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TABLE OF CONTENTS

	Page
Introduction	5
Charts:	
Operating Revenues of Canadian Carriers	6
Revenue Goods Carried by Canadian Carriers	6
Review and Analysis	7
Tables:	
1. Operating Statistics, Canadian and Foreign Carriers - All Services	8
2. Statement of Income, Canadian Carriers - All Services, by Revenue Group	10
3. Statement of Income, Canadian Scheduled Carriers - All Services, by Company	11
4. Operating Statistics, Canadian Scheduled Carriers - All Services, by Company	12
5. Interline Traffic, Canadian Scheduled Carriers - All Services, by Company	15
6. Operating Statistics, Canadian International Carriers - All Revenue Services, by Area of Service	16
7. Revenue Traffic Leaving and Entering Canada, Canadian and Foreign Carriers, by Area of Service(1)	17
8. Specialty Flying Services, Canadian Carriers - Groups I to IV, by Type of Service	18
9. Helicopter Operating Statistics - Canadian Carriers - Groups I to IV ..	18
10. Revenues, Expenses and Income, Canadian Carriers Operating Helicopters Only - Groups I to IV	19
11. Operating Statistics, Canadian Group V Carriers	19
Civil Aviation Definitions	20

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.

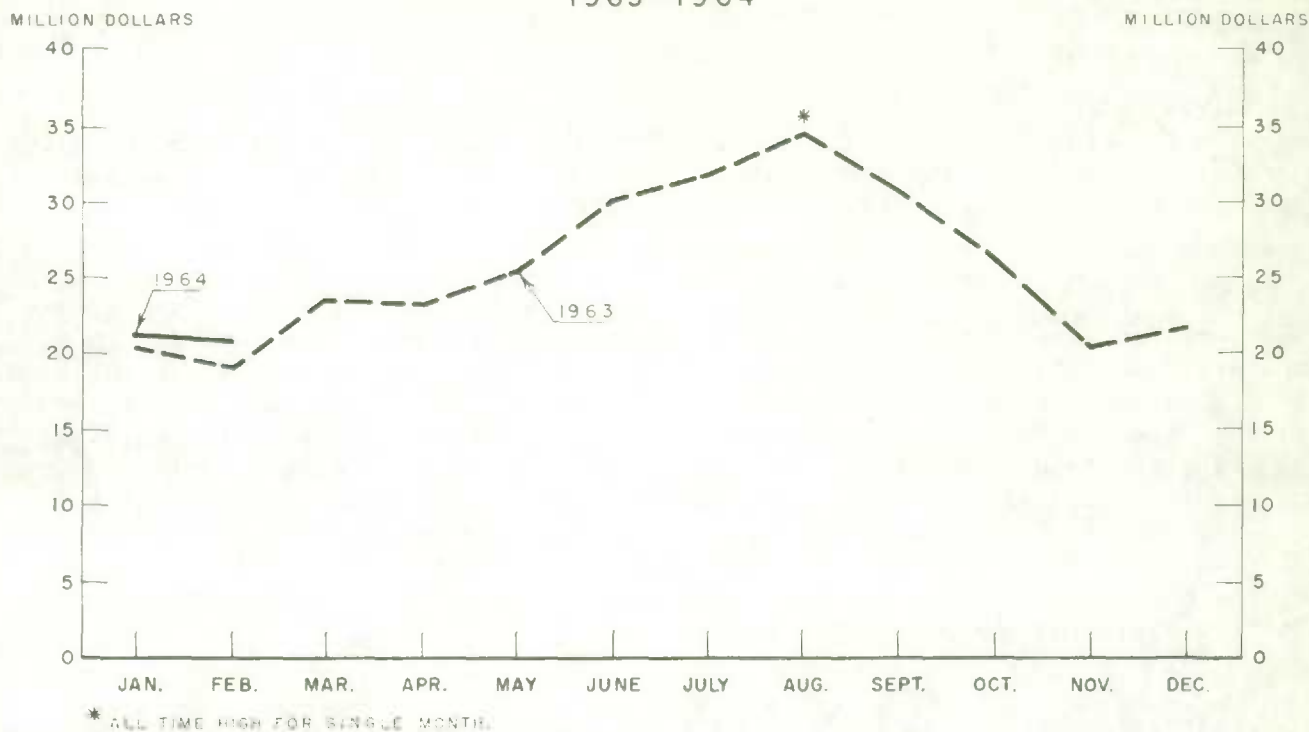
Domestic and international operations of Canadian carriers are combined in all tables except Table 6 which provides a breakdown of domestic and international operations for Canadian carriers operating international unit toll and bulk services.

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.

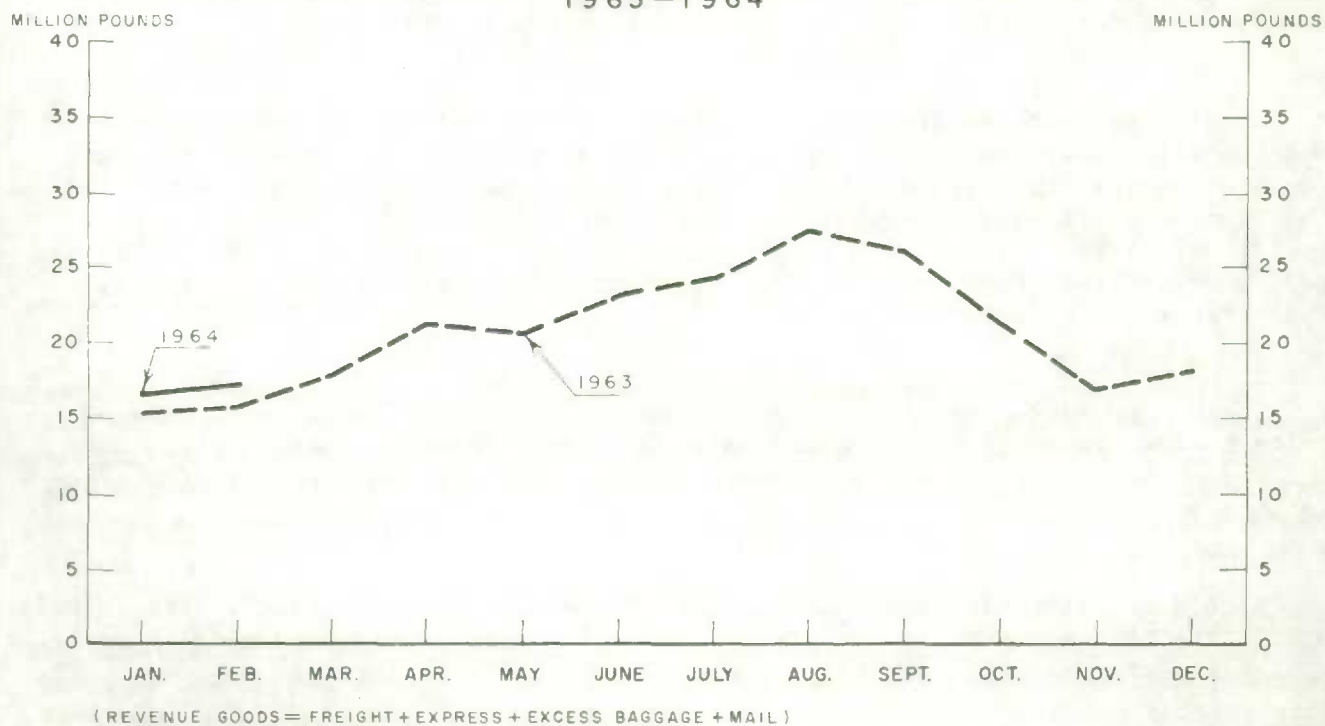
Table 7 provides data on traffic leaving and entering Canada on an area of service basis. Passengers, cargo and mail in transit through Canada are excluded. The table contains the operations of both Canadian and Foreign carriers with separate totals for each.

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 FEBRUARY OPERATIONS

Increases were reported in the transportation of both revenue passengers and goods by Canadian Air Carriers during the month of February compared with February 1963. Passengers carried totalled 382,856, an increase of 6.4 per cent. Goods transported rose to 8,605 tons, an increase of 9.0 per cent. The revenue miles flown were up 4.1 per cent to 6,787,010. Passenger-miles and goods-ton-miles performed by Canadian carriers in unit toll and bulk services totalled 268,706,293 and 7,040,877 respectively. Unit toll services accounted for 95.4 per cent of the total passenger-miles and 86.4 per cent of the total goods-ton-miles.

February operating revenues showed a 8.7 per cent increase over February 1963 to \$20,749,398 while operating expenses rose 7.7 per cent to \$22,884,814, thus an operating loss of \$2,135,416 was reported. This compares with a loss of \$2,169,771 for the same month the previous year. A net deficit after provision for income taxes of \$2,854,918 was reported as against a deficit of \$2,953,886 in February, 1963.

Revenue hours reported flown by 14 carriers who operated 120 helicopters exclusively amounted to 1,091. Hours reported flown by 16 helicopters operated by 8 fixed wing carriers totalled 297. Operating revenues reported by helicopter carriers amounted to \$164,023 while the operating expenses amounted to \$295,465.

In February the six scheduled carriers transported 359,243 revenue passengers, 93.8 per cent of all passengers carried by all Canadian carriers. They also carried 6,040 tons of revenue goods, 70.2 per cent of the total. Operating revenues amounted to \$19,322,438 or 93.1 per cent of all Canadian air carrier revenues. Operating expenses amounted to \$21,163,366 or 92.5 per cent of the total. Comparable figures for February 1963 are: passengers 92.1 per cent, goods 56.9 per cent, revenues 92.1 per cent and expenses 90.7 per cent.

Revenue passenger-miles performed by Canadian Carriers in international unit toll service in February amounted to 120,761,802 or 48.8 per cent of the total unit toll passenger-miles. The division of international services by area was as follows:

<u>Area</u>	<u>Percentage</u>
Trans-Border	20.3
Trans-Atlantic and Polar	27.2
Southern	34.8
Pacific and Orient	17.7
Total	100.0

The Cumulative View

The two months of 1964 compared with the same period in 1963 showed the revenue passengers carried increased 3.7 per cent to 778,033, while revenue goods rose 8.1 per cent to 16,881 tons. Passenger-miles and goods-ton-miles performed by Canadian carriers totalled 550,553,174 and 13,585,707 respectively. Operating revenues increased 6.3 per cent to \$41,972,841 while operating expenses increased 7.6 per cent to \$46,749,105.

Foreign Carriers

Foreign carriers licensed to operate in Canada transported 61,743 revenue passengers during February, an increase of 21.0 per cent over February 1963. Revenue goods carried totalled 1,282 tons, an increase of 35.2 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

February 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	49	64	70	10	9	89	..
Revenue transportation services:									
Unit toll:									
Departures No.	15,704	2,059	534	2,593	18,297	..	..	..	..
Hours flown "	19,252	1,935	242	2,177	21,429	310	761	22,500	46,355
Miles scheduled "	5,059,279	...	...	...	5,059,279	78,775	308,530	5,446,584	11,097,592
Miles flown:									
Scheduled "	5,031,693(4)	...	...	...	5,031,693(4)	77,237	310,018	5,418,948(4)	11,139,933(4)
Non-scheduled "	233,067(4)	239,800	29,837	269,637	502,704(4)	57	-	502,761(4)	1,049,909(4)
Totals "	5,264,760	239,800	29,837	269,637	5,534,397	77,294	310,018	5,921,709	12,189,842
Passengers carried "	350,154	6,108	1,950	8,058	358,212	47,636	13,893	419,741	855,856
Goods carried:									
Cargo lb.	7,132,062	502,448	93,609	596,057	7,728,119	729,700	1,537,959	10,099,892	19,834,108
Excess baggage "	94,803(5)	1,461	7,850	9,311	104,114(5)	-	-	-	-
Mail "	3,604,489	154,851	19,277	174,128	3,778,617	139,645	102,445	4,020,707	8,052,928
Totals "	10,831,354	658,760	120,736	779,496	11,610,850	869,345	1,640,404	14,120,599	27,887,036
Passenger-miles No.	255,238,727	1,091,942	70,032	1,161,974	256,400,701✓	2,063,991	9,148,852	267,613,544	547,680,546
Goods ton-miles:									
Cargo "	4,255,077	103,076	3,696	106,772	4,361,849✓	-	-	-	-
Excess baggage "	208,487	806	101	907	209,394✓	17,332	563,484	5,152,059	9,934,619
Mail "	1,479,214	33,980	844	34,824	1,514,038✓	3,140	47,184	1,564,362	3,111,099
Totals "	5,942,778	137,862	4,641	142,503	6,085,281	20,472	610,668	6,716,421	13,045,718
Bulk:									
Departures "	1,680	3,346	6,881	10,227	11,907	..	..	..	..
Hours flown "	2,288	3,817	4,523	8,340	10,628✓	-	26	10,654	20,322
Miles flown "	396,473	392,471	463,669	856,140	1,252,613	-	8,856	1,261,469	2,485,092
Passengers carried "	9,089	6,127	9,428	15,555	24,644	-	214	24,858	48,425
Freight carried lb.	1,249,639	2,906,727	1,442,010	4,348,737	5,598,376	-	51,577	5,649,953	10,459,594
Passenger-miles(6) No.	11,909,224	395,466	902	396,368	12,305,592	-	..	..	..
Goods ton-miles(6) "	435,298	439,845	80,453	520,298	955,596	-	..	..	..
Revenue non-transportation services:									
Specialty flying - Hours flown "	219	823	3,913	4,955	4,955✓	-	-	4,955	8,482

See footnotes at end of table.

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

February 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 - All services:										
Revenue:										
Traffic, miles and hours:(7)										
Departures	No.	17,384	5,405	7,415	12,820	30,204	..	..	..
Hours flown	"	21,759	6,575	8,682	15,257	37,016	310	787	38,113	
Miles flown	"	5,661,233	632,271	493,506	1,125,777	6,787,010	77,294	318,874	7,183,178	
Passengers carried	"	359,243	12,235	11,378	23,613	382,856	47,636	14,107	444,599	
Cargo carried	lb.	8,381,701	3,409,175	1,535,619	4,944,794	13,326,495	729,700(8)	1,589,536(8)	15,749,845(8)	
Goods carried	"	12,080,993	3,565,487	1,562,746	5,128,233	17,209,226	869,345	1,691,981	19,770,552	
Passenger-miles(6)	No.	267,147,951	1,487,408	70,934	1,558,342	268,706,293	2,063,991	..	..
Goods ton-miles(6)	"	6,378,076	577,707	85,094	662,801	7,040,877	20,472	..	..
Non-revenue:										
Hours flown	"	717	247	296	543	1,260	3	-	1,263	
Passengers carried	"	..	70	46	116	..	854	241	..	
Goods carried	lb.	..	21,918	-	21,918	..	10,187	34,993	..	
Passenger-miles	No.	11,200,855	65,934	246	66,180	11,267,035	37,521	154,423	..	
Goods ton-miles	"	435,168	64,434	-	64,434	499,602	252	10,962	..	
Fuel and oil consumed:										
Turbo fuel - Quantity	gal.	13,628,031	-	6,902	6,902	13,634,933	101,397	1,856,034	15,592,364	
Cost	\$	1,961,268	-	2,009	2,009	1,963,277	14,761	280,919	2,258,957	
Gasoline - Quantity	gal.	825,624	294,367	119,499	413,866	1,239,490	43,827	146,865	1,430,182	
Cost	\$	276,879	119,337	55,331	174,668	451,547	10,976	40,102	502,625	
Turbo oil - Quantity	gal.	3,111	-	1	1	3,112	7	80	3,199	
Cost	\$	29,599	-	15	15	29,614	42	706	30,362	
Other oil - Quantity	gal.	10,267	2,866	1,788	4,654	14,921	643	596	16,160	
Cost	\$	11,254	3,449	2,357	5,806	17,060	528	460	18,048	
Average number of employees:										
Pilots and co-pilots	No.	997	239	213	452	1,449	..	..	..
Other flight personnel	"	1,000	13	21	34	1,034	..	..	..
General management	"	349	82	71	153	502	..	..	..
Maintenance labour	"	3,565	295	181	476	4,041	..	..	..
Aircraft & traffic servicing	"	5,044	88	37	125	5,169	..	..	..
Other personnel	"	4,382	202	121	323	4,705	..	..	..
Totals	"	15,337	919	644	1,563	16,900	231	735	17,866	
Salaries and wages paid:										
Pilots and co-pilots	\$	1,153,393	168,034	114,293	282,327	1,435,720	..	..	..
Other flight personnel	\$	447,497	8,207	7,802	16,009	463,506	..	..	..
General management	\$	288,149	55,276	38,694	93,970	382,119	..	..	..
Maintenance labour	\$	1,669,946	125,342	74,126	199,468	1,869,414	..	..	..
Aircraft & traffic servicing	\$	2,214,538	31,215	12,682	43,897	2,258,435	..	..	..
Other personnel	\$	2,114,323	75,458	33,213	108,671	2,222,994	..	..	..
Totals	\$	7,887,846	463,532	280,810	744,342	8,632,188	122,504	393,027	9,147,719	
18,413,573										

(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

February 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	14,898,467	670,731	15,569,198	141,756	19,150	160,906	15,730,104	32,070,871
Express	283,060	13,401	296,461	10,023	4,569	14,592	311,053	649,946
Freight	1,004,557	157,097	1,161,654	63,254	2,014	65,268	1,226,922	2,409,255
Excess baggage	110,333	11,306	121,639	2,303	447	2,750	124,389	241,746
Mail	1,147,968	151,779	1,299,747	59,370	3,780	63,150	1,362,897	2,684,334
Total unit toll transportation ..	17,444,385	1,004,314	18,448,699	276,706	29,960	306,666	18,755,365	38,056,152
Bulk transportation	326,697	380,860	707,557	498,384	329,369	827,753	1,535,310	2,985,139
Total transportation	17,771,082	1,385,174	19,156,256	775,090	359,329	1,134,419	20,290,675	41,041,291
Other flying services	1,947	6,332	8,279	116,702	101,206	217,908	226,187	423,164
Total flying services	17,773,029	1,391,506	19,164,535	891,792	460,535	1,352,327	20,516,862	41,464,455
Non-flying services	132,393	25,510	157,903	39,111	35,522	74,633	232,536	508,386
Total operating revenues	17,905,422	1,417,016	19,322,438	930,903	496,057	1,426,960	20,749,398	41,972,841
Operating expenses:								
Flying operations	4,692,200	520,355	5,212,555	420,563	227,884	648,447	5,861,002	12,005,945
Maintenance	4,117,083	487,137	4,604,220	342,184	190,740	532,924	5,137,144	10,729,424
General services and administration:								
Passenger service	1,431,988	40,784	1,472,772	..	..	..	..	..
Aircraft and traffic servicing	3,000,641	247,370	3,248,011	..	..	..	..	..
Promotion and sales	3,133,558	107,126	3,240,684	..	..	..	..	..
General administration	864,990	109,068	974,058	..	..	..	..	..
Totals	8,431,177	494,348	8,935,525	241,060	116,344	357,404	9,292,929	15,744,598
Depreciation and amortization	2,294,824	116,242	2,411,066	109,286	73,387	182,673	2,593,739	5,269,138
Total operating expenses	19,535,284	1,628,082	21,163,366	1,113,093	608,355	1,721,448	22,884,814	46,749,105
Operating income (loss)	Dr. 1,629,862	Dr. 211,066	Dr. 1,840,928	Dr. 182,190	Dr. 112,298	Dr. 294,488	Dr. 2,135,416	Dr. 4,776,264
Non-operating income - Net:								
Capital gains and losses	17,280	1,990	19,270	81,925	11,574	93,499	112,769	116,247
Interest and discounts	140,228	70	140,298	737	1,460	2,197	142,495	281,109
Miscellaneous non-operating income ..	808	Dr. 994	Dr. 186	13,668	142	13,810	13,624	43,348
Income before interest expense	Dr. 1,471,546	Dr. 210,000	Dr. 1,681,546	Dr. 85,860	Dr. 99,122	Dr. 184,982	Dr. 1,866,528	Dr. 4,335,560
Interest expense	883,441	61,190	944,631	25,366	11,454	36,820	981,451	2,053,624
Income before income taxes	Dr. 2,354,987	Dr. 271,190	Dr. 2,626,177	Dr. 111,226	Dr. 110,576	Dr. 221,802	Dr. 2,847,979	Dr. 6,389,184
Provision for income taxes	-	-	-	5,285	1,654	6,939	6,939	12,897
Net income after income taxes	Dr. 2,354,987	Dr. 271,190	Dr. 2,626,177	Dr. 116,511	Dr. 112,230	Dr. 228,741	Dr. 2,854,918	Dr. 6,402,081

(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

February 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	3,685,374	114,057	236,985	193,351	126,338	11,213,093	15,569,198	31,716,854
Express	14,119	1,817	8,931	-	2,653	268,941	296,461	626,422
Freight	278,660	53,568	56,245	30,348	16,936	725,897	1,161,654	2,272,812
Excess baggage	34,266	1,173	4,530	4,608	995	76,067	121,639	235,393
Mail	236,817	76,037	44,810	5,985	24,947	911,151	1,299,747	2,564,763
Total unit toll transportation ..	4,249,236	246,652	351,501	234,292	171,869	13,195,149	18,448,699	37,416,244
Bulk transportation	108,587	78,822	154,941	1,243	145,854	218,110	707,557	1,405,325
Total transportation	4,357,823	325,474	506,442	235,535	317,723	13,413,259	19,156,256	38,821,569
Other flying services	-	6,332	-	-	-	1,947	8,279	26,472
Total flying services	4,357,823	331,806	506,442	235,535	317,723	13,415,206	19,164,535	38,848,041
Non-flying services	74,405	20,166	1,416	1,880	2,048	57,988	157,903	342,139
Total operating revenues	4,432,228	351,972	507,858	237,415	319,771	13,473,194	19,322,438	39,190,180
Operating expenses:								
Flying operations	1,647,044	118,748	198,928	66,965	135,714	3,045,156	5,212,555	10,724,372
Maintenance	695,193	173,194	127,879	68,806	117,258	3,421,890	4,604,220	9,702,474
General services and administrations:								
Passenger service	381,230	4,204	14,983	9,556	12,041	1,050,758	1,472,772	2,968,802
Aircraft and traffic servicing	542,728	80,550	122,560	27,172	17,088	2,457,913	3,248,011	6,528,936
Promotion and sales	844,655	7,973	15,689	46,819	36,645	2,288,903	3,240,684	6,540,754
General administration	176,093	29,124	34,454	26,778	18,712	688,897	974,058	1,968,736
Totals	1,944,706	121,851	187,686	110,325	84,486	6,486,471	8,935,525	18,007,228
Depreciation and amortization	189,509	35,665	27,186	33,205	20,186	2,105,315	2,411,066	4,870,142
Total operating expenses	4,476,452	449,458	541,679	279,301	357,644	15,058,832	21,163,366	43,304,216
Operating income (loss)	Dr. 44,224	Dr. 97,486	Dr. 33,821	Dr. 41,886	Dr. 37,873	Dr. 1,585,638	Dr. 1,840,928	Dr. 4,114,036
Non-operating income - Net:								
Capital gains and losses	-	-	Dr. 430	2,420	-	17,280	19,270	21,648
Interest and discounts	48,063	-	-	44	26	92,165	140,298	277,050
Miscellaneous non-operating income ..	3,144	-	Dr. 54	Dr. 761	Dr. 179	Dr. 2,336	Dr. 186	21,962
Income before interest expense	6,983	Dr. 97,486	Dr. 34,305	Dr. 40,183	Dr. 38,026	Dr. 1,478,529	Dr. 1,681,546	Dr. 3,793,376
Interest expense	-	30,711	11,853	12,852	5,774	883,441	944,631	1,977,140
Income before income taxes	6,983	Dr. 128,197	Dr. 46,158	Dr. 53,035	Dr. 43,800	Dr. 2,361,970	Dr. 2,626,177	Dr. 5,770,516
Provision for income taxes	-	-	-	-	-	-	-	-
Net income after income taxes	6,983	Dr. 128,197	Dr. 46,158	Dr. 53,035	Dr. 43,800	Dr. 2,361,970	Dr. 2,626,177	Dr. 5,770,516

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

February 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.	1,721	9,826	11,547	1,167	1,114	930	946	4,157	15,704
Hours flown	"	3,315	12,252	15,567	850	1,238	694	903	3,685	19,252
Miles scheduled	"	1,149,722	3,531,600	4,681,322	66,980	156,822	68,260	85,895	377,957	5,059,279
Miles flown:										
Scheduled - Regular	"	1,140,083	3,456,944	4,597,027	48,189	155,616	67,505	85,583	356,893	4,953,920
Extra section	"	119	59,174	59,293	1,668	10,657	156	5,999	18,480	77,773
Non-scheduled	"	45,367	-	45,367	80,915	18,225	49,429	39,131	187,700	233,067
Totals	"	1,185,569	3,516,118	4,701,687	130,772	184,498	117,090	130,713	563,073	5,264,760
Ratio of regular miles flown to miles scheduled		99.2	97.9	98.2	71.9	99.2	98.9	99.6	94.4	97.9
Passengers carried	No.	38,058	281,722	319,780	7,179	11,560	7,102	4,533	30,374	350,154
Goods carried:										
Freight	lb.	629,162	4,404,974	5,034,136	517,314	440,058	147,402	115,041	1,219,815	6,253,951
Express	"	65,383	764,951	830,334	9,164	27,856	-	10,757	47,777	878,111
Excess baggage	"	42,475	-	42,475 (2)	7,396	15,602	23,948	5,382	52,328	94,803 (2)
Mail	"	210,840	2,888,038	3,098,878	228,838	155,594	32,812	88,367	505,611	3,604,489
Totals	"	947,860	8,057,963	9,005,823	762,712	639,110	204,162	219,547	1,825,531	10,831,354
Passenger-miles:										
Scheduled	No.	65,411,621	181,352,082	246,763,703	396,676	2,625,906	1,262,253	1,296,831	5,581,666	252,345,369
Non-scheduled	"	935,108	-	935,108	855,756	52,446	914,835	135,213	1,958,250	2,893,358
Totals	"	66,346,729	181,352,082	247,698,811	1,252,432	2,678,352	2,177,088	1,432,044	7,539,916	255,238,727
Available seat-miles on scheduled services	"	137,910,759	322,250,891	460,161,650	1,736,044	6,425,468	2,255,332	3,289,457	13,706,301	473,867,951
Passenger load factor on scheduled services		47.4	56.3	53.6	22.8	40.9	56.0	39.4	40.7	53.3
Goods ton-miles:										
Freight - Scheduled	No.	894,930	2,751,058	3,645,988	103,488	117,018	16,303	13,730	250,539	3,896,527
Non-scheduled	"	2,068	-	2,068	18,487	2,319	10,134	5,471	36,411	38,479
Totals	"	896,998	2,751,058	3,648,056	121,975	119,337	26,437	19,201	286,950	3,935,006
Express - Scheduled	"	16,069	292,324	308,393	383	6,926	-	2,477	9,786	318,179
Non-scheduled	"	627	-	627	1,207	-	-	58	1,265	1,892
Totals	"	16,696	292,324	309,020	1,590	6,926	-	2,535	11,051	320,071

See footnotes at end of table.

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

February 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.	52,096	146,736	198,832	348	2,283	2,387	1,071	6,089	204,921
Non-scheduled "	146	-	146	890	19	2,453	58	3,420	3,566
Totals "	52,242	146,736	198,978	1,238	2,302	4,840	1,129	9,509	208,487
Mail - Scheduled "	204,993	1,188,654	1,393,647	8,668	37,542	2,819	7,474	56,503	1,450,150
Non-scheduled "	3,779	-	3,779	17,290	394	1,058	6,543	25,285	29,064
Totals "	208,772	1,188,654	1,397,426	25,958	37,936	3,877	14,017	81,788	1,479,214
Total - Scheduled "	1,168,088	4,378,772	5,546,860	112,887	163,769	21,509	24,752	322,917	5,869,777
Non-scheduled "	6,620	-	6,620	37,874	2,732	13,645	12,130	66,381	73,001
Totals "	1,174,708	4,378,772	5,553,480	150,761	166,501	35,154	36,882	389,298	5,942,778
Available ton-miles on scheduled services "	18,307,821	46,150,142	64,457,963	319,857	912,797	222,904	423,122	1,878,680	66,336,643
Weight load factor on scheduled services(3)	42.1	48.8	46.9	47.7	46.7	66.3	36.5	46.9	46.9
Bulk:									
Departures No.	15	102	117	409	914	8	232	1,563	1,680
Hours flown "	121	258	379	485	917	6	501	1,909	2,288
Miles flown "	43,363	99,388	142,751	48,761	119,066	828	85,067	253,722	396,473
Passengers carried "	800	2,917	3,717	2,745	1,880	30	717	5,372	9,089
Freight carried lb.	-	-	-	263,352	464,776	1,308	520,203	1,249,639	1,249,639
Passenger-miles(4) No.	3,302,242	6,276,447	9,578,689	343,940	1,311,323	6,009	669,263	2,330,535	11,909,224
Goods ton-miles(4) "	-	-	-	9,563	114,827	39	310,869	435,298	435,298
Revenue non-transportation services:									
Specialty flying - Hours flown "	-	7	7	212	-	-	-	212	219
Total - All services:									
Traffic, hours and miles:(5)									
Revenue:									
Departures "	1,736	9,928	11,664	1,576	2,028	938	1,178	5,720	17,384
Hours flown "	3,436	12,517	15,953	1,547	2,155	700	1,404	5,806	21,759
Miles flown "	1,228,932	3,615,506	4,844,438	179,533	303,564	117,918	215,780	816,795	5,661,233
Passengers carried "	38,858	284,639	323,497	9,924	13,440	7,132	5,250	35,746	359,243
Cargo carried lb.	694,545	5,169,925	5,864,470	789,830	932,690	148,710	646,001	2,517,231	8,381,701
Goods carried "	947,860	8,057,963	9,005,823	1,026,064	1,103,886	205,470	739,750	3,075,170	12,080,993
Passenger-miles(4) No.	69,648,971	187,628,529	257,277,500	1,596,372	3,989,675	2,183,097	2,101,307	9,870,451	267,147,951
Goods ton-miles(4) "	1,174,708	4,378,772	5,553,480	160,324	281,328	35,193	347,751	824,596	6,378,076

See footnotes at end of table.

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

February 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. 131	316	447	88	99	24	59	270	717
Passangers carried	" 1,490	..	..	193	316	143	135	787	..
Goods carried	lb. 130,504	..	..	13,287	32,073	-	12,533	57,893	..
Passenger-miles	No. 2,889,725	7,768,451	10,658,176	314,944	115,680	40,327	71,728	542,679	11,200,855
Goods ton-miles	" 182,351	234,122	416,473	2,690	12,268	-	3,737	18,695	435,168
Fuel and oil consumed:									
Turbo fuel - Quantity	gal. 3,413,794	9,977,996	13,391,790	78,800	-	103,575	53,866	236,241	13,628,031
Coat	\$ 578,028	1,331,250	1,909,278	18,912	-	20,715	12,363	51,990	1,961,268
Gasoline - Quantity	gal. 370,146	-	370,146	87,101	221,661	15,006	131,710	455,478	825,624
Cost	\$ 102,074	-	102,074	32,404	85,909	6,920	49,572	174,805	276,879
Turbo oil - Quantity	gal. 396	2,300	2,696	40	-	375	6	421	3,117
Cost	\$ 2,372	25,434	27,806	600	-	1,193	64	1,857	29,663
Other oil - Quantity	gal. 4,512	-	4,512	1,334	2,436	290	1,695	5,755	10,267
Cost	\$ 4,495	-	4,495	1,668	3,045	351	1,695	6,759	11,254
Average number of employees:									
Pilots and co-pilots	No. 209	588	797	56	72	25	47	200	997
Other flight personnel	" 264	670	934	6	25	10	25	66	1,000
General management	" 123	64	187	46	47	48	21	162	349
Maintenance labour	" 552	2,513	3,065	151	174	69	106	500	3,565
Aircraft and traffic servicing	" 827	3,847	4,674	99	94	111	66	370	5,044
Other personnel	" 648	3,664	4,312	-	12	9	49	70	4,382
Total employees	" 2,623	11,346	13,969	358	424	272	314	1,368	15,337
Salaries and wages:									
Pilots and co-pilots	\$ 260,821	747,490	1,008,311	27,565	57,374	21,058	39,085	145,082	1,153,393
Other flight personnel	\$ 133,546	291,487	425,033	1,781	9,087	3,912	7,684	22,464	447,497
General management	\$ 100,804	108,071	208,875	25,030	20,347	20,126	13,771	79,274	288,149
Maintenance labour	\$ 260,941	1,181,320	1,442,261	80,129	82,459	33,240	31,857	227,685	1,669,946
Aircraft and traffic servicing	\$ 330,745	1,739,816	2,070,561	28,424	53,134	37,738	24,681	143,977	2,214,538
Other personnel	\$ 252,405	1,842,349	2,094,754	-	3,924	3,704	11,941	19,569	2,114,323
Total salaries and wages	\$ 1,339,262	5,910,533	7,249,795	162,929	226,325	119,778	129,019	638,051	7,887,846

(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

February 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.	32,070	5,834	11,059	7,102	4,079	242,546	302,690
Domestic interline	"	2,604	1,242	-	-	-	39,176	46,149
Foreign interline	"	3,127	-	-	-	-		
Totals(2)	"	37,801	7,076	11,059	7,102	4,079	281,722	348,839
Express carried:								
Originated	1b.	65,383	9,164	27,856	-	10,757	764,951	878,111
Domestic interline	"	-	-	-	-	-	-	-
Foreign interline	"	-	-	-	-	-	-	-
Totals(2)	"	65,383	9,164	27,856	-	10,757	764,951	878,111
Freight carried:								
Originated	"	527,540	517,314	402,607	147,402	50,598	4,404,974	6,050,435
Domestic interline	"	12,209	-	-	-	-	-	12,209
Foreign interline	"	36,470	-	-	-	-	-	36,470
Totals(2)	"	576,219	517,314	402,607	147,402	50,598	4,404,974	6,099,114
Excess baggage carried:								
Originated	"	42,475	7,396	15,330	23,498	4,962	..	93,661(3)
Domestic interline .....	"	-	-	-	-	-	..	..
Foreign interline .....	"	-	-	-	-	-	..	..
Totals(2)	"	42,475	7,396	15,330	23,498	4,962	..	93,661(3)
Mail carried:								
Originated	"	210,840	115,272	150,408	32,812	23,570	2,888,038	3,420,940
Domestic interline	"	-	-	-	-	-	-	-
Foreign interline	"	-	-	-	-	-	-	-
Totals(2)	"	210,840	115,272	150,408	32,812	23,570	2,888,038	3,420,940

(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

February 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. 1,474	342	440	122	2,378	9,169	11,547
Hours flown	" 1,964	1,201	1,267	788	5,220	10,347	15,567
Miles scheduled	" 479,632	544,348	551,293	348,379	1,923,652	2,757,670	4,681,322
Miles flown:							
Scheduled - Regular	" 468,019	535,223	547,186	348,379	1,898,807	2,698,220	4,597,027
Extra sections	" 7,287	-	9,458	-	16,745	42,548	59,293
Non-scheduled	" -	-	-	-	-	45,367	45,367
Totals	" 475,306	535,223	556,644	348,379	1,915,552	2,786,135	4,701,687
Ratio of regular miles flown to miles scheduled	97.6	98.3	99.3	100.0	99.6	97.8	98.2
Passengers carried	No. ...	...	...	...	112,118	207,662	319,780
Cargo carried	lb. ...	...	...	...	2,676,592	3,187,878	5,864,470
Mail carried .....	" ...	...	...	...	409,640	2,689,238	3,098,878
Passenger-miles	No. 24,495,762	32,861,216	42,006,703	21,398,121	120,761,802	126,937,009	247,698,811
Available seat-miles on scheduled services	" 40,892,001	69,808,791	71,782,379	44,412,237	226,895,408	233,266,242	460,161,650
Passenger load factor on scheduled services	59.9	47.1	58.5	48.2	53.2	54.4	53.8
Goods ton-miles:							
Express	No. 50,789	-	-	-	50,789	258,231	309,020
Freight	" 250,264	883,758	390,924	322,505	1,847,451	1,800,605	3,648,056
Excess baggage	" 16,708	26,379	39,027	22,381	104,495	94,483	198,978
Mail	" 36,854	216,023	55,602	109,094	417,573	979,853	1,397,426
Totals	" 354,615	1,126,160	485,553	453,980	2,420,308	3,133,172	5,553,480
Available ton-miles on scheduled service	" 5,040,177	9,904,976	9,906,996	5,796,582	30,648,731	33,809,232	64,457,963
Weight load factor on scheduled services(1)	55.6	44.5	47.3	44.7	47.3	46.5	46.9
Bulk:							
Departures	No. 56	124	17	3	200	...	...
Hours flown	" 100	328	75	28	531	...	...
Miles flown	" 21,632	114,193	20,208	9,566	165,599	...	...
Passengers carried	" 680	2,924	787	95	4,486	...	...
Goods carried	lb. -	49,417	-	-	49,417	...	...
Passenger-miles(2)	No. ..	..	..	..	10,519,855	...	...
Goods ton-miles(2)	" -	3,663	-	-	3,663	...	...
Total:							
Departures	" 1,530	466	457	125	2,578	...	...
Hours flown	" 2,064	1,529	1,342	816	5,751	...	...
Miles flown	" 496,938	649,416	576,852	357,945	2,081,151	...	...
Passengers carried .....	" ..	..	..	..	116,604	...	...
Goods carried	lb. ..	..	..	..	2,726,009	...	...
Passenger-miles(2)	No. ..	..	..	..	131,281,657	...	...
Goods ton-miles(2)	" 354,615	1,129,823	485,553	453,980	2,423,971	...	...

(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)

February 1964

	United States			Europe		
	To	From	Total	To	From	Total
Passengers carried:						
Unit toll No.	68,094	63,958	132,052	6,936	9,481	16,417
Bulk "	326	234	560	938	1,071	2,009
Totals "	68,420	64,192	132,612	7,874	10,552	18,426
Freight, express and excess baggage carried:						
Unit toll lb.	463,301	2,008,288	2,471,589	651,375	1,396,502	2,047,877
Bulk "	-	-	-	51,577	-	51,577
Totals "	463,301	2,008,288	2,471,589	702,952	1,396,502	2,099,454
Mail carried (unit toll) "	126,122	228,699	354,821	107,349	118,351	224,700
	All other areas			Totals		
	To	From	Total	To	From	Total
Passengers carried:						
Unit toll No.	12,244	9,631	21,875	87,274	83,070	170,344
Bulk "	428	89	517	1,692	1,394	3,086
Totals "	12,672	9,720	22,392	88,966	84,464	173,430
Freight, express and excess baggage carried:						
Unit toll lb.	146,547	94,670	241,217	1,261,223	3,499,460	4,760,683
Bulk "	-	-	-	51,577	-	51,577
Totals "	146,547	94,670	241,217	1,312,800	3,499,460	4,812,260
Mail carried (unit toll) "	19,732	22,320	42,052	253,203	369,370	622,573
	Total by Canadian carriers			Total by Foreign carriers		
	Leaving Canada	Entering Canada	Total	Leaving Canada	Entering Canada	Total
Passengers carried:						
Unit toll No.	55,953	52,862	108,815	31,321	30,208	61,529
Bulk "	1,608	1,264	2,872	84	130	214
Totals "	57,561	54,126	111,687	31,405	30,338	61,743
Freight, express and excess baggage carried:						
Unit toll lb.	748,070	1,744,954	2,493,024	513,153	1,754,506	2,267,659
Bulk "	-	-	-	51,577	-	51,577
Totals "	748,070	1,744,954	2,493,024	564,730	1,754,506	2,319,236
Mail carried (unit toll) "	176,511	203,972	380,483	76,692	165,398	242,090

(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

February 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	-	-	-	-	56	5,627	87	8,635
Aerial fish cultivation	-	-	-	-	-	-	-	-
Aerial patrol and inspection	654	79,722	1,036	110,610	218	20,851	479	57,212
Aerial pest control	-	-	2	225	-	-	-	-
Aerial photography and survey	223	18,999	300	30,783	-	-	86	2,195
Aerial photography (excl. survey) ..	45	801	64	1,246	27	2,575	44	3,917
Aircraft rental	31	532	61	1,015	-	-	3	250
Flying training	2,298	39,252	3,992	70,266	57	3,512	85	5,334
Geophysical survey	500	65,510	795	119,824	-	-	20	3,917
Non-transportation charter	1	151	1	151	-	-	2	509
Philanthropic	-	-	-	-	-	-	-	-
Recreational flying	830	15,694	1,395	25,631	15	1,184	26	3,935
Specialty flying - Other	-	-	-	-	-	-	4	531
Totals	4,582	220,661	7,646	359,751	373	33,749	836	86,435

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

February 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	28	8	16	22	44
Helicopters - Owned	" 110	221	14	27	124	124
Leased	" 10	16	2	4	12	10
Totals	" 120	237	16	31	136	134
Revenue hours flown - Unit toll	" 7	7	-	-	7	7
Bulk	" 753	1,330	241	306	994	1,636
Specialty	" 324	599	49	112	373	697
Totals	" 1,084	1,936	290	418	1,374	2,340
Non-revenue hours flown	" 76	127	3	32	79	159
Fuel and oil consumed:						
Gasoline	gal. 17,862	36,569	5,848	9,111	23,710	45,680
Cost	\$ 7,740	15,443	2,721	4,068	10,461	19,511
Oil	gal. 244	641	88	219	332	860
Cost	\$ 427	874	101	264	528	1,138
Average number of employees:						
Pilots	No. 98	98	14	29	112	113
Administrative	" 46	48	3	4	49	50
Maintenance labour	" 105	102	11	20	116	112
Other personnel	" 10	10	-	-	10	10
Totals	" 259	258	28	53	287	285
Salaries and wages:						
Pilots	\$ 61,878	119,478	9,904	18,841	71,782	138,319
Administrative	\$ 24,464	52,063	2,070	2,970	26,534	55,033
Maintenance labour	\$ 49,944	96,264	5,425	9,991	55,369	106,255
Other personnel	\$ 3,727	7,497	-	-	3,727	7,497
Totals	\$ 140,013	275,302	17,399	31,802	157,412	307,104

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

	Current month	Year to date
	dollars	
Operating revenues:		
Unit toll transportation:		
Passengers	24	24
Express	-	-
Freight	-	-
Excess baggage	-	-
Mail	-	-
Total unit toll transportation	24	24
Bulk transportation	126,639	206,274
Total transportation	126,663	206,298
Other flying services	29,589	59,388
Total flying services	156,252	265,686
Non-flying services	7,771	20,494
Total operating revenues	164,023	286,180
Operating expenses:		
Flying operations	123,199	225,686
Maintenance	84,214	155,704
General service and administration	57,620	121,826
Depreciation and amortization	30,432	71,817
Total operating expenses	295,465	575,033
Operating income (deficit)	Dr. 131,442	Dr. 288,853
Non-operating income:		
Capital gains and losses	10,501	10,501
Interest and discounts	402	757
Miscellaneous non-operating income	14,055	32,830
Income before interest expense	Dr. 106,484	Dr. 244,765
Interest expense	6,183	11,296
Income before income taxes	Dr. 112,667	Dr. 256,061
Provision for income taxes	-	-
Net income after income taxes	Dr. 112,667	Dr. 256,061

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

	Quarter	Year to date
Reporting carriers	No.	
Transportation:		
Hours flown	"	
Passengers carried	"	
Goods carried	lb.	
Specialty flying services:		
Aerial advertising	hr.	
Aerial fish cultivation	"	
Aerial patrol and inspection	"	
Aerial pest control	"	
Aerial photography and survey	"	
Aerial photography (excl. survey)	"	
Aircraft rental	"	
Flying training	"	
Geophysical survey	"	
Non-transportation charter	"	
Philanthropic	"	
Recreational flying	"	
Specialty flying - Other	"	
Totals	"	
Total - All services:		
Revenue hours flown	No.	
Non-revenue hours flown	"	

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.

- (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.
<u>Passenger Load-Factor:</u>	- See Load Factor, Passenger.
<u>Passenger-Mile:</u>	The transportation of one passenger one mile.
<u>Non-Revenue Passenger:</u>	A child or adult carried on a revenue transportation flight for whom no fare is collected, including company personnel.
<u>Revenue Passenger:</u>	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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