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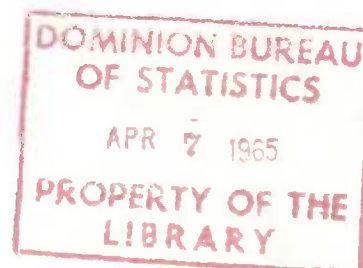
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CIVIL AVIATION

NOVEMBER 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.

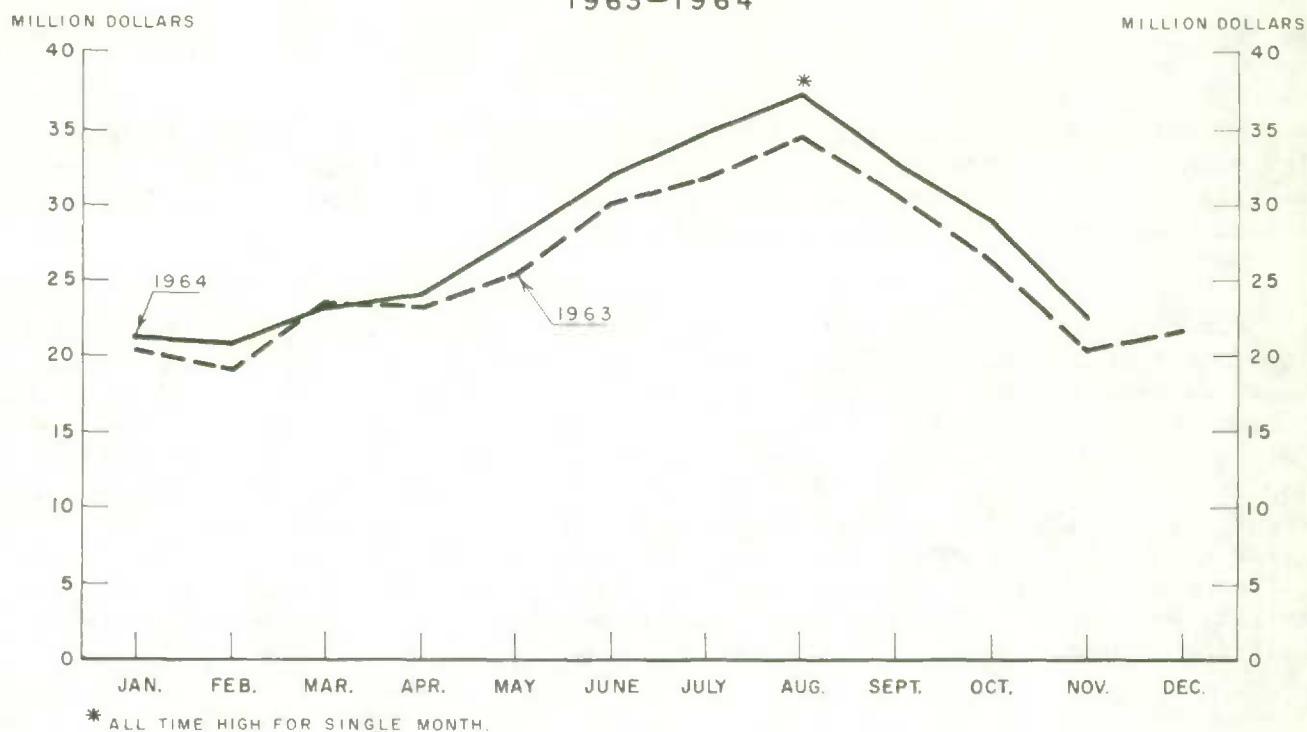
Domestic and international operations of Canadian carriers are combined in all tables except Table 6 which provides a breakdown of domestic and international operations for Canadian carriers operating international unit toll and bulk services.

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.

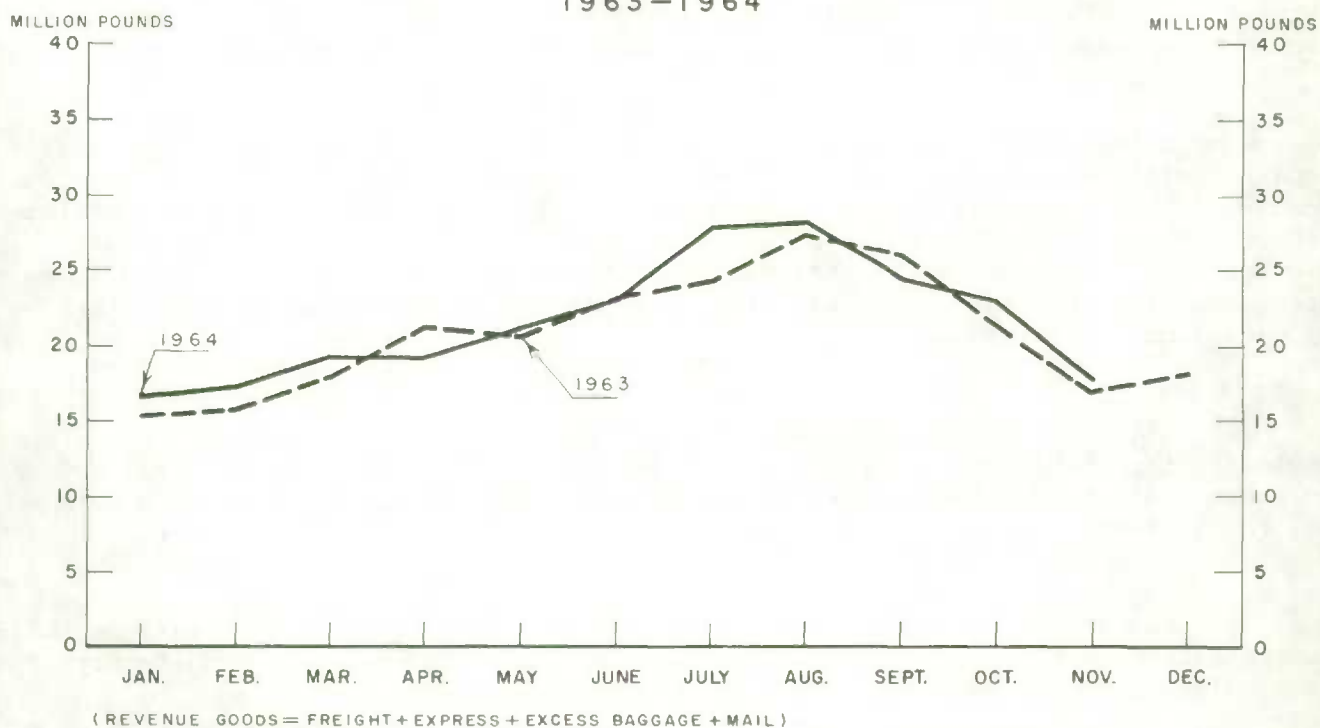
Table 7 provides data on traffic leaving and entering Canada on an area of service basis. Passengers, cargo and mail in transit through Canada are excluded. The table contains the operations of both Canadian and Foreign carriers with separate totals for each.

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 NOVEMBER OPERATIONS

Increases were reported in the transportation of both revenue passengers and goods by Canadian Air Carriers during the month of November compared with November 1963. Passengers carried totalled 417,903, an increase of 9.2 per cent, while goods transported showed an increase of 9.5 per cent to 8,870 tons. The revenue miles flown were up 9.6 per cent to 6,624,689. Passenger-miles and goods ton-miles performed by Canadian carriers in unit toll and bulk services totalled 282,186,106 and 8,585,059 respectively. Unit toll services accounted for 97.4 per cent of the total passenger-miles and 92.4 per cent of the total goods ton-miles.

November operating revenues showed a 9.1 per cent increase over November 1963 to \$22,519,125 while operating expenses increased 9.0 per cent to \$24,900,294, thus an operating loss of \$2,381,169 was reported. This compared with a loss of \$1,891,071 for the same month of the previous year. A deficit after provision for income taxes of \$3,199,953 was reported as against a deficit of \$2,679,583 in November 1963.

Revenue hours reported flown by 14 carriers who operated 148 helicopters exclusively amounted to 2,441. Hours reported flown by 16 helicopters operated by 7 fixed wing carriers totalled 267. Operating revenues reported by helicopter carriers amounted to \$333,665 while operating expenses amounted to \$546,022.

In November the six scheduled carriers transported 395,851 revenue passengers, 94.7 per cent of passengers carried by all Canadian carriers. They also carried 7,515 tons of revenue goods, 84.7 per cent of the total. Operating revenues amounted to \$21,064,078 or 93.5 per cent of the total. Operating expenses amounted to \$22,731,639 or 91.3 per cent of the total. Comparable figures for November 1963 are: passengers 94.3 per cent, goods 76.4 per cent, revenues 93.6 per cent and expenses 92.3 per cent.

Revenue passenger-miles performed by Canadian carriers in international unit toll service in November amounted to 105,748,964 or 40.0 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	27.2
Trans-Atlantic and Polar	32.2
Southern	23.8
Pacific and Orient	<u>16.8</u>
Total	<u>100.0</u>

The Cumulative View:

The first eleven months of 1964 compared with the same period of 1963 showed the revenue passengers were up 5.8 per cent to 5,317,377, while revenue goods rose 3.2 per cent to 118,919 tons. Passenger-miles and goods ton-miles performed by Canadian carriers totalled 4,061,355,323 and 95,570,836 respectively. Operating revenues increased 6.7 per cent to \$306,589,755 while operating expenses rose 6.4 per cent to \$284,704,768.

Foreign Carriers:

Foreign carriers licensed to operate in Canada transported 71,805 revenue passengers during November, an increase of 23.2 per cent over November 1963. Revenue goods carried totalled 1,407 tons, an increase of 24.5 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

November 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	14	48	62	68	10	9	87	..
Revenue transportation services:									
Unit toll:									
Departures No.	16,225	1,415	248	1,663	17,888	..	..	..	..
Hours flown "	20,385	1,620	139	1,759	22,144	318	797	23,259	290,860
Miles scheduled "	5,148,176	...	...	...	5,148,176	80,395	336,354	5,564,925	67,260,549
Miles flown:									
Scheduled "	5,235,061	...	...	...	5,235,061	77,277	308,840	5,621,178	68,766,913(4)
Non-scheduled "	228,225	220,095	16,400	236,495	464,720	-	-	464,720	6,604,522(4)
Totals "	5,463,286	220,095	16,400	236,495	5,699,781	77,277	308,840	6,085,898	75,371,435
Passengers carried "	389,154	6,223	1,884	8,107	397,261	54,395	16,451	468,107	5,666,677
Goods carried:									
Cargo lb.	9,889,300	328,910	27,095	356,005	10,245,305)	792,579	1,661,901	12,823,454	129,115,541
Excess baggage "	117,312	1,453	4,904	6,357	123,669)				
Mail "	3,609,298	69,361	13,654	83,015	3,692,313	145,357	192,432	4,030,102	44,823,294
Totals "	13,615,910	399,724	45,653	445,377	14,061,287	937,936	1,854,333	16,853,556	173,938,835
Passenger-miles No.	273,467,723	1,210,166	82,408	1,292,574	274,760,297	2,249,418	12,782,834	289,792,549	3,881,791,713
Goods ton-miles:									
Cargo "	6,007,748	93,920	1,433	95,353	6,103,101)	17,501	635,157	7,000,851	67,449,729
Excess baggage "	244,136	782	174	956	245,092)				
Mail "	1,563,374	19,553	930	20,483	1,583,857	3,019	81,277	1,668,153	17,507,792
Totals "	7,815,258	114,255	2,537	116,792	7,932,050	20,520	716,434	8,669,004	84,957,521
Bulk:									
Departures "	1,909	2,080	5,690	7,770	9,679	..	..	..	..
Hours flown "	2,314	2,759	4,248	7,007	9,321	3	25	9,349	243,202
Miles flown "	334,755	243,870	346,283	590,153	924,908	422	10,530	935,860	25,500,694
Passengers carried "	6,697	5,506	8,439	13,945	20,642	767	192	21,601	579,596
Freight carried lb.	1,413,393	1,328,390	936,020	2,264,410	3,677,803	-	22,046	3,699,849	96,320,857
Passenger-miles(6) No.	5,314,673	2,026,349	84,787	2,111,136	7,425,809	..	..	..	..
Goods ton-miles(6) "	412,454	207,535	33,020	240,555	653,009	-	..	653,009	..
Revenue non-transportation services:									
Specialty flying - Hours flown "	69	493	3,823	4,316	4,385	-	-	4,385	82,367

See footnotes at end of table.

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

November 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.	18,134	3,495	5,938	9,433	27,567	..	..	..
Hours flown	"	22,768	4,872	8,210	13,082	35,850	321	822	36,993
Miles flown	"	5,798,041	463,965	362,683	826,648	6,624,689	77,699	319,370	7,021,758
Passengers carried	"	395,851	11,729	10,323	22,052	417,903	55,162	16,643	489,708
Cargo carried	lb.	11,302,693	1,657,300	963,115	2,620,415	13,923,108	792,579(8)	1,683,947(8)	16,399,634
Goods carried	"	15,029,303	1,728,114	981,673	2,709,787	17,739,090	937,936	1,876,379	20,553,405
Passenger-miles(6)	No.	278,782,396	3,236,515	167,195	3,403,710	282,186,106	..	..	..
Goods ton-miles(6)	"	8,227,712	321,790	35,557	357,347	8,585,059	17,917	716,434	9,319,410
Non-revenue:									
Hours flown	"	658	264	264	528	1,186	1	-	1,187
Passengers carried	"	3,001	101	13	114	3,115	974	343	4,432
Goods carried	lb.	197,226	46,035	400	46,435	243,661	10,041	46,113	299,815
Passenger-miles	No.	16,545,820	123,581	533	124,114	16,669,934	42,278	190,334	16,902,546
Goods ton-miles	"	566,417	28,441	-	28,441	594,858	416	12,696	607,970
Fuel and oil consumed:									
Turbo fuel - Quantity	gal.	14,229,555	-	9,297	9,297	14,238,852	89,677	2,087,506	16,416,035
Cost	\$	2,010,494	-	2,851	2,851	2,013,345	14,434	334,215	2,361,994
Gasoline - Quantity	gal.	896,513	278,885	128,507	407,392	1,303,905	24,812	52,068	1,380,785
Cost	\$	293,859	103,854	54,381	158,235	452,094	6,840	15,581	474,515
Turbo oil - Quantity	gal.	8,054	-	1	1	8,055	24	82	8,161
Cost	\$	40,736	-	15	15	40,751	132	767	41,650
Other oil - Quantity	gal.	8,261	3,751	2,004	5,755	14,016	20	39	14,075
Cost	\$	9,315	4,996	2,710	7,706	17,021	11	37	17,069
Average number of employees:									
Pilots and co-pilots	No.	1,027	253	237	490	1,517	..	..	..
Other flight personnel	"	1,048	15	22	37	1,085	..	..	..
General management	"	311	85	75	160	471	..	..	..
Maintenance labour	"	3,722	305	220	525	4,247	..	..	..
Aircraft & traffic servicing	"	5,069	100	36	136	5,205	..	..	..
Other personnel	"	4,628	177	99	276	4,904	..	..	..
Totals	"	15,805	935	689	1,624	17,429	248	729	18,406
Salaries and wages paid:									
Pilots and co-pilots	\$	1,250,635	189,601	132,041	321,642	1,572,277	..	..	..
Other flight personnel	\$	493,470	10,295	8,171	18,466	511,936	..	..	..
General management	\$	280,144	54,659	51,445	106,104	386,248	..	..	..
Maintenance labour	\$	2,097,068	126,428	97,638	224,066	2,321,134	..	..	..
Aircraft & traffic servicing	\$	2,512,269	39,908	11,452	51,360	2,563,629	..	..	..
Other personnel	\$	2,333,180	62,848	35,875	98,723	2,431,903	..	..	..
Totals	\$	8,966,766	483,739	336,622	820,361	9,787,127	135,019	354,236	10,276,382
									110,405,498

- (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 Group I carriers.
 (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

November 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	15,845,906	776,120	16,622,026	158,984	17,473	176,457	16,798,483	221,645,477
Express	349,322	19,301	368,623	8,405	-	8,405	377,028	4,136,040
Freight	1,404,816	200,793	1,605,609	50,631	2,464	53,095	1,658,704	16,024,357
Excess baggage	126,609	15,413	142,022	2,564	299	2,863	144,885	1,591,130
Mail	1,238,042	111,806	1,349,848	25,853	4,008	29,861	1,379,709	15,046,517
Total unit toll transportation ..	18,964,695	1,123,433	20,088,128	246,437	24,244	270,681	20,358,809	258,443,521
Bulk transportation	161,202	394,073	555,275	485,134	365,431	850,565	1,405,840	38,900,845
Total transportation	19,125,897	1,517,506	20,643,403	731,571	389,675	1,121,246	21,764,649	297,344,366
Other flying services	2,694	11,933	14,627	95,861	130,565	226,426	241,053	5,368,970
Total flying services	19,128,591	1,529,439	20,658,030	827,432	520,240	1,347,672	22,005,702	302,713,336
Non-flying services	391,799	14,649	406,448	56,820	50,155	106,975	513,423	3,876,419
Total operating revenues	19,520,390	1,544,088	21,064,478	884,252	570,395	1,454,647	22,519,125	306,589,755
Operating expenses:								
Flying operations	4,800,534	593,395	5,393,929	434,450	346,807	781,257	6,175,186	77,749,629
Maintenance	4,319,018	518,858	4,837,876	425,210	264,427	689,637	5,527,513	62,280,710
General services and administration:								
Passenger service	1,638,248	65,684	1,703,932	..	..	..	..	..
Aircraft and traffic servicing	3,028,693	263,379	3,292,072	..	..	..	..	..
Promotion and sales	3,417,524	122,501	3,540,025	..	..	..	..	..
General administration	1,025,791	96,557	1,122,348	..	..	..	..	..
Totals	9,110,256	548,121	9,658,377	294,290	180,584	474,874	10,133,251	113,924,373
Depreciation and amortization	2,706,520	134,937	2,841,457	126,821	96,066	222,887	3,064,344	30,750,056
Total operating expenses	20,936,328	1,795,311	22,731,639	1,280,771	887,884	2,168,655	24,900,294	284,704,768
Operating income (loss)	Dr. 1,415,938	Dr. 251,223	Dr. 1,667,161	Dr. 396,519	Dr. 317,489	Dr. 714,008	Dr. 2,381,169	21,884,987
Non-operating income - Net:								
Capital gains and losses	-	11,328	11,328	2,733	6,789	9,522	20,850	827,438
Interest and discounts	211,982	1,046	213,028	1,439	1,239	2,678	215,706	1,969,407
Miscellaneous non-operating income ..	Dr. 15,420	Dr. 11,218	Dr. 26,638	Dr. 6,328	663	Dr. 5,665	Dr. 32,303	Dr. 25,228
Income before interest expense	Dr. 1,219,376	Dr. 250,067	Dr. 1,469,443	Dr. 398,675	Dr. 308,798	Dr. 707,473	Dr. 2,176,916	24,656,604
Interest expense	944,055	55,087	999,142	32,365	15,066	47,431	1,046,573	11,805,523
Income before income taxes	Dr. 2,163,431	Dr. 305,154	Dr. 2,468,585	Dr. 431,040	Dr. 323,864	Dr. 754,904	Dr. 3,223,489	12,851,081
Provision for income taxes	-	-	-	Cr. 11,000	Cr. 12,534	Cr. 23,534	Cr. 23,534	306,031
Net income after income taxes	Dr. 2,163,431	Dr. 305,154	Dr. 2,468,585	Dr. 420,040	Dr. 311,330	Dr. 731,370	Dr. 3,199,953	12,545,052

(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

November 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	3,425,710	144,972	298,668	215,271	117,209	12,420,196	16,622,026	218,819,605
Express	11,379	4,395	12,451	-	2,455	337,943	368,623	4,026,416
Freight	346,329	54,165	92,341	37,198	17,089	1,058,487	1,605,609	14,949,297
Excess baggage	39,757	2,942	6,530	5,202	739	86,852	142,022	1,531,386
Mail	248,462	29,034	51,212	7,602	23,958	989,580	1,349,848	14,520,623
Total unit toll transportation ..	4,071,637	235,508	461,202	265,273	161,450	14,893,058	20,088,128	253,847,327
Bulk transportation	27,871	114,018	95,992	1,150	182,913	133,331	555,275	18,649,941
Total transportation	4,099,508	349,526	557,194	266,423	344,363	15,026,389	20,643,403	272,497,268
Other flying services	-	11,933	-	-	-	2,694	14,627	311,150
Total flying services	4,099,508	361,459	557,194	266,423	344,363	15,029,083	20,658,030	272,808,418
Non-flying services	97,506	235	955	9,061	4,398	294,293	406,448	2,269,714
Total operating revenues	4,197,014	361,694	558,149	275,484	348,761	15,323,376	21,064,478	275,078,132
Operating expenses:								
Flying operations	1,490,317	142,640	242,015	73,078	135,662	3,310,217	5,393,929	65,907,442
Maintenance	645,897	168,163	141,326	69,850	139,519	3,673,121	4,837,876	54,239,819
General services and administrations:								
Passenger service	363,291	19,342	22,355	8,375	15,612	1,274,957	1,703,932	19,671,875
Aircraft and traffic servicing	512,098	90,555	130,137	26,412	16,275	2,516,595	3,292,072	37,325,494
Promotion and sales	889,009	9,169	22,748	50,233	40,351	2,528,515	3,540,025	40,899,529
General administration	222,362	14,262	36,544	28,382	17,369	803,429	1,122,348	11,130,012
Totals	1,986,760	133,328	211,784	113,402	89,607	7,123,496	9,658,377	109,026,910
Depreciation and amortization	173,631	53,831	28,277	32,648	20,181	2,532,889	2,841,457	28,115,411
Total operating expenses	4,296,605	497,962	623,402	288,978	384,969	16,639,723	22,731,639	257,289,582
Operating income (loss)	Dr. 99,591	Dr. 136,268	Dr. 65,253	Dr. 13,494	Dr. 36,208	Dr. 1,316,347	Dr. 1,667,161	17,788,550
Non-operating income - Net:								
Capital gains and losses	-	-	10,025	-	1,303	-	11,328	513,213
Interest and discounts	35,211	106	-	-	940	176,771	213,028	1,933,880
Miscellaneous non-operating income ..	Dr. 29,778	23	Dr. 9,908	Dr. 1,120	Dr. 213	14,358	Dr. 26,638	25,451
Income before interest expense	Dr. 94,158	Dr. 136,139	Dr. 65,136	Dr. 14,614	Dr. 34,178	Dr. 1,125,218	Dr. 1,469,443	20,261,094
Interest expense	-	27,318	10,192	12,560	5,017	944,055	999,142	11,173,862
Income before income taxes	Dr. 94,158	Dr. 163,457	Dr. 75,328	Dr. 27,174	Dr. 39,195	Dr. 2,069,273	Dr. 2,468,585	9,087,232
Provision for income taxes	-	-	-	-	-	-	-	-
Net income after income taxes	Dr. 94,158	Dr. 163,457	Dr. 75,328	Dr. 27,174	Dr. 39,195	Dr. 2,069,273	Dr. 2,468,585	9,087,232

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

November 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.	1,621	10,695	12,316	808	1,358	928	815	3,909	16,225
Hours flown	"	3,012	13,515	16,527	759	1,371	763	965	3,858	20,385
Miles scheduled	"	1,004,995	3,711,271	4,716,266	47,742	186,814	96,504	100,850	431,910	5,148,176
Miles flown:										
Scheduled - Regular	"	1,004,112	3,623,943	4,628,055	47,063	174,751	82,049	97,022	400,885	5,028,940
Extra section	"	3,878	180,528	184,406	7,230	7,073	-	7,412	21,715	206,121
Non-scheduled	"	40,779	-	40,779	75,578	27,007	49,315	35,546	187,446	228,225
Totals	"	1,048,769	3,804,471	4,853,240	129,871	208,831	131,364	139,980	610,046	5,463,286
Ratio of regular miles flown to miles scheduled		99.9	97.6	98.1	98.6	93.5	85.0	96.2	92.8	97.7
Passengers carried	No.	36,627	320,288	356,915	6,488	13,600	8,008	4,143	32,239	389,154
Goods carried:										
Freight	1b.	773,901	6,442,200	7,216,101	470,967	871,726	177,479	86,465	1,606,637	8,822,738
Express	"	55,708	949,405	1,005,113	18,046	34,186	-	9,217	61,449	1,066,562
Excess baggage	"	52,833	-	52,833	12,141	19,476	29,077	3,785	64,479	117,312(2)
Mail	"	221,628	2,960,678	3,182,306	150,394	162,209	36,932	77,457	426,992	3,609,298
Totals	"	1,104,070	10,352,283	11,456,353	651,548	1,087,597	243,488	176,924	2,159,557	13,615,910
Passenger-miles:										
Scheduled	No.	60,919,873	202,768,267	263,688,140	510,032	3,292,269	1,479,585	1,262,123	6,544,009	270,232,149
Non-scheduled	"	977,998	-	977,998	1,133,536	74,443	928,510	121,087	2,257,576	3,235,574
Totals	"	61,897,871	202,768,267	264,666,138	1,643,568	3,366,712	2,408,095	1,383,210	8,801,585	273,467,723
Available seat-miles on scheduled services	"	119,352,466	341,462,836	460,815,302	1,139,607	9,925,020	2,808,980	3,440,531	17,314,138	478,129,440
Passenger load factor on scheduled services		51.0	59.4	57.2	44.8	33.2	52.7	36.7	37.8	56.5
Goods ton-miles:										
Freight - Scheduled	No.	1,147,323	4,109,052	5,256,375	115,029	175,562	18,323	12,739	321,653	5,578,028
Non-scheduled	"	2,493	-	2,493	10,254	3,268	13,146	4,586	31,254	33,747
Totals	"	1,149,816	4,109,052	5,258,868	125,283	178,830	31,469	17,325	352,907	5,611,775
Express - Scheduled	"	13,960	367,341	381,301	1,046	8,480	-	1,921	11,447	392,748
Non-scheduled	"	748	-	748	2,387	-	-	90	2,477	3,225
Totals	"	14,708	367,341	382,049	3,433	8,480	-	2,011	13,924	395,973

See footnotes at end of table.

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

November 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.	67,907	164,411	232,318	1,056	3,245	1,982	793	7,076	239,394
Non-scheduled ... "	124	-	124	1,497	113	2,976	32	4,618	4,742
Totals "	68,031	164,411	232,442	2,553	3,358	4,958	825	11,694	244,136
Mail - Scheduled "	203,063	1,244,016	1,447,079	17,719	45,113	2,993	28,749	94,574	1,541,653
Non-scheduled "	3,615	-	3,615	9,274	501	2,543	5,788	18,106	21,721
Totals "	206,678	1,244,016	1,450,694	26,993	45,614	5,536	34,537	112,680	1,563,374
Total - Scheduled "	1,432,253	5,884,820	7,317,073	134,850	232,400	23,298	44,202	434,750	7,751,823
Non-scheduled "	6,980	-	6,980	23,412	3,882	18,665	10,496	56,455	63,435
Totals "	1,439,233	5,884,820	7,324,053	158,262	236,282	41,963	54,698	491,205	7,815,258
Available ton-miles on scheduled services "	15,613,290	53,144,640	68,757,930	364,629	1,207,084	278,914	418,457	2,269,084	71,027,014
Weight load factor on scheduled services(3)	48.2	49.2	49.0	57.4	46.8	68.1	43.2	32.9	49.0
Bulk:									
Departures No.	6	67	73	594	1,033	5	204	1,836	1,909
Hours flown "	39	152	191	747	794	5	577	2,123	2,314
Miles flown "	15,232	53,840	69,072	67,130	96,368	874	101,311	265,683	334,755
Passengers carried "	324	2,186	2,510	1,599	1,866	12	710	4,187	6,697
Freight carried lb.	-	-	-	200,608	689,722	3,000	520,063	1,413,393	1,413,393
Passenger-miles(4) No.	1,005,623	2,247,789	3,253,412	301,860	720,191	10,062	1,029,148	2,061,261	5,314,673
Goods ton-miles(4) "	-	-	-	16,837	28,093	319	367,205	412,454	412,454
Revenue non-transportation services:									
Specialty flying - Hours flown "	-	9	9	60	-	-	-	60	69
Total - All services:									
Traffic, hours and miles:(5)									
Revenue:									
Departures "	1,627	10,762	12,389	1,402	2,391	933	1,019	5,745	18,134
Hours flown "	3,051	13,676	16,727	1,566	2,165	768	1,542	6,041	22,768
Miles flown "	1,064,001	3,858,311	4,922,312	197,001	305,199	132,238	241,291	875,729	5,798,041
Passengers carried "	36,951	322,474	359,425	8,087	15,466	8,020	4,853	36,426	395,851
Cargo carried lb.	829,609	7,391,605	8,221,214	689,621	1,595,634	180,479	615,745	3,081,479	11,302,693
Goods carried "	1,104,070	10,352,283	11,456,353	852,156	1,777,319	246,488	696,987	3,572,950	15,029,303
Passenger-miles(4) No.	62,903,494	205,016,056	267,919,550	1,945,428	4,086,903	2,418,157	2,412,358	10,862,846	278,782,396
Goods ton-miles(4) "	1,439,233	5,884,820	7,324,053	175,099	264,375	42,282	421,903	903,659	8,227,712

See footnotes at end of table.

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

November 1965

	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. 83	270	353	99	127	22	57	305	658
Passengers carried	" 2,088	..	2,088	376	323	109	105	913	3,001
Goods carried	lb. 119,592	..	119,592	11,376	55,546	-	10,712	77,634	197,226
Passenger-miles	No. 4,944,546	11,369,567	16,314,113	96,470	55,340	29,345	50,552	231,707	16,545,820
Goods ton-miles	" 160,093	385,068	545,161	3,171	15,298	-	2,787	21,256	566,417
Fuel and oil consumed:									
Turbo fuel - Quantity	gal. 2,988,333	10,937,404	13,925,737	123,654	-	122,128	58,036	303,818	14,229,555
Cost	\$ 496,575	1,449,145	1,945,720	25,967	-	25,647	13,160	64,774	2,010,494
Gasoline - Quantity	gal. 406,683	-	406,683	69,805	249,589	18,336	152,100	489,830	896,513
Cost	\$ 113,131	-	113,131	23,455	93,150	6,051	58,072	180,728	293,859
Turbo oil - Quantity	gal. 371	7,334	7,705	62	-	281	6	349	8,054
Cost	\$ 3,111	35,650	38,761	930	-	985	60	1,975	40,736
Other oil - Quantity	gal. 2,097	-	2,097	1,073	2,870	741	1,480	6,164	8,261
Cost	\$ 2,182	-	2,182	1,341	3,587	593	1,612	7,133	9,315
Average number of employees:									
Pilots and co-pilots	No. 216	611	827	57	72	28	43	200	1,027
Other flight personnel	" 242	727	969	13	32	13	21	79	1,048
General management	" 116	66	182	8	52	50	19	129	311
Maintenance labour	" 534	2,627	3,161	188	182	71	120	561	3,722
Aircraft and traffic servicing	" 857	3,838	4,695	107	104	116	47	374	5,069
Other personnel	" 700	3,811	4,511	34	24	8	51	117	4,628
Total employees	" 2,665	11,680	14,345	407	466	286	301	1,460	15,805
Salaries and wages:									
Pilots and co-pilots	\$ 253,982	826,902	1,080,884	47,983	62,616	22,743	36,409	169,751	1,250,635
Other flight personnel	\$ 131,993	332,878	464,871	4,218	13,776	3,399	7,206	28,599	493,470
General management	\$ 102,226	111,654	213,880	8,116	24,488	21,064	12,596	66,264	280,144
Maintenance labour	\$ 302,625	1,547,236	1,849,861	77,054	95,278	30,661	43,214	247,207	2,097,068
Aircraft and traffic servicing	\$ 379,145	1,969,198	2,348,343	37,544	65,411	38,496	22,475	163,926	2,512,269
Other personnel	\$ 287,911	2,013,495	2,301,406	13,029	4,624	3,856	10,265	31,774	2,333,180
Total salaries and wages	\$ 1,457,882	6,801,363	8,259,245	187,944	267,193	120,219	132,165	707,521	8,966,766

(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

November 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.	30,280	5,202	12,860	8,008	3,853	272,282	332,485
Domestic interline	"	2,807	1,286	-	-	-	48,006	55,454
Foreign interline	"	3,355	-	-	-	-	-	-
Totals(2)	"	36,442	6,488	12,860	8,008	3,853	320,288	387,939
Express carried:								
Originated	lb.	55,708	18,046	34,186	-	9,217	949,405	1,066,562
Domestic interline	"	-	-	-	-	-	-	-
Foreign interline	"	-	-	-	-	-	-	-
Totals(2)	"	55,708	18,046	34,186	-	9,217	949,405	1,066,562
Freight carried:								
Originated	"	655,057	470,967	815,257	177,479	47,000	6,442,200	8,607,960
Domestic interline	"	14,922	-	-	-	-	-	14,922
Foreign interline	"	32,931	-	-	-	-	-	32,931
Totals(2)	"	702,910	470,967	815,257	177,479	47,000	6,442,200	8,655,813
Excess baggage carried:								
Originated	"	52,833	12,141	17,512	29,077	3,785	..	115,348(3)
Domestic interline .....	"	-	-	-	-	-	..	..
Foreign interline .....	"	-	-	-	-	-	..	..
Totals(2)	"	52,833	12,141	17,512	29,077	3,785	..	115,348(3)
Mail carried:								
Originated	"	221,628	150,394	151,447	36,932	25,829	2,960,678	3,546,908
Domestic interline	"	-	-	-	-	-	-	-
Foreign interline	"	-	-	-	-	-	-	-
Totals(2)	"	221,628	150,394	151,447	36,932	25,829	2,960,678	3,546,908

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

(2) Excludes division interline.

(3) Excludes Group I carriers.

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

November 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. 1,571	324	311	96	2,302	10,014	12,316
Hours flown	" 2,337	1,129	820	604	4,890	11,637	16,527
Miles scheduled	" 532,430	522,333	365,268	266,985	1,687,016	3,029,250	4,716,266
Miles flown:							
Scheduled - Regular	" 521,286	521,453	364,941	266,985	1,674,665	2,953,390	4,628,055
Extra sections	" 18,771	2,908	2,734	-	24,413	159,993	184,406
Non-scheduled	" -	-	-	-	-	40,779	40,779
Totals	" 540,057	524,361	367,675	266,985	1,699,078	3,154,162	4,853,240
Ratio of regular miles flown to miles scheduled	97.9	99.8	99.9	100.0	99.3	97.5	98.1
Passengers carried	No. ...	...	...	...	109,744	247,171	356,915
Cargo carried	lb. ...	...	...	...	3,226,456	4,994,758	8,221,214
Mail carried .....	" ...	...	...	...	372,956	2,809,350	3,182,306
Passenger-miles	No. 28,803,783	33,965,439	25,193,299	17,786,443	105,748,964	158,917,174	264,666,138
Available seat-miles on scheduled services	" 44,624,283	67,068,559	49,249,339	31,472,767	192,414,948	268,400,354	460,815,302
Passenger load factor on scheduled services	64.5	50.6	51.2	56.5	55.0	59.4	57.2
Goods ton-miles:							
Express	No. 57,164	-	-	-	57,164	324,885	382,049
Freight	" 321,557	1,211,391	325,806	522,932	2,381,686	2,877,182	5,258,868
Excess baggage	" 16,682	32,515	39,674	22,474	111,345	121,097	232,442
Mail	" 40,234	147,401	58,503	100,819	346,957	1,103,737	1,450,694
Totals	" 435,637	1,391,307	423,983	646,225	2,897,152	4,426,901	7,324,053
Available ton-miles on scheduled service	" 6,333,089	10,436,130	6,778,319	4,186,650	27,734,188	41,023,742	68,757,930
Weight load factor on scheduled services(1)	52.4	45.9	43.4	57.9	48.6	49.5	49.1
Bulk:							
Departures	No. 62	165	23	-	250	...	...
Hours flown	" 122	538	109	-	769	...	...
Miles flown	" 31,672	58,746	29,693	-	120,111	...	...
Passengers carried	" 1,128	1,392	979	-	3,499	...	...
Goods carried	lb. -	54,209	-	-	54,209	...	...
Passenger-miles(2)	No. ..	..	..	-	4,870,817	...	...
Goods ton-miles(2)	" -	1,354	-	-	1,354	...	...
Total:							
Departures	" 1,633	489	334	96	2,552	...	...
Hours flown	" 2,459	1,667	929	604	5,659	...	...
Miles flown	" 571,729	583,107	397,368	266,985	1,819,189	...	...
Passengers carried .....	" ..	..	..	..	113,243	...	...
Goods carried	lb. ..	..	..	..	3,653,621	...	...
Passenger-miles(2)	No. ..	..	..	17,786,443	110,619,781	...	...
Goods ton-miles(2)	" 435,637	1,392,661	423,983	646,225	2,898,506	...	...

(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)

November 1964

	United States			Europe		
	To	From	Total	To	From	Total
Passengers carried:						
Unit toll No.	72,739	70,228	142,967	9,922	13,907	23,829
Bulk "	1,145	701	1,846	366	364	730
Totals "	73,884	70,929	144,813	10,288	14,271	24,559
Freight, express and excess baggage carried:						
Unit toll 1b.	581,464	2,336,758	2,918,222	519,992	1,786,442	2,306,434
Bulk "	-	-	-	-	22,046	22,046
Totals "	581,464	2,336,758	2,918,222	519,992	1,808,488	2,328,480
Mail carried (unit toll) "	132,911	233,809	366,720	123,985	150,888	274,873
	All other areas			Totals		
	To	From	Total	To	From	Total
Passengers carried:						
Unit toll 8... No.	5,179	4,997	10,176	87,840	89,132	176,972
Bulk "	-	95	95	1,511	1,160	2,671
Totals "	5,179	5,092	10,271	89,351	90,292	179,643
Freight, express and excess baggage carried:						
Unit toll 1b.	193,719	139,822	333,541	1,295,175	4,263,022	5,558,197
Bulk "	-	-	-	-	22,046	22,046
Totals "	193,719	139,822	333,541	1,295,175	4,285,068	5,580,243
Mail carried (unit toll) "	23,165	23,468	46,633	280,061	408,165	688,226
	Total by Canadian carriers			Total by Foreign carriers		
	Leaving Canada	Entering Canada	Total	Leaving Canada	Entering Canada	Total
Passengers carried:						
Unit toll No.	52,788	53,338	106,126	35,052	35,794	70,846
Bulk "	996	716	1,712	515	444	959
Totals "	53,784	54,054	107,838	35,567	36,238	71,805
Freight, express and excess baggage carried:						
Unit toll 1b.	878,275	2,225,442	3,103,717	416,900	2,037,580	2,454,480
Bulk "	-	-	-	-	22,046	22,046
Totals "	878,275	2,225,442	3,103,717	416,900	2,059,626	2,476,526
Mail carried (unit toll) "	165,593	184,844	350,437	114,468	223,321	337,789

(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

November 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	3	277	24	2,363	3	391	167	15,798
Aerial fish cultivation	-	-	9	1,005	-	-	-	-
Aerial patrol and inspection	326	31,198	9,969	1,075,838	350	35,848	5,541	562,705
Aerial pest control	-	Dr. 423	5,477	714,269	-	-	-	-
Aerial photography and survey	83	39,191	2,914	439,733	46	3,790	405	33,955
Aerial photography (excl. survey) ..	69	4,532	1,467	288,135	17	849	186	12,775
Aircraft rental	31	491	820	21,485	-	-	3	250
Flying training	2,278	44,645	33,092	576,603	14	700	223	16,450
Geophysical survey	376	63,896	7,107	771,130	-	-	1,225	289,045
Non-transportation charter	15	2,674	828	75,242	-	-	2	509
Philanthropic	-	-	-	-	-	-	-	-
Recreational flying	765	15,647	11,608	251,562	-	-	71	7,099
Specialty flying - Other	1	72	594	215,085	8	1,747	189	13,979
Totals	3,947	202,200	73,909	4,432,450	438	43,325	8,012	952,565

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

November 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	" 138	118	14	15	152	133
Leased	" 10	12	2	1	12	13
Totals	" 148	130	16	16	164	146
Revenue hours flown - Unit toll	" 3	47	-	-	3	47
Bulk	" 2,089	52,400	195	3,237	2,383	55,637
Specialty	" 349	6,347	73	1,589	422	7,936
Totals	" 2,441	58,794	267	4,826	2,708	63,620
Non-revenue hours flown	" 138	2,187	3	200	141	2,387
Fuel and oil consumed:						
Gasoline	gal. 45,246	993,264	5,762	96,337	51,008	1,089,601
Cost	\$ 19,577	458,687	2,471	43,398	22,048	502,085
Oil	gal. 1,188	16,784	102	2,188	1,290	18,972
Cost	\$ 1,784	28,631	157	3,129	1,941	31,760
Average number of employees:						
Pilots	No. 123	122	13	13	136	135
Administrative	" 51	48	2	7	53	55
Maintenance labour	" 122	117	5	4	127	121
Other personnel	" 8	8	-	-	8	8
Totals	" 304	295	20	24	324	319
Salaries and wages:						
Pilots	\$ 89,341	1,031,946	9,878	94,601	99,219	1,126,547
Administrative	\$ 26,080	306,758	1,300	14,737	27,380	321,495
Maintenance labour	\$ 59,218	652,998	2,759	40,410	61,977	693,408
Other personnel	\$ 2,486	24,251	-	-	2,486	24,251
Totals	\$ 177,125	2,015,953	13,937	149,748	191,062	2,165,701

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

	Current month	Year to date
	dollars	
Operating revenues:		
Unit toll transportation:		
Passengers	-	133
Express	-	-
Freight	-	-
Excess baggage	-	-
Mail	-	-
Total unit toll transportation	-	133
Bulk transportation	277,190	6,034,052
Total transportation	277,190	6,034,185
Other flying services	34,138	789,530
Total flying services	311,328	6,823,715
Non-flying services	22,337	212,865
Total operating revenues	333,665	7,036,580
Operating expenses:		
Flying operations	226,529	2,702,494
Maintenance	166,379	1,496,944
General service and administration	120,102	784,814
Depreciation and amortization	33,012	541,789
Total operating expenses	546,022	5,526,041
Operating income (deficit)	Dr. 212,357	1,510,539
Non-operating income:		
Capital gains and losses	2,733	83,921
Interest and discounts	293	423
Miscellaneous non-operating income	295	3,958
Income before interest expense	Dr. 209,036	1,598,841
Interest expense	9,393	139,579
Income before income taxes	Dr. 218,429	1,459,262
Provision for income taxes	Cr. 9,465	26,806
Net income after income taxes	Dr. 208,964	1,432,456

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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