

Submarine Cables.—Four cable companies operate submarine cables landing in Canada: Cable and Wireless Limited; the Commercial Cable Company; the Western Union Telegraph Company; and the French Telegraph Cable Company. These companies operate to stations in the United Kingdom, Ireland, the United States, Bermuda, Australia, New Zealand and St. Pierre and Miquelon Islands. The number of cables operating between connected stations and the length of cables are given in the following table.

2.—Cable Landings in Canada, 1952

Company and Station	Cables	Nautical Miles
	No.	No.
Cable and Wireless Limited—		
Halifax, N.S. to Harbour Grace, N'fld. — Harbour Grace, N'fld. to Porthcurnow, England.....	1	2,917
Halifax, N.S. to Horta, Azores—Horta, Azores to Porthcurnow, England.....	1	3,223
Bamfield, B.C. to Sydney, Australia.....	1	7,837
Bamfield, B.C. to Auckland, New Zealand.....	1	6,768
Halifax, N.S. to Bermuda.....	1	877
Commercial Cable Company—		
Canso, N.S. to Port aux Basques, N'fld.....	1	200
Canso, N.S. to Waterville, Ireland, via St. John's, N'fld.....	2	4,502
Canso, N.S. to Far Rockaway, N.Y., U.S.A.....	3	2,891
Canso, N.S. to Horta, Fayal, Azores—Horta, Azores to Waterville, Ireland.....	2	5,873
St. John's, N'fld. to Waterville, Ireland.....	2	3,718
St. John's, N'fld. to Far Rockaway, N.Y., U.S.A.....	2	2,594
Western Union Telegraph Company—		
North Sydney, N.S. to St. Pierre and Miquelon Islands.....	2	396
North Sydney, N.S. to Island Cove, N'fld.....	2	634
North Sydney, N.S. to Colinet, N'fld.....	1	323
Canso, N.S. to Hammel, N.Y., U.S.A.....	2	1,594
Canso, N.S. to Duxbury, Mass., U.S.A.....	1	573
Canso, N.S. to St. Pierre and Miquelon Islands.....	1	254
North Sydney, N.S. to Canso, N.S.....	2	253
Hearts Content, N'fld. to Valentia, Ireland.....	4	7,505
Hearts Content, N'fld. to Rantem Hut, N'fld.....	3	76
Bay Roberts, N'fld. to Penzance, England.....	4	8,419
Bay Roberts, N'fld. to Horta, Azores.....	1	1,341
Bay Roberts, N'fld. to Hammel, N.Y.....	2	2,757
Placentia, N'fld. to St. Pierre and Miquelon Islands.....	2	249
Islands Cove Hut, N'fld. to St. Pierre and Miquelon Islands.....	1	130
French Telegraph Cable Company—		
Canso, N.S. to St. Pierre and Miquelon Islands.....	1	257

Section 2.—Telephones

A brief account of the early development of telephones in Canada is given in the 1934-35 Year Book, p. 781.

Telephony in Canada to-day is moving ahead at a pace matching that of national progress generally. New devices, new systems and new services are being introduced to provide more and better communications. Operator dialing of long-distance calls is an important step towards faster and more accurate continent-wide telephone service. New equipment and methods fit into a long-range program to enable operators to dial calls straight through to distant telephones in Canada or the United States without the assistance of other operators along the route.

One of the new devices playing an increasingly important role in this development is the transistor, a discovery of telephone research. This tiny and amazingly simple electronic amplifier, based on an entirely new principle, can perform efficiently many of the functions of the ordinary vacuum tube and do many other things besides. The transistor's small size, low power consumption and expected