Another alloy wire called cadmium copper, which has the same tensile strength as bronze, but which is much superior in conductivity, is now available and has been introduced by the Department. This wire will take the place of bronze wire for new work on subscribers' circuits and short toll-lines, and ultimately, when the bronze wire in service has reached the end of its useful life, will be used to replace it entirely. The introduction of cadmium copper wire will bring about an improvement in transmission efficiency and some reduction in initial costs.

The length of various items of telephone-exchange plant in existence on the 31st March, 1935 and 1936, respectively, was as follows:—

	Pole- line.	Single Duet Line.	Cable.			Wire.				
			Under- ground.	Aerial.	Sub- marine.	In Under- ground Cable,	In Aerial Cable.			Under all Headings.
To estatones on	Miles.	Chains.					Miles.		Miles.	Miles. 548,138*
In existence on 31st March, 1935	19,565 	44,049	90,049	37,010	1,200	[991, <i>944</i>]	40,001	1,920	101,000	910,160
Erected during year	191	1,747	3,605	170		10,973	183		2,194	13,350
Dismantled during			536	578		2,373	627		654	3,654
year In existence on 31st March, 1936	15,529	46,392	99,914	37,210	1,266	400,522	46,157	1,926	109,229†	557,834

^{*} Revised figures. † Includes 151 miles of earth-working circuit.

The percentages of the total wire-mileage in underground, aerial, and submarine cables and open aerial wire respectively for the year ended 31st March, 1936, are as under:—

Telephone-exchange wire in underground cables	 	 71.5 per	cent.
Telephone-exchange wire in aerial cables	 	 $8 \cdot 5$,,
Telephone-exchange wire in submarine cables	 	 0.4	,,
Telephone-exchange open aerial wire	 	 $19 \cdot 6$,,

TELEPHONE STATISTICS.

A comparison of statistics in respect of the telephone system is made in the following table, which shows annually since 1927 the number of exchanges, the total wire-mileage, the revenue, and the total number of telephone-stations, together with the number of telephones for each 1,000 of population of the Dominion:—

			Number of		_	Number of Telephone-stations			
Year.				Exchanges.	Miles of Wire.	Revenue.	Total.	Per 1,000 Population.	
						£			
1927				342	440,253	995,071	137,307*	95.48	
1928				344	463,356	1,057,177	144,552*	99.40	
1929				351	495,470	1,135,795	152,541*	103.72	
1930				349	513,096	1,206,714	161,323*	108.37	
1931				349	528,568	1,238,649	161,739*	107.04†	
1932				349	556,735	1,218,072	160,779*	105.45	
1933				349	559,890	1,169.512	155,560*	101.21	
1934				349	560,509	1,164,711	155,059*	100.18	
1935				349	548,186‡	1,190,773	159,170*	102.06	
1936				348	557,834	1,252,964	166,565*	105.85	

^{*} Includes approximately 4,000 non-exchange stations. to Hawke's Bay earthquake. ‡ Revised figures.

[†] Decrease owing to temporary loss of subscribers due