| 40.—Statistical Summary | r of | Civil A | Aviation | în - | Canada, | , 1927-32. |
|-------------------------|------|---------|----------|------|---------|------------|
|-------------------------|------|---------|----------|------|---------|------------|

| Item. | 1927. | 1928. | 1929. | 1930. | 1931. No. | 1932. No |
|--|--|---|--|-----------------------------------|--|---|
| General Analysis. | No, | No. | No. | No. | | |
| Firms manufacturing aircraft. Firms chiefly operating aircraft. Firms using aircraft as auxiliary service. Aircraft flights made. Aircraft hours flown Aircraft hours flown Approximate acropiane mileage. Approximate boat scapiane mileage. Approximate boat scapiane mileage. Approximate boat scapiane mileage. Approximate boat scapiane mileage. Average flight duration (minutes). Filots carried. Total personnel carried. Total personnel carried. Pilots carried one mile (pilot-miles). Passengers and crew carried 1 mile (pas- senger-miles). Total personnel carried 1 mile (personnel- miles). Total personnel carried 1 mile (personnel- miles). Total mail carried (lb.). | 372,189 829,010 43 16,748 18,932 35,680 829,010 1,424,031 2,253,041 1,098,346 | 4 53 1 75,285 43,071 1,557,917 7907,998 362,029 20,341 2,728,414 2,823,782 5,612,196 2,404,682 316,681 | 1,768,738 426,064 5,956 6,284,079 33 | 12,956,096 | 7 100 4 144,080 73,645 5,280,968 1,553,721 180,620 30,950 7,046,276 100,128 244,208 7,046,276 4,073,552 11,119,928 2,372,467 470,461 | 7 73 4 102,219 50,170 2,786,609 1,503,157 198,792 80,573 102,219 76,800 179,019 4,569,131 2,869,799 7,438,930 3,129,974 413,687 |
| Licensed Civil Air Harbours. | | | ĺ | | | |
| Total air harbours (all types) | 36 | 44 | 77 | 77 | 78 | 83 |
| Licensed Civil Aircraft. | | ļ | | | | |
| Aeroplanes (single-engined) Aeroplanes (triple-engined) Float scaplanes (single-engined) Boat scaplanes (single-engined) Amphibians (single-engined) Total aircraft (all types) | - 1 | 124 3 160 33 4 264 | 281 2 119 37 6 445 | 816 2 183 21 5 527 | 286 1 180 23 5 495 | 259 1 152 26 7 445 |
| Licensed Civil Air Personnel. | | | | | | |
| Pilots only (flying machines) Pilot-Air Engineers Air Engineers only (flying machines) Total licensed personnel Unlicensed air mechanics employed | 29 74 148 | 258 70 130 458 8 | 349 96 212 657 150 | 408 131 241 780 164 | 653 134 236 894 131 | 775 133 208 983 52 |

These figures show duplication, since in several instances the aircraft are used both as landplanes and seaplanes.

PART VIII.-CANALS.¹

Before the period of extensive railway construction which commenced for Canada in the 1850's, the water routes, more especially the St. Lawrence, the Great Lakes and the Ottawa, were the chief avenues of transportation. These routes were interrupted at certain points, necessitating portages, and to eliminate the toil of unloading, transporting and reloading at the portages the canals of Canada were constructed.

The earliest mention of canals in Canada is in connection with the Lachine canal, begun by early French settlers in 1700, but only after the conquest of Canada by the British were improvements of the main water routes made, and in the early part of the 19th century increased internal and foreign trade and the introduction of steam navigation resulted in more attention being given to this work. Although the canals were constructed primarily for military purposes they soon became essential to the commercial life of the country.

^{&#}x27;Revised by G. S. Wrong, B.Sc., Chief of the Transportation and Public Utilities Branch of the Dominion Bureau of Statistics. This Branch publishes an annual report on "Canal Statistics".