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CIVIL AVIATION 1959

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TABLE OF CONTENTS

	Page
Introduction	5
 Charts:	
A. Revenue Miles Flown by Canadian Carriers	6
B. Revenue Passengers Carried by Canadian Carriers	6
C. Operating Revenues of Canadian Carriers	7
D. Revenue Goods and Mail Carried by Canadian Carriers	7
 Tables:	
1. Statistical Summary of Civil Aviation in Canada, 1954-59	8
2. General Balance Sheet of Canadian Scheduled Air Carriers, 1959	8
3. General Balance Sheet of Canadian Non-scheduled Air Carriers, 1959	9
4. Property Account of Selected Canadian Air Carriers as at End of 1959	9
5. Statement of Earned Surplus of Selected Canadian Air Carriers, 1959	10
6. Operating Statistics of Canadian and Foreign Air Carriers, 1959	10
7. Transportation Statistics of Canadian and Foreign Air Carriers, 1959	11
8. Revenues and Expenses of Canadian Air Carriers, 1959	12
9. Operating Statistics of Domestic Services of Canadian Scheduled Air Carriers, 1959	12
10. Operating Statistics of Domestic Services of Non-scheduled Canadian Air Carriers, 1959	13
11. Operating Statistics of Atlantic and Pacific Services of Scheduled Canadian Air Carriers, 1959	13
12. Transportation Statistics of Domestic Services of Canadian Scheduled Air Carriers, 1959	14
13. Transportation Statistics of Domestic Services of Canadian Non-scheduled Air Carriers, 1959	15
14. Transportation Statistics of Atlantic and Pacific Services of Canadian Sched- uled Air Carriers, 1959	16
15. Revenues and Expenses of Canadian Scheduled Air Carriers, 1959	17
16. Revenues and Expenses of Domestic Services of Canadian Non-scheduled Air Carriers, 1959	17
17. Employees, Salaries and Wages of Canadian and Foreign Air Carriers, 1959....	18
18. Accidents Involving Canadian Air Carriers, 1955-59	18
19. Personnel and Airport Licenses Issued and Aircraft Registered as of December 31, 1959	18
20. Statistical Summary of Operations of Canadian Helicopter Carriers, 1959	19

SYMBOLS

The interpretation of the symbols used in the tables throughout this publication is as follows:

- .. figures not available.
- ... figures not appropriate or not applicable.
- nil or zero.

CIVIL AVIATION

1959

The operating income of Canadian air carriers decreased 34.8 p.c. to \$935,565 from \$1,435,711 in 1959. Despite the fact that total operating revenues reached an all-time high, rising 9.3 p.c. to \$220,423,558 from \$201,713,936, they failed to keep pace with total operating expenses which increased 9.6 p.c. to \$219,487,993 from \$200,278,225 in the previous year. After provision for taxes and other charges there was a deficit of \$2,484,178 as compared with a deficit of \$1,806,744 in 1958. Scheduled airlines reported a net operating deficit after taxes of \$3,470,511 compared with one of \$2,306,820 in 1958; non-scheduled airlines recorded a net income after taxes of \$986,333, nearly double that of \$500,076 earned in the previous year.

The revenues produced by unit toll services increased substantially to \$180,304,231 from \$156,589,429, a gain of 15.1 p.c. Bulk transportation revenues (charter and contract) dropped 3.0 p.c. to \$29,003,250 from \$29,896,573 following the trend of the past three years. Other flying service revenues fell sharply to \$6,491,202 from \$10,129,753, while non-flying services accounted for \$4,624,875 as compared with \$5,098,181 in 1958. Revenue from unit toll passenger fares continued to be the principal source of income, rising 16.1 p.c. to \$152,317,247 from \$131,166,995. Mail receipts rose 3.5 p.c. to \$13,437,772; earnings from freight carried in unit toll service 18.4 p.c. to \$9,201,872, express receipts 16.0 p.c. to \$3,630,738 and excess baggage charges 11.6 p.c. to \$1,716,602.

All expense accounts shared in the overall increase to \$219,487,993 from \$200,278,225 recorded in the previous year. Aircraft operation and maintenance costs rose 10.7 p.c. to \$131,576,051 from \$118,822,770, ground operation and maintenance costs 6.6 p.c. to \$46,041,280 from \$43,189,511; traffic expenses 13.5 p.c. to \$25,298,248; general administration expenses 3.3 p.c. to \$15,567,463 and general taxes 8.8 p.c. to \$1,004,951.

Revenue passengers carried by Canadian air carriers aggregated 4,681,264 in 1959, an increase of 658,327 or 16.4 p.c. over the 4,022,937 transported in 1958. Revenue unit toll passengers numbered 4,176,501 as against 3,599,365 while passengers carried in bulk or charter service totalled 504,763 compared with 423,572. Revenue unit toll passenger-miles advanced 15.8 p.c. to 2,357 million from 2,036 million with the result that the length of the average passenger journey was virtually unchanged.

Revenue goods transported by air totalled 202,988,362 lbs. of which 65,243,299 lbs. were

carried on unit toll services and 126,523,737 lbs. in bulk or charter service. Goods carried in unit toll services consisted of 51,114,465 lbs. of freight, 18,538,141 lbs. of express and 6,812,019 lbs. of excess baggage. Freight was the only type of cargo flown in charter service. For the twelfth consecutive year a new high was established for the volume of mail flown, which at 32,894,779 lbs. was 4.8 p.c. above last year's record of 31,387,841 lbs.

Transportation statistics for all services include foreign carriers in trans-border and in Atlantic and Pacific services. During the year under review these carriers transported to or from Canada 634,737 revenue passengers, 11,403,527 lbs. of revenue freight and 2,663,447 lbs. of revenue mail. Comparable figures for the previous year are 532,314 passengers, 8,621,276 lbs. of revenue freight and 2,240,172 lbs. of mail. The mileage shown for these foreign carriers represents miles flown over Canadian territory only.

The number of revenue miles flown by aircraft of Canadian carriers reached a record high, increasing 10.7 p.c. to 106,107,103 miles from 95,810,566. Of this total, 77,405,581 miles were flown in unit toll service and 28,701,522 miles in bulk transportation service as against 69,438,086 and 26,372,480 miles respectively in the previous year. Total revenue hours flown also increased, rising 10.3 p.c. to 764,229 from 692,939. Of this total, 350,019 hours were flown in unit toll service compared with 323,972 in 1958, while an additional 259,188 hours were required in the performance of bulk or charter service compared with 233,380 in the previous year.

A total of \$86,148,440 was earned in salaries and wages by 16,565 employees in 1959, against \$80,235,145 earned by 15,990 employees in 1958. The average salary paid by the industry increased to \$5,201 from \$5,018. All classes of personnel with the exception of communication operators and stores employees increased in number. The drop in the number of communication operators was due to a reclassification of over half of this class of employee by one of the major airlines. With the exception of communication operators, salaries increased for all types of employees.

An additional table, No. 20, has been added to this report for the first time to show separate data for Canadian carriers which operate helicopters only. These data include the operations of 11 companies which operate 75 per cent of the total number of helicopters registered in Canada in 1959.

CHART A

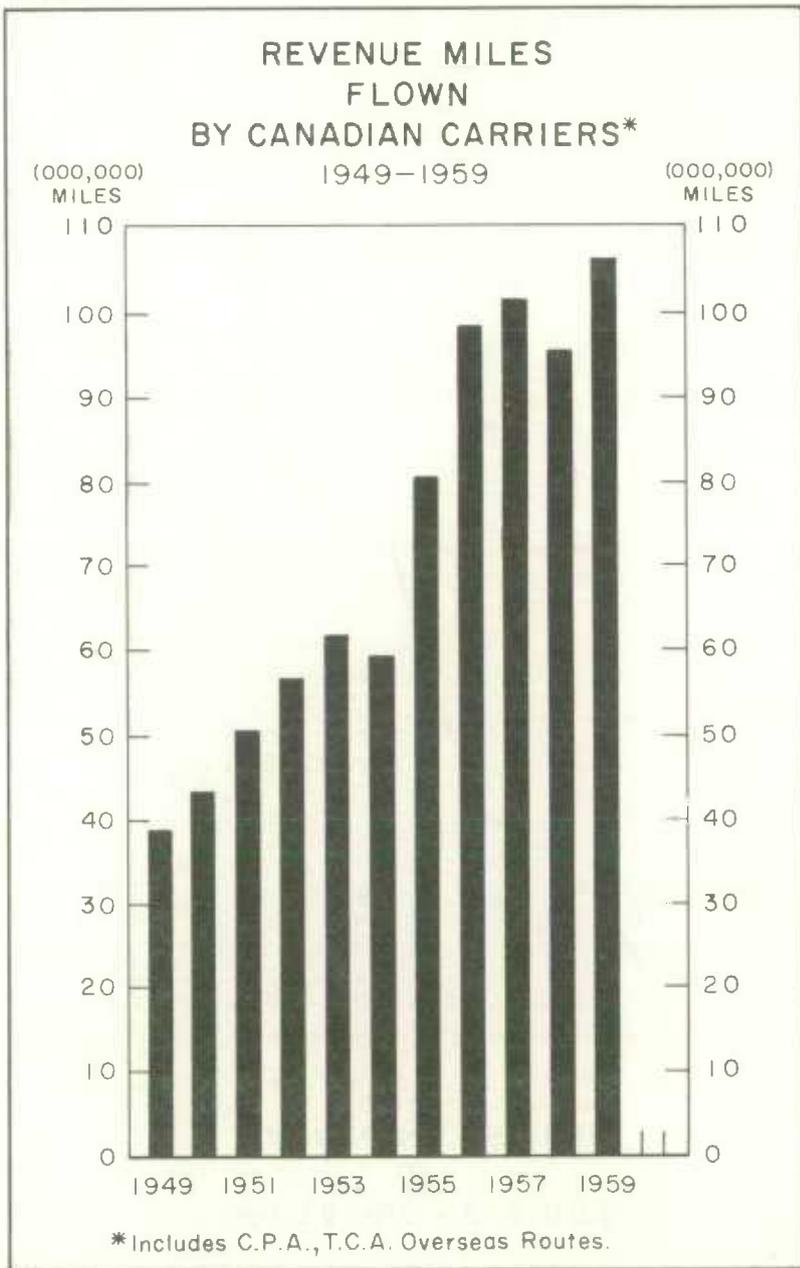


CHART B

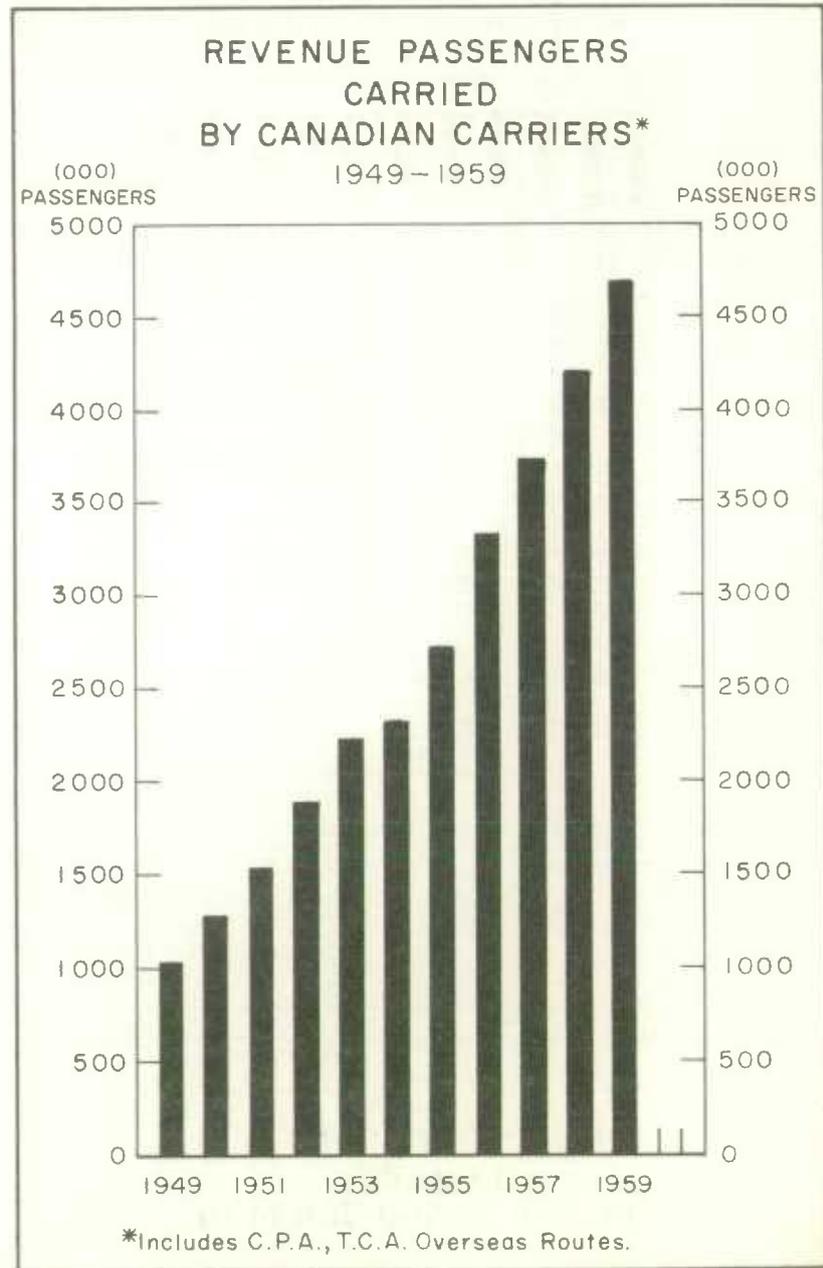
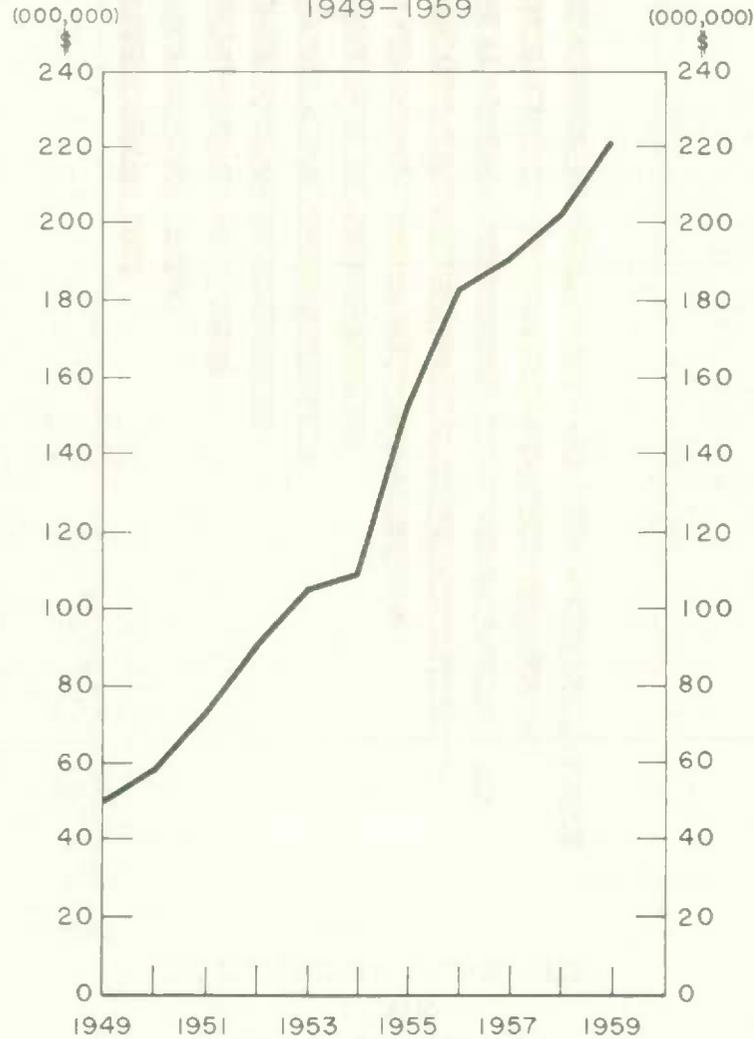


CHART C

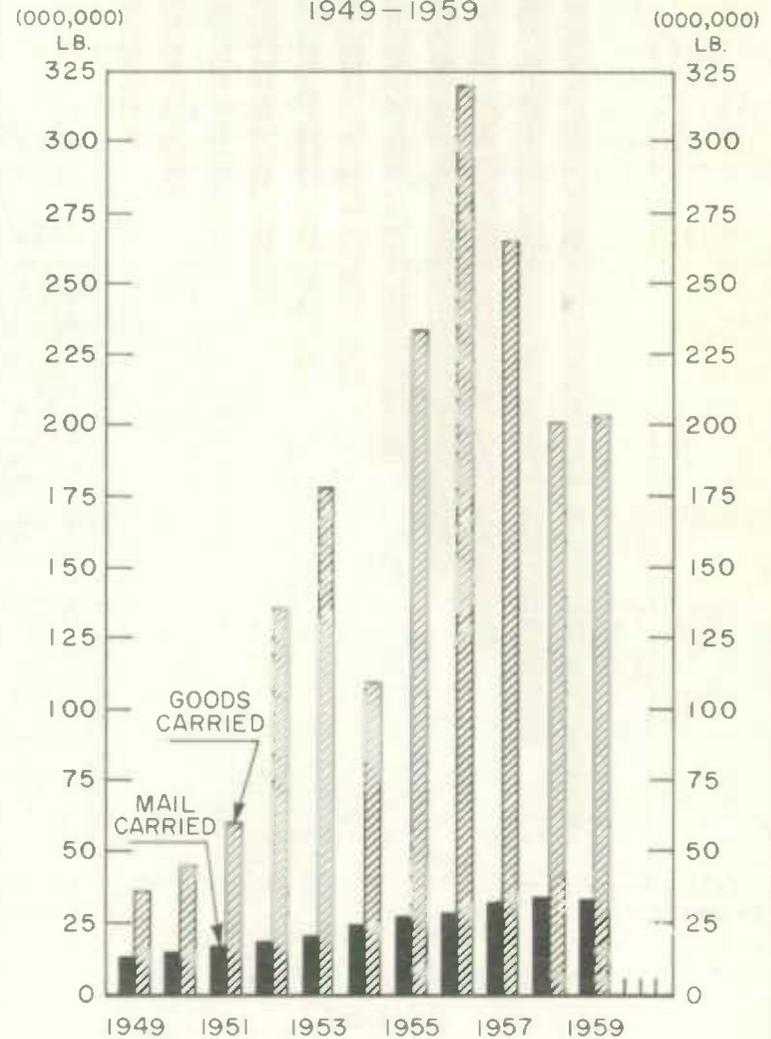
OPERATING REVENUES
OF
CANADIAN CARRIERS*
1949-1959



*Includes C.P.A., T.C.A. Overseas Routes.

CHART D

REVENUE GOODS AND MAIL
CARRIED
CANADIAN CARRIERS*
1949-1959



*Includes C.P.A., T.C.A. Overseas Routes.

TABLE 1. Statistical Summary of Civil Aviation in Canada, 1954-59

	1959	1958	1957	1956	1955	1954
Miles flown—Revenue	110,889,252	99,858,279	104,699,140	101,723,710	83,805,304	61,582,441
Hours flown:						
Revenue	798,527	709,337	742,056	734,822	605,913	472,817
Non-revenue	31,711	35,458	40,760	37,567	31,306	21,516
Totals	830,238	744,795	782,816	772,389	637,219	494,333
Passengers carried:						
Revenue	5,316,001	4,555,251	4,319,920	3,864,818	3,249,099	2,792,348
Non-revenue	32,031	23,317	35,554	58,721	54,076	73,199
Totals	5,348,032	4,578,568	4,355,474	3,923,539	3,303,175	2,865,547
Passenger miles:						
Revenue (Unit toll transportation only)	2,495,682,456	2,142,276,186	1,835,183,870	1,547,279,882	1,223,825,448	1,066,805,242
Non-revenue " " " "	102,753,571	86,663,863	71,030,597	61,416,920	57,477,989	49,134,404
Totals " " " "	2,598,436,027	2,228,940,049	1,906,214,467	1,608,696,802	1,281,303,437	1,115,939,646
Goods carried (lbs.):						
Revenue	214,391,889	200,388,312	264,812,177	319,260,401	233,561,830	109,299,356
Non-revenue	9,140,907	6,462,608	7,079,240	7,639,517	7,121,832	5,714,121
Totals	223,532,796	206,850,920	271,891,417	326,899,918	240,683,662	115,013,477
Goods ton miles:						
Revenue (Unit toll transportation only)	31,296,521	26,447,626	24,268,206	22,065,286	18,084,169	14,057,279
Non-revenue " " " "	4,472,346	3,433,553	2,998,061	3,039,907	3,477,194	3,379,895
Totals " " " "	35,768,867	29,881,179	27,266,267	25,105,193	21,561,363	17,437,174
Mail carried (lbs.)—Unit toll transportation	35,558,226	33,628,013	31,413,504	27,914,288	26,616,505	24,228,571
Mail ton miles—Unit toll transportation	13,682,638	13,037,645	12,055,649	10,238,458	9,048,610	8,239,855
Fuel consumed:						
Gasoline	150,178,054 gal.	126,051,496	112,769,672	102,836,140	77,938,918	53,164,769
Cost	36,142,453 \$	33,762,205	35,110,535	33,321,107	25,070,432	17,314,786
Oil	1,168,174 gal.	1,169,636	1,220,680	1,212,361	1,006,154	695,642
Cost	1,309,419 \$	1,370,105	1,205,946	1,215,979	960,154	671,069
Average number of employees	17,326	16,664	16,682	15,411	13,783	12,126
Salaries and wages	87,846,765 \$	83,474,463	78,362,795	67,708,117	57,665,410	48,907,525
Operating revenues:						
Unit toll transportation	160,304,231	156,589,429	136,551,980	118,010,084	97,318,012	84,327,398
Bulk transportation	29,003,250	29,896,573	40,719,214	53,435,589	44,543,258	15,149,492
Other revenue services	11,116,077	15,227,934	12,771,871	10,723,177	10,877,748	9,387,399
Totals	220,423,558	201,713,936	190,043,065	182,168,850	152,739,018	108,864,289
Operating expenses:						
Aircraft operation and maintenance	131,576,051	118,822,770	114,993,628	108,268,728	90,504,604	59,984,323
Ground operation and maintenance	46,041,280	43,189,511	41,350,781	39,014,039	32,909,216	27,840,216
Traffic, general administration and taxes	41,870,662	38,265,944	33,069,380	27,299,213	23,240,994	19,162,830
Totals	219,487,993	200,278,225	189,413,789	174,581,980	146,654,814	106,987,369
Operating income (or loss)	935,565	1,435,711	629,276	7,586,870	6,064,204	1,876,920
Net income (or deficit) after income taxes	Dr. 2,484,178	Dr. 1,806,744	Dr. 552,897	4,699,586	4,132,752	849,647

TABLE 2. General Balance Sheet of Canadian Scheduled Air Carriers, 1959

	Canadian Pacific Air Lines ¹	Maritime Central Airways	Pacific Western Airlines	Quebecair Inc.	Transair Ltd.	Trans-Canada Air Lines ¹	Total scheduled carriers
	dollars						
Assets:							
Current assets	12,980,064	3,041,765	1,708,303	709,863	999,752	33,076,118	52,515,885
Investments	1,601,668	1,428,900	600	1,775	5,144	7,745	3,045,832
Deferred debits	2,656,162	15,456	221,635	1,050	212,061	—	3,106,384
Special funds	—	—	—	—	—	5,845,866	5,845,866
Fixed assets (less depreciation)	17,195,185	2,427,814	4,910,670	3,456,072	2,150,921	136,482,996	166,623,658
Totals	34,433,079	6,913,955	6,841,208	4,168,760	3,367,898	175,412,725	231,137,625
Liabilities:							
Current liabilities	7,834,454	1,477,294	2,656,603	530,531	747,541	19,484,582	32,731,005
Long term debt	7,125,254	1,287,515	837,401	2,105,278	1,778,285	135,100,000	148,233,733
Deferred credits	1,557,611	65,786	—	—	44,649	3,140,609	4,808,655
Reserves	—	50,000	94,919	29,472	417,716	5,845,866	6,437,973
Capital stock	22,750,000	15,000	1,458,693	123,633	445,526	5,000,000	29,792,852
Surplus	Dr. 4,834,240	4,018,360	1,793,592	1,379,846	Dr. 65,819	6,841,668	9,133,407
Totals	34,433,079	6,913,955	6,841,208	4,168,760	3,367,898	175,412,725	231,137,625

¹ Includes overseas services.

TABLE 3. General Balance Sheet of Canadian Non-scheduled Air Carriers, 1959

	Class "B" carriers	Class "C" carriers	Class "D" carriers	Total non-scheduled
dollars				
Assets:				
Current assets	9,152,265	750,268	809,525	10,712,058
Fixed assets (less depreciation)	15,410,500	1,585,460	1,536,080	18,532,040
Other assets	1,544,115	264,938	150,979	1,960,032
Totals	26,106,880	2,600,666	2,496,584	31,204,130
Liabilities:				
Current liabilities	8,995,591	1,014,811	732,967	10,743,369
Other liabilities	7,961,767	1,060,180	851,310	9,873,257
Incorporated companies:				
Capital stock	4,252,947	494,923	476,112	5,223,982
Surplus	4,896,575	Dr. 182,376	65,212	4,779,411
Non-incorporated businesses - Net worth	-	213,128	370,983	584,111
Totals	26,106,880	2,600,666	2,496,584	31,204,130

TABLE 4. Property Account of Selected Canadian Air Carriers as at End of 1959

	Canadian Pacific Air Lines ¹	Maritime Central Airways	Pacific Western Airlines	Quebecair Inc.	Transair Ltd.	Trans- Canada Air Lines ¹	Total scheduled air lines	Class "B" carriers	Grand total
dollars									
Property and equipment:									
Aircraft	8,790,555	952,389	2,173,172	2,300,313	963,451	47,827,208	63,007,088	8,146,676	71,153,764
Aircraft engines	4,153,690	348,573	692,453	119,046	487,874	8,575,828	14,377,464	1,439,452	15,816,916
Motor vehicles and floating equip- ment	91,536	39,185	57,308	28,847	22,705	1,288,876	1,528,457	272,669	1,801,126
Aircraft communication equipment	465,046	28,192	95,866	156,835	11,885	1,150,134	1,907,958	-	1,907,958
Communication equipment (ground)	-	11,885	100,011	25,253	23,496	80,148	240,793	-	240,793
Miscellaneous flying equipment	-	9,045	11,430	3,976	1,670	-	26,121	554,402	580,523
Shop and hangar equipment	286,800	39,493	111,924	115,792	39,534	1,655,178	2,248,721	260,547	2,509,268
Fuel storage and distribution equipment	-	50	2,148	-	-	-	2,198	-	2,198
Furniture, fixtures and office equipment	182,511	36,115	99,063	68,407	24,979	1,604,937	2,016,012	237,642	2,253,654
Airport lighting equipment	-	-	-	-	-	-	-	-	-
Miscellaneous ground equipment ..	945,101	22,497	65,188	25,090	-	2,317,190	3,375,066	279,477	3,654,543
Buildings	2,276,725	931,508	244,035	588,313	562,528	4,557,768	9,160,877	2,955,203	12,116,080
Appraisal increase	-	-	Dr. 18,231	-	-	-	Dr. 18,231	-	Dr. 18,231
Total net value	17,191,964	2,418,932	3,634,367	3,431,872	2,138,122	69,057,267	97,872,524	14,146,068	112,018,592
Additions, retirements, depreciation:									
Cost value of assets:									
At beginning of year	56,228,700	6,493,175	6,293,847	3,003,533	3,094,170	120,905,680	196,019,105	26,321,575	222,340,680
Additions during the year	1,514,868	1,639,566	1,274,503	1,144,820	133,439	12,241,122	17,948,318	6,100,130	24,048,448
Retirements during year	30,151,002	3,377,280	1,695,671	6,776	125,118	3,066,403	38,422,250	2,449,472	40,871,722
At end of year	27,592,566	4,755,461	5,872,679	4,141,577	3,102,491	130,080,399	175,545,173	29,972,233	205,517,406
Accrued depreciation:									
At beginning of year	11,574,214	3,870,071	2,359,322	446,844	775,559	49,869,606	68,895,616	13,595,937	82,491,553
Decreases	3,647,442	1,972,745	945,695	52,369	6,493	991,556	7,616,300	1,062,299	8,678,599
Provision for depreciation - Current year	2,473,830	439,203	824,685	315,230	195,303	12,145,082	16,393,333	3,292,527	19,685,880
At end of year	10,400,602	2,336,529	2,238,312	709,705	964,369	61,023,132	77,672,649	15,826,165	93,498,814
Total net value	17,191,964	2,418,932	3,634,367	3,431,872	2,138,122	69,057,267	97,872,524	14,146,068	112,018,592

¹ Includes overseas services.

TABLE 5. Statement of Earned Surplus of Selected Canadian Air Carriers, 1959

	Canadian Pacific Air Lines ¹	Maritime Central Airways	Pacific Western Airlines	Quebecair Inc.	Transair Ltd.	Trans-Canada Air Lines ¹	Total scheduled air lines	Class "B" carriers	Grand total
dollars									
Credit balance at beginning of year	Dr. 961,652	2,585,183	1,084,991	1,189,542	Dr. 120,842	6,689,114	10,466,336	2,893,119	13,359,455
Additions:									
Net income for the year	—	133,985	415,425	136,867	50,797	152,554	889,628	1,551,282	2,440,910
Miscellaneous credits	487,551	1,073,504	—	56,328	4,226	—	1,621,609	260,137	1,881,746
Total additions	487,551	1,207,489	415,425	193,195	55,023	152,554	2,511,237	1,811,419	4,322,656
Deductions:									
Deficit for the year	4,360,139	—	—	—	—	—	4,360,139	387,744	4,747,883
Miscellaneous debits	—	109,412	—	46	—	—	109,458	406,663	516,121
Dividends	—	153,000	89,537	2,845	—	—	225,382	304,828	530,210
Deductions from net worth	—	—	—	—	—	—	—	—	—
Total deductions	4,360,139	262,412	69,537	2,891	—	—	4,694,979	1,099,235	5,794,214
Credit balance at end of year	Dr. 4,834,240	3,530,260	1,430,879	1,379,846	Dr. 65,819	8,841,668	8,282,594	3,605,303	11,887,897

¹ Includes overseas services.

TABLE 6. Operating Statistics of Canadian and Foreign Air Carriers, 1959

	Canadian carriers					Foreign carriers		Grand total all services
	Domestic services		Trans-border services	Atlantic and Pacific services	Total	Trans-border services	Atlantic and Pacific services	
	Scheduled	Non-scheduled						
Miles flown:								
Revenue:								
Unit toll transportation	48,708,995	3,525,139	9,219,577	15,951,870	77,405,581	2,178,177	2,571,692	82,155,450
Bulk transportation	4,191,525	24,277,266	17,558	215,173	28,701,522	11,293	20,987	28,733,802
Total revenue miles flown	52,900,520	27,802,405	9,237,135	16,167,043	106,107,103	2,189,470	2,592,679	110,889,252
Hours flown:								
Revenue:								
Unit toll transportation	220,433	30,401	38,818	60,367	350,019	9,875	24,291	384,185
Bulk transportation	30,329	227,954	84	821	259,188	51	81	259,320
Other flying services	3,354	151,668	—	—	155,022	—	—	155,022
Total revenue	254,116	410,023	38,902	61,188	764,229	9,926	24,372	798,527
Non-revenue	9,632	19,376	175	2,441	31,624	87	—	31,711
Total hours flown	263,748	429,399	39,077	63,629	795,853	10,013	24,372	830,238
Fuel consumed:								
Turbo fuel	gal. 52,972,729	—	¹	6,084,996	59,057,725	3,265,568 ²	3,959,507 ²	66,282,800
Cost	\$ 7,979,473	—	¹	1,162,141	9,141,614	669,033	927,686	10,738,333
Gasoline	gal. 31,341,045	11,205,240	¹	20,451,230	62,997,515	9,509,902 ²	11,387,837 ²	83,895,254
Cost	\$ 9,776,597	4,894,815	¹	5,355,253	19,826,665	2,981,521	2,595,934	25,404,120
Oil for turbo aircraft	gal. 16,007	—	¹	2,490	18,497	685 ²	3,617 ²	22,799
Cost	\$ 232,351	—	¹	38,153	270,504	1,458	6,344	278,306
Oil for other aircraft	gal. 426,615	153,563	¹	290,548	870,926	153,686 ²	120,783 ²	1,145,375
Cost	\$ 383,032	206,500	¹	226,617	818,149	122,470	90,494	1,031,113
Average number of employees	12,440	2,249	¹	1,876	16,565	290	471	17,326
Salaries and wages	\$ 64,793,146	11,339,534	¹	10,015,760	86,148,440	1,474,001	2,224,324	87,846,765
Average number of aircraft:								
Owned	199	776	¹	25	1,000	...	...	1,000
Leased	10	70	¹	—	80	...	...	80
Totals	209	846	1	25	1,080	...	...	1,080
Ratio of miles flown to miles scheduled ³	98.4	...	96.7	99.0	98.3	92.7	97.9	98.1
Revenue passenger load factor—Scheduled	65.1	...	71.4	59.0	64.0	27.5	48.1	62.0

¹ Included in scheduled domestic services.² Gasoline and oil taken on in Canada.³ Includes miles flown on regular scheduled flights only.

TABLE 7. Transportation Statistics of Canadian and Foreign Air Carriers, 1959

	Canadian carriers				Foreign carriers			Grand total all services
	Domestic services		Trans-border services	Atlantic and Pacific services	Total	Trans-border services	Atlantic and Pacific services	
	Scheduled	Non-scheduled						
Passengers carried:								
Revenue:								
Unit toll transportation	3,014,103	84,197	847,989	230,212	4,176,501	518,289	113,809	4,808,599
Bulk transportation.....	56,971	441,711	2,223	3,858	504,763	1,922	717	507,402
Total revenue	3,071,074	525,908	850,212 ¹	234,070	4,681,264	520,211	114,526	5,316,001
Non-revenue.....	9,808	7,353	..	4,077	21,238	8,024	2,769	32,031
Total passengers carried....	3,080,882	533,261	850,212	238,147	4,702,502	528,235	117,295	5,348,032
Passenger miles—Unit toll transportation:								
Revenue	1,431,048,316	18,102,625	284,277,768	623,957,711	2,357,386,420	33,569,157	104,726,679	2,495,682,456
Non-revenue.....	56,255,900	799,016	3,442,934	39,694,746	100,192,596	786,916	1,774,059	102,753,571
Total passenger miles	1,487,304,216	18,901,641	287,720,702	663,652,457	2,457,579,016	34,356,073	106,500,938	2,598,436,027
Freight carried (lbs.):								
Revenue:								
Unit toll transportation	30,913,876	7,398,401	8,689,280	4,112,908	51,114,465	7,647,659	3,745,723	62,507,847
Bulk transportation.....	15,192,379	111,331,356	—	—	126,523,737	2,010	8,135	126,533,862
Total revenue	46,106,255	118,729,759	8,689,280 ²	4,112,908	177,638,202	7,649,669	3,753,858	189,041,729
Non-revenue.....	4,862,272	2,484,764	131,617	984,957	8,463,610	231,347	445,950	9,140,907
Total freight carried.....	50,968,527	121,214,523	8,820,897	5,097,865	186,101,812	7,881,016³	4,199,808³	198,182,636
Freight ton miles—Unit toll transportation:								
Revenue	11,969,866	1,867,450	1,475,309	7,498,944	22,831,569	310,500	1,460,757	24,622,626
Non-revenue.....	2,305,809	166,783	21,470	1,793,760	4,287,822	24,728	159,796	4,472,346
Total freight ton miles.....	14,275,675	2,034,233	1,496,779	9,292,704	27,119,391	335,228⁴	1,640,553⁴	29,095,172
Express carried (lbs.)—Unit toll transportation	15,539,837	460,948	2,537,356⁵	—	18,538,141	°	°	18,538,141
Express ton miles—Unit toll transportation	4,450,252	56,454	428,440	—	4,937,146	°	°	4,937,146
Excess baggage carried (lbs.)—Unit toll transportation	4,753,353	325,504	1,325,935⁶	407,227	6,812,019	°	°	6,812,019
Excess baggage ton miles—Unit toll transportation.....	955,864	71,171	226,464	483,050	1,736,549	°	°	1,736,549
Mail carried (lbs.)—Unit toll transportation.....	27,722,405	1,700,093	1,916,706	1,555,575	32,894,779	1,624,021	1,039,426	35,558,226
Mail ton miles—Unit toll transportation	9,623,549	220,588	348,938	2,922,512	13,115,587	71,654	515,397	13,682,638

¹ Includes 88,301 division interline passengers.
² Includes 478,415 lbs. division interline freight.
³ Includes express and excess baggage.
⁴ Includes express and excess baggage ton miles.

⁵ Includes 32,615 lbs. division interline express.
⁶ Included in freight carried.
⁷ Included in freight ton miles.
⁸ Includes 180,597 lbs. division interline excess baggage.

TABLE 8. Revenues and Expenses of Canadian Air Carriers, 1959¹

	Canadian carriers		
	Scheduled ²	Non-scheduled	Total
	dollars		
Operating revenues:			
Unit toll transportation:			
Passengers	149,895,106	2,422,141	152,317,247
Mail	12,776,469	661,303	13,437,772
Freight	8,111,979	1,089,893	9,201,872
Express	3,561,823	68,915	3,630,738
Excess baggage	1,636,822	79,780	1,716,602
Total unit toll transportation	175,982,199	4,322,032	180,304,231
Bulk transportation	7,263,166	21,740,084	29,003,250
Other flying services	133,750	6,357,452	6,491,202
Total flying services	183,379,115	32,419,568	215,798,683
Non-flying services	2,105,805	2,519,070	4,624,875
Total operating revenues	185,484,920	34,938,638	220,423,558
Operating expenses:			
Aircraft operation and maintenance	107,859,811	23,716,240	131,576,051
Ground operation and maintenance	41,285,325	4,755,955	46,041,280
Traffic	24,517,732	780,516	25,298,248
General administration	11,963,281	3,604,182	15,567,463
General taxes	910,360	94,591	1,004,951
Total operating expenses	186,536,509	32,951,484	219,487,993
Operating income (or loss)	Dr. 1,051,589	1,987,154	935,565
Add non-operating income	1,631,611	131,532	1,763,143
Gross income	580,022	2,118,686	2,698,708
Deduct interest and other income charges	3,930,618	543,430	4,474,048
Net income before income taxes	Dr. 3,350,596	1,575,256	Dr. 1,775,340
Deduct provision for income taxes	119,915	588,923	708,838
Net income (or deficit) after income taxes	Dr. 3,470,511	986,333	Dr. 2,484,178
Operating ratio	100.6	94.3	99.6

¹ Revenues and expenses for foreign carriers not available.² Includes Canadian Trans-border, Atlantic and Pacific services.

TABLE 9. Operating Statistics of Domestic Services of Canadian Scheduled Air Carriers, 1959

	Canadian Pacific Air Lines	Maritime Central Airways	Pacific Western Airlines	Quebecair Inc.	Transair Ltd.	Trans-Canada Air Lines	Total
Miles scheduled	4,214,557	495,808	1,578,839 ¹	1,631,723 ¹	378,600	37,327,326	45,626,853
Miles flown:							
Revenue:							
Unit toll transportation	4,614,998	1,124,274	1,904,576	1,631,723	1,350,953	38,082,471	48,708,995
Bulk transportation	33,367	205,974	2,813,549	185,707	742,290	210,638	4,191,525
Total revenue	4,648,365	1,330,248	4,718,125	1,817,430	2,093,243	38,293,109	52,900,520
Non-revenue	195,447	47,679	298,563	323,235	67,121	1,054,101	1,986,146
Total miles flown	4,843,812	1,377,927	5,016,688	2,140,665	2,160,364	39,347,210	54,886,666
Hours flown:							
Revenue:							
Unit toll transportation	23,927	6,484	12,617	9,379	9,196	158,830	220,433
Bulk transportation	230	1,131	20,343	1,300	6,379	946	30,329
Other flying services	—	589	2,681	—	—	84	3,354
Total revenue	24,157	8,204	35,641	10,679	15,575	159,860	254,116
Non-revenue	1,078	290	2,275	582	539	4,868	9,632
Total hours flown	25,235	8,494	37,916	11,261	16,114	164,728	263,748
Fuel consumed:							
Turbo fuel	gal. 2,850,960	195,009	—	926,329	—	49,000,431 ³	52,972,729
Cost	\$ 488,530	46,395	—	201,189	—	7,243,299 ²	7,979,473
Gasoline	gal. 3,461,212	972,457	2,580,917	680,794	1,150,620	22,495,045 ²	31,341,045
Cost	\$ 1,288,571	311,186	1,156,770	255,298	505,042	6,259,730 ²	9,776,597
Oil for turbo aircraft	gal. 847	78	—	284	—	14,798 ²	16,007
Cost	\$ 12,489	1,123	—	4,583	—	214,156 ²	232,351
Oil for other aircraft	gal. 42,498	11,781	34,428	11,233	14,314	312,561 ²	426,815
Cost	\$ 40,315	10,722	42,230	11,233	14,314	264,218 ²	383,032
Average number of employees	1,624	181	588	257	208	9,582 ²	12,440
Salaries and wages	\$ 8,081,290	895,678	3,029,707	925,711	990,490	50,870,270 ²	64,793,146
Average number of aircraft:							
Owned	21	14	42	12	29	81 ²	199
Leased	—	—	10	—	—	—	10
Totals	21	14	52	12	29	81²	209
Ratio of miles flown to miles scheduled ¹	99.0	100.0	100.0	100.0	100.0	98.1	98.4
Revenue passenger load factor—Scheduled	64.8	61.2	50.4	50.6	..	65.9	65.1

¹ Estimated.² Includes Trans-border services.³ Includes miles flown on regular scheduled flights only.

TABLE 10. Operating Statistics of Non-scheduled Canadian Air Carriers, 1959

	Class "B" carriers	Class "C" carriers	Class "D" carriers	Total
Miles scheduled .....	...	...	...	...
Miles flown:				
Revenue:				
Unit toll transportation	3,454,601	65,786	4,752	3,525,139
Bulk transportation	18,960,520	3,116,199	2,200,547	24,277,266
Total revenue	22,415,121	3,181,985	2,205,299	27,802,405
Non-revenue .....	..	..	..	..
Total miles flown .....	..	..	..	..
Hours flown:				
Revenue:				
Unit toll transportation	29,490	811	100	30,401
Bulk transportation	178,510	29,184	20,260	227,954
Other flying services	83,767	33,841	34,060	151,668
Total revenue	291,767	63,836	54,420	410,023
Non-revenue	10,836	4,031	4,509	19,376
Total hours flown	302,603	67,867	58,929	429,399
Fuel consumed:				
Turbo fuel	gal. —	—	—	—
Cost	\$ —	—	—	—
Gasoline	gal. 10,152,536	648,713	403,997	11,205,240
Cost	\$ 4,276,204	212,990	203,621	4,694,815
Oil for turbo aircraft	gal. —	—	—	—
Cost	\$ —	—	—	—
Oil for other aircraft	gal. 140,808	6,526	6,229	153,563
Cost	\$ 183,001	12,958	12,541	208,500
Average number of employees	1,931	200	118	2,249
Salaries and wages	\$ 10,109,739	816,245	413,550	11,339,534
Average number of aircraft:				
Owned	476	146	154	776
Leased	41	13	16	70
Totals	517	159	170	846
Ratio of miles flown to miles scheduled .....	...	...	...	...
Revenue passenger load factor—Scheduled .....	...	...	...	...

TABLE 11. Operating Statistics of Atlantic and Pacific Services of Scheduled Canadian Air Carriers, 1959

	T.C.A. services	C.P.A. services	Total
Miles scheduled	7,838,326	7,792,139	15,628,465
Miles flown:			
Revenue:			
Unit toll transportation	8,049,681	7,902,189	15,951,870
Bulk transportation	123,780	91,393	215,173
Total revenue	8,173,461	7,993,582	16,167,043
Non-revenue	164,525	383,058	549,583
Total miles flown	8,337,986	8,378,640	16,716,626
Hours flown:			
Revenue:			
Unit toll transportation	31,849	28,518	60,367
Bulk transportation	473	348	821
Other flying services	—	—	—
Total revenue	32,322	28,866	61,188
Non-revenue	678	1,763	2,441
Total hours flown	33,000	30,629	63,629
Fuel consumed:			
Turbo fuel	gal. 163,630	5,921,366	6,084,996
Cost	\$ 12,164	1,149,977	1,162,141
Gasoline	gal. 13,127,081	7,324,149	20,451,230
Cost	\$ 3,185,378	2,169,875	5,355,253
Oil for turbo aircraft	gal. 44	2,446	2,490
Cost	\$ 453	37,700	38,153
Oil for other aircraft	gal. 198,820	91,728	290,548
Cost	\$ 142,586	84,031	226,617
Average number of employees	803	1,073	1,876
Salaries and wages	\$ 4,415,955	5,599,805	10,015,760
Average number of aircraft:			
Owned	11	14	25
Leased	—	—	—
Totals	11	14	25
Ratio of miles flown to miles scheduled ¹	98.8	99.3	99.0
Revenue passenger load factor—Scheduled	64.2	54.0	59.0

¹ Includes miles flown on regular scheduled flights only.

TABLE 12. Transportation Statistics of Domestic Services of Canadian Scheduled Air Carriers, 1959

	Canadian Pacific Air Lines	Maritime Central Airways	Pacific Western Airlines	Quebecair Inc.	Transair Ltd.	Trans- Canada Air Lines	Total
Passengers carried:							
Revenue:							
Scheduled:							
Originated	188,241	39,051	98,077	191,262	24,638	2,008,724	2,549,993
Domestic interline	19,697	4,157	—	—	—	299,702	23,854
Foreign interline	8,979	—	—	—	—	—	308,681
Division interline	687	—	—	—	—	84,716	85,403
Non-scheduled	4,524	7,912	10,515	—	23,221	—	46,172
Total unit toll transportation	222,128	51,120	108,592	191,262	47,859	2,393,142	3,014,103
Bulk transportation	957	4,595	29,987	5,421	6,410	9,601	56,971
Total revenue	223,085	55,715	138,579	196,683	54,269	2,402,743	3,071,074
Non-revenue	3,442	1,747	1,860	1,184	1,575	..	9,808
Total passengers carried	226,527	57,462	140,439	197,867	55,844	2,402,743	3,080,882
Passenger miles—Unit toll transportation:							
Revenue	157,027,003	10,812,259	24,002,000	25,065,095	15,947,977	1,198,193,982	1,431,048,316
Non-revenue	3,569,518	348,258	508,103	323,235	625,411	50,881,375	56,255,900
Total passenger miles	160,596,521	11,160,517	24,510,103	25,388,330	16,573,388	1,249,075,357	1,487,304,216
Freight carried (lbs.):							
Revenue:							
Scheduled:							
Originated	4,203,910	—	3,271,462	1,793,787	199,572	16,669,834	26,138,565
Domestic interline	33,225	—	—	—	—	—	33,225
Foreign interline	99,246	—	—	—	—	—	99,246
Division interline	21,786	—	—	—	—	2,472,354	2,494,140
Non-scheduled	194,186	—	107,406	—	1,847,108	—	2,148,700
Total unit toll transportation	4,552,353	—	3,378,868	1,793,787	2,046,680	19,142,188	30,913,876
Bulk transportation	47,505	384,753	9,328,005	1,197,455	3,665,473	569,188	15,192,379
Total revenue	4,599,858	384,753	12,706,873	2,991,242	5,712,153	19,711,376	46,106,255
Non-revenue	597,892	175,318	114,431	—	260,092	3,714,539	4,862,272
Total freight carried	5,197,750	560,071	12,821,304	2,991,242	5,972,245	23,425,915	50,968,527
Freight ton miles—Unit toll transportation:							
Revenue	1,506,358	—	695,226	135,686	400,908	9,231,688	11,969,866
Non-revenue	337,960	40,031	32,660	—	61,600	1,833,558	2,305,809
Total freight ton miles	1,844,318	40,031	727,886	135,686	462,508	11,065,246	14,275,675
Express carried (lbs.):							
Revenue:							
Scheduled:							
Originated	997,375	2,413,075	261,915	2,918,353	—	4,729,470	11,320,188
Domestic interline	—	52,030	—	—	—	—	52,030
Foreign interline	—	—	—	—	—	—	—
Division interline	—	—	—	—	—	498,829	498,829
Non-scheduled	14,754	3,654,036	—	—	—	—	3,668,790
Total unit toll transportation	1,012,129	6,119,141	261,915	2,918,353	—	5,228,299	15,539,837
Express ton miles—Unit toll transportation	291,450	1,642,739	75,549	215,963	—	2,224,551	4,450,252
Excess baggage carried (lbs.):							
Revenue:							
Scheduled:							
Originated	492,424	104,976	344,515	676,801	64,315	2,556,648	4,239,679
Domestic interline	26,569	—	—	—	—	29,439	56,008
Foreign interline	4,558	—	—	—	—	66,616	71,174
Division interline	178	—	—	—	—	211,169	211,347
Non-scheduled	11,080	61,679	20,014	—	82,372	—	175,145
Total unit toll transportation	534,809	166,655	364,529	676,801	146,687	2,863,872	4,753,353
Excess baggage ton miles—Unit toll transportation	188,051	26,248	68,619	78,256	30,411	562,279	955,864
Mall carried (lbs.)—Unit toll transportation	2,354,115	1,355,660	889,010	919,456	606,210	21,597,954	27,722,405
Mall ton miles—Unit toll transportation	558,534	150,832	234,954	62,809	73,257	8,543,163	9,623,549
Available seat miles—Scheduled	242,187,232	17,666,607	47,635,001	49,513,748	..	1,817,235,738	2,174,238,326
Available ton miles—Scheduled	34,222,757	3,110,412	5,639,364	5,295,185	1,193,419	245,062,856	294,528,361

TABLE 13. Transportation Statistics of Canadian Non-scheduled Air Carriers, 1959

	Class "B" carriers	Class "C" carriers	Class "D" carriers	Total
Passengers carried:				
Revenue:				
Scheduled:				
Originated .....	...	...	...	...
Domestic interline .....	...	...	...	...
Foreign interline .....	...	...	...	...
Division interline .....	...	...	...	...
Non-scheduled	80,816	3,147	234	...
Total unit toll transportation	80,816	3,147	234	84,197
Bulk transportation	311,937	92,816	36,958	441,711
Total revenue	392,753	95,963	37,192	525,908
Non-revenue	3,692	1,615	2,046	7,353
Total passenger carried	396,445	97,578	39,238	533,261
Passenger miles - Unit toll transportation:				
Revenue	17,819,395	282,489	741	18,102,625
Non-revenue	799,016	-	-	799,016
Total passenger miles	18,618,411	282,489	741	18,901,641
Freight carried (lbs.):				
Revenue:				
Scheduled:				
Originated .....	...	...	...	...
Domestic interline .....	...	...	...	...
Foreign interline .....	...	...	...	...
Division interline .....	...	...	...	...
Non-scheduled	7,398,401	-	-	7,398,401
Total unit toll transportation	7,398,401	-	-	7,398,401
Bulk transportation	101,928,138	7,448,285	1,954,935	111,331,358
Total revenue	109,326,539	7,448,285	1,954,935	118,729,759
Non-revenue	2,272,177	58,492	154,095	2,484,764
Total freight carried	111,598,716	7,506,777	2,109,030	121,214,523
Freight ton miles - Unit toll transportation:				
Revenue	1,887,450	-	-	1,887,450
Non-revenue	168,783	-	-	168,783
Total freight ton miles	2,054,233	-	-	2,054,233
Express carried (lbs.):				
Revenue:				
Scheduled:				
Originated .....	...	...	...	...
Domestic interline .....	...	...	...	...
Foreign interline .....	...	...	...	...
Division interline .....	...	...	...	...
Non-scheduled	460,948	-	-	460,948
Total unit toll transportation	460,948	-	-	460,948
Express ton miles - Unit toll transportation	58,454	-	-	58,454
Excess baggage carried (lbs.):				
Revenue:				
Scheduled:				
Originated .....	...	...	...	...
Domestic interline .....	...	...	...	...
Foreign interline .....	...	...	...	...
Division interline .....	...	...	...	...
Non-scheduled	325,504	-	-	325,504
Total unit toll transportation	325,504	-	-	325,504
Excess baggage ton miles - Unit toll transportation	71,171	-	-	71,171
Mail carried (lbs.) - Unit toll transportation	1,688,448	5,509	6,136	1,700,093
Mail ton miles - Unit toll transportation	220,527	27	34	220,588
Available seat miles - Scheduled .....	...	...	...	...
Available ton miles - Scheduled .....	...	...	...	...

TABLE 14. Transportation Statistics of Atlantic and Pacific Services of Canadian Scheduled Air Carriers, 1959

	T. C. A. services	C. P. A. services	Total
Passengers carried:			
Revenue:			
Scheduled:			
Originated	151,231	59,239	210,470
Domestic interline	—	1,715	1,715
Foreign interline	—	16,688	16,688
Division interline	18	1,321	1,339
Non-scheduled	—	—	—
Total unit toll transportation	151,249	78,963	230,212
Bulk transportation	2,522	1,336	3,858
Total revenue	153,771	80,299	234,070
Non-revenue .....	..	4,077	4,077
Total passengers carried	153,771	84,376	238,147
Passenger miles — Unit toll transportation:			
Revenue	330,095,410	293,862,301	623,957,711
Non-revenue	29,440,602	10,254,144	39,694,746
Total passenger miles	359,536,012	304,116,445	663,652,457
Freight carried (lbs.):			
Revenue:			
Scheduled:			
Originated	3,013,476	512,157	3,525,633
Domestic interline	—	56,859	56,859
Foreign interline	—	368,002	368,002
Division interline	2,309	162,105	164,414
Non-scheduled	—	—	—
Total unit toll transportation	3,015,785	1,097,123	4,112,908
Bulk transportation	—	—	—
Total revenue	3,015,785	1,097,123	4,112,908
Non-revenue	544,268	440,689	984,957
Total freight carried	3,560,053	1,537,812	5,097,865
Freight ton miles — Unit toll transportation:			
Revenue	4,263,325	3,235,619	7,498,944
Non-revenue	745,561	1,048,199	1,793,760
Total freight ton miles	5,008,886	4,283,818	9,292,704
Express carried (lbs.):			
Revenue:			
Scheduled:			
Originated	—	—	—
Domestic interline	—	—	—
Foreign interline	—	—	—
Division interline	—	—	—
Non-scheduled	—	—	—
Total unit toll transportation	—	—	—
Express ton miles — Unit toll transportation	—	—	—
Excess baggage carried (lbs.):			
Revenue:			
Scheduled:			
Originated	280,553	98,060	378,613
Domestic interline	—	2,085	2,085
Foreign interline	—	25,345	25,345
Division interline	—	1,164	1,164
Non-scheduled	—	—	—
Total unit toll transportation	280,553	126,674	407,227
Excess baggage ton miles — Unit toll transportation	249,935	233,115	483,050
Mail carried (lbs.) — Unit toll transportation	1,215,687	339,888	1,555,575
Mail ton miles — Unit toll transportation	2,013,152	909,360	2,922,512
Available seat miles — Scheduled	513,791,789	544,190,055	1,057,981,844
Available ton miles — Scheduled	63,235,501	61,087,167	124,322,668

TABLE 15. Revenues and Expenses of Canadian Scheduled Air Carriers, 1959

	Canadian Pacific Air Lines ¹	Maritime Central Airways	Pacific Western Airlines	Quebecair Inc.	Transair Ltd.	Trans- Canada Air Lines ²	Total
	dollars						
Operating revenues:							
Unit toll transportation:							
Passengers	28,544,182	1,003,603	2,166,983	2,392,682	1,449,127	114,338,529	149,895,106
Mail	1,965,501	242,844	305,625	93,588	182,436	9,986,475	12,776,469
Freight	2,101,807	—	427,923	385,079	377,984	4,819,186	8,111,979
Express	266,413	761,165	87,679	—	—	2,446,566	3,561,823
Excess baggage	372,302	29,911	78,179	85,599	29,856	1,040,975	1,636,822
Total unit toll transportation	33,250,205	2,037,523	3,066,389	2,956,948	2,039,403	132,631,731	175,982,199
Bulk transportation	374,386	337,379	4,734,252	225,206	739,117	852,826	7,263,166
Other flying services	—	58,943	—	—	51,022	23,785	133,750
Total flying services	33,624,591	2,433,845	7,800,641	3,182,154	2,829,542	133,508,342	183,379,115
Non-flying services	364,565	464,544	63,250	4,802	38,238	1,170,406	2,105,805
Total operating revenues	33,989,156	2,898,389	7,863,891	3,186,956	2,867,780	134,678,748	185,484,920
Operating expenses:							
Aircraft operation and maintenance	24,010,675	1,760,594	5,298,042	1,762,269	1,873,881	73,154,350	107,859,811
Ground operation and maintenance	6,368,126	579,882	830,950	671,052	556,257	32,279,058	41,285,325
Traffic	5,427,121	66,505	756,422	299,252	33,714	17,934,718	24,517,732
General administration	2,328,735	242,930	723,179	198,985	236,487	8,232,965	11,963,281
General taxes	190,058	17,168	14,036	13,588	11,330	664,180	910,360
Total operating expenses	38,324,715	2,667,079	7,622,629	2,945,146	2,711,669	132,265,271	186,536,509
Operating income (or loss)	Dr. 4,335,559	231,310	241,262	241,810	156,111	2,413,477	Dr. 1,051,589
Add non-operating income	312,455	153,306	388,102	667	39,883	737,218	1,831,611
Gross income	Dr. 4,023,104	384,616	629,364	242,477	195,974	3,150,695	580,022
Deduct interest and other income charges	337,035	154,931	208,791	92,139	139,581	2,998,141	3,930,618
Net income before income taxes	Dr. 4,360,139	229,685	420,573	150,338	56,393	152,554	Dr. 3,350,596
Deduct provision for income taxes	—	95,700	5,148	13,471	5,596	—	119,915
Net income (or deficit after income taxes)	Dr. 4,360,139	133,985	415,425	136,867	50,797	152,554	Dr. 3,470,511
Operating ratio	112.8	92.0	96.9	92.4	94.6	96.2	100.6

¹ C.P.A. consolidated financial statement, includes: Domestic Trans-Polar and Pacific services.
² T.C.A. consolidated financial statement, includes: Domestic, Trans-border and Atlantic services.

TABLE 16. Revenues and Expenses of Canadian Non-scheduled Air Carriers, 1959

	Class "B" carriers	Class "C" carriers	Class "D" carriers	Total
	dollars			
Operating revenues:				
Unit toll transportation:				
Passengers	2,421,650	491	—	2,422,141
Mail	660,276	1,027	—	661,303
Freight	1,089,893	—	—	1,089,893
Express	68,915	—	—	68,915
Excess baggage	79,780	—	—	79,780
Total unit toll transportation	4,320,514	1,518	—	4,322,032
Bulk transportation	19,466,059	1,599,236	674,789	21,740,084
Other flying services	5,081,453	650,116	625,883	6,357,452
Total flying services	28,868,026	2,250,870	1,300,672	32,419,568
Non-flying services	1,798,938	202,691	517,441	2,519,070
Total operating revenues	30,668,964	2,453,561	1,818,113	34,938,638
Operating expenses:				
Aircraft operation and maintenance	20,747,054	1,785,614	1,183,572	23,716,240
Ground operation and maintenance	4,101,763	343,018	311,174	4,755,955
Traffic	644,059	65,617	70,840	780,518
General administration	3,058,341	343,906	201,935	3,604,182
General taxes	98,260	Cr. 10,758	7,089	94,591
Total operating expenses	28,649,477	2,527,397	1,774,610	32,951,484
Operating income (or loss)	2,017,487	Dr. 73,836	43,503	1,987,154
Add non-operating income	151,931	Dr. 51,665	31,266	131,532
Gross income	2,169,418	Dr. 125,501	74,769	2,118,686
Deduct interest and other income charges	466,844	48,991	27,595	543,430
Net income before income taxes	1,702,574	Dr. 174,492	47,174	1,575,256
Deduct provision for income taxes	565,688	12,004	11,231	588,923
Net income (or deficit) after income taxes	1,136,886	186,496	35,943	986,333
Operating ratio	93.4	103.0	97.6	94.3

TABLE 17. Employees, Salaries and Wages of Canadian and Foreign Air Carriers, 1959

Canadian carriers	Employees	Salaries and wages	Companies	Employees	Salaries and wages
		\$			\$
General officers	1, 102	9, 278, 651	Canadian Pacific Air Lines ¹	2, 697	13, 681, 095
Clerks and stenographers	2, 167	7, 744, 360	Maritime Central Airways	181	895, 678
Pilots	1, 612	14, 740, 564	Pacific Western Airlines	588	3, 029, 707
Co-pilots	237	1, 903, 379	Quebecair Inc.	257	925, 711
Despatchers	207	1, 160, 644	Transair Ltd.	208	990, 490
Communication operators ²	427	1, 594, 418	Trans-Canada Air Lines ¹	10, 385	55, 286, 225
Stewards or other attendants	929	3, 733, 468	Total scheduled	14, 316	74, 808, 906
Air engineers	990	5, 981, 205	Class "B" carriers	1, 931	10, 109, 739
Mechanics	3, 051	15, 132, 277	Class "C" carriers	200	816, 245
Airport employees	2, 586	10, 625, 488	Class "D" carriers	118	413, 550
Stores employees	410	1, 623, 835	Total Canadian	16, 565	86, 148, 440
Other employees	2, 847	12, 630, 151	Foreign carriers:		
Totals	16, 565	86, 148, 440	Trans-border services	290	1, 474, 001
			Atlantic and Pacific services	471	2, 224, 324
			Total carriers	17, 326	87, 846, 765

¹ Includes Overseas Services.² Decrease due to reclassification.TABLE 18. Accidents involving Canadian Air Carriers, 1955-59¹

	1958 ²	1957	1956	1955		1958 ²	1957	1956	1955
Casualties:					Number of accidents reported	355	396	262	264
Pilot:					Type of flying:				
Fatal	30	40	26	40	Instructional	7	12	6	6
Serious	20	30	13	17	Practice	26	48	26	7
Minor	8	14	13	13	Private	236 ³	230 ³	151 ³	152 ³
Crew:					Scheduled	—	4 ³	3 ³	2 ³
Fatal	—	5	7	2	Non-scheduled	112 ³	154 ³	106 ³	107 ³
Serious	—	—	1	—	State	7 ³	8 ³	2 ³	3 ³
Minor	—	1	—	1	Other (including ferry, test, etc.)	—	5	4	5
Passengers:					Probable cause (per cent):				
Fatal	21	135	97	42	Personnel	76.9	73.2	74.8	51.9
Serious	27	13	18	26	Material failure	7.3	12.8	14.6	19.7
Minor	9	11	18	16	Weather	2.8	2.3	1.5	7.6
Other:					Aerodrome terrain or water	3.4	3.1	5.3	11.0
Fatal	—	—	—	2	Miscellaneous	2.5	3.1	—	2.3
Serious	1	5	—	1	Undetermined	7.1	5.5	3.8	7.5
Minor	—	1	1	—					
Operational phase:									
Engine running not taxiing	7	5	—	4					
Taxying	32	30	16	30					
Take-off	87	78	36	56					
En route	66	85	45	41					
Landing	155	195	163	127					
Missed landing	8	—	—	—					
Aircraft at rest	—	3	1	6					
Undetermined	—	—	—	—					

¹ As reported by Civil Aviation Division, Department of Transport.² Subject to revision.³ Includes instructional, practice, and other flying accidents.

Note: Data for 1959 are not available.

TABLE 19. Personnel and Airport Licences Issued and Aircraft Registered as of December 31, 1959¹

Personnel	In force December 31, 1959	In force December 31, 1958	Aircraft registered	Total December 31, 1959	Total December 31, 1958
Pilots:					
Glider	376	304	Commercial	1, 880	1, 879
Private	10, 596	9, 043	Private	2, 780	2, 438
Commercial (old type)	—	—	State	197	192
Commercial	2, 338	2, 548	Grand totals	4, 857	4, 509
Senior commercial	407	423			
Transport	—	—	Airports		
Airline transport	1, 179	1, 069			
Air navigators	104	108		In force December 31, 1959	In force December 31, 1958
Air traffic controllers	722	631			
Flight engineers	54	49		456	452
Aircraft maintenance engineers ..	1, 863	2, 043			

¹ As reported by Civil Aviation Division, Department of Transport.

TABLE 20. Statistical Summary of Operations of Canadian Helicopter Carriers, 1959¹

	1959		1959
Average number of aircraft	110	Operating revenues:	
Revenue miles flown - Bulk Transportation	2,034,603	Bulk transportation	4,172,502
Revenue hours flown	56,116	Other flying services	1,260,328
Revenue passengers carried	43,807	Non-flying services	248,447
Revenue freight carried (lbs.)	5,299,612	Total	5,681,277
Fuel consumed:		Operating expenses:	
Gasoline gal.	953,517	Aircraft operation and maintenance	3,891,179
Cost \$	522,736	Ground operation and maintenance	558,933
Oil gal.	20,347	Traffic, general administration and taxes	659,398
Cost \$	31,104	Total	5,109,510
Average number of employees	331	Operating income (or loss)	571,767
Salaries and wages \$	2,140,634	Net income (or deficit) after income taxes	402,151

¹ These data are included in preceding tables.

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