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CANADA

DOMINION BUREAU OF STATISTICS  
TRANSPORTATION AND PUBLIC UTILITIES BRANCH

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THE HIGHWAY  
AND  
THE MOTOR VEHICLE  
IN  
CANADA  
1931

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1932

## PREFACE

Previous to 1928 the Highway Branch of the Department of Railways and Canals issued annual reports on highways and the Bureau issued annual reports on registrations of motor vehicles. These were combined into one report in 1928 and this is the fourth of these reports issued by the Bureau.

Except for data on vital statistics, motor vehicles on farms, and accidents in urban municipalities, collected by the Bureau direct, the statistics on highways and motor vehicle registrations, revenues, etc., have been supplied by the several provincial highway departments and the Bureau wishes to express its appreciation and its thanks to the officials in charge of those departments for their co-operation.

R. H. COATS,  
*Dominion Statistician.*

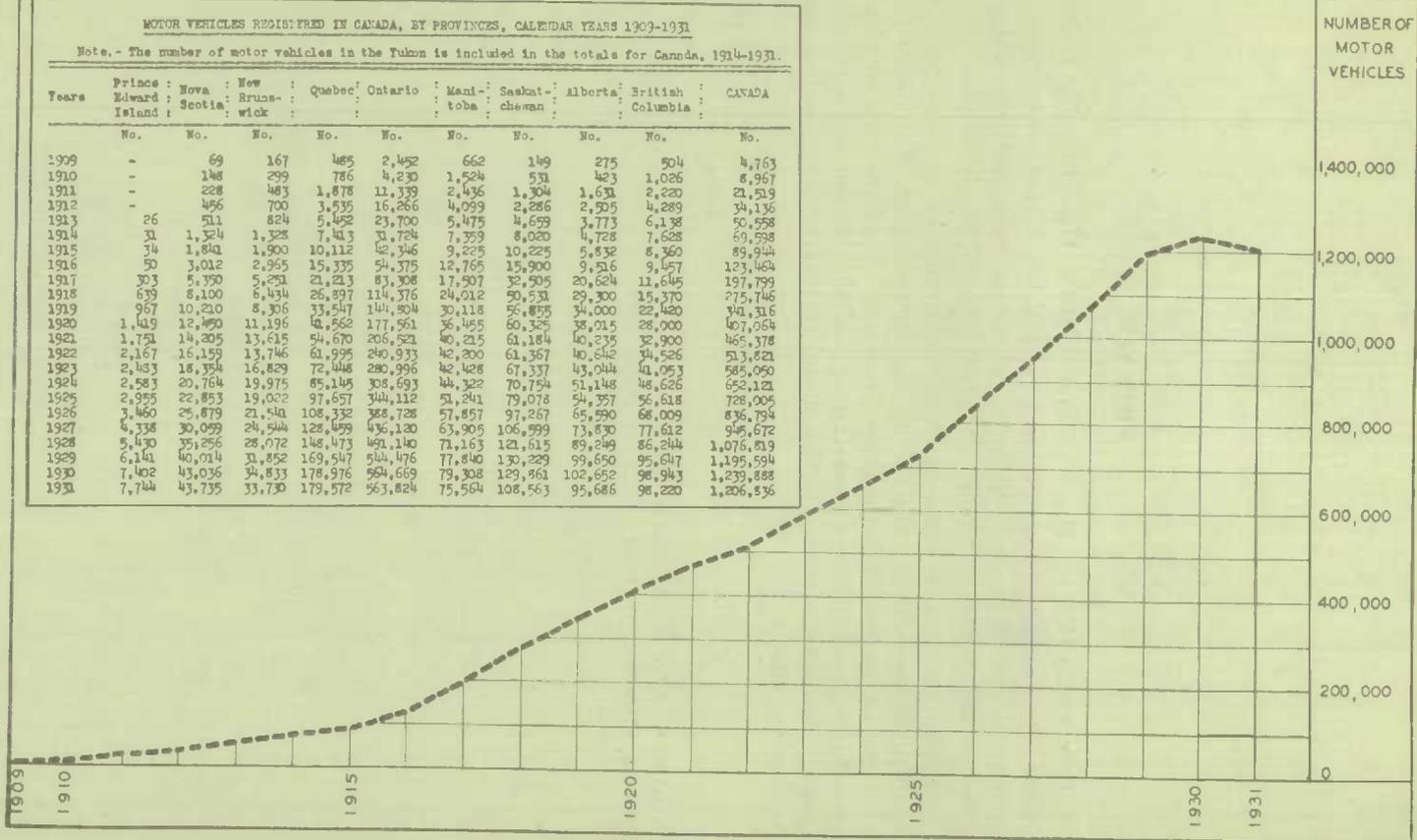
DOMINION BUREAU OF STATISTICS,  
OTTAWA, October 20, 1932.

# MOTOR VEHICLES REGISTERED IN CANADA, CALENDAR YEARS 1909-1931

MOTOR VEHICLES REGISTERED IN CANADA, BY PROVINCES, CALENDAR YEARS 1909-1931

Note.- The number of motor vehicles in the Yukon is included in the totals for Canada, 1914-1931.

Years	Prince Edward Island	Nova Scotia	New Brun- swick	Quebec	Ontario	Mani- toba	Saskat- chewan	Alberta	British Columbia	CANADA
	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.
1909	-	69	167	485	2,452	662	149	275	504	4,763
1910	-	146	299	786	4,230	1,524	531	423	1,026	8,967
1911	-	228	483	1,878	11,339	2,436	1,304	1,631	2,220	21,519
1912	-	456	700	3,535	16,266	4,099	2,286	2,905	4,289	34,136
1913	26	511	824	5,452	23,700	5,475	4,659	3,773	6,138	50,558
1914	31	1,324	1,328	7,413	31,724	7,359	8,020	4,728	7,628	69,598
1915	34	1,811	1,900	10,112	42,346	9,225	10,225	5,832	8,360	89,914
1916	50	3,012	2,965	15,335	54,375	12,765	15,900	9,516	9,457	123,464
1917	303	5,330	5,251	21,213	83,308	17,507	32,505	20,624	11,615	197,799
1918	639	8,100	6,434	26,897	114,376	24,012	50,531	29,300	15,370	275,746
1919	967	10,210	8,306	33,547	141,804	30,118	56,855	34,000	22,420	341,316
1920	1,419	12,499	11,196	41,862	177,561	36,455	60,325	38,015	28,900	407,064
1921	1,751	14,205	13,615	54,670	206,321	40,215	61,184	40,235	32,900	465,378
1922	2,167	16,159	13,746	61,995	240,933	42,300	61,367	40,652	34,526	513,821
1923	2,483	18,354	16,829	72,448	280,996	42,428	67,337	43,044	41,053	585,050
1924	2,583	20,764	19,975	85,145	308,693	44,322	70,754	51,148	48,626	652,121
1925	2,955	22,853	19,022	97,657	344,112	51,241	79,078	54,357	56,618	728,005
1926	3,460	25,879	21,511	108,332	388,728	57,857	97,267	65,990	68,009	836,794
1927	4,338	30,099	24,511	128,459	436,120	63,905	106,999	73,830	77,612	945,672
1928	5,430	35,256	28,072	148,473	491,140	71,163	121,615	89,249	86,214	1,076,819
1929	6,141	40,014	31,852	169,547	541,476	77,840	130,229	99,650	95,647	1,195,594
1930	7,402	43,036	34,833	178,976	564,669	79,308	129,861	102,652	98,943	1,239,888
1931	7,714	43,735	33,730	179,572	563,824	75,564	108,563	95,686	98,220	1,206,536



NUMBER OF  
MOTOR  
VEHICLES

1,400,000  
1,200,000  
1,000,000  
800,000  
600,000  
400,000  
200,000  
0

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# The Highway and the Motor Vehicle in Canada

## PART I—HIGHWAYS

The economic and social life of the country has been materially affected by the introduction and use of the motor vehicle. The efficient use of the motor vehicle required surfaced roads and the increased mileage of improved roads encouraged the increased use of motor vehicles until now there is one motor vehicle to every 8.6 persons in Canada, or approximately one motor vehicle to every two families. This intensive use of motor vehicles has greatly increased the productive capacity of a large part of the population. It has revolutionized a large part of the freight and passenger traffic of the country. It has displaced a great number of horses and horse-drawn vehicles; carriage and wagon factories have been changed into automobile factories; blacksmith shops have become garages; hay and feed stores have disappeared and gasoline stations have appeared by the thousands. It has reduced in time the distance from the farm to the town and city, from the home to the office, shop and factory; it has populated suburbs and reduced congestion in cities; it has changed to a large extent the habits of the people, especially the urban population. The amusement resorts in the immediate vicinity of towns and cities have been largely deserted and remote and formerly inaccessible places are thronged with tourists, both local and foreign. When an individual or family or party wishes to visit a distant city, or go on a picnic or excursion, the request is no longer, "What time does the train leave?" but is now, "When will it be convenient to leave?" This matter of convenience, coupled with speed, comfort and cheapness of automobile travel, has greatly increased the riding habits of a large part of the population and passenger traffic of railways, street cars and boats has been reduced. The motor vehicle has so widened the area accessible to railways that many lines of railway are now too closely located from economic considerations. The whole transportation problem is being changed and the process will probably be hastened as improvements in motor vehicles and highways are made.

This revolution is still going on and, although already gone a considerable distance, it started only a few years ago. In 1910 there were less than 10,000 motor vehicles registered in Canada, in 1915 less than 100,000 registrations, but in 1928 there were over a million and the peak was reached in 1930 with 1,239,888 motor vehicles being registered. The construction of surfaced roads, especially with what is commonly termed "permanent" tops, has been just as spectacular. As late as 1922 there were only 859 miles of bituminous and cement concrete surfaced roads in Canada. Nine years later, or by 1931, this had increased to 4,492 miles, or by over 400 per cent, and gravel road mileage had increased from 34,838 to 80,648 miles. The water-bound macadam road which was a good road for horse-drawn vehicles and comparatively inexpensive to build could not stand up under the sucking action of rubber tires and gradually diminished from 12,998 miles in 1922 to 2,184 miles in 1931.

The statistics on highway mileages, capital and maintenance expenditures were supplied by the provincial highway departments and for local roads include only such data as are reported to the provincial departments by the counties, townships and other local municipalities.

In the three Maritime Provinces all highways are under the jurisdiction of the provincial governments and, consequently, the data for highways in those provinces are complete. In Quebec the provincial government maintains all improved highways and shares with local municipalities the cost of construction of local roads. In Ontario local roads constructed to certain standards are subsidized by the provincial government as to construction and maintenance. Roads in Northern Ontario are under the jurisdiction of a board and the mileages and expenditures for these roads have been shown separately in the tables. In Manitoba the province shares in the construction of local roads, but not in maintenance, and pays two-thirds of the construction costs and all the maintenance of main roads. In Saskatchewan the province constructs and maintains main roads and the municipalities construct and maintain all local roads. In Alberta the province constructs and maintains main highways and development roads, shares with the municipalities the cost of construction of secondary highways, district highways and local roads, and pays the entire cost of maintenance of secondary highways. The local municipalities pay for the maintenance of district and local roads. In British Columbia the province constructs and maintains all arterial roads and pays from 40 to 45 per cent of cost of construction and maintenance of all other roads, the local municipalities paying the remainder.

The classification of highways is not the same in all provinces, being more or less at the discretion of the respective ministers of highways. Also, it is not possible by the methods now used to compute the comprehensive cost of either construction or maintenance of rural roads in Canada. The expenditures, however, which are included in the tables, include those for all important highways in Canada and practically all of the surfaced roads.

Especially in the sparsely settled portions of the provinces there is a real difficulty in computing the correct mileage of unimproved earth roads and this mileage should be considered only as approximate.

*Table 1.—Highway Mileage Open for Traffic.*—At the end of 1931 there were 92,992.6 miles of provincial highway and 285,101.4 miles of local roads in Canada. The Manitoba Highway Department did not include any estimate of unimproved earth roads in the 1931 report; consequently, there is an apparent decrease in earth roads in that province of 21,559 miles. Much of the unimproved earth roads in the Prairie Provinces is road allowance made when the country was surveyed. Practically all this surveying was done considerably in advance of settlement. This deduction with new roads opened in all provinces makes a net decrease of 16,278.7 miles in total highway mileage. Surfaced highways, however, increased from 80,497.9 miles in 1930 to 87,365 miles in 1931. Water bound macadam and bituminous macadam roads decreased in mileage due to conversions to other types, some to better types and some evidently reverting to gravel and crushed stone. Fifty-four per cent of the surfaced highway mileage and 88 per cent of the cement concrete mileage was in Ontario; over two-thirds of the provincial highway mileage in Southern Ontario is bituminous and cement top, whereas in the other provinces the greater part of both provincial and local roads is gravel surfaced.

*Table 2.—Highway Mileage Constructed and Converted from Other Types.*—The total mileage of surfaced roads constructed or converted from one type to another during the year amounted to 6,974.7 miles, which was 31.4 per cent less than the 1930 program. There were only 55.7 miles of water bound macadam road constructed as against 482.4 miles in 1930. There was practically no change in the cement concrete mileage constructed during 1930 and 1931, bituminous macadam showed a larger mileage constructed but the mileage completed in 1931 for other types was considerably less than in 1930.

*Table 3.—Capital Expenditures.*—The total expenditures for highway construction during the year amounted to \$60,002,819 and for bridges and ferries

to \$6,247,410, making a total of \$66,250,229, as compared with a total of \$69,998,233 in 1930. In the Maritime Provinces all the expenditures were made by the province, in Quebec provincial expenditures accounted for 76 per cent of the total, in Ontario 71 per cent, in Manitoba 75 per cent, in Alberta 70 per cent and in British Columbia 85 per cent. Expenditures by local rural municipalities in Saskatchewan were not available. As stated previously, the municipal expenditures in other provinces are only those expenditures for work earning provincial subsidies or contributions for provincial highways.

*Table 4.—Expenditures for Construction by Classes of Road.*—The subsidies received from the Dominion Government were not segregated as to the class of road on which they were expended. In some provinces these expenditures were not made by the highway department. Excluding these expenditures and also the bridge and ferry expenditures except in Ontario, \$35,012,760 or 61 per cent of the total road construction costs was for main provincial highways. This high cost is due to the type of surface necessary for this class of highway where the traffic runs as high as 20,000 motor vehicles per day during the peak of the season and for considerable stretches of road averages 10,000 vehicles per day the year round. For local roads only \$8,757,724 was expended, the maintenance costs on this class of road being almost as high as the construction costs due largely to the type of surface on this class of road.

*Table 5.—Maintenance Expenditures.*—The total maintenance expenditures during 1931 amounted to \$20,642,409 for roads and \$1,644,744 for bridges and ferries, making a total of \$22,287,153. The provincial highway departments paid \$18,746,163 of this and the annual charges for highway debentures amounted to approximately \$19,772,829, making a total annual provincial charge of \$38,518,992. Against this annual charge the provinces collected \$42,231,027 as licence fees and gasoline tax and \$431,214 from bridge and ferry tolls, or a total of \$4,143,249 in excess of the annual charges. There should be deducted from this surplus the cost of operating the motor vehicle branches of the several provinces including police patrol, etc. Also these charges do not include the maintenance of local municipalities, which in 1931 amounted to \$3,521,900, nor the interest and retiring charges for capital expenditures for local roads in all but the Maritime Provinces.

*Table 6.—Provincial Highway Debentures.*—The annual charges were reported by each province except Ontario, for which province the Bureau estimated the charges as explained in the footnote to table 6. The amount of debentures outstanding should not be confused with estimates of the total investments in highways. The cost of constructing a new road is considerably greater than the cost of putting a permanent top on an old road and much of the provincial expenditures have been of this nature.

*Table 7.—Location of Farms by Types of Highway.*—The seventh census of Canada included some very interesting and informative data on the types of roads on which farms are located. These data have been tabulated by provinces in table 7. The types of road are largely governed by the nature of the soil and to a lesser extent by the density of traffic. In Prince Edward Island over 96 per cent of the farms were located on earth roads. There is very little gravel on the island and practically all the road metal has to be brought from the mainland. Also, in Manitoba, Saskatchewan and Alberta gravel is scarce in the farming areas and the percentages of farms on earth roads are high, viz., 81.25, 94.73 and 95.52 respectively. In Ontario less than one-fifth of the farms were located on earth roads and four-fifths were on surfaced roads, principally gravel. It is quite probable that all bituminous roads were classed as asphalt and also that some crushed rock roads were classed as macadam as no definitions were laid down and both farmers and enumerators had to use their own knowledge of roads.

TABLE 1.—HIGHWAY MILEAGE OPEN FOR TRAFFIC DECEMBER 31, 1931

Class of Road	Canada	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Southern Ontario	Northern Ontario	Manitoba	Sas-katchewan	Alberta	British Columbia
Unimproved earth	Provincial	15,947.2	1,999.2	8,949.3	2,419	-	-	( <sup>6</sup> )	1,790.0	223	32,567.7
	Other	117,040.1	-	-	-	20,673.0	-	-	54,979.3	40,777	810.8
Total		132,987.3	1,999.2	8,949.3	2,419	20,673.0	-	-	56,769.3	41,000	3,178.5
Improved earth and sand clay	Provincial	26,602.1	1,396.0	3,434.8	4,353	242.9	-	2,493.0	152.8	3,769.0	623
	Other	131,139.1	-	-	-	-	17,025.0	-	1,344.1	92,957.9	19,100
Total		157,741.2	1,396.0	3,434.8	4,353	242.9	17,025.0	2,493.0	1,495.9	96,726.9	19,723
Gravel and crushed stone (loose)	Provincial	40,329.0	245.9	30.8	5,039	12,590.9	124.0	11,595.7	1,392.3	2,045.0	1,633
	Other	34,752.4	-	-	-	-	30,729.0	-	2,246.6	-	-
Total		75,081.4	245.9	30.8	5,039	12,590.9	30,853.0	11,595.7	3,638.9	2,045.0	1,633
Oil-treated gravel	Provincial	5,204.1	-	4,256.6	-	-	618.0	-	4.0	88.0	-
	Other	362.4	-	-	-	-	-	-	-	-	-
Total		5,566.5	-	4,256.6	-	-	618.0	-	4.0	88.0	-
Waterbound macadam	Provincial	1,773.5	-	30.2	-	1,486.6	214.0	32.8	-	-	9.9
	Other	410.0	-	-	-	-	300.0	-	-	-	110.0
Total		2,183.5	-	30.2	-	1,486.6	514.0	32.8	-	-	119.9
Bituminous macadam	Provincial	741.4	-	17.5	13	234.8	235.0	163.4	-	-	70
	Other	474.0	-	-	-	-	410.0	-	-	-	-
Total		1,215.4	-	17.5	13	234.8	645.0	163.4	-	-	70
Bituminous concrete	Provincial	1,153.2	4.7	-	-	405.7	673.5	-	54.4	-	14.9
	Other	539.1	-	-	-	-	405.0	-	26.6	-	107.5
Total		1,692.3	4.7	-	-	405.7	1,078.5	-	81.0	-	122.4
Cement concrete	Provincial	1,205.4	1.5	-	-	129.3	1,053.0	-	7.4	-	7.5
	Other	378.5	-	-	-	-	333.0	-	2.5	-	43.0
Total		1,583.9	1.5	-	-	129.3	1,386.0	-	9.9	-	50.5
Other surfaces	Provincial	36.7	2.7	-	2	-	-	-	-	-	32.0
	Other	5.8	-	-	-	-	-	-	-	-	5.8
Total		42.5	2.7	-	2	-	-	-	-	-	37.8
Total surfaced	Provincial	50,443.3	254.8	4,335.1	5,054	14,847.3	2,917.5	11,798.6	1,458.1	2,113.0	1,703
	Other	36,922.2	-	-	-	-	32,177.0	-	2,275.7	-	-
Total		87,365.5	254.8	4,335.1	5,054	14,847.3	35,094.5	11,798.6	3,733.8	2,113.0	1,703
Grand total	Provincial	92,992.6	3,850.0	14,719.2	11,825	15,090.2	2,917.5	14,291.6	1,810.9	7,672.0	2,549
	Other	285,191.4	-	-	-	20,673.0	49,202.0	-	3,619.8	147,937.2	59,877
Total		378,094.0	3,850.0	14,719.2	11,825	35,763.2	52,119.5	14,291.6	5,230.7	155,609.2	62,426

<sup>1</sup> Screened and Crushed Gravel.  
<sup>2</sup> Amiesite.

<sup>3</sup> 2,853.2 miles cleared only, 325.3 rough graded.  
<sup>4</sup> Bituminous Carpet.

<sup>5</sup> Sand Asphalt.  
<sup>6</sup> 23,056 reported for 1930.

TABLE 2.—HIGHWAY MILEAGE CONSTRUCTED AND CONVERTED FROM OTHER TYPES DURING 1931

Class of Road	Canada	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Southern Ontario	Northern Ontario	Manitoba	Sas-katchewan	Alberta	British Columbia
Unimproved earth.....											
Provincial.....	-	-	-	-	-	-	-	-	-	-	-
Other.....	-	-	-	-	-	-	-	-	-	-	-
Total.....	-	-	-	-	-	-	-	-	-	-	-
Improved earth and sand clay.....											
Provincial.....	3,903.0	191.0	357.9	1,214	-	-	1,587.7	128.4	833.0	591	-
Other.....	5,386.9	-	-	-	1.9	-	-	157.8	3,627.2	1,600	-
Total.....	9,289.9	191.0	357.9	1,214	1.9	-	587.7	286.2	4,460.2	2,191	-
Gravel and crushed stone (loose).....											
Provincial.....	3,639.4	96.0	692.2	458	167.4	-	1,387.7	277.4	183.7	377	-
Other.....	2,378.8	-	-	-	984.5	1,130	-	264.3	-	-	-
Total.....	6,018.2	96.0	692.2	458	1,151.9	1,130	1,387.7	541.7	183.7	377	-
Oil-treated gravel.....											
Provincial.....	257.3	-	-	-	-	250	-	4.0	3.3	-	-
Other.....	-	-	-	-	-	-	-	-	-	-	-
Total.....	257.3	-	-	-	-	250	-	4.0	3.3	-	-
Waterbound macadam.....											
Provincial.....	-	-	-	-	-	-	-	-	-	-	-
Other.....	55.7	-	-	-	5.7	50	-	-	-	-	-
Total.....	55.7	-	-	-	5.7	50	-	-	-	-	-
Bituminous macadam.....											
Provincial.....	153.3	-	-	-	81.3	2	-	-	-	70	-
Other.....	89.7	-	-	-	13.7	76	-	-	-	-	-
Total.....	243.0	-	-	-	95.0	78	-	-	-	70	-
Bituminous concrete.....											
Provincial.....	133.1	-	-	-	18.0	86	-	29.1	-	-	-
Other.....	88.4	-	-	-	16.4	72	-	-	-	-	-
Total.....	221.5	-	-	-	34.4	158	-	29.1	-	-	-
Cement concrete.....											
Provincial.....	156.3	1.2	-	-	30.7	117	-	7.4	-	-	-
Other.....	20.8	-	-	-	1.3	17	-	2.5	-	-	-
Total.....	177.1	1.2	-	-	32.0	134	-	9.9	-	-	-
Other surfaces.....											
Provincial.....	1.9	1.9	-	-	-	-	-	-	-	-	-
Other.....	-	-	-	-	-	-	-	-	-	-	-
Total.....	1.9	1.9	-	-	-	-	-	-	-	-	-
Total surfaced.....											
Provincial.....	4,341.3	99.1	692.2	458	297.4	455	1,387.7	317.9	187.0	447	-
Other.....	2,633.4	-	-	-	1,021.6	1,345	-	266.8	-	-	-
Total.....	3,974.7	99.1	692.2	458	1,319.0	1,800	1,387.7	584.7	187.0	447	-
Grand Total.....											
Provincial.....	8,244.3	290.1	1,050.1	1,672	297.4	455	1,975.4	446.3	1,020.0	1,038	-
Other.....	8,020.3	-	-	-	1,023.5	1,345	-	424.6	3,627.2	1,600	-
Total.....	16,264.6	290.1	1,050.1	1,672	1,320.9	1,800	1,975.4	870.9	4,647.2	2,638	-

<sup>1</sup> Graded only.   <sup>2</sup> Sand asphalt.

TABLE 3.—CAPITAL EXPENDITURES, 1931

Class of Road	Total for Canada	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Southern Ontario	Northern Ontario	Manitoba	Sas-katchewan	Alberta	British Columbia
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
<i>Dominion Subsidy—</i>											
Roads.....	4,262,545	43,000	518,815	222,492	( <sup>1</sup> )	-	1,000,000	58,354	1,134,077	882,161	370,711
Bridges.....				32,935							
<i>Provincial—</i>											
Direct.....	37,497,793	177,000	3,171,256	2,877,173	5,453,261	6,630,457	5,580,080	1,593,474	5,256,803	2,125,279	4,633,010
Subsidies to municipalities.....	8,625,097	-	71,355	-	2,512,065	3,250,000	262,426	486,462	-	431,237	1,511,552
Total roads.....	46,022,890	177,000	3,242,611	2,877,173	7,965,326	9,880,457	5,842,506	2,079,936	5,256,803	2,556,516	6,144,562
Bridges.....	4,952,761	90,000	364,236	463,051	1,106,122	1,164,681	-	-	192,154	503,327	1,069,190
Ferries.....	398,089	-	71,850	-	-	-	-	-	119,147	5,620	201,472
Total provincial.....	51,373,740	267,000	3,678,697	3,340,224	9,071,448	11,045,138	5,842,506	2,079,936	5,568,104	3,065,463	7,415,224
<i>Municipal—</i>											
Provincial highways.....	1,991,227	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	150,000	1,657,614	-	183,613	( <sup>2</sup> )	-	-
Local highways.....	7,759,092	-	-	-	2,078,865	3,610,000	262,426	457,313	-	431,237	919,251
Total roads.....	9,750,319	-	-	-	2,228,865	5,267,614	262,426	640,926	-	431,237	919,251
Bridges.....	863,625	-	-	-	572,454	201,171	-	-	-	-	-
Ferries.....	-	-	-	-	-	-	-	-	-	-	-
Total by municipalities.....	10,613,944	-	-	-	2,801,319	5,558,785	262,426	640,926	-	431,237	919,251
<i>Grand Total—</i>											
Roads (including Dominion sub- sidy).....	60,002,819	220,000	3,761,426	3,099,665	10,194,191	15,148,071	7,104,932	2,779,216	6,390,880	3,869,914	7,434,524
Bridges and ferries.....	6,247,410	90,000	436,086	495,986	1,678,576	1,455,852	-	-	311,301	508,947	1,270,662
Total.....	66,250,229	310,000	4,197,512	3,595,651	11,872,767	16,603,923	7,104,932	2,779,216	6,702,181	4,378,861	8,705,186

<sup>1</sup> All roads are constructed and maintained by the province.

<sup>2</sup> No data.

<sup>3</sup> Construction and maintenance.

<sup>4</sup> Includes \$17,429 for wharves, gravel pits and miscellaneous.

<sup>5</sup> From Nov. 1, 1931-April 30, 1932, \$353,284 received.

<sup>6</sup> Exclusive of grants by Railway Commission and C.N.R. for grade crossing elimination—\$127,642.

TABLE 4.—EXPENDITURES FOR CONSTRUCTION BY CLASSES OF ROADS

Class of Road	Canada	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Southern Ontario	Northern Ontario	Manitoba	Sas-katchewan	Alberta	British Columbia
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
<i>Cost of Construction Borne by Province—</i>											
Main provincial highway.....	32,730,362	177,000	31,661,320	1,350,024	5,453,261	7,795,138	5,424,795	1,593,474	3,044,156	1,598,184	4,633,010
Secondary provincial highway.....	2,419,963	-	-	927,149	-	-	-	-	-	796,573	695,241
County roads and market roads.....	7,565,779	-	1,581,291	-	-	2,430,000	-	486,462	2,212,647	143,342	712,037
Township roads and local roads.....	4,317,182	-	-	600,000	2,512,065	820,000	262,426	-	-	18,417	104,274
Colonization roads.....	155,285	-	-	-	-	-	155,285	-	-	-	-
<b>Total.....</b>	<b>47,187,571</b>	<b>177,000</b>	<b>3,242,611</b>	<b>2,877,173</b>	<b>7,965,326</b>	<b>11,045,138</b>	<b>5,842,506</b>	<b>2,079,936</b>	<b>5,256,803</b>	<b>2,556,516</b>	<b>6,144,562</b>
<i>Cost of Construction Borne by Local Municipalities—</i>											
Main provincial highway.....	2,282,398	-	-	-	150,000	1,948,785	-	183,613	-	431,237	-
Secondary provincial highway.....	431,237	-	-	-	-	-	-	-	No data	-	-
County roads and market roads.....	2,887,313	-	-	-	-	2,430,000	-	457,313	-	-	-
Township roads and local roads.....	4,440,542	-	-	-	2,078,865	1,180,000	262,426	-	-	-	919,251
<b>Total.....</b>	<b>10,041,490</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2,228,865</b>	<b>5,558,785</b>	<b>262,426</b>	<b>640,926</b>	<b>-</b>	<b>431,237</b>	<b>919,251</b>
<i>Total Cost of Construction Borne by Province and Local Municipalities—</i>											
Main provincial highway.....	35,012,760	177,000	1,661,320	1,350,024	5,603,261	9,743,923	5,424,795	1,777,087	3,044,156	1,598,184	4,633,010
Secondary provincial highway.....	2,850,200	-	-	927,149	-	-	-	-	-	1,227,810	695,241
County roads and market roads.....	10,453,092	-	1,581,291	-	-	4,860,000	-	943,775	2,212,647	143,342	712,037
Township roads and local roads.....	8,737,724	-	-	600,000	4,590,930	2,000,000	524,852	-	-	18,417	1,023,525
Colonization roads.....	155,285	-	-	-	-	-	155,285	-	-	-	-
<b>Total.....</b>	<b>57,229,061</b>	<b>177,000</b>	<b>3,242,611</b>	<b>2,877,173</b>	<b>10,194,191</b>	<b>16,603,923</b>	<b>6,104,932</b>	<b>2,720,962</b>	<b>5,256,803</b>	<b>2,987,763</b>	<b>7,063,813</b>
<i>Dominion Subsidies—</i>											
Roads and bridges.....	4,282,545	43,000	518,815	255,427	-	-	1,000,000	58,354	1,134,077	882,161	370,711
<i>Total Expenditures—</i>											
Roads.....	61,491,606	220,000	3,761,426	3,132,600	10,194,191	16,603,923	7,104,932	2,778,216	6,390,880	3,869,914	7,434,524
Bridges and ferries.....	4,758,623	90,000	436,086	463,051	1,678,576	( <sup>1</sup> )	-	-	311,301	508,947	1,270,662
<b>Total.....</b>	<b>66,250,229</b>	<b>310,000</b>	<b>4,197,512</b>	<b>3,595,651</b>	<b>11,872,767</b>	<b>16,603,923</b>	<b>7,104,932</b>	<b>2,778,216</b>	<b>6,702,181</b>	<b>4,378,861</b>	<b>8,705,186</b>

<sup>1</sup> Construction and maintenance.

<sup>2</sup> Includes \$17,429 for wharves and miscellaneous work.

<sup>3</sup> Bridges included with roads.

<sup>4</sup> Including \$1,000,000 for unemployment relief.

<sup>5</sup> Including \$1,122,607 for unemployment relief.

TABLE 5.—MAINTENANCE EXPENDITURES, 1931

Class of Road	Total for Canada	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Southern Ontario	Northern Ontario	Manitoba	Saskatchewan	Alberta	British Columbia
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
<i>Dominion Subsidy—</i>											
Roads.....	607	-	-	607	-	-	-	-	-	-	-
Bridges.....	18,483	-	-	18,483	-	-	-	-	-	-	-
<i>Provincial—</i>											
Direct.....	12,192,499	202,000	1,656,869	453,705	2,670,993	973,230	1,717,925	873,867	950,531	1,014,475	1,678,904
Subsidies to municipalities.....	4,931,507	-	-	-	1,901,655	2,197,490	174,951	21,364	-	487,981	168,066
Total roads.....	17,124,006	202,000	1,656,869	453,705	4,572,648	3,170,720	1,892,876	895,231	950,531	1,482,456	1,846,970
Bridges { Maintenance.....	1,328,328	98,500	238,589	244,020	282,812	16,417	-	-	98,133	54,792	295,065
{ Operation.....											
Ferries.....	293,829	40,300	-	30,306	-	-	-	-	-	81,525	141,698
Total provincial.....	18,746,163	340,800	1,895,458	728,031	4,855,460	3,187,137	1,892,876	895,231	1,048,664	1,618,773	2,283,733
<i>Municipal—</i>											
Provincial highways.....	243,307	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>2</sup> )	243,307	-	-	( <sup>3</sup> )	-	( <sup>4</sup> )
Local highways.....	3,274,489	-	-	-	-	2,620,775	174,951	10,782	-	467,981	-
Total roads.....	3,517,796	-	-	-	-	2,864,082	174,951	10,782	-	467,981	-
Bridges.....	4,104	-	-	-	-	4,104	-	-	-	-	-
Ferries.....	-	-	-	-	-	-	-	-	-	-	-
Total municipal.....	3,521,900	-	-	-	-	2,868,186	174,951	10,782	-	467,981	-
<i>Grand Total—</i>											
Roads.....	20,642,409	202,000	1,656,869	454,312	4,572,648	6,034,802	2,067,827	906,013	950,531	1,950,437	1,846,970
Bridges and ferries.....	1,644,744	138,800	238,589	292,809	282,812	20,521	-	-	98,133	136,317	436,763
Total.....	22,287,153	340,800	1,895,458	747,121	4,855,460	6,055,323	2,067,827	906,013	1,048,664	2,086,754	2,283,733
Tolls from bridges and ferries.....	431,214	-	68,770	3,656	328,493	-	-	-	-	-	30,295

<sup>1</sup> All roads are constructed and maintained by the province.<sup>2</sup> No data.<sup>3</sup> All improved roads maintained by the province.<sup>4</sup> Maintenance included with capital expenditures.

TABLE 6.—PROVINCIAL HIGHWAY DEBENTURES

Province	Amount outstanding Dec. 31, 1931	Annual Charges Interest and Sinking Fund
Prince Edward Island.....	\$ 1,175,000	\$ 174,687
Nova Scotia.....	19,748,930	1,063,687
New Brunswick.....	35,928,810	1,620,000
Quebec.....	38,877,000	1,605,215
Southern Ontario.....	(1) 124,041,815	
Northern Ontario.....	(1) 38,524,461	
<b>Total.....</b>	<b>(1) 162,566,276</b>	<b>(3) 9,113,711</b>
Manitoba.....	16,546,393	888,984
Saskatchewan.....	(2) 28,645,587	1,067,876
Alberta.....	29,370,399	1,859,754
British Columbia.....	41,604,416	2,378,916
<b>Total.....</b>	<b>374,462,811</b>	<b>19,772,829</b>

(1) Total investment less a proportion of debentures redeemed. (2) As at April 30, 1931.

(3) Computed on basis of 40-year debentures payable in equal annual instalments with interest at the average rate of all provincial debt.

TABLE 7.—LOCATION OF FARMS BY TYPES OF HIGHWAY

Kind of Road	Canada	Prince Edward Island	Nova Scotia	New Brunswick	Quebec
All farms.....	728,623	12,865	39,444	34,025	135,957
Number of farms located on—					
Unimproved earth.....	160,108	3,424	8,449	4,467	30,181
Improved earth.....	256,733	8,981	12,150	7,750	28,435
Gravel.....	254,159	244	18,134	20,949	62,170
Macadam.....	23,449	2	134	243	9,051
Asphalt.....	11,275	44	24	52	3,552
Concrete.....	8,793	7	27	15	543
Not reporting.....	14,109	163	525	549	2,025
Percentage of total number of farms located on—					
Unimproved earth.....	21.97	26.61	21.42	13.13	22.20
Improved earth.....	35.23	69.81	30.80	22.78	20.91
Gravel.....	34.88	1.90	45.98	61.57	45.73
Macadam.....	3.22	0.02	0.34	0.71	6.66
Asphalt.....	1.55	0.34	0.06	0.15	2.61
Concrete.....	1.21	0.05	0.07	0.05	0.40
Not reporting.....	1.94	1.27	1.33	1.61	1.49

Kind of Road	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia
All farms.....	192,174	54,199	136,472	97,408	26,079
Number of farms located on—					
Unimproved earth.....	18,731	16,495	43,632	30,990	3,739
Improved earth.....	19,550	27,541	85,653	62,063	4,610
Gravel.....	125,131	8,336	3,548	2,572	13,072
Macadam.....	12,500	17	39	—	1,463
Asphalt.....	5,617	341	33	44	1,568
Concrete.....	7,877	105	6	7	206
Not reporting.....	2,768	1,364	3,561	1,732	1,421
Percentage of total number of farms located on—					
Unimproved earth.....	9.75	30.43	31.97	31.81	14.34
Improved earth.....	10.17	50.82	62.76	63.71	17.68
Gravel.....	65.11	15.38	2.60	2.64	50.12
Macadam.....	6.51	0.03	0.03	—	5.61
Asphalt.....	2.92	0.63	0.03	0.05	6.01
Concrete.....	4.10	0.19	—	0.01	0.79
Not reporting.....	1.44	2.52	2.61	1.78	5.45

## PART II—MOTOR VEHICLES

For the first time on record the total registrations of motor vehicles in Canada showed a decrease from the total for the previous year. The registrations in Saskatchewan had shown a small decrease in 1930, but in 1931 six of the provinces and the Yukon Territory showed decreases and the increases in Prince Edward Island, Nova Scotia and Quebec were small. Canada ranked fourth in total registrations, the United States, France and the United Kingdom being the only countries with greater registrations. Canada also ranked fourth in registrations per capita. The United States came first with one motor vehicle for each 4.7 persons, Hawaii was second with one for each 7 persons, New Zealand was third with one for each 8 persons and Canada was fourth with one for each 8.6 persons, according to a survey made by the United States Department of Commerce.

A report on "Farm Facilities, 1931" issued by the Census and Vital Statistics Branch of the Bureau from data from the seventh census of Canada shows the number of motor vehicles on farms. In Saskatchewan over 70 per cent of all passenger automobiles registered in the province were owned by farmers and in Prince Edward Island over 56 per cent were on farms. There was one motor vehicle to every 1.53 farms in Ontario which was more than twice the density of the Maritime Provinces and over three times the density of Quebec. The conditions in the Prairie Provinces were very similar, the densities being 2.12, 2.10 and 2.27 farms per motor vehicle, respectively, for Manitoba, Saskatchewan and Alberta. The registration of farm tractors is not required so that these data are secured only by the periodical censuses taken by the Bureau. The total number recorded for 1931 was 105,269, of which 81,565 were on farms in the three Prairie Provinces. In 1921 only 47,455 tractors were recorded, or less than half of the number on farms in 1931.

TABLE 8.—REGISTRATIONS OF MOTOR VEHICLES, 1931

Province	Popula- tion 1931	Passenger Cars			Total Motor Vehicles				
		Total number	Number persons per car		Total number	Number of persons per motor vehicle		Increase in motor vehicle registration, 1931	
			1931	1930 <sup>a</sup>		1931	1930 <sup>a</sup>	Number	Per cent
Prince Edward Island.....	88,038	6,917	12.7	13.3	7,744	11.4	11.9	342	4.6
Nova Scotia.....	512,846	36,431	14.1	14.2	43,735	11.7	11.9	699	1.6
New Brunswick..	408,219	29,223	14.0	13.4	33,730	12.1	11.7	1,103	3.2
Quebec.....	2,874,255	146,266	19.7	19.1	179,572	16.0	15.8	596	0.3
Ontario.....	3,431,683	489,713	7.0	6.9	563,824	6.1	6.0	845	0.1
Manitoba.....	700,139	64,940	10.8	10.1	75,564	9.3	8.7	3,744	5.2
Saskatchewan....	921,785	91,846	10.0	8.3	108,563	8.5	7.0	21,298	16.4
Alberta.....	731,605	79,235	9.2	8.3	95,686	7.6	6.9	6,966	6.8
British Columbia	694,263	79,451	8.7	8.4	98,220	7.1	6.8	723	0.7
Yukon Territory..	4,230	125	33.8	29.9	198	21.4	9.1	10	4.8
N.W. Territory...	9,723	-	-	-	-	-	-	-	-
Canada.....	10,376,786	1,024,137	10.1	9.7	1,206,836	8.6	8.2	33,052	2.7

<sup>a</sup> Corrected for revised population estimate.

TABLE 9.—1931 REGISTRATIONS

		Canada	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskat- chewan	Alberta	British Columbia	Yukon
Passenger automobiles.....	New.....	-	-	5,134	3,408	12,578	39,258	-	-	-	6,391	10
	Renewals.....	-	-	31,297	25,615	133,688	459,455	-	-	-	73,060	115
	Total.....	1,024,137	6,917	36,431	29,223	146,266 <sup>1</sup>	489,713	64,940	91,846 <sup>2</sup>	79,225 <sup>3</sup>	79,451 <sup>4</sup>	125
Motor trucks.....	New.....	-	-	996	595	2,448	6,202	-	-	-	1,623	7
	Renewals.....	-	-	5,735	3,404	24,830	61,606	-	-	-	15,176	54
	Total.....	165,190	799	6,731	4,089 <sup>1</sup>	28,384	67,808	9,697	15,788	15,034	16,799	61
Motor buses.....	New.....	-	-	-	10	22	-	-	-	-	-	-
	Renewals.....	-	-	-	52	495	-	-	-	-	-	4
	Total.....	1,652	3	30	62	517	620	33	41	85	248	4
Motor cycles.....	New.....	-	-	-	40	157	-	-	-	-	211	2
	Renewals.....	-	-	-	132	2,161	-	-	-	-	1,223	6
	Total.....	9,648	25	396	178	2,318	4,070	540	306	383	1,434	8
Ambulances and hearses.....	New.....	-	-	-	( <sup>2</sup> )	-	( <sup>2</sup> )	-	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	-
	Renewals.....	-	-	-	-	-	-	-	-	-	-	-
	Total.....	-	-	-	-	-	-	-	-	-	-	-
Total.....	1931.....	1,200,627	7,744	43,578	33,552	177,485	562,220	75,210	107,981	94,727	97,932	198
	1930.....	1,232,157	7,376	42,896	34,689	178,548	562,658	78,850	127,193	101,119	98,630	208
	1929.....	1,188,674	6,116	39,876	31,718	169,105	541,912	77,259	128,426	98,720	95,344	198
Dealers' licences.....	6,209	-	157	178	2,087	1,604	354	582	959	288	-	
Total (including 1 per dealer).....	1931.....	1,206,836	7,744	43,735	33,730	179,572	563,824	75,564	108,563	95,686	98,220	198
	1930.....	1,239,888	7,402	43,036	34,833	178,976	564,669	79,308	129,861	102,652	98,943	208
	1929.....	1,195,594	6,141	40,014	31,852	169,547	544,476	77,840	130,229	99,650	95,647	198
Tractors.....	280	-	180	75	( <sup>2</sup> )	( <sup>2</sup> )	-	-	-	-	( <sup>2</sup> )	25
Trailers.....	16,381	58	702	1,116	9,996	1,760	1,097	-	Not regist'd	998	-	
Chauffeurs' licences.....	237,307	95	8,193	7,950	44,492	157,035	8,640	1,630	" licensed	3,273	5,999	
Drivers' licences.....	1,050,140	854	49,890	37,913	149,617	547,296	89,920	137,365	17,053	21,232	21,232	
Minors' licences.....	892	-	-	-	-	-	-	-	-	-	892	
In-transit licences.....	18,515	-	-	-	-	16,504	455	1,656	-	-	-	
Garage licences.....	2,338	-	-	276	1,590	-	-	298	-	174	-	
Gasoline station licences.....	4,699	-	-	101	4,514	-	-	-	-	84	-	

<sup>1</sup> Includes 96 convertible trucks and 45 ambulances and hearses.<sup>2</sup> Included in motor trucks.<sup>3</sup> Included in passenger cars.<sup>4</sup> Includes 5,417 taxi cabs.<sup>5</sup> Includes taxi cabs.<sup>6</sup> Includes 570 liveries.<sup>7</sup> Includes 443 taxi cabs.

91846  
 570  
 91276  
 79225  
 443  
 782  
 146266  
 5417  
 140849

TABLE 10.—REGISTRATIONS IN MUNICIPALITIES

	Passenger Cars	Commer- cial Vehicles	Motor Cycles
	No.	No.	No.
<i>Prince Edward Island</i> .....		Not recorded	
<i>Nova Scotia</i> —			
Amherst.....	905	163	10
Annapolis Royal.....	135	23	1
Antigonish.....	211	42	1
Berwick.....	242	35	1
Bridgetown.....	229	49	—
Bridgewater.....	419	89	9
Canso.....	47	8	—
Clarks Harbour.....	35	12	—
Dartmouth.....	752	156	14
Digby.....	187	63	—
Dominion.....	79	6	1
Glace Bay.....	635	113	8
Halifax.....	5,008	990	113
Hantsport.....	79	9	—
Inverness.....	113	5	2
Joggins.....	72	6	1
Kentville.....	493	52	3
Liverpool.....	385	65	3
Lockeport.....	62	13	—
Louisburg.....	54	20	—
Lunenburg.....	318	30	6
Mahone Bay.....	104	19	—
Middleton.....	192	34	—
Mulgrave.....	70	13	—
New Glasgow.....	1,080	156	7
New Waterford.....	380	57	4
North Sydney.....	307	65	—
Oxford.....	176	31	1
Parrsboro.....	193	26	2
Pictou.....	272	45	3
Port Hawkesbury.....	65	12	—
Port Hood.....	31	9	—
Shelburne.....	111	49	—
Springhill.....	496	47	1
Stellarton.....	467	55	3
Stewiacke.....	185	32	—
Sydney.....	1,685	353	8
Sydney Mines.....	293	40	2
Trenton.....	194	29	—
Truro.....	1,123	176	6
Wedgeport.....	16	5	—
Westville.....	322	28	2
Windsor.....	318	50	3
Wolfville.....	257	35	8
Yarmouth.....	759	155	7
<i>New Brunswick</i> —			
<i>Cities and Towns</i> —			
Andover.....	70	15	—
Bathurst.....	426	55	—
Campbellton.....	487	88	—
Charlottetown.....	185	34	—
Dalhousie.....	307	20	—
Devon.....	164	29	—
Edmundston.....	536	62	—
Fairville.....	184	48	—
Fredericton.....	1,088	165	—
Grand Falls.....	216	43	—
Hartland.....	141	20	—
Marysville.....	100	6	—
Milltown.....	169	15	—
Moncton.....	2,116	286	—
Newcastle.....	241	49	—
Perth.....	113	15	—
St. Andrews.....	184	39	—
St. George.....	119	28	—
St. John City.....	4,514	747	33
St. Leonard.....	107	11	—
St. Stephen.....	555	103	—

## REGISTRATIONS IN MUNICIPALITIES—Continued

	Passenger Cars	Commer- cial Vehicles	Motor Cycles
	No.	No.	No.
<i>New Brunswick—Concluded</i>			
<i>Cities and Towns—Concluded</i>			
Sackville.....	452	45	—
Shediac.....	157	33	—
Sussex.....	337	53	—
Woodstock.....	490	81	—
<i>Counties—</i>			
Albert.....	787	70	3
Carleton.....	1,522	195	14
Charlotte.....	1,147	168	11
Gloucester.....	570	99	11
Kent.....	792	103	6
Kings.....	1,777	194	7
Madawaska.....	498	78	13
Northumberland.....	1,044	140	6
Queens.....	1,111	98	4
Restigouche.....	636	140	7
Sunbury.....	517	48	1
St. John.....	629	101	4
Victoria.....	762	109	7
Westmoreland.....	2,113	220	30
York.....	1,860	253	21

	Motor Vehicles		Motor Vehicles
	No.		No.
<i>Quebec—</i>		<i>Quebec—Continued</i>	
<i>Cities—</i>		<i>Towns—Continued</i>	
Arvida.....	105	Bedford.....	207
Cap de la Madeleine.....	386	Belœil.....	186
Chicoutimi.....	582	Berthier.....	196
Granby.....	992	Black Lake.....	47
Grand Mere.....	366	Bromptonville.....	123
Hull.....	1,502	Buckingham.....	423
Joliette.....	744	Chateau d'Eau.....	2
Lachine.....	1,272	Chateauguay.....	160
Levis.....	536	Conteook.....	481
Longueuil.....	600	Cookshire.....	199
Montreal.....	65,321	Courville.....	49
Montreal—East.....	99	De Lery.....	14
Montreal—North.....	178	Dolbeau.....	104
Montreal—West.....	363	Donnacona.....	156
Montreal—South.....	88	Dorion.....	97
Outremont.....	1,883	Dorval.....	161
Quebec.....	9,928	Drummondville.....	847
Riviere du Loup.....	339	East Angus.....	310
Shawinigan Falls.....	971	Farnham.....	532
Sherbrooke.....	2,863	Greenfield Park.....	106
Sorel.....	437	Hampstead.....	35
St. Hyacinthe.....	1,027	Huntingdon.....	506
St. Jean.....	1,011	Iberville.....	328
St. Lambert.....	739	Ile Dorval.....	1
Thetford Mines.....	643	Isle Mulgine.....	45
Trois Rivieres.....	2,411	Jonquiere.....	333
Valleyfield.....	897	Kenogami.....	195
Verdun.....	3,343	Lachute.....	775
Westmount.....	2,787	Laprairie.....	296
<i>Towns—</i>		Lasalle.....	258
Acton Vale.....	118	L'Assomption.....	192
Amos.....	137	La Tuque.....	236
Arthabaska.....	76	Lauzon.....	226
Aylmer.....	290	Laval des Rapides.....	99
Bagotville.....	81	Laval sur le Lac.....	5
Baie d'Urfe.....	12	Lennoxville.....	434
Barkmere.....	36	Louiseville.....	136
Beaconsfield.....	40	Magog.....	536
Beauceville.....	161	Maple Grove.....	5
Beauharnois.....	480	Marieville.....	220
Beauport.....	269	Megantic.....	163

## REGISTRATIONS IN MUNICIPALITIES—Continued

	Motor Vehicles		Motor Vehicles
	No.		No.
<i>Quebec—Continued</i>		<i>Quebec—Concluded</i>	
<i>Towns—Concluded</i>		<i>Counties—Concluded</i>	
Montmagny.....	293	Frontenac.....	678
Mont Royal.....	197	Gaspe.....	876
Nicolet.....	126	Hochelaga.....	9
Noranda.....	116	Hull.....	2,001
Pointe-aux-Trembles.....	147	Huntingdon.....	1,006
Pointe Claire.....	281	Iberville.....	465
Port Alfred.....	61	Iles de la Madeleine.....	29
Quebec West.....	43	Jacques Cartier.....	799
Racine.....	3	Joliette.....	813
Richmond.....	376	Kamouraska.....	520
Rigaud.....	133	Labelle.....	1,147
Rimouski.....	303	Lac St-Jean.....	1,075
Roberval.....	208	Laprairie.....	794
Rouyn.....	209	L'Assomption.....	604
Scotstown.....	108	Laval.....	1,412
Ste-Agathe des Monts.....	255	Levis.....	773
Ste-Anne de Bellevue.....	255	L'Islet.....	580
St-Jerome.....	599	Lotbiniere.....	908
St-Joseph d'Alma.....	131	Maskinonge.....	308
St-Laurent.....	584	Matane.....	804
St-Leonard de Port Maurice.....	134	Matapedia.....	471
St-Michel.....	117	Megantic.....	894
St-Ours.....	45	Missisquoi.....	1,433
St-Pierre.....	209	Montcalm.....	571
Ste-Rose.....	307	Montmagny.....	341
Ste-Therese.....	308	Montmorency.....	563
St-Tite.....	52	Napierville.....	645
Terrebonne.....	259	Nicolet.....	844
Trois Pistoles.....	62	Papineau.....	1,402
Victoriaville.....	587	Pontiac.....	1,250
Waterloo.....	233	Portneuf.....	1,350
Windsor.....	186	Quebec.....	1,045
<i>Counties—</i>		Richelieu.....	337
Abitibi.....	368	Richmond.....	1,297
Argenteuil.....	1,201	Rimouski.....	517
Arthabaska.....	684	Rouville.....	1,060
Bagot.....	679	Saguenay.....	115
Beauce.....	1,390	Shofford.....	951
Beauharnois.....	511	Sherbrooke.....	328
Bellechasse.....	512	Soulanges.....	718
Berthier.....	671	Stanstead.....	1,521
Bonaventure.....	1,001	St-Hyacinthe.....	598
Brome.....	1,365	St-Jean.....	604
Chambly.....	761	St-Maurice.....	426
Champlain.....	1,131	Temiscamingue.....	382
Charlevoix.....	639	Temiscouata.....	1,031
Chateauguay.....	1,216	Terrebonne.....	1,106
Chicoutimi.....	508	Vaudreuil.....	813
Compton.....	1,389	Vercheres.....	553
Deux-Montagnes.....	1,354	Wolfe.....	715
Dorchester.....	802	Yamaska.....	544
Drummond.....	644		

	Passenger Cars	Com- mercial Vehicles	Motor Cycles
	No.	No.	No.
<i>Ontario—</i>			
<i>Cities—</i>			
Belleville.....	2,487	369	17
Brantford.....	4,358	736	39
Chatham.....	3,068	515	12
Fort William.....	2,585	436	9
Galt.....	2,193	264	26
Guelph.....	3,250	466	23
Hamilton.....	20,846	3,286	290
Kingston.....	3,445	563	68
Kitchener.....	4,455	614	68

## REGISTRATIONS IN MUNICIPALITIES—Continued

	Passenger Cars	Com- mercial Vehicles	Motor Cycles
	No.	No.	No.
<i>Ontario—Concluded</i>			
<i>Cities—Concluded</i>			
London.....	11,913	1,768	122
Niagara Falls.....	4,122	536	24
North Bay.....	1,683	277	6
Oshawa.....	4,139	430	54
Ottawa.....	14,691	1,896	211
Owen Sound.....	1,911	220	7
Peterborough.....	3,351	475	29
Port Arthur.....	2,317	328	12
Sarnia.....	3,112	303	9
Sault Ste. Marie.....	3,151	375	12
St. Catharines.....	4,103	757	28
St. Thomas.....	3,326	364	18
Stratford.....	2,719	310	38
Sudbury.....	3,914	400	20
Toronto.....	100,281	15,180	1,537
Welland.....	2,352	326	2
Windsor.....	11,262	1,763	62
Woodstock.....	2,769	296	21
<i>Counties—</i>			
Algoma.....	2,784	459	15
Brant.....	3,433	468	17
Bruce.....	6,628	558	15
Carleton.....	4,591	661	35
Dufferin.....	2,829	260	8
Dundas.....	2,672	349	17
Durham.....	3,861	440	16
Elgin.....	5,138	610	15
Essex.....	14,979	2,087	26
Frontenac.....	2,978	445	8
Glengarry.....	1,989	194	8
Grenville.....	2,508	304	5
Grey.....	7,027	475	8
Haldimand.....	4,540	469	10
Haliburton.....	299	61	2
Halton.....	4,610	744	31
Hastings.....	7,348	910	26
Huron.....	8,236	686	25
Kenora.....	1,167	267	9
Kent.....	9,007	998	25
Lambton.....	7,487	636	9
Lanark.....	4,619	467	19
Leeds.....	5,578	686	20
Lennox and Addington.....	2,801	305	17
Lincoln.....	4,359	1,082	37
Manitoulin.....	1,659	160	1
Middlesex.....	9,415	995	34
Muskoka.....	2,499	344	14
Nipissing.....	2,566	371	4
Norfolk.....	5,209	831	36
Northumberland.....	4,773	702	13
Ontario.....	5,565	594	51
Oxford.....	7,325	1,144	26
Parry Sound.....	2,669	330	—
Peel.....	5,027	928	37
Perth.....	5,823	636	19
Peterborough.....	3,409	358	9
Prescott.....	2,012	231	6
Prince Edward.....	3,071	442	12
Rainy River.....	1,426	356	9
Renfrew.....	5,205	528	14
Russell.....	1,757	351	26
Simcoe.....	11,948	1,355	52
Stormont.....	3,438	468	38
Sudbury.....	158	99	5
Thunder Bay.....	1,125	250	8
Temiskaming.....	5,350	610	60
Victoria.....	4,908	996	15
Waterloo.....	6,887	804	57
Welland.....	7,729	1,339	42
Wellington.....	6,116	571	38
Wentworth.....	5,531	1,316	47
York.....	17,190	2,989	208

## REGISTRATIONS IN MUNICIPALITIES—Continued

	Passenger Cars	Commercial Vehicles		Passenger Cars	Commercial Vehicles
	No.	No.		No.	No.
<i>Manitoba—</i>			<i>Manitoba—Con.</i>		
<i>Cities—</i>			<i>Rural Municipalities—</i>		
Brandon.....	1,925	292	<i>Continued</i>		
Portage la Prairie.....	694	96	Assiniboia.....	189	57
St. Boniface.....	1,339	261	Bifrost.....	294	25
Winnipeg.....	21,746	3,477	Birtle.....	242	6
<i>Winnipeg Suburbs—</i>			Blanshard.....	276	19
Brooklands.....	106	13	Boulton.....	52	3
Fort Garry.....	379	87	Brenda.....	402	46
Kildonan East.....	665	52	Brookhead.....	189	30
Kildonan West.....	466	46	Cameron.....	310	52
St. James.....	1,268	109	Cartier.....	173	51
St. Vital.....	931	123	Charleswood.....	93	35
Tuxedo.....	133	15	Chatfield.....	58	7
<i>Towns—</i>			Clanwilliam.....	173	21
Beausejour.....	120	48	Coldwell.....	212	13
Birtle.....	92	14	Cornwallis.....	109	12
Boissevain.....	124	31	Cypress-North.....	379	40
Carberry.....	80	18	Cypress-South.....	289	45
Carman.....	174	29	Daly.....	225	26
Dauphin.....	401	81	Dauphin.....	384	30
Deloraine.....	132	26	De Salaberry.....	226	35
Emerson.....	124	16	Dufferin.....	425	37
Gladstone.....	105	7	Edward.....	245	25
Grandview.....	70	14	Ellice.....	93	26
Hartney.....	58	19	Elton.....	336	34
Killarney.....	114	27	Eriksdale.....	145	15
Melita.....	90	9	Ethelbert.....	76	4
Minnedosa.....	219	16	Franklin.....	386	42
Morden.....	181	24	Gilbert Plains.....	208	3
Morris.....	86	33	Gimli.....	163	16
Nepawa.....	237	48	Glenella.....	105	12
Oak Lake.....	60	12	Glenwood.....	273	32
Rapid City.....	64	5	Grandview.....	200	12
Rivers.....	84	8	Grey.....	373	76
Russell.....	73	16	Hamiota.....	367	21
Selkirk.....	264	58	Hanover.....	432	107
Souris.....	159	33	Harrison.....	234	17
Stonewall.....	119	28	Hillsburg.....	51	6
Swan River.....	105	17	Kildonan—North.....	88	57
The Pas.....	72	43	Kildonan—Old.....	48	33
Transcona.....	383	43	La Broquerie.....	81	25
Virden.....	212	29	Lac du Bonnet.....	179	40
Winnipeg Beach.....	30	11	Lakeview.....	101	14
<i>Villages—</i>			Langford.....	216	8
Binscarth.....	49	9	Lansdowne.....	174	13
Elkhorn.....	72	11	Lawrence.....	87	15
Foxwarren.....	16	1	Lorne.....	541	49
Garson.....	7	6	Louise.....	524	38
Gilbert Plains.....	112	15	Macdonald.....	476	118
Gimli.....	31	27	McCreary.....	154	26
Gretna.....	50	4	Miniota.....	397	28
Hamiota.....	81	10	Minitonas.....	203	16
Manitou.....	91	17	Minto.....	239	5
Napinka.....	12	1	Montcalm.....	270	47
Pilot Mound.....	77	6	Morris.....	465	107
Plum Coulee.....	33	6	Morton.....	402	39
Roblin.....	23	11	Mossey River.....	83	9
Rosburn.....	41	3	Norfolk—South.....	377	26
Shoal Lake.....	134	15	Norfolk—North.....	494	43
St. Rose du Lac.....	15	9	Oakland.....	309	33
Taillon.....	64	13	Ochre River.....	134	15
Wawanesa.....	47	13	Odanah.....	189	3
Winkler.....	83	10	Pembina.....	571	58
Winnipegosis.....	48	10	Piney.....	90	15
<i>Rural Municipalities—</i>			Pipestone.....	513	68
Albert.....	183	27	Portage la Prairie.....	718	139
Archie.....	176	12	Rhineland.....	836	62
Argyle.....	359	40	Ritchoy.....	154	66
Armstrong.....	78	10	Riverside.....	248	30
Arthur.....	296	52	Roblin.....	370	25
			Rockwood.....	499	111
			Roland.....	303	43
			Rosedale.....	379	25

## REGISTRATIONS IN MUNICIPALITIES—Continued

	Passenger Cars	Commercial Vehicles		Passenger Cars	Commercial Vehicles
	No.	No.		No.	No.
<i>Manitoba—Continued</i>			<i>Manitoba—Concluded</i>		
<i>Rural Municipalities—</i>			<i>Rural Municipalities—</i>		
<i>Continued</i>			<i>Concluded</i>		
Rosburn.....	132	2	St. Francis Xavier...	55	26
Rosser.....	206	76	St. Laurent.....	70	10
Russell.....	197	12	St. Paul—East.....	92	57
Saskatchewan.....	237	14	St. Paul—West.....	47	25
Shellmouth.....	191	19	Ste. Rose.....	104	7
Shell River.....	191	20	Tache.....	200	54
Shoal Lake.....	126	5	Thomson.....	277	30
Sifton.....	230	42	Turtle Mountain.....	470	38
Siglunes.....	120	16	Victoria.....	225	30
Silver Creek.....	147	15	Victoria Beach.....	3	5
Sprague.....	81	19	Wallace.....	419	20
Springfield.....	444	152	Westbourne.....	315	23
Stanley.....	611	47	Whitehead.....	275	36
Strathclair.....	240	16	Whitemouth.....	282	21
Strathcona.....	251	20	Whitewater.....	349	41
Swan River.....	515	50	Winchester.....	289	23
St. Andrews.....	302	160	Woodlands.....	272	42
St. Anne.....	211	43	Woodlea.....	53	3
St. Clements.....	201	124	Woodworth.....	313	46

	Passenger Cars	Commer- cial Vehicles	Motor Cycles
	No.	No.	No.
<i>Saskatchewan—</i>			
Regina.....	7,279	1,133	56
Saskatoon.....	5,570	795	50
Moose Jaw.....	2,505	301	42
Prince Albert.....	1,263	166	4
Yorkton.....	649	83	2
Weyburn.....	724	74	2
North Battleford.....	803	81	5
Swift Current.....	806	103	10
<i>Alberta—</i>			
Calgary.....	12,745	1,921	93
Edmonton.....	10,089	1,525	119
Lethbridge.....	1,751	363	21
Medicine Hat.....	1,277	195	3
<i>British Columbia—</i>			
Alberni.....	535	160	
Anxox.....	5	14	
Ashcroft.....	136	61	
Atlin.....	16	9	
Clinton.....	99	27	
Cranbrook.....	1,456	301	
Cumberland.....	1,284	324	
Duncan.....	1,234	342	
Fernie.....	793	177	
Fort Fraser.....	362	146	
Golden.....	284	111	
Grand Forks.....	334	110	
Greenwood.....	202	52	
Kamloops.....	1,296	371	
Kaslo.....	86	34	
Lillooet.....	119	57	
Merritt.....	315	87	
Nanaimo.....	2,266	563	
Nelson.....	1,645	471	
New Denver.....	98	30	
New Westminster.....	9,071	2,113	
Panticon.....	1,581	420	
Pouce Coupe.....	334	108	
Powell River.....	563	151	
Prince George.....	483	149	

REGISTRATIONS IN MUNICIPALITIES—*Concluded*

	Passenger Cars	Commercial Vehicles	Motor Cycles
	No.	No.	No.
<i>British Columbia—Concluded</i>			
Prince Rupert.....	355	223	
Princeton.....	378	90	
Queen Charlotte.....	17	24	
Quesnel.....	181	71	
Revelstoke.....	604	160	
Rossland.....	1,383	280	
Salmon Arm.....	488	126	
Smithers.....	393	118	
Stewart.....	52	30	
Vancouver.....	32,270	5,802	
Vernon.....	3,087	948	
Victoria.....	15,412	2,377	
Williams Lake.....	293	98	
Wilmer.....	189	74	
<i>Yukon Territory—</i>			
Dawson.....	74	29	1
Mayo.....	25	24	6
Whitehorse.....	30	34	1

TABLE 11.—MOTOR VEHICLES ON FARMS, 1931

Province	Number of farms	Motor Vehicles			Number of farms per motor vehicle (exclusive of tractors)	Percentage passenger cars on farms to total passenger registration
		Passenger Cars	Motor trucks	Tractors		
Prince Edward Island.....	12,865	3,885	369	176	3.31	56.2
Nova Scotia.....	39,444	10,297	1,704	423	3.83	28.3
New Brunswick.....	34,025	10,425	1,126	289	3.26	35.7
Quebec.....	135,957	26,877	5,152	2,344	5.06	18.4
Ontario.....	192,174	125,716	14,586	19,070	1.53	25.7
Manitoba.....	54,199	25,588	3,260	14,315	2.12	39.4
Saskatchewan.....	136,472	65,093	10,937	43,283	2.10	70.9
Alberta.....	97,408	42,811	7,320	23,967	2.27	54.0
British Columbia.....	26,079	10,584	3,948	1,402	2.46	13.3
Canada.....	728,623	321,276	48,402	105,269	1.97	31.4

*Revenues from Motor Vehicle Registrations.*—The revenues collected by provincial departments from motorists have grown rapidly, increasing from \$9,222,057 in 1922 to \$42,821,508 in 1930 and 1931 was the first year to show a decrease with a total of \$42,231,027. The heaviest decrease was in Alberta where the loss amounted to \$1,022,246, or 25.85 per cent. Manitoba, Saskatchewan and British Columbia would have shown lower revenues but for the increase in the gasoline tax rate from 3 to 5 cents per gallon in April, May and March, 1930. These three provinces boosted the rate again in the spring of 1932, Manitoba and British Columbia to 7 cents and Saskatchewan to 6 cents per gallon. In addition to the provincial taxes, the Dominion Government collected \$7,038,847 in import duties and \$620,879 in excise taxes for automobiles and motor vehicle parts and accessories, making a total of \$7,659,726. This was exclusive of the sales tax on motor vehicles.

The dates on which the different rates of gasoline tax became effective in each province are shown in table 15. Alberta was the first province to impose a gasoline tax and started in 1922 with 2 cents per gallon. Manitoba and British Columbia followed in April and December, 1923, Prince Edward Island and Quebec in 1924, Ontario in 1925, Nova Scotia and New Brunswick in 1926 and Saskatchewan in 1928.

TABLE 12.—REVENUE COLLECTED FROM MOTOR VEHICLE REGISTRATIONS AND GASOLENE TAX, BY PROVINCES

	Total for Canada	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskat- chewan	Alberta	British Columbia	Yukon
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Total revenue—											
1922*	9,222,057	46,801	426,625	302,323	1,979,470	3,477,430	528,193	846,356	716,873	897,075	911
1923	11,427,510	52,503	486,279	376,966	2,231,494	4,292,504	797,355	1,125,226	997,947	1,066,359	877
1924	12,681,721	68,812	535,193	452,490	2,091,825	4,784,697	935,412	1,221,384	1,152,173	1,438,604	1,131
1925	17,508,359	83,666	576,326	502,148	3,219,919	7,622,551	1,058,088	1,360,575	1,288,093	1,795,846	1,147
1926	21,795,184	100,097	808,323	686,813	3,799,552	9,777,452	1,284,048	1,692,090	1,583,714	2,060,975	1,520
1927	24,535,706	124,854	968,428	850,394	4,835,871	10,151,230	1,307,356	1,868,565	2,032,344	2,394,950	1,714
1928	31,377,705	161,660	1,341,111	995,151	6,905,742	11,205,178	1,638,021	3,480,784	2,914,710	2,733,469	1,879
1929	41,076,405	223,570	1,645,862	1,281,741	8,430,883	16,523,438	1,786,685	3,838,809	4,180,046	3,163,075	2,296
1930	42,821,508	274,360	1,904,205	1,536,784	9,373,585	16,323,036	2,179,672	3,493,105	3,953,975	3,780,348	2,438
1931	42,231,027	248,565	2,067,694	1,574,035	9,895,772	16,606,222	2,115,259	2,924,126	2,931,729	3,865,253	2,372
Increase 1931 over 1930—											
Amount	-590,481	-25,795	163,489	37,251	522,187	283,186	-64,413	-568,979	-1,022,246	84,905	-66
Per cent.	-1.38	-9.40	8.59	2.42	5.57	1.73	-2.96	-16.29	-25.85	2.25	-2.71
Revenues from registra- tions—											
1930	20,166,283	145,994	1,052,480	876,987	5,298,217	5,566,200	1,079,894	1,954,549	2,014,927	2,174,597	2,438
1931	19,684,908	135,698	1,189,612	877,554	5,490,612	5,795,308	1,020,559	1,613,979	1,459,661	2,099,553	2,372
Increase 1931 over 1930—											
Amount	-481,375	-10,296	137,132	567	192,395	229,108	-59,335	-340,570	-555,266	-75,044	-66
Per cent.	-2.38	-7.05	13.03	0.65	3.63	4.12	-5.49	-17.42	-27.56	-3.45	-2.71
Revenue from gasolene tax											
1930	22,655,225	128,366	851,725	659,797	4,075,368	10,756,836	1,099,778	1,538,556	1,939,048	1,605,751	
1931	22,546,119	112,867	878,082	696,481	4,405,160	10,810,914	1,094,700	1,310,147	1,472,068	1,765,700	
Increase 1931 over 1930—											
Amount	-109,106	-15,499	26,357	36,684	329,792	54,078	-5,078	-228,409	-466,980	159,949	
Per cent.	-0.48	-12.07	3.09	5.56	8.09	0.50	-0.46	-14.85	-24.08	9.96	

\*No gasolene tax included.

TABLE 13.—REVENUES 1931

	Canada	Prince Edward Island	Nova Scotia	New Brunswick a	Quebec	Ontario a	Mani- toba	Saskat- chewan	Alberta	British Colum- bia	Yukon
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Passenger automobiles.....	12,248,011	117,784	807,446	612,445	b2,977,026	3,066,140	778,490	c1,229,698	d1,075,320	1,582,442	1,220
Motor trucks.....	4,327,995	13,818	221,098	165,795	1,364,424	1,482,243	114,456	292,922	258,679	413,660	900
Motor cycles.....	35,190	125	2,336	-	7,523	11,770	2,353	1,758	1,773	7,528	24
Trailers.....	102,990	58	-	-	27,900	60,094	1,571	3,274	-	4,093	-
Ambulances and hearses.....	940	-	-	940	-	-	-	e	-	-	-
Chauffeurs' licences.....	522,666	511	39,150	19,336	222,450	178,092	16,642	8,150	9,845	28,490	-
Other drivers' licences.....	1,495,431	854	51,719	37,914	748,085	530,960	82,790	16,424	8,752	17,933	-
Dealers' licences—											
Passenger.....						29,106					
Motor truck.....	140,346	1,345	7,382	6,613	20,870	6,245	9,750	18,495	23,575	16,459	224
Motor cycle.....						147				135	
Garage licences.....	28,658	-	-	1,885	-	25,605	-	298	870	-	-
Gasolene station licences.....	20,450	-	-	3,497	-	-	-	16,533	420	-	-
In transit licences.....	9,292	-	-	-	-	8,514	-	778	-	-	-
Duplicate cards and badges.....	15,774	-	403	-	2,591	8,804	1,405	126	721	1,724	-
Transfer of cars.....	264,508	-	22,894	-	27,367	143,942	11,841	25,523	8,612	24,325	4
Mileage tax on motor buses.....			1,708	4,017	16,292	99,322	-	-	17,003	-	-
Mileage tax on motor trucks.....	202,806	-	-	-	23,748	-	-	-	40,716	-	-
Fines.....	198,637	-	14,124	2,012	73,026	93,954	-	-	12,757	2,764	-
Miscellaneous.....	71,214	1,203	21,352	23,100	3,058	20,622	1,261	-	618	-	-
Total.....	19,684,908	135,698	1,189,612	877,554	5,490,612	5,795,308	1,020,559	1,613,970	1,459,661	2,099,553	2,372
Gasolene tax.....	22,546,119	112,867	878,082	696,481	4,405,160	10,810,914	1,094,700	1,310,147	1,472,068	1,765,700	No tax
Grand Total.....	42,231,027	248,565	2,067,694	1,574,035	9,895,772	16,606,222	2,115,259	2,924,126	2,931,729	3,865,253	2,372

a Revenue figures are for fiscal year November 1, 1930, to October 31, 1931.

b Includes 179,519 for taxi cabs.

c Includes 4,560 for taxi cabs.

d Includes 10,324 for taxi cabs.

e Included in private and livery.

TABLE 14.—IMPORT DUTIES AND EXCISE TAXES (EXCLUSIVE OF SALES TAX)  
COLLECTED ON MOTOR VEHICLES AND PARTS, CALENDAR YEAR 1931

IMPORT DUTIES	
Tire casings.....	\$ 107,159
Inner tubes.....	5,474
Solid tires.....	7,354
Auto engines.....	1,326,029
Automobiles, freight.....	315,086
Automobiles, passenger.....	1,290,811
Automobile parts.....	3,901,977
Motor cycles.....	44,742
Motor vehicles, n.o.p.....	32,167
Motor cycles and vehicle parts.....	8,048
<b>Total.....</b>	<b>\$ 7,038,847</b>
EXCISE TAXES	
Domestic automobiles.....	309,290
Imported automobiles.....	311,580
<b>Total.....</b>	<b>\$ 620,879</b>
<b>Grand total.....</b>	<b>\$ 7,659,726</b>

TABLE 15.—DATES WHEN GASOLENE ACTS BECAME EFFECTIVE AND  
RATES OF TAX

Province	Dates gasolene rates became effective	Rates per gallon
Prince Edward Island.....	May 1, 1924.....	2 cents
	March 31, 1926.....	3 "
	May 1, 1928.....	5 "
	May 2, 1932.....	6 "
Nova Scotia.....	March 15, 1926.....	3 cents
	March 11, 1927.....	5 "
	April 1, 1932.....	6 "
New Brunswick.....	April 30, 1926.....	3 cents
	December 1, 1928.....	5 "
	April 1, 1932.....	7 "
Quebec.....	April 1, 1924.....	2 cents
	April 1, 1925.....	3 "
	April 1, 1928.....	5 "
	December 17, 1931..	6 "
Ontario.....	April 14, 1925.....	3 cents
	May 27, 1929.....	5 "
	March 25, 1932.....	6 "
Manitoba.....	April 27, 1923.....	1 cent
	March 5, 1925.....	3 cents
	April 14, 1930.....	5 "
	May 7, 1932.....	7 " (refund 5c.)
Saskatchewan.....	May 1, 1928.....	3 cents
	March 27, 1930.....	5 "
	May 1, 1932.....	6 "
Alberta.....	April 30, 1922.....	2 cents
	June 1, 1929.....	5 " (refund 4c.)
British Columbia.....	December 21, 1923..	3 cents
	March 25, 1930.....	5 "
	April 18, 1932.....	7 "

P.E.I.—6 cents June 1 to September 1, 1931.

*Consumption of Gasolene.*—The gross consumption of gasolene in Canada for 1931 was 554,989,325 gallons, as compared with 588,852,891<sup>1</sup> gallons in 1930. In the majority of provinces refunds of gasolene tax are made for all but gasolene used by motor vehicles on highways and although refunds are not made in some provinces for gasolene used in pleasure boats, and a few other uses, the bulk of the gasolene which is taxed is consumed by motor vehicles. The total number of gallons taxed, which is shown in table 16 as used by motor vehicles was 461,165,941 as against 467,433,693 in 1930 which was a decrease of 1.3 per cent. The largest decrease was in Alberta where the consumption by motor vehicles fell off by 32.6 per cent. It is possible that crude naphtha from the Alberta oil wells sold for purposes other than refining displaced gasolene for motor fuel and affected this apparent decrease. In 1930 only 507,080 gallons of this fuel were sold whereas in 1931 the sales amounted to 2,873,420 gallons. Even with all of this naphtha credited to motor vehicles the decrease was over 25 per cent. New Brunswick also showed a heavy decrease of over 7 million gallons.

TABLE 16.—GASOLENE CONSUMPTION, 1931

Province	By motor vehicles	Average number of gallons per registered motor vehicle	For all uses	Consumption by motor vehicles	
				Increase over 1930	
	Gallons	Gallons	Gallons	Gallons	Per cent
Prince Edward Island.....	2,614,970	338	3,021,691	119,858	4.8
Nova Scotia.....	18,176,943	416	21,189,937	679,150	3.9
New Brunswick.....	13,816,672	410	15,019,994	-7,831,644	- 36.2
Quebec.....	91,816,749	511	97,608,511	8,549,788	10.0
Ontario.....	225,320,078	400	249,543,831	6,250,628	2.9
Manitoba.....	22,142,728	293	30,307,724	-2,369,939	- 9.7
Saskatchewan.....	26,479,689	244	49,449,699	-4,768,760	- 15.3
Alberta.....	24,746,025	259	43,478,465	-11,975,703	- 32.6
British Columbia.....	36,052,087	367	45,369,473	5,278,870	17.2
Total.....	461,165,941	382	554,989,325	-6,267,752	- 1.3

*Tourist Automobiles.*—Under the regulations of the Department of National Revenue, each motor tourist entering Canada is required to take out a permit for the motor vehicle according to the length of time it remains in Canada, viz., (1) for a period not exceeding 24 hours, or good only for the day the car enters, (2) for a period exceeding 24 hours but not exceeding 60 days (this permit is taken out by all motor tourists not returning the same day they enter and returning in 60 days or less), and (3) for a period exceeding 60 days but not exceeding 6 months. The Customs' requirements for each of these permits are stated in Part III. Canadian cars leaving Canada for touring purposes in the United States are likewise required to take out an export permit, but only one form of permit is used, whether the car remains in the United States one day or six months. Cars crossing the border every day, however, are required to take out only a season permit, and consequently the total number of permits does not represent the total number of cars crossing the border although it does fairly accurately represent the number of tourists' cars. The Bureau of Statistics has issued a separate report, "The Tourist Trade in Canada for 1931" which estimates the expenditures by United States automobile tourists in Canada at \$188,129,000, or \$24,280,000 less than the estimate for 1930. This expenditure was 75 per cent of the total estimated expenditures of all tourists in Canada during the year.

<sup>1</sup>Revised.

Table 17 shows the number of cars entered for the different periods from 1927 to 1931 inclusive and table 18 shows the entries for 1931 by ports of entry. These entries and departures via the ports in the various provinces should not be confused with the automobiles registered in the various provinces which were touring in the United States or the United States automobiles touring in any province, since a car may enter via the port in one province and spend the majority of the time in another province, and Canadian cars registered in one province may leave via ports in another province, such as Prince Edward Island cars leaving via New Brunswick ports for touring in the United States.

TABLE 17.—SUMMARY OF TOURIST AUTOMOBILES, 1927-1931

At Ports in	Year	Admitted for Period			Canadian cars exported for touring purposes
		Not exceeding 24 hours	Not exceeding 60 days	Exceeding 60 days and not more than 6 months	
Maritime Provinces.....	1931	241,076	60,662	72	9,437
	1930	243,375	57,876	70	6,944
	1929	158,860	39,034	58	27,872
	1928	144,901	32,269	53	34,701
	1927	136,172	23,457	634	48,893
Quebec.....	1931	244,770	400,748	417	132,576
	1930	268,538	380,020	1,412	140,684
	1929	203,668	319,942	215	145,714
	1928	193,811	271,871	21	98,534
	1927	191,438	190,261	655	105,370
Ontario.....	1931	2,834,427	857,095	198	234,077
	1930	3,470,589	693,607	407	427,185
	1929	2,922,536	582,128	836	283,250
	1928	2,253,334	507,957	871	236,606
	1927	2,000,399	413,938	1,496	227,758
Manitoba.....	1931	30,144	14,451	13	14,469
	1930	35,043	15,891	93	15,299
	1929	33,333	15,166	15	15,375
	1928	34,488	13,653	6	18,989
	1927	18,957	10,871	94	20,084
Saskatchewan.....	1931	19,629	4,855	3	8,145
	1930	20,577	5,734	289	9,875
	1929	15,780	5,863	10	17,736
	1928	11,904	5,938	28	10,762
	1927	4,317	5,764	251	7,946
Alberta.....	1931	26,592	5,362	-	2,819
	1930	24,345	6,174	-	2,939
	1929	23,215	6,350	2	2,795
	1928	8,164	4,231	77	2,086
	1927	6,252	3,276	9	1,697
British Columbia.....	1931	42,854	126,580	41	135,332
	1930	47,633	137,728	27	143,998
	1929	59,196	122,531	71	126,830
	1928	52,135	109,626	47	118,193
	1927	52,552	92,831	176	84,181
Canada.....	1931	3,439,492	1,469,753	744	536,855
	1930	4,110,100	1,297,030	2,328	746,924
	1929	3,416,588	1,091,014	1,207	619,572
	1928	2,698,737	945,545	1,173	519,871
	1927	2,410,087	740,398	3,315	495,929

TABLE 18.—TOURIST AUTOMOBILES, 1931

	Admitted for Period			Exported for touring purposes
	Not exceeding 24 hours	Not exceeding 60 days	Exceeding 60 days and not more than 6 months	
<i>Maritime Provinces—</i>				
<i>Prince Edward Island—</i>				
Charlottetown.....	-	-	-	-
Port Borden.....	-	-	-	-
Souris.....	-	-	1	-
Summerside.....	-	-	-	-
<i>Nova Scotia—</i>				
Annapolis Royal.....	-	-	-	-
Digby.....	-	3	-	-
Halifax.....	-	83	6	12
Truro.....	-	-	15	-
Yarmouth.....	-	1,622	12	80
<i>New Brunswick—</i>				
Andover.....	25,802	5,668	2	459
Aroostook Jct.....	624	-	-	1
Bloomfield.....	3,284	309	-	1,408
Centreville.....	12,680	1,702	1	1,905
Chair.....	32,121	3,367	1	309
Connors.....	132	68	-	9
Debec.....	93	7	-	1
Edmundston.....	75,253	5,973	-	268
Fosterville.....	3,849	296	-	114
Four Falls.....	4,871	1,056	-	40
Grand Falls.....	10,373	5,005	1	421
Green River.....	519	107	-	-
Milltown.....	-	690	-	118
McAdam Jct.....	-	5	-	-
Richmond Road.....	42,561	11,029	-	1,324
River de Chute.....	9,173	1,117	-	35
St. Andrews.....	-	-	-	-
St. Croix.....	13,113	1,468	-	185
St. Hilaire.....	72	33	-	-
Saint John.....	-	119	16	2
St. Leonard.....	1,857	5,040	-	255
St. Stephen.....	1,641	15,650	13	2,447
Union Corner.....	3,053	213	-	39
Upper Mills.....	5	26	-	5
Woodstock.....	-	6	4	-
Total.....	241,076	60,662	72	9,437
<i>Quebec—</i>				
Abercorn.....	18,369	8,771	2	6,381
Armstrong.....	535	14,938	4	1,568
Athelstan.....	179	988	-	277
Beobe Jct.....	7,451	1,008	-	230
Cantic.....	450	36,002	-	5,840
Clarenceville.....	880	872	-	434
Comin's Mills.....	4,868	10,462	-	1,264
Covey Hill.....	-	1,560	-	430
Dundee.....	9,812	11,212	-	9,629
Estecourt.....	40	23	-	1
Franklin Centre.....	-	1,120	-	338
Frelighsburg.....	7,309	7,004	-	1,341
Frontier.....	-	490	1	269
Glen Sutton.....	4,655	6,706	-	1,487
Hemmingford.....	-	5,790	-	2,682
Herdman.....	3,012	7,968	-	3,285
Hereford Road.....	35,641	7,993	-	9,272
Highwater.....	9,758	19,913	-	4,983
Lac Frontiere.....	-	124	-	-
Lacolle.....	17,241	52,007	17	20,879
Mansonville.....	3,479	636	-	668
Montreal.....	-	126	39	82
Noyan.....	3,149	13,981	-	3,110
Phillipsburg.....	1,549	80,137	-	11,722
Pigeon Hill.....	1,114	3,153	-	829
Quebec.....	-	81	12	27

TABLE 18.—TOURIST AUTOMOBILES, 1931—Continued

	Admitted for Period			Exported for touring purposes
	Not exceeding 24 hours	Not exceeding 60 days	Exceeding 60 days and not more than 6 months	
<i>Quebec—Concluded</i>				
Rock Island.....	58,919	25,943	17	23,295
Stanhope.....	16,179	25,720	—	4,765
St. Andre Road.....	11,800	18,094	—	5,644
St. Agnes de Dundee.....	101	27	—	212
St. Armand.....	2,260	3,617	—	503
St. Pamphile.....	—	9	—	—
St. Regis.....	17,119	1,306	—	549
St. Zacharie.....	68	460	325	99
Trout River.....	6,154	29,218	—	10,028
Woburn.....	2,679	3,289	—	444
Total.....	244,770	400,748	417	132,576
<i>Ontario—</i>				
Aultsville.....	425	3,092	—	924
Bridgeburg.....	871,957	286,035	52	95,539
Brockville.....	3,627	9,029	8	3,331
Cobourg.....	—	112	10	11
Courtright.....	2,679	1,110	—	327
Fort Frances.....	26,183	1,926	—	961
Fort William.....	—	72	—	1
Gananoque.....	7	4,671	4	543
Kingston.....	56	579	16	141
Morrisburg.....	1,696	3,441	—	1,606
Niagara Falls.....	565,112	173,036	18	68,691
Pigeon River.....	366	10,558	—	2,565
Port Arthur.....	—	3	—	8
Port Dover.....	—	1,884	—	97
Port Lambton.....	5,104	1,614	—	324
Port Stanley.....	—	1,083	—	69
Prescott.....	5,936	18,245	—	5,510
Rainy River.....	1,095	532	—	1,821
Rockport.....	100	7,056	—	518
Sarnia.....	33,733	46,668	8	11,105
Sault Ste. Marie.....	17,329	6,929	6	1,353
Sombra.....	3,551	917	—	477
Toronto.....	—	206	20	70
Walkerville.....	99,874	18,646	8	4,969
Walpole Island.....	1,610	246	—	122
Windsor.....	1,193,987	259,315	48	32,094
Total.....	2,834,427	857,095	198	234,077
<i>Manitoba—</i>				
Bannerman.....	152	10	—	6
Cartwright.....	1,010	102	—	861
Crystal City.....	977	104	—	68
Deloraine.....	244	170	—	107
Emerson.....	11,222	11,709	12	11,340
Gretna.....	7,722	313	—	157
Haskett.....	972	230	—	111
* Killarney.....	939	220	—	82
* Lena.....	1,252	420	—	658
Lyleton.....	351	26	—	32
Melita.....	602	423	—	207
Piney.....	1,091	184	—	268
Snowflake.....	1,350	47	1	30
South Jet.....	1,254	154	—	127
Sprague.....	30	3	—	2
Waskada.....	130	36	—	316
Windygates.....	846	300	—	97
Total.....	30,144	14,451	13	14,469

\*Lena replaced Killarney.

TABLE 18.—TOURIST AUTOMOBILES, 1931—*Concluded*

	Admitted for Period			Exported for touring purposes
	Not exceeding 24 hours	Not exceeding 60 days	Exceeding 60 days and not more than 6 months	
<i>Saskatchewan—</i>				
Big Beaver.....	316	224	1	126
Big Muddy.....	91	—	—	58
Climax.....	205	262	1	532
East Poplar River.....	1,567	183	1	122
Elmore.....	2,010	175	—	1,612
Estevan.....	3,425	715	—	1,519
Fairlawn.....	134	76	—	481
Marienthal.....	2,444	464	—	173
Northgate.....	2,491	771	—	61
North Portal.....	5,531	1,212	—	1,242
Ratcliffe.....	517	6	—	171
Regway.....	432	309	—	524
Shaunavon.....	—	—	—	—
Val Marie.....	31	144	—	193
West Poplar River.....	346	345	—	445
Willow Creek.....	89	169	—	886
Total.....	19,629	4,855	3	8,145
<i>Alberta—</i>				
Aden.....	50	6	—	20
Cardston.....	5	1	—	—
Carway.....	1,514	3,992	—	1,590
Coutts.....	24,296	1,161	—	892
Lethbridge.....	—	—	—	—
Medicine Hat.....	—	—	—	—
Twin Lakes.....	414	40	—	194
Wild Horse.....	313	162	—	123
Total.....	26,592	5,362	—	2,819
<i>British Columbia—</i>				
Aldergrove.....	2,541	4,804	—	4,437
Boundary Bay.....	5,455	4,585	—	34,981
Bridestville.....	—	270	—	678
Carson.....	1,285	2,046	—	136
Cascade City.....	5,631	5,015	—	1,149
Douglas.....	7,080	9,618	—	7,786
Huntingdon.....	10,380	10,034	—	14,692
Kingsgate.....	455	2,182	13	4,078
Midway.....	2,024	93	—	67
Myncester.....	485	6	—	166
Nelway.....	762	2,371	—	1,813
Newgate.....	832	213	—	173
New Westminster.....	—	30	4	—
Osoyoos.....	1,794	3,814	2	4,708
Pacific Highway.....	1,190	67,795	—	51,617
Paterson.....	—	1,391	—	2,226
Roosville.....	1,199	635	—	68
Rykerts.....	1,281	2,835	1	1,799
Sidney.....	—	2,121	—	524
Silver Heights.....	253	—	—	2,143
Similkameen.....	195	130	—	237
Vancouver.....	—	268	—	54
Victoria.....	—	6,319	21	1,793
Waneta.....	12	5	—	7
Total.....	42,854	126,580	41	135,332
Grand total.....	3,439,492	1,469,753	744	536,855

*Motor Vehicle Accidents.*—There is not yet in Canada a comprehensive system of reporting and compiling motor vehicle accidents, although the provinces are one by one requiring motorists to report all accidents and possibly in the near future the laws in all the provinces will be more or less the same in this respect. The vital statistics collected by the Bureau, however, are complete for fatal accidents. The deaths are recorded in the place in which they occur. Thus an accident may happen in one province and the victim may die in another province; the number of such cases would be small, but for cities undoubtedly many of the fatalities are due to accidents on rural highways and the victims are brought into the cities and recorded from there. Consequently city statistics should be construed to include the surrounding country.

During 1931, despite the lighter motor travel as revealed by the gasoline consumption, the number of persons killed in motor vehicle accidents increased to 1,314, as compared with 1,290 in 1930. The increases were not in the summer months when travel is heaviest but in the winter months, January showing an increase from 30 to 54 and February an increase from 31 to 52. March, October, November and December also showed increases. The largest number of deaths from motor vehicle accidents was reported from Montreal (143), which was an increase over 1930 of 7, or 5 per cent, but was less than the high record made in 1929 with 151 deaths. Toronto had a new high record of 110 which was more than twice the number of persons killed five years previous and was an increase of 64 per cent over the number reported for 1930. Winnipeg, Hamilton, Ottawa, Quebec, Verdun, St. John and Saskatoon all had better records than in 1930. For the provinces the greatest improvement was made by New Brunswick where only 46 deaths occurred as against 72 in the previous year. On a gasoline consumption basis, which is only approximate because some of the taxed gasoline is not used by motor vehicles, the best record was made by Saskatchewan, followed by Prince Edward Island. There must be a fundamental reason for the low record made by Saskatchewan year after year. Probably the straight, wide roads and no very large cities are the chief factors, although the enforcement of traffic regulations by police and the punishment of infraction by magistrates are important factors in all provinces. The statistics of accidents reported by urban police departments are not complete for all of Canada, but include the important cities and towns and include only accidents occurring within the boundaries of these municipalities. Thus Montreal police department reported 54 persons killed by motor accidents in the city whereas 143 were reported as dying in the city due to motor vehicle accidents. The inference is that the 89 were due to accidents outside the city. Toronto reported 67 deaths leaving 43 for the surrounding country. The absence of a city or town from the list shown in table 24 does not mean that no motor vehicle accident occurred in such city or town, but that the police department failed to make a report.

TABLE 19.—DEATHS RESULTING FROM AUTOMOBILE ACCIDENTS BY MONTHS

	Total	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1931 <sup>(1)</sup> .....	1,314	54	52	48	76	111	126	127	178	150	158	135	99
1930.....	1,290	30	31	38	77	102	127	168	181	163	152	125	96
1929.....	1,300	41	27	42	66	107	132	192	168	174	157	136	58
1928.....	1,082	29	25	30	55	74	92	131	145	136	158	106	101
1927.....	865	16	19	34	49	67	98	121	111	138	92	58	62
1926.....	606	17	13	12	27	51	56	84	92	91	91	37	35
1925 <sup>(2)</sup> .....	425	6	8	14	26	37	39	63	62	49	50	47	24
1924 <sup>(2)</sup> .....	340	16	7	10	14	34	32	44	45	32	47	41	18
1923 <sup>(2)</sup> .....	355	3	2	4	17	26	36	54	43	49	47	35	39
1922 <sup>(2)</sup> .....	237	11	7	11	10	17	22	25	24	21	41	28	20

(1) Preliminary Vital Statistics. (2) Quebec not included.

TABLE 20.—DEATHS RESULTING FROM AUTOMOBILE ACCIDENTS REPORTED BY CITIES OF OVER 40,000 POPULATION

	1931 <sup>1</sup>	1930	1929	1928	1927	1926
Montreal.....	143	136	151	109	126	81
Toronto.....	110	67	107	81	87	45
Winnipeg.....	25	30	25	24	18	18
Vancouver.....	46	43	45	42	35	26
Hamilton.....	31	41	37	29	23	20
Ottawa.....	19	24	26	17	17	12
Quebec.....	15	17	17	10	14	10
Calgary.....	12	12	11	13	8	6
London.....	20	18	16	13	9	6
Edmonton.....	16	15	10	8	7	5
Windsor.....	17	15	17	22	24	15
Verdun.....	—	1	1	2	2	—
Halifax.....	9	6	14	10	5	5
Regina.....	11	8	2	2	2	2
Saint John.....	7	12	5	2	4	—
Saskatoon.....	3	4	2	2	2	2

(1) Preliminary Vital Statistics. (2) Not tabulated.

## DEATHS RESULTING FROM AUTOMOBILE ACCIDENTS

Year	Canada	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia
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TABLE 21—TOTAL NUMBER

1931 <sup>(1)</sup> .....	1,314	5	49	46	355	572	60	50	67	110
1930.....	1,290	10	54	72	338	517	60	51	77	111
1929.....	1,300	1	61	47	323	556	68	56	71	117
1928.....	1,082	2	40	31	279	437	53	74	75	91
1927.....	865	2	31	25	252	387	32	24	35	77
1926.....	606	1	28	11	183	242	27	21	33	60
1925.....	( <sup>2</sup> )425	2	26	20	No reports	256	32	18	26	45
1924.....	( <sup>3</sup> )340	1	13	16	"	205	17	16	16	56
1923.....	( <sup>2</sup> )355	2	24	20	"	208	18	19	22	42
1922.....	( <sup>4</sup> )237	1	16	11	"	103	25	20	22	39

TABLE 22.—AVERAGE PER 10,000 REGISTERED MOTOR VEHICLES

1931 <sup>(1)</sup> .....	10.89	6.46	11.20	13.64	19.77	10.15	7.94	4.61	7.00	11.20
1930.....	10.40	13.51	12.54	20.67	18.89	9.16	7.57	3.93	7.50	11.22
1929.....	10.82	1.63	15.30	14.76	19.05	10.12	8.74	4.30	7.12	11.23
1928.....	10.05	3.68	11.39	11.00	18.79	8.80	7.45	6.08	8.40	10.25
1927.....	9.15	4.56	10.31	10.19	19.62	8.87	5.01	2.25	4.74	9.92
1926.....	7.23	2.89	10.82	5.11	16.89	6.23	4.67	2.16	5.03	8.82
1925.....	( <sup>2</sup> )7.50	6.77	11.38	10.51	—	7.44	6.25	2.28	4.78	7.95
1924.....	( <sup>3</sup> )6.00	3.87	6.26	8.01	—	6.64	3.84	2.26	3.13	11.52
1923.....	( <sup>2</sup> )6.93	8.06	13.08	11.88	—	7.40	4.24	2.82	5.11	10.23
1922.....	( <sup>4</sup> )5.25	4.61	9.90	8.00	—	4.28	5.92	3.26	5.41	11.30

TABLE 23.—AVERAGE PER MILLION GALLONS OF GASOLENE CONSUMED BY MOTOR VEHICLES

1931 <sup>(1)</sup> .....	2.849	1.912	2.696	3.329	3.866	2.539	2.710	1.888	2.708	3.051
1930.....	2.690	3.895	3.082	5.149	4.061	2.163	2.774	1.632	2.161	3.215
1929.....	2.693	4.62	3.594	4.701	4.567	2.427	2.761	1.173	1.553	3.273

(1) Preliminary Vital Statistics. (2) Quebec not included.

TABLE 24.—MOTOR VEHICLE ACCIDENTS REPORTED BY URBAN POLICE DEPARTMENTS

	Persons	
	Killed	Injured
<i>Prince Edward Island—</i>		
Charlottetown.....	-	15
<i>Nova Scotia—</i>		
Dartmouth.....	-	5
Glace Bay.....	1	6
New Glasgow.....	2	4
North Sydney.....	-	7
Stellarton.....	2	4
Sydney.....	-	67
Sydney Mines.....	-	3
Yarmouth.....	1	1
Total.....	6	97
<i>New Brunswick—</i>		
Chatham.....	1	8
Edmundston.....	-	2
Fredericton.....	-	9
Moncton.....	2	31
St. John.....	-	71
Total.....	3	121
<i>Quebec—</i>		
Asbestos.....	2	4
Cap de la Madeleine.....	-	3
Chicoutimi.....	1	4
East Angus.....	-	2
Granby.....	1	5
Hull.....	9	60
Joliette.....	1	11
Jonquiere.....	-	4
Lachine.....	7	63
Levis.....	-	8
Longueuil.....	-	30
Magog.....	2	41
Montmagny.....	-	2
Montreal.....	54	2,556
Outremont.....	1	59
Quebec.....	7	118
Riviere du Loup.....	-	4
St. Hyacinthe.....	2	6
St. Jean.....	2	16
St. Jerome.....	2	4
St. Lambert.....	-	1
Shawinigan Falls.....	1	10
Sherbrooke.....	6	41
Sorel.....	1	1
Three Rivers.....	2	46
Thetford Mines.....	-	1
Valleyfield.....	6	1
Verdun.....	4	53
Westmount.....	-	49
Kenogami.....	-	1
Lac Megantic.....	-	10
Total.....	111	3,214
<i>Ontario—</i>		
Amprior.....	5	9
Barrie.....	-	12
Bellefille.....	1	12
Brampton.....	-	24
Brockville.....	1	3
Carleton Place.....	1	6
Chatam.....	1	40
Cobalt.....	2	2
Cobourg.....	1	1
Collingwood.....	-	9
Cornwall.....	1	13
Eastview.....	-	5
Fort William.....	1	41

TABLE 24.—MOTOR VEHICLE ACCIDENTS REPORTED BY URBAN POLICE DEPARTMENTS—Continued

	Persons	
	Killed	Injured
<i>Ontario—Concluded</i>		
Galt.....	1	26
Gananoque.....	—	3
Goderich.....	—	3
Guelpf.....	5	73
Hamilton.....	5	672
Ingersoll.....	1	5
Kenora.....	—	3
Kingston.....	1	27
Kitchener.....	2	108
Lindsay.....	1	9
London.....	8	331
Midland.....	—	6
New Toronto.....	—	7
Niagara Falls.....	2	72
North Bay.....	1	21
Oakville.....	2	22
Oshawa.....	1	21
Ottawa.....	7	167
Owen Sound.....	—	9
Paris.....	—	10
Pembroke.....	1	19
Penetanguishene.....	—	4
Peterborough.....	1	45
Port Arthur.....	2	36
Port Colborne.....	—	7
Port Hope.....	1	18
Preston.....	1	2
Renfrew.....	—	3
St. Catharines.....	2	54
St. Mary's.....	—	3
St. Thomas.....	1	25
Sandwich.....	—	25
Sarnia.....	2	32
Sault Ste. Marie.....	3	13
Simcoe.....	1	4
Smith's Falls.....	1	6
Stratford.....	2	12
Sturgeon Falls.....	—	2
Sudbury.....	1	30
Thorold.....	1	4
Timmins.....	3	23
Toronto.....	67	2,013
Trenton.....	—	2
Walkerville.....	3	23
Waterloo.....	—	3
Welland.....	1	15
Whitby.....	1	3
Windsor.....	10	243
Windsor East.....	1	18
Woodstock.....	3	31
<b>Total.....</b>	<b>160</b>	<b>4,490</b>
<i>Manitoba—</i>		
Brandon.....	—	4
Dauphin.....	—	20
Portage La Prairie.....	—	1
Selkirk.....	—	4
St. Boniface.....	1	49
Transcona.....	1	9
Winnipeg.....	12	902
<b>Total.....</b>	<b>14</b>	<b>989</b>
<i>Saskatchewan—</i>		
Moose Jaw.....	1	22
North Battleford.....	—	3
Regina.....	3	154
Saskatoon.....	2	76
Weyburn.....	1	3
Yorkton.....	—	5
<b>Total.....</b>	<b>7</b>	<b>263</b>

TABLE 24.—MOTOR VEHICLE ACCIDENTS REPORTED BY URBAN POLICE DEPARTMENTS—*Concluded*

	Persons	
	Killed	Injured
<i>Alberta—</i>		
Calgary.....	10	244
Edmonton.....	9	227
Lethbridge.....	5	1
Medicine Hat.....	1	21
Total.....	25	493
<i>British Columbia—</i>		
Fernie.....	-	1
Kamloops.....	-	4
Nanaimo.....	1	3
Nelson.....	-	21
New Westminster.....	6	72
North Vancouver.....	-	15
Prince Rupert.....	-	4
Trail.....	-	15
Vancouver.....	45	1,332
Victoria.....	6	93
Total.....	58	1,560

## SUMMARY

Prince Edward Island.....	-	15
Nova Scotia.....	6	97
New Brunswick.....	3	121
Quebec.....	111	3,214
Ontario.....	160	4,490
Manitoba.....	14	989
Saskatchewan.....	7	263
Alberta.....	25	493
British Columbia.....	58	1,560
Total.....	384	11,242

*Automobiles Manufactured, Exported and Imported.*—The Bureau has issued a separate report on the automobile industry which shows the capital employed in the industry, employees, salaries and wages, cost of materials, value of products, number and value of different types of cars produced, etc., and also the number and value of automobiles exported and imported. Five of the tables are reproduced in this report.

The production of motor vehicles in Canada reached its peak in 1929 with 203,307 passenger cars and 59,318 trucks. In 1930 the production of passenger cars dropped to 121,337 and in 1931 to 65,072 which, with the exception of 1921, was the smallest production since the records were established in 1916. Despite the small number of automobiles produced and imported, the number of cars withdrawn from service was greater than in 1930, viz., 108,510 as against 88,321 in 1930.

TABLE 25.—PRODUCTION OF AUTOMOBILES IN CANADA SUBDIVIDED AS BETWEEN PASSENGER CARS AND TRUCKS, 1904-1931

Year	Passenger Cars*		Trucks		Total	
	Number	Selling value at works	Number	Selling value at works	Number	Selling value at works
		\$		\$		\$
1904-1916.....		Not available separately			135,000	100,000,000
1917.....		Not available separately			93,810	54,466,273
1918.....	75,089	57,265,213	7,319	5,855,200	82,408	63,120,413
1919.....	79,936	63,810,168	7,899	5,119,652	87,835	68,929,820
1920.....	83,970	80,558,204	10,174	8,153,517	94,144	88,711,721
1921.....	61,098	53,561,415	5,148	3,843,288	66,246	57,404,703
1922.....	92,838	67,226,654	8,169	5,232,405	101,007	72,459,059
1923.....	127,976	78,282,372	19,226	8,941,011	147,202	87,223,383
1924.....	114,537	70,609,960	18,043	8,125,916	132,580	78,735,876
1925.....	135,573	86,158,773	26,397	12,234,486	161,970	98,393,259
1926.....	166,887	106,000,203	37,840	16,629,334	204,727	122,629,537
1927.....	146,421	100,962,211	32,633	14,942,017	179,054	115,904,228
1928.....	197,848	127,263,877	44,206	21,913,122	242,054	149,176,999
1929.....	203,307	134,023,280	59,318	29,474,395	262,625	163,497,675
1930.....	121,337	75,253,581	32,035	16,513,225	153,372	91,766,806
1931.....	65,072	42,634,173	17,487	10,330,763	82,559	52,964,936

\*Prior to 1925 all chassis included with passenger cars; subsequently the division between passenger and truck chassis has been made.

TABLE 26.—HISTORICAL SUMMARY OF THE AUTOMOBILE MANUFACTURING INDUSTRY IN CANADA, 1917-1931

Year	Number* of plants	Capital employed	Average number of employees	Salaries and wages	Cost of materials at works†	Value of products f.o.b. plant‡
		\$		\$	\$	\$
1917.....	11	28,192,858	5,919	6,239,471	35,585,820	54,466,273
1918.....	10	31,550,353	5,362	6,855,380	37,058,645	66,814,266
1919.....	11	34,949,739	6,771	9,712,788	51,690,715	80,619,846
1920.....	17	53,906,506	8,281	13,331,084	67,157,045	101,465,846
1921.....	14	40,080,269	5,475	7,887,173	45,119,345	67,050,209
1922.....	15	47,761,964	7,344	11,273,643	54,408,719	81,956,429
1923.....	10	60,146,195	9,305	14,998,267	71,851,633	96,614,176
1924.....	12	60,766,886	9,277	14,219,137	64,146,581	88,480,418
1925.....	11	74,678,451	10,301	17,249,270	74,166,378	110,835,380
1926.....	11	82,791,968	11,905	19,650,804	89,372,095	133,598,456
1927.....	11	88,831,668	11,063	18,862,846	88,451,757	128,700,514
1928.....	14	97,056,328	16,749	29,548,114	114,892,190	162,867,495
1929.....	17	98,378,301	16,435	26,864,808	120,329,612	177,315,593
1930.....	16	90,671,678	12,541	19,473,782	66,924,019	101,677,487
1931.....	26	59,638,057	9,545	13,113,192	36,476,355	59,674,345

\*Includes assembly plants.

†Duty drawback has been deducted.

‡Includes parts made in auto factories.

TABLE 27.—IMPORTS OF AUTOMOBILES AND PARTS INTO CANADA DURING THE CALENDAR YEARS, 1917-1931

Year	Passenger cars		Trucks		*Parts value \$	Total value \$
	Number	Value	Number	Value		
		\$		\$		
1917	15,825	10,738,425	831	1,132,532	(a) 7,555,535	19,426,492
1918	9,190	7,148,647	1,622	2,019,618	(a) 6,631,260	15,799,525
1919	9,637	9,304,235	2,113	3,437,464	9,979,041	22,720,740
1920	7,191	9,890,487	1,954	3,971,113	14,051,818	27,913,418
1921	6,319	8,688,976	951	1,815,723	8,393,507	18,898,206
1922	10,705	11,516,715	886	1,643,738	13,744,496	26,904,949
1923	10,467	10,447,015	1,355	1,879,574	15,047,433	27,374,252
1924	8,344	8,202,643	957	1,438,666	15,173,108	24,814,417
1925	13,486	12,855,940	1,146	1,693,369	20,690,989	35,240,298
1926	26,345	21,563,258	2,199	2,818,434	27,465,642	51,847,334
1927	32,826	26,904,209	3,804	4,638,207	31,852,100	63,394,516
1928	40,226	32,527,641	7,182	8,305,235	48,839,955	80,672,831
1929	39,446	32,605,958	5,278	6,817,176	44,772,091	84,195,225
1930	19,683	15,897,880	3,550	4,662,406	23,358,763	43,919,049
1931	7,492	5,766,895	1,246	1,613,939	14,442,570	21,823,404

(a) Item for 1917 and 1918 reads "automobiles and motor vehicles, parts, of, n.o.p."

\*Does not include automobile engines.

TABLE 28.—EXPORTS OF AUTOMOBILES AND PARTS FROM CANADA DURING THE CALENDAR YEARS, 1917-1931

Year	Passenger cars		Trucks		Auto- mobile parts \$	Total \$
	Number	Value	Number	Value		
		\$		\$		
1917	(b) 9,492	4,561,875	(a)	(a)	2,035,769	6,597,644
1918	(b) 10,361	5,076,076	(a)	(a)	919,738	5,995,814
1919	19,597	11,579,720	3,352	1,673,256	3,490,575	16,743,551
1920	18,070	13,576,179	4,942	3,059,056	4,276,027	20,911,262
1921	9,305	4,586,664	1,421	718,780	1,128,181	6,433,625
1922	35,394	21,059,574	2,564	1,094,519	1,926,098	21,080,191
1923	57,481	29,325,031	12,439	4,503,659	3,530,377	37,359,067
1924	43,883	22,080,232	12,772	4,429,161	4,992,049	31,501,442
1925	58,005	27,794,884	16,146	5,250,002	6,372,728	39,417,614
1926	53,628	25,779,659	20,696	6,957,242	5,485,486	38,222,387
1927	39,900	22,156,871	17,514	6,272,126	3,434,465	31,863,462
1928	55,732	25,224,014	23,656	8,652,301	2,152,166	36,028,481
1929	64,863	29,824,433	36,848	14,831,006	2,350,232	47,005,671
1930	28,841	12,737,784	15,712	6,060,999	1,587,571	20,389,354
1931	9,282	4,011,921	4,531	1,779,751	829,838	6,621,510

(a) Included under passenger cars.

(b) Includes trucks.

TABLE 29.—APPARENT CONSUMPTION OF AUTOMOBILES IN CANADA, 1917-1931

Year	Total supply		Less		Apparent con- sumption No.
	Production	Imports	Exports	Re-exports	
	No.	No.	No.	No.	
1917	93,810	16,656	9,492	567	100,407
1918	82,408	10,812	10,361	322	82,537
1919	87,835	11,750	22,049	305	76,331
1920	94,144	9,145	23,012	542	79,735
1921	66,246	7,270	10,726	254	62,536
1922	101,007	11,591	37,958	268	74,372
1923	147,202	11,822	69,920	438	88,666
1924	132,580	9,301	56,655	326	84,900
1925	161,970	14,632	74,151	341	102,110
1926	204,727	28,544	74,324	370	158,577
1927	179,054	36,630	57,414	438	157,332
1928	242,054	47,408	79,388	467	209,607
1929	262,625	44,724	101,711	671	204,967
1930	153,372	23,233	44,553	818	131,234
1931	82,559	8,739	13,813	726	76,759

## PART III—REGULATIONS OF THE DEPARTMENT OF NATIONAL REVENUE IN RESPECT OF TOURISTS' AUTOMOBILES AND TOURISTS' OUTFITS

### TOURISTS' AUTOMOBILES

A non-resident of Canada visiting this country for a limited period of time for purposes of health or pleasure only may enter his automobile for touring purposes in Canada by complying with certain regulations, a summary of which is given hereunder:—

*Temporary Admission—Twenty-four Hours.*—At ports and outports on the frontier only, tourists' automobiles may be entered for touring purposes for a stay not exceeding twenty-four hours within the jurisdiction of the port or outport, and not proceed further upon the owner surrendering his state licence card which will be handed to him on the return journey.

*Temporary Admission for a Period Not Exceeding Sixty Days.*—Automobiles may be entered at any Canadian frontier customs port or outport for touring purposes for a period not exceeding sixty days by filling in a prescribed form (E-50) made out in triplicate, one copy of which is retained by the tourist. The original is compared with the duplicate or triplicate when the tourist makes his exit from Canada.

An extension of thirty days may be granted by Officers of Customs at frontier or interior ports, outports or preventive stations in Canada upon presentation of the original permit granted on arrival into Canada.

*Temporary Admission for a Period Not Exceeding Six Months.*—Automobiles may be entered at any Canadian customs port for touring purposes for a period not exceeding six months by completing the same form referred to in the previous section and furnishing a bond on approved form in a sum equivalent to the duty and taxes on the automobile. The automobile of a tourist which is not exported within the time limit prescribed on the tourist's permit is liable to seizure, but should an unforeseen delay occur whereby the time of stay in Canada is prolonged the tourist should communicate direct with the Department of National Revenue, Ottawa.

### TOURISTS' OUTFITS

*General Provisions.*—Persons visiting Canada for a limited period of time for health or pleasure may bring with them such articles of tourists' outfits or sportsmen's equipment as they may require while in Canada for their own use and not for gain or hire upon reporting same to the Customs Officer at the Canadian frontier port of entry.

Guns, rifles (not including revolvers or pistols), fishing tackle, golf clubs, tennis raequets, and cameras (motion or still picture) previously used by a tourist and imported by him for his personal use and actually in his possession at the time of his arrival in Canada, and dogs and other animals imported by tourists solely for hunting purposes or as pets, may be admitted without deposit on being reported at the frontier port of arrival on Form E-29. The articles referred to herein, if brought in by a tourist arriving by automobile, need not be reported on Form E-29, but may be noted on Form E-50 issued in respect of the automobile.

Canoes, outboard motors, tents, camp equipment, phonographs, radios, musical instruments, etc., brought in by a tourist for his personal use and not for gain or hire may be admitted after report on Form E-29, upon the collector being furnished with a cash deposit of a sum equivalent to the duty and taxes payable thereon, the deposit to be subject to refund on the identification and exportation of the articles under customs supervision.

#### CANADIAN TOURISTS INTO UNITED STATES

A tourist by automobile from Canada into the United States must first secure a permit from the Customs Officer at the Canadian port (Form C-12) and sign it, in order to return his vehicle without duty. Then, at the Customs port on the United States frontier, he must secure a permit entitling him to tour for one month. Should he desire to remain for six months, he must furnish a bond of an approved guarantee company of the United States, for double the amount of duty; but no deposit is required.

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