of World Radio Systems Summary

ME report, in dealing with broadcasting from a statistical angle,

Attached hereto is a schedule giving certain data and some unique comparisons with respect to broadcasting developments in a number of English-speaking countries, where broadcasting has undergone most rapid development. The figures should prove of value in demonstrating from various angles the position of New Zealand broadcasting in relation to other countries. To those able to analyse the same they should furnish data for much useful speculation. Such subjects, for example, as the effect of population-density and distribution, license fees, and signal intensity upon development may, within certain limits, be deduced.

British and American Systems.

THE standard of broadcasting existing in the United Kingdom has now reached a high plane, the aim being to so serve the country with broadcasting-stations of suitable power that reception will be possible to almost the entire population by means of a crystal type of receiver. The organisation of broadcasting in larger and more-sparsely-settled area commercial firms seeking the goodthe United Kingdom is broadly simi- would make it a much more costly will of the public by the provision of use was being made of subscribers' lar to what obtains in New Zealand, problem to furnish equivalent signal programmes of entertainment which lines and telephones for the reception

from the N.Z. Angle

The official report presented to Parliament by the Chief Telegraph Engineer, Mr. A. Gibbs, embodying the observations made on a number of important questions while on a visit to overseas countries, carries a full analysis of the broadcasting position, which is of interest and value to listeners. This report endorses the soundness of the system of operation and control which has been established in this country.

way to minimising interference from cently became necessary to appoint a radiating receivers; and, with the large revenue and the variety and high class of talent available, a very service has been attained and is terference. This Commission has al-

country. Such a scheme goes a long of broadcasting stations, and it resity of a higher licence fee. The grammes are provided largely by relevant data obtained.

ments in the United Kingdom will be along the lines of forming a chain of high-power broadcasting stations throughout the country, each link consisting of two stations, located remote from centres of population, and transmitting simultaneously different classes of programmes on different wavelengths. Such a system would have many ideal features, enabling the great majority of the population to select, with equal facility, one of two different programmes from its local centre, and -without the drawback of one being overpowered by the other.

General Observations.

PROADCASTING stations in the United Kingdom, the United Commission to exercise a regulatory States, and Canada were visited, and control over broadcasting stations the policy and practice of broadcastsatisfactory standard of broadcasting with a view to minimising mutual in- ing in all its aspects discussed with authorities responsible for technical design and operation and for the proready done good work in reducing vision of programmes. In New York The conditions in New Zealand are the number of stations—until recent- two broadcasting stations, each of 50 relatively much more difficult. The ly about seven hundred—and the in- kilowatts output, and embodying smaller population means a smaller terference already referred to. No radically different principles of derevenue, and has involved the neces- fee is paid by the listener. Pro- sign, were seen in operation, and

At the Hague, Holland, a limited

3	(1)	(2)	. (3)	(4)	(5)	(6)	(7)		(9)	(10)	(11)
Country.	Radio Sets in Use.	Total Population.	Radio Sets per 100 of Population.	Radio Sets per 100 of Population, based on N.Z. Development (2.7 per cent.) and Rela- tive Population Densi- ties (Col. 6).	Area of Populated Territory in Sq. Miles	Population Density per Square Mile,	Radio Sets per Square Mile of Populated Territory.	Radio Sets per Square Mile based on N.Z. Development (0.4 per cent.) and Relative Population Densities (Col. 6).	Telephones per 106 of Population.	Percentage Ratio of Radio-set Develop- ment to Telephone.	License Fee.
New Zealand Australia Canada British Isles United States of America	40,000 150,000 140,000 3,000,000 5,500,000	1,500,000 6,000,000 9,000,000 48,000,000 114,000,000	2.7 2.5 1.5 6.2 4.8	2.7 1.1 1.2 7.2 6.8	100,000 1,000,000 1,250,000 120,000 3,026,000	15 6 7 400 38	0.4 0.15 0.112 25.0 1.8	0.4 0.16 0.18 11.0 1.1	9.2 6.1 12.2 3.0 14.8	29.3 41.0 12.3 206.6 32.4	£ s. d. 1 10 0 1 8 0* 0 4 2 0 10 0

Country.	enderen gerinnen familieren der en der e	Number of Broad- casting Stations.	Total Antenna Power in Watts.	Average Power in Watts per 1,000 Square Miles.	License Fee.
New Zealand Australia Canada British Isles United States of Am	nerica	11 21 48 21 700	6,900 8,690 21,500 36,000 510,000	69.0 8.6 17.2 300.0 168.0	£ s. d. 1 10 0 1 8 0* 0 4 2 0 10 0

*Average.

All tastes are being catered for, and what different angle. high quality of service is being maintained. By use of land relay lines a considerable amount of simulthe different stations throughout the tion has been placed upon the growth stage, it would appear that develop-

with the exception that the original strength in all parts of the country, constitute what is known as indirect broadcasting company, composed of the configuration of which is such advertising. various manufacturing firms, has now that only a small portion of the radigiven place to a representative Broad- ated energy is available over the land- and American systems are therefore casting Commission appointed by the masses of New Zealand. If anything entirely opposed in principle; but, as Gyernment, and having full powers like the same uniform standard is to each is providing a ratio broadcasting arry out the policy of broadcast- be obtained it is clear that the prob- service giving a very great measure in the interests of the public. lem must be attacked from a some- of satisfaction to the public at large,

relation to broadcasting is an en- propriate elements of each. taneous broadcasting is done from tirely different one. Little restric- As far as could be judged at this

On the commercial side the British it would appear that New Zealand could benefit by absorbing into its IN the United States the policy in future policy the best and most ap-

of broadcast programmes. arrangements were such that, upon the receipt of a call from another subscriber, the telephone reverted automatically to its normal use. A special subscription was charged for this service. In the United States, electric light and power wires were also being used to some extent for a similar purpose. These developments have not yet made a great impression upon the practice of broadcast reception.

The Interference Problem.

THERE seemed to be unanimous opinion among administrative officers responsible for the oversight of wireless broadcasting that the primary responsibility of the governing administration is to keep the course clear for the listener to the local broadcasting station rather than to cater for the inevitable but transitory stage of "long-distance hunt-The listener who habitually ing."

(Continued on next page.)