Table L.

COST of MAINTENANCE of TELEGRAPH LINES for the Financial Year ending 30th June, 1870.

SECTION.	No. of Miles.	Salaries of Linemen.		Travelling Expenses.		Extra Labour.		Cost of Material used for repairs.		Total Cost of Maintenance.		Cost Per Mile.					
		£s		£	8.	d.	£	8.	d.	£	8.	d.		s. d.	£	į	s. d.
Bluff to Balclutha	114	$168 \ 1$					277		6			0				11	$11\frac{1}{4}a$
Tokomairiro to Queenstown	140		6 1	269		10			4		13	3	1,762				9 b
Balclutha to Waitaki	152	257	1 8						4	1,047	9	1	2,546			15	0 c
Waitaki to Christchurch	148	308	6 8	(-	- 3			3			1	1,306	$18 \ 3$	8	16	$7\frac{1}{4}d$
Christchurch to Greymouth	176	$397\ 1$	10 0	502	4	0	481	14	0	311	5	6	1,692	13 - 6	9	12	4 e
Greymouth to Westport	67	150	0 0							26	3	6	418	19 10	6	5	1
Christchurch to Blenheim	208	427 1	l0 3	278	5	5	376	5	4	407	0	1	$1,\!489$	$1 \ 1$	7	3	2 f
Blenheim to Nelson, including																	-
White's Bay line	92	333 1							6	98		8		5 8	-	3	$6\frac{1}{2}g$
Wellington to Napier	221	560				0			2			2	1,073	$5 \ 11$		17	0h
Wellington to Patea	180	108 1	4 9	206	14	2	32	19	6	43	19	6	392	7 11	2	3	7
	1,498	2,925	0 9	2,794			3,320				8	10	12,392		8	5	$5\frac{1}{2}*$
Auckland lines	164	729 1	1 8	633	7	3	157	19	0	206	13	6	1,727	11 5	10	10	8 i
Totals	1,662	3,654 1	2 5	3,427	10	2	3,477	19	11	3,560	2	4	14,120	4 10	8	9	11 k

* Cost per mile Bluff to Napier and Patea.

a Includes cost of lowering old poles between Invercent and Pateut. a Includes cost of lowering old poles between Invercent and Pateut. Tokomairiro to Alexandra. c Includes cost of reconstruction from Balclutha. b Includes cost of reconstruction from poles and running third wire from Dunedin to Tokomairiro to join goldfields line. d Includes cost of reconstruction from Timaru to Christchurch. e Includes cost of reconstruction of thirty miles of line from Hokitika to Bealey. f Includes cost of reconstruction from Christchurch to Woodend. g Includes cost of reconstruction of three miles of line south of Nelson; insertion of new totara poles from the junction of Bienheim and White's Bay line to Picton, and insertion of fifty totara poles, and running of third wire from junction to White's Bay. λ Includes cost of clearing bush at the Taucru; running the second wire from Tenuijunction to Castle Point, and sundry deviations of the line between Featherston and Hutt. *i* Includes cost of repairs of line between Cambridge and Alexandra; dismantling of old line between Alexandra and Newcastle; also of branch line to Kihi Kihi, and extra cost of maintenance of old line between Newcastle aud Auckland prior to reconstruction. k Total average cost per mile.

Table M.

INSULATION TESTS of the COOK STRAIT CABLE for the Years ending 30th June, 1868, 1869, and 1870, respectively, showing the resistance per knot, after two minutes' electrification, in millions of Ohmads (British Association units of resistance).

Date.	No. 1 Wire.	No. 2 Wire.	No. 3 Wire.	Date.	No. 1 Wire.	No.2 Wire.	No. 3 Wire.	Date.	No. 1 Wire.	No. 2 Wire.	No.3 Wire.
1867 September 1 , 30 October 14 November 1 , 14 December 2	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$71 \\ 102 \\ 179 \\ 32.6 \\ 10.6 \\ 10.5$	554 634 620 667 643 709	1868— September 11 . " 17 .		22.5 63.5	946 1,000	1869 July 27 August 24 September 27 †October November 8 December 3	649 667 745 582 638	9. 7. 13. 5. 2.5	1,104 1,200 1,274 1,253 1,159
1868— *June 7	. 930	5.5	1,094	1869— March 27 April 19 May 11 , 17 June 22	483 562 531	26 30 31 14 15	729 748 950 963 931	1870— January 22 February 22 March 18 , 20 April 26 May 31 June 26	526 417 442 344 430 456 355	2. 3. 3.4 2.06 8.6 .446 2.3	865 707 967 619 '812 871 622

* This test was taken with zinc to earth, and the others with copper to earth. + No test taken.