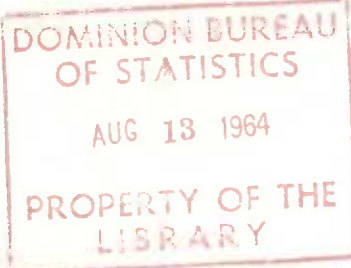


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SYMBOLS

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

- .. Figures are not available.
- ... Figures not appropriate or not applicable.
- Nil or zero.

INTRODUCTION

"Civil Aviation" reports are prepared from monthly and quarterly schedules filed with the Air Transport Board and the Dominion Bureau of Statistics by Canadian commercial air carriers, and from monthly returns filed with the Dominion Bureau of Statistics by foreign air carriers operating in Canada.

For reporting purposes, Canadian air carriers are classified into five groups on the basis of gross annual flying revenues and type of service performed. These groups are described on page twenty of this publication along with other definitions. It should be noted that the definition of each of the five groups has been revised as of 1st January, 1964. This revision resulted in four former group III carriers being transferred to Group IV and 24 former Group IV carriers being transferred to Group V. It should also be noted that Nordair Ltd., classified as a Group II carrier by the Air Transport Board, is included with Group III carriers for statistical purposes. Group V comprises small air carriers required to file returns on a quarterly basis only. Data on their operations are excluded from the other carrier statistics appearing throughout the report.

Whenever feasible the unit toll services are broken down into scheduled and non-scheduled. A complete breakdown is not possible as some carriers offer both services on specific routes. In such cases the route is assigned to the class of service which predominates.

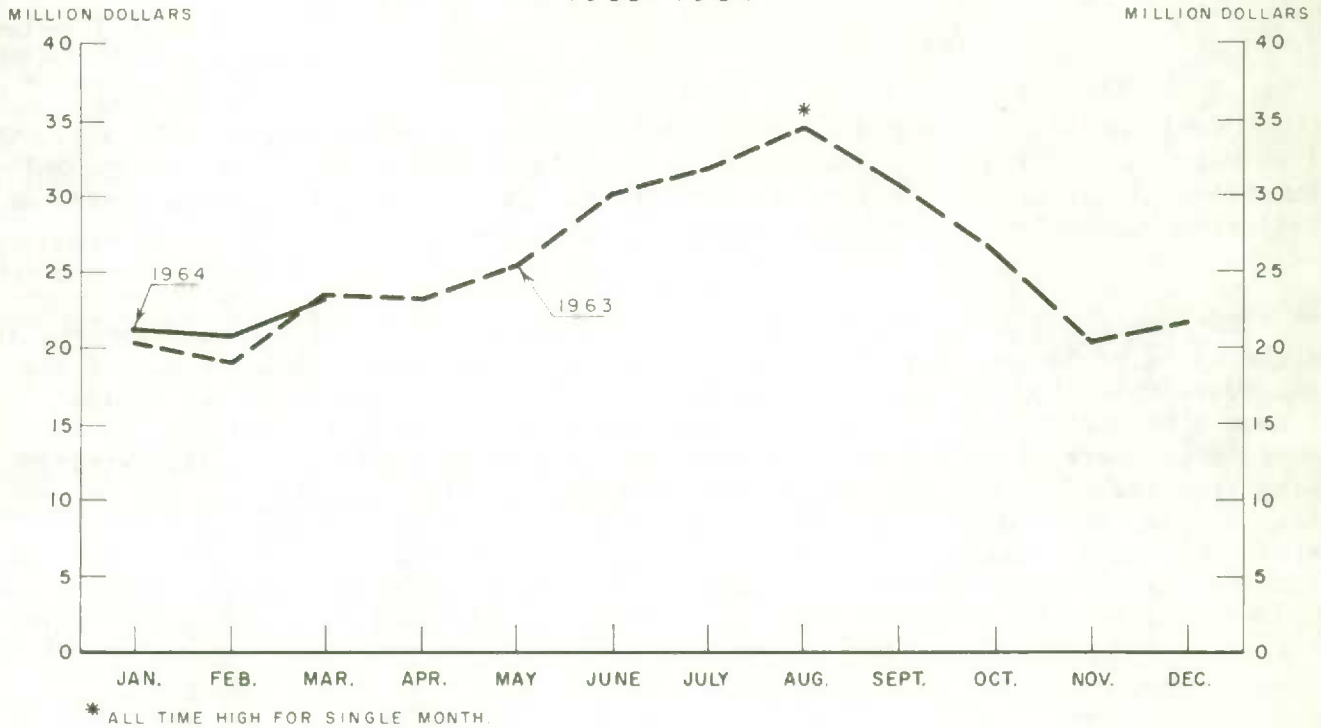
Domestic and international operations of Canadian carriers are combined in all tables except Table 6 which provides a breakdown of domestic and international operations for Canadian carriers operating international unit toll and bulk services.

Commencing with the January, 1964 issue, bulk transport passenger-miles and goods-ton-miles have been added to the statistical data of this report. However, because of survey limitations, this data refers only to aircraft which has a minimum authorized take-off weight on wheels in excess of 18,000 pounds. Operating data covering bulk international flights have also been added to Table 6. It should be noted, however, that the number of carriers reporting international bulk services may vary from month to month.

Table 7 provides data on traffic leaving and entering Canada on an area of service basis. Passengers, cargo and mail in transit through Canada are excluded. The table contains the operations of both Canadian and Foreign carriers with separate totals for each.

Also commencing with the January, 1964 issue of "Civil Aviation", data on helicopters have been expanded to include more detail. A split has been made between the use of fixed wing aircraft and helicopters for specialty flying.

OPERATING REVENUE OF CANADIAN AIR CARRIERS 1963-1964



REVENUE GOODS CARRIED BY CANADIAN AIR CARRIERS 1963-1964



REVIEW OF MARCH OPERATIONS

Increases were reported in the transportation of both revenue passengers and goods by Canadian Air Carriers during the month of March compared with March 1963. Although passengers carried totalled 414,102, an increase of less than one per cent, goods transported rose to 9,678 tons, an increase of 8.0 per cent. The revenue miles flown were down 5.5 per cent to 7,357,253. Passenger-miles and goods-ton-miles performed by Canadian carriers in unit toll and bulk services totalled 296,142,687 and 7,660,608 respectively. Unit toll services accounted for 95.5 per cent of the total passenger-miles and 88.5 per cent of the total goods-ton-miles.

March operating revenues showed a 1.2 per cent decrease under March 1963 to \$23,289,338 while operating expenses rose 5.1 per cent to \$24,409,705, thus an operating loss of \$1,120,367 was reported. This compared with a gain of \$347,975 for the same month the previous year. A net deficit after provision for income taxes of \$2,009,592 was reported as against a deficit of \$584,540 in March 1963.

The operations of Group V carriers for the first quarter of 1964 are covered in Table 11. The 284 carriers reporting in the quarter transported 25,468 passengers and 936 tons of revenue goods.

Revenue hours reported flown by 12 carriers who operated 100 helicopters exclusively amounted to 2,267. Hours reported flown by 9 helicopters operated by 7 fixed wing carriers totalled 191. Operating revenues reported by helicopter carriers amounted to \$268,565 while the operating expenses amounted to \$347,017.

In March the six scheduled carriers transported 390,241 revenue passengers, 94.2 per cent of all passengers carried by all Canadian carriers. They also carried 6,775 tons of revenue goods, 70.0 per cent of the total. Operating revenues amounted to \$21,388,181 or 91.8 per cent of all Canadian air carrier revenues. Operating expenses amounted to \$22,436,195 or 91.9 per cent of the total. Comparable figures for March 1963 are: passengers 92.6 per cent, goods 71.5 per cent, revenues 91.0 per cent and expenses 90.0 per cent.

Revenue passenger-miles performed by Canadian Carriers in international unit toll service in March amounted to 133,948,449 or 47.3 per cent of the total unit toll passenger-miles. The division of international services by air was as follows:

<u>Area</u>	<u>Percentage</u>
Trans-Border	20.6
Trans-Atlantic and Polar	26.8
Southern	36.8
Pacific and Orient	15.8
Totals	<u>100.0</u>

The Cumulative View

The first quarter of 1964 compared with the same period in 1963 showed the revenue passengers increased 10.3 per cent to 1,192,135, while revenue goods rose 10.8 per cent to 2,655 tons. Passenger-miles and goods-ton-miles performed by Canadian carriers totalled 846,695,861 and 21,246,315 respectively. Operating revenues increased 3.5 per cent to \$65,262,179 while operating expenses increased 6.7 per cent to \$71,158,810.

Foreign Carriers

Foreign carriers licensed to operate in Canada transported 69,593 revenue passengers during March, an increase of 15.5 per cent over March 1963. Revenue goods carried totalled 1,320 tons, an increase of 21.9 per cent. Foreign carriers report hours and miles flown over Canadian territory only. Statistics of passengers and goods in transit have been excluded.

TABLE 1. Operating Statistics, Canadian and Foreign Carriers - All Services

March 1964

	Canadian carriers					Foreign carriers(2)		Grand total all carriers	Year to date
	Scheduled carriers	Non-scheduled carriers			Total Canadian carriers	United States carriers	Other Foreign carriers(3)		
	Group I and II(1)	Group III(1)	Group IV	Total					
Number of carriers reporting ...	6	13	47	60	66	10	9	85	..
Revenue transportation services:									
Unit toll:									
Departures No.	16,826	1,453	678	2,131	18,957	..	..	..	..
Hours flown "	21,006	1,374	360	1,734	22,740	333	862	23,935	70,290
Miles scheduled "	5,533,165	...	...	...	5,533,165	84,506	334,642	5,952,313	17,049,905
Miles flown:									
Scheduled "	5,438,489(4)	...	...	...	5,438,489(4)	81,388	341,981	5,861,858	17,001,791(4)
Non-scheduled "	263,735(4)	180,001	43,475	223,476	487,211(4)	-	-	487,211	1,537,120(4)
Totals "	5,702,224	180,001	43,475	223,476	5,925,700	81,388	341,981	6,349,069	18,538,911
Passengers carried "	381,329	3,527	2,537	6,064	387,393	51,910	17,069	456,372	1,312,228
Goods carried:									
Cargo lb.	8,086,382	434,993	186,769	621,762	8,708,144	759,868	1,542,257	11,137,464	30,971,572
Excess baggage "	118,882(5)	2,985	5,328	8,313	127,195(5)	-	-	-	-
Mail "	3,832,525	153,010	18,051	171,061	4,003,586	152,725	184,398	4,340,709	12,393,637
Totals "	12,037,789	590,988	210,148	801,136	12,838,925	912,593	1,726,655	15,478,173	43,365,209
Passenger-miles No.	281,736,502	1,049,343	128,527	1,177,870	282,914,372✓	2,211,234	11,572,198	296,697,804	844,378,350
Goods ton-miles:									
Cargo "	4,740,983	142,230	80,438	222,668	4,963,651✓	16,950	588,764	5,809,539	15,744,158
Excess baggage "	238,473	1,538	163	1,701	240,174✓	-	-	-	-
Mail "	1,541,312	36,559	1,096	37,655	1,578,967✓	3,373	78,494	1,660,834	4,771,933
Totals "	6,520,768	180,327	81,697	262,024	6,782,792	20,323	667,258	7,470,373	20,516,091
Bulk:									
Departures "	1,873	3,268	8,539	11,807	13,680	..	..	..	..
Hours flown "	2,381	4,476	6,313	10,789	13,170✓	-	27	13,197	33,519
Miles flown "	368,978	433,717	628,858	1,062,575	1,431,553	-	11,200	1,442,753	3,927,845
Passengers carried "	8,912	5,744	12,053	17,797	26,709	-	614	27,323	75,748
Freight carried lb.	1,512,343	3,192,589	1,803,731	4,996,320	6,508,663	-	-	6,508,663	16,968,257
Passenger-miles(6) No.	12,220,040	712,541	295,734	1,008,275	13,228,315	-	..	..	..
Goods ton-miles(6) "	336,117	507,644	34,055	541,699	877,816	-	..	..	..
Revenue non-transportation services:									
Specialty flying - Hours flown "	267	1,062	4,365	5,427	5,694✓	-	-	5,694	14,176

See footnotes at end of table.

TABLE 1. Operating Statistics, Canadian and Foreign Carriers - All Services - Concluded

March 1964

	Canadian carriers					Foreign carriers(2)		Grand total all carriers	Year to date
	Scheduled carriers	Non-scheduled carriers			Total Canadian carriers	United States carriers	Other Foreign carriers(3)		
	Groups I and II(1)	Group III(1)	Group IV	Total					
Total - All services:									
Revenue:									
Traffic, miles and hours:(7)									
Departures	No.	18,699	4,721	9,217	13,938	32,637	..	..	..
Hours flown	"	23,654	6,912	11,038	17,950	41,604	333	889	42,826
Miles flown	"	6,071,202	613,718	672,333	1,286,051	7,357,253	81,388	353,181	7,791,822
Passengers carried	"	390,241	9,271	14,590	23,861	414,102	51,910	17,683	483,695
Cargo carried	lb.	9,598,725	3,627,582	1,990,500	5,618,082	15,216,807	759,868(8)	1,542,257(8)	16,518,932(8)
Goods carried	"	13,550,132	3,783,577	2,013,879	5,797,456	19,347,588	912,593	1,726,655	21,986,836
Passenger-miles(6)	No.	293,956,542	1,761,884	424,261	2,186,145	296,142,687	2,211,234	..	..
Goods ton-miles(6)	"	6,856,885	687,971	115,752	803,723	7,660,608	-	..	..
Non-revenue:									
Hours flown	"	863	371	411	782	1,645	1	3	1,649
Passengers carried	"	..	88	27	115	..	895	357	..
Goods carried	lb.	..	55,039	-	55,039	..	8,600	57,347	..
Passenger-miles	No.	14,860,880	98,860	4,960	103,820	14,964,700	44,121	226,673	15,235,494
Goods ton-miles	"	484,857	37,577	-	37,577	522,434	211	16,325	538,970
Fuel and oil consumed:									
Turbo fuel - Quantity	gal.	14,926,776	-	9,494	9,494	14,936,270	133,390	1,960,640	17,030,300
Cost	\$	2,127,072	-	2,588	2,588	2,129,660	17,484	288,036	2,435,180
Gasoline - Quantity	gal.	887,152	372,831	170,491	543,322	1,430,474	36,900	111,187	1,578,561
Cost	\$	294,286	155,404	73,463	228,867	523,153	9,478	25,475	558,106
Turbo oil - Quantity	gal.	3,158	-	2	2	3,160	26	53	3,239
Cost	\$	32,698	-	30	30	32,728	52	485	33,265
Other oil - Quantity	gal.	12,728	4,644	3,211	7,855	20,583	10	235	20,828
Cost	\$	13,243	8,392	4,187	12,579	25,822	5	192	26,019
Average number of employees:									
Pilots and co-pilots	No.	993	199	225	424	1,417	..	..	..
Other flight personnel	"	1,011	13	18	31	1,042	..	..	..
General management	"	341	77	75	152	493	..	..	..
Maintenance labour	"	3,595	250	211	461	4,056	..	..	..
Aircraft & traffic servicing	"	4,944	57	44	101	5,045	..	..	..
Other personnel	"	4,562	171	95	266	4,828	..	..	..
Totals	"	15,446	767	668	1,435	16,881	231	729	17,841
Salaries and wages paid:									
Pilots and co-pilots	\$	1,178,540	144,551	124,251	268,802	1,447,342	..	..	..
Other flight personnel	\$	468,206	8,901	7,237	16,138	484,344	..	..	..
General management	\$	288,841	50,556	41,863	92,419	381,260	..	..	..
Maintenance labour	\$	1,851,351	109,312	75,947	185,259	2,036,610	..	..	..
Aircraft & traffic servicing	\$	2,450,642	25,043	14,183	39,226	2,489,868	..	..	..
Other personnel	\$	2,283,255	64,524	31,298	95,822	2,379,077	..	..	..
Totals	\$	8,520,835	402,887	294,779	697,666	9,218,501	114,006	357,235	9,689,742
29,103,315									

(1) Group II non-scheduled carriers included with Group III for purposes of this report.

(2) See "Foreign Carriers", page 7, last paragraph.

(3) Includes fifth freedom traffic between United States and Canada.

(4) Breakdown into scheduled and non-scheduled service not entirely accurate as some carriers operate the two types of service jointly on certain routes.

(5) Excludes Trans-Canada Air Lines.

(6) Excludes chartered aircraft not having a maximum authorized take-off weight on wheels in excess of 18,000 pounds.

(7) These data exclude non-transportation services, except for hours flown.

(8) Includes excess baggage.

(9) Data in Tables 4, 5, 6, 7, 8 and 9 included in this table.

TABLE 2. Statement of Income, Canadian Carriers - All Services, by Revenue Group

March 1964

	Scheduled carriers			Non-scheduled carriers			Grand total	Year to date
	Group I	Group II(1)	Total	Group III(1)	Group IV	Total		
	dollars							
Operating revenues:								
Unit toll transportation:								
Passengers	16,474,789	764,078	17,238,867	114,713	25,789	140,502	17,379,369	49,450,240
Express	286,946	15,289	302,235	6,510	4,239	10,749	312,984	962,930
Freight	1,138,388	176,539	1,314,927	65,486	8,674	74,160	1,389,087	3,798,342
Excess baggage	113,518	13,245	126,763	1,540	304	1,844	128,607	370,353
Mail	1,227,223	159,479	1,386,702	64,255	4,158	68,413	1,455,115	4,139,449
Total unit toll transportation ..	19,240,864	1,128,630	20,369,494	252,504	43,164	295,668	20,665,162	58,721,314
Bulk transportation	315,203	385,431	700,634	636,379	502,542	1,138,921	1,839,555	4,824,694
Total transportation	19,556,067	1,514,061	21,070,128	888,883	545,706	1,434,589	22,504,717	63,546,008
Other flying services	3,711	40,381	44,092	160,370	134,705	295,075	339,167	762,331
Total flying services	19,559,778	1,554,442	21,114,220	1,049,253	680,411	1,729,664	22,843,884	64,308,339
Non-flying services	250,697	23,264	273,961	54,215	117,278	171,493	445,454	953,840
Total operating revenues	19,810,475	1,577,706	21,388,181	1,103,468	797,689	1,901,157	23,289,338	65,262,179
Operating expenses:								
Flying operations	5,001,841	569,300	5,571,141	449,875	356,503	806,378	6,377,519	18,383,464
Maintenance	4,520,786	474,850	4,995,636	422,532	223,920	646,452	5,642,088	16,371,512
General services and administration:								
Passenger service	1,537,814	54,355	1,592,169	..	..	..	..	..
Aircraft and traffic servicing	3,156,514	225,691	3,382,205	..	..	..	..	..
Promotion and sales	3,319,341	130,314	3,449,655	..	..	..	..	..
General administration	907,466	84,540	992,006	..	..	..	..	..
Totals	8,921,135	494,900	9,416,035	206,408	142,144	348,552	9,764,587	28,509,185
Depreciation and amortization	2,301,803	151,580	2,453,383	94,494	77,634	172,128	2,625,511	7,894,649
Total operating expenses	20,745,565	1,690,630	22,436,195	1,173,309	800,201	1,973,510	24,409,705	71,158,810
Operating income (loss)	Dr. 935,090	Dr. 112,924	Dr. 1,048,014	Dr. 69,841	Dr. 2,512	Dr. 72,353	Dr. 1,120,367	Dr. 5,896,631
Non-operating income - Net:								
Capital gains and losses	-	Dr. 65	Dr. 65	12,215	Dr. 152	12,063	11,998	128,245
Interest and discounts	152,164	700	152,864	4,618	2,116	6,734	159,598	440,707
Miscellaneous non-operating income ..	5,451	5,250	10,701	7,760	265	8,025	18,726	62,074
Income before interest expense	Dr. 777,475	Dr. 107,039	Dr. 884,514	Dr. 45,248	Dr. 283	Dr. 45,531	Dr. 930,045	Dr. 5,265,605
Interest expense	978,250	59,998	1,038,248	22,416	10,459	32,875	1,071,123	3,124,747
Income before income taxes	Dr. 1,755,725	Dr. 167,037	Dr. 1,922,762	Dr. 67,664	Dr. 10,742	Dr. 78,406	Dr. 2,001,168	Dr. 8,390,352
Provision for income taxes	-	-	-	-	8,424	8,424	8,424	21,321
Net income after income taxes	Dr. 1,755,725	Dr. 167,037	Dr. 1,922,762	Dr. 67,664	Dr. 19,166	Dr. 86,830	Dr. 2,009,592	Dr. 8,411,673

(1) Group II non-scheduled carriers included with Group III for purposes of this report.

(2) Data in Tables 3, 8 and 10 included in this table.

TABLE 3. Statement of Income, Canadian Scheduled Carriers - All Services, by Company

March 1964

	Canadian Pacific Air Lines	Eastern Provincial Airways (1963)	Pacific Western Airlines	Quebecair Inc.	Transair Ltd.	Trans- Canada Air Lines	Total	Year to date
	dollars							
Operating revenues:								
Unit toll transportation:								
Passengers	3,888,163	139,922	278,883	212,250	133,023	12,586,626	17,238,867	48,955,721
Express	13,354	2,511	9,561	-	3,217	273,592	302,235	928,657
Freight	317,238	66,215	57,592	32,231	20,501	821,150	1,314,927	3,587,739
Excess baggage	40,543	2,732	4,389	4,576	1,548	72,975	126,763	362,156
Mail	261,476	84,408	44,654	6,180	24,237	965,747	1,386,702	3,951,465
Total unit toll transportation ..	4,520,774	295,788	395,079	255,237	182,526	14,720,090	20,369,494	57,785,738
Bulk transportation	156,620	104,492	154,490	-	126,449	158,583	700,634	2,105,959
Total transportation	4,677,394	400,280	549,569	255,237	308,975	14,878,673	21,070,128	59,891,697
Other flying services	-	40,381	-	-	-	3,711	44,092	70,564
Total flying services	4,677,394	440,661	549,569	255,237	308,975	14,882,384	21,114,220	59,962,261
Non-flying services	84,696	17,338	892	2,963	2,071	166,001	273,961	616,100
Total operating revenues	4,762,090	457,999	550,461	258,200	311,046	15,048,385	21,388,181	60,578,361
Operating expenses:								
Flying operations	1,654,478	145,430	223,790	67,187	132,893	3,347,363	5,571,141	16,295,513
Maintenance	762,822	134,412	141,880	71,064	127,494	3,757,964	4,995,636	14,698,110
General services and administrations:								
Passenger service	374,790	9,630	18,232	8,100	18,393	1,163,024	1,592,169	4,560,971
Aircraft and traffic servicing	538,365	62,418	114,032	27,457	21,784	2,618,149	3,382,205	9,911,141
Promotion and sales	902,785	11,303	32,321	49,427	37,263	2,416,556	3,449,655	9,990,409
General administration	195,409	6,316	35,321	24,420	18,483	712,057	992,006	2,960,742
Totals	2,011,349	89,667	199,906	109,404	95,923	6,909,786	9,416,035	27,423,263
Depreciation and amortization	178,796	71,162	27,198	33,030	20,190	2,123,007	2,453,383	7,323,525
Total operating expenses	4,607,445	440,671	592,774	280,685	376,500	16,138,120	22,436,195	65,740,411
Operating income (loss)	154,645	17,328	Dr. 42,313	Dr. 22,485	Dr. 65,454	Dr. 1,089,735	Dr. 1,048,014	Dr. 5,162,050
Non-operating income - Net:								
Capital gains and losses	-	-	-	Dr. 532	467	-	Dr. 65	21,583
Interest and discounts	57,085	-	-	-	700	95,079	152,864	429,914
Miscellaneous non-operating income ..	13,664	6,240	Dr. 57	Dr. 853	Dr. 80	Dr. 8,213	10,701	32,663
Income before interest expense	225,394	23,568	Dr. 42,370	Dr. 23,870	Dr. 64,367	Dr. 1,002,869	Dr. 884,514	Dr. 4,677,890
Interest expense	-	31,185	11,416	11,318	6,079	978,250	1,038,248	3,015,388
Income before income taxes	225,394	Dr. 7,617	Dr. 53,786	Dr. 35,188	Dr. 70,446	Dr. 1,981,119	Dr. 1,922,762	Dr. 7,693,278
Provision for income taxes	-	-	-	-	-	-	-	-
Net income after income taxes	225,394	Dr. 7,617	Dr. 53,786	Dr. 35,188	Dr. 70,446	Dr. 1,981,119	Dr. 1,922,762	Dr. 7,693,278

TABLE 4. Operating Statistics, Canadian Scheduled Carriers - All Services, by Company

March 1964

		Group I carriers			Group II carriers					Grand total
		Canadian Pacific Air Lines	Trans-Canada Air Lines	Total	Eastern Provincial Airways (1963)	Pacific Western Airlines(1)	Quebecair Inc.(1)	Transair Ltd.(1)	Total(1)	
Revenue transportation services:										
Unit toll:										
Departures	No.	1,811	10,446	12,257	1,399	1,266	911	993	4,569	16,826
Hours flown	"	3,449	13,427	16,876	1,201	1,322	646	961	4,130	21,006
Miles scheduled	"	1,213,283	3,868,500	5,081,783	52,796	164,426	71,876	91,453	380,551	5,462,334
Miles flown:										
Scheduled - Regular	"	1,178,195	3,707,347	4,885,542	48,096	162,666	61,595	90,432	362,789	5,248,331
Extra section	"	7,500	153,990	161,490	7,938	10,474	2,534	7,722	28,668	190,158
Non-scheduled	"	49,269	-	49,269	96,258	25,685	50,398	42,125	214,466	263,735
Totals	"	1,234,964	3,861,337	5,096,301	152,292	198,825	114,527	140,279	605,923	5,702,224
Ratio of regular miles flown to miles scheduled		97.1	95.8	96.1	91.1	98.9	85.7	98.9	95.3	96.1
Passengers carried	No.	41,046	307,186	348,232	7,455	13,469	7,425	4,748	33,097	381,329
Goods carried:										
Freight	lb.	685,782	5,147,592	5,833,374	622,951	416,698	146,888	146,910	1,333,447	7,166,821
Express	"	62,109	804,615	866,724	12,050	29,249	-	11,538	52,837	919,561
Excess baggage	"	52,129	..	52,129 (2)	17,623	16,458	24,533	8,139	66,753	118,882 (2)
Mail	"	225,145	3,076,594	3,301,739	248,179	163,124	32,882	86,601	530,786	3,832,525
Totals	"	1,025,165	9,028,801	10,053,966	900,803	625,529	204,303	253,188	1,983,823	12,037,789 (2)
Passenger-miles:										
Scheduled	No.	67,842,172	204,400,775	272,242,947	453,380	2,989,904	1,312,902	1,331,804	6,087,990	278,330,937
Non-scheduled	"	1,116,163	-	1,116,163	980,092	72,005	1,072,105	165,200	2,289,402	3,405,565
Totals	"	68,958,335	204,400,775	273,359,110	1,433,472	3,061,909	2,385,007	1,497,004	8,377,392	281,736,502
Available seat-miles on scheduled services	"	144,200,903	356,880,424	501,081,327	1,398,743	6,724,052	2,283,948	3,566,413	13,973,156	515,054,483
Passenger load factor on scheduled services		47.0	57.3	54.3	32.4	44.5	57.5	37.3	43.6	54.0
Goods ton-miles:										
Freight - Scheduled	No.	978,274	3,112,156	4,090,430	136,127	115,818	20,614	19,612	292,171	4,382,601
Non-scheduled	"	1,991	-	1,991	14,960	2,314	6,617	6,419	30,310	32,301
Totals	"	980,265	3,112,156	4,092,421	151,087	118,132	27,231	26,031	322,481	4,414,902
Express - Scheduled	"	15,590	297,384	312,974	384	7,326	-	2,772	10,482	323,456
Non-scheduled	"	581	-	581	1,952	-	-	92	2,044	2,625
Totals	"	16,171	297,384	313,555	2,336	7,326	-	2,864	12,526	326,081

See footnotes at end of table.

TABLE 4. Operating Statistics, Canadian Scheduled Carriers - All Services, by Company - Continued

March 1964

	Group I carriers			Group II carriers					Grand total
	Canadian Pacific Air Lines	Trans-Canada Air Lines	Total	Eastern Provincial Airways (1963)	Pacific Western Airlines(1)	Quebecair Inc.(1)	Transair Ltd.(1)	Total(1)	
Revenue transportation services - Concluded:									
Unit toll - Concluded:									
Goods ton-miles - Concluded:									
Excess baggage - Scheduled No.	62,564	163,450	226,014	1,787	2,251	2,261	1,346	7,645	233,659
Non-scheduled ... "	184	-	184	1,727	28	2,673	202	4,630	4,814
Totals "	62,748	163,450	226,198	3,514	2,279	4,934	1,548	12,275	238,473
Mail - Scheduled "	235,310	1,216,303	1,451,613	8,834	40,780	2,573	4,949	57,136	1,508,749
Non-scheduled "	3,801	-	3,801	20,204	238	1,981	6,339	28,762	32,563
Totals "	239,111	1,216,303	1,455,414	29,038	41,018	4,554	11,288	85,898	1,541,312
Total - Scheduled "	1,291,738	4,789,293	6,081,031	147,132	166,175	25,448	28,679	367,434	6,448,465
Non-scheduled "	6,557	-	6,557	38,843	2,580	11,271	13,052	65,746	72,303
Totals "	1,298,295	4,789,293	6,087,588	185,975	168,755	36,719	41,731	433,180	6,520,768
Available ton-miles on scheduled services "	19,059,418	50,192,331	69,251,749	384,076	970,669	228,282	440,905	2,023,932	71,275,681
Weight load factor on scheduled services(3) "	42.4	50.3	48.1	50.1	47.9	68.7	36.7	48.2	48.1
Bulk:									
Departures No.	37	58	95	429	1,137	-	212	1,778	1,873
Hours flown "	154	154	308	542	1,088	-	443	2,073	2,381
Miles flown "	52,607	61,767	114,374	48,616	131,279	-	74,709	254,604	368,978
Passengers carried "	1,105	2,193	3,298	2,360	2,661	-	593	5,614	8,912
Freight carried lb.	32,368	-	32,368	418,619	601,027	-	460,329	1,479,975	1,512,343
Passenger-miles(4) No.	4,497,883	4,875,447	9,373,330	183,254	2,005,827	-	657,629	2,846,710	12,220,040
Goods ton-miles(4) "	34,132	-	34,132	23,473	18,136	-	260,376	301,985	336,117
Revenue non-transportation services:									
Specialty flying - Hours flown "	-	14	14	253	-	-	-	253	267
Total - All services:									
Traffic, hours and miles:(5)									
Revenue:									
Departures "	1,848	10,504	12,352	1,828	2,403	911	1,205	6,347	18,699
Hours flown "	3,603	13,595	17,198	1,996	2,410	646	1,404	6,456	23,654
Miles flown "	1,287,571	3,923,104	5,210,675	200,908	330,104	114,527	214,988	860,527	6,071,202
Passengers carried "	42,151	309,379	351,530	9,815	16,130	7,425	5,341	38,711	390,241
Cargo carried lb.	780,259	5,952,207	6,732,466	1,053,620	1,046,974	146,888	618,777	2,866,259	9,598,725
Goods carried "	1,057,533	9,028,801	10,086,334	1,319,422	1,226,556	204,303	713,517	3,463,798	13,550,132
Passenger-miles(4) No.	73,456,218	209,276,222	282,732,440	1,616,726	5,067,736	2,385,007	2,154,633	11,224,102	293,956,542
Goods ton-miles(4) "	1,332,427	4,789,293	6,121,720	209,448	186,891	36,719	302,107	735,165	6,856,885

See footnotes at end of table.

TABLE 4. Operating Statistics, Canadian Scheduled Carriers - All Services, by Company - Concluded

March 1964

	Group I carriers			Group II carriers					Grand total
	Canadian Pacific Air Lines	Trans-Canada Air Lines	Total	Eastern Provincial Airways (1963)	Pacific Western Airlines(1)	Quebecair Inc.(1)	Transair Ltd.(1)	Total(1)	
Total - All services - Concluded:									
Traffic, hours and miles - Concluded:(5)									
Non-revenue:									
Hours flown	No. 126	474	600	78	136	14	35	263	863
Passengers carried	" 1,613	..	1,613 (2)	301	406	161	141	1,009	2,622 (2)
Goods carried	lb. 135,753	..	135,753 (2)	10,328	25,422	-	11,774	47,524	183,277 (2)
Passenger-miles	No. 3,289,413	11,220,786	14,510,199	97,795	135,467	43,373	74,046	350,681	14,860,880
Goods ton-miles	" 195,450	274,986	470,436	2,694	8,668	-	3,059	14,421	484,857
Fuel and oil consumed:									
Turbo fuel - Quantity	gal. 3,620,869	11,050,828	14,671,697	80,100	-	118,664	56,315	255,079	14,926,776
Cost	\$ 594,671	1,474,189	2,068,860	19,224	-	26,106	12,882	58,212	2,127,072
Gasoline - Quantity	gal. 387,148	-	387,148	108,374	247,105	7,741	136,784	500,004	887,152
Cost	\$ 107,768	-	107,768	38,836	93,632	2,632	51,418	186,518	294,286
Turbo oil - Quantity	gal. 457	2,597	3,054	40	-	60	4	104	3,158
Cost	\$ 3,785	27,549	31,244	600	-	810	44	1,454	32,698
Other oil - Quantity	gal. 4,727	-	4,727	1,662	2,845	383	3,111	8,001	12,728
Cost	\$ 4,039	-	4,039	2,078	3,556	459	3,111	9,204	13,243
Average number of employees:									
Pilots and co-pilots	No. 206	588	794	55	71	25	48	199	993
Other flight personnel	" 261	666	927	8	41	10	25	84	1,011
General management	" 125	64	189	38	45	48	21	152	341
Maintenance labour	" 563	2,523	3,086	152	184	68	105	509	3,595
Aircraft and traffic servicing	" 818	3,759	4,577	99	92	110	66	367	4,944
Other personnel	" 667	3,823	4,490	-	14	9	49	72	4,562
Total employees	" 2,640	11,423	14,063	352	447	270	314	1,383	15,446
Salaries and wages:									
Pilots and co-pilots	\$ 270,946	753,370	1,024,316	33,062	61,135	21,073	38,954	154,224	1,178,540
Other flight personnel	\$ 133,643	311,038	444,681	2,890	10,754	1,772	8,109	23,525	468,206
General management	\$ 104,420	108,354	212,774	20,452	20,383	21,458	13,774	76,067	288,841
Maintenance labour	\$ 263,044	1,353,687	1,616,731	82,789	83,994	33,196	34,641	234,620	1,851,351
Aircraft and traffic servicing	\$ 345,842	1,955,668	2,301,510	32,444	52,374	39,478	24,836	149,132	2,450,642
Other personnel	\$ 265,695	1,997,075	2,262,770	-	4,550	4,434	11,501	20,485	2,283,255
Total salaries and wages	\$ 1,383,590	6,479,192	7,862,782	171,637	233,190	121,411	131,815	658,053	8,520,835

(1) Routes included in scheduled or non-scheduled services according to predominant class of service.

(2) Excludes Trans-Canada Air Lines.

(3) Standard passenger weight used: 200 pounds.

(4) Excludes charter aircraft not having a maximum authorized take-off weight on wheels in excess of 18,000 pounds.

(5) These data exclude non-transportation services, except for hours flown.

TABLE 5. Revenue Interline Traffic(1), Canadian Scheduled Carriers - All Services, by Company

March 1964

	Canadian Pacific Air Lines	Eastern Provincial Airways (1963)	Pacific Western Airlines	Quebecair Inc.	Transair Ltd.	Trans- Canada Air Lines	Total
Passengers carried:							
Originated	No. 34,276	5,579	12,732	7,425	4,167	264,657	328,836
Domestic interline	" 2,724	1,489	-	-	-	42,529	50,501
Foreign interline	" 3,759	-	-	-	-	-	-
Totals(2)	" 40,759	7,068	12,732	7,425	4,167	307,186	379,337
Express carried:							
Originated	1b. 62,109	12,050	29,249	-	11,538	804,615	919,561
Domestic interline	" -	-	-	-	-	-	-
Foreign interline	" -	-	-	-	-	-	-
Totals(2)	" 62,109	12,050	29,249	-	11,538	804,615	919,561
Freight carried:							
Originated	" 536,876	622,951	375,964	146,888	74,060	5,147,592	6,904,331
Domestic interline	" 12,131	-	-	-	-	-	12,131
Foreign interline	" 64,359	-	-	-	-	-	64,359
Totals(2)	" 613,366	622,951	375,964	146,888	74,060	5,147,592	6,980,821
Excess baggage carried:							
Originated	" ..	17,623	15,941	24,533	5,549	..	63,646(3)
Domestic interline	" ..	-	-	-	-	..	-
Foreign interline	" ..	-	-	-	-	..	-
Totals(2)	" ..	17,623	15,941	24,533	5,549	..	63,646(3)
Mail carried:							
Originated	" 225,145	121,850	159,660	32,882	23,614	3,076,594	3,639,745
Domestic interline	" -	-	-	-	-	-	-
Foreign interline	" -	-	-	-	-	-	-
Totals(2)	" 225,145	121,850	159,660	32,882	23,614	3,076,594	3,639,745

(1) Includes only scheduled and non-scheduled services designated as mainline by the Air Transport Board.

(2) Excludes division interline.

(3) Excludes Trans-Canada Air Lines.

TABLE 6. Operating Statistics, Canadian International Carriers - All Revenue Services, by area of Service

March 1964

	Trans- Border Services	Trans- Atlantic and Polar Services	Southern Services	Pacific and Orient Services	Total International Services	Domestic Services	Grand total
Unit toll:							
Departures	No. 1,576	364	517	124	2,581	9,676	12,257
Hours flown	" 2,166	1,292	1,555	808	5,821	11,055	16,876
Miles scheduled	" 516,433	606,095	624,611	374,121	2,121,260	2,960,523	5,081,783
Miles flown:							
Scheduled - Regular	" 471,770	589,528	616,369	354,752	2,032,419	2,853,123	4,885,542
Extra sections	" 35,518	4,690	48,519	-	88,727	72,763	161,490
Non-scheduled	" -	-	-	-	-	49,269	49,269
Totals	" 507,288	594,218	664,888	354,752	2,121,146	2,975,155	5,096,301
Ratio of regular miles flown to miles scheduled	91.4	97.3	98.7	94.8	95.8	96.4	96.1
Passengers carried .....	...	...	...	...	128,243	219,989	348,232
Cargo carried	lb. ...	...	...	...	2,884,474	3,815,624	6,700,098
Mail carried .....	" ...	...	...	...	416,714	2,885,025	3,301,739
Passenger-miles	No. 27,575,126	35,939,701	49,264,549	21,169,073	133,948,449	139,410,661	273,359,110
Available seat-miles on scheduled services ..	" 43,275,831	78,910,676	84,674,129	44,997,191	251,857,827	249,223,500	501,081,327
Passenger load factor on scheduled services	63.7	45.5	58.2	47.0	53.2	55.9	54.6
Goods ton-miles:							
Express	No. 49,134	-	-	-	49,134	264,421	313,555
Freight	" 265,910	913,283	461,789	391,707	2,032,689	2,059,732	4,092,421
Excess baggage	" 16,898	31,589	53,241	20,470	122,198	104,000	226,198
Mail	" 38,798	184,620	62,548	126,241	412,207	1,043,207	1,455,414
Totals	" 370,740	1,129,492	577,578	538,418	2,616,228	3,471,360	6,087,588
Available ton-miles on scheduled service	" 5,255,264	11,063,566	11,541,057	5,838,738	33,698,625	35,553,124	69,251,749
Weight load factor on scheduled services(1)	59.5	42.8	47.7	45.5	47.5	49.0	48.3
Bulk:							
Departures	No. 28	72	16	11	127	...	...
Hours flown	" 52	266	82	36	436	...	...
Miles flown	" 9,948	94,549	24,281	11,537	145,315	...	...
Passengers carried	" 226	2,463	1,144	305	4,138	...	...
Goods carried	lb. 100	8,462	32,368	-	40,930	...	...
Passenger-miles(2)	No. ..	..	..	..	11,075,546	...	...
Goods ton-miles(2)	" -	656	34,132	-	34,788	...	...
Total:							
Departures	" 1,604	436	533	135	2,708	...	...
Hours flown	" 2,218	1,558	1,637	844	6,257	...	...
Miles flown	" 517,236	688,767	689,169	366,289	2,266,461	...	...
Passengers carried .....	" ..	..	..	..	..	...	...
Goods carried	lb. ..	..	..	..	..	...	...
Passenger-miles(2)	No. ..	..	..	..	..	...	...
Goods ton-miles(2)	" 370,840	1,130,148	611,710	538,418	2,651,016	...	...

(1) Standard passenger weight used: 200 pounds.

(2) Excludes charter aircraft not having a maximum authorized take-off weight on wheels in excess of 18,000 pounds.

TABLE 7. Revenue Traffic Leaving and Entering Canada, Canadian and Foreign Carriers, by Area of Service(1)

March 1964

	United States			Europe		
	To	From	Total	To	From	Total
Passengers carried:						
Unit toll No.	74,321	75,436	149,757	8,339	11,549	19,888
Bulk "	156	30	186	1,188	1,305	2,493
Totals "	74,477	75,466	149,943	9,527	12,854	22,381
Freight, express and excess baggage carried:						
Unit toll lb.	523,165	2,173,851	2,697,016	542,778	1,412,130	1,954,908
Bulk "	-	-	-	-	-	-
Totals "	523,165	2,173,851	2,697,016	542,778	1,412,130	1,954,908
Mail carried (unit toll) "	138,677	247,659	386,336	134,349	150,284	284,633
	All other areas			Totals		
	To	From	Total	To	From	Total
Passengers carried:						
Unit toll No.	10,482	13,288	23,770	93,142	100,273	193,415
Bulk "	339	461	800	1,683	1,796	3,479
Totals "	10,821	13,749	24,570	94,825	102,069	196,894
Freight, express and excess baggage carried:						
Unit toll lb.	243,962	125,805	369,767	1,309,905	3,711,786	5,021,691
Bulk "	32,368	-	32,368	32,368	-	32,368
Totals "	276,330	125,805	402,135	1,342,273	3,711,786	5,054,059
Mail carried (unit toll) "	21,305	25,759	47,064	294,331	423,702	718,033
	Total by Canadian carriers			Total by Foreign carriers		
	Leaving Canada	Entering Canada	Total	Leaving Canada	Entering Canada	Total
Passengers carried:						
Unit toll No.	59,926	64,510	124,436	33,216	35,763	68,979
Bulk "	1,508	1,357	2,865	175	439	614
Totals "	61,434	65,867	127,301	33,391	36,202	69,593
Freight, express and excess baggage carried:						
Unit toll lb.	829,487	1,890,079	2,719,566	480,418	1,821,707	2,302,125
Bulk "	32,368	-	32,368	-	-	-
Totals "	861,855	1,890,079	2,751,934	480,418	1,821,707	2,302,125
Mail carried (unit toll) "	190,588	190,322	380,910	103,743	233,380	337,123

(1) Passengers and goods in transit through Canada are excluded.

TABLE 8. Specialty Flying Services, Canadian Carriers - Groups I to IV, by Type of Service

March 1964

	Fixed wing aircraft				Helicopters			
	Month		Year to date		Month		Year to date	
	Revenue hours	Revenue earned	Revenue hours	Revenue earned	Revenue hours	Revenue earned	Revenue hours	Revenue earned
Type of service:	No.	\$	No.	\$	No.	\$	No.	\$
Aerial advertising	-	-	-	-	16	1,495	103	10,130
Aerial fish cultivation	-	-	-	-	-	-	-	-
Aerial patrol and inspection	764	105,261	1,800	215,871	200	31,571	679	88,783
Aerial pest control	-	-	2	225	-	-	-	-
Aerial photography and survey	171	16,408	471	47,191	-	-	86	2,195
Aerial photography (excl. survey) ..	13	278	77	1,524	-	-	44	3,917
Aircraft rental	96	6,680	157	7,695	-	-	3	250
Flying training	2,436	41,318	6,428	111,584	71	7,873	156	13,207
Geophysical survey	737	77,678	1,532	197,502	-	-	20	3,917
Non-transportation charter	416	11,718	417	11,869	-	-	2	509
Philanthropic	-	-	-	-	-	-	-	-
Recreational flying	766	15,672	2,161	41,303	3	232	29	4,167
Specialty flying - Other	-	-	-	-	5	545	9	1,076
Totals	5,399	275,013	13,045	634,764	295	41,716	1,131	128,151

TABLE 9. Helicopter Operating Statistics - Canadian Carriers - Groups I to IV

March 1964

	Carriers operating helicopters only		Carriers operating both helicopters and fixed wing aircraft		Total	
	Month	Year to date	Month	Year to date	Month	Year to date
Carriers reporting	No.	12	...	7	...	19
Helicopters - Owned	"	96	106	9	12	105
Leased	"	4	7	-	1	4
Totals	"	100	113	9	13	109
Revenue hours flown - Unit toll	"	3	10	-	3	10
Bulk	"	2,068	3,398	92	398	2,160
Specialty	"	196	788	99	211	295
Totals	"	2,267	4,196	191	609	2,458
Non-revenue hours flown	"	216	343	23	55	239
Fuel and oil consumed:						
Gasoline	gal.	51,445	88,014	3,267	12,378	54,712
Cost	\$	21,478	36,921	1,270	5,338	22,748
Oil	gal.	963	1,604	71	290	1,034
Cost	\$	1,484	2,358	99	363	1,583
Average number of employees:						
Pilots	No.	90	96	11	13	101
Administrative	"	42	46	1	2	43
Maintenance labour	"	96	100	8	9	104
Other personnel	"	4	8	-	-	4
Totals	"	232	250	20	24	252
Salaries and wages:						
Pilots	\$	53,134	172,612	7,805	26,646	60,939
Administrative	\$	22,862	74,925	900	3,870	23,762
Maintenance labour	\$	43,418	139,682	4,351	14,342	47,769
Other personnel	\$	1,128	8,625	-	-	1,128
Totals	\$	120,542	395,844	13,056	44,858	133,598

TABLE 10. Revenues, Expenses and Income, Canadian Carriers Operating Helicopters Only - Groups I to IV
March 1964

	Current month	Year to date
	dollars	
Operating revenues:		
Unit toll transportation:		
Passengers	31	55
Express	-	-
Freight	-	-
Excess baggage	-	-
Mail	-	-
Total unit toll transportation	31	55
Bulk transportation	220,141	426,415
Total transportation	220,172	426,470
Other flying services	20,147	79,535
Total flying services	240,319	506,005
Non-flying services	28,246	48,740
Total operating revenues	268,565	554,745
Operating expenses:		
Flying operations	154,173	379,859
Maintenance	114,013	269,717
General service and administration	50,474	172,300
Depreciation and amortization	28,357	100,174
Total operating expenses	347,017	922,050
Operating income (deficit)	Dr. 78,452	Dr. 367,305
Non-operating income:		
Capital gains and losses	Dr. 2,313	8,188
Interest and discounts	2,663	3,420
Miscellaneous non-operating income	12,538	45,368
Income before interest expense	Dr. 65,564	Dr. 310,329
Interest expense	6,246	17,542
Income before income taxes	Dr. 71,810	Dr. 327,871
Provision for income taxes	-	-
Net income after income taxes	Dr. 71,810	Dr. 327,871

TABLE 11. Operating Statistics, Canadian Group V Carriers
March 1964

	Quarter	Year to date
Reporting carriers	No. 284	
Transportation:		
Hours flown	" 14,576	
Passengers carried	" 25,468	
Goods carried	lb. 1,871,221	
Specialty flying services:		
Aerial advertising	hr. -	
Aerial fish cultivation	" -	
Aerial patrol and inspection	" 996	
Aerial pest control	" 6	
Aerial photography and survey	" 123	
Aerial photography (excl. survey)	" 54	
Aircraft rental	" 2,607	
Flying training	" 16,410	
Geophysical survey	" 5	
Non-transportation charter	" 4	
Philanthropic	" -	
Recreational flying	" 1,992	
Specialty flying - Other	" 147	
Totals	" 22,344	
Total - All services:		
Revenue hours flown	No. 36,920	
Non-revenue hours flown	" 2,332	

CIVIL AVIATION DEFINITIONS(1)

Bulk Transportation:

- (1) Public transportation of passengers or goods from a designated base at a toll per mile or per hour for the charter of the entire aircraft (Class 4); and
- (2) Transportation of passengers and goods in accordance with one or more specific contracts (Class 5).

Classification of Canadian
Carriers by Groups

- Group I Carriers: Canadian Air Carriers licensed to perform both domestic and international scheduled services. (Trans-Canada Air Lines and Canadian Pacific Air Lines Ltd.).
- Group II Carriers: Canadian Air Carriers other than Group I carriers licensed to perform domestic scheduled services and Nordair Ltd.(2).
- Group III Carriers: Canadian Air Carriers licensed to perform non-scheduled services with gross annual flying revenues of \$500,000 or over (excepting air carriers included in Group I and II).
- Group IV Carriers: Canadian Air Carriers licensed to perform non-scheduled services with gross annual flying revenues of \$100,000 and over, but less than \$500,000.
- Group V Carriers: Canadian Air Carriers licensed to perform non-scheduled services with gross annual flying revenues of less than \$100,000.

Cargo:

Air freight and air express (excluding mail and excess baggage).

Carrier, Air:

Any person who operates aircraft in or over Canada for hire or reward.

Non-Scheduled Carriers: Carriers not operating any scheduled (Class I) service.

Scheduled Carriers: Air Carriers serving designated points in accordance with a service schedule and at a toll per unit.

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- (1) Reference to Classes refers to the classification of air carriers as defined by the Air Transport Board and published in the "Directory of Canadian Commercial Air Services" Queen's Printer, Ottawa.
 - (2) For statistical purposes in this report, Nordair Ltd. is included with Group III carriers.

Freedoms of the Air:

- First Freedom: The privilege to fly over the territory of a foreign country without landing.
- Second Freedom: The privilege to land on the territory of a foreign country for non-traffic purposes.
- Third Freedom: The privilege to put down in a foreign country, passengers, mail and cargo taken on in the territory of the state whose nationality the aircraft possesses.
- Fourth Freedom: The privilege to take on in a foreign country, passengers, mail and cargo destined for the territory of the state whose nationality the aircraft possesses.
- Fifth Freedom: The privilege to take on in a foreign country, passengers, mail and cargo destined for the territory of any other foreign state and the privilege to put down in a foreign country, passengers, mail and cargo coming from any such territory.

Goods: Air Cargo (freight and express) plus mail and excess baggage.

Interline Traffic:

- Domestic Interline: Passengers and goods received by a carrier at Canadian points from other Canadian Air Carriers.
- Foreign Interline: Passengers and goods received by a carrier from Foreign Air Carriers.
- Divisional Interline: Passengers and goods received from other operating divisions of the same carrier.

International Services:

- Trans-Border Services: Services between Canada and the United States.
- Southern Services: Services between Canada and Bermuda, the Caribbean, Mexico, Central or South America.
- Trans-Atlantic and Polar Services: Services between Canada and Europe.
- Pacific and Orient Services: Services between Canada and points in the Pacific Ocean or the Orient.

Load Capacity Available: Load capacity available for the transportation of goods and passengers after deduction of the operating load of gas and oil, crew, stewards' supplies, etc.

<u>Load Factor, Passenger:</u>	Ratio of revenue passenger-miles performed to available seat-miles.
<u>Load Factor, Weight:</u>	- See Weight, Load-Factor.
<u>Miles:</u>	Statute miles of 5,280 ft.
<u>Passenger:</u>	A person occupying a separate seat on a one-way trip. For statistical purposes an infant-in-arms is not considered a passenger. A round trip passenger is counted as two passengers.
Passenger Load-Factor:	- See Load Factor, Passenger.
Passenger-Mile:	The transportation of one passenger one mile.
Non-Revenue Passenger:	A child or adult carried on a revenue transportation flight for whom no fare is collected, including company personnel.
Revenue Passenger:	A child or adult for which a fare or part of a fare is paid.
<u>Seat-Miles Available:</u>	Seats available for the transportation of passengers multiplied by the miles flown on each inter-station flight.
<u>Specialty Flying Services:</u>	Non-transportation flying services, such as flying training, aerial photography, aerial pest control and aerial advertising.
<u>Tons:</u>	Short tons of 2,000 lbs.
<u>Ton-Mile:</u>	The transportation of one ton of goods one mile.
<u>Ton-Miles Available:</u>	Available load capacity multiplied by miles flown on each inter-station flight.
<u>Unit Toll Transportation:</u>	Public transportation of passengers and goods at a toll per unit. It includes: <ul style="list-style-type: none">(i) the scheduled services, which provide public transportation between designated points in accordance with a schedule (Class I); and(ii) the non-scheduled services, which provide public transportation either between designated points on a route pattern and with some degree of regularity (Class 2) or from a designated base to serve a defined area or a specific point or points (Class 3).
<u>Weight Load Factor:</u>	Ratio of revenue ton-miles performed to available ton-miles.

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