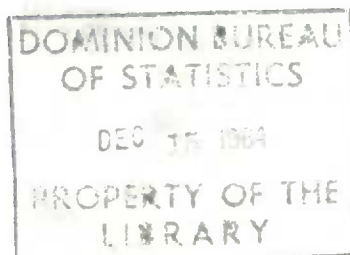


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JULY 1964

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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.

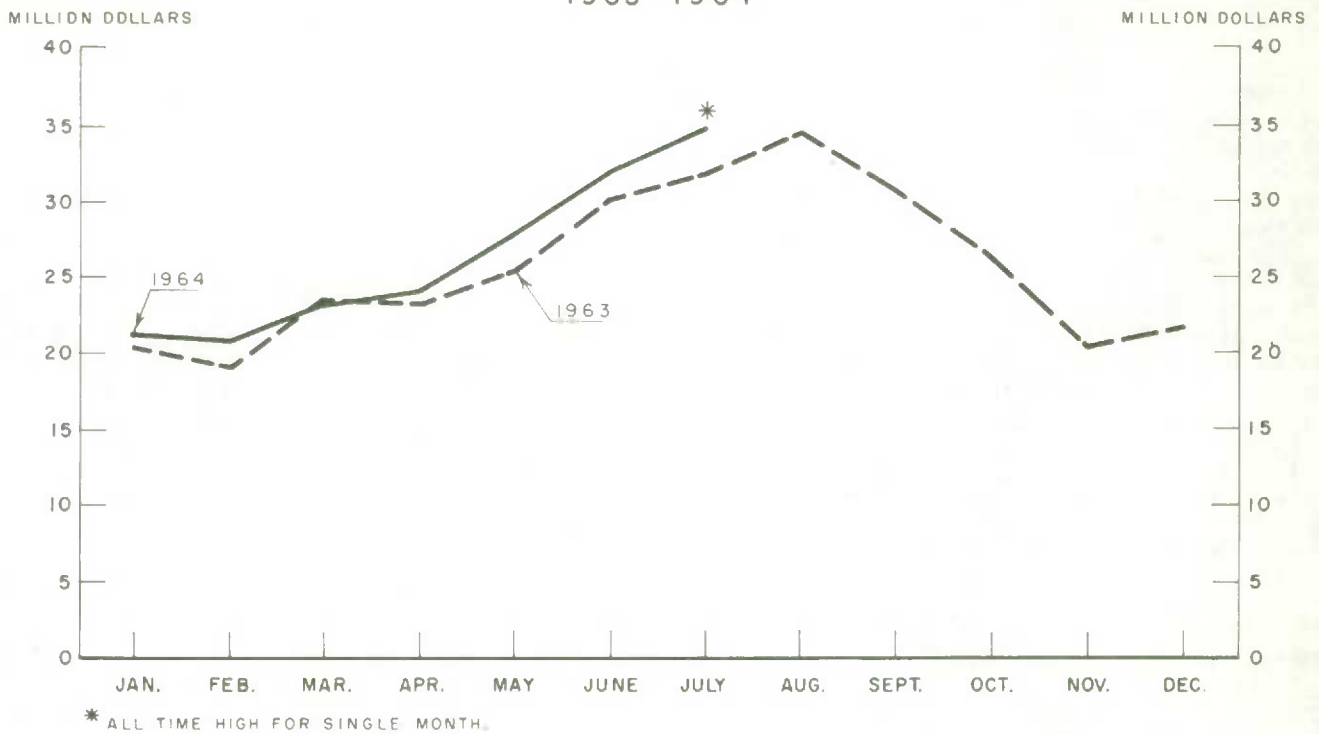
Domestic and international operations of Canadian carriers are combined in all tables except Table 6 which provides a breakdown of domestic and international operations for Canadian carriers operating international unit toll and bulk services.

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 JULY OPERATIONS

Increases were reported in the transportation of both revenue passengers and goods by Canadian Air Carriers during the month of July compared with July 1963. Although passengers carried totalled 563,518, an increase of 8.2 per cent, goods transported showed an increase of 14.8 per cent to 13,905 tons. The revenue miles flown were up 2.9 per cent to 11,108,532. Passenger-miles and goods-ton-miles performed by Canadian carriers in unit toll and bulk services totalled 471,974,478 and 9,804,177 respectively. Unit toll services accounted for 84.4 per cent of the total passenger-miles and 75.2 per cent of the total goods-ton-miles.

July operating revenues showed a 9.3 per cent increase over July 1963 to \$34,875,850 while operating expenses increased 7.3 per cent to \$28,454,209, thus an operating income of \$6,421,641 was reported. This compared with an income of \$5,380,906 for the same month of the previous year. A net income after provision for income taxes of \$5,724,174 was reported as against a net income of \$4,472,174 in July 1963.

Revenue hours reported flown by 14 carriers who operated 142 helicopters exclusively amounted to 11,467. Hours reported flown by 12 helicopters operated by 7 fixed wing carriers totalled 811. Operating revenues reported by helicopter carriers amounted to \$1,245,802 while operating expenses amounted to \$583,366.

In July the six scheduled carriers transported 495,566 revenue passengers, 87.9 per cent of passengers carried by all Canadian carriers. They also carried 7,240 tons of revenue goods, 52.1 per cent of the total. Operating revenues amounted to \$30,058,029 or 86.2 per cent of all Canadian air carrier revenues. Operating expenses amounted to \$25,303,001 or 88.9 per cent of the total. Comparable figures for July 1963 are: passengers 85.8 per cent, goods 51.0 per cent, revenues 85.3 per cent and expenses 87.7 per cent.

Revenue passenger-miles performed by Canadian carriers in international unit toll service in July amounted to 171,629,883 or 44.9 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	23.5
Trans-Atlantic and Polar	53.2
Southern	13.8
Pacific and Orient	<u>9.5</u>
Total	<u>100.0</u>

The Cumulative View:

The first seven months of 1964 compared with the same period of 1963 showed the revenue passengers were up 4.8 per cent to 3,223,727, while revenue goods rose 4.2 per cent to 72,168 tons. Passenger-miles and goods-ton-miles performed by Canadian carriers totalled 2,428,919,140 and 58,793,022 respectively. Operating revenues increased 5.6 per cent to \$184,005,698 while operating expenses rose 5.8 per cent to \$176,388,022.

Foreign Carriers:

Foreign carriers licensed to operate in Canada transported 96,144 revenue passengers during July, an increase of 8.6 per cent over July 1963. Revenue goods carried totalled 1,100 tons, an increase of 18.1 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

July 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	15	48	63	69	10	9	88	..
Revenue transportation services:									
Unit toll:									
Departures No.	19,429	2,912	740	3,652	23,081	..	..	..	..
Hours flown "	25,346	3,047	522	3,569	28,915	345	1,161	30,421	181,164
Miles scheduled "	6,476,209	...	...	...	6,476,209	82,850	464,150	7,023,209	42,460,714
Miles flown:									
Scheduled "	6,515,013	...	...	...	6,515,013	82,158	472,534	7,069,705	42,891,271(4)
Non-scheduled "	300,221	385,706	60,648	446,354	746,575	-	-	746,575	4,076,533(4)
Totals "	6,815,234	385,706	60,648	446,354	7,261,588	82,158	472,534	7,816,280	46,967,804
Passengers carried "	464,555	12,446	2,730	15,176	479,731	59,121	29,504	568,356	3,438,007
Goods carried:									
Cargo lb.	8,651,234	761,919	283,406	1,045,325	9,696,559	670,188	1,212,470	11,722,594	77,724,450
Excess baggage "	131,555(5)	7,045	4,777	11,822	143,377				
Mail "	3,585,435	103,758	18,824	122,582	3,708,017	123,748	146,526	3,978,291	28,758,252
Totals "	12,368,224	872,722	307,007	1,179,729	13,547,953	793,936	1,358,996	15,700,885	106,482,702
Passenger-miles No.	395,747,227	2,540,605	155,500	2,696,105	398,443,332	2,600,434	25,311,405	426,355,171	2,335,701,399
Goods ton-miles:									
Cargo "	4,682,595	452,346	502,056	954,402	5,636,997	17,454	427,332	6,328,925	39,746,816
Excess baggage "	242,895	4,071	176	4,247	247,142				
Mail "	1,455,530	32,110	968	33,078	1,488,608	2,736	60,049	1,551,393	11,096,642
Totals "	6,381,020	488,527	503,200	991,727	7,372,747	20,190	487,381	7,880,318	50,843,458
Bulk:									
Departures "	5,594	10,750	19,241	29,991	35,585	..	..	..	..
Hours flown "	7,243	15,861	16,926	32,787	40,030	7	219	40,256	139,135
Miles flown "	1,367,624	1,120,484	1,358,836	2,479,320	3,846,944	1,896	73,049	3,921,889	14,912,419
Passengers carried "	31,011	22,189	30,587	52,776	83,787	1,015	6,504	91,306	337,397
Freight carried lb.	2,111,357	8,545,411	3,606,272	12,151,683	14,263,040	-	46,574	14,309,614	54,847,471
Passenger-miles(6) No.	68,624,426	4,688,754	217,966	4,906,720	73,531,146	..	..	..	..
Goods ton-miles(6) "	588,192	829,771	1,013,467	1,843,238	2,431,430	-	26,742	2,458,172	..
Revenue non-transportation services:									
Specialty flying - Hours flown "	149	2,838	8,914	11,752	11,901	-	-	11,901	52,082

See footnotes at end of table.

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

July 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.	25,023	13,662	19,981	33,643	58,666	..	..	..
Hours flown	"	32,738	21,746	26,362	48,108	80,846	352	1,380	82,578
Miles flown	"	8,182,858	1,506,190	1,419,484	2,925,674	11,108,532	84,054	545,583	11,738,169
Passengers carried	"	495,566	34,635	33,317	67,952	563,518	60,136	36,008	659,662
Cargo carried	lb.	10,762,591	9,307,330	3,889,678	13,197,008	23,959,599	670,188(8)	1,259,044(8)	25,888,831
Goods carried	"	14,479,581	9,418,133	3,913,279	13,331,412	27,810,993	793,936	1,405,570	30,010,499
Passenger-miles(6)	No.	464,371,653	7,229,359	373,466	7,602,825	471,974,478	..	..	..
Goods ton-miles(6)	"	6,969,212	1,318,298	1,516,667	2,834,965	9,804,177	20,190	514,123	10,338,490
Non-revenue:									
Hours flown	"	627	507	553	1,060	1,687	1	-	1,688
Passengers carried	"	3,063(5)	163	10	173	3,236	1,108	582	4,926
Goods carried	lb.	231,597(5)	73,205	-	73,205	304,802	19,569	93,108	417,379
Passenger-miles	No.	3,804,815	222,598	868	223,466	4,028,281	45,312	423,732	4,497,325
Goods ton-miles	"	658,396	47,998	-	47,998	706,394	414	26,742	733,550
Fuel and oil consumed:									
Turbo oil - Quantity	gal.	19,210,130	-	14,042	14,042	19,224,172	108,241	2,798,436	22,130,849
Cost	\$	2,701,080	-	4,278	4,278	2,705,358	17,424	427,809	3,150,591
Gasoline - Quantity	gal.	1,333,946	857,051	412,796	1,269,847	2,603,793	36,971	148,468	2,789,232
Cost	\$	466,755	340,186	185,228	525,414	992,169	9,065	26,363	1,027,597
Turbo oil - Quantity	gal.	3,962	-	3	3	3,965	35	51	4,051
Cost	\$	39,120	-	46	46	39,166	193	507	39,866
Other oil - Quantity	gal.	15,697	10,656	6,308	16,964	32,661	176	339	33,176
Cost	\$	18,364	15,119	8,583	23,702	42,066	200	319	42,585
Average number of employees:									
Pilots and co-pilots	No.	1,038	336	326	662	1,700	..	..	..
Other flight personnel	"	1,171	27	18	45	1,216	..	..	..
General management	"	316	89	82	171	487	..	..	..
Maintenance labour	"	3,708	371	256	627	4,335	..	..	..
Aircraft & traffic servicing	"	5,213	114	54	168	5,381	..	..	..
Other personnel	"	4,656	202	119	321	4,977	..	..	..
Totals	"	16,102	1,139	855	1,994	18,096	242	729	19,067
Salaries and wages paid:									
Pilots and co-pilots	\$	1,272,423	301,316	246,468	547,784	1,820,207	..	..	..
Other flight personnel	\$	551,350	19,977	5,397	25,374	576,724	..	..	..
General management	\$	274,398	60,119	68,973	129,092	403,490	..	..	..
Maintenance labour	\$	1,907,127	180,200	104,667	284,867	2,191,994	..	..	..
Aircraft & traffic servicing	\$	2,487,041	45,065	19,618	64,683	2,551,724	..	..	..
Other personnel	\$	2,334,103	69,785	40,130	109,915	2,444,018	..	..	..
Totals	\$	8,826,442	676,462	485,253	1,161,715	9,988,157	133,228	354,349	10,475,734
69,111,494									

(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

July 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	22,403,073	1,191,013	23,594,086	334,765	32,030	366,795	23,960,881	134,185,502
Express	1,205,269	26,714	1,231,983	9,425	744	10,169	1,242,152	3,307,880
Freight	1,067,826	208,359	1,276,185	126,072	19,682	145,754	1,421,939	9,558,700
Excess baggage	120,707	23,031	143,738	6,433	339	6,772	150,510	936,592
Mail	349,502	106,838	456,340	42,859	4,132	46,991	503,331	8,776,512
Total unit toll transportation ..	25,146,377	1,555,955	26,702,332	519,554	56,927	576,481	27,278,813	156,765,186
Bulk transportation	2,175,095	1,035,517	3,210,612	1,886,360	1,301,467	3,187,827	6,398,439	21,649,678
Total transportation	27,321,472	2,591,472	29,912,944	2,405,914	1,358,394	3,764,308	33,677,252	178,414,864
Other flying services	5,457	24,300	29,757	363,467	560,468	923,935	953,692	3,343,806
Total flying services	27,326,929	2,615,772	29,942,701	2,769,381	1,918,862	4,688,243	34,630,944	181,758,670
Non-flying services	92,093	23,235	115,328	38,513	91,065	129,578	244,906	2,247,028
Total operating revenues	27,419,022	2,639,007	30,058,029	2,807,894	2,009,927	4,817,821	34,875,850	184,005,698
Operating expenses:								
Flying operations	5,886,037	905,892	6,791,929	911,974	632,762	1,544,736	8,336,665	47,851,412
Maintenance	4,458,274	637,889	5,096,163	519,478	298,962	818,440	5,914,603	38,875,434
General services and administration:								
Passenger service	1,928,968	93,271	2,022,239	..	..	..	..	..
Aircraft and traffic servicing	3,257,689	323,893	3,581,582	..	..	..	..	..
Promotion and sales	4,102,633	139,618	4,242,251	..	..	..	..	..
General administration	930,458	113,963	1,044,421	..	..	..	..	..
Totals	10,219,748	670,745	10,890,493	302,388	211,269	513,657	11,404,150	70,736,844
Depreciation and amortization	2,390,319	134,097	2,524,416	152,113	122,262	274,375	2,798,791	18,924,332
Total operating expenses	22,954,378	2,348,623	25,303,001	1,885,953	1,265,255	3,151,208	28,454,209	176,388,022
Operating income (loss)	4,464,644	290,384	4,755,028	921,941	744,672	1,666,613	6,421,641	7,617,676
Non-operating income - Net:								
Capital gains and losses	186,172	2,892	189,064	93,950	6,012	99,962	289,026	728,683
Interest and discounts	205,392	28	205,420	2,485	586	3,071	208,491	1,105,305
Miscellaneous non-operating income ..	3,053	2,976	6,029	Dr. 19,453	Dr. 1,015	Dr. 20,468	Dr. 14,439	Dr. 9,325
Income before interest expense	4,859,261	296,280	5,155,541	998,923	750,255	1,749,178	6,904,719	9,442,339
Interest expense	977,503	61,448	1,038,951	38,641	20,218	58,859	1,097,810	7,449,533
Income before income taxes	3,881,758	234,832	4,116,590	960,282	730,037	1,690,319	5,806,909	1,992,806
Provision for income taxes	-	-	-	30,240	52,495	82,735	82,735	159,074
Net income after income taxes	3,881,758	234,832	4,116,590	930,042	677,542	1,607,584	5,724,174	1,823,732

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

Note: Data in Tables 3, 8 and 10 included in this table.

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

July 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	4,544,261	246,667	474,820	289,617	179,909	17,858,812	23,594,086	132,516,198
Express	243,574	1,777	14,614	6,838	3,485	961,695	1,231,983	3,237,120
Freight	300,274	74,400	72,553	36,690	24,716	767,552	1,276,185	8,883,395
Excess baggage	28,537	4,368	9,978	6,842	1,843	92,170	143,738	903,169
Mail	19,738	30,467	49,377	-	26,994	329,764	456,340	8,406,647
Total unit toll transportation ..	5,136,384	357,679	621,342	339,987	236,947	20,009,993	26,702,332	153,946,529
Bulk transportation	821,995	234,667	454,035	-	346,815	1,353,100	3,210,612	10,429,058
Total transportation	5,958,379	592,346	1,075,377	339,987	583,762	21,363,093	29,912,944	164,375,587
Other flying services	-	24,039	-	-	261	5,457	29,757	226,089
Total flying services	5,958,379	616,385	1,075,377	339,987	584,023	21,368,550	29,942,701	164,601,676
Non-flying services	79,534	11,533	290	4,191	7,221	12,559	115,328	1,311,180
Total operating revenues	6,037,913	627,918	1,075,667	344,178	591,244	21,381,109	30,058,029	165,912,856
Operating expenses:								
Flying operations	1,770,418	210,444	403,470	90,853	201,125	4,115,619	6,791,929	40,963,018
Maintenance	731,848	202,402	185,288	87,843	162,356	3,726,426	5,096,163	34,205,241
General services and administrations:								
Passenger service	418,175	19,037	46,667	10,601	16,966	1,510,793	2,022,239	12,010,123
Aircraft and traffic servicing	596,728	80,956	197,536	29,261	16,140	2,660,961	3,581,582	23,458,839
Promotion and sales	1,023,625	14,828	33,298	53,776	37,716	3,079,008	4,242,251	25,369,738
General administration	166,955	23,606	46,375	26,154	17,828	763,503	1,044,421	7,022,609
Totals	2,205,483	138,427	323,876	119,792	88,650	8,014,265	10,890,493	67,861,309
Depreciation and amortization	220,253	53,872	27,791	32,248	20,186	2,170,066	2,524,416	17,378,838
Total operating expenses	4,928,002	605,145	940,425	330,736	472,317	18,026,376	25,303,001	160,408,406
Operating income (loss)	1,109,911	22,773	135,242	13,442	118,927	3,354,733	4,755,028	5,504,450
Non-operating income - Net:								
Capital gains and losses	186,172	-	2,892	-	-	-	189,064	474,960
Interest and discounts	80,461	13	-	-	15	124,931	205,420	1,076,660
Miscellaneous non-operating income ..	Dr. 1,349	450	3,719	Dr. 843	Dr. 350	4,402	6,029	49,726
Income before interest expense	1,375,195	23,236	141,853	12,599	118,592	3,484,066	5,155,541	7,105,796
Interest expense	-	32,991	9,271	13,328	5,858	977,503	1,038,951	7,110,651
Income before income taxes	1,375,195	Dr. 9,755	132,582	Dr. 729	112,734	2,506,563	4,116,590	Dr. 4,855
Provision for income taxes	-	-	-	-	-	-	-	-
Net income after income taxes	1,375,195	Dr. 9,755	132,582	Dr. 729	112,734	2,506,563	4,116,590	Dr. 4,855

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

July 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.	1,929	12,242	14,171	1,169	1,641	1,287	1,161	5,258	19,429
Hours flown	"	3,341	16,745	20,086	1,175	1,671	1,120	1,294	5,260	25,346
Miles scheduled	"	1,153,670	4,676,622	5,830,292	132,932	214,089	118,826	97,064	562,911	6,393,203
Miles flown:										
Scheduled - Regular	"	1,101,457	4,629,382	5,730,839	122,375	212,109	110,501	96,334	541,319	6,272,158
Extra section	"	20,879	194,585	215,464	12,734	5,198	1,505	7,954	27,391	242,855
Non-scheduled	"	44,640	-	44,640	60,240	39,039	81,960	74,342	255,581	300,221
Totals	"	1,166,976	4,823,967	5,990,943	195,349	256,346	193,966	178,630	824,291	6,815,234
Ratio of regular miles flown to miles scheduled		95.5	99.0	98.3	92.1	99.1	93.0	99.2	96.2	98.1
Passengers carried	No.	48,100	371,569	419,669	10,573	18,415	9,954	5,944	44,886	464,555
Goods carried:										
Freight	lb.	605,386	5,414,719	6,020,105	813,942	342,827	175,484	160,712	1,492,965	7,513,070
Express	"	82,419	984,345	1,066,764	13,494	45,142	-	12,764	71,400	1,138,164
Excess baggage	"	43,157	-	43,157	18,852	26,407	33,231	9,908	88,398	131,555
Mail	"	220,755	2,944,721	3,165,476	124,022	162,178	34,452	99,307	419,959	3,585,435
Totals	"	951,717	9,343,785	10,295,502	970,310	576,554	243,167	282,691	2,072,722	12,368,224
Passenger-miles:										
Scheduled	No.	79,058,725	301,374,499	380,433,224	2,094,238	4,792,794	2,004,138	1,584,851	10,476,021	390,909,245
Non-scheduled	"	1,566,013	-	1,566,013	1,460,707	144,593	1,288,512	378,157	3,271,969	4,837,982
Totals	"	80,624,738	301,374,499	381,999,237	3,554,945	4,937,387	3,292,650	1,963,008	13,747,990	395,747,227
Available seat-miles on scheduled services	"	134,698,149	458,474,809	593,172,958	3,866,786	9,439,989	3,727,272	3,458,987	20,493,034	613,665,992
Passenger load factor on scheduled services		58.7	65.7	64.1	54.2	50.8	53.8	45.8	51.1	63.7
Goods ton-miles:										
Freight - Scheduled	No.	822,075	3,026,342	3,848,417	197,886	164,083	19,384	11,580	392,933	4,241,350
Non-scheduled	"	2,027	-	2,027	8,763	3,146	12,428	18,619	42,956	44,983
Totals	"	824,102	3,026,342	3,850,444	206,649	167,229	31,812	30,199	435,889	4,286,333
Express - Scheduled	"	22,795	356,818	379,613	874	10,448	-	2,684	14,006	393,619
Non-scheduled	"	883	-	883	1,364	-	-	396	1,760	2,643
Totals	"	23,678	356,818	380,496	2,238	10,448	-	3,080	15,766	396,262

See footnotes at end of table.

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

July 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.	47,752	177,366	225,118	1,287	4,832	3,349	1,522	10,990	236,108
Non-scheduled ... "	130	-	130	3,459	63	2,693	442	6,657	6,787
Totals "	47,882	177,366	225,248	4,746	4,895	6,042	1,964	17,647	242,895
Mail - Scheduled "	197,280	1,171,350	1,368,630	11,937	41,755	3,145	5,214	62,051	1,430,681
Non-scheduled "	4,276	-	4,276	10,658	451	1,932	7,532	20,573	24,849
Totals "	201,556	1,171,350	1,372,906	22,595	42,206	5,077	12,746	82,624	1,455,530
Total - Scheduled "	1,089,902	4,731,876	5,821,778	211,984	221,118	25,878	21,000	479,980	6,301,758
Non-scheduled "	7,316	-	7,316	24,244	3,660	17,053	26,989	71,946	79,262
Totals "	1,097,218	4,731,876	5,829,094	236,228	224,778	42,931	47,989	551,926	6,381,020
Available ton-miles on scheduled services "	17,306,392	63,212,362	80,518,754	765,213	950,344	368,276	395,586	2,479,419	82,998,173
Weight load factor on scheduled services(3)	52.0	55.2	54.5	55.1	73.7	61.4	45.4	61.6	54.7
Bulk:									
Departures No.	87	204	291	1,588	3,021	-	694	5,303	5,594
Hours flown "	483	805	1,288	1,995	2,796	-	1,164	5,955	7,243
Miles flown "	231,363	373,471	604,834	213,757	354,011	-	195,022	762,790	1,367,624
Passengers carried "	5,960	11,662	17,622	3,785	7,306	-	2,298	13,389	31,011
Freight carried lb.	-	-	-	241,770	653,049	-	1,216,538	2,111,357	2,111,357
Passenger-miles(4) No.	23,094,727	39,282,504	62,377,231	605,656	3,742,431	-	1,899,108	6,247,195	68,624,426
Goods ton-miles(4) "	-	-	-	21,289	40,160	-	526,743	588,192	588,192
Revenue non-transportation services:									
Specialty flying - Hours flown "	-	22	22	124	-	-	3	127	149
Total - All services:									
Traffic, hours and miles: (5)									
Revenue:									
Departures "	2,016	12,446	14,462	2,757	4,662	1,287	1,855	10,561	25,023
Hours flown "	3,824	17,572	21,396	3,294	4,467	1,120	2,461	11,342	32,738
Miles flown "	1,398,339	5,197,438	6,595,777	409,106	610,357	193,966	373,652	1,587,081	8,182,858
Passengers carried "	54,060	383,231	437,291	14,358	25,721	9,954	8,242	58,275	495,566
Cargo carried lb.	687,805	6,399,064	7,086,869	1,069,206	1,041,018	175,484	1,390,014	3,675,722	10,762,591
Goods carried "	951,717	9,343,785	10,295,502	1,212,080	1,229,603	243,167	1,499,229	4,184,079	14,479,581
Passenger-miles(4) No.	103,719,465	340,657,003	444,376,468	4,160,601	8,679,818	3,292,650	3,862,116	19,995,185	464,371,653
Goods ton-miles(4) "	1,097,218	4,731,876	5,829,094	257,517	264,938	42,931	574,732	1,140,118	6,969,212

See footnotes at end of table.

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

July 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.	40	181	221	133	179	34	60	406	627
Passengers carried	"	1,946	-	1,946	388	418	133	178	1,117	3,063
Goods carried	lb.	137,923	-	137,923	42,806	28,692	-	22,176	93,674	231,597
Passenger-miles	No.	3,407,130	-	3,407,130	90,873	157,847	39,986	108,979	397,685	3,804,815
Goods ton-miles	"	180,488	457,604	638,092	1,807	10,256	-	8,241	20,304	658,396
Fuel and oil consumed:										
Turbo fuel - Quantity	gal.	3,958,794	14,876,509	18,835,303	149,720	-	162,281	62,826	374,827	19,210,130
Cost	\$	651,338	1,964,921	2,616,259	35,932	-	34,079	14,810	84,821	2,701,080
Gasoline - Quantity	gal.	439,101	-	439,101	194,170	431,286	27,627	241,762	894,845	1,333,946
Cost	\$	125,484	-	125,484	66,978	164,311	9,116	100,866	341,271	466,755
Turbo oil - Quantity	gal.	341	3,192	3,533	75	-	347	7	429	3,962
Cost	\$	2,923	33,790	36,713	1,125	-	1,216	66	2,407	39,120
Other oil - Quantity	gal.	4,162	-	4,162	2,982	5,307	565	2,681	11,535	15,697
Cost	\$	4,627	-	4,627	3,727	6,634	452	2,924	13,737	18,364
Average number of employees:										
Pilots and co-pilots	No.	192	611	803	65	91	30	49	235	1,038
Other flight personnel	"	248	816	1,064	9	58	16	24	107	1,171
General management	"	121	65	186	8	55	48	19	130	316
Maintenance labour	"	527	2,580	3,107	204	196	70	131	601	3,708
Aircraft and traffic servicing	"	854	3,985	4,839	95	104	116	59	374	5,213
Other personnel	"	681	3,856	4,537	45	21	8	45	119	4,656
Total employees	"	2,623	11,913	14,536	426	525	288	327	1,566	16,102
Salaries and wages:										
Pilots and co-pilots	\$	257,260	810,408	1,067,668	57,922	80,920	25,396	40,517	204,755	1,272,423
Other flight personnel	\$	128,823	379,989	508,812	3,016	27,614	4,011	7,897	42,538	551,350
General management	\$	99,931	110,756	210,687	8,116	22,287	20,735	12,573	63,711	274,398
Maintenance labour	\$	254,262	1,382,491	1,636,753	91,588	90,116	33,977	54,693	270,374	1,907,127
Aircraft and traffic servicing	\$	371,449	1,950,796	2,322,245	36,200	62,430	41,793	24,373	164,796	2,487,041
Other personnel	\$	268,474	2,029,324	2,297,798	16,335	4,651	4,902	10,417	36,305	2,334,103
Total salaries and wages	\$	1,380,199	6,663,764	8,043,963	213,177	288,018	130,814	150,470	782,479	8,826,442

(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

July 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. 40,575	7,062	17,018	9,954	4,908	292,570	372,087
Domestic interline	" 3,183	3,511	-	-	-	78,999	89,847
Foreign interline	" 4,154	-	-	-	-	-	-
Totals(2)	" 47,912	10,573	17,018	9,954	4,908	371,569	461,934
Express carried:							
Originated	lb. 82,419	13,494	45,142	-	12,764	984,345	1,138,164
Domestic interline	" -	-	-	-	-	-	-
Foreign interline	" -	-	-	-	-	-	-
Totals(2)	" 82,419	13,494	45,142	-	12,764	984,345	1,138,164
Freight carried:							
Originated	" 498,338	813,942	292,943	175,484	70,189	5,414,719	7,265,615
Domestic interline	" 13,060	-	-	-	-	-	13,060
Foreign interline	" 36,229	-	-	-	-	-	36,229
Totals(2)	" 547,627	813,942	292,943	175,484	70,189	5,414,719	7,314,904
Excess baggage carried:							
Originated	" 43,157	18,852	25,463	33,231	12,764	-	133,467(3)
Domestic interline	" -	-	-	-	-	-	-
Foreign interline	" -	-	-	-	-	-	-
Totals(2)	" 43,157	18,852	25,463	33,231	12,764	-	133,467(3)
Mail carried:							
Originated	" 220,755	124,022	153,980	34,452	25,680	2,944,721	3,503,610
Domestic interline	" -	-	-	-	-	-	-
Foreign interline	" -	-	-	-	-	-	-
Totals(2)	" 220,755	124,022	153,980	34,452	25,680	2,944,721	3,503,610

(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

July 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. 2,159	538	353	90	3,140	11,031	14,171
Hours flown	" 3,055	2,210	983	570	6,818	13,268	20,086
Miles scheduled	" 650,604	1,009,783	382,267	264,642	2,307,296	3,522,996	5,830,292
Miles flown:							
Scheduled - Regular	" 634,854	1,005,695	379,889	260,748	2,281,186	3,449,653	5,730,839
Extra sections	" 57,722	60,461	1,367	5,534	125,084	90,380	215,464
Non-scheduled	" -	-	-	-	-	44,640	44,640
Totals	" 692,576	1,066,156	381,256	266,282	2,406,270	3,584,673	5,990,943
Ratio of regular miles flown to miles scheduled	97.6	99.6	99.4	98.5	98.9	97.9	98.3
Passengers carried	No. ...	...	...	...	155,781	263,888	419,669
Cargo carried	lb. ...	...	...	...	2,966,217	4,120,652	7,086,869
Mail carried .....	" ...	...	...	...	416,264	2,749,212	3,165,476
Passenger-miles	No. 40,268,445	91,386,188	23,616,759	16,358,491	171,629,883	210,369,354	381,999,237
Available seat-miles on scheduled services	" 59,815,191	141,822,692	47,064,277	34,076,959	282,779,119	313,192,283	594,971,402
Passenger load factor on scheduled services	67.3	64.4	50.2	48.0	60.7	67.2	64.2
Goods ton-miles:							
Express	No. 59,689	-	-	-	59,689	320,807	380,496
Freight	" 292,671	913,640	270,209	327,631	1,804,151	2,046,293	3,850,444
Excess baggage	" 23,727	42,478	26,751	11,118	104,074	121,174	225,248
Mail	" 43,747	177,759	54,772	95,688	371,966	1,000,940	1,372,906
Totals	" 419,834	1,133,877	351,732	434,437	2,339,880	3,489,214	5,829,094
Available ton-miles on scheduled service	" 7,270,737	19,327,583	5,771,553	4,423,684	36,793,537	44,064,385	80,857,942
Weight load factor on scheduled services(1)	61.2	53.1	47.0	46.8	53.0	55.7	54.5
Bulk:							
Departures	No. 114	580	-	4	698	...	...
Hours flown	" 183	1,956	-	29	2,168	...	...
Miles flown	" 37,384	718,620	-	9,476	765,480	...	...
Passengers carried	" 1,114	20,557	-	94	21,765	...	...
Goods carried	lb. 550	92,045	-	-	92,595	...	...
Passenger-miles(2)	No. ..	..	-	..	68,605,334	...	...
Goods ton-miles(2)	" -	6,834	-	-	6,834	...	...
Total:							
Departures	" 2,273	1,118	353	94	3,838	...	...
Hours flown	" 3,238	4,166	983	599	8,986	...	...
Miles flown	" 729,960	1,784,776	381,256	275,758	3,171,750	...	...
Passengers carried .....	" ..	..	..	..	177,546	...	...
Goods carried	lb. ..	..	..	..	3,058,812	...	...
Passenger-miles(2)	No. ..	..	..	..	240,235,217	...	...
Goods ton-miles(2)	" 419,834	1,140,711	351,732	434,437	2,346,714	...	...

(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)

July 1964

	United States			Europe		
	To	From	Total	To	From	Total
Passengers carried:						
Unit toll No.	88,881	89,214	178,095	25,039	26,610	51,649
Bulk "	707	712	1,419	12,057	11,222	23,279
Totals "	89,588	89,926	179,514	37,096	37,832	74,928
Freight, express and excess baggage carried:						
Unit toll lb.	540,401	2,164,133	2,704,534	574,040	1,169,764	1,743,804
Bulk "	-	-	-	46,574	-	46,574
Totals "	540,401	2,164,133	2,704,534	620,614	1,169,764	1,790,378
Mail carried (unit toll) "	137,618	239,979	377,597	110,347	133,378	243,725
	All other areas			Totals		
	To	From	Total	To	From	Total
Passengers carried:						
Unit toll No.	5,157	5,035	10,192	119,077	120,859	239,936
Bulk "	-	94	94	12,764	12,028	24,792
Totals "	5,157	5,129	10,286	131,841	132,887	264,728
Freight, express and excess baggage carried:						
Unit toll lb.	156,938	99,230	256,168	1,271,379	3,433,127	4,704,506
Bulk "	-	-	-	46,574	-	46,574
Totals "	156,938	99,230	256,168	1,317,953	3,433,127	4,751,080
Mail carried (unit toll) "	19,541	20,874	40,415	267,506	394,231	661,737
	Total by Canadian carriers			Total by Foreign carriers		
	Leaving Canada	Entering Canada	Total	Leaving Canada	Entering Canada	Total
Passengers carried:						
Unit toll No.	74,155	77,156	151,311	44,922	43,703	88,625
Bulk "	9,200	8,073	17,273	3,564	3,955	7,519
Totals "	83,355	85,229	168,584	48,486	47,658	96,144
Freight, express and excess baggage carried:						
Unit toll lb.	779,479	2,042,369	2,821,848	491,900	1,390,758	1,882,658
Bulk "	-	-	-	46,574	-	46,574
Totals "	779,479	2,042,369	2,821,848	538,474	1,390,758	1,929,232
Mail carried (unit toll) "	177,917	213,546	391,463	89,589	180,685	270,274

(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

July 1964

Type of service:	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
	No.	\$	No.	\$	No.	\$	No.	\$
Aerial advertising	5	516	7	686	-	-	124	12,147
Aerial fish cultivation	-	-	-	-	-	-	-	-
Aerial patrol and inspection	1,913	197,643	6,937	746,861	880	81,541	3,020	310,217
Aerial pest control	1,233	216,388	4,527	516,250	-	-	-	-
Aerial photography and survey	291	61,148	1,959	234,445	153	15,790	359	30,165
Aerial photography (excl. survey) ..	311	65,708	842	179,294	24	265	109	7,575
Aircraft rental	116	1,608	562	17,053	-	-	3	250
Flying training	3,939	62,922	19,586	332,399	-	-	209	15,750
Geophysical survey	788	81,804	4,783	496,900	318	76,766	811	170,349
Non-transportation charter	146	22,415	737	54,261	-	-	2	509
Philanthropic	-	-	-	-	-	-	-	-
Recreational flying	1,393	28,739	6,967	150,823	2	216	49	5,576
Specialty flying - Other	225	39,529	308	50,131	164	9,206	181	12,232
Totals	10,360	778,420	47,215	2,779,103	1,541	183,784	4,867	564,770

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

July 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. 14	...	7	...	21	...
Helicopters - Owned	" 126	116	11	11	137	127
Leased	" 16	10	1	1	17	11
Totals	" 142	126	12	12	154	138
Revenue hours flown - Unit toll	" 7	31	-	-	7	31
Bulk	" 10,175	25,769	555	1,841	10,730	27,610
Specialty	" 1,285	3,890	256	1,002	1,541	4,892
Totals	" 11,467	29,690	811	2,843	12,278	32,533
Non-revenue hours flown	" 247	1,398	11	144	258	1,542
Fuel and oil consumed:						
Gasoline	gal. 142,295	471,598	11,755	55,095	154,050	526,693
Cost	\$ 72,954	219,972	5,794	25,206	78,748	245,178
Oil	gal. 1,723	8,509	323	1,274	2,046	9,783
Cost	\$ 3,050	15,219	499	1,766	3,549	16,986
Average number of employees:						
Pilots	No. 156	116	9	9	165	125
Administrative	" 53	47	1	1	54	48
Maintenance labour	" 146	116	5	7	151	123
Other personnel	" 8	8	-	-	8	8
Totals	" 363	287	15	17	378	304
Salaries and wages:						
Pilots	\$ 144,329	598,307	7,375	54,796	151,704	653,103
Administrative	\$ 33,320	198,166	900	6,570	34,220	204,736
Maintenance labour	\$ 76,623	401,142	2,545	27,843	79,168	428,985
Other personnel	\$ 1,878	16,359	-	-	1,878	16,359
Totals	\$ 256,150	1,213,974	10,820	89,209	266,970	1,303,183

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

July 1964

	Current month	Year to date
	dollars	
Operating revenues:		
Unit toll transportation:		
Passengers	-	102
Express	-	-
Freight	-	-
Excess baggage	-	-
Mail	-	-
Total unit toll transportation	-	102
Bulk transportation	1,078,754	2,978,260
Total transportation	1,078,754	2,978,362
Other flying services	168,437	470,246
Total flying services	1,247,191	3,448,608
Non-flying services	Dr. 1,389	83,482
Total operating revenues	1,245,802	3,532,090
Operating expenses:		
Flying operations	343,665	1,537,366
Maintenance	103,888	718,398
General service and administration	72,718	464,173
Depreciation and amortization	63,095	318,346
Total operating expenses	583,366	3,038,283
Operating income (deficit)	662,436	493,807
Non-operating income:		
Capital gains and losses	20,713	33,275
Interest and discounts	96	7,433
Miscellaneous non-operating income	688	2,103
Income before interest expense	683,933	536,618
Interest expense	20,345	85,493
Income before income taxes	663,588	451,125
Provision for income taxes	5,281	5,636
Net income after income taxes	658,307	445,489

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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