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**CANADA**  
**DEPARTMENT OF TRADE AND COMMERCE**  
**DOMINION BUREAU OF STATISTICS**  
**TRANSPORTATION & PUBLIC UTILITIES BRANCH**

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**CIVIL AVIATION**  
**IN**  
**CANADA**  
**1937**

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OTTAWA  
1938

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**DOMINION BUREAU OF STATISTICS**  
**TRANSPORTATION AND PUBLIC UTILITIES BRANCH**  
**OTTAWA**

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CIVIL AVIATION IN CANADA

1937

Statistics on civil aviation in Canada are collected under authority of the Statistics Act, 1918, and the Air Regulations, 1920. The Civil Aviation Branch of the Department of Marine published these statistics prior to the report for 1936, and when that branch was transferred to the Department of Transport, the collection of the statistics was transferred to the Dominion Bureau of Statistics.

The Civil Aviation Division of the Department of Transport has jurisdiction over the licensing of airports, aircraft, pilots, and engineers, and supplies the Bureau with the statistics on these licences. The other statistics in this report are collected direct from the operators. The financial data are for the fiscal years of the operators which are not in all cases calendar years.

These statistics do not include the aircraft of the Department of National Defence and operating reports are not required from private operators, although private aircraft and all pilots must be licensed by the Civil Aviation Division of the Department of Transport and are included in the number of licensed aircraft and pilots.

The statistics for 1937 are shown under four headings. Light aeroplane clubs are subsidized by the Dominion Government and their chief operation is the training of pilots. For flights around the club fields in instruction and practice no statistics are required of miles flown, but when flights are made from port to port the mileage is computed for aircraft, pilot, and passengers. The Dominion and Provincial aircraft are engaged almost solely in forest protection, aerial surveying and similar work. Data for international companies include only operations between Canadian and United States ports and do not include operations between foreign ports.



The mail carried by these companies is under both Canadian and United States postal contracts. Commercial companies also carry mail for mines, etc., not under postal contract, and one company has a contract with the means of transportation optional. These account for the difference between the total mail carried by air and the mail carried under postal contracts.

Commercial companies include all companies and individuals operating aircraft for the public transportation of passengers, freight, and mail, and also a few mining companies which operate aircraft for prospecting and mining operations. A large part of commercial passenger and freight traffic is in connection with mining operations in northern districts where previously the means of transportation was canoe in the summer and dog sleigh in the winter. The numerous lakes in most of the northern mining areas provide landing surfaces in the summer for aircraft equipped with floats and in the winter for aircraft equipped with skis. In Quebec and Ontario the distances from the railways to the mines are not great, but in the western provinces and in the North West Territory some of the distances are hundreds of miles. The air line distance from Waterways on the Northern Alberta railway to the radium mines on Great Bear Lake is around 700 miles and the mail route from Fort McMurray to Aklavik at the mouth of the Mackenzie river is over 1,400 miles.

Until recently more freight was carried by aircraft in Canada than in any other country, but the report for the Union of Soviet Socialist Republics states that in 1937 approximately 35,000 tons of freight were transported whereas the tonnage carried by Canadian aircraft was, in round figures, 13,000 tons. The corresponding tonnage for United States civil aircraft was 3,000 tons.

Freight traffic has increased very rapidly during the last four years. The total for 1931 was only 2,372,467 pounds. In the next two years the quantity about doubled, and in 1934 it increased to 14,441,179 pounds, or to over three times the 1933 quantity. In 1935 it increased to 17,615,910 pounds, in 1936 to 25,387,719 pounds, and in 1937 to 26,279,156 pounds.

Mail carried under Canadian postal contracts increased from 470,461 pounds in 1931 to 1,323,584 pounds in 1937 and, including United States mail carried in and mail not under postal contracts, to 1,450,473 pounds in 1937.

Passenger traffic shows increases, but not at rates comparable with freight and mail increases. During 1937 a total of 110,864 paying passengers was carried and 30,294 non-paying passengers, excluding students carried in light aeroplane club aircraft.

Investments of the Dominion Government in the Trans-Canada Airways system are not included in these statistics, but will be when the system is completed and begins to operate.

Tables 8, 9, and 10 show the passengers, freight and express, and mail traffic, according to the province in which loaded and according to class of carrier. Traffic from foreign countries is from the United States including Alaska.

Table 11 analyses the accidents reported according to the class of flight and class of carrier. Commercial companies reported one bystander killed in an

aircraft accident which is not included in the averages computed for Table 13. Because much of the mileage flown by international companies is over foreign territory and made by both Canadian and United States aircraft, the data for these companies are not combined with those of the commercial companies in the averages in Table 13.

Accidents to aircraft belonging to persons not engaged in commercial operations are not included in these data and operating reports were not received from a few operators owning only one plane. Five of these commercial operators had accidents in which eight persons were killed and the planes were destroyed. If reports had been received from these operators and the data included in this report the accident averages in Table 13 would have been greatly increased because the number of flights, miles flown, etc., for these planes would undoubtedly have been insignificant compared with the miles flown by the large organizations which were practically accident free. The averages, however, are correct for the reports received which include all the important organizations.

Mileage for local flights of light aeroplane club aircraft is not computed and this omission in total figures would materially affect averages based on miles flown. Consequently, averages for total figures have not been included in Table 13.

In comparison with 1936 averages, the duration of flight increased by 7 per cent, the distance by 15 per cent, and the passenger journey by 20 per cent. Accident averages showed a decided improvement, particularly averages for persons killed and injured in aircraft flights.

12/11/38



# 1. STATISTICAL SUMMARY OF CIVIL AVIATION IN CANADA, 1931-1937

Item	1931	1932	1933	1934	1935	1936 <sup>(c)</sup>	1937
	No.	No.	No.	No.	No.	No.	No.
<u>General Analysis</u>							
Firms manufacturing aircraft .....	7	7	7	6	10	7	9
Firms chiefly operating aircraft...	100	73	87	125	123	116	162
Firms using aircraft as auxiliary service	4	4	3	3	7	12	10
Aircraft flights made .....	144,080	102,219	106,252	128,031	153,211	160,014	190,403
Aircraft hours flown .....	73,645	56,170	53,299	75,871	88,451	101,953	126,896
Approximate aeroplane mileage .....	5,280,958	2,786,609	2,733,642	3,430,475	4,314,192	...	...
Approximate float seaplane mileage.	1,553,721	1,503,157	1,641,911	3,067,162	3,207,910	...	...
Approximate boat seaplane mileage..	180,620	198,792	99,433			...	...
Approximate amphibian mileage .....	30,950	80,573	63,319			...	...
Total aircraft mileage .....	7,046,276	4,569,131	4,538,315	6,497,637	7,522,102	7,803,942	10,755,524
Average flight duration (minutes)...	30	33	30	36	34	38	40
Pilots carried .....	144,080	102,219	106,252	128,031	153,211	160,014	190,403
Passengers and crew carried .....	100,128	76,800	85,006	105,306	177,472	127,937	168,652
Total personnel carried .....	244,208	179,019	191,258	233,337	330,683	287,951	359,055
Pilots carried one mile (pilot miles)	7,046,276	4,569,131	4,538,315	6,497,637	7,522,102	7,803,942	10,755,524
Passengers and crew carried one mile (passenger miles) .....	4,073,552	2,869,799	3,816,862	6,266,475	7,936,950	12,055,684	17,695,591
Total personnel carried one mile (personnel miles) .....	11,119,828	7,438,930	8,355,177	12,764,112	15,459,052	19,859,626	28,451,115

Total freight or express carried (lb)	2,372,467	3,129,974	4,205,901	14,441,179	17,615,910	25,387,719	26,279,156
Total mail carried (lb.) .....	(a)470,461	(a)413,687	(a)539,358	(a)625,040	(a)1,126,084	(a)1,161,069	(b)1,450,473
<u>Licensed Civil Airports</u>							
Total airports (all types) .....	83	83	90	101	96	155	158
<u>Licensed Civil Aircraft</u>							
Aeroplanes (twin-engined) .....	...	...	1	...	...	...	...
Aeroplanes (triple-engined) .....	1	1	....	...	...	...	...
Aeroplanes (single-engined) (d)...	466	416	331	...	...	...	...
Boat seaplanes (single-engined) ....	23	26	12	...	...	...	...
Amphibians (single-engined) .....	5	2	1	...	...	...	...
Total aircraft (all types) .....	495	445	345	368	380	475	604
<u>Licensed Civil Air Personnel</u>							
Commercial pilots .....	(e)	(e)	474	405	414	380	320
Limited commercial pilots .....	...	...	...	...	...	65	129
Transport pilots .....	...	...	...	...	...	42	73
Private pilots .....	(e)	(e)	405	429	496	559	635
Air engineers .....	(e)	(e)	403	461	472	533	595

(a) Canadian postal contracts.

(b) Carried under Canadian postal contracts. 1,323,584 lbs.

(c) Revised.

(d) Many aeroplanes with wheels may be equipped with skis or floats as conditions demand. (See Table 3.)

(e) The basis of classification was changed in 1935.

## 2. AIRPORTS IN CANADA, 1937.

### Municipal Airports

Location	Name of Aeroplane Club using Airport	Landing Surface	Capacity of Hangar Sq. ft.	Investment <sup>+</sup> \$
<b>PRINCE EDWARD ISLAND</b>				
Summerside .....	(none)	Land and Water	-	9,552
<b>NOVA SCOTIA</b>				
Halifax .....	Halifax Aero Club .....	Land .....	2,400	1,300
<b>NEW BRUNSWICK</b>				
Fredericton .....	(none)	Water .....	-	-
Moncton .....	(none)	Land .....	4,881	23,830
Saint John .....	Saint John Flying Club ....	Land .....	5,200	314,709
<b>QUEBEC</b>				
Cap de la Madeleine	(none)	Land .....	-	X
<b>ONTARIO</b>				
Brantford .....	Brant Norfolk Aero Club ...	Land .....	1,300	6,650
Port William .....	Port William Aero Club ....	Land .....	2,400	975
Halleybury .....	(none)	Water .....	-	-
Hamilton .....	Hamilton Aero Club .....	Land .....	5,700	X
Kingston .....	Flying Club of Kingston ...	Land .....	7,500	3,500
Little Current .....	(none)	Land and Water	-	75
Port Arthur .....	(none)	Water .....	-	3,200
Stratford .....	(none)	Land .....	-	15,000
Waterloo .....	Kitchener Waterloo Flying Club .....	Land .....	5,000	1,600
<b>MANITOBA</b>				
Viriden .....	(none)	Land .....	-	1,150
Winnipeg .....	Winnipeg Flying Club .....	Land .....	X	17,784
<b>SASKATCHEWAN</b>				
Moose Jaw .....	Moose Jaw Flying Club, Ltd.	Land .....	11,600	42,500
North Battleford ...	(none)	Land .....	4,520	8,485
Regina .....	Regina Flying Club .....	Land .....	12,000	200,000
Saskatoon .....	Saskatoon Flying Club ....	Land .....	3,600	36,127
Weyburn .....	(none)	Land .....	-	2,000
Yorkton .....	(none)	Land .....	560	4,500
<b>ALBERTA</b>				
Calgary .....	Calgary Aero Club .....	Land .....	7,800	54,638
Cooking Lake .....	(none)	Land and Water	-	20,658
Edmonton .....	Edmonton and Northern Alberta Aero Club .....	Land .....	8,000	165,070
Grand Prairie .....	(none)	Land .....	1,080	800
Lethbridge .....	(none)	Land .....	4,800	54,231
Medicine Hat .....	(none)	Land .....	-	12,000
Peace River .....	(none)	Land .....	-	-
<b>BRITISH COLUMBIA</b>				
Cranbrook .....	(none)	Land .....	3,850	14,923
Fernie .....	(none)	Land .....	3,000	10,000
Grand Forks .....	(none)	Land .....	-	2,850
Trail .....	(none)	Land .....	X	X
Vancouver .....	Aero Club of British Columbia .....	Land and Water	34,066	737,000
Vernon .....	(none)	Land .....	3,000	5,000
Williams Lake .....	(none)	Land .....	-	902
TOTALS .....			132,257	1,771,009

<sup>+</sup> Not included in investments shown in Table 4.

X Information not available.



## 2. AIRPORTS IN CANADA, 1937 - Concluded

### Other Airports

Kind	Landing Surfaces			Total
	Land Only	Water Only	Land and Water	
	No.	No.	No.	No.
Public .....	17	27	-	44
Public-auxiliary .....	2	-	-	2
Public-temporary .....	1	-	-	1
Dominion Government .....	-	3	1	4
Intermediate .....	30	-	-	30
Provincial .....	-	11	-	11
Private .....	13	16	-	29
Total, Other Airports .....	63	57	1	121
Total, Municipal Airports .....	30	3	4	37
GRAND TOTAL .....	93	60	5	158

## 3. LICENSED CIVIL AIRCRAFT IN CANADA, DEC. 31, 1937.

Aircraft	Dominion and Provincial	Private	Light Aeroplane Clubs	Commercial	Total
	No.	No.	No.	No.	No.
<u>Gross Weight<sup>x</sup></u>					
Up to 2,000 lb. ....	39	95	71	111	316
2,001 to 4,000 lb. ....	21	16	-	95	132
4,001 to 10,000 lb. ....	17	3	-	127	147
Over 10,000 lb. ....	-	-	-	9	9
Total .....	77	114	71	342	604
<u>Type</u>					
Sea boats .....	25	1	1	5	32
Amphibians .....	1	-	-	-	1
Land planes .....	34	99	68	121	322
Convertible <sup>φ</sup> .....	17	14	2	216	249
Total .....	77	114	71	342	604

<sup>†</sup> Includes Canadian licensed aircraft of international companies.

<sup>x</sup> Total weight of aircraft with supplies and full load.

<sup>φ</sup> May be equipped with wheels, floats or skis as conditions demand.

## 4. INVESTMENT IN CIVIL AVIATION IN CANADA, 1937.

Item	Provincial Government	Light Aeroplane Clubs	Commercial	Total
	\$	\$	\$	\$
Land and buildings .....	7,000	31,735	772,997	811,732
Aircraft .....	415,000	83,928	2,792,687	3,291,615
Tools and equipment .....	3,900	9,684	444,046	457,630
Furniture and office appliances..	-	4,224	40,035	44,259
Organization expenditures .....	-	2,576	1,036,544	1,039,120
Total .....	425,900	132,147	5,086,309	5,644,356

5. REVENUES AND EXPENSES OF CIVIL AVIATION IN CANADA, 1937.

Item	Provincial Government	Light Aeroplane Clubs	Commercial	Total
	\$	\$	\$	\$
Total operating revenues.....	...	248,776	2,985,504	3,234,280
Total operating expenses .....	266,691	233,136	3,432,269	3,932,096
Net operating revenues .....	Dr. 266,691	15,640	Dr. 446,765	Dr. 697,816

6. EMPLOYERS AND SALARIES AND WAGES IN CIVIL AVIATION IN CANADA, 1937

	Provincial Government	Light Aeroplane Clubs	Commercial	Total
Employees .....	No. 78	70	617	765
Salaries and Wages .....	\$ 167,651	98,170	1,008,199	1,274,020

7. OPERATIONS OF CIVIL AIRCRAFT IN CANADA, 1937

	Light Aeroplane Clubs	Provincial and Dominion	Inter- national <sup>1/</sup>	Commercial	Total
Number of clubs .....	22	...	...	...	22
Number of members - flying .....	1,195	...	...	...	1,195
other .....	1,200	...	...	...	1,200
Number of flights of aircraft .....	53,321	11,009	3,814	122,259	190,403
Numbers of miles flown .....	2/ 29,900	699,777	762,333	9,263,514	10,755,524
Numbers of hours flown .....	20,549	8,818	5,462	92,067	126,896
Gallons of gasoline consumed .....	138,822	126,971	139,189	1,817,751	2,222,733
Gallons of lubricating oil consumed .....	3,496	3,419	3,317	54,139	64,371
Numbers of crew carried .....	40,713	12,092	6,807	127,006	186,618
Numbers of student pilots carried .....	12,608	...	...	...	12,608
Numbers of student passengers carried <sup>3/</sup> .....	18,671	...	...	...	18,671
Numbers of paying passengers carried .....	380	...	9,352	101,132	110,864
Numbers of non-paying passengers carried .....	8,163	7,010	1,300	13,821	30,294
Totals, personnel carried .....	80,535	19,102	17,459	241,959	359,055
Numbers of crew carried one mile .....	2/ 30,400	750,227	1,362,578	11,795,980	13,939,185
Numbers of paying passengers carried one mile .....	2/ 26,600	...	1,874,601	10,757,063	12,658,264
Numbers of non-paying passengers carried one mile .....	...	455,497	280,463	1,117,706	1,853,666
Totals, personnel carried one mile ...	2/ 57,000	1,205,724	3,517,642	23,670,749	28,451,115
Pupils given instruction .....	1,009	6	12	646	1,673
Pounds of freight and express carried ...	...	1,961,546	12,836	24,304,774	26,279,156
Pounds of mail (postal contracts) .....	...	...	189,344	1,261,129	4/ 1,450,473
Ton miles of freight and express .....	...	Not computed	1,080	1,873,643	5/ 1,874,723
Ton miles of mail .....	...	...	18,612	93,946	112,558
Totals, Ton Miles, Freight, Express, and Mail .....	...	...	19,692	1,967,589	5/ 1,987,281
Square miles sketched from aircraft .....	...	...	...	14,474	14,474
Square miles photographed - vertical .....	...	427	...	10,700	6/ 11,127
Square miles photographed - oblique .....	...	20	...	3,850	7/ 3,870
Number of forest fires detected from the air and reported .....	...	308	...	257	565

- 1/ Flying between Canadian and United States ports.
- 2/ Station to station only.
- 3/ Dual flights - pilot with student passenger.
- 4/ Carried under Canadian postal contract, 1,323,584 lbs.
- 5/ International and commercial only.

- 6/ Exclusive of 23,500 square miles by National Defence aircraft.
- 7/ Exclusive of 56,500 square miles by National Defence aircraft.



8. AIR TRAFFIC IN CANADA, BY PROVINCES, 1937.

Origin of Traffic	Passengers Carried					
	Light Aeroplane Clubs		Provincial & Dominion Governments	Inter- national Companies	Commercial Companies	Total
	Local and Student Passenger	Station to Station				
	No.	No.	No.	No.	No.	No.
Prince Edward Island .....	...	...	...	...	630	630
Nova Scotia .....	1,715	...	66	...	613	2,394
New Brunswick .....	574	...	334	...	872	1,780
Quebec .....	1,231	170	...	2,712	26,585	30,698
Ontario .....	12,919	69	5,297	325	44,588	63,198
Manitoba .....	4,257	25	1,212	1,067	11,165	17,726
Saskatchewan .....	1,924	116	56	...	12,270	14,366
Alberta .....	3,092	...	45	...	5,464	8,601
British Columbia .....	1,122	...	...	1,981	6,632	9,735
Yukon & Northwest Territories	...	...	...	...	5,626	5,626
Foreign countries .....	...	...	...	4,567	508	5,075
Total .....	26,834	380	7,010	10,652	114,953	159,829

† Start and finish of trip at same field.

9. FREIGHT AND EXPRESS LOADED, 1937

Origin of Traffic	Provincial Government	International Companies	Commercial Companies	Total
	Lb.	Lb.	Lb.	Lb.
Prince Edward Island .....	...	...	549	549
Nova Scotia .....	...	...	250	250
New Brunswick .....	...	...	5,839	5,839
Quebec .....	...	496	3,052,408	3,052,904
Ontario .....	1,844,366	...	11,606,415	13,450,781
Manitoba .....	117,180	78	3,823,739	3,940,997
Saskatchewan .....	...	...	1,176,481	1,176,481
Alberta .....	...	...	2,399,635	2,399,635
British Columbia .....	...	635	547,947	548,582
Yukon and Northwest Territories	...	...	1,691,265	1,691,265
Foreign countries .....	...	11,627	246	11,873
Total .....	1,961,546	12,836	24,304,774	26,279,156

10. MAIL LOADED, 1937

Origin of Traffic	International Companies	Commercial Companies	Total
	Lb.	Lb.	Lb.
Prince Edward Island .....	...	126,460	126,460
Nova Scotia .....	...	...	...
New Brunswick .....	...	148,910	148,910
Quebec .....	44,440	142,171	186,611
Ontario .....	1,771	312,635	314,406
Manitoba .....	23,039	230,725	253,764
Saskatchewan .....	...	61,459	61,459
Alberta .....	...	110,526	110,526
British Columbia .....	8,381	42,057	50,438
Yukon and Northwest Territories	...	70,728	70,728
Foreign countries .....	111,713	15,458	127,171
Total .....	189,344	1,261,129	X 1,450,473

X - Carried under Canadian postal contracts, 1,323,584 lbs.



11. ACCIDENTS RESULTING FROM AIRCRAFT IN FLIGHT IN CANADA, 1937.

Class of Flight	Number of Flights	Total Hours Flown	Number of Accidents Resulting in-		Persons			
			Death or Injury	Property Damage only	Killed		Injured	
					Crew	Passenger	Crew	Passenger
COMMERCIAL SERVICE								
With passengers, freight & mail	91,327	72,124	3	26	1	+ 3	1	3
With crew only	20,059	13,809	1	19	-	-	1	-
Instruction	8,507	3,565	-	4	-	-	-	-
Other	2,366	2,569	-	-	-	-	-	-
Total	122,259	92,067	4	49	1	+ 3	2	3
LIGHT AEROPLANE CLUBS								
Instruction-student solo	12,608	4,985	2	9	2	-	-	-
Instruction-student dual	18,671	7,331	-	-	-	-	-	-
Licensed pilot-solo	13,870	5,233	-	10	-	-	-	-
Licensed pilot with passenger	8,172	3,000	1	6	1	1	-	-
Total	53,321	20,549	3	25	3	1	-	-
DOMINION AND PROVINCIAL AIRCRAFT								
Forest protection	8,581	6,516	1	1	-	-	1	1
Exhibition and miscellaneous	71	101	-	1	-	-	-	-
Other	2,357	2,201	-	-	-	-	-	-
Total	11,009	8,818	1	2	-	-	1	1
GRAND TOTAL	186,589	121,434	8	76	4	+ 4	3	4
INTERNATIONAL COMPANIES								
Total	3,814	5,462	No Accidents					

+ Includes a bystander.

12. NON-FLIGHT ACCIDENTS IN CONNECTION WITH CIVIL AVIATION IN CANADA, 1937.

	Employees		Other Persons		Total	
	Killed	Injured	Killed	Injured	Killed	Injured
Commercial services .....	-	3	-	-	-	3
Light aeroplane clubs .....	-	-	-	-	-	-
International aircraft .....	-	1	-	-	-	1
Provincial and Dominion .....	-	1	-	-	-	1
Total .....	-	5	-	-	-	5
Also 1 non-flight accident resulting in property damage only.						
			Estimated Damage to Aircraft		Other Damage and Expenses	
			\$		\$	
Commercial services .....			150,034		1,330	
Light aeroplane clubs .....			11,632		...	
State aircraft .....			8,200		...	
Total .....			169,866		1,330	

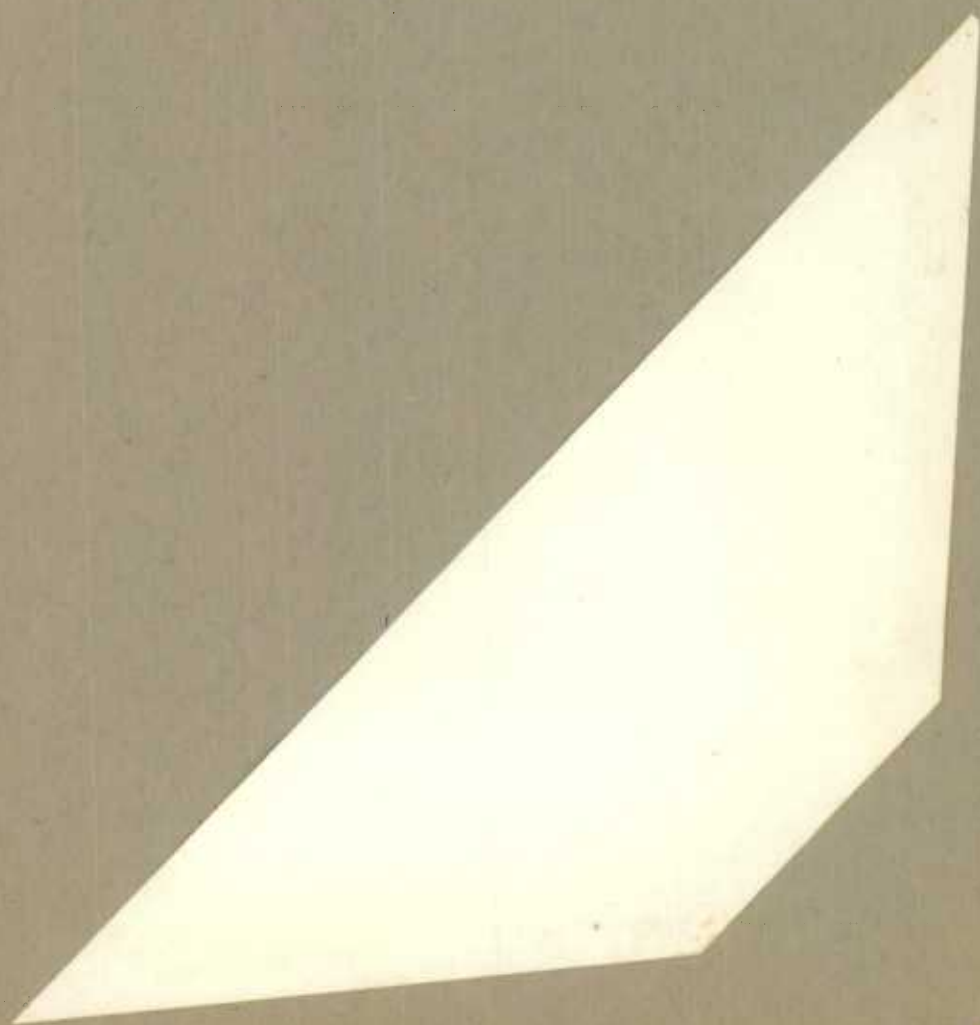
13. OPERATION AND ACCIDENT AVERAGES IN AVIATION IN CANADA

OPERATION AVERAGES		Commercial Aircraft	
		1937	1936
Duration of flight .....	Hours	.753	.704
Length of flight .....	Miles	75.8	65.0
Paying passengers per flight .....	No.	.8	.9
Length of paying passenger journey .....	Miles	106.4	88.0
Length of flights with freight .....	Miles	154.2	93.0
Aircraft miles per gallon of fuel .....	No.	5.10	4.88
Aircraft miles per gallon of lubricating oil .....	No.	171.11	163.11
ACCIDENT AVERAGES			
Accidents per 1,000 aircraft flights .....	No.	.434	.405
Accidents per 1,000,000 aircraft miles .....	No.	5.720	6.197
Fatalities per 1,000 air craft flights .....	No.	.025	.092
Fatalities per 1,000,000 aircraft miles .....	No.	.324	1.408
Passengers killed per 1,000,000 passenger miles ....	No.	.168	.522
Passengers injured per 1,000,000 passenger miles ...	No.	.253	.835
Crew killed per 1,000,000 crew miles .....	No.	.085	.569
Crew injured per 1,000,000 crew miles .....	No.	.170	.227

TABLE I			
Year	1900	1901	1902
Jan	100	100	100
Feb	100	100	100
Mar	100	100	100
Apr	100	100	100
May	100	100	100
Jun	100	100	100
Jul	100	100	100
Aug	100	100	100
Sep	100	100	100
Oct	100	100	100
Nov	100	100	100
Dec	100	100	100

TABLE II			
Year	1900	1901	1902
Jan	100	100	100
Feb	100	100	100
Mar	100	100	100
Apr	100	100	100
May	100	100	100
Jun	100	100	100
Jul	100	100	100
Aug	100	100	100
Sep	100	100	100
Oct	100	100	100
Nov	100	100	100
Dec	100	100	100





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