylla) is common, and, like all its congeners, is a pleasing feature of the vegetation.

There are most of the other species listed below, but not dealt with here, in one or other of the Port Hills reserves, but enough has been said to prove that these latter are open-air museums of no mean order, which, prized as they are at present, will increase greatly in educative value year by year.

PROVISIONAL LIST OF FERNS AND FLOWERING-PLANTS OF THE PORT HILLS.

Species, Family, &c.	Maori Name.	English Name.	Habitat.
FERNS (FILICES).			
Hymenophyllum rarum R. Br		Thin-leaved filmy fern	Forest; recorded by Potts, but probably now extinct.
——— dilatatum Sw		Broad-leaved filmy fern	Forest; recorded by Potts, but probably now extinct.
		Tunbridge filmy fern	Shaded rock; forest.
Trichomanes venosum R. Br	• •	Veined bristle fern	Forest; on tree-fern trunks, but possibly extinct.
Cyathea dealbata Sw	Ponga	Silver tree-fern	Forest.
Dicksonia squarrosa Sw	Weki	Slender tree-fern	Forest; but now perhaps extinct.
Hypolepis tenuifolia Bernh	į	Thin-leaved hypolepis	Forest.
Cheilanthes Sieberi Kunze		Sieber's fern	Rock.
— — tenuifolia Sw		Thin leaved cheilanthes	Rock.
Pellaea rotundifolia Hook		Round leaved fern	Forest, in dry ground.
Pteridium esculentum Cockayne	Rauaruhe	Common bracken	Hillsides, in open.
Histiopteris incisa J. Sm	Matata	Water-fern	Forest.
Blechnum lanceolatum Sturm		Lance-leaved hard fern	Forest.
discolor Keys		Common hard fern	Forest
— capense Schlecht	Kiokio; piu	Long hard fern	Forest; swamp.
fluviatile Lowe	Kiwikiwi	Creek-fern Membrane-leaved fern	Moist rock; forest.
membranaceum Mett			Rock, where plenty of soil.
Asplenium flabellifolium Cav	703A	Drooping-spleenwort Sea spleenwort	Coastal cliff.
	Tuturanga	Sea spleenwort Hooker's spleenwort	Forest, on stony ground.
——— Hookerianum Col	Mauku	Common spleenwort	Forest.
——— bulbiferum Forst. f	1	Drooping-spleenwort	Forest; rock.
flaccidum Forst. f. (several vars.)	Puniu	Prickly shield fern	Forest,
Polystichum vestitum Presl	Tutoki	Black shield-fern	Rock; forest.
——————————————————————————————————————	1 dooki	Hardy-stemmed fern	Forest.
Dryopteris glabella C. Chr.	1	Smooth boss-fern	Forest.
punctata C. Chr		Hairy polypody	Forest.
pennigera C. Chr	Pakauroharoha	Feather-fern	Forest; recorded by Potts.
Polypodium diversifolium Willd	Paretao	Common polypody	Forest; rock,
Nothochlaena distans R. Br		Woolly cloak-fern	Rock.
Gymnogramme rutaefolia Hook. & Grev.		Rue-leaved fern	Rock
——— leptophylla Desv		Jersey fern	Rock.
Leptopteris hymenophylloides Presl	Heruheru	Single crape-fern	Forest,
Ophioglossum coriaceum A. Cunn	• •	Adder's-tongue	Tussock pasture. Tussock pasture.
Botrychium australe R. Br	• •	Moonwort	Tussuck pasture.
FLOWERING - PLANTS (SPER- MOPHYTA).			
TAXACHAE.	m ,		Forest.
Podocarpus totara A. Cunn	Totara	Rhade pino	Forest.
spicatus R. Br	Matai	Black-pine	rotest.
GRAMINEAE.	1	Forest vice gram	Forest.
Microlaena avenacea Hook. f		Forest rice-grass	Forest.
polynoda Hook. f		Long he ired plume grass	Tussock pasture.
Dichelachne crinita Hook, f	•••	Long-haired plume-grass Toothed bent-grass	Tussock pasture.
Calamagrostis Forsteri Steud		Shining oat-grass	Rock.
Trisetum antarcticum Trin.	• •	Common oat-grass	Rock; tussock pasture.
Danthonia semiannularis R. Br. (probably	ļ ··	Committee our Strang	
several varieties)		Hairy oat-grass	Tussock pasture.
Arundo conspicua Forst. f	Toetoe	New Zealand reed	Hillsides, in open.
Arundo conspicua Forst. f	100000	Silver-tussock	Tussock pasture; rock.
	1	Blue-tussock	Tussock pasture.
— Colensoi Hook. f		Weak poa	Shaded rock.
— Colensoi Hook. f	• •	Weak poa	Tussock pasture.
— Colensoi Hook. f	1		

PROVISIONAL LIST OF FERNS AND FLOWERING-PLANTS OF THE PORT HILLS-continued.

Microtis unifolia Reichenb. Plerostylis Banksti R. Br. Corysanthes triloba Hook. f. Common hooded orchid. Common spider-orchid. PIPERACRAE. Macropiper excelsum Miq. URTICACEAR. Paratrophis microphylla Cockayne (= P. heterophylla Bl. as defined in Man. N.Z. Flora, p. 632) Urtica ferox Forst. f. LORANTHACEAR. LORANTHACEAR. LORANTHACEAR. Loranthus micranthus Hook. f. Korthalsella salicornioides Van Tiegh. Lindsayi Eagler POLYGONACEAE. Rumex flexuosus Sol. Müchlenbeckia unstralis Meissn. Pohuehue Onion-leaved orchid. Common hooded orchid. Common spider-orchid. Forest. Forest. Forest. Forest. Forest, or forming the Forest. Common New Zealand mistletoe Parasitic in forest on trees. Parasitic on Leptosp scoparium. Forest (according to A r ms trong). Pre parasitic on Melicopplex. Tussock pasture. Tussock pasture. Forest (according to A r ms trong). Pre parasitic on Melicopplex. Tussock pasture. Forest common New Zealand dock Tussock pasture. Forest or crest; climbing shrubs in open. Forest or crest; climbing shrubs in open. Forming open cushi	Species, Family, &c.	<u> </u>	Maori Name.	English Name.	Habitat.
Blaschearis Cunninghamii Boeck Matau-arriki Matau-rriki Tall uncinia unciniat Kükenth Matau-rriki Tall uncinia Forest Forest Forest Forest Forest Gardina Forest For	MOPHYTA)—continued.		,		,
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Carex seeds Boott	Uncinia uncinata Kükenth				
miserea R. Br. dissita Sol. tersuria Forst. f. lucida Boot. lucida Boot. JUNCAGRAE. JUNCAGRAE. JUNCAGRAE. JUNCAGRAE. JUNCAGRAE. JUNCAGRAE. JUNCAGRAE. JUNCAGRAE. JUNCAGRAE. Refisered the var. Luzada campestris D.C. var. migrata Buchen, and other vars. Rhipogonum scindens Forst. Rhipogonum scindens Rost. Rhipogonum scindens Forst. Rhipogonum scindens Rost. Rhipogonum scindens Rost. Ricitation scindens Rost. Ricitation scindens Rost. Ricitation scindens Sprong, var. Arthropodium candidum Racul Raylladaceae. Rippaisi lucida Reichanb. Percetylis Braheii R. Br. Common ibertia Rock where soil is des Rost wher			1		I
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Cordyline australis Hook f. Phormium tenax Forst, var. Arthropodium candidum Raoul AMBRYLLIDACEAE. Hypoxis pusilla Hook f. IRIDACEAE. Libertia ixioides Spreng, var. Tikauki Common libertia ORCHIDACEAE. Libertia ixioides Spreng, var. Tikauki Common libertia ORCHIDACEAE. Libertia ixioides Spreng, var. Tikauki Common libertia Rock where soil is dee Common thelymitra Common thelymitra Common hooded orchid Common hooded orchid Common spider-orchid Forest. Forest. Forest. Forest. Common spider-orchid Common spider-orchid Common spider-orchid Common spider-orchid Forest. Forest.					<u></u>
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AMARYLLIDACEAE. Hypoxis pusitlat Hook, f. Libertia ixioides Spreng, var. CORCHIDACEAE. Libertia ixioides Spreng, var. CORCHIDACEAE. Earina mucronata Lindl. Thelymitra longifolia Forst, var. Microtis unifolia Reichenb. Peterostylis Bunksii R. Br. Corysunthes triloba Hook, f. Common hooded orchid. Common spider-orchid. Common spider-orchid. Common spider-orchid. Forest. Forest. Forest. Forest. Forest. Forest. Forest. Loranthus microphylla Cockayne (= P. heterophylla Bl. as defined in Man. N.Z. Flora, p. 632). LOBANTHACEAE. Loranthus micranthus Hook, f. Cornon New Zealand mistletoe New Tealand dock Tussock pasture. Forest. Forest. Forest. Forest. Forest. Forest. Common New Zealand mistletoe Parasitic in forest on trees. Parasitic in forest on trees. Parasitic in Melicophyla. Ar in strong). Preparasitic on Melicophyla. Rumex flexuosus Sol. Michlenbeckia austratis Meissn. Componatoreae. Rumex flexuosus Sol. Michlenbeckia austratis Meissn. Pohuchue Cornon New Zealand dock Tussock pasture. Tussock pasture. Forest; rock. Tussock pasture. Forest; rock. Tussock pasture. Forest, or forming this forest. Forest. Common New Zealand mistletoe Tussock pasture. Forest.			Harakeke	3T F7 1 1 ()	
IRIDACEAE. Libertia ixioides Spreng, var. Libertia ixioides Spreng, var. Tikauki ORCHIDACEAE. Earina mucronata Lindl. Thelymitra longifolia Forst. var. Makaika Peka-a-waka Makaika Pointed-leaved carina Common thelymitra Tussock pasture: Forest; rock. Tussock pasture; rock soil is deep. Tussock pasture: Tussock pasture: Tussock pasture: Forest, Tussock pasture: Tussock pasture: Forest, Tussock pasture: Forest. Tussock pasture: Forest,					Base of shaded rocks.
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Common spider-orchid PIPERACEAE. Macropiper excelsum Miq URTICACEAE. Paratrophis microphylla Cockayne (= P. heterophylla Cockayne (in Man. N.Z.) Forest. Forest. Forest. Forest. Forest. Milk-tree Forest. Parasitic in forest on trees. Parasitic on Leptosp scoparium. Forest (according to A r m strong). Preparasitic on Melicopylex. Pollygonaceae. Rumex flexuosus Sol Mitchlenbeckia australis Meissn. Pohuchue Pohuchue Chenopopolaceae. Chenopopolaceae. Chenopopolaceae. Chenopopolaceae.				Common hooded orchid.	
Macropiper excelsum Miq. Kawakawa Milk-tree Forest.			,		Forest, on moist banks.
URTICACEAR. Paratrophis microphylla Cockayne (= P. heterophylla Bl. as defined in Man. N.Z. Flora, p. 632) Urtica ferox Forst. f	D				
Paratrophis microphylla Cockayne (= P. heterophylla Bl. as defined in Man. N.Z. Flora, p. 632) Urtica ferox Forst. f			Kawakawa		Forest.
Urtica ferox Forst. f	Paratrophis microphylla Cockayn heterophylla Bl. as defined in M	te (= P . lan, N.Z.	Turepo	Milk-tree	Forest.
LORANTHACEAE. Loranthus micranthus Hook. f. Loranthus micranthus Hook. f. Common New Zealand mistletoe Common New Zealand mistletoe Parasitic in forest on trees. Parasitic on Leptosp scoparium. Forest (according to A r m strong). Proparasitic on Melicopy plex. Polygonaceae. Rumex flexuosus Sol			Ongaonga	Tran-nottle	Forest or forming thickets
Loranthus micranthus Hook f. Korthalsella salicornioides Van Tiegh. Lindsayi Eagler Lindsayi Eagler POLNGONACEAE. Rumex flexuosus Sol	" · · · · · · · · · · · · · · · · · · ·		0. 0		
Tussock pasture. **Tussock pasture.** **Tussock pasture.** **Tussock pasture.** **Tussock pasture.** **Tussock pasture.** **To r e s t; climbing shrubs in open.** **To rocky ground and to pasture; forest.** **Chenopodiaceae.** **Tussock pasture.** **Fo r e s t; climbing shrubs in open.** **Forming open cushi rocky ground and to pasture; forest.** **Tussock pasture.** **Tussock pasture.** **Fo r e s t; climbing shrubs in open.** **Forming open cushi rocky ground and to pasture; forest.** **Tussock pasture.** **Tussock pasture.** **For res t; climbing shrubs in open.** **Forming open cushi rocky ground and to pasture; forest.** **Tussock pasture.** **Tussock pasture.** **For res t; climbing shrubs in open.** **Forming open cushi rocky ground and to pasture; forest.** **Tussock pasture.** **Tussock pasture.** **For res t; climbing shrubs in open.** **Forming open cushi rocky ground and to pasture; forest.** **Tussock pasture.** **Tussock pasture.** **For res t; climbing shrubs in open.** **Forming open cushi rocky ground and to pasture; forest.** **Tussock pasture.** **Tussock pasture.** **For res t; climbing shrubs in open.** **Tussock pasture.** **Tusso				Common New Zealand	Parasitic in forest on many
CHENOPODIACEAE. Lindsayi Engler Scoparium. Forest (according to A r m s trong). Preparasitic on Melicopy plex. New Zealand dock Tussock pasture. Forest; climbing shrubs in open. Forming open cushis rocky ground and to pasture; forest.					trees.
POLYGONACEAE. Rumex flexuosus Sol				••	scoparium.
POLYGONACEAE. Rumex flexuosus Sol	serveouge sanguet	• •			Armstrong). Probably
POLYGONACEAE. Rumex flexuosus Sol					parasitic on Melicope sim
Rumex flexuosus Sol	Polygonachah.				piece.
Shrubs in open. Forming open cushi rocky ground and to pasture; forest.	Rumex flexuosus Sol		1		Tussock pasture.
Pohuehue Forming open cushi rocky ground and to pasture; forest.	muentenbeckia australis Meissn.	• •			Forest; climbing over
CHENOPODIACEAE.	complexa Meissn	• •	Pohuehue		Forming open cushions or rocky ground and tussock
Discourt Consideration D. D. D.	Chenopodiaciead		į.		pasture; forest.
					Rock.
Caryophyllackae.	CADACONIATACIA				
Sclerauthus biftorus Hock, f Kohukohu Rock: tussock pastu	Scleranthus biflorus Hock, f		Kohukohii		Rock; tussock pasture.
Stellaria purviflora Banks & Sol Small-flowered chickweed Forest.	Stellaria parviflora Banks & Sol.				
Colobanthus Billardieri Fenzl. var	Colobanthus Billardieri Fenzl. van			••	
RANUNCULACEAE.				· .	
Clematis indivisa Willd Pikiarero New Zealand clematis Forest.			Pikiarero	New Zealand elematis	
	foetida Raoul				
Ranunculus hirtus Banks & Sol. var Common New Zealand Tussock pasture.	Ranunculus hirtus Banks & Sol.	_		Common New Zealand	Rocky ground; forest. Tussock pasture.
buttercup —— multiscapus Hook, f	multiscapus Hook. f				
MAGNOLIACEAE.					
Drimys celevata Raoul Horopito Blotched-leaved pepper Forest.			Horopito	Blotched-leaved pepper-	Forest.
tree				tree	La de la companya de

Provisional List of Ferns and Flowering-plants of the Port Hills-continued.

Species, Family, &c.	Maori Name.	English Name.	Habitat.
FLOWERING - PLANTS (SPER- MOPHYTA)—continued.			
CRUCIFERAE. Cardamine heterophylla O. E. Schulz var.	•••	Hairy bitter-cress	Forest and outskirts; shaded rock, &c.
Crassulaceae. !rassula Sieberiana Schultz]	••		Rock.
Saxifragaceae.	Putaputawheta	New Zealand hawthorn	Forest.
Pittosporaceae. Pittosporum tenuifolium Banks & Sol	Powhiwhi	Thin-leaved pittosporum Lemonwood	Forest.
Rosaceae. Rubus australis Forst. f. var	Tataramoa	Lawyer Leafless lawyer	Forest; thickets on hillside Thickets on hillsides; forest
T. Kirk schmidelioides A. Cunn, var. color- atus T. Kirk			Forest.
subpauperatus Cockayne	Piripiri	Red biddy-bid	Margin of forest. Tussock pasture; rock.
dissima Bitter sanguisorbae Vahl var. viridior	Piripiri	Green biddy-bid	Tussock pasture.
Cockayne var. nov. ined. Potentilla anserina L. var. anserinoides Raoul	1	New Zealand silver-weed	Moist ground.
Geum urbanum L. var. strictum Hook. f			Tussock pasture.
LEGUMINOSAE. Carmichaelia subulata T. Kirk	Kowhai	New Zealand laburnum Dwarf kowhai	Tussock pasture. Forest; hillside in open. Stony ground.
GERANIAGEAE. Geranium microphyllum Hook. f Pelargonium inodorum Willd,	Kopata	Slender cranesbill	Tussock pasture. Tussock pasture.
Oxalidaueae. Oxalis corniculata L. var			Tussock pasture; rock.
Linaueae. Linum monogynum Forst. f		White flax	Rock.
RUTACEAE. Melicope simplex A. Cunn	Poa-taniwha		Forest.
CORIARIACEAE. Coriaria sarmentosa Forst. f	Tutu		Thickets in open.
ICACINACEAE. Pennantia corymbosa Forst	Kaikomako		Forest.
Sapindaceae. Dodonaea viscosa Jacq Alectryon excelsum Gaertn	TTT-1 . T .	New Zealand ash	Forest.
RHAMNACEAE. Discaria toumatou Raoul	. Tumatukuru	Wild-irishman	Tussock pasture.
Elaeocarpaceae. Aristotelia racemosa Hook. f	. Makomako	Wineberry	Forest.
MALVACEAE. Plagianthus cymosus T. Kirk*	. Manatu	T . 1 . L	T3
GUTTIFERAE. Hypericum gramineum Forst. f.		Japanese St. John's wort	Tussock pasture. Tussock pasture.
VIOLACEAR. Viola Cunninghamii Hook. f	•	Common New Zealand	Tussock pasture.
	. Mahoe .		Forest.

^{*} This wants confirmation; the plant noted may have been only a juvenile form of P. betulinus. It was growing in a gully above Lyttelton.

Provisional List of Ferns and Flowering-plants of the Port Hills-continued.

Species, Family, &c.	Maori Name.	English Name.	Habitat.
FLOWERING - PLANTS (SPER-MOPHYTA)—continued.			:
Passifloraceae. Tetrapathaea australis Raoul		New Zealand passion-	Forest.
Myrtaceae. Leptospermum scoparium Forst. var	Manuka	flower Red tea-tree	Forming patches of crec
ericoides A. Rich, var	Kanuka	White tea-tree	scrub. Forest; rock.
Metrosideros hypericifolia A. Cunn	Rohutu	Slender climbing white- rata	Forest; moist rock. Forest,
Onagraceae.	1	••	
Epilobium cinereum A. Rich	••	Narrow - leaved willow- herb	Tussock pasture; rock.
—— pubens A. Rich	••	Soft-leaved willow-herb Round-leaved willow-herb	Forest; rock.
——— nummularifolium R. Cunn		Creeping willow-herb	Rock.
—— nerterioides A. Cunn	Kotukutuku	Wrinkled willow-herb New Zealand fuchsia	Rock; tussock pasture. Forest.
Fuchsia excertica L. f		Shrubby fuchsia	Forest; thickets in open.
HALORRHAGACEAE. Halorrhagis erecta Schindler		Tall halorrhagis ·	Under manuka ; rock.
ARALIACEAE.			!
Nothopanax arboreum Seem	Whauwhaupaku	Ivy-tree	Forest; rock.
Schefflera digitata Forst.	Pate	New Zealand fig	Forest.
Pseudopanax crassifolium C. Koch var. unifoliatum T. Kirk	Horocka	Lancewood	Forest.
Umbelliferae. Tydrocotyle elongata A. Cunn	••	Long - stemmed marsh- pennywort	Forest.
novae-zelandiae D.C		New Zealand marsh-	Tussock pasture.
americana L	••	pennywort American marsh - penny- wort	Forest.
moschata Forst. f	••	Sharp - toothed marsh- pennywort	Forest; tussock pasture; rock.
Aciphylla squarrosa Forst, var Anisotome aromatica Hook. f. var	Taramea	Speargrass	Tussock pasture. Rock.
—— Enysii Laing*	••	New Zealand aniseed	Rock. Rock.
(= Gingidium montanum Forst. in Char. Gen. Plant. 41, t. 2,			
and Angelica Gingidium Hook, f.) —— geniculata Hook, f	••	Climbing-aniseed	Forest; climbing over shrubs in open.
Daucus brachiatus Sieb.		Wild carrot	Tussock pasture.
Schizeilema Hookeri Domin	••	٠٠	Forest.
CORNACEAE. Corokia Cotoneaster Raoul		Wiry corokia	Rock,
Friselinia littoralis Raoul	Kapuka	Broadleaf	Forest; rock.
Epacridaceae. Styphelia acerosa Sol. var	Mingimingi	Sharp-leaved heath	Rock.
——— Fraseri F. Muell	Patotara	Dwarf heath	Rock; tussock pasture. Cooper's knob; rock.
MYRSINACEAE. Rapanea Urvillei Mez	Мараи	Red-maple	Forest; rock.
APOCYNACEAE. Parsonsia heterophylla A. Cunn	Kaiwhiria	New Zealand jasmine	Forest.
Cockayne var. nov. (= P. rosea Raoul	Kaiwiii ia	Pink New Zealand jas- mine	Forest.
in Choix, p. 17)	!		
Convolvulaceae. Valystegia tuguriorum R. Br	l	New Zealand convolvulus	Forest.
Convolvulus erubescens Sims	• •	TAGA Sparatin contactallis	Tussock pasture.
Dichondra repens Forst	••	Creeping-dichondra	Tussock pasture.
BORAGINACEAE. Myosotis australis R. Br. var. (probably an undescribed species)		••	Shaded rock.
VERBENACEAE. "eucridium parvifolium Hook. f			Forest.

^{*} I am not at all satisfied as to this identification.

Provisional List of Ferns and Flowering-plants of the Port Hills-continued.

Species, Family, &c.	Maori Name.	English Name.	Habitat.
FLOWERING - PLANTS (SPER-			
MOPHYTA)—continued.			
Solanaceae.			
Solanum nigrum L	· · ·	••	Bare ground.
—— aviculare Forst. f	Poroporo	••	Forest.
Scrophulariaceae.		·	
Veronica salicifolia Forst. f. var	Koromiko	Common veronica	Rocky ground; margin o forest.
——————————————————————————————————————	••	Smooth-leaved veronica	Rocky ground; rock; mar gin of forest.
Lavaudiana Raoul		Port Hills veronica	Rock.
Myoporaceae,		\	
Myoporum laetum Forst. f	Ngaio		Forest; in open on hillsides
Rubiaceae.			
Coprosma robusta Raoul	Karamu	Glossy coprosma	Forest.
lucida Forst. f			Forest; rock.
Cunninghamii Hook. f			Banks of streams.
rotundifolia A. Cunn	1	Round-leaved coprosma	Forest.
areolata Cheesem	• •	Thin-leaved coprosma	Forest.
- rhamnoides A. Cunn. var	• •	Red-fruited coprosma	Forest.
crassifolia Col		Stiff-stemmed coprosma	Forest; rock. Bank of streams.
propinqua A. Cunn		Common coprosma	
linariifolia Hook, f	• •	Narrow-leaved coprosma	Forest.
CAMPANULACEAE.			
Wahlenbergia gracilis A.D.C		Slender blue-bell	Tussock pasture,
Pratia angulata Hook. f. var		Creeping-pratia	Moist ground.
Compositae.			
Lagenophora petiolata Hook, f		Slender New Zealand daisy	Tussock pasture.
Brachycome Thomsoni T. Kirk var.*			Base of rocks in shale.
Olearia fragrantissima Petrie		Fragrant tree-daisy	Forest.
Celmisia longifolia Cass. var		Common celmisia	Base of rocks.
Vittadinia australis A. Rich			Tussock pasture.
Gnaphalium collinum Lab		Hill cudweed	Tussock pasture.
luteo-album L		White cudweed	Tussock pasture.
japonicum Thunb		Japanese cudweed	Tussock pasture.
Raoulia glabra Hook, f. \dots	• • •		Tussock pasture.
Helichrysum bellidioides Hook, f filicaule Hook, f	• • • • • • • • • • • • • • • • • • • •	Mountain-daisy	Tussock pasture.
filicaule Hook, f	• •	1	Tussock pasture.
geometrical Dates. & Hook. 1	•••	Shrubby helichrysum	Rock; forest.
Craspedia uniflora Forst. f. var		TT424-1	Tussock pasture; rock.
Cotula Haastii T. Kirk	••	Haast's cotula	Tussock pasture ; rock.
—— dioica Hook. f. var	1	Common cotula	Tussock pasture.
Erechtites prenanthoides D.C		Common fireweed	Forest. Rock; tussock pasture.
——— quadridentata D.C	• • •	Port Hills groundsel	Rock, tussock pasture.
* **	1	Coast groundsel	Rock.
lautus Forst. f	::	Climbing-groundsel	Forest.
Microseris scapigera Sch. Bip. (= M. Fors-		Chintonig-groundser	Tussock pasture; rock.
teri Hook. f.)		1	1
Taraxacum magellanicum Comm		New Zealand dandelion	Tussock pasture.
	1		

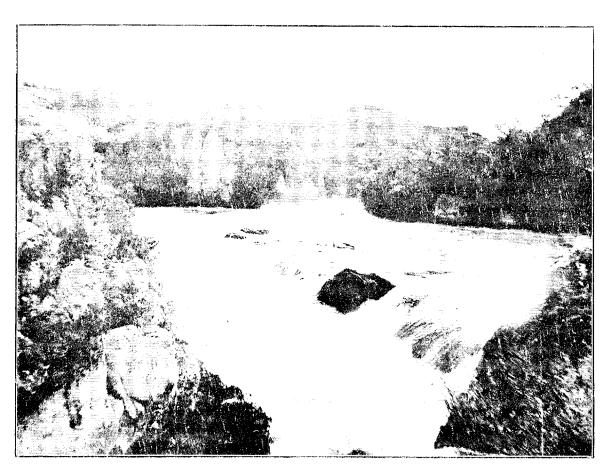
^{*} This identification may be incorrect.

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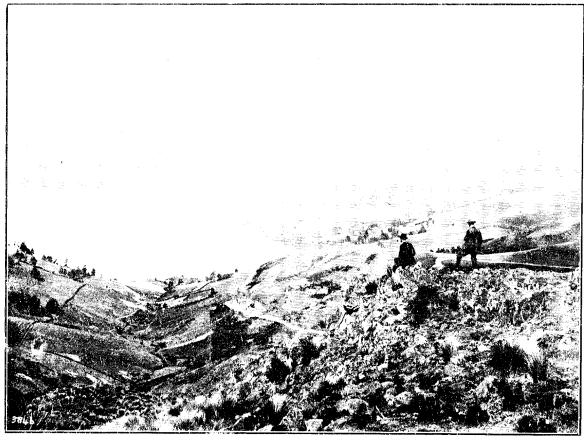
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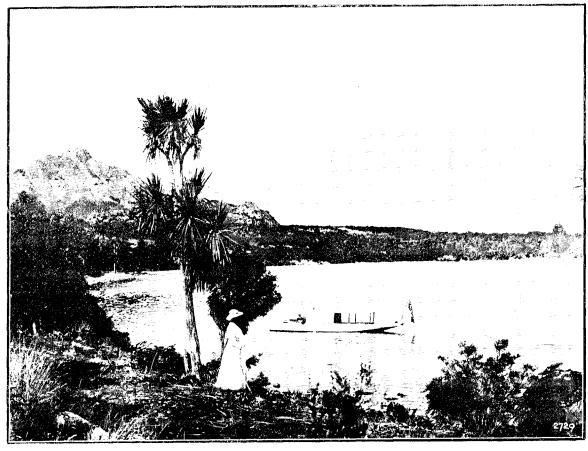
ARABIATIA RAPIDS, WAIKATO PIARR



GOVERNOR'S BAY, LYTTELTON. VIEW FROM SUMMIT ROAD.



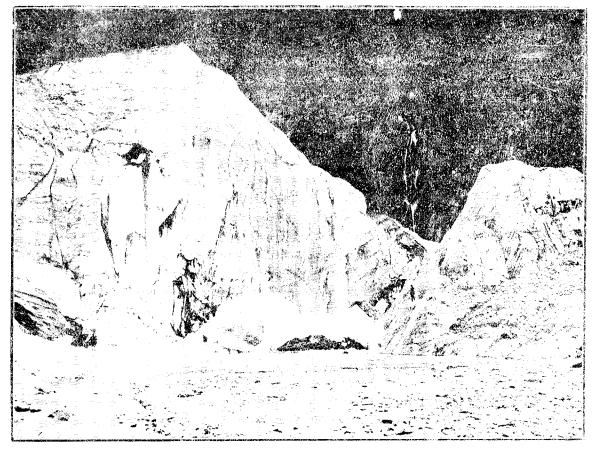
Hochstetter Ice falls.



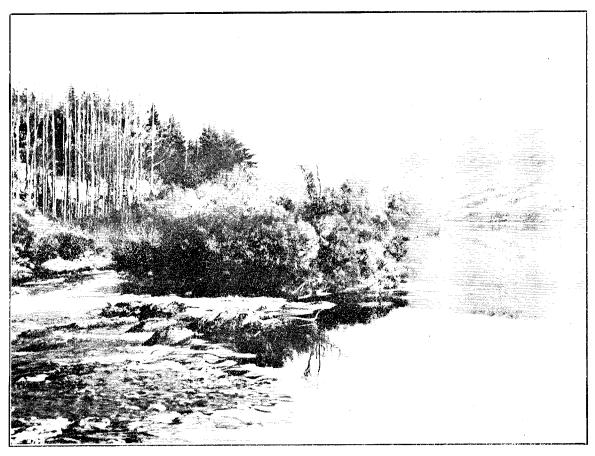
Bob's Cove. Lake Waknther.



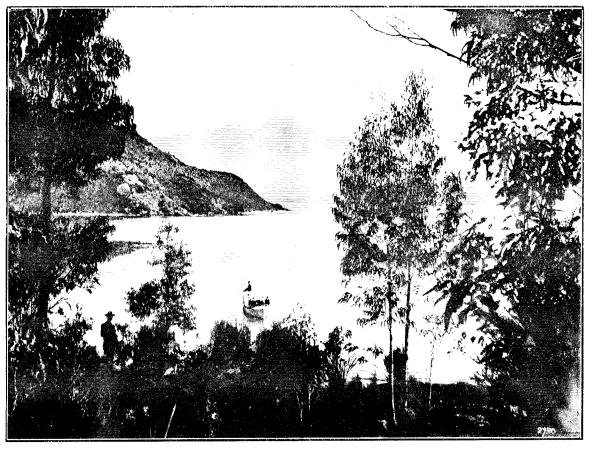
BRANK JOORF GLACIER, WEGGLAND



TERMINAL FACE, FRANZ JOSEF GLACIER



KAWARAU FALLS, LAKE WAKATIPU.



BOB'S COVE, LAKE WARATIPU.