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Automobile parts. Canada

CANADA.

DEPARTMENT OF TRADE AND COMMERCE

DOMINION BUREAU OF STATISTICS

CENSUS OF INDUSTRY

MINING, METALLURGICAL & CHEMICAL BRANCH

THE

AUTOMOBILE PARTS AND ACCESSORIES

INDUSTRY

IN

CANADA

1934

Published by Authority of the HON. W.D. EULER, M.P.,
Minister of Trade and Commerce.

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DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS
MINING, METALLURGICAL AND CHEMICAL BRANCH
OTTAWA - CANADA

Dominion Statistician: R. H. Coats, LL.D., F.R.S.C., F.S.S. (Hon.)
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IRON AND STEEL AND THEIR PRODUCTS

THE AUTOMOBILE PARTS AND ACCESSORIES INDUSTRY, 1934.

The Automobile Parts and Accessories Industry is a division of the iron and steel group and the statistics for the industry as presented in this bulletin cover only the factories which made metal parts and accessories as their chief products. Parts such as tires, batteries, brake linings, etc., which were made in other industries are not covered by this report except in the supplementary summary of the total output of parts from all industries (Table 11). Other automobile materials such as lacquers, upholstering, lumber, etc., are not mentioned at all as the Bureau has no separate record of the output of these articles for automobile use. Data given in tables 1 to 10, therefore, refer only to auto parts of iron and steel, while table 11 summarizes the total production of parts of all kinds except lacquers, etc., for which separate data are not available.

Eighty establishments were included in the automobile parts and accessories industry in 1934, distributed as follows: Ontario, 62; Quebec, 3; Manitoba, 4; British Columbia, 5; Alberta, 3; Saskatchewan, 2; and New Brunswick, 1. Production was valued at \$24,378,762, a gain of 87 per cent over the 1933 value of \$13,001,185 from 83 operating plants.

The number of employees in these factories was 5,172 in 1934 compared with 3,776 in 1933 and payments in salaries and wages totalled \$5,498,360 as against \$3,569,483 in the previous year.

Among the products made by firms in this industry were:- auto and truck bodies, radiators, axles, wheels, bumpers, chassis springs, lamps, pistons, piston rings, engines, generators, starters, transmissions, distributors, shock absorbers, ignition coils, spark plugs, differentials, tire valves, brakes, clutches, lubricating systems, tire chains, steering wheels, etc. Many of these parts were made by only 1 or 2 plants in Canada so production figures for such items cannot be published separately. Table 10 shows output figures in as much detail as is possible for this industry.

The total production of parts and accessories from all industries, including tires, batteries, etc., amounted to \$59,540,865 in 1934 compared with \$37,602,636 in 1933. Details are given in table 11.

Imports of automobile engines numbered 29,756 at \$5,274,017 in 1934 and other auto parts were appraised at \$19,474,767. Exports of parts in the same year amounted in value to \$2,415,222 and re-exports of imported parts were valued at \$359,950.

Automobile manufacturing plants reported the cost of materials used in 1934 at \$52,693,074 compared with \$28,730,750 in 1933.

Table 1 - PRINCIPAL STATISTICS OF THE AUTOMOBILE PARTS AND ACCESSORIES INDUSTRY,
1921 - 1934.

Years	No. of plants	Capital employed	Average number of em- ployees	Salaries and wages	Cost of materials at works	Selling value of products at works	Value added by manu- facturing
		\$		\$	\$	\$	\$
1921	64	15,700,288	2,232	3,235,185	8,229,855	14,783,017	6,553,162
1922	62	16,545,641	3,173	4,296,554	10,674,176	19,007,824	8,333,648
1923	60	18,241,996	3,705	5,484,903	13,301,152	22,000,640	8,699,488
1924	60	14,894,462	2,623	3,786,464	9,336,308	15,744,388	6,408,080
1925	68	9,023,906	2,029	2,684,766	6,215,283	11,234,828	5,019,545
1926	77	10,501,725	2,770	3,680,021	7,730,136	13,914,965	6,184,829
1927	78	13,065,269	2,966	3,846,185	7,687,812	14,862,616	7,174,804
1928	77	16,343,956	3,509	4,756,409	8,358,404	17,007,157	8,648,753
1929	65	19,401,890	4,708	6,711,434	19,045,836	31,965,078	12,919,242
1930	57	16,654,683	3,580	4,527,179	10,682,111	18,401,587	7,719,476
1931	73	15,617,986	2,899	3,429,541	6,724,841	12,600,256	5,875,415
1932	76	17,332,257	3,832	3,874,618	5,970,954	12,161,456	6,190,502
1933	83	16,975,182	3,776	3,569,483	6,034,155	13,001,185	6,967,030
1934	80	19,393,687	5,172	5,498,360	12,736,731	24,378,762	11,642,031

Table 2 - PRINCIPAL STATISTICS, BY PROVINCES, 1933 and 1934.

Years	No. of plants	Capital employed	Average number of em- ployees	Salaries and wages	Cost of materials at works	Selling value of products at works	Value added by manu- facturing
		\$		\$	\$	\$	\$
<u>1 9 3 3</u>							
Quebec	5	168,487	50	38,890	35,262	74,759	39,497
Ontario	63	16,456,684	3,611	3,409,954	5,891,922	12,641,227	6,749,305
Manitoba	3	57,170	27	23,097	29,135	61,436	32,301
British Columbia.	7	208,236	50	54,359	46,872	130,565	83,693
New Brunswick ...	1)						
Saskatchewan	1)	84,605	38	43,183	30,964	93,198	62,234
Alberta	3)						
CANADA	83	16,975,182	3,776	3,569,483	6,034,155	13,001,185	6,967,030
<u>1 9 3 4</u>							
Quebec	3	80,904	25	24,095	41,242	65,287	24,045
Ontario	62	18,985,572	5,027	5,347,935	12,570,325	24,002,309	11,431,984
Manitoba	4	61,014	38	33,548	40,009	82,198	42,189
Alberta	3	72,462	33	40,220	31,782	82,218	50,436
British Columbia.	5	178,329	37	42,262	46,970	118,916	71,946
New Brunswick ...	1)						
Saskatchewan	2)	15,406	12	10,300	6,403	27,834	21,431
CANADA	80	19,393,687	5,172	5,498,360	12,736,731	24,378,762	11,642,031

Table 3 - CAPITAL EMPLOYED, BY PROVINCES, 1933 and 1934.

Provinces	Present value of lands, build- ings, fixtures, machinery and tools	Inventory value of materials on hand and stocks in process	Inventory value of finished products on hand	Operating capital (cash, trading and operating accounts, bills receivable, etc.)	TOTAL CAPITAL EMPLOYED
	\$	\$	\$	\$	\$
<u>1933</u>					
Quebec	97,668	8,460	3,349	59,010	168,487
Ontario	10,719,620	2,423,066	940,063	2,373,935	16,456,684
Manitoba	40,147	13,905	792	2,326	57,170
British Columbia ..	131,717	17,733	11,909	46,877	208,236
Other provinces ...	36,272	21,539	1,790	25,004	84,605
CANADA	11,025,424	2,484,703	957,903	2,507,152	16,975,182
<u>1934</u>					
Quebec	53,072	3,239	7,701	16,892	80,904
Ontario	11,065,563	3,576,115	1,353,037	2,990,857	18,985,572
Manitoba	42,449	16,071	...	2,494	61,014
Alberta	27,450	22,440	...	22,572	72,462
British Columbia ..	106,871	17,440	6,258	47,760	178,329
Other provinces ...	7,229	1,091	3,490	3,596	15,406
CANADA	11,302,634	3,636,396	1,370,486	3,084,171	19,393,687

Table 4 - SIZE OF ESTABLISHMENTS ACCORDING TO PRODUCTION, NUMBER OF EMPLOYEES AND CAPITAL EMPLOYED, 1934.

	Number of plants	Capital employed \$	Number of employees	Selling value of products at works \$
<u>(a) PRODUCTION</u>				
Under \$5,000	8	60,813	22	26,926
\$5,000 to \$10,000	6	81,839	31	48,852
\$10,001 to \$25,000	17	455,693	120	275,639
\$25,001 to \$50,000	9	305,663	89	315,405
\$50,001 to \$100,000	7	884,020	176	484,361
\$100,001 to \$250,000	13	2,766,747	537	2,184,591
\$250,001 to \$500,000	7	3,130,312	613	2,642,247
\$500,001 to \$1,000,000	8	4,488,626	1,148	5,233,937
Over \$1,000,000	5	7,219,974	2,436	13,166,804
TOTAL	80	19,393,687	5,172	24,378,762
<u>(b) EMPLOYEES</u>				
1 or 2	5	40,997	10	38,929
3 to 10	29	598,654	174	472,273
11 to 20	10	449,869	133	416,170
21 to 50	15	2,978,982	558	2,439,224
51 to 100	7	2,954,858	531	2,272,340
101 to 200	8	4,618,030	1,122	4,974,806
Over 200	6	7,752,297	2,644	13,765,020
TOTAL	80	19,393,687	5,172	24,378,762
<u>(c) CAPITAL</u>				
Under \$25,000	28	349,169	158	400,763
\$25,000 to \$100,000	18	836,640	238	969,018
\$100,001 to \$500,000	22	5,968,927	1,484	6,879,789
\$500,001 to \$1,000,000	8	5,055,582	1,255	5,287,528
Over \$1,000,000	4	7,183,369	2,037	10,841,664
TOTAL	80	19,393,687	5,172	24,378,762

Table 5 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1933 and 1934.

Provinces	AVERAGE NUMBER OF EMPLOYEES					Salaries	Wages	TOTAL	
	On salaries		On wages		TOTAL			SALARIES	
	Male	Female	Male	Female					AND WAGES
						\$	\$	\$	
1 9 3 3									
Quebec	18	...	31	1	50	21,647	17,243	38,890	
Ontario	374	162	2,706	369	3,611	929,150	2,480,804	3,409,954	
Manitoba	3	2	22	...	27	8,598	14,499	23,097	
British Columbia	15	...	35	...	50	19,433	34,926	54,359	
Other provinces.	4	2	30	2	38	7,170	36,013	43,183	
CANADA	414	166	2,824	372	3,776	985,998	2,533,485	3,569,483	
1 9 3 4									
Quebec	7	1	17	...	25	11,783	12,312	24,095	
Ontario	442	185	3,924	476	5,027	1,108,003	4,239,932	5,347,935	
Manitoba	6	2	30	...	38	12,650	20,898	33,548	
Alberta	3	4	26	...	33	6,680	33,540	40,220	
British Columbia	9	2	26	...	37	13,223	29,039	42,262	
Other provinces.	3	...	8	1	12	2,992	7,308	10,300	
CANADA	470	194	4,031	477	5,172	1,155,331	4,343,029	5,498,360	

Table 6 - WAGE-EARNERS, BY MONTHS, 1933 and 1934. (On the 15th of each month or nearest representative date)

Months	1933			1934		
	Male	Female	TOTAL	Male	Female	TOTAL
January	2,656	272	2,928	3,517	412	3,929
February	2,713	314	3,027	4,049	478	4,527
March	2,797	394	3,191	4,535	517	5,052
April	2,844	399	3,243	4,842	558	5,400
May	3,058	384	3,442	5,092	573	5,665
June	2,942	347	3,289	4,486	545	5,031
July	2,988	375	3,363	4,134	497	4,631
August	2,994	402	3,396	3,652	451	4,103
September	2,570	383	2,953	3,196	429	3,625
October	2,429	377	2,806	3,367	422	3,789
November	2,767	395	3,162	3,328	357	3,685
December	3,086	414	3,500	4,112	484	4,596
AVERAGE	2,824	372	3,196	4,031	477	4,508

Table 7 - FUEL AND ELECTRICITY USED, 1933 and 1934.

Kinds	Unit of measure	1933		1934	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Bituminous coal - Canadian ..	short ton	1,216	7,769	564	5,415
Imported ..	short ton	19,985	94,674	26,028	146,335
Anthracite coal	short ton	1,450	8,430	1,718	10,372
Coke	short ton	305	1,764	359	2,757
Gasoline	Imp. gal.	14,151	2,824	13,819	2,718
Kerosene or coal oil	Imp. gal.	4,983	701	5,604	901
Fuel oil	Imp. gal.	773,510	53,032	1,315,357	95,938
Wood	cord	88	525	81	411
Gas - Manufactured	M cu.ft.	8,869	7,584	17,481	9,624
Natural	M cu.ft.	15,871	9,483	33,301	20,054
Other fuel	xxx	...	...	...	21
Electricity purchased	K.W.H.	16,055,049	209,653	23,091,470	255,844
TOTAL	xxx	...	396,439	...	550,390

Table 8 - POWER EQUIPMENT, 1933 and 1934.

Kinds	1 9 3 3		1 9 3 4	
	Number of units	Total rated horse power	Number of units	Total rated horse power
Steam engines and steam turbines	10	828	11	1,098
Gasoline, gas and oil engines	1	20	...	...
Hydraulic turbines or water wheels	5	825	4	870
Total Primary Equipment	16	1,673	15	1,968
Electric motors run by purchased power ...	3,598	24,854	4,075	28,905
TOTAL	3,614	26,527	4,090	30,873
Electric motors run by above primary units	4	80	...	...
Total Electric Motors	3,602	24,834	4,075	28,905
Boilers	37	4,723	41	5,108

Table 9 - MATERIALS USED IN MANUFACTURING, 1933 and 1934.

Materials	Unit of measure	1 9 3 3		1 9 3 4	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Iron and steel -					
Pig iron	long ton	2,000	40,788	4,105	87,448
Wrought iron bars	short ton	107	8,730	15	1,315
Malleable iron bars	short ton	199	22,056	383	41,012
Iron castings	short ton	1,513	232,518	2,715	361,793
Steel castings	short ton	152	17,913	828	107,664
Bars and rods, steel	short ton	5,960	371,163	9,810	609,427
Plates, steel	short ton	54	3,162	982	36,582
Shafting steel	short ton	68	5,577	70	4,730
Sheets, steel - Plain	short ton	1,498	109,589	2,622	209,076
Galvanized ...	short ton	9	892	21	2,401
Structural shapes	short ton	27	1,871	97	6,114
Stampings, steel	short ton	...	225,500	1,075	356,200
Wire	short ton	919	67,420	799	49,430
Alloy steel	xxx	...	288,126	...	630,279
Scrap iron and steel	xxx	...	3,670	...	7,344
Other iron and steel	xxx	...	237,351	...	658,632
Other metals -					
Aluminium	lb.	48,664	22,366	136,073	55,447
Brass and bronze castings ...	lb.	132,341	17,603	209,176	33,621
Brass and bronze sheets, etc. ...	lb.	2,268,822	333,901	1,958,981	357,663
Copper sheets, bars, etc. ...	lb.	915,235	139,356	2,295,820	444,107
Lead	lb.	50,288	7,196	9,669	462
Tin	lb.	...	3,911	4,487	2,519
Zinc	lb.	93,683	6,501	167,256	8,357
Babbitt metals and solders ...	lb.	194,888	62,899	348,387	98,735
Other metals	xx	...	974	...	23,863
Other materials -					
Foundry coke for cupola use ..	short ton	2	15	...	...
Moulding sands	short ton	766	2,065	902	2,071
Foundry facings	lb.	10,000	300	66,000	291
Bolts, nuts, rivets and screws xxx	xxx	...	68,441	...	134,958
Glass	xx	...	196,496	...	465,081
Iron and steel pipe and fittings	xx	...	31,239	...	63,094
Lumber	M ft. b.m.	1,362	67,753	2,596	130,537
Paints, lacquers, enamels, etc. xxx	xxx	...	73,792	...	129,867

Table 9 - MATERIALS USED IN MANUFACTURING, 1933 and 1934. (concluded)

		1	9	3	3	1	9	3	4
Materials	Unit of measure	Quantity	Cost at		Quantity	Cost at			
				works			works		
				\$			\$		
Other materials - (concluded)									
Plating materials	xxx	...		61,900	...			91,467	
Artificial leather	xxx	...		34,390	...			25,051	
Velour and other upholstery cloth .	xxx	...		53,253	...			83,744	
Finished parts and accessories for assembling	xxx	...		1,155,893	...			2,624,699	
Shipping containers	xxx	...		73,091	...			98,668	
All other materials	xxx	...		1,984,494	...			4,692,382	
TOTAL	xxx	...		6,034,155	...			12,736,731	

Table 10 - PRODUCTS MADE IN THE AUTOMOBILE PARTS AND ACCESSORIES INDUSTRY, 1933 and 1934

NOTE - Data given in this table are for the Automobile Parts and Accessories Industry which includes only the concerns that manufactured metal auto parts as their chief products (see directory). Figures for the individual items do not necessarily represent the total output for Canada as there may also have been an output by concerns classified to other industrial groups. For totals for Canada see Table 11.

Products	Unit of measure	1 9 3 3		1 9 3 4	
		Quantity	Selling value at works \$	Quantity	Selling value at works \$
Axles and axle shafts, auto	XX	...	325,253	...	850,075
Bodies and cabs, auto	No.	7,354	1,215,977	17,756	2,819,508
Bumpers and bumperettes	No.	83,028	188,507	152,886	439,786
Clutches	No.	...	202,047	89,370	250,237
Ignition coils	No.	101,550	130,267	159,190	346,287
Piston rings	No.	3,748,203	454,008	5,902,040	712,938
Radiators, complete	No.	21,036	164,094	43,698	253,787
Radiator cores	XX	...	274,765	...	539,940
Springs for auto chassis	XX	...	483,865	...	764,764
Starters (self-starters)	No.	130,502	552,042	209,688	780,413
Receipts from custom work or repairs	XX	...	326,096	...	200,188
All other products (x)	XX	...	8,684,264	...	16,420,839
TOTAL	XX	...	13,001,185	...	24,378,762

(x) Includes the products which were reported by only 1 or 2 firms such as engines, differentials, brakes, wheels, transmissions, generators, lamps, lubricating systems, shock absorbers, steering gears, tire valves, spark plugs, clutches, tire chains, pistons, distributors, steering wheels, etc.

Table 11 - PRODUCTION OF SPECIFIED AUTO PARTS AND ACCESSORIES, FROM ALL INDUSTRIES, 1933 and 1934.

NOTE - Figures given in this table represent the total reported Canadian production of the commodities listed, regardless of the industry in which produced. Data are subject to slight revision on further examination of individual reports.

Products	Unit of measure	1 9 3 3		1 9 3 4	
		Quantity	Selling value at works \$	Quantity	Selling value at works \$
Axles, axle shafts and rough forgings	XX	...	939,080	...	2,009,774
batteries, storage (for autos)	No.	446,488	2,106,376	522,132	2,262,960
bodies and cabs	XX	...	1,466,679	...	2,913,202

Table 11 - PRODUCTION OF SPECIFIED AUTO PARTS AND ACCESSORIES FROM ALL INDUSTRIES,
1933 and 1934 (continued)

NOTE - Figures given in this table represent the total reported Canadian production of the commodities listed regardless of the industry in which produced. Data are subject to slight revision on further examination of individual reports.

Products	Unit of measure	1933		1934	
		Quantity	Selling value at works	Quantity	Selling value at works
			\$		\$
Brakes	XX	...	(x)	...	(x)
Brake linings, asbestos	ft.	...	335,066	...	458,147
Bumpers and bumperettes	XX	...	188,507	...	439,786
Cables and wire assemblies	XX	...	(x)	...	(x)
Chains and cross chains, tire	XX	...	281,424	...	393,497
Clutches	No.	...	(x)	89,370	250,237
Clutch facings, asbestos	XX	...	19,572	...	49,317
Coils, ignition	No.	101,550	130,267	159,190	346,287
Covers for radiators, tires, etc.	XX	...	149,915	...	310,237
Differentials	XX	...	(x)	...	(x)
Distributors	XX	...	(x)	...	(x)
Drag links and tie rods	XX	...	(x)	...	(x)
Engine valves	XX	...	(x)	...	(x)
Engines	XX	...	(x)	...	(x)
Engine parts	XX	...	...	...	81,675
Fan belts, rubber	No.	602,460	143,346	786,541	162,498
Generators	XX	...	(x)	...	(x)
Glass, laminated, etc.	XX	...	516,255	...	668,722
Hardware, auto	XX	...	328,279	...	457,113
Heaters, auto and engine	XX	...	170,132	...	191,348
Lamps and parts (headlights, etc.) ...	XX	...	(x)	...	(x)
Lamps, incandescent, miniature	No.	5,763,149	485,166	7,282,187	496,574
Lubricating systems	XX	...	(x)	...	(x)
Motor temperature indicators	XX	...	(x)	...	(x)
Pistons	XX	...	(x)	...	(x)
Piston rings	No.	3,748,203	454,008	5,902,040	712,938
Radiators, complete	No.	21,036	164,094	43,698	253,787
Radiator cores	XX	...	274,765	...	539,940
Radios for automobiles	No.	9,905	335,274	12,368	438,961
Shock absorbers	XX	...	(x)	...	(x)
Spark plugs and parts	XX	...	(x)	...	(x)
Springs, chassis	XX	...	512,106	...	789,062
Starters	No.	130,502	552,042	209,688	780,413
Steering gears	XX	...	(x)	...	(x)
Steering wheels	XX	...	(x)	...	...
Tires (casings and tubes)	XX	...	17,777,538	...	26,907,409
Tire and luggage carriers	XX	...	5,095	...	9,500
Tire valves	XX	...	(x)	...	(x)
Tops, auto	XX	...	8,118	...	71,467
Trailers	No.	142	125,110	162	166,432
Transmissions	XX	...	(x)	...	(x)
Tubing for automobiles	XX	...	(x)	...	(x)
Wheels	XX	...	(x)	...	(x)
Windshields	XX	...	(x)	...	(x)
Windshield wipers	XX	...	(x)	...	13,438
Parts (service) made in auto factories).....	XX	...	2,861,249	...	3,574,423

Table 11 - PRODUCTION OF SPECIFIED AUTO PARTS AND ACCESSORIES FROM ALL INDUSTRIES,
1933 and 1934 (concluded)

Products	Unit of measure	1 9 3 3			1 9 3 4		
		Selling value Quantity at works			Selling value Quantity at works		
		\$			\$		
Other auto parts and supplies, not specified separately	xx	...	1,266,598		...	2,511,025	
Value of products reported by only 1 or 2 firms as indicated above	xx	...	6,006,555		...	11,280,696	
TOTAL	xx	...	37,602,636		...	59,540,865	

(x) Indicates that the commodity was reported by only 1 or 2 plants and therefore
production figures cannot be published separately.

Table 12 - PRODUCTION OF AUTOMOBILES IN CANADA, SUBDIVIDED AS BETWEEN PASSENGER CARS
AND TRUCKS, 1928 - 1934.

Years	PASSENGER CARS		TRUCKS		T O T A L	
	Number	Selling value at works	Number	Selling value at works	Number	Selling value at works
		\$		\$		\$
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
1932	50,694	32,490,129	10,095	6,070,667	60,789	38,560,796
1933	53,849	32,568,268	12,003	6,062,195	69,852	38,630,463
1934	92,647	57,260,156	24,205	12,770,318	116,852	70,030,474

Table 13 - IMPORTS INTO CANADA OF AUTOMOBILES AND PARTS, CALENDAR YEARS, 1928 - 1934.

Calendar Years	PASSENGER CARS		TRUCKS		Parts(c)	TOTAL
	Number	Value	Number	Value	Value	VALUE
		\$		\$	\$	\$
1928	40,226	32,527,641	7,182	8,305,235	48,839,955	89,672,831
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
1932	1,160	919,886	289	289,007	11,588,190	12,797,083
1933	1,098	759,341	683	444,927	10,836,590	12,040,858
1934	1,988	1,348,789	917	648,340	19,474,767	21,471,896

(c) Does not include automobile engines.

Table 14 - EXPORTS FROM CANADA OF CANADIAN AUTOMOBILES AND PARTS, CALENDAR YEARS
1928 - 1934.

Calendar Years	PASSENGER CARS		TRUCKS		Automobile parts	TOTAL
	Number	Value	Number	Value		
		\$		\$	\$	\$
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	20,386,354
1931	9,282	4,011,921	4,531	1,779,751	829,838	6,621,510
1932	9,800	4,282,666	2,734	963,295	1,846,033	7,091,994
1933	15,828	6,812,989	4,575	1,693,070	1,337,302	9,843,361
1934	31,274	12,988,365	12,094	4,215,429	2,415,222	19,619,016

Table 15 - RE-EXPORTS FROM CANADA OF IMPORTED AUTOMOBILES AND PARTS, CALENDAR YEARS 1928 - 1934.

Calendar Years	PASSENGER CARS		TRUCKS		Automobile parts	TOTAL
	Number	Value \$	Number	Value \$		
1928	423	477,068	44	47,584	1,264,812	1,789,464
1929	622	458,746	49	55,406	1,327,507	1,841,659
1930	757	448,306	61	75,678	794,943	1,318,927
1931	682	375,009	44	78,143	643,743	1,096,895
1932	442	228,893	46	102,423	423,407	754,723
1933	469	214,597	28	39,657	270,347	524,601
1934	379	153,761	20	9,511	359,950	523,222

Table 16 - COMPARATIVE STATEMENT OF THE PRODUCTION AND IMPORTS OF AUTOMOBILE ENGINES AND THE NUMBER OF AUTOMOBILES MADE IN CANADA, 1928 - 1934.

Years	Engines imported into Canada No.	As reported by automobile manufacturers -		
		Engines purchased No.	Engines made No.	Automobiles produced No.
1928	117,007	147,658	97,288	242,054
1929	91,434	98,143	165,421	262,625
1930	34,629	39,270	114,880	153,372
1931	22,384	25,896	55,966	82,559
1932	26,709	31,545	29,482	60,789
1933	26,567	30,516	34,687	65,852
1934	29,756	34,652	83,036	116,852

DIRECTORY OF FIRMS IN THE AUTOMOBILE PARTS AND ACCESSORIES INDUSTRY, 1934.

NOTE - This is not intended to be a complete list of manufacturers of auto parts and accessories. It is simply a list of the concerns in this industry which includes the firms that made auto parts and accessories of iron and steel as their CHIEF products.

Names of Firms

Location of Plants

NEW BRUNSWICK -

St. John Spring Works

81 Thorne Ave., Saint John

QUEBEC -

Auto Radiator Mfg. Limited
Bonhomme, Jos., Limited
Cartier Manufacturing Ltd.
Montpetit, J.P.
Racine, Alfred, Enrg.

960 Plessis St., Montreal
1840 St. Antoine St., Montreal
995 St. Dominique St., Montreal
2284 Albert St., Montreal
5120 St. Dominique St., Montreal

ONTARIO -

Adams, J.C., Co. Limited
Bates, P.D.
Beaver Piston Rings Limited
Bendix Eclipse of Canada, Limited
Blow, Fred S.
Canada Carriage & Body Co. Limited

14 Breadalbane St., Toronto
York St., Ridgetown
Russell St. E., Smiths Falls
Argyle Road, Walkerville
Bower Ave., Acton
Pearl St., Brantford, and Mohawk St.,
Brantford

DIRECTORY OF FIRMS IN THE AUTOMOBILE PARTS AND ACCESSORIES INDUSTRY, 1934 (continued).

NOTE - This is not intended to be a complete list of manufacturers of auto parts and accessories. It is simply a list of the concerns in this industry which includes the firms that made auto parts and accessories of iron and steel as their CHIEF products.

<u>Names of Firms</u>	<u>Location of Plants</u>
<u>ONTARIO - continued</u>	
Canada Motor Products Limited	66 Wellington St., W., Toronto
Canadian Acme Screw & Gear, Limited	1209 King St. W., Toronto
Canadian Motor Lamp Co. Ltd.	Seminole St., East Windsor
Canadian Piston Ring Co. Ltd.	180 Walker Road, Walkerville
Canadian Radiator Mfg. Co.	196 Adelaide St. W., Toronto
Canadian Top & Body Corp. Ltd.	Louise St., Tilbury
Champion Spark Plug Co. of Canada, Limited	1416 Howard Ave., Windsor
Chatham Malleable & Steel Mfg. Co. Ltd.	148 Inches Ave., Chatham
Commercial Motor Bodies & Carriages, Limited	123 Woolwich St., Guelph
Court Radiator Plant Limited	29 Queenston St., St. Catharines
Defiance Spark Plugs Limited	729 Victoria Rd., Walkerville
Dill Mfg. Co. of Canada, Limited, The	489 King St. W., Toronto
Dominion Body Company Limited	172 Walker Road, Walkerville
Dominion Chain Company Limited	800 Bender Ave., Niagara Falls
Dominion Truck Equipment Co. Ltd.	60 South St., Kitchener
Duggan Bros.	12 Duchess St., Toronto
Elder, Robt., Carriage Works Limited	26 Soho St., Toronto
Electric Auto-Lite Limited	Christina St. N., Sarnia
Essex Wire Corporation Limited	255 East Hanna St., Windsor
Flaherty Manufacturing Co.	76 Wellington St., Hamilton
Flexo Mfg. Co. Limited	993 Eastern Ave., Toronto
General Motors of Canada Limited	Walkerville
Gotfredson Trucks Ltd.	Walker Rd., Walkerville
Gray Forgings & Stampings Limited	686 St. Clarens Ave., Toronto
Greer, A.B., and Son Limited	101 York St., London
Guelph Spring & Axle Co. Ltd.	24 Wellington St., Guelph
Guide Motor Mfg. Co.	105 Sherbourne St. E., and 15 McFarrens Lane, Toronto
Hayes Wheels & Forgings, Limited	Merritton
Kelsey Wheel Company Limited	301 Banwell Ave., Windsor
Kingsley Mfg. Company	1359 Danforth Ave., Toronto
Knight Rebound Controllers Limited	16 Sanford Ave., Hamilton
Kraeuter & Co. Inc.	103 Church St., Toronto
Long Manufacturing Co. Limited	44 Edna St., East Windsor
McCord Radiator & Mfg. Co.	168 Walker Rd., Walkerville
McKinnon Industries Limited, The	Ontario St., St. Catharines
McQuay Norris Mfg. Co. of Canada, Ltd.	Ray and Goddard Aves., Mount Dennis
Mitchell Hearse Company Limited, The	25 King St. W., Ingersoll
Moto-Meter Company of Canada, Limited, The	Sarnia
Motor Products Corp.	Walker Road, Walkerville
Ontario Steel Products Company Limited	81 St. George St., Chatham
Ontario Steel Products Company Limited	King St., Gananoque
Ontario Steel Products Company Limited	Ritson Road, Oshawa
Packard Cable Co. of Canada Limited	287 King St. E., Toronto
Perfect Circle Company Ltd., The	205 Richmond St. W., Toronto
Reliable Radiator Co.	124 Kent St., Ottawa
Roto-Cam Mfg. Co. Ltd.	439 Sandwich St. E., Windsor

DIRECTORY OF FIRMS IN THE AUTOMOBILE PARTS AND ACCESSORIES INDUSTRY, 1934 (concluded)

NOTE - This is not intended to be a complete list of manufacturers of auto parts and accessories. It is simply a list of the concerns in this industry which includes the firms that made auto parts and accessories of iron and steel as their CHIEF products.

Names of Firms

Location of Plants

ONTARIO - concluded

St. Catharines Auto Bodies Ltd.	207 St. Paul St. W., St. Catharines
Schraders, A., Son, Inc.	334 King St. E., Toronto
Simplex Piston Ring Company of America, Inc.	445 King St. W., Toronto
Stewart Warner Alemite Corporation of Canada, Ltd.	McDonald Ave., Belleville
Skinner Company Limited, The	Wolfe and Simcoe Sts., Oshawa
Superior Piston Ring Company of Canada, Limited	69 Lincoln Road, Walkerville
Thompson Products Limited	37 Louth St., St. Catharines
Trico Products Corp.	40 Courtwright St., Fort Erie N.
Wel-Ever Piston Ring Co. of Canada, Ltd.	15 Church St., Windsor
Wilkening Manufacturing Co. (Canada) Limited	43 Britain St., Toronto
Wilson Motor Bodies Limited	48 Abell St., Toronto, 3

MANITOBA -

Chalmers Auto Truck & Body Works	342 Nairn Ave., Winnipeg
Hulse Mfg. Co.	185 Isabel St., Winnipeg
Maybilt Radiators Ltd.	310 Burnell St., Winnipeg
Western Auto & Truck Body Works	702 Broadway, Winnipeg

SASKATCHEWAN -

Temme Spring Co.	328 First Ave. S., Saskatoon
Western Spring Co. Ltd.	1246 Albert St., Regina

ALBERTA -

Hay & Harding Ltd.	1439 - 10th Ave. E., Calgary
Standen, Wm.	2415 - 2nd A St. S.E., Calgary
Sunnyside Auto Body Works	1014 - 4th Ave. N.W., Calgary

BRITISH COLUMBIA -

Bowers Engineering Works Ltd.	1410 Richards Ave., Vancouver
Cords Piston Ring Co. of Canada	963 Yates St., Victoria
McAllister Spring Co. Ltd.	1162 Seymour St., Vancouver
Pioneer Carriage & Truck Tire Ltd.	960 Richards St., Vancouver
Vancouver Spring Co.	1134 Richards St., Vancouver

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