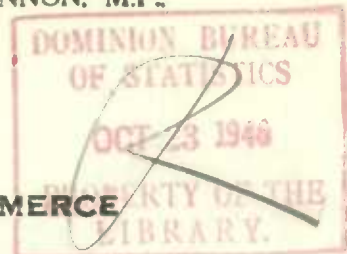


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Minister of Trade and Commerce



CANADA
DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS
TRANSPORTATION & PUBLIC UTILITIES BRANCH

CIVIL AVIATION
IN
CANADA
1945



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DOMINION BUREAU OF STATISTICS
TRANSPORTATION AND PUBLIC UTILITIES BRANCH
OTTAWA

Dominion Statistician, HERBERT MARSHALL, O.B.E., B.A., F.S.S.

Chief, Transportation and Public Utilities Branch, C.S. Wrong, B.Sc.

CIVIL AVIATION IN CANADA

20-1500

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The statistics in this report are collected from the operators of aircraft with commercial operators' licences with the exception of data on licences which are supplied by the Civil Aviation Division of the Department of Transport. That division has jurisdiction over the licensing of all airports, aircraft pilots and engineers and, consequently, the licensed aircraft and pilots also include private aircraft and pilots.

The commercial carriers have been divided into three classes: scheduled, non-scheduled and foreign. Scheduled carriers are those operating a scheduled service between designated points, although they may also operate some non-scheduled services. Non-scheduled carriers are those licensed to operate only non-scheduled services. Under foreign carriers are comprised the routes operated by United States companies between United States and Canadian airports. The international operations of Canadian carriers except Trans-Atlantic services are included in the data for scheduled carriers. Non-commercial carriers include provincial government forestry patrol services and the air operations of mining companies. All Canadian commercial carriers are under the jurisdiction of the Air Transport Board and are required to keep records and accounts in accordance with the Board's regulations.

The end of the war came too late in the year to allow any important revival of civil aviation to be reflected in the statistics in this report. However, the civilian flying clubs, restricted during the war, have started activities again and a slight increase in instructional flying time is reported for 1945, although the total is still only a small fraction of that reported for 1940.

Operators in the northern districts of Canada are engaged mainly in serving mines, trappers, prospectors, etc., the mines supplying the greater part of their traffic. Their aircraft are equipped with floats in the summer and skis in the winter and lakes serve as landing surfaces. Consequently there are periods each spring and fall when ice conditions make operation impossible. All flying under these conditions is daylight flying. These aircraft have carried all kinds of freight, including shipments of gold, horses and cattle, canoes, mining machinery, bundles of furs, dynamite, etc. They furnish the most economical transportation service to many northern mines and it is this traffic, coupled with construction of air bases in the north country during the war years, which accounts for the heavy freight traffic by air as compared with freight carried by aircraft in other countries.

Time and miles for foreign operators are only over Canadian territory. The time must necessarily be estimated but any error should be small. American companies report the gasoline and oil purchased in Canada only. This amount, together with that used by the Canadian operators, is the total consumption by civil aircraft exclusive of private and Dominion Government aircraft. Consumption by military aircraft is also not included. The international operations of Canadian carriers include complete data for their operation in the United States. In the monthly reports for 1945, the Canadian portion only was included, so that the totals of these will not correspond to that given in this report.

Excess baggage is included with freight. International mail includes both incoming and outgoing mail. Passengers carried by international operators include passengers in both directions, and for companies flying between United States points via Canada they include through passengers on board while flying over Canadian territory.

The number of revenue passengers carried during the year was 490,809, compared to 371,397 in 1944 and 282,886 in 1943. The increase over the previous year was 32 per cent, slightly bettering the percentage increase of 31 per cent in 1944. Revenue passenger miles totalled 153,504,833, compared

with 111,127,010 in 1944, an increase of 38 per cent. Part of this increase, however, must be attributed to the already mentioned change in the data for 1945 to include mileage of Canadian international routes made in the United States. If this is excluded the increase over 1944 would be 28 per cent.

Pounds of freight carried showed an increase over the previous year, the first of such since 1941, but there was a small decline in ton miles. Mail pounds carried was lower than in 1944 although there was a slight increase in ton miles.

Operating revenues of Canadian carriers increased to \$17,335,154 in 1945, compared to \$17,119,291 in 1944. Operating expenses decreased to \$17,520,689 from \$17,847,346, reducing the net operating deficit from \$728,055 to \$185,535. Revenues include \$449,060 from repairs and service sales and sale of fuel and oil. Expenses against these items of \$59,265 are included in operating expenses.

The number of employees of Canadian carriers was 4,430 compared with 4,201 at the end of 1944. Wages and salaries paid amounted to \$9,252,371, compared with \$8,355,928. The scheduled carriers account for all but a small portion of the amounts shown. Not included in the above totals are the employees of American companies who are domiciled in Canada. There were 67 of these in 1945 who were paid \$185,021, compared with 131 paid \$253,116 in 1944.

TABLE 1.

STATISTICAL SUMMARY OF CIVIL AVIATION IN CANADA, 1945.

	1945	1944	1943	1942	1941	1940	1939
<u>Aircraft Miles flown</u> - Revenue	18,818,970	15,568,559	14,584,115	12,781,867	11,810,668	10,341,529	
Non revenue	1,468,462	620,803	709,434	547,276	697,722	671,258	
Total	20,087,432	16,189,362	15,293,549	13,329,143	12,508,390	11,012,587	10,969,271
<u>Passengers carried</u> - Revenue	490,809	371,397	282,886	198,205	181,219	135,779	133,776
Between foreign stations	16,711	20,846	19,581	17,497	11,792	1,840	
Company Employees	15,283	8,740	9,011	8,961	(((
Other non revenue	2,604	2,955	3,564	4,384	(15,048	(11,406	(27,727
Total	525,407	403,938	314,642	229,047	208,059	149,025	161,503
<u>Passenger Miles</u> - Revenue	153,504,833	111,127,010	100,530,892	70,554,377	53,891,516	38,438,459	21,840,483
Company Employees	5,124,620	2,215,907	1,992,061	1,601,277	(((
Other non revenue	533,992	543,412	867,511	1,050,947	(2,832,198	(2,727,363	(4,267,266
Total	159,163,445	113,886,329	103,390,464	73,206,601	56,723,714	41,165,802	26,107,750
<u>Freight carried</u> - Revenue	12,615,119	10,522,932	11,546,777	11,055,142	14,719,700	12,978,856	
Between foreign stations	399,639	659,970	791,498	352,859	106,550	11,715	
Non revenue	1,447,642	1,247,743	1,515,288	1,243,938	1,733,361	1,446,020	
Total	14,462,400	12,430,645	13,853,563	12,651,939	16,559,611	14,436,571	21,253,564
<u>Freight Ton Miles</u> - Revenue	1,537,145	1,406,679	1,500,179	1,125,912	956,482	784,922	
Non revenue	313,072	261,507	218,141	148,038	169,055	161,273	
Total	1,650,217	1,668,186	1,718,320	1,273,950	1,125,537	946,195	1,037,562
<u>Mail carried</u>	6,418,944	7,296,265	7,586,809	5,470,209	3,411,971	2,710,995	1,900,347
Ton Miles	2,096,289	2,072,129	2,103,867	1,484,314	894,578	610,053	433,349
<u>Hours flown by Aircraft</u> - Transportation Revenue	125,570	105,615	101,169	92,314	88,536	80,796	
Non revenue	12,391	5,308	6,438	5,127	7,049	6,871	
Forestry Patrol	6,578	5,351	4,352	4,595	6,835	13,461	
Fishery	106	146	115	120	147	169	
Photography Survey	585	668	628	559	508	765	
Instruction	6,750	4,291	3,192	13,690	27,927	47,954	
Exhibition - Miscellaneous	590	843	788	1,371	1,821	1,812	
Total	152,570	122,422	116,662	117,876	132,823	151,826	145,638
Hours flown by Crew	369,148	279,943	257,815	235,573	241,154	226,534	
" " " Passengers	1,048,344	712,573	562,337	480,534	379,777	300,904	
Horse Power Hours flown by Aircraft (000)	216,288	183,556	165,487	127,246	113,797	105,451	
Gasoline consumption	7,855,067	6,169,555	5,661,301	4,653,555	4,389,648	3,959,798	3,148,238
Lubricating oil consumption	121,963	100,240	117,050	104,441	104,758	92,719	66,902
<u>Flying Accidents</u>							
Passengers Killed	2	-	2	12	14	9	8
" Injured	9	5	3	6	10	6	6
Crew Killed	2	2	3	8	10	4	6
" Injured	4	1	1	4	5	5	3
Other Persons Killed	-	-	3	-	-	-	-
" Injured	-	-	-	-	-	-	-
Total Killed	4	2	8	20	24	13	14
" Injured	13	6	4	10	15	9	9

(1) For Canadian Carriers only except 658,111 gallons purchased by Foreign Carriers in Canada in 1945.

TABLE 2

AIRCRAFT MILES, PASSENGERS, FREIGHT AND MAIL

	Canadian Carriers			Foreign International (2)	Total
	Commercial		Non- commercial		
	(1) Scheduled	Non-scheduled			
	A	B	C	D	E
<u>Aircraft Miles flown</u> - Revenue Transportation	18,331,297	938,341	-	1,349,332	18,618,970
Non revenue "	1,274,432	38,010	148,990	7,030	1,468,462
Total	17,605,729	976,351	148,990	1,356,362	20,087,432
<u>Passengers carried</u> - Revenue	330,744	18,716	-	141,349	490,809
Received from Canadian Carriers (2)	16,405	-	-	13,692	30,097
Between foreign stations	-	-	-	16,711	16,711
Company Employees	9,042	458	2,999	2,784	15,283
Other non revenue	1,264	197	674	469	2,604
Total	341,050	19,371	3,673	161,313	525,407
<u>Passenger Miles</u> - Revenue	130,912,167	866,789	-	21,725,877	153,504,833
Company Employees	3,904,922	39,774	156,764	1,023,160	5,124,620
Other non revenue	411,082	33,996	43,152	45,762	533,992
Total	135,228,171	940,559	199,916	22,794,799	159,163,445
<u>Freight carried (lbs.)</u> - Revenue	10,800,763	1,164,581	-	649,775	12,615,119
Received from Canadian Carriers (2) ..	120,568	-	-	7,945	128,513
Between foreign stations	-	-	-	399,639	399,639
Non revenue	840,199	15,695	429,765	161,983	1,447,642
Total	11,640,962	1,180,276	429,765	1,211,397	14,462,400
<u>Freight Ton Miles</u> - Revenue	1,198,637	36,936	-	101,572	1,337,145
Non revenue	243,728	622	11,982	56,740	313,072
Total	1,442,365	37,558	11,982	158,312	1,650,217
<u>Mail carried (lbs.)</u>	5,114,453	81,149	-	1,223,342	6,418,944
<u>Mail Ton Miles</u>	1,789,282	1,968	-	305,039	2,096,289
<u>Hours flown by Aircraft</u> - Transportation Revenue	110,211	6,313	-	9,045	125,569
" Non revenue	10,512	343	1,478	58	12,391
Forestry Patrol	-	165	6,413	-	6,578
Fishery Patrol	-	74	32	-	106
Photography - Survey	375	210	-	-	585
Instruction	-	6,719	5	26	6,750
Exhibition - Miscellaneous	-	158	374	59	591
Total	121,098	13,982	8,302	9,188	152,570
<u>Hours flown by Crew</u>	293,649	10,344	8,386	56,769	369,148
" " " Passengers	860,482	11,794	1,730	173,979	1,048,345
Horse Power Hours flown (1000)	153,780	-	30,004	32,504	216,288
Gasoline consumption (Gallons)	6,869,665	163,622	163,669	658,111	7,855,067
Lubricating oil consumption (Gallons)	112,771	4,253	4,063	876	121,363
<u>Cost of Property</u> - Aircraft	3,115,103	199,441	53,008	Not Collected	3,367,552
Aircraft engines	1,213,199	24,433	4,840		1,242,472
Aircraft Communication Equipment	260,501	3,061	647		264,209
Buildings and Improvement	1,600,811	59,373	6,127		1,666,311
Land	71,228	6,350	5,000		82,578
Miscellaneous	1,048,405	41,838	2,267		1,092,510
Total	7,309,247	354,496	71,889		7,715,632

(1) Includes both domestic and international route statistics.

(2) Operations in Canada only.

TABLE 3.

OPERATING REVENUES

	Canadian Carriers		
	Scheduled	Non-scheduled	Total
<u>Transportation</u> - Passenger	8,454,446	153,161	8,607,607
Excess Baggage	54,597	183	54,780
Mail	5,542,716	13,724	5,556,440
Freight	1,297,850	75,470	1,373,320
Other Air Services	139,938	120,861	260,799
Total	15,489,547	363,399	15,852,946
<u>Incidental</u> - Repairs and Services	356,737	169,897	526,634
Fuel and Oil Sales	92,323	16,941	109,264
Rents	244,271	5	244,276
Miscellaneous	253,971	348,063	602,034
Total	947,302	534,906	1,482,208
Grand Total	16,436,849	898,305	17,335,154

TABLE 4.

OPERATING EXPENSES

<u>Aircraft Operation and Maintenance</u> - Flying Personnel	1,481,191	64,522	1,545,713
Aircraft Engine Fuel	2,068,036	54,561	2,122,597
" " Oil	95,059	3,916	98,975
" Repairs	1,546,944	36,784	1,583,728
" Engine Repairs	1,037,999	23,948	1,061,947
Misc. Flying Equipment Repairs ..	39,247	854	40,101
Flying Equipment Insurance	381,961	25,938	407,899
Liability & Compensation "	175,436	10,147	185,583
Other Flying Expenses	75,507	2,634	78,141
Aircraft Depreciation	937,178	42,773	979,951
Aircraft Engine "	470,669	10,217	480,886
Misc. Flying Equipment Depreciation	1,801,556	34,390	1,835,946
Total	10,110,783	310,684	10,421,467
<u>Ground Operation and Maintenance</u> - Superintendence	492,868	7,110	499,978
Airport and Hanger Employees	1,143,243	10,870	1,154,113
Communication Operators	426,506	-	426,506
Travelling and Office Expenses	596,715	7,014	603,729
Light, Heat, Power and Water	143,638	6,927	150,565
Rent of Equipment	36,992	307	37,299
Miscellaneous Ground Equipment Repairs	64,019	469	64,488
Buildings and other Improvement Repairs	85,875	8,863	94,738
Shop Expenses	340,532	36,766	377,298
Stores "	187,961	6,351	194,312
Ground Liability and Compensation Insurance	43,113	4,216	47,329
Other Ground Expenses	273,991	5,270	279,261
Depreciation of Ground Facilities	835,927	22,698	858,625
Total	4,671,380	116,861	4,788,241
<u>Incidental Services</u> - Repair and Service Sales	59,265	71,302	130,567
Other Incidental Services	166,927	336,438	503,365
Total	226,192	407,740	633,932
<u>Traffic Expenses</u> - Salaries and Wages	403,591	25	403,616
Travelling and Office Expenses	110,896	290	111,186
Advertising	92,499	2,530	95,029
Traffic Charges from other Companies	-	-	-
Other Traffic Expenses	111,824	1,807	113,631
Total	718,810	4,652	723,462
<u>General Administration</u> - Salaries and Wages	436,010	56,413	492,423
Travelling and Office Expenses	96,785	29,751	126,536
Office Rentals	21,153	1,029	22,182
Administration chgs. from other Companies	50,304	-	50,304
Uncollectible Operating Revenues	Cr. 89	1,078	989
Other General and Administration Expenses	185,074	14,403	199,477
Total	789,237	102,674	891,911
General Taxes	61,038	658	61,696
Total Operating Expenses	16,577,440	943,249	17,520,689

TABLE 5.

INCOME ACCOUNT

	Canadian Carriers		
	Scheduled	Non-Scheduled	Total
Operating Revenues	16,436,849	898,305	17,335,154
Operating Expenses	16,577,440	945,249	17,520,689
Net Operating Revenue	Dr. 140,591	Dr. 44,944	Dr. 185,535
Interest and Dividend Income	50,218	251	50,449
Miscellaneous Income	111,296	2,979	114,275
Gross Income	Cr. 925	Dr. 41,754	Dr. 40,811
<u>Deductions -</u>			
Miscellaneous Income Charges	176,267	1,304	177,571
Interest on Long Term Debt	230,000	-	230,000
Miscellaneous Interest Charges	2,839	2,626	5,465
Total Deductions	409,106	5,930	415,036
Net Income before Income Taxes	Dr. 408,185	Dr. 45,684	Dr. 453,847
Income Taxes	-	3,955	3,955
Balance to Profit and Loss	Dr. 408,185	Dr. 49,599	Dr. 457,782

TABLE 6.

FLYING ACCIDENTS

	Scheduled	Non-scheduled		Inter-national	Total
		Commercial	Non-commercial		
Accidents resulting in Death or Injury	3	3	-	-	6
Accidents resulting in Property Damage only	23	5	-	-	28
<u>Revenue Transportation -</u>					
Persons Killed - Crew	-	-	-	-	-
Passengers	1	1	-	-	2
Persons Injured- Crew	3	1	-	-	4
Passengers	9	-	-	-	9
<u>Non-Revenue Transportation -</u>					
Persons Killed - Crew	2	-	-	-	2
Other Persons	-	-	-	-	-
Persons Injured- Crew	-	-	-	-	-
<u>All Flying -</u>					
Persons Killed	3	1	-	-	4
Persons Injured	12	1	-	-	13
<u>Non-flight Accidents -</u>					
Persons Killed	-	-	-	-	-
Persons Injured	-	-	-	-	-

TABLE 7

LICENSED CIVIL AIRCRAFT IN CANADA
(as at Dec. 31, 1945)

Aircraft	Dominion and Provincial	Private	Flying Clubs	Commercial	Total
<u>Gross Weight</u>					
Up to 2,000 lb.	13	10	29	117	169
2,001 to 4,000 lb.	9	4	-	34	47
4,001 to 10,000 "	32	-	2	77	111
Over 10,000 lb.	4	-	-	50	54
Total	58	14	31	(1) 278	(1) 381
<u>Types</u>					
Seaplanes	10	-	-	8	18
Amphibians	-	-	-	4	4
Landplanes	17	9	29	154	209
Convertibles	31	5	2	112	150
Total	58	14	31	(1) 278	(1) 381

(1) Includes 96 aircraft of scheduled carriers and 50 of non-scheduled carriers in service.

TABLE 8.

EMPLOYEES

	Canadian Carriers							
	Scheduled		Non-Scheduled				Total	
	No. of Employees	Salaries & Wages	Commercial		Non-Commercial		No. of Employees	Salaries & Wages
			No. of Employees	Salaries & Wages	No. of Employees	Salaries & Wages		
		\$		\$		\$		\$
General Officers	116	635,002	12	38,077	6	21,735	134	694,814
Clerks	604	912,370	20	24,006	5	7,685	629	944,061
Pilots	158	1,015,753	26	62,722	29	79,162	213	1,157,637
Co-pilots	114	401,976	-	-	-	-	114	401,976
Despatchers	50	113,051	1	300	-	-	51	113,351
Communication operators ...	316	519,769	-	-	-	-	316	519,769
Stewards or other attendants	98	166,406	-	-	-	-	98	166,406
Air Engineers	176	395,397	15	29,748	31	68,617	222	493,762
Mechanics	1,456	2,844,439	67	88,937	15	31,484	1,538	2,964,860
Airport employees	643	972,139	6	6,395	-	-	649	978,534
Stores employees	115	175,491	9	13,921	-	-	124	189,412
Other employees	288	544,369	50	76,133	4	7,287	342	627,789
Total	4,134	8,696,162	206	340,239	90	215,970	x 4,430	9,252,371

x -Exclusive of 67 employees paid \$185,021 - Canadian domiciled employees of International carriers.

TABLE 9

AIRPORTS IN CANADA
(as at Dec. 31, 1945)

	Landing Surfaces			
	Land Only	Water Only	Land and Water	Total
	No.	No.	No.	No.
Public	15	14	-	27
Dominion Government	22	4	-	26
Intermediate	49	-	-	49
Provincial	-	7	-	7
Private	7	17	-	24
Municipal Airports	8	3	2	13
Total	99	45	2	146

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