

Manufacture of Aircraft.—An aircraft industry, to construct in Canada the aircraft and equipment required for aviation, is essential to the sound development of flying. Canadian Vickers, the pioneer firm in Canada, maintain their own designing department and have produced several original types especially suited for operation in Canada. The increased interest and the growing operations of the Dominion and Provincial Governments and commercial operators led to the establishment of increased manufacturing facilities. Several aircraft constructors from England and the United States have formed branches in Canada for the assembly and service of their products. The De Havilland Aircraft of Canada, Ltd., established a plant in Toronto for the service and assembly of their aircraft chiefly of the "Moth" light-aeroplane type. The Curtiss Reid Aircraft Co., established a factory in Cartierville, Que., the Fairchild Aircraft Ltd., at Longueuil, Que., the Boeing Aircraft of Canada, Ltd., at Vancouver; Ottawa Car Manufacturing Co., at Ottawa, for manufacture of A. V. Roe aircraft. Aero engine factories are established for construction or assembly and service of their products as follows: Armstrong-Siddeley Motors, Ltd., at Ottawa; Aero Engines of Canada, Ltd., at Montreal, for "Wright" and "Bristol" engines; Canadian Pratt and Whitney Aircraft Co., Ltd., at Longueuil, Que.

38.—Statistical Summary of Civil Aviation in Canada, 1926-31.

Item.	1926.	1927.	1928.	1929.	1930.	1931.
General Analysis.						
Firms manufacturing aircraft.....	2	2	4	8	7	7
Firms chiefly operating aircraft.....	14	20	53	81	100	100
Firms using aircraft as auxiliary service.....	2	1	1	4	4	4
Aircraft flights made.....	4,755	16,748	75,285	144,143	156,174	144,080
Aircraft hours flown.....	5,850	12,070	43,071	79,786	92,983	73,645
Approximate aeroplane mileage.....	30,290	209,583	1,557,917	4,083,321	5,222,635	5,283,958
Approximate float seaplane mileage.....	356,481	247,238	797,998	1,768,733	2,024,219	1,553,721
Approximate boat seaplane mileage.....	-	372,189	352,029	426,064	286,628	180,620
Approximate amphibian mileage.....	6,332	-	20,341	5,956	13,938	30,950
Total aircraft mileage.....	393,103	829,010	2,728,414	6,284,079	7,547,420	7,046,276
Average flight duration (minutes).....	74	43	32	33	36	30
Pilots carried.....	4,755	16,748	75,285	144,143	156,574	144,080
Passengers and crew carried.....	6,436	18,032	74,669	124,751	124,875	100,128
Total personnel carried.....	11,191	35,680	149,954	268,894	281,449	244,208
Pilots carried one mile (pilot-miles).....	393,103	829,010	2,728,414	6,284,079	7,547,420	7,046,276
Passengers and crew carried 1 mile (passenger-miles).....	631,715	1,424,031	2,883,782	6,114,997	5,408,676	4,073,552
Total personnel carried 1 mile (personnel-miles).....	1,024,818	2,253,041	5,612,196	12,399,076	12,956,096	11,119,828
Total freight or express carried (lb.).....	724,721	1,098,346	2,404,682	3,903,908	1,759,259	2,372,467
Total mail carried (lb.).....	3,960	14,684	316,631	430,636	474,199	470,461
Licensed Civil Air Harbours.						
Total air harbours (all types).....	34	36	44	77	77	78
Licensed Civil Aircraft.¹						
Aeroplanes (single-engined).....	15	30	124	281	316	286
Aeroplanes (triple-engined).....	-	-	3	2	2	1
Float seaplanes (single-engined).....	-	16	100	119	183	190
Boat seaplanes (single-engined).....	28	21	33	37	21	23
Amphibians (single-engined).....	1	-	4	6	5	5
Total aircraft (all types).....	44	67	264	445	527	495
Licensed Civil Air Personnel.						
Pilots only (flying machines).....	20	43	258	349	408	465
Pilot-Air Engineers.....	18	29	70	96	131	134
Air Engineers only (flying machines).....	65	74	130	212	241	236
Total licensed personnel.....	103	148	458	657	780	835
Unlicensed air mechanics employed.....	43	59	8	150	164	131

¹These figures show duplication, since in several instances the aircraft are used both as landplanes and seaplanes.