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THE AUTOMOBILE INDUSTRY IN CANADA

1922

Prepared in the
MINING METALLURGICAL AND CHEMICAL BRANCH

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LIST OF PUBLICATIONS

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Dominion Bureau of Statistics, Canada

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THE AUTOMOBILE INDUSTRY IN CANADA IN 1922

The number of automobiles manufactured in Canada during 1922 exceeded all previous records and reached a total of 101,007 or 7% more than the maximum production of former years attained in 1920 and 53% more than the output in 1921. The total value of the output was \$81,956,429 or \$14,906,220 greater than in the preceding year, although \$19,509,417 lower than the corresponding figures for 1920. The advances were especially marked in the various sizes of closed cars. The output of coupes increased from 3,276 in 1920 to 5,367 in 1922 and of sedans from 4,681 to 10,431. The number of runabouts also increased from 3,759 in 1920 to 4,700 in 1922. The production of touring cars was 58,596 or 8,723 less than in 1920, but 13,786 greater than in 1921. The output of trucks followed a similar trend since 10,174 were manufactured in 1920; 5,148 in 1921, and 8,169 in 1922.

The largely increased production was reflected in the employment records, the number of wage-earners employed rising from a monthly average of 4,429 in the previous year to 6,043 in 1922. A rapid development was effected during the first five months as the pay-rolls carried 3,025 names in December, 1921, and 6,939 in May, 1922. A decline in trend was recorded for the remainder of the year, the minimum for the last half of the year occurring in October when 5,550 were employed. In November and December employment recovered somewhat and 6,088 hands were engaged at the end of the year.

An historical summary showing the development of the automobile manufacturing industry is presented in Table 1.

TABLE 1.-HISTORICAL SUMMARY OF THE AUTOMOBILE MANUFACTURING INDUSTRY
IN CANADA, 1917 - 1922.

Year	No. of Plants	Capital	Total Employ- ees	Salaries and Wages Paid	Cost of Materials	Value of Products
1917	11	28,192,858	5,919	6,239,471	35,525,820	54,466,273
1918	10	31,550,382	5,262	6,855,285	37,053,645	66,814,265
1919	11	34,949,732	6,721	9,712,788	51,690,715	80,619,846
1920	17	53,906,506	8,281	13,331,084	67,257,045	101,465,846
1921	14	40,080,269	5,475	7,337,173	45,119,345	67,050,209
1922	15	47,761,964	7,344	11,273,643	54,408,719	81,956,429

Cars Withdrawn from Use: An attempt to estimate the number of cars withdrawn from use during 1921 and 1922 is presented in Table 2. In estimating for 1922 the sum of the registrations and exports in 1922 were deducted from the sum of the registrations in 1921 and the production and imports during 1922. The cars to be accounted for were 568,359 in number and the registrations and exports in 1922 were 543,534 cars leaving a statistical balance of 24,825 for the cars scrapped or withdrawn from use.

TABLE 2, NUMBER OF AUTOMOBILES SCRAPPED OR WITHDRAWN FROM USE IN CANADA DURING 1921 and 1922.

	1 9 2 1		1 9 2 2	
	Year	No.	Year	No.
Cars to be accounted for:				
Automobile licenses.....	1920	396,913	1921	455,761
Manufactured.....	1921	66,246	1922	101,007
Imported.....	1921	7,270	1922	11,591
TOTAL.....		470,429		568,359
Cars accounted for:				
Automobile licenses.....	1921	455,761	1922	505,308(a)
Exported.....	1921	10,726	1922	37,958
Re-exported.....	1921	254	1922	268
TOTAL.....		466,741		543,534
Cars withdrawn from use.....	1921	3,688	1922	24,825

(a)-Subject to Revision.

Passenger Cars: The production of passenger cars in Canada during 1922 was 79,094 in addition to 13,744 chassis which were listed among the products of the firms engaged in the manufacture of automobiles. The output in 1921 was 57,401 cars and 3,697 chassis. The value of the output also increased in the latter year but not in the same proportion. The number increased by 58%, while the total value advanced by 16% only.

The imports in 1922 were 10,705 cars having an average value of \$1,076 as compared with an export trade of 35,394 cars with an average valuation of \$595. The registrations of passenger cars in 1922 were about 462,275, an increase of 9.2% over the previous year.

The average selling value at the factory of the 79,094 passenger cars manufactured or assembled during 1922 in the seven producing plants was \$764, or 15.7% less than the corresponding average of \$906 for the output of 57,401 cars in the previous year.

line in prices was general throughout the six classes of passenger cars, but the assigned value of the chassis advanced slightly.

Trucks: The total production of trucks in Canada increased 59% or from 5,148 in 1921 to 8,169 in 1922. The number of trucks under one ton capacity increased from 467 only to 915; trucks from one ton to under 5 tons in capacity from 4,676 in number to 7,243 or 55%. As compared with the record of 1920, the output in 1922 of the heavier trucks was slightly less. Imports of freight automobiles decreased from 991 in 1921 to 886 in 1922, while the exports of trucks manufactured in Canada advanced from 1,431 to 2,564. The re-exports declined from 24 cars to 5 in the same period. The number of trucks made available for sale in Canada was therefore 4,654 in 1921 and 8,255 in 1922, an increase of 77%.

The average assigned value of the trucks manufactured in Canada declined from \$747 in 1921 to \$641 in 1922. The trucks with a capacity of less than five tons declined in value while the few of heavier capacity advanced slightly. The data regarding values are given in Table 8.

Automobile Engines: The number of engines made during 1922 in automobile manufacturing plants for assembling into cars was 52,311 as compared with a production of 44,621 in the previous year. The horsepower capacity also increased from 997,242 to 1,168,204, the average horsepower per engine being practically maintained. The entire output in the year under review were 4-cylinder having a capacity of less than 25 horsepower.

The imports in 1922 were 22,260 and if this number is deducted from the 48,901 given as the purchased engines used in the automobile manufacturing plants a remainder of 26,641 is obtained as an approximate estimate of the automobile engines manufactured in automobile accessory, and other plants in Canada. An analysis of the manufactured and purchased engines is given in Tables 11 and 12 and the imports for several years are presented in Table 15.

Automobile Parts and Accessories The growing importance of the trade in automobile parts needs no special emphasis. The imports during 1922 were valued at \$13,744,496, the greater part of which were used for assembling into cars. The production in the industry under review increased from a value of \$5,149,503 in 1921 to \$9,428,600 in 1922.

TABLE 3. COMPARATIVE STATEMENT OF THE PRODUCTION, IMPORTS OF AUTOMOBILE ENGINES, AND THE NUMBER OF AUTOMOBILES MADE IN CANADA, 1920 to 1922.

Year	Engines Imported into Canada	As reported by Automobile Manufacturers		
		Engines Made	Engines Purchased	Complete Automobiles Produced
1920	30,526	59,025	39,620	94,144
1921	9,939	44,621	21,074	66,246
1922	22,260	52,311	48,901	101,007

TABLE 4. COST OF MATERIALS USED IN THE AUTOMOBILE MANUFACTURING INDUSTRY IN CANADA DURING 1921 and 1922.

	Unit	1921		1922	
		Quantity	Cost at Plant	Quantity	Cost at Plant
Raw materials:					
Steel.....	Tons	6,219	353,438	16,849	1,512,653
Iron.....	"	2,554	382,037	2,990	371,856
Copper.....	"	94	31,990	190	68,451
Brass.....	"	336	227,731	2,057	443,516
Aluminum.....	Lb.	38,500	15,655	68,500	14,942
Iron castings.....	Tons	6,893	856,253	9,477	1,293,018
Other metal castings....	...	...	320,510	3,760	528,560
Steel castings.....	Tons	4,860	972,793	8,217	2,207,435
Tubes and pipings....	...	...	450,217	2,131	450,790
Bolts, nuts, rivets, etc....	...	...	415,315	...	520,053
Other metals.....	Lb.	78,000	14,754	779,824	154,278
Glass.....	Sq.Ft.	9,064	9,028	20,100	51,674
Lumber, all kinds....	Sq.Ft.	14,682	425,332	14,281	949,888
Leather and other upholstery materials.....	...	...	1,228,814	...	1,105,008
Paints and varnishes	Gal.	...	139,140	112,442	263,076
Other raw materials.	...	...	6,500	...	208,000
Finished parts and accessories:					
Chassis.....	No.	20,402	3,948,868	45,890	7,946,614
Bodies.....	No.	57,386	7,891,087	83,421	9,381,006
Tops.....	No.	48,337	1,508,094	61,072	1,624,019
Engines.....	No.	21,074	5,201,070	46,564	8,139,066
Springs.....	No.	169,429	678,302	256,252	1,038,696
Wheels.....	No.	226,253	1,840,310	300,929	2,217,953
Motor parts.....	...	...	108,925	...	1,029,752
Speedometer and other instrument board equipment.....	...	...	252,330	...	410,923
Body and chassis parts.....	...	...	391,455	...	1,772,742
Batteries.....	No.	62,702	741,761	93,172	948,615
Generators.....	No.	5,106	79,502	6,762	91,286
Magnetos.....	No.	150	6,369	5,766	42,065
Starting motors.....	No.	3,863	67,434	6,636	81,991
Carburetors.....	No.	58,096	150,324	79,318	175,521
Radiators.....	No.	31,823	511,068	48,619	521,942
Coils.....	No.	196,336	526,142	276,735	392,565
Lamps.....	No.	177,367	361,601	205,960	518,155
Tires, pneumatic casing.....	No.	195,630	2,813,885	(488,925	4,576,245
Tires, pneumatic tubes	No.	211,644	1,750,358	2,760	54,207
Tires, solid.....	No.	2,054	52,239	...	...
Jacks, pumps, wrenches and other tools....	...	...	280,102	...	556,386
Other finished parts and accessories....	...	...	8,872,169	...	2,745,772
All other materials.	...	...	1,426,443	...	...
T O T A L.....			45,119,345		54,408,719

PRODUCTION OF AUTOMOBILE INDUSTRY IN CANADA, 1921 and 1922.

	1 9 2 1		1 9 2 2	
	No.	Selling Value at Factory	No.	Selling Value at Factory
Automobiles:				
1. Passenger.....	57,401	51,995,141	79,094	60,464,264
2. Commercial.....	5,148	3,843,288	8,169	5,232,405
33. Chassis.....	3,697	1,566,274	13,744	6,762,390
Automobile parts....	...	5,149,503	...	9,428,600
Repair work.....	...	4,496,003	...	68,770
T O T A L.....		67,050,209		81,956,429

TABLE 6. NUMBER OF AUTOMOBILES PRODUCED IN CANADA, 1920-1922.

	1920	1921	1922	Per cent of 1921 to 1920	Per cent of 1922 to 1921
	No.	No.	No.		
Automobiles, passenger:					
Open:					
2 to 3 passenger....	3,759	3,662	4,700	97	128.
4 to 5 passenger....	64,351	43,788	57,151	68	131.
7 passenger.....	2,968	1,022	1,445	34	141
Closed:					
2 to 3 passenger....	3,276	3,229	5,367	98	166
4 to 5 passenger....	4,589	5,563	10,082	121	181
7 passenger.....	92	137	349	149	255
Sub-total.....	79,035	57,401	79,094	73	138
Automobiles, commercial:					
Under 1 ton capacity	546	467	915	85	196
1 ton but under 5 tons.....	9,613	4,676	7,243	49	155
5 tons and over.....	15	5	11	33	220
Sub-total.....	10,174	5,148	8,169	51	149
Automobile chassis....	4,601	3,597	13,744	80	372
Automobiles, special..	334	...	...	...	...
TOTAL NUMBER.....	94,144	66,246	101,007	70	153

TABLE 7. VALUE OF AUTOMOBILES PRODUCED IN CANADA FROM 1920-1922.

	1920	1921	1922	% of 1921- 1920	% of 1922- 1921
	\$	\$	\$		
Automobiles, passenger:					
Open:					
2 to 3 passenger....	3,270,319	2,750,305	3,056,941	84	111
4 to 5 passenger....	59,430,558	35,925,833	39,458,641	60	110
7 passenger.....	5,653,654	1,931,251	2,244,837	...	116
Closed:					
2 to 3 passenger....	3,762,151	3,466,744	3,801,190	34	110
4 to 5 passenger....	5,644,403	7,460,931	11,440,008	113	133
7 passenger.....	314,693	460,077	462,647	146	101
Sub-total.....	78,075,778	51,995,141	60,464,264	67	116
Automobiles, commercial:					
Under 1 ton capacity.	535,732	468,082	617,797	87	132
1 ton but under 5 tons.....	7,491,471	3,345,206	4,533,049	44	136
5 tons and over.....	126,314	30,000	81,559	...	272
Sub-total.....	8,153,517	3,843,288	5,232,405	47	136
Automobile chassis....	2,407,205	1,566,274	6,762,390	65	432
Automobiles, special...	75,220	...	...	...	...
Amount received for custom and repair work.....	54,050	4,496,003	68,770	...	...
11 other products....	12,700,075	5,149,503	9,428,600	...	183
TOTAL VALUE.....	101,465,846	67,050,209	81,956,429	66	122

TABLE 8. AVERAGE ASSIGNED VALUES FOR CARS MANUFACTURED IN THE
AUTOMOBILE INDUSTRY IN CANADA, 1921 and 1922.

Description	Average Selling Value		Percentage of Difference	
	1921	1922	More	Less
	\$	\$		
Automobile passenger:				
Open:				
2 to 3 passenger.....	751	650	13.4	-
4 to 5 passenger.....	821	690	15.9	-
7 passenger.....	1,891	1,554	17.8	-
Closed:				
2 to 3 passenger.....	1,067	708	33.6	-
4 to 5 passenger.....	1,341	1,135	15.4	-
7 passenger.....	3,558	1,326	62.5	-
Average.....	906	764	15.7	-
Automobile chassis.....	424	492	-	16
Trucks:				
Under 1 ton capacity.....	1,002	675	32.6	-
1 ton, but under 5 tons...	715	626	12.5	-
5 tons and over.....	6,000	7,415	-	23.5
Average.....	747	641	14.2	-

TABLE 9. PRODUCTION OF AUTOMOBILES IN CANADA, CLASSIFIED BY TYPES
OF CARS AND ENGINES, 1922.

Products	No. of 4-cyl.	No. of 6-cyl.	No. of 8-cyl.	Total No. of Automobiles
Automobile passenger:				
Open:				
2 to 3 passenger.....	4,115	572	13	4,700
4 to 5 passenger.....	50,582	6,422	147	57,151
7 passenger.....	...	1,437	8	1,445
Closed:				
2 to 3 passenger.....	5,063	295	9	5,367
4 to 5 passenger.....	9,025	1,040	17	10,082
7 passenger.....	...	349	...	349
Automobile, commercial:				
Under 1 ton capacity.....	915	...	...	915
1 ton but under 5 tons....	7,243	...	...	7,243
5 tons and over.....	11	...	...	11
Automobile chassis.....	11,828	1,916	...	13,744
T O T A L.....	86,782	12,031	194	101,007

TABLE 10. PRODUCTION OF THE AUTOMOBILE MANUFACTURING PLANTS BY
PROVINCES, 1922.

Products	Q U E B E C		O N T A R I O	
	Quantity	Value	Quantity	Value
Automobile, passenger:				
Open:				
2 to 3 passenger.....	-	-	4,700	3,056,941
4 to 5 passenger.....	-	-	57,151	39,458,641
7 passenger.....	-	-	1,445	2,244,837
Closed:				
2 to 3 passenger.....	-	-	5,367	3,801,190
4 to 5 passenger.....	-	-	10,082	11,440,008
7 passenger.....	-	-	349	462,647
Automobile, commercial:				
Under 1 ton capacity...	-	-	915	617,797
1 ton but under 5 tons.	26	102,057	7,217	4,430,992
5 tons and over.....	6	50,526	5	31,033
Automobile chassis.....	-	-	13,744	6,762,390
Amount received for custom and repair work	-	9,858	-	58,912
All other products in- cluding parts.....	-	920	-	9,427,680
T O T A L.....	32	163,361	100,975	81,793,068

TABLE 11. TYPE AND HORSEPOWER OF ALL ENGINES MANUFACTURED IN
AUTOMOBILE MANUFACTURING PLANTS, 1920 to 1922.

	Year	Number	Total Horsepower	Average Horsepower
<u>Type of Engine:-</u>				
4 cylinders.....	1920	54,121	1,192,610	22.02
	1921	44,614	997,242	22.4
	1922	52,311	1,168,204	22.3
6 cylinders.....	1920	4,904	266,000	54.24
	1921	7	189	27
	1922	...	...	...
T O T A L S.....	1920	59,025	1,458,610	...
	1921	44,621	997,431	...
	1922	52,311	1,168,204	...
<u>Engine Power:-</u>				
Under 25 horse-power...	1920	54,121	1,192,610	22.02
	1921	44,591	996,231	22.3
	1922	52,311	1,168,204	22.3
25 H.P. but under 40 H.P.....	1920	226	9,000	39.82
	1921	20	700	35
	1922	...	...	...
40 H.P. and over.....	1920	4,678	257,000	54.94
	1921	10	500	50
	1922	...	...	...
T O T A L S.....	1920	59,025	1,458,610	...
	1921	44,621	997,431	...
	1922	52,311	1,168,204	...

TABLE 12. TYPE AND HORSE-POWER OF ALL PURCHASED ENGINES USED IN
AUTOMOBILE MANUFACTURING PLANTS IN 1922.

Kind	Number	Total Horsepower	Average Horsepower
<u>Type of Engine:-</u>			
4 cylinders.....	36,614	770,333	21
6 cylinders.....	12,093	326,415	27
8 cylinders.....	194	5,131	26
T O T A L S.....	48,901	1,101,879	23
<u>Engine Power:</u>			
Under 25 H.P.....	36,037	752,826	21
25 Horsepower but less than 40 H.P.	12,822	346,885	27
40 H.P. and over.....	42	2,168	52
T O T A L S.....	48,901	1,101,879	23

TABLE 13. NUMBER OF MOTOR VEHICLES REGISTERED IN CANADA BY PROVINCES
1919 - 1922.

Provinces	1919	1920	1921	1922
Prince Edward Island..	967	1,419	1,751	2,167
Nova Scotia.....	10,210	12,450	14,205	16,159
New Brunswick.....	8,306	11,196	13,615	13,611
Quebec.....	33,547	41,562	54,670	61,995
Ontario.....	144,804	177,561	206,521	241,986
Manitoba.....	39,118	36,455	40,215	42,200
Saskatchewan.....	56,855	60,325	61,184	61,367
Alberta.....	34,000	38,015	40,235	40,642
British Columbia.....	22,420	28,000	32,990	33,880
Yukon Territory.....	89	81	82	85
TOTAL FOR CANADA.....	341,316	407,060	465,378	514,092

TABLE 14, REGISTRATIONS OF MOTOR VEHICLES IN CANADA DURING 1922.

	Passenger Cars	Trucks	Motor-Cycles	Dealers	Total
Prince Edward Island.....	2,059	87	8	13	2,167
Nova Scotia.....	14,177	1,707	145	130	16,159
New Brunswick.....	12,609	904	98	135	13,746
Quebec.....	52,052	6,877	1,886	1,180	61,995
Ontario.....	210,333	24,164	4,989a	2,500	241,986
Manitoba.....	38,913	2,102	855	330	42,200
Saskatchewan.....	60,352	(c)	296	719	61,367
Alberta.....	38,214	1,749	403	276	40,642
British Columbia.....	33,505	...	880	141	34,526
Yukon.....	61	19	5	...	85
TOTAL.....	462,275	37,609	9,565	5,424	514,873

TABLE 15, IMPORTS INTO CANADA AND EXPORTS, OF AUTOMOBILES AND PARTS IN 1919, 1920, 1921 and 1922.

I T E M S	IMPORTS		EXPORTS	
	Quantity	Value	Quantity	Value
	No.	\$	No.	\$
<u>1919</u>				
Automobiles, freight.....	2,113	3,437,464	3,352	1,673,256
passenger.....	9,637	9,304,235	19,597	11,580,260
Automobile engines.....	37,206	6,982,658	...	...
Automobile parts.....	...	2,944,641	...	3,490,577
Total Value, 1919.....	...	22,668,998	...	16,744,093
<u>1920</u>				
Automobiles, freight.....	1,954	3,971,113	4,942	3,059,056
passenger.....	7,191	10,511,548	18,079	13,576,172
Automobile engines.....	30,525	7,627,386	...	...
Automobile parts.....	...	14,912,317	...	4,276,027
Total Value 1920.....	...	37,022,365	...	20,911,262
<u>1921</u>				
Automobiles, freight.....	951	1,815,723	1,421	718,780
passenger.....	6,319	8,540,359	9,305	4,586,664
Automobile engines.....	9,939	2,677,913	...	...
Automobile parts.....	...	8,392,507	...	1,128,181
Total Value 1921.....	...	21,427,502	...	6,433,625
<u>1922</u>				
Automobiles, freight.....	886	1,643,738	2,564	1,094,519
passenger.....	10,705	11,516,715	35,394	21,059,574
Automobile engines.....	22,260	3,928,037	...	...
Automobile parts.....	...	13,744,496	...	1,926,098
Total Value, 1922.....	...	30,832,986	...	24,080,191

Apparent Sale: Deducting the exports from the sum of the production and imports the number of cars made available for sale in Canada during 1922 was 76,141, an increase of 13,605 or 22% over the previous year. The exports were 38,225 cars as contrasted with imports of 11,591. A noteworthy increase occurred in the exports of passenger cars of domestic manufacture, there being 35,394 cars exported as compared with 9,305 in 1921. Table 16 gives a resume of the apparent effective demand in Canada, comparatively for the past two years.

TABLE 16. APPARENT CONSUMPTION OF AUTOMOBILES IN CANADA DURING 1921 and 1922.

	Production	Imports	Exports	Re Exports	Apparent Consumption
Automobiles:					
Freight.....1921	5,148	951	1,421	24	4,654
1922	8,169	886	2,564	5	8,255
Passenger.....1921	57,401	6,319	9,305	230	54,185
1922	79,094	10,705	35,394	263	54,142
Chassis.....1921	3,697	-	-	-	3,697
1922	13,744	-	-	-	13,744

Employment:

Another measure of the increase of activity in the automobile industry since 1919 is found in the average number of wage earners which increased from 5,839 in 1919 to 6,043 in 1922 or 3.5%. The increase in production during the same period standing at 15% as indicated by the number of cars manufactured, considerably outstripped the advance in employment. The following table illustrates fluctuation in this regard,-

	1919	1920	1921	1922
Production of cars.....	87,835	94,144	66,246	101,007
Index with record of 1919 as base.....	100	107	75	115
Average number of wage-earners.....	5,837	7,192	4,449	6,044
Index with record of 1919 as base.....	100	123	76	103.5

Referring to table 18, it will be observed that in 1922, 7,384 employees were engaged of whom 1,341 were on salaries and the remaining 6,043 were wage earners. The salaries were \$2,810,397 and the wages were \$8,463,246 making a total amount of \$11,273,643. The average day was 8.9 hours and the week consisted of 49.6 hours. On the average each plant operated full time 245.2 days, worked part time 34 days, and was idle 25 days. For purposes of uniformity, the year was regarded as consisting of 304 working days.

TABLE 17. WORKING TIME AND DAYS IN OPERATION IN THE AUTOMOBILE INDUSTRY IN CANADA, 1920-1922.

Year	Number of Establishments	Average Working Time		Av. No. Days each plant was in operation		
		Hours per day	Hours per week	On Full Time	On Part Time	Idle
1920	17	9	49	245	33	26
1921	14	9	49	#281	...	23
1922	15	8.93	49.6	245	34	25

In the 1921 returns, the days in operation were not separated as to full time and part time.

TABLE 18. NUMBER OF EMPLOYEES AND SALARIES AND WAGES PAID IN THE AUTOMOBILE MANUFACTURING PLANTS OF CANADA DURING 1921 and 1922.

Classification	1921		Salaries and Wages	1922		Salaries and Wages
	Male	Female		Male	Female	
QUEBEC						
Salaried officers of corporation.....	4	-	13,375	2	-	4,520
General superintendents, managers.....	-	-	-	-	-	-
Technical experts, engineers, chemists, accountants, etc....	-	-	-	1	-	2,075
Clerks, stenographers, salesmen and other salaried employees..	7	2	15,486	5	1	7,906
Sub-Total.....	11	2	28,861	8	1	14,501
Wage earners.....	21	-	32,520	12	-	16,402
TOTAL.....	32	2	61,381	20	1	30,903
ONTARIO						
Salaried officers of corporation.....	143	1	959,042	25	-	386,751
General superintendents, managers.....	-	-	-	88	-	460,750
Technical experts, engineers, chemists, accountants, etc....	-	-	-	75	1	246,589
Clerks, stenographers, salesmen and other salaried employees..	605	264	414,633	811	332	1,701,806
Sub-Total.....	748	265	373,675	999	333	2,795,896
Wage earners.....	4,290	138	6,452,117	5,814	217	8,446,844
TOTAL.....	5,038	403	7,825,792	6,813	550	11,242,740
CANADA						
Salaried officers of corporation.....	147	1	972,417	27	-	391,271
General superintendents, managers.....	-	-	-	88	-	460,750
Technical experts, engineers, chemists, accountants, etc....	-	-	-	76	1	248,664
Clerks, stenographers, salesmen, and other salaried employees..	612	266	430,119	816	333	1,709,712
Sub-Total.....	759	267	1,402,536	1,007	334	2,810,397
Wage earners.....	4,311	138	6,434,637	5,826	217	8,463,246
TOTAL.....	5,070	405	7,837,173	6,833	551	11,273,643

TABLE 19. AVERAGE NUMBER OF WAGE EARNERS ENGAGED IN THE AUTOMOBILE INDUSTRY IN CANADA BY MONTHS, 1921 and 1922

	1921			1922		
	Number of wage earners			Number of wage earners		
	Male	Female	Total	Male	Female	Total
January.....	4,192	106	4,298	4,689	199	4,888
February.....	4,435	118	4,553	5,493	211	5,704
March.....	5,070	171	5,241	6,119	236	6,355
April.....	5,795	192	5,987	6,532	246	6,778
May.....	5,065	180	5,245	6,684	255	6,939
June.....	5,152	139	5,291	6,625	237	6,862
July.....	4,198	107	4,305	5,872	179	6,051
August.....	4,247	117	4,364	5,606	183	5,789
September.....	4,259	126	4,385	5,614	202	5,816
October.....	2,954	115	3,069	5,336	214	5,550
November.....	3,502	122	3,624	5,473	225	5,698
December.....	2,867	158	3,025	5,875	213	6,088
AVERAGE.....	4,311	138	4,449	5,826	217	6,043

TABLE 20. POWER EMPLOYED IN THE AUTOMOBILE MANUFACTURING INDUSTRY IN CANADA, 1922.

Description	No. of Units	Rated Horsepower
1. Stationary engines, including those used for hoisting, pumping, etc:-		
(a) Steam engines and turbines.....	15	5,855
(b) Gas engines.....	6	4,484
2. Electric motors:-		
(a) Operated by power generated by the establishment.....	518	7,891
(b) Operated by purchased power.....	473	1,847
Total power installation..	1,012	20,077
Boilers installed.....	38	6,119

TABLE 21. FUEL CONSUMED IN THE AUTOMOBILE MANUFACTURING INDUSTRY IN CANADA, 1922.

Kind	Unit of Measure	Quantity	Cost \$
Bituminous coal.....	short tons	51,507	404,507
Anthracite coal.....	" "	571	4,893
Lignite coal.....	" "	1,879	14,879
Coke.....	" "	28	407
Gasoline.....	Gallon	120,416	38,811
Oil (fuel).....	"	45,193	3,892
Gas.....	1000 cu.ft.	2,900	3,356
Other fuel.....	-	-	642
TOTAL.....			471,387



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Financial Statistics: The current assets comprising cash, trading and operating accounts and bills receivable to the amount of 326,627,520 constituted 56% of the total capital employed. The turnover, being the ratio of the value of the output to the current assets, was 31%. The cost of materials represented 66.4% of the selling value of the output; salary and wage payments amounted to 13.7%. The ratio of the total manufacturing expenditure to the value of the product, or the operating ratio, was 88.6%.

TABLE 22, CAPITAL EMPLOYED IN THE AUTOMOBILE MANUFACTURING INDUSTRY OF CANADA FROM 1921 to 1922.

YEAR	Capital Represented by				Total Capital Employed
	Lands, build-ings and	Machinery and tools	Materials on hand, stocks in process, etc.	Cash, Trading and Operating Accounts	
1920	10,143,742	7,455,440	22,840,396	13,466,928	53,906,506
1921	9,637,883	8,135,977	15,094,164	7,212,240	40,080,269
1922	12,574,480	8,559,964	16,456,849	10,170,671	47,761,964

TABLE 23, FINANCIAL SUMMARY OF THE AUTOMOBILE MANUFACTURING INDUSTRY IN CANADA, 1920, 1921 and 1922.

	1920	1921	1922
Capital employed.....	53,906,506	40,080,269	47,761,964
Salaries and wages paid.....	13,331,084	7,887,173	11,278,643
Cost of fuel.....	703,736	563,149	471,387
Miscellaneous expenses.....	11,539,079	4,234,282	6,519,510
Cost of Materials.....	67,157,045	45,119,345	54,408,719
Value of Products.....	101,465,846	67,050,209	51,956,429
Value added by manufacturing	34,300,801	21,930,864	27,547,710