

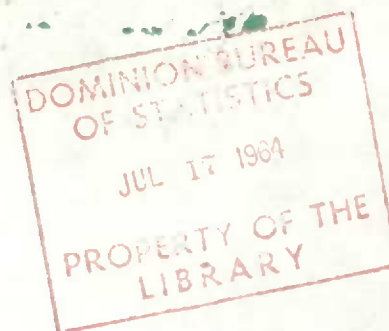
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51-001

MONTHLY



Historical Film Copy



# CIVIL AVIATION

## JANUARY 1964

*Published by Authority of*  
The Minister of Trade and Commerce

DOMINION BUREAU OF STATISTICS  
Public Finance and Transportation Division  
Transportation Section

June 1964  
8504-510

Price: 30 cents  
\$3.00 a year

Vol. 24—No. 1

ROGER DUHAMEL, F.R.S.C., Queen's Printer and Controller of Stationery, Ottawa

Reports Published by the  
Public Finance and Transportation Division  
dealing with  
Civil Aviation

| <u>Catalogue No.</u> | <u>Title</u>                              | <u>Price</u>  |
|----------------------|---|---------------|
| 51-001               | Civil Aviation - Monthly .....            | \$3.00 a year |
| 51-201               | Civil Aviation - Preliminary Annual ..... | .50           |
| 51-202               | Civil Aviation - Annual .....             | .50           |

Remittances should be in the form of cheque or money order, made payable to the Receiver General of Canada and forwarded to the Publications Distribution Unit, Financial Control Section, Dominion Bureau of Statistics, or to the Queen's Printer, Ottawa, Canada.

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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.

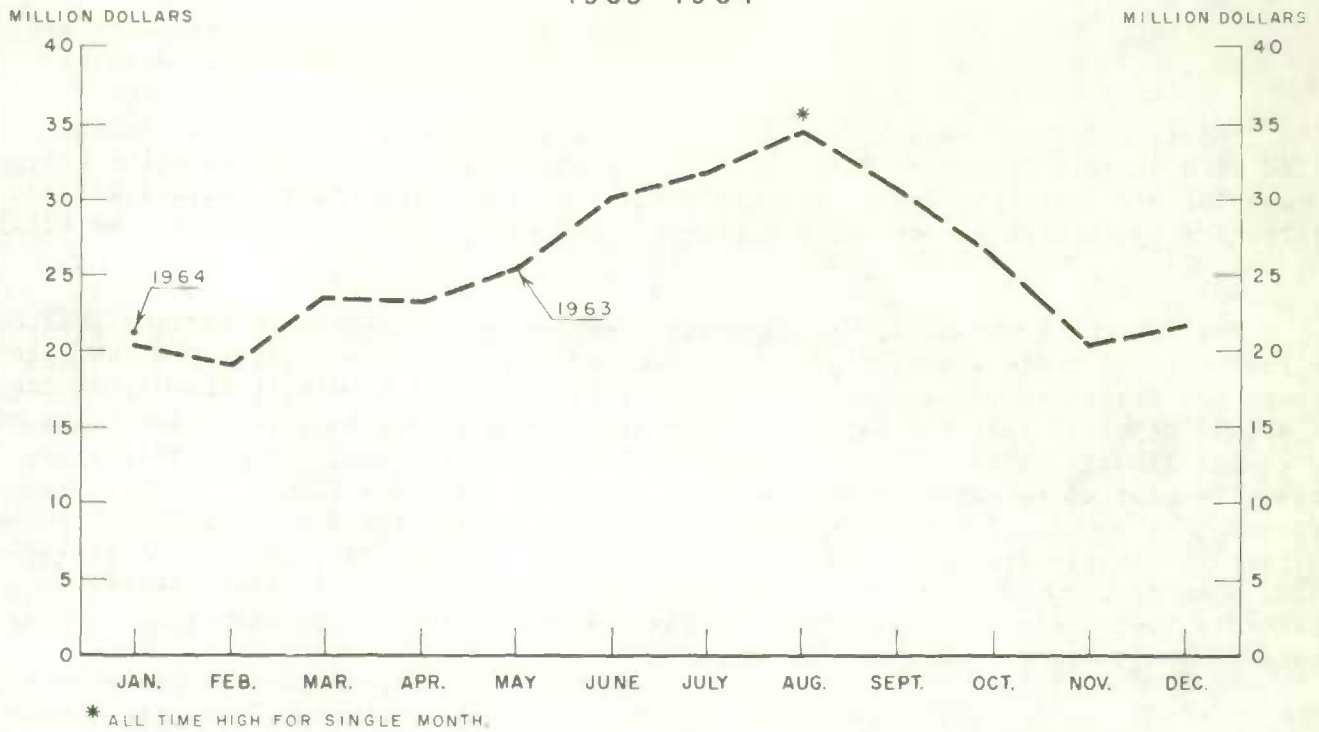
Commencing with the January, 1964 issue, bulk transport passenger-miles and goods-ton-miles have been added to the statistical data of this report. However, because of survey limitations, this data refers only to aircraft which has a minimum authorized take-off weight on wheels in excess of 18,000 pounds. 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.

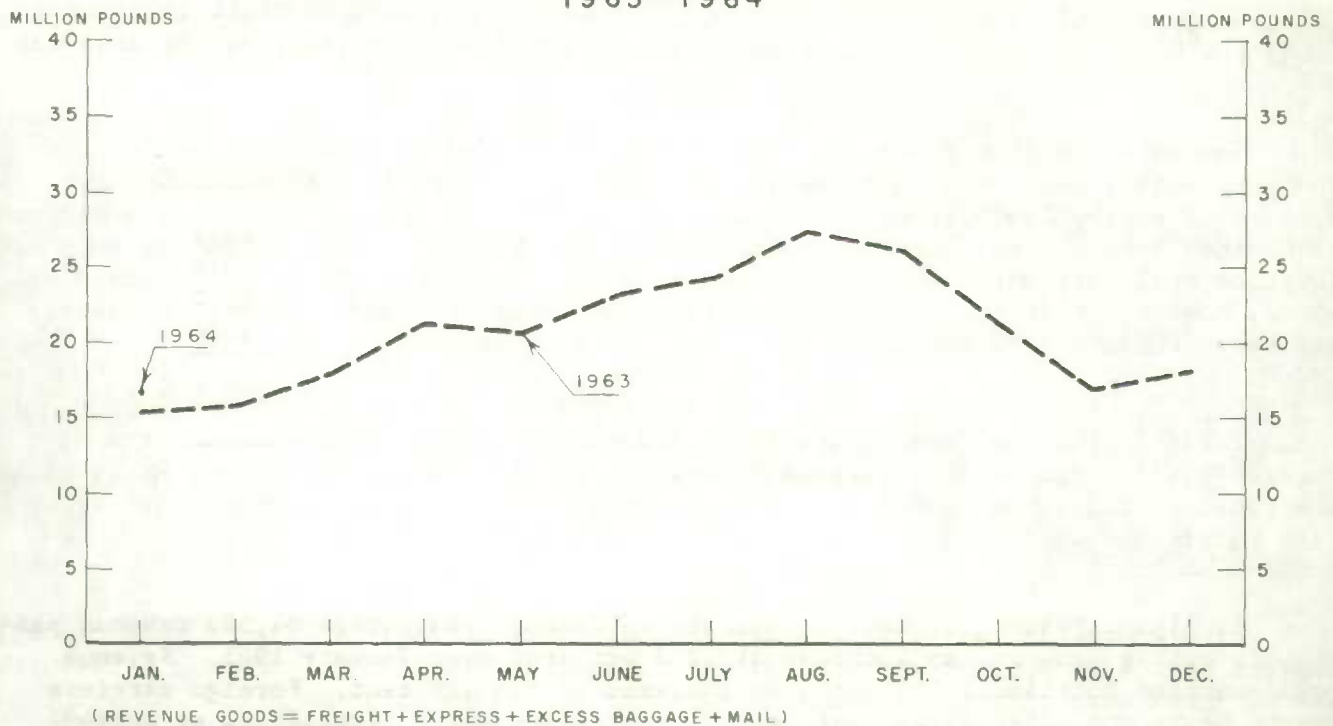
Also commencing with the January, 1964 issue of "Civil Aviation", data on helicopters have been expanded to include more detail. A split has been made between the use of fixed wing aircraft and helicopters for specialty flying.



# OPERATING REVENUE OF CANADIAN AIR CARRIERS 1963-1964



# REVENUE GOODS CARRIED BY CANADIAN AIR CARRIERS 1963-1964



## REVIEW OF JANUARY OPERATIONS

Increases were reported in the transportation of both revenue passengers and goods by Canadian Air Carriers during the month of January compared with January 1963. Passengers carried totalled 395,177, an increase of 1.3 per cent. Goods transported rose to 8,276 tons, an increase of 7.2 per cent. The revenue miles flown were up 0.9 per cent to 7,059,536. Passenger-miles and goods-ton-miles performed by Canadian carriers in unit toll and bulk services totalled 281,846,881 and 6,544,830 respectively. Unit toll services accounted for 94.9 per cent of the total passenger-miles and 89.7 per cent of the total goods-ton-miles.

January operating revenues showed a 4.1 per cent increase over January 1963 to \$21,223,443 while operating expenses rose 7.6 per cent to \$23,864,291, thus an operating loss of \$2,640,848 was reported. This compares with a loss of \$1,803,184 for the same month the previous year. A net deficit after provision for income taxes of \$3,547,163 was reported as against a deficit of \$2,722,544 in January, 1963.

Revenue hours reported flown by 14 carriers who operated 117 helicopters exclusively amounted to 845. Hours reported flown by 15 helicopters operated by 8 fixed wing carriers totalled 121. Operating revenues reported by helicopter carriers amounted to \$122,157 while the operating expenses amounted to \$279,568.

In January the six scheduled carriers transported 371,848 revenue passengers, 94.0 per cent of all passengers carried by all Canadian carriers. They also carried 6,050 tons of revenue goods, 73.1 per cent of the total. Operating revenues amounted to \$19,867,742 or 93.9 per cent of all Canadian revenues. Operating expenses amounted to \$22,140,850 or 93.2 per cent of the total. Comparable figures for January 1963 are: passengers 93.6 per cent, goods 68.0 per cent, revenues 92.6 per cent and expenses 91.7 per cent.

Revenue passenger-miles performed by Canadian Carriers in international unit toll service in January amounted to 115,893,713 or 45 per cent of their total unit toll passenger-miles performed. The division of international services by area was as follows:

| <u>Area</u>                    | <u>Percentage</u> |
|--------------------------------|-------------------|
| Trans-Border .....             | 22.3              |
| Trans-Atlantic and Polar ..... | 30.4              |
| Southern .....                 | 28.7              |
| Pacific and Orient .....       | 18.6              |
| Total .....                    | 100.0             |

### Foreign Carriers

Foreign carriers licensed to operate in Canada transported 64,505 revenue passengers during January, an increase of 10.3 per cent over January 1963. Revenue goods carried totalled 1,012 tons, an increase of 7.3 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

January 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                  | 16                     | 51        | 67        | 73                      | 10                     | 9                         | 92                       |              |
| Revenue transportation services:     |                    |                        |           |           |                         |                        |                           |                          |              |
| Unit toll:                           |                    |                        |           |           |                         |                        |                           |                          |              |
| Departures ..... No.                 | 16,423             | 2,060                  | 609       | 2,669     | 19,092                  | ..                     | ..                        | ..                       |              |
| Hours flown ..... "                  | 20,392             | 1,932                  | 378       | 2,310     | 22,702                  | 331                    | 822                       | 23,855                   |              |
| Miles scheduled ..... "              | 5,244,665(4)       | ...                    | ...       | ...       | 5,244,665(4)            | 84,570                 | 321,773                   | 5,651,008                |              |
| Miles flown:                         |                    |                        |           |           |                         |                        |                           |                          |              |
| Scheduled ..... "                    | 5,304,351(4)       | ...                    | ...       | ...       | 5,304,351(4)            | 80,492                 | 336,142                   | 5,720,985                |              |
| Non-scheduled ..... "                | 255,027(4)         | 245,705                | 46,416    | 292,121   | 547,148                 | -                      | -                         | 547,148                  |              |
| Totals ..... "                       | 5,559,378          | 245,705                | 46,416    | 292,121   | 5,851,499               | 80,492                 | 336,142                   | 6,268,133                |              |
| Passengers carried ..... "           | 363,613            | 6,711                  | 2,689     | 9,400     | 373,013                 | 48,116                 | 14,986                    | 436,115                  |              |
| Goods carried:                       |                    |                        |           |           |                         |                        |                           |                          |              |
| Cargo ..... lb.                      | 7,326,678          | 413,747                | 129,195   | 542,942   | 7,869,620               | 696,699                | 1,057,482                 | 9,734,216                |              |
| Excess baggage ..... "               | 95,468             | 2,696                  | 12,251    | 14,947    | 110,415                 | -                      | -                         | -                        |              |
| Mail ..... "                         | 3,626,987          | 133,400                | 16,683    | 150,083   | 3,777,070               | 139,052                | 116,099                   | 4,032,221                |              |
| Totals ..... "                       | 11,049,133         | 549,843                | 158,129   | 707,972   | 11,757,105              | 835,751                | 1,173,581                 | 13,766,437               |              |
| Passenger-miles ..... No.            | 266,193,010        | 1,231,079              | 107,287   | 1,338,366 | 267,531,376✓            | 2,058,089              | 10,477,537                | 280,067,002              |              |
| Goods ton-miles:                     |                    |                        |           |           |                         |                        |                           |                          |              |
| Cargo ..... "                        | 4,094,932          | 64,123                 | 6,667     | 70,790    | 4,165,722✓              | 15,448                 | 391,024                   | 4,782,560                |              |
| Excess baggage ..... "               | 208,735            | 1,432                  | 199       | 1,631     | 210,366✓                | -                      | -                         | -                        |              |
| Mail ..... "                         | 1,472,069          | 24,148                 | 652       | 24,800    | 1,496,869✓              | 3,160                  | 46,708                    | 1,546,737                |              |
| Totals ..... "                       | 5,775,736          | 89,703                 | 7,518     | 97,221    | 5,872,957               | 18,608                 | 437,732                   | 6,329,297                |              |
| Bulk:                                |                    |                        |           |           |                         |                        |                           |                          |              |
| Departures ..... "                   | 1,524              | 3,031                  | 6,063     | 9,094     | 10,618                  | ..                     | ..                        | ..                       |              |
| Hours flown ..... "                  | 2,254              | 3,406                  | 3,955     | 7,361     | 9,615✓                  | -                      | 53                        | 9,668                    |              |
| Miles flown ..... "                  | 401,735            | 382,518                | 423,784   | 806,302   | 1,208,037               | 36                     | 15,550                    | 1,223,623                |              |
| Passengers carried ..... "           | 8,235              | 6,300                  | 7,629     | 13,929    | 22,164                  | 83                     | 1,320                     | 23,567                   |              |
| Freight carried ..... lb.            | 1,050,458          | 2,489,646              | 1,255,237 | 3,744,883 | 4,795,341               | -                      | 14,300                    | 4,809,641                |              |
| Passenger-miles(6) ..... No.         | 13,897,570         | 363,802                | 54,133    | 417,935   | 14,315,505              | ..                     | ..                        | ..                       |              |
| Goods ton-miles(6) ..... "           | 377,439            | 251,784                | 42,650    | 294,434   | 671,873                 | ..                     | ..                        | ..                       |              |
| Revenue non-transportation services: |                    |                        |           |           |                         |                        |                           |                          |              |
| Specialty flying - Hours flown "     | 155                | 588                    | 2,784     | 3,372     | 3,527                   | -                      | -                         | 3,527                    |              |

See footnotes at end of table.



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

January 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.                | 17,947                 | 5,091     | 6,672     | 11,763                  | 29,710                 | ..                        | ..                       | ..           |
| Hours flown .....                  | "                  | 22,801                 | 5,926     | 7,117     | 13,043                  | 35,844                 | 331                       | 875                      | 37,050       |
| Miles flown .....                  | "                  | 5,961,113              | 628,223   | 470,200   | 1,098,423               | 7,059,536              | 80,528                    | 351,692                  | 7,491,756    |
| Passengers carried .....           | "                  | 371,848                | 13,011    | 10,318    | 23,329                  | 395,177                | 48,199                    | 16,306                   | 459,682      |
| Cargo carried .....                | lb.                | 8,377,136              | 2,903,393 | 1,384,432 | 4,287,825               | 12,664,961             | 696,699(8)                | 1,071,782                | 14,433,442   |
| Goods carried .....                | "                  | 12,099,591             | 3,039,489 | 1,413,366 | 4,452,855               | 16,552,446             | 835,751                   | 1,187,881                | 18,576,078   |
| Passenger-miles(6) .....           | No.                | 280,090,580            | 1,594,881 | 161,420   | 1,756,301               | 281,846,881            | 2,058,089                 | ..                       | ..           |
| Goods ton-miles(6) .....           | "                  | 6,153,175              | 341,487   | 50,168    | 391,655                 | 6,544,830              | 18,608                    | ..                       | ..           |
| Non-revenue:                       |                    |                        |           |           |                         |                        |                           |                          |              |
| Hours flown .....                  | "                  | 600                    | 319       | -         | 319                     | 919                    | 2                         | -                        | 921          |
| Passengers carried .....           | "                  | ..                     | 83        | -         | 83                      | ..                     | 672                       | 332                      | ..           |
| Goods carried .....                | lb.                | ..                     | 34,558    | -         | 34,558                  | ..                     | 9,017                     | 70,640                   | ..           |
| Passenger-miles .....              | No.                | ..                     | 76,008    | -         | 76,008                  | ..                     | 29,563                    | 244,192                  | ..           |
| Goods ton-miles .....              | "                  | ..                     | 3,372     | -         | 3,372                   | ..                     | 195                       | 23,746                   | ..           |
| Fuel and oil consumed:             |                    |                        |           |           |                         |                        |                           |                          |              |
| Turbo fuel - Quantity .....        | gal.               | 14,559,479             | -         | 6,111     | 6,111                   | 14,565,590             | 110,792                   | 2,210,995                | 16,887,377   |
| Cost .....                         | \$                 | 2,112,895              | -         | 1,785     | 1,785                   | 2,114,680              | 14,957                    | 351,810                  | 2,481,447    |
| Gasoline - Quantity .....          | gal.               | 825,119                | 285,536   | 113,312   | 398,848                 | 1,223,967              | 57,053                    | 138,907                  | 1,419,927    |
| Cost .....                         | \$                 | 275,006                | 79,216    | 49,946    | 129,162                 | 404,168                | 13,901                    | 36,246                   | 454,315      |
| Turbo oil - Quantity .....         | gal.               | 3,245                  | -         | 1         | 1                       | 3,246                  | 17                        | 103                      | 3,366        |
| Cost .....                         | \$                 | 28,181                 | -         | 15        | 15                      | 28,196                 | 96                        | 866                      | 29,158       |
| Other oil - Quantity .....         | gal.               | 10,490                 | 3,494     | 1,811     | 5,305                   | 15,795                 | 1,047                     | 551                      | 17,393       |
| Cost .....                         | \$                 | 11,933                 | 4,636     | 2,526     | 7,162                   | 19,095                 | 720                       | 417                      | 20,232       |
| Average number of employees:       |                    |                        |           |           |                         |                        |                           |                          |              |
| Pilots and co-pilots .....         | No.                | 1,001                  | 172       | 210       | 382                     | 1,383                  | ..                        | ..                       | ..           |
| Other flight personnel .....       | "                  | 1,010                  | 19        | 26        | 45                      | 1,055                  | ..                        | ..                       | ..           |
| General management .....           | "                  | 337                    | 50        | 72        | 122                     | 459                    | ..                        | ..                       | ..           |
| Maintenance labour .....           | "                  | 3,540                  | 235       | 196       | 431                     | 3,971                  | ..                        | ..                       | ..           |
| Aircraft & traffic servicing ..... | "                  | 5,054                  | 108       | 47        | 155                     | 5,209                  | ..                        | ..                       | ..           |
| Other personnel .....              | "                  | 4,373                  | 199       | 98        | 297                     | 4,670                  | ..                        | ..                       | ..           |
| Totals .....                       | "                  | 15,315                 | 783       | 649       | 1,432                   | 16,747                 | 225                       | 729                      | 17,701       |
| Salaries and wages paid:           |                    |                        |           |           |                         |                        |                           |                          |              |
| Pilots and co-pilots .....         | \$                 | 1,177,678              | 116,545   | 110,661   | 227,206                 | 1,404,884              | ..                        | ..                       | ..           |
| Other flight personnel .....       | \$                 | 446,437                | 12,156    | 9,016     | 21,172                  | 467,609                | ..                        | ..                       | ..           |
| General management .....           | \$                 | 282,527                | 38,621    | 40,047    | 78,668                  | 361,195                | ..                        | ..                       | ..           |
| Maintenance labour .....           | \$                 | 1,849,631              | 95,599    | 77,797    | 173,396                 | 2,023,027              | ..                        | ..                       | ..           |
| Aircraft & traffic servicing ..... | \$                 | 2,461,369              | 39,841    | 14,347    | 54,188                  | 2,515,557              | ..                        | ..                       | ..           |
| Other personnel .....              | \$                 | 2,221,143              | 74,568    | 32,367    | 106,935                 | 2,328,078              | ..                        | ..                       | ..           |
| Totals .....                       | \$                 | 8,438,785              | 377,330   | 284,235   | 661,565                 | 9,100,350              | 133,050                   | 332,454                  | 9,265,854    |

- (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

January 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 .....                      | 15,387,793         | 759,863     | 16,147,656    | 163,006                | 30,105      | 193,111     | 16,340,767    |              |
| Express .....                         | 318,583            | 11,378      | 329,961       | 6,750                  | 2,182       | 8,932       | 338,893       |              |
| Freight .....                         | 944,378            | 166,780     | 1,111,158     | 60,836                 | 10,339      | 71,175      | 1,182,333     |              |
| Excess baggage .....                  | 99,777             | 13,977      | 113,754       | 2,880                  | 723         | 3,603       | 117,357       |              |
| Mail .....                            | 1,130,405          | 134,611     | 1,265,016     | 52,934                 | 3,487       | 56,421      | 1,321,437     |              |
| Total unit toll transportation ..     | 17,880,936         | 1,086,609   | 18,967,545    | 286,406                | 46,836      | 333,242     | 19,300,787    |              |
| Bulk transportation .....             | 357,688            | 340,080     | 697,768       | 446,058                | 306,003     | 752,061     | 1,449,829     |              |
| Total transportation .....            | 18,238,624         | 1,426,689   | 19,665,313    | 732,464                | 352,839     | 1,085,303   | 20,750,616    |              |
| Other flying services .....           | 2,721              | 15,472      | 18,193        | 73,939                 | 104,845     | 178,784     | 196,977       |              |
| Total flying services .....           | 18,241,345         | 1,442,161   | 19,683,506    | 806,403                | 457,684     | 1,264,087   | 20,947,593    |              |
| Non-flying services .....             | 176,492            | 7,744       | 184,236       | 34,909                 | 56,705      | 91,614      | 275,850       |              |
| Total operating revenues .....        | 18,417,837         | 1,449,905   | 19,867,742    | 841,312                | 514,389     | 1,355,701   | 21,223,443    |              |
| Operating expenses:                   |                    |             |               |                        |             |             |               |              |
| Flying operations .....               | 4,967,697          | 544,120     | 5,511,817     | 412,744                | 220,382     | 633,126     | 6,144,943     |              |
| Maintenance .....                     | 4,597,781          | 500,473     | 5,098,254     | 316,143                | 177,883     | 494,026     | 5,592,280     |              |
| General services and administration:  |                    |             |               |                        |             |             |               |              |
| Passenger service .....               | 1,448,277          | 47,753      | 1,496,030     | ..                     | ..          | ..          | ..            |              |
| Aircraft and traffic servicing ....   | 3,042,234          | 238,691     | 3,280,925     | ..                     | ..          | ..          | ..            |              |
| Promotion and sales .....             | 3,180,887          | 119,183     | 3,300,070     | ..                     | ..          | ..          | ..            |              |
| General administration .....          | 899,757            | 94,921      | 994,678       | ..                     | ..          | ..          | ..            |              |
| Totals .....                          | 8,571,155          | 500,548     | 9,071,703     | 248,451                | 131,515     | 379,966     | 9,451,669     |              |
| Depreciation and amortization .....   | 2,336,158          | 122,918     | 2,459,076     | 136,355                | 79,968      | 216,323     | 2,675,399     |              |
| Total operating expenses .....        | 20,472,791         | 1,668,059   | 22,140,850    | 1,113,693              | 609,748     | 1,723,441   | 23,864,291    |              |
| Operating income (loss) .....         | Dr. 2,054,954      | Dr. 218,154 | Dr. 2,273,108 | Dr. 272,381            | Dr. 95,359  | Dr. 367,740 | Dr. 2,640,848 |              |
| Non-operating income - Net:           |                    |             |               |                        |             |             |               |              |
| Capital gains and losses .....        | -                  | 2,378       | 2,378         | 1,075                  | 25          | 1,100       | 3,478         |              |
| Interest and discounts .....          | 136,618            | 134         | 136,752       | 1,862                  | -           | 1,862       | 138,614       |              |
| Miscellaneous non-operating income .. | 21,966             | 182         | 22,148        | 7,352                  | 224         | 7,576       | 29,724        |              |
| Income before interest expense .....  | Dr. 1,896,370      | Dr. 215,460 | Dr. 2,111,830 | Dr. 262,092            | Dr. 95,110  | Dr. 357,202 | Dr. 2,469,032 |              |
| Interest expense .....                | 974,633            | 57,876      | 1,032,509     | 28,585                 | 11,079      | 39,664      | 1,072,173     |              |
| Income before income taxes .....      | Dr. 2,871,003      | Dr. 273,336 | Dr. 3,144,339 | Dr. 290,677            | Dr. 106,189 | Dr. 396,866 | Dr. 3,541,205 |              |
| Provision for income taxes .....      | -                  | -           | -             | 2,765                  | 3,193       | 5,958       | 5,958         |              |
| Net income after income taxes .....   | Dr. 2,871,003      | Dr. 273,336 | Dr. 3,144,339 | Dr. 293,442            | Dr. 109,382 | Dr. 402,824 | Dr. 3,547,163 |              |

(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

January 1964

|                                       | Canadian<br>Pacific<br>Air Lines | Eastern<br>Provincial<br>Airways<br>(1963) | Pacific<br>Western<br>Airlines | Quebecair<br>Inc. | Transair<br>Ltd. | Trans-<br>Canada<br>Air Lines | Total         | Year<br>to<br>date |
|---------------------------------------|----------------------------------|--|--------------------------------|-------------------|------------------|-------------------------------|---------------|--------------------|
|                                       | dollars                          |  |                                |                   |                  |                               |               |                    |
| Operating revenues:                   |                                  |  |                                |                   |                  |                               |               |                    |
| Unit toll transportation:             |                                  |  |                                |                   |                  |                               |               |                    |
| Passengers .....                      | 3,618,812                        | 162,621                                    | 241,938                        | 217,995           | 137,309          | 11,768,981                    | 16,147,656    |                    |
| Express .....                         | 14,025                           | 722  | 7,946                          | -                 | 2,710            | 304,558                       | 329,961       |                    |
| Freight .....                         | 199,344                          | 56,395                                     | 60,304                         | 31,282            | 18,799           | 745,034                       | 1,111,158     |                    |
| Excess baggage .....                  | 35,005                           | 1,484                                      | 5,727                          | 5,448             | 1,318            | 64,772                        | 113,754       |                    |
| Mail .....                            | 210,535                          | 61,341                                     | 41,138                         | 5,753             | 26,379           | 919,870                       | 1,265,016     |                    |
| Total unit toll transportation ..     | 4,077,721                        | 282,563                                    | 357,053                        | 260,478           | 186,515          | 13,803,215                    | 18,967,545    |                    |
| Bulk transportation .....             | 104,385                          | 63,303                                     | 113,010                        | 217               | 163,550          | 253,303                       | 697,768       |                    |
| Total transportation .....            | 4,182,106                        | 345,866                                    | 470,063                        | 260,695           | 350,065          | 14,056,518                    | 19,665,313    |                    |
| Other flying services .....           | -                                | 15,472                                     | -                              | -                 | -                | 2,721                         | 18,193        |                    |
| Total flying services .....           | 4,182,106                        | 361,338                                    | 470,063                        | 260,695           | 350,065          | 14,059,239                    | 19,683,506    |                    |
| Non-flying services .....             | 91,357                           | 5,210                                      | Dr. 952                        | 1,981             | 1,505            | 85,135                        | 184,236       |                    |
| Total operating revenues .....        | 4,273,463                        | 366,548                                    | 469,111                        | 262,676           | 351,570          | 14,144,374                    | 19,867,742    |                    |
| Operating expenses:                   |                                  |  |                                |                   |                  |                               |               |                    |
| Flying operations .....               | 1,712,448                        | 143,686                                    | 186,016                        | 72,794            | 141,624          | 3,255,249                     | 5,511,817     |                    |
| Maintenance .....                     | 724,467                          | 174,736                                    | 110,806                        | 74,767            | 140,164          | 3,873,314                     | 5,098,254     |                    |
| General services and administrations: |                                  |  |                                |                   |                  |                               |               |                    |
| Passenger service .....               | 390,758                          | 8,006                                      | 15,180                         | 8,879             | 15,688           | 1,057,519                     | 1,496,030     |                    |
| Aircraft and traffic servicing ....   | 539,752                          | 75,985                                     | 111,462                        | 30,959            | 20,285           | 2,502,482                     | 3,280,925     |                    |
| Promotion and sales .....             | 846,360                          | 13,625                                     | 16,372                         | 51,426            | 37,760           | 2,334,527                     | 3,300,070     |                    |
| General administration .....          | 172,372                          | 19,227                                     | 30,225                         | 26,642            | 18,827           | 727,385                       | 994,678       |                    |
| Totals .....                          | 1,949,242                        | 116,843                                    | 173,239                        | 117,906           | 92,560           | 6,621,913                     | 9,071,703     |                    |
| Depreciation and amortization .....   | 183,207                          | 42,041                                     | 27,493                         | 33,199            | 20,185           | 2,152,951                     | 2,459,076     |                    |
| Total operating expenses .....        | 4,569,364                        | 477,306                                    | 497,554                        | 298,666           | 394,533          | 15,903,427                    | 22,140,850    |                    |
| Operating income (loss) .....         | Dr. 295,901                      | Dr. 110,758                                | Dr. 28,443                     | Dr. 35,990        | Dr. 42,963       | Dr. 1,759,053                 | Dr. 2,273,108 |                    |
| Non-operating income - Net:           |                                  |  |                                |                   |                  |                               |               |                    |
| Capital gains and losses .....        | -                                | -  | 2,378                          | -                 | -                | -                             | 2,378         |                    |
| Interest and discounts .....          | 41,826                           | -  | -                              | 88                | 46               | 94,792                        | 136,752       |                    |
| Miscellaneous non-operating income .. | 19,184                           | -  | 50                             | 47                | 85               | 2,782                         | 22,148        |                    |
| Income before interest expense .....  | Dr. 234,891                      | Dr. 110,758                                | Dr. 26,015                     | Dr. 35,855        | Dr. 42,832       | Dr. 1,661,479                 | Dr. 2,111,830 |                    |
| Interest expense .....                | -                                | 27,078                                     | 11,802                         | 12,559            | 6,437            | 974,633                       | 1,032,509     |                    |
| Income before income taxes .....      | Dr. 234,891                      | Dr. 137,836                                | Dr. 37,817                     | Dr. 48,414        | Dr. 49,269       | Dr. 2,636,112                 | Dr. 3,144,339 |                    |
| Provision for income taxes .....      | -                                | -  | -                              | -                 | -                | -                             | -             |                    |
| Net income after income taxes .....   | Dr. 234,891                      | Dr. 137,836                                | Dr. 37,817                     | Dr. 48,414        | Dr. 49,269       | Dr. 2,636,112                 | Dr. 3,144,339 |                    |

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

January 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.                        | 1,743                  | 10,369      | 12,112                            | 1,099                       | 1,168             | 1,023            | 1,021     | 4,311       | 16,423      |
| Hours flown .....                                     | "                          | 3,488                  | 13,070      | 16,558                            | 811                         | 1,272             | 745              | 1,006     | 3,834       | 20,392      |
| Miles scheduled .....                                 | "                          | 1,176,394              | 3,671,743   | 4,848,137                         | 66,980                      | 173,077           | 71,876           | 84,595    | 396,528     | 5,244,665   |
| Miles flown:  |                            |                        |             |                                   |                             |                   |                  |           |             |             |
| Scheduled - Regular .....                             | "                          | 1,166,136              | 3,561,126   | 4,727,262                         | 49,699                      | 161,547           | 67,589           | 82,666    | 361,501     | 5,088,763   |
| Extra section .....                                   | "                          | 37,692                 | 149,166     | 186,858                           | 2,682                       | 11,530            | 6,793            | 7,725     | 28,730      | 215,588     |
| Non-scheduled .....                                   | "                          | 41,328                 | -           | 41,328                            | 85,045                      | 14,812            | 58,830           | 55,012    | 213,699     | 255,027     |
| Totals .....  | "                          | 1,245,156              | 3,710,292   | 4,955,448                         | 137,426                     | 187,889           | 133,212          | 145,403   | 603,930     | 5,559,378   |
| Ratio of regular miles flown to miles scheduled ..... |                            | 99.1                   | 97.0        | 97.5                              | 74.2                        | 93.3              | 94.0             | 97.7      | 91.2        | 97.0        |
| Passengers carried .....                              | No.                        | 38,605                 | 290,977     | 329,582                           | 8,973                       | 12,065            | 8,347            | 4,646     | 34,031      | 363,613     |
| Goods carried:  |                            |                        |             |                                   |                             |                   |                  |           |             |             |
| Freight .....   | lb.                        | 545,195                | 4,540,654   | 5,085,849                         | 590,507                     | 415,898           | 146,752          | 118,743   | 1,271,900   | 6,357,749   |
| Express .....   | "                          | 61,201                 | 868,518     | 929,719                           | 2,623                       | 25,566            | -                | 11,021    | 39,210      | 968,929     |
| Excess baggage .....                                  | "                          | 32,620                 | ..          | 32,620(2)                         | 8,604                       | 17,915            | 29,030           | 7,299     | 62,848      | 95,468(2)   |
| Mail .....  | "                          | 197,329                | 2,941,208   | 3,138,537                         | 198,213                     | 161,614           | 30,502           | 98,121    | 488,450     | 3,626,987   |
| Totals .....  | "                          | 836,345                | 8,350,380   | 9,186,725                         | 799,947                     | 620,993           | 206,284          | 235,184   | 1,862,408   | 11,049,133  |
| Passenger-miles:                                      |                            |                        |             |                                   |                             |                   |                  |           |             |             |
| Scheduled .....                                       | No.                        | 64,860,448             | 191,641,365 | 256,501,813                       | 477,514                     | 2,877,700         | 1,490,744        | 1,258,274 | 6,104,232   | 262,606,045 |
| Non-scheduled .....                                   | "                          | 842,022                | -           | 842,022                           | 1,321,317                   | 49,112            | 1,121,568        | 252,946   | 2,744,943   | 3,586,965   |
| Totals .....  | "                          | 65,702,470             | 191,641,365 | 257,343,835                       | 1,798,831                   | 2,926,812         | 2,612,312        | 1,511,220 | 8,849,175   | 266,193,010 |
| Available seat-miles on scheduled services .....      | "                          | 144,776,380            | 339,914,651 | 484,691,031                       | 1,275,231                   | 6,975,356         | 2,634,488        | 3,160,648 | 14,045,723  | 498,736,754 |
| Passenger load factor on scheduled services .....     |                            | 44.8                   | 56.4        | 52.4                              | 37.5                        | 41.3              | 56.6             | 39.8      | 43.5        | 52.7        |
| Goods ton-miles:                                      |                            |                        |             |                                   |                             |                   |                  |           |             |             |
| Freight - Scheduled .....                             | No.                        | 678,428                | 2,811,661   | 3,490,089                         | 76,295                      | 114,219           | 17,414           | 6,589     | 214,517     | 3,704,606   |
| Non-scheduled .....                                   | "                          | 1,656                  | -           | 1,656                             | 9,306                       | 1,027             | 9,495            | 11,923    | 31,751      | 33,407      |
| Totals .....  | "                          | 680,084                | 2,811,661   | 3,491,745                         | 85,601                      | 115,246           | 26,909           | 18,512    | 246,268     | 3,738,013   |
| Express - Scheduled .....                             | "                          | 15,722                 | 331,049     | 346,771                           | -                           | 6,504             | -                | 2,149     | 8,653       | 355,424     |
| Non-scheduled .....                                   | "                          | 546                    | -           | 546                               | 592                         | -                 | -                | 357       | 949         | 1,495       |
| Totals .....  | "                          | 16,268                 | 331,049     | 347,317                           | 592                         | 6,504             | -                | 2,506     | 9,602       | 356,919     |

See footnotes at end of table.



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

January 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. 40,809                 | 156,486                | 197,295     | 465                               | 2,997                       | 2,665             | 1,056            | 7,183      | 204,478     |
| Non-scheduled .....                               | " 60                       | -                      | 60          | 1,087                             | 38                          | 2,783             | 289              | 4,197      | 4,257       |
| Totals .....                                      | " 40,869                   | 156,486                | 197,355     | 1,552                             | 3,035                       | 5,448             | 1,345            | 11,380     | 208,735     |
| Mail - Scheduled .....                            | " 162,679                  | 1,225,778              | 1,388,457   | 9,586                             | 40,068                      | 2,291             | 5,293            | 57,238     | 1,445,695   |
| Non-scheduled .....                               | " 3,273                    | -                      | 3,273       | 14,191                            | 235                         | 1,447             | 7,228            | 23,101     | 26,374      |
| Totals .....                                      | " 165,952                  | 1,225,778              | 1,391,730   | 23,177                            | 40,303                      | 3,738             | 12,521           | 80,339     | 1,472,069   |
| Total - Scheduled .....                           | " 897,638                  | 4,524,974              | 5,422,612   | 86,346                            | 163,788                     | 22,370            | 15,087           | 287,591    | 5,710,203   |
| Non-scheduled .....                               | " 5,535                    | -                      | 5,535       | 25,176                            | 1,300                       | 13,725            | 19,797           | 59,998     | 65,533      |
| Totals .....                                      | " 903,173                  | 4,524,974              | 5,428,147   | 111,522                           | 165,088                     | 36,095            | 34,884           | 347,589    | 5,775,736   |
| Available ton-miles on scheduled services .....   | " 19,174,346               | 48,172,713             | 67,347,059  | 296,704                           | 913,738                     | 263,081           | 374,030          | 1,847,553  | 69,194,612  |
| Weight load factor on scheduled services(3) ..... | 38.5                       | 49.3                   | 46.1        | 53.7                              | 49.4                        | 65.1              | 37.7             | 48.6       | 46.2        |
| Bulk:   |                            |                        |             |                                   |                             |                   |                  |            |             |
| Departures .....                                  | No. 22                     | 69                     | 91          | 367                               | 851                         | 2                 | 213              | 1,433      | 1,524       |
| Hours flown .....                                 | " 137                      | 259                    | 396         | 464                               | 845                         | 1                 | 548              | 1,858      | 2,254       |
| Miles flown .....                                 | " 48,061                   | 116,884                | 164,945     | 38,913                            | 103,627                     | 102               | 94,148           | 236,790    | 401,735     |
| Passengers carried .....                          | " 717                      | 2,549                  | 3,266       | 2,413                             | 1,715                       | 28                | 813              | 4,969      | 8,235       |
| Freight carried .....                             | 1b. -                      | -                      | -           | 138,939                           | 380,321                     | -                 | 531,198          | 1,050,458  | 1,050,458   |
| Passenger-miles(4) .....                          | No. 3,007,808              | 8,824,292              | 11,832,100  | 165,261                           | 913,131                     | 1,428             | 985,650          | 2,065,470  | 13,897,570  |
| Goods ton-miles(4) .....                          | " -                        | -                      | -           | 15,273                            | 45,354                      | -                 | 316,812          | 377,439    | 377,439     |
| Revenue non-transportation services:              |                            |                        |             |                                   |                             |                   |                  |            |             |
| Specialty flying - Hours flown .....              | " -                        | 10                     | 10          | 145                               | -                           | -                 | -                | 145        | 155         |
| Total - All services:                             |                            |                        |             |                                   |                             |                   |                  |            |             |
| Traffic, hours and miles:(5)                      |                            |                        |             |                                   |                             |                   |                  |            |             |
| Revenue:  |                            |                        |             |                                   |                             |                   |                  |            |             |
| Departures .....                                  | " 1,765                    | 10,438                 | 12,203      | 1,466                             | 2,019                       | 1,025             | 1,234            | 5,744      | 17,947      |
| Hours flown .....                                 | " 3,625                    | 13,339                 | 16,964      | 1,420                             | 2,117                       | 746               | 1,554            | 5,837      | 22,801      |
| Miles flown .....                                 | " 1,293,217                | 3,827,176              | 5,120,393   | 176,339                           | 291,516                     | 133,314           | 239,551          | 840,720    | 5,961,113   |
| Passengers carried .....                          | " 39,322                   | 293,526                | 332,848     | 11,386                            | 13,780                      | 8,375             | 5,459            | 39,000     | 371,848     |
| Cargo carried .....                               | 1b. 606,396                | 5,409,172              | 6,015,568   | 732,069                           | 821,785                     | 146,752           | 660,962          | 2,361,568  | 8,377,136   |
| Goods carried .....                               | " 836,345                  | 8,350,380              | 9,186,725   | 938,886                           | 1,001,314                   | 206,284           | 766,382          | 2,912,866  | 12,099,591  |
| Passenger-miles(4) .....                          | No. 68,710,278             | 200,465,657            | 269,175,935 | 1,964,092                         | 3,839,943                   | 2,613,740         | 2,496,870        | 10,914,645 | 280,090,580 |
| Goods ton-miles(4) .....                          | " 903,173                  | 4,524,974              | 5,428,147   | 126,795                           | 210,442                     | 36,095            | 351,696          | 725,028    | 6,153,175   |

See footnotes at end of table.

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

January 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. 78                     | 320                    | 398        | 81                                | 49                          | 26                | 46               | 202      | 600         |
| Passengers carried .....                 | " 1,435                    | ..                     | ..         | 293                               | 329                         | 180               | 121              | 923      | ..          |
| Goods carried .....                      | 1b. 113,851                | ..                     | ..         | -                                 | 31,434                      | -                 | 21,906           | 53,340   | ..          |
| Passenger-miles .....                    | No. 2,766,178              | 10,648,509             | 13,414,687 | 75,222                            | ..                          | ..                | 48,865           | ..       | ..          |
| Goods ton-miles .....                    | " 163,898                  | 279,191                | 443,089    | -                                 | ..                          | -                 | 6,660            | ..       | ..          |
| Fuel and oil consumed:                   |                            |                        |            |                                   |                             |                   |                  |          |             |
| Turbo fuel - Quantity .....              | gal. 3,488,120             | 10,791,227             | 14,279,347 | 94,930                            | -                           | 130,611           | 54,591           | 280,132  | 14,559,479  |
| Cost .....                               | \$ 593,934                 | 1,455,071              | 2,049,005  | 22,783                            | -                           | 28,495            | 12,612           | 63,890   | 2,112,895   |
| Gasoline - Quantity .....                | gal. 368,972               | -                      | 368,972    | 79,281                            | 207,625                     | 14,088            | 155,153          | 456,147  | 825,119     |
| Cost .....                               | \$ 105,786                 | -                      | 105,786    | 29,448                            | 77,740                      | 4,486             | 57,546           | 169,220  | 275,006     |
| Turbo oil - Quantity .....               | gal. 120                   | 2,630                  | 2,750      | 47                                | -                           | 448               | -                | 495      | 3,245       |
| Cost .....                               | \$ 335                     | 26,749                 | 27,084     | 594                               | -                           | 503               | -                | 1,097    | 28,181      |
| Other oil - Quantity .....               | gal. 4,558                 | -                      | 4,558      | 1,217                             | 2,146                       | 349               | 2,220            | 5,932    | 10,490      |
| Cost .....                               | \$ 5,854                   | -                      | 5,854      | 1,640                             | 1,868                       | 351               | 2,220            | 6,079    | 11,933      |
| Average number of employees:             |                            |                        |            |                                   |                             |                   |                  |          |             |
| Pilots and co-pilots .....               | No. 210                    | 591                    | 801        | 55                                | 69                          | 25                | 51               | 200      | 1,001       |
| Other flight personnel .....             | " 268                      | 682                    | 950        | -                                 | 24                          | 11                | 25               | 60       | 1,010       |
| General management .....                 | " 122                      | 64                     | 186        | 44                                | 47                          | 49                | 11               | 151      | 337         |
| Maintenance labour .....                 | " 558                      | 2,484                  | 3,042      | 148                               | 175                         | 63                | 112              | 498      | 3,540       |
| Aircraft and traffic servicing .....     | " 828                      | 3,860                  | 4,688      | 88                                | 91                          | 111               | 76               | 366      | 5,054       |
| Other personnel .....                    | " 641                      | 3,659                  | 4,300      | -                                 | 12                          | 9                 | 52               | 73       | 4,373       |
| Total employees .....                    | " 2,627                    | 11,340                 | 13,967     | 335                               | 418                         | 268               | 327              | 1,348    | 15,315      |
| Salaries and wages:                      |                            |                        |            |                                   |                             |                   |                  |          |             |
| Pilots and co-pilots .....               | \$ 264,695                 | 758,941                | 1,023,636  | 37,935                            | 54,228                      | 21,519            | 40,360           | 154,042  | 1,177,678   |
| Other flight personnel .....             | \$ 130,908                 | 296,312                | 427,220    | -                                 | 8,726                       | 3,524             | 6,967            | 19,217   | 446,437     |
| General management .....                 | \$ 101,008                 | 107,614                | 208,622    | 20,025                            | 19,996                      | 20,103            | 13,781           | 73,905   | 282,527     |
| Maintenance labour .....                 | \$ 267,219                 | 1,347,168              | 1,614,387  | 73,172                            | 83,148                      | 31,571            | 47,353           | 235,444  | 1,849,631   |
| Aircraft and traffic servicing .....     | \$ 340,013                 | 1,969,156              | 2,309,169  | 32,149                            | 51,414                      | 38,893            | 29,744           | 152,200  | 2,461,369   |
| Other personnel .....                    | \$ 253,695                 | 1,946,061              | 2,199,756  | -                                 | 4,173                       | 4,819             | 12,395           | 21,387   | 2,221,143   |
| Total salaries and wages .....           | \$ 1,357,538               | 6,425,252              | 7,782,790  | 163,281                           | 221,685                     | 120,429           | 150,600          | 655,995  | 8,438,785   |

(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

January 1964

|                                | Canadian<br>Pacific<br>Air Lines | Eastern<br>Provincial<br>Airways<br>(1963) | Pacific<br>Western<br>Airlines | Quebecair<br>Inc. | Transair<br>Ltd. | Trans-<br>Canada<br>Air Lines | Total     |
|--------------------------------|----------------------------------|--|--------------------------------|-------------------|------------------|-------------------------------|-----------|
| <b>Passengers carried:</b>     |                                  |  |                                |                   |                  |                               |           |
| Originated .....               | No. 32,395                       | 7,214                                      | 11,519                         | 8,347             | 4,102            | 249,221                       | 312,798   |
| Domestic interline .....       | " 2,798                          | 1,671                                      | -                              | -                 | -                | 41,756                        | 49,401    |
| Foreign interline .....        | " 3,176                          | -  | -                              | -                 | -                | -                             | -         |
| Totals(2) .....                | " 38,369                         | 8,885                                      | 11,519                         | 8,347             | 4,102            | 290,977                       | 362,199   |
| <b>Express carried:</b>        |                                  |  |                                |                   |                  |                               |           |
| Originated .....               | 1b. 61,201                       | 2,623                                      | 25,566                         | -                 | 11,021           | 868,518                       | 968,929   |
| Domestic interline .....       | " -                              | -  | -                              | -                 | -                | -                             | -         |
| Foreign interline .....        | " -                              | -  | -                              | -                 | -                | -                             | -         |
| Totals(2) .....                | " 61,201                         | 2,623                                      | 25,566                         | -                 | 11,021           | 868,518                       | 968,929   |
| <b>Freight carried:</b>        |                                  |  |                                |                   |                  |                               |           |
| Originated .....               | " 463,888                        | 590,507                                    | 393,658                        | 146,752           | 47,350           | 4,540,654                     | 6,182,809 |
| Domestic interline .....       | " 15,301                         | -  | -                              | -                 | -                | -                             | 15,301    |
| Foreign interline .....        | " 23,849                         | -  | -                              | -                 | -                | -                             | 23,849    |
| Totals(2) .....                | " 503,038                        | 590,507                                    | 393,658                        | 146,752           | 47,350           | 4,540,654                     | 6,221,959 |
| <b>Excess baggage carried:</b> |                                  |  |                                |                   |                  |                               |           |
| Originated .....               | " 32,620                         | 8,604                                      | 17,443                         | 29,030            | 5,069            | ..                            | ..        |
| Domestic interline .....       | " -                              | -  | -                              | -                 | -                | ..                            | ..        |
| Foreign interline .....        | " -                              | -  | -                              | -                 | -                | ..                            | ..        |
| Totals(2) .....                | " 32,620                         | 8,604                                      | 17,443                         | 29,030            | 5,069            | ..                            | ..        |
| <b>Mail carried:</b>           |                                  |  |                                |                   |                  |                               |           |
| Originated .....               | " 197,329                        | 137,756                                    | 156,397                        | 30,502            | 27,018           | 2,941,208                     | 3,490,210 |
| Domestic interline .....       | " -                              | -  | -                              | -                 | -                | -                             | -         |
| Foreign interline .....        | " -                              | -  | -                              | -                 | -                | -                             | -         |
| Totals(2) .....                | " 197,329                        | 137,756                                    | 156,397                        | 30,502            | 27,018           | 2,941,208                     | 3,490,210 |

(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

January 1964

|  | Trans-<br>Border<br>Services | Trans-<br>Atlantic<br>and Polar<br>Services | Southern<br>Services | Pacific<br>and<br>Orient<br>Services | Total<br>International<br>Services | Domestic<br>Services | Grand<br>total |
|--|------------------------------|---|----------------------|--------------------------------------|------------------------------------|----------------------|----------------|
| Unit toll:   |                              |   |                      |                                      |                                    |                      |                |
| Departures .....   | No. 1,546                    | 366   | 414                  | 136                                  | 2,462                              | 9,650                | 12,112         |
| Hours flown .....  | " 2,104                      | 1,287                                       | 1,171                | 882                                  | 5,444                              | 11,114               | 16,558         |
| Miles scheduled .....                                    | " 514,046                    | 575,730                                     | 457,224              | 361,727                              | 1,908,727                          | 2,939,410            | 4,848,137      |
| Miles flown:   |                              |   |                      |                                      |                                    |                      |                |
| Scheduled - Regular .....                                | " 473,669                    | 566,269                                     | 456,345              | 361,727                              | 1,858,010                          | 2,869,252            | 4,727,262      |
| Extra sections .....                                     | " 23,352                     | 6,666                                       | 60,451               | 24,903                               | 115,372                            | 71,486               | 186,858        |
| Non-scheduled .....                                      | " -                          | -   | -                    | -                                    | -                                  | 41,328               | 41,328         |
| Totals .....   | " 497,021                    | 572,935                                     | 516,796              | 386,630                              | 1,973,382                          | 2,982,066            | 4,955,448      |
| Ratio of regular miles flown to miles<br>scheduled ..... | 92.1                         | 98.5  | 99.8                 | 100.0                                | 97.4                               | 97.6                 | 97.5           |
| Passengers carried .....                                 | No. ...                      | ...   | ...                  | ...                                  | 111,162                            | 218,420              | 329,582        |
| Cargo carried .....                                      | lb. ...                      | ...   | ...                  | ...                                  | 2,638,386                          | 3,377,182            | 6,015,568      |
| Mail carried .....                                       | " ...                        | ...   | ...                  | ...                                  | 412,129                            | 2,726,408            | 3,138,537      |
| Passenger-miles .....                                    | No. 25,808,204               | 35,229,412                                  | 33,276,679           | 21,579,418                           | 115,893,713                        | 141,450,122          | 257,343,835    |
| Available seat-miles on scheduled services               | " 42,537,649                 | 74,044,128                                  | 67,335,863           | 49,217,466                           | 233,135,106                        | 251,555,925          | 484,691,031    |
| Passenger load factor on scheduled services              | 60.7                         | 47.6  | 49.4                 | 43.8                                 | 49.7                               | 56.2                 | 53.1           |
| Goods ton-miles:   |                              |   |                      |                                      |                                    |                      |                |
| Express .....  | No. 57,736                   | -   | -                    | -                                    | 57,736                             | 289,581              | 347,317        |
| Freight .....  | " 248,361                    | 941,282                                     | 290,138              | 233,892                              | 1,713,673                          | 1,778,072            | 3,491,745      |
| Excess baggage .....                                     | " 20,880                     | 30,831                                      | 32,620               | 11,614                               | 95,945                             | 101,410              | 197,355        |
| Mail .....   | " 36,853                     | 236,061                                     | 38,604               | 84,171                               | 395,689                            | 996,041              | 1,391,730      |
| Totals .....   | " 363,830                    | 1,208,174                                   | 361,362              | 329,677                              | 2,263,043                          | 3,165,104            | 5,428,147      |
| Available ton-miles on scheduled service ....            | " 5,213,823                  | 10,458,541                                  | 9,364,933            | 6,393,707                            | 31,431,004                         | 35,916,055           | 67,347,059     |
| Weight load factor on scheduled services(1)              | 56.5                         | 45.2  | 39.4                 | 38.9                                 | 44.1                               | 48.4                 | 46.3           |
| Bulk:  |                              |   |                      |                                      |                                    |                      |                |
| Departures .....   | No. ..                       | ..  | 8                    | -                                    | 166                                | ...                  | ...            |
| Hours flown .....  | " 134                        | 397   | 56                   | -                                    | 587                                | ...                  | ...            |
| Miles flown .....  | " 29,940                     | 158,195                                     | 13,452               | -                                    | 191,587                            | ...                  | ...            |
| Passengers carried .....                                 | " ..                         | ..  | 260                  | -                                    | 4,373                              | ...                  | ...            |
| Goods carried .....                                      | lb. -                        | 20,631                                      | -                    | -                                    | 20,631                             | ...                  | ...            |
| Passenger-miles(2) .....                                 | No. ..                       | ..  | 700,525              | -                                    | 12,303,764                         | ...                  | ...            |
| Goods ton-miles(2) .....                                 | " -                          | 1,476                                       | -                    | -                                    | 1,476                              | ...                  | ...            |
| Total:   |                              |   |                      |                                      |                                    |                      |                |
| Departures .....   | " ..                         | ..  | 422                  | 136                                  | 2,628                              | ...                  | ...            |
| Hours flown .....  | " 2,238                      | 1,684                                       | 1,227                | 882                                  | 6,031                              | ...                  | ...            |
| Miles flown .....  | " 526,961                    | 731,130                                     | 530,248              | 386,630                              | 2,164,969                          | ...                  | ...            |
| Passengers carried .....                                 | " ..                         | ..  | ...                  | ...                                  | 115,535                            | ...                  | ...            |
| Goods carried .....                                      | lb. -                        | ..  | -                    | ...                                  | 2,659,017                          | ...                  | ...            |
| Passenger-miles(2) .....                                 | No. ..                       | ..  | 33,977,204           | ...                                  | 128,197,477                        | ...                  | ...            |
| Goods ton-miles(2) .....                                 | " 363,830                    | 1,209,650                                   | 361,362              | 329,677                              | 2,264,519                          | ...                  | ...            |

(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)  
January 1964

|  | United States              |                 |           | Europe                    |                 |           |
|--|----------------------------|-----------------|-----------|---------------------------|-----------------|-----------|
|  | To                         | From            | Total     | To                        | From            | Total     |
| Passengers carried:                          |                            |                 |           |                           |                 |           |
| Unit toll ..... No.                          | 66,353                     | 67,406          | 133,759   | 8,005                     | 11,825          | 19,830    |
| Bulk ..... "                                 | 206                        | 156             | 362       | 879                       | 3,332           | 4,211     |
| Totals ..... "                               | 66,559                     | 67,562          | 134,121   | 8,884                     | 15,157          | 24,041    |
| Freight, express and excess baggage carried: |                            |                 |           |                           |                 |           |
| Unit toll ..... 1b.                          | 439,205                    | 2,021,775       | 2,460,980 | 566,257                   | 1,007,228       | 1,573,485 |
| Bulk ..... "                                 | -                          | -               | -         | 14,300                    | -               | 14,300    |
| Totals ..... "                               | 439,205                    | 2,021,775       | 2,460,980 | 580,557                   | 1,007,228       | 1,587,785 |
| Mail carried (unit toll) ..... "             | 126,656                    | 232,579         | 359,235   | 113,086                   | 134,870         | 247,956   |
|  | All other areas            |                 |           | Totals                    |                 |           |
|  | To                         | From            | Total     | To                        | From            | Total     |
| Passengers carried:                          |                            |                 |           |                           |                 |           |
| Unit toll ..... No.                          | 7,864                      | 10,029          | 17,893    | 82,222                    | 89,260          | 171,482   |
| Bulk ..... "                                 | -                          | -               | -         | 1,085                     | 3,488           | 4,573     |
| Totals ..... "                               | 7,864                      | 10,029          | 17,893    | 83,307                    | 92,748          | 176,055   |
| Freight, express and excess baggage carried: |                            |                 |           |                           |                 |           |
| Unit toll ..... 1b.                          | 157,215                    | 69,069          | 226,284   | 1,162,677                 | 3,098,072       | 4,260,749 |
| Bulk ..... "                                 | -                          | -               | -         | 14,300                    | -               | 14,300    |
| Totals ..... "                               | 157,215                    | 69,069          | 226,284   | 1,176,977                 | 3,098,072       | 4,275,049 |
| Mail carried (unit toll) ..... "             | 19,491                     | 19,616          | 39,107    | 259,233                   | 387,065         | 646,298   |
|  | Total by Canadian carriers |                 |           | Total by Foreign carriers |                 |           |
|  | Leaving Canada             | Entering Canada | Total     | Leaving Canada            | Entering Canada | Total     |
| Passengers carried:                          |                            |                 |           |                           |                 |           |
| Unit toll ..... No.                          | 51,798                     | 56,582          | 108,380   | 30,424                    | 32,678          | 63,102    |
| Bulk ..... "                                 | 976                        | 2,194           | 3,170     | 109                       | 1,294           | 1,403     |
| Totals ..... "                               | 52,774                     | 58,776          | 111,550   | 30,533                    | 33,972          | 64,505    |
| Freight, express and excess baggage carried: |                            |                 |           |                           |                 |           |
| Unit toll ..... 1b.                          | 753,293                    | 1,753,275       | 2,506,568 | 409,384                   | 1,344,797       | 1,754,181 |
| Bulk ..... "                                 | -                          | -               | -         | 14,300                    | -               | 14,300    |
| Totals ..... "                               | 753,293                    | 1,753,275       | 2,506,568 | 423,684                   | 1,344,797       | 1,768,481 |
| Mail carried (unit toll) ..... "             | 192,970                    | 198,177         | 391,147   | 66,263                    | 188,888         | 255,151   |

(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

January 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 .....             | -                   | -              |               |                | 31            | 3,008          |               |                |
| Aerial fish cultivation .....        | -                   | -              |               |                | -             | -              |               |                |
| Aerial patrol and inspection .....   | 382                 | 30,888         |               |                | 261           | 36,361         |               |                |
| Aerial pest control .....            | 2                   | 225            |               |                | -             | -              |               |                |
| Aerial photography and survey .....  | 77                  | 11,784         |               |                | 86            | 2,195          |               |                |
| Aerial photography (excl. survey) .. | 19                  | 445            |               |                | 17            | 1,342          |               |                |
| Aircraft rental .....                | 30                  | 483            |               |                | 3             | 250            |               |                |
| Flying training .....                | 1,694               | 31,014         |               |                | 28            | 1,822          |               |                |
| Geophysical survey .....             | 295                 | 54,314         |               |                | 20            | 3,917          |               |                |
| Non-transportation charter .....     | -                   | -              |               |                | 2             | 509            |               |                |
| Philanthropic .....                  | -                   | -              |               |                | -             | -              |               |                |
| Recreational flying .....            | 565                 | 9,937          |               |                | 11            | 2,751          |               |                |
| Specialty flying - Other .....       | -                   | -              |               |                | 4             | 531            |               |                |
| Totals .....                         | 3,064               | 139,090        |               |                | 463           | 52,686         |               |                |

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

January 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           | 8   |              | 22      |              |
| Helicopters - Owned .....             | "                                   | 111          | 13  |              | 124     |              |
| Leased .....                          | "                                   | 6            | 2   |              | 8       |              |
| Totals .....                          | "                                   | 117          | 15  |              | 132     |              |
| Revenue hours flown - Unit toll ..... | "                                   | -            | -   |              | -       |              |
| Bulk .....                            | "                                   | 577          | 65  |              | 642     |              |
| Specialty .....                       | "                                   | 268          | 56  |              | 324     |              |
| Totals .....                          | "                                   | 845          | 121   |              | 966     |              |
| Non-revenue hours flown .....         | "                                   | 51           | 29  |              | 80      |              |
| Fuel and oil consumed:                |                                     |              |   |              |         |              |
| Gasoline .....                        | gal.                                | 18,707       | 3,263   |              | 21,970  |              |
| Cost .....                            | \$                                  | 7,703        | 1,347   |              | 9,050   |              |
| Oil .....                             | gal.                                | 397          | 131   |              | 528     |              |
| Cost .....                            | \$                                  | 447          | 163   |              | 610     |              |
| Average number of employees:          |                                     |              |   |              |         |              |
| Pilots .....                          | No.                                 | 98           | 15  |              | 113     |              |
| Administrative .....                  | "                                   | 50           | 1   |              | 51      |              |
| Maintenance labour .....              | "                                   | 99           | 9   |              | 108     |              |
| Other personnel .....                 | "                                   | 10           | -   |              | 10      |              |
| Totals .....                          | "                                   | 257          | 25  |              | 282     |              |
| Salaries and wages:                   |                                     |              |   |              |         |              |
| Pilots .....                          | \$                                  | 57,600       | 8,937   |              | 66,537  |              |
| Administrative .....                  | \$                                  | 27,599       | 900   |              | 28,499  |              |
| Maintenance labour .....              | \$                                  | 46,320       | 4,566   |              | 50,886  |              |
| Other personnel .....                 | \$                                  | 3,770        | -   |              | 3,770   |              |
| Totals .....                          | \$                                  | 135,289      | 14,403  |              | 149,692 |              |

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

January 1964

|  | Current month | Year to date |
|--|---------------|--------------|
|  | dollars       |              |
| Operating revenues:                      |               |              |
| Unit toll transportation:                |               |              |
| Passengers .....                         | -             |              |
| Express .....                            | -             |              |
| Freight .....                            | -             |              |
| Excess baggage .....                     | -             |              |
| Mail .....                               | -             |              |
| Total unit toll transportation .....     | -             |              |
| Bulk transportation .....                | 79,635        |              |
| Total transportation .....               | 79,635        |              |
| Other flying services .....              | 29,799        |              |
| Total flying services .....              | 109,434       |              |
| Non-flying services .....                | 12,723        |              |
| Total operating revenues .....           | 122,157       |              |
| Operating expenses:                      |               |              |
| Flying operations .....                  | 102,487       |              |
| Maintenance .....                        | 71,490        |              |
| General service and administration ..... | 64,206        |              |
| Depreciation and amortization .....      | 41,385        |              |
| Total operating expenses .....           | 279,568       |              |
| Operating income (deficit) .....         | Dr. 157,411   |              |
| Non-operating income:                    |               |              |
| Capital gains and losses .....           | -             |              |
| Interest and discounts .....             | 355           |              |
| Miscellaneous non-operating income ..... | 18,775        |              |
| Income before interest expense .....     | Dr. 138,281   |              |
| Interest expense .....                   | 5,113         |              |
| Income before income taxes .....         | Dr. 143,394   |              |
| Provision for income taxes .....         | -             |              |
| Net income after income taxes .....      | Dr. 143,394   |              |

TABLE 11. Operating Statistics, Canadian Group V Carriers

January 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.



Freedom 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"><li>(i) the scheduled services, which provide public transportation between designated points in accordance with a schedule (Class I); and</li><li>(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).</li></ul> |
| <u>Weight Load Factor:</u>        | Ratio of revenue ton-miles performed to available ton-miles.   |



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