

3.—Aerodromes by Province as of September 1955—concluded

Operator	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	N.W.T.	Yukon	Canada
United States Air Force—													
Land.....	1	—	—	—	—	—	—	—	—	—	—	—	1
Water.....	—	—	—	—	—	—	—	—	—	—	1	—	1
United States Navy—													
Land.....	1	—	—	—	—	—	—	—	—	—	—	—	1
Water.....	1	—	—	—	—	—	—	—	—	—	—	—	1
Totals, Landing Areas...	10	4	8	11	57	136	46	33	44	67	36	27	479
Land.....	5	4	7	9	39	82	22	28	34	54	16	23	323
Water.....	5	—	1	2	18	54	24	5	10	13	20	4	156
Auxiliary Facilities													
Hard-surfaced Aerodromes—													
Land.....	4	2	7	6	19	43	13	13	14	23	3	2	149
Lighted Aerodromes—													
Land.....	5	2	3	4	17	42	10	12	20	21	9	5	150
Water.....	1	—	1	—	—	—	—	—	—	—	—	—	2

Air Traffic Control.—The primary functions of Air Traffic Control Service of the Department of Transport are to expedite and maintain an orderly flow of air traffic and to prevent collision between aircraft operating within controlled airspace and between aircraft and obstructions on the movement area of controlled airports. This is accomplished through provision of airport control, approach control and area control services, together with flight information, alerting for search and rescue, customs notification and aircraft identification. These services are described as follows:—

Airport Control is designed particularly to provide air-traffic control service in the vicinity of major civil airports where the volume and type of aircraft operations, together with weather conditions and other factors, indicate its need in the interest of safety. The service includes the control of pedestrians and vehicles on the manoeuvring area of the airport. Control is effected by means of direct radio-telephone communication or visual signals to aircraft and surface vehicles on and in the vicinity of controlled airports. The control towers are located at Patricia Bay and Vancouver, B.C.; Lethbridge, Calgary and Edmonton, Alta.; Saskatoon and Regina, Sask.; Winnipeg, Man.; Lakehead, Windsor, London, Toronto, Toronto Island, Ottawa and North Bay, Ont.; Montreal, Cartierville, Quebec and Seven Islands, Que.; Moncton, N.B.; Sydney, N.S.; and Gander, Nfld. Most of these control towers are in continuous operation but a few provide 16 hour daily service only.

Approach Control is provided by the North Bay and Ottawa approach control towers. This service is in addition to the regular airport control service provided at these locations. Approach control service consists of the provision of standard IFR separation to aircraft operating in accordance with the Instrument Flight Rules within the local approach control area of the airport.

Area Control is designed particularly to provide air-traffic control service to aircraft operating within controlled airspace during weather conditions which prevent a pilot from seeing other aircraft or obstructions and necessitate his reliance on instruments to conduct the flight. Area control centres are located at Vancouver, B.C.; Edmonton, Alta.; Winnipeg, Man.; Toronto, Ont.; Montreal, Que.; Moncton, N.B.; and Gander, Nfld. Each centre is connected with the control towers, radio range stations and operations offices within its area by means of an extensive system of local and long-line interphone or radio circuits and through the radio communication facilities available at these offices to all aircraft requiring area control service. Each area control centre is similarly connected with the adjacent centres, including centres in the United States, for the purpose of co-ordinating the control of aircraft operating through more than one control area. This communications system permits each centre to maintain a continuous detailed record of the movements of all aircraft operating in accordance with the Instrument Flight Rules, and a general record of the movements of all aircraft operating in accordance with the Visual Flight Rules within its control area. In addition to providing area control service to aircraft operating within the controlled airspace over Newfoundland, the Gander area control centre provides this service within the airspace over approximately one-half of the North Atlantic Ocean. Area control service is provided for approximately 15,000 miles of airways, air routes and control channels.