

## 7.—External Cables Landed in Canada, 1961—concluded

Company and Station	Cables	Nautical Miles
	No.	No.
<b>Commercial Cable Company (CCC)—</b>		
St. John's, Nfld. to Waterville, Ireland.....	4 <sup>3</sup>	7,086
St. John's, Nfld. to New York, N.Y., U.S.A.....	2	2,587
Canso, N.S. via Azores to Ireland.....	2	3,426
Canso, N.S. to New York, N.Y., U.S.A.....	2	2,890
Canso, N.S. to St. John's, Nfld.....	2	913
<b>Western Union Telegraph Company (WU)—</b>		
Bay Roberts, Nfld. to Penzance, England.....	4	8,479
Bay Roberts, Nfld. to Hammil, N.Y., U.S.A.....	2	2,778
Bay Roberts, Nfld. to Azores.....	1	1,343
Heart's Content, Nfld. to Valencia, Ireland.....	4 <sup>3</sup>	7,541
Placentia, Nfld. to St. Pierre and Miquelon Islands.....	2	250
North Sydney, N.S. to St. Pierre and Miquelon Islands.....	3	594
North Sydney, N.S. via Canso to Duxbury, Mass., U.S.A.....	1	695
North Sydney, N.S. to Island Cove, Nfld.....	2	635
North Sydney, N.S. to Colinet, Nfld.....	1	323
Island Cove, Nfld. to St. Pierre and Miquelon Islands.....	1	130
<b>Eastern Telephone and Telegraph Company (ET&amp;T)—</b>		
Sydney Mines, N.S. via Clarenville, Nfld. to Oban, Scotland <sup>1</sup> .....	<sup>2</sup>	2,280
Sydney Mines, N.S. via Clarenville, Nfld. to Penmarch, France.....	2	2,400
<b>New Brunswick Telephone Company Limited (NBTEL)—</b>		
Campobello Island, N.B. to Lubec, Me., U.S.A.....	1	0.3

<sup>1</sup> Twin cable from Clarenville, Nfld. to Oban, Scotland and single cable from Clarenville, Nfld. via Terranceville, Nfld. to Sydney Mines, N.S.      <sup>2</sup> Licensed for operation by two carriers—COTC and ET&T.      <sup>3</sup> One cable unserviceable.

## Subsection 5.—Meteorological Communications

Weather stations operated by the Meteorological Branch of the Department of Transport throughout Canada are linked coast-to-coast by means of teletype and in the remote northern areas by radio or radioteletype. The landline teletype circuits are leased from commercial companies. The radio circuits are operated chiefly by the Telecommunications and Electronics Branch of the federal Department of Transport.

Weather stations on the teletype network transmit their reports directly; other stations report via commercial or radio facilities to the nearest station on the teletype line for subsequent transmission on the meteorological circuit. The reports are collected on a regional basis and then relayed to other parts of the country as required. There are two coast-to-coast teletype systems transmitting weather information, with main relay points at Vancouver, Edmonton, Winnipeg, Toronto, Montreal, Halifax, Gander and Goose Bay. These main meteorological communications centres not only handle the distribution of weather information within Canada including the Arctic, but also effect international exchange with the United States and Europe and, through them, with many other countries. For the latter purpose, the Canadian Meteorological Branch and the British Meteorological Office share the cost of a leased duplex circuit in the transatlantic cable. Altogether, the Meteorological Branch uses 54,000 miles of teletype circuits connecting 351 teletype offices.

In addition, a facsimile network connects forecast offices including radio facsimile transmission to Arctic stations and ships at sea. Weather charts originating at the Central Analysis Office in Montreal receive national distribution over this network. Regional transmissions of additional charts are distributed on a local basis. Altogether, the Meteorological Branch utilizes 13,100 miles of facsimile circuits, serving 66 offices.