APPENDIX

ANNUAL REPORT ON PUBLIC WORKS BY THE ENGINEER-IN-CHIEF.

(1st July, 1911, to 30th June, 1912.)

The Engineer-in-Chief to the Hon. the Minister of Public Works.

SIR,-

Public Works Office, Wellington, 30th June, 1912.

I have the honour to submit the following report on the various works completed and in Progress throughout the Dominion during the past year:-

RAILWAYS.

ABSTRACT.

The following table shows the expenditure and liabilities on Government railways in New Zealand up to the 31st March, 1912:—

Kaihu Valley Kawakawa-Hokianga Opua Wharf - Grahar North Auckland Mair Helensville - Te Awar Hamilton-Thames, w Thames Valley - Roto Tauranga-Paengaroa, Gisborne-Motu Napier-Gisborne Wellington-Napier a Te Aro Extension a Wellington-Waitara, Stratford - Okahukur North Island Main C cluding Raetihi Bre Picton-Waipara (Sou Picton southwards Waipara northward Nelson-Belgrove Midland Railway*	ntown (One Trunk Ranutu, with th Branch rua with Branch and Palme and Greytow with Branch frunk (Manuch	rahi) ilway (fro Branches es ch (part o	of)	 ville) 	M. 6 19 34 58 110 151 75 69 18	or n. 58 12 6 0 1 18	17 58 36 151 75	c. ch. 21 6 57	Expendit 31st March, £ 63,578 71,372 511,198 552,902 1,584,175 497,284	s. 9 7 17 8 0	d. 9 6 10 0 5	3,213 1,007	s. c 9 11 18
Kawakawa-Hokianga Opua Wharf - Grahar North Auckland Mair Helensville - Te Awar Hamilton-Thames, w Thames Valley - Roto Tauranga-Paengaroa, Gisborne-Motu Napier-Gisborne Wellington - Napier a Te Aro Extension a Wellington-Waitara, Stratford - Okahukur North Island Main cluding Raetihi Bre Picton-Waipara (Sou Picton southwards Waipara northward Nelson-Belgrove Midland Railway*	ntown (One Trunk Ranutu, with th Branch rua with Branch and Palme and Greytow with Branch frunk (Manuch	ollway (from Branches es oh (part of rston Nown Branches)	of)	ville)	M. 6 19 34 58 110 151 75 69 18	ch. 58 12 6 0 1 18 33	17 58 36 151 75	21 6 57 1	63,578 71,372 511,198 552,902 1,584,175	9 7 17 8 0	9 6 10 0 5	3,213 1,007 7 22,989	9 11 18 19
Kawakawa-Hokianga Dpua Wharf - Grahar North Auckland Mair Helensville - Te Awar Hamilton-Thames, w Chames Valley - Roto Cauranga-Paengaroa, Sisborne-Motu Napier-Gisborne Wellington - Napier a Wellington-Waitara, Stratford - Okahukur North Island Main c cluding Raetihi Bra Picton-Waipara (Sou Picton southwards Waipara northward Nelson-Belgrove Midland Railway* Wasport-Ngakawau	ntown (One Trunk Ranutu, with th Branch rua with Branch and Palme and Greytow with Branch frunk (Manuch	ollway (from Branches es oh (part of rston Nown Branches)	of)	ville)	19 34 58 110 151 75 69	58 12 6 0 1 18	17 58 36 151 75	21 6 57 1	63,578 71,372 511,198 552,902 1,584,175	9 7 17 8 0	9 6 10 0 5	3,213 1,007 7 22,989	9 11 18 19
Kawakawa-Hokianga Dpua Wharf - Grahar North Auckland Mair Helensville - Te Awar Hamilton-Thames, w Chames Valley - Roto Cauranga-Paengaroa, Sisborne-Motu Napier-Gisborne Wellington - Napier a Wellington-Waitara, Stratford - Okahukur North Island Main c cluding Raetihi Bra Picton-Waipara (Sou Picton southwards Waipara northward Nelson-Belgrove Midland Railway* Wasport-Ngakawau	ntown (One Trunk Ranutu, with th Branch rua with Branch and Palme and Greytow with Branch frunk (Manuch	ollway (from Branches es oh (part of rston Nown Branches)	of)	ville)	34 58 110 151 75 69 3	12 6 0 1 18 33	58 36 151 75	6 57	71,372 511,198 552,902 1,584,175	7 17 8 0	6 10 0 5	1,007 7 22,989	11 18 19
Opua Wharf - Grahar North Auckland Mair Helensville - Te Awar Hamilton-Thames, w Chames Valley - Roto Sauranga-Paengaroa, Sisborne-Motu Vapier-Gisborne Vellington - Napier Te Aro Extension a Wellington-Waitara, Stratford - Okahukur Vorth Island Main Cluding Raetihi Bre Picton-Waipara (Sou Picton southwards Waipara northward Vaipara northward Velindand Railway* Westport-Ngakawau	ntown (One Trunk Ranutu, with th Branch rua with Branch and Palme and Greytow with Branch frunk (Manuch	ollway (from Branches es oh (part of rston Nown Branches)	of)	ville)	58 110 151 75 69 3	6 0 1 18 33	58 36 151 75	57 1	511,198 552,902 1,584,175	17 8 0	10 0 5	7 22,989	18 19
North Auckland Mair Helensville – Te Awar Hamilton-Thames, w Chames Valley – Roto Sauranga-Paengaroa, Sisborne-Motu Vapier-Gisborne Vellington – Napier Te Aro Extension a Wellington-Waitara, Stratford – Okahukur North Island Main Cluding Raetihi Bre Picton-Waipara (Sou Picton southwards Waipara northward Velson-Belgrove Midland Railway* Westport-Ngakawau	Trunk Ranutu, with lith Branch rua with Branch md Palme nd Greytow with Branch frunk (Manuch	ollway (from Branches es oh (part of rston Nown Branches)	of)	•••	110 151 75 69 1	0 1 18 33	36 151 75	57 1	552,902 $1,584,175$	8	0 5	22 ,989	19
Helensville - Te Awar Hamilton-Thames, w Thames Valley - Roto Sauranga-Paengaroa, Hisborne-Motu Vapier-Gisborne Vellington - Napier Te Aro Extension a Wellington-Waitara, Hratford - Okahukur North Island Main cluding Raetihi Br cluding Raetihi Br icton-Waipara (Sou Picton southwards Waipara northward Nelson-Belgrove Midland Railway* Westport-Ngakawau	nutu, with th Branch rua with Branch and Palme and Greytow with Branch frunk (Ma.	Branches es oh (part o rston No	of)	•••	151 75 69 1	1 18 33	151 75	1	1,584,175	0	5		
Hamilton-Thames, whemes Valley - Rote Cauranga-Paengaroa, Sisborne-Motu Vapier-Gisborne Vellington - Napier a Vellington-Waitara, Stratford - Okahukur Vorth Island Main Cluding Raetihi Braciton-Waipara (Sou Picton southwards Waipara northward Valland Railway* Vestport-Ngakawau	th Branch rua with Branch and Palme and Greytow with Branch frunk (Man	es oh (part o	of) orth (inclu	••	75 69 3 18 6	18 33	75					10,183	
Chames Valley - Roto Cauranga-Paengaroa, Sisborne-Motu Napier-Gisborne Vellington - Napier a Te Aro Extension a Wellington-Waitara, Stratford - Okabukur North Island Main o cluding Raetibi Bra Citton-Waipara (Sou Picton southwards Waipara northward Nelson-Belgrove Midland Railway* Wastport-Ngakawau	rua with Brance and Palme and Greytow with Brance frunk (Man	oh (part o :: rston No vn Branci	of) orth (inclu		69 : 18 (33		10	437.284	19	11 '		10
Cauranga-Paengaroa, Sisborne-Motu Vapier-Gisborne Vellington - Napier Te Aro Extension a Wellington-Waitara, Stratford - Okabukur North Island Main Cluding Raetihi Bra Cicton-Waipara (Sou Picton southwards Waipara northward Nelson-Belgrove Midland Railway* Westport-Ngakawau	with Brandnd Palme nd Greytow with Brand a Trunk (Man	rston No vn Branci	 orth (inclu	••	18			00				••	
Hisborne-Motu Vapier-Gisborne Vellington - Napier Te Aro Extension a Wellington-Waitara, Stratford - Okabukur Vorth Island Main Cluding Raetihi Bra Picton-Waipara (Sou Picton southwards Waipara northward Nelson-Belgrove Midland Railway* Westport-Ngakawau		rston No vn Branci	 orth (inclu				69	33	356,339		9	::-	
Vapier-Gisborne Vellington - Napier a Te Aro Extension a Wellington-Waitara, Stratford - Okahukur Vorth Island Main Cuding Raetihi Bre Picton-Waipara (Sou Picton southwards Waipara northward Velson-Belgrove Vidland Railway* Wasport-Ngakawau	nd Palme nd Greytow with Branc Trunk (Man	rston No n Branci	orth (inclu	• • •				F4	53,399			471	
Wellington - Napier & Te Aro Extension a Wellington-Waitara, Stratford - Okahukur Yorth Island Main Cuding Raetihi Bre Picton-Waipara (Sou Picton southwards Waipara northward Nelson-Belgrove Wasport-Ngakawau	nd Palme nd Greytow with Branc Trunk (Mar nch	m Branci	orth (inclu				23	14	438,749			3,358	
Te Aro Extension a Wellington-Waitara, Stratford - Okahukur North Island Main ' cluding Raetihi Bre Picton-Waipara (Sou Picton southwards Waipara northward Nelson-Belgrove Midland Railway* Wasport-Ngakawau	nd Greytow with Branc Trunk (Mar nch	m Branci	ortn (inciu		120	0	• •	į	1,861	10	1	155	15
Wellington-Waitara, stratford - Okabukur Orth Island Main Celuding Raetihi Brecton-Waipara (Sou Picton Southwards Waipara northward Nelson-Belgrove Wastrort-Ngakawau	with Branc L. Trunk (Mar meh	hes		aing	000	, 0	200	10	0.455.014	• •	أيما		
Stratford - Okabukur North Island Main ' cluding Raetihi Bra Picton-Waipara (Sou Picton southwards Waipara northward Nelson-Belgrove	a Frunk (Ma: mch	enes		•••	233		233		2,475,311		$\frac{9}{2}$	•••	
North Island Main Coluding Raetihi Bre Picton-Waipara (Sou Picton southwards Waipara northward Nelson-Belgrove Midland Railway* Westport-Ngakawau	Trunk (Ma: nch		• •	• • •	289		285		2,548,129			387	
cluding Raetihi Bra Picton-Waipara (Sou Picton southwards Waipara northward Nelson-Belgrove Midland Railway*	nch				94	10	22	too	419,481	9	9	5,941	15
Picton-Waipara (Sou Picton southwards Waipara northward Nelson-Belgrove Midland Railway* Wastport-Ngakawau	nen ih Island M		Awamutu) in-	01=	no	000	00	0.404.054	_			
Picton southwards Waipara northward Nelson-Belgrove Midland Railway* Westport-Ngakawau	in Island M	r i m	1 20	、 ・・	217	99	209	69	2,694,974	0	11	4	0
Waipara northward Nelson-Belgrove Midland Railway* Westport-Ngakawau			k Kanway			00	40			_			_
Nelson-Belgrove Midland Railway* Westport-Ngakawau		• •	••	•••	98			9	548,507		4	382	6
Midland Railway" Westport-Ngakawau	8	• •	• •	•••	74 '		35		344,954			3,627	19
Westport-Ngakawau	• •	• •	• •	•••	22 '		22		196,738			••	
Westport-Ngakawau		• •	• •	•••	243		139		1,462,220			392,370	11
	: .		:•	• • • }	19		19		188,008	17	3	• •	
Westport-Ngakawau	Extension	to Mokih	ınuı†	•••	7			12	••		į	••	
Mokihinui Colliery Li	ne;	• •	• •	• • •	3		3	69			_	••	
Westport-Inangahua	• •	• •	••	• •	26	- 1	• •		99,091			34,943	16
Ngahere-Blackball			• •	• • •	3			40	147,577			• •	
Greymouth - Coal Cre	ek	• •	• •	• •	8			1	224,724			20	19
Greymouth-Brunner	• •	• •	• •	••	7			51	150,512				
Greymouth-Mikonui	••		. • •	••	48	42	38	68 j	336,799		4		
Culverden–Hanmer M							• • •		3,834		0	• •	
Hurunui-Waitaki, wi			_ ••		483		443		2,481,717		2		
Canterbury Interior N			remuka.	• •	83	- 1	11		59,343		2	••	
Waitaki-Bluff, with	3ranches	• •	• •		616		523		4,662,377			2,249	14
Otago Central		• • •			182		134		1,280,393				
Invercargill-Kingstor	, with Mar	aroa Bra	nch	• •	117	_	97		357,290		2		
Forest Hill Railway-	-Winton–H	ledgehope	э§		12		12		22,983			•	
Western Railways	• •	• •	• •		71	6	70	31	328,672				
Preliminary Surveys	• •		• •			j]	36,534				
Miscellaneous		• •	• •					- 1	10,336	19	11	• •	
Stock of Permanent-	vay on han	ıd				1			102,850	4	4	10,183	17
Value of Permanent-	way in ha	nds of Ra	ailway De	part-	٠.	1]	1		- 1	•	
ment			••	•••		1			25,000	0	0		
Rolling-stock			• •						5,141,805	9	0	131,261	0
9						i-							
To	tal	••	••	• •	3,676	26	2,807	56	30,481,035	19	6	622,761	12
PROVINCIAL			s, etc.										
Canterbury (lengths i			••			Į.			731,759		0		
Otago and Southland	• •	•••				i			372,522		5		
Gisborne to Ormond	framway	• •	• •			ļ			4,975	1	7		
Midland Railway, ve		works	constructe	d by		- 1			-				
company		••	• •					1	¶683,460	3	1		
G									1				

^{*}The amount shown as expenditure represents the net amount charged against the Dominion.

† The funds for this extension—namely £35,501 2s. 11d.—were provided by the Westport Harbour Board.

† The funds for purchase of this line, £15,745, were provided by the Westport Harbour Board.

† The expenditure on this line as a tramway was made by the Lands Department.

Includes expenditure on railways under Hutt Road and Railway Improvement, Railway Improvement Authorization Act, and Wellington-Manawatu Railway Purchase Act Accounts.

¶ Includes value for £150,000 paid to debenture-holders under the Midland Railway Petitions Settlement Act Amendment Act, 1903.