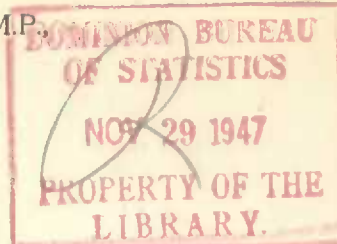


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CANADA
DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS
TRANSPORTATION & PUBLIC UTILITIES BRANCH

CIVIL AVIATION
IN
CANADA
1946



OTTAWA
1947

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DOMINION BUREAU OF STATISTICS
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Dominion Statistician, HERBERT MARSHALL
Chief, Transportation and Public Utilities Branch, G.S.Wrong

20-1500

CIVIL AVIATION IN CANADA

1946

The civil aviation statistics for 1946 are presented in this report in considerable more detail than in previous years.

This Bureau, in collaboration with the Air Transport Board, has published for each month reports showing certain statistics of each scheduled Canadian carrier and the total of other air carriers operating in Canada. This report includes statistics on the same basis as the monthly reports, and in addition statistics for non commercial operators. Statistics of Trans-atlantic routes are not included in this report. Corrections in the monthly data have been made in this report.

No statistics for flying clubs are included for 1946. These clubs were inactive as such during the war years and the records of many were quite incomplete for the time they were operating during 1946.

Freight or goods includes freight, express, and excess baggage, and also mail matter when carried for other persons than post office department.

Statistics in Table 1 are comparative throughout. In this table passengers and freight received from other air carriers are not included in the totals although these data are shown for each carrier and also in the totals in Table 6.

The Trans-Canada Air Lines was being organized when war was declared in 1939 and the development up to the close of 1945 was greatly influenced by war conditions. Consequently there is no appropriate comparison for 1946 traffic and operating conditions. Much of the business of the other air carriers was also on a different footing in 1946 than in the previous year.

As shown in Table 1 there has been a tremendous increase in all phases of the operations. Revenue aircraft miles flown increased between 1940 and 1946 from 10,341,329 to 25,844,570 miles or by 150 per cent. Revenue passengers carried increased from 135,779 to 802,811 (exclusive of traffic between foreign ports) or by 494 per cent, revenue passenger miles from 38,438,439 to 206,776,408 or by 438 per cent, revenue freight ton miles by 141 per cent, and mail ton miles by 151 per cent. The major portion of these increases was in the intercity traffic of the Trans-Canada Air Lines which was only in the development stage in 1940. Comparisons with 1945 operations show increases in revenue aircraft miles flown of 39 per cent, in passengers carried of 64 per cent, in passenger miles of 35 per cent, and in freight ton miles of 42 per cent, but mail ton miles declined by 27 per cent.

The ratio of available seat miles to revenue passenger miles, known as the revenue passenger load factor, was computed for scheduled routes which were primarily passenger. For routes with heavy freight traffic, in relation to passenger traffic, it is not practicable to compute available seat miles, and consequently for the Canadian Pacific Air Lines Company the load factor was based on only 26 per cent of its total revenue passenger miles. For the other carriers the factor was based on 100 per cent of their respective revenue passenger miles. Where traffic does not develop as quickly as additional facilities in schedules and seating capacity are supplied, the load factor is reduced. The load factor of the Trans-Canada Air Lines at 76.4 per cent was considerably higher than for the other Canadian carriers and also higher than for the United States carriers operating international routes.

There were 3 passengers and 6 crew killed in flying accidents during the year and 9 passengers and 3 crew injured. This total of 9 persons killed is comparable with 4 in 1945 and 13 in 1940. On a revenue passenger mile basis one revenue passenger was killed for each 68,925,000 passenger miles flown in 1946, for each 76,752,000 passenger miles in 1945 and for each 4,271,000 passenger miles in 1940. In railway train accidents in 1946 one passenger was killed for each 2,324,279,000 passenger miles. For both modes of travel the number of passengers killed is so small that a change of one or two makes a tremendous difference in these averages, but this is about the only basis on which to make a comparison of the relative hazards.

TABLE 1.

STATISTICAL SUMMARY OF CIVIL AVIATION IN CANADA, 1946

	1946	1945	1944	1943	1942	1941	1940
<u>Aircraft Miles flown</u> - Revenue	25,844,570	18,618,970	15,568,559	14,584,115	12,781,867	11,810,668	10,341,329
Non revenue	2,567,423	1,468,462	620,803	709,434	547,276	697,722	671,258
Total	28,411,993	20,087,432	16,189,362	15,293,549	13,329,143	12,508,390	11,012,587
<u>Passengers carried</u> - Revenue	802,811	490,809	371,397	282,886	198,205	181,219	135,779
Between foreign stations	6,673	16,711	20,846	19,381	17,497	11,792	1,840
Company Employees	23,838	15,283	8,740	9,011	8,961	((
Other non revenue	3,226	2,604	2,955	3,364	4,384	(15,048	(11,406
Total	836,548	525,407	403,938	314,642	229,047	208,059	149,025
<u>Passenger Miles</u> - Revenue	206,776,408	153,504,833	111,127,010	100,530,892	70,554,377	53,891,516	38,438,439
Company Employees	8,528,952	5,124,620	2,215,907	1,992,061	1,601,277	((
Other non revenue	442,621	533,992	543,412	867,511	1,050,947	(2,832,198	(2,727,363
Total	215,747,981	159,163,445	113,886,329	103,390,464	73,206,601	56,723,714	41,165,802
<u>Freight carried</u> - Revenue	23,437,925	12,615,119	10,522,932	11,546,777	11,055,142	14,719,700	12,978,836
Between foreign stations	181,260	399,639	659,970	791,498	352,859	106,550	11,715
Non revenue	1,607,801	1,447,642	1,247,743	1,515,288	1,243,938	1,733,361	1,446,020
Total	25,226,986	14,462,400	12,430,645	13,853,563	12,651,939	16,559,611	14,436,571
<u>Freight Ton Miles</u> - Revenue	1,892,391	1,337,145	1,406,679	1,500,179	1,125,912	956,482	784,922
Non revenue	420,286	313,072	261,507	218,141	148,038	169,055	161,273
Total	2,312,677	1,650,217	1,668,186	1,718,320	1,273,950	1,125,537	946,195
<u>Mail carried</u>	5,930,338	6,418,944	7,296,265	7,586,809	5,470,209	3,411,971	2,710,995
Ton Miles	1,534,919	2,096,289	2,072,129	2,103,867	1,484,314	894,578	610,053
<u>Hours flown by Aircraft</u> - Transportation Revenue	164,648	125,570	105,815	101,169	92,314	88,536	80,796
Non revenue ..	20,929	12,391	5,308	6,438	5,227	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	(26,011	585	668	628	559	508	765
Instruction .....	(	6,750	4,291	3,192	13,690	27,927	47,954
Exhibition - Miscellaneous ..	(	590	843	768	1,371	1,821	1,812
Total	211,588	152,570	122,422	116,662	117,876	132,823	151,828
<u>Hours flown by Crew</u>	449,844	369,148	279,943	257,815	235,573	241,154	226,534
" " " Passengers	1,302,358	1,048,344	712,373	562,337	480,534	379,777	300,904
Horse Power Hours Flown by Aircraft (000)	(2)	216,288	183,556	165,487	127,246	113,797	105,451
Gasoline consumption	11,556,480	7,855,067	6,169,355	5,661,301	4,653,555	4,389,648	3,959,798
Lubricating oil consumption	155,206	121,963	100,240	117,050	104,441	104,758	92,719
<u>Flying Accidents</u>							
Passengers Killed	3	2	-	2	12	14	9
" " Injured	9	9	5	3	6	10	6
Crew Killed	6	2	2	3	8	10	4
" " Injured	3	4	1	1	4	5	5
Other Persons Killed	-	-	-	3	-	-	-
" " Injured	-	-	-	-	-	-	-
Total Killed	9	4	2	8	20	24	13
" " Injured	12	13	6	4	10	15	9

(1) For Canadian Carriers only except that purchased by Foreign Carriers in Canada in 1945 and 1946.

(2) Not Available.

CIVIL AVIATION, 1946

GENERAL BALANCE SHEET, 1946

TABLE 2

	Canadian Pacific Air Lines (including Quebec Airways)	Maritime Central	M & C Aviation	Trans-Canada Air Lines	Total Scheduled Air Lines	Other Canadian Carriers	Grand Total Canadian Carriers
ASSETS							
Current and Accrued Assets	2,880,411	58,585	55,415	4,365,625	7,340,034	520,207	7,860,241
Investments	733,096	437	23,088	6,287	762,908	41,888	804,796
Deferred Debits	13,166	18,002	5,438	503,528	540,134	118,407	658,541
Special Funds	-	-	-	1,514,273	1,514,273	5,418	1,519,691
Fixed Assets less Depreciation	4,012,954	185,777	76,695	7,537,109	11,812,535	1,284,072	13,096,607
Total	7,639,627	262,799	140,636	13,926,822	21,969,884	1,969,992	23,939,876
LIABILITIES							
Current and Accrued Liabilities	886,271	107,661	38,467	5,201,731	6,234,130	888,214	7,122,344
Long Term Debt	1,620,344	-	10,283	-	1,630,627	455,049	2,085,876
Deferred Credits	548,777	4,760	-	255,756	809,293	8,878	818,171
Reserves	28,819	-	-	1,614,273	1,643,092	36,755	1,679,847
Capital Stock	6,063,600	92,200	55,000	6,600,000	12,810,800	561,538	13,372,338
Surplus	Dr. 1,508,184	58,178	36,886	255,061	Dr. 1,158,058	19,558	Dr. 1,158,500
Total	7,639,627	262,799	140,636	13,926,822	21,969,884	1,969,992	23,939,876
PROPERTY ACCOUNT							
PROPERTY AND EQUIPMENT							
Aircraft	2,323,365	89,346	49,340	4,467,639	6,929,690	785,334	7,715,024
Aircraft Engines	718,948	41,075	5,641	545,165	1,310,829	132,490	1,443,319
Aircraft Communication Equipment	-	12,930	-	351,435	364,365	27,063	391,428
Miscellaneous Flying Equipment	-	-	-	-	-	21,160	21,160
Total Flying Equipment	3,042,313	143,351	54,981	5,364,239	8,604,884	966,047	9,570,931
Miscellaneous Ground Equipment	402,760	14,352	9,645	1,070,804	1,497,561	93,657	1,591,218
Buildings and other Improvements	542,733	25,364	10,357	998,672	1,577,126	85,553	1,662,679
Land	25,148	10	1,712	103,394	130,264	14,850	145,114
Grand Total	4,012,954	183,077	76,695	7,537,109	11,809,835	1,160,107	12,969,942
Additions - Retirements - Depreciation -							
Additions	1,689,903	51,932	52,449	6,050,442	7,844,726	1,180,157	9,024,883
Retirements	488,049	17,487	2,610	431,896	940,042	269,583	1,209,625
Accrued Depreciation	2,714,166	160,119	51,703	5,444,077	8,370,065	416,397	8,786,462

CIVIL AVIATION, 1946

INCOME ACCOUNT

TABLE 3

	Canadian Pacific Air Lines (including Quebec Airways)	Maritime Central	M & C Aviation	Trans-Canada Air Lines	Total Scheduled Air Lines	Other Canadian Carriers	Grand Total Canadian Carriers
Total Revenues	7,332,995	411,593	68,158	12,810,805	20,623,551	1,564,438	21,987,969
Total Expenses	6,993,410	391,105	64,037	13,943,939	21,392,491	1,384,949	22,777,440
Net Operating Revenue	339,585	20,488	4,121	Dr. 1,133,134	Dr. 768,940	Dr. 20,511	Dr. 789,451
Non operating Income Total	73,435	-	3,498	49,663	126,596	20,244	146,840
Gross Income less Operating Expense	413,020	20,488	7,619	Dr. 1,083,471	Dr. 642,344	Dr. 267	Dr. 642,611
<u>Deductions from Gross Income -</u>							
Miscellaneous Income Charges	16,410	-	-	31,785	48,195	8,118	56,313
Interest on Long Term Debt	-	-	-	-	-	4,116	4,116
Miscellaneous Interest Charges	5,925	3,775	1,154	-	10,850	13,453	24,303
Amortization of Discount on Debt	-	-	-	-	-	570	570
Total Deductions	22,333	3,773	1,154	31,785	59,045	26,257	85,302
Net Income before Income Tax	390,687	16,715	6,465	Dr. 1,115,256	Dr. 701,389	Dr. 26,524	Dr. 727,913
Income Taxes	-	7,558	-	-	7,558	18,222	25,780
Balance Transferred to Profit and Loss	390,687	9,157	6,465	Dr. 1,115,256	Dr. 708,947	Dr. 44,746	Dr. 753,693
	<u>PROFIT AND LOSS</u>						
<u>Credits -</u>							
Balance at beginning of year	-	56,502	29,399	1,524,686	1,610,587	53,622	1,664,209
Balance from Income	390,687	9,157	6,465	-	406,309	75,324	481,633
Miscellaneous Credits	-	7,330	1,025	-	8,353	57,580	65,933
Total	390,687	72,989	36,887	1,524,686	2,025,249	186,526	2,211,775
<u>Debits</u>							
Balance at beginning of Year	1,898,871	-	-	-	1,898,871	103,331	2,002,202
Balance transferred from Income	-	-	-	1,115,256	1,115,256	101,844	1,217,100
Miscellaneous Debits	-	1,354	-	-	1,354	110,987	112,341
Dividends	-	13,458	-	154,368	167,826	-	167,826
Total	1,898,871	14,812	-	1,269,624	3,183,307	316,162	3,499,469
Credit Balance at close of Year	-	56,177	36,887	255,062	-	-	-
Debit Balance at close of Year	1,508,184	-	-	-	1,158,058	129,636	1,287,694

TABLE 4

CIVIL AVIATION, 1946

	Canadian Pacific Air Lines (including Quebec Airways)	Maritime Central	M & C Aviation	Trans-Canada Air Lines	Total Scheduled Air Lines	Other Canadian Carriers	Grand Total Canadian Carriers
<u>REVENUES -</u>							
Passenger	3,067,675	202,480	13,928	8,065,477	11,349,560	35,806	11,385,366
Excess Baggage	-	1,114	-	72,946	74,060	85	74,145
Mail	1,332,356	146,264	2,971	3,780,509	5,262,100	16,373	5,278,473
Goods	753,484	9,846	8,773	305,239	1,077,342	5,922	1,083,264
Chartered Services	1,464,254	50,157	41,551	-	1,555,962	886,210	2,442,172
Other Air Services	372,998	-	-	-	372,998	289,307	662,305
Total	6,990,767	409,861	67,223	12,224,171	19,692,022	1,233,703	20,925,725
Incidental Revenues, net	342,228	1,732	935	586,634	931,529	130,735	1,062,264
Grand Total	7,332,995	411,593	68,158	12,810,805	20,623,551	1,364,438	21,987,989

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5
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TABLE 5

<u>EXPENSES</u>							
Aircraft Operation and Maintenance	4,608,879	249,774	47,411	7,890,333	12,796,397	962,552	13,758,949
Ground Operation and Maintenance	1,657,626	89,416	10,094	4,202,581	5,959,717	193,681	6,153,398
Traffic Expenses	253,760	12,345	3,212	1,161,822	1,431,139	56,203	1,487,542
General Administration	456,502	38,553	3,142	630,882	1,129,079	167,669	1,296,748
General Taxes	16,643	1,017	178	58,321	76,159	4,844	81,003
Grand Total	6,993,410	391,105	64,037	13,943,939	21,392,491	1,384,949	22,777,440

TABLE 6

CIVIL AVIATION, 1946

	Canadian Pacific Air Lines (including Quebec Airways)	Maritime Central	M & C Aviation	Trans-Canada Air Lines	Total Scheduled Air Lines	Other Canadian Carriers	Grand Total Canadian Carriers	Foreign Inter- national	Non- Commercial	GRAND TOTAL
Aircraft Miles - Scheduled	4,771,496	570,041	56,674	14,884,345	20,282,556	79,407	20,361,936	1,135,714	-	21,497,677
Miles Flown - Revenue	6,813,907	570,519	145,720	14,162,377	21,692,323	5,099,171	24,791,494	1,053,076	-	25,844,570
Non revenue	380,568	20,522	5,676	1,702,293	2,109,059	278,131	2,387,190	37,029	143,204	2,567,423
Total	7,194,475	590,841	151,396	15,864,670	23,801,382	3,377,302	27,178,684	1,090,105	143,204	28,411,993
Passengers Carried -										
Revenue Originated ...	176,685	27,293	1,259	303,670	508,907	63,416	572,323	1/ 237,161	-	809,484
Received from others	-	4,714	-	33,506	38,220	-	38,220	7,677	-	45,897
Company Employees	3,568	319	15	13,493	17,395	859	18,254	2,876	2,708	23,838
Other Non revenue	256	139	2	1,137	1,534	1,182	2,716	510	-	3,226
Total	180,509	32,465	1,276	351,806	566,056	65,457	631,513	248,224	2,708	882,445
Goods Carried -										
Revenue Originated ...	16,471,226	281,833	134,303	1,457,317	18,344,679	4,109,111	22,453,790	2/ 1,165,395	-	23,619,185
Rec'd from other carriers	43,515	14,062	-	149,320	206,897	-	206,897	12,680	-	219,577
Non revenue	664,344	-	-	555,537	1,219,881	20,310	1,240,191	95,807	271,805	1,607,801
Total ....lbs.	17,179,085	295,895	134,303	2,162,174	19,771,457	4,129,421	23,900,878	1,273,882	271,803	25,446,563
Mail Carried .....lbs.	1,722,733	375,307	29,062	2,684,717	4,811,819	103,811	4,915,630	1,014,708	-	5,930,338
Passenger Miles -										
Revenue	30,515,755	3,013,618	168,195	155,777,319	189,474,887	4,210,510	193,685,397	13,091,011	-	206,776,408
Company Employees	1,227,545	28,570	3,451	6,758,673	8,018,239	105,553	8,123,792	203,156	202,004	8,528,952
Other non revenue	53,562	11,105	400	242,493	307,560	104,800	412,360	30,261	-	442,621
Total	31,796,862	3,053,293	172,046	162,778,485	197,800,686	4,420,863	202,221,549	13,324,428	202,004	215,747,981
Ratio of Available Seat Miles to Revenue Passenger Miles 4/ P.C.	48.7	50.3	-	76.4	73.8	-	73.8	61.5	-	72.7
Ton Miles - Goods - Revenue	1,150,734	27,534	10,411	513,493	1,702,172	142,121	1,844,293	48,098	-	1,892,391
Non revenue..	142,180	-	-	259,503	401,683	1,272	402,955	7,605	9,726	420,286
Total	1,292,914	27,534	10,411	772,996	2,103,855	143,393	2,247,248	55,703	9,726	2,312,677
Ton Miles - Mail	255,411	14,694	1,639	1,210,716	1,482,460	3,364	1,485,824	49,095	-	1,534,919
Gasoline Consumed Gallons	2,632,415	192,880	31,436	6,843,321	9,700,052	549,497	10,249,549	1/ 1,029,210	277,721	11,556,480
Cost \$	906,985	46,617	11,989	1,669,902	2,635,475	168,300	2,803,773	-	-	2,803,773
Oil Consumed Gallons	46,985	3,946	974	82,413	134,318	13,267	147,585	3/ 2,245	6,659	156,489
Cost \$	42,402	4,119	792	64,645	111,956	12,992	124,948	-	-	124,948
Hours Flown - Revenue	52,019	4,837	1,464	79,825	138,145	19,802	157,747	6,901	-	164,648
Non revenue	2,961	197	55	13,440	16,653	2,682	19,335	208	1,386	20,929
Miscellaneous	894	-	-	-	894	15,341	16,235	-	9,776	26,011
Total	55,874	5,034	1,519	93,265	155,692	37,625	193,317	7,109	11,162	211,588
Crew Hours	100,542	9,501	1,948	267,289	379,280	36,032	415,312	21,684	12,848	449,844
Passenger Hours	222,497	22,959	1,741	926,048	1,173,245	40,666	1,213,911	86,656	1,791	1,302,358

1/ Includes 6,673 passengers between foreign stations.

3/ Purchased in Canada.

2/ Includes 181,260 lbs. of goods between foreign stations.

4/ Computed for routes which were primarily scheduled passenger routes.

CIVIL AVIATION, 1946

EMPLOYEES, SALARIES AND WAGES

TABLE 7

Canadian Carriers	Number	Salaries & Wages \$	Companies	Number	Salaries & Wages \$
General Officers	177	959,555	Canadian Pacific Air Lines	1,221	2,590,286
Clarks and Stenographers	650	960,322	Maritime Central	62	127,291
Pilots	259	1,419,867	M & C Aviation	34	62,566
Co-pilots	172	596,149	Trans-Canada Air Lines	5,839	8,747,408
Despatchers	78	208,609	Total Scheduled	5,156	11,527,370
Communication Operators	528	585,686	Other Air Carriers	257	507,602
Stewards and other Attendants	141	249,169	Total Canadian Carriers	5,413	12,054,972
Air Engineers	281	682,891	Foreign International Carriers	(1) 115	295,044
Mechanics	1,716	3,452,639	Non-Commercial	98	243,977
Airport Employees	840	1,351,084	Grand Total	5,626	12,573,993
Stores Employees	156	256,282			
Other Employees	640	1,354,919			
Total	5,413	12,034,972			

(1) Employees domiciled in Canada only.

TABLE 8

ACCIDENTS

	Canadian Pacific Air Lines (including Quebec Airways)	Maritime Central	M & C Aviation	Trans- Canada Air Lines	Total Scheduled Air Lines	Other Canadian Carriers	Grand Total Canadian Carriers	Foreign Inter- national	Non- Commercial	Grand Total
Accidents resulting in Property Damage only ...	52	2	1	46	85	15	98	-	3	101
Revenue Transportation -										
Number resulting in Death or Injury	1	-	-	-	1	2	3	-	-	5
Number of Persons - Killed - Crew - Pilots ..	-	-	-	-	-	2	2	-	-	2
Other Crew	-	-	-	-	-	2	2	-	-	2
Passengers	-	-	-	-	-	3	3	-	-	3
Total	-	-	-	-	-	7	7	-	-	7
Injured - Crew - Pilots	-	-	-	-	-	1	1	-	-	1
Other Crew	-	-	-	-	-	1	1	-	-	1
Passengers	1	-	-	-	1	8	9	-	-	9
Total	1	-	-	-	1	10	11	-	-	11
Non-revenue Transportation-										
Number resulting in Death or Injury	-	-	-	1	1	-	1	-	-	1
Number of Persons - Killed - Crew - Pilots ..	-	-	-	2	2	-	2	-	-	2
Injured	-	-	-	-	-	-	-	-	-	-
Miscellaneous Flying -										
Number resulting in Death or Injury	-	-	-	-	-	1	1	-	-	1
Number of Persons - Killed - Crew - Pilots ..	-	-	-	-	-	-	-	-	-	-
Injured	-	-	-	-	-	1	1	-	-	1
Total All Flying -										
Number resulting in Death or Injury	1	-	-	1	2	3	5	-	-	5
Number of Persons - Killed - Crew - Pilots ..	-	-	-	2	2	2	4	-	-	4
Other Crew	-	-	-	-	-	2	2	-	-	2
Passengers	-	-	-	-	-	3	3	-	-	3
Total	-	-	-	2	2	7	9	-	-	9
Injured - Crew - Pilots	-	-	-	-	-	2	2	-	-	2
Other Crew	-	-	-	-	-	1	1	-	-	1
Passengers	1	-	-	-	1	8	9	-	-	9
Total	1	-	-	-	1	11	12	-	-	12
Non Flight Accidents -										
Number resulting in Death or Injury	-	-	-	-	-	1	1	-	1	2
Number of Persons - Killed - Crew - Pilots ..	-	-	-	-	-	-	-	-	1	1
Other Crew	-	-	-	-	-	-	-	-	3	3
Other Persons ..	-	-	-	-	-	1	1	-	-	1
Total	-	-	-	-	-	1	1	-	4	5

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