

Table No. 22.

INSULATION TESTS of the FIRST and SECOND COOK STRAIT CABLES for the Year ended 31st December, 1890, showing the Resistance per Knot after Two Minutes' Electrification in Megohms (British Association Units of Resistance).

First Cook Strait Cable.				No. 1 Wire.	No. 2 Wire.	No. 3 Wire.	Second Cook Strait Cable.				Dielectric Resistance per Knot.
January	..	..	..	151	183	347	January	..	..	..	4'1
February	..	..	..	143	170	327	February	..	..	..	2'05
March	..	..	..	128	156	287	March	..	..	..	1'86
April	..	..	..	149	177	321	April	..	..	..	0'2928
May	..	..	..	151	183	318	May (after repair)	..	..	..	954
June	..	..	..	146	173	310	June	..	..	..	975
July	..	..	..	149	169	312	July	..	..	..	744
August	..	..	..	155	176	333	August	..	..	..	918
September	..	..	..	149	168	312	September	..	..	..	1,087
October	..	..	..	132	150	290	October	..	..	..	805
November	..	..	..	135	157	301	November	..	..	..	826
December	..	..	..	138	161	324	December	..	..	..	868

Table No. 23.

INSULATION TESTS of the WANGANUI and WAKAPUAKA CABLE for the Year ended 31st December, 1890, showing the Resistance per Knot after Ten Minutes' Electrification in Megohms (British Association Units of Resistance). Length of Cable laid, 108'69 Knots.

Date.							Dielectric Resistance per Knot.	Copper Resistance per Knot in Ohms.	Mean Temperature of Sea-bottom calculated from the Observed C.R.
							Twenty Cells.		Deg. Fahr.
January	..	..	..	..	..	..	5,054	10'96	57'2
February	..	..	..	..	..	..	4,648	11'017	60
March	..	..	..	..	..	..	3,993	11'03	60'5
April	..	..	..	..	..	..	4,590	11'048	61
May	..	..	..	..	..	..	5,315	11'022	60
June	..	..	..	..	..	..	5,974	10'96	57'2
July	..	..	..	..	..	..	6,628	10'935	56
August	..	..	..	..	..	..	8,056	10'977	58
September	..	..	..	..	..	..	6,665	10'98	58
October	..	..	..	..	..	..	5,859	10'98	58
November	..	..	..	..	..	..	5,717	10'979	58
December	..	..	..	..	..	..	5,350	11	59

Table No. 24.

COST of TELEGRAPH LINES, TELEPHONE EXCHANGES, and CABLES throughout the Colony.

Section of Line.							Number of Miles of Line.	Total Cost of Section.		Cost per Mile.	
NORTH ISLAND.								£	s. d.	£	s. d.
Total, North Island, to 31st December, 1889	..	..	..	..	..	..	2,320½	240,498	3 1	..	..
Expenditure on sundry lines constructed during year 1890	..	..	..	..	..	..	139½	7,677	14 7	55	0 9
Totals	..	..	..	..	..	..	2,459¾	248,175	17 8	..	..
SOUTH ISLAND.											
Total, South Island, to 31st December, 1889	..	..	..	..	..	..	2,554½	240,955	1 11	..	..
Expenditure on sundry lines constructed during year 1890	..	..	..	..	..	..	47	3,568	13 3	75	18 7
Total, South Island, to 31st December, 1890	..	..	..	..	..	..	2,601½	244,523	15 2	..	..
Total, North Island, to 31st December, 1890	..	..	..	..	..	..	2,459¾	248,175	17 8	..	..
Totals	..	..	..	..	..	..	5,061¼	492,699	12 10	..	..
Cook Strait cables								81,280	2 4		
Telephone exchanges								69,172	17 1		
Total	..	..	..	..	..	..		£643,152	12 3		

Approximate Cost of Paper.—Cost of preparation (not given); printing (1,800 copies), £43 10s.