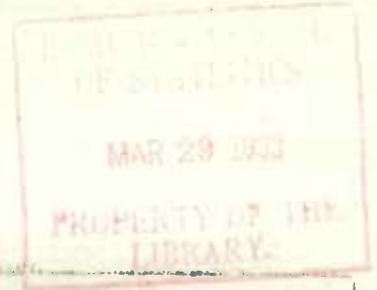


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CANADA
DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS
FORESTRY BRANCH

PRELIMINARY REPORT
on the
CARRIAGE & WAGON INDUSTRY
in
CANADA
1931

(Subject to revision on further examination of individual reports)

+ + +

Published by Authority of the Hon. H.H. Stevens, M.P.,
Minister of Trade and Commerce

+ + +

OTTAWA
1933

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Note,- Production figures as given in this bulletin do not necessarily represent the total output in Canada of the commodities listed, as there may be also a considerable production in other industrial groups. For complete information this bulletin must be read with the rest of the series of wood-using industries and other publications of the Census of Industry.

DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS
CENSUS OF INDUSTRY - FORESTRY STATISTICS
OTTAWA - CANADA

Dominion Statistician:	R. H. Coats, B.A., F.S.S., (Hon.), F.R.S.C.
Forestry Statistics:	R. G. Lewis, B.Sc. F.

THE CARRIAGE AND WAGON INDUSTRY IN CANADA
1930 and 1931.

Ottawa, March - 1933. A report on the manufacture of carriages, wagons, sleighs and parts thereof has been completed by the Forestry Branch of the Dominion Bureau of Statistics for 1930 and 1931. The industry is divided into two groups, the first of which consists of factories engaged in the manufacture of what are known as "vehicle supplies" such as spokes, hubs, rims, axles and other wooden vehicle parts. These are sold to manufacturers assembling complete vehicles and to carriage and blacksmith shops for repair work. The second group includes factories manufacturing complete vehicles either from parts made by themselves or purchased from manufacturers of vehicle supplies. The latter class also includes firms engaged, to a certain extent, in the assembling of automobiles from purchased parts, the building of bodies on purchased chassis, and repair work. The manufacture of automobiles as an industry is dealt with in a report published by the Metallurgical Branch of the Bureau of Statistics.

There were 247 firms engaged in turning out complete vehicles in 1931 as compared to 317 in 1930 with a total capital investment of \$4,068,077 in 1931. These firms gave employment to 755 workers and paid \$765,123 in salaries and wages. Their raw materials cost \$481,996 and their products were valued at \$1,927,132.

The manufacturers specializing in vehicle supplies numbered 6 in 1930 and 4 in 1931. In 1931 their capital amounted to \$400,786, their employees numbered 84 and they paid out \$89,876 in wages and salaries. Raw materials in this group cost \$119,463, while the products manufactured were valued at \$275,687.

Tables 1 and 2 give a summary of the principal statistics of these two industries and the distribution of their plants by provinces.

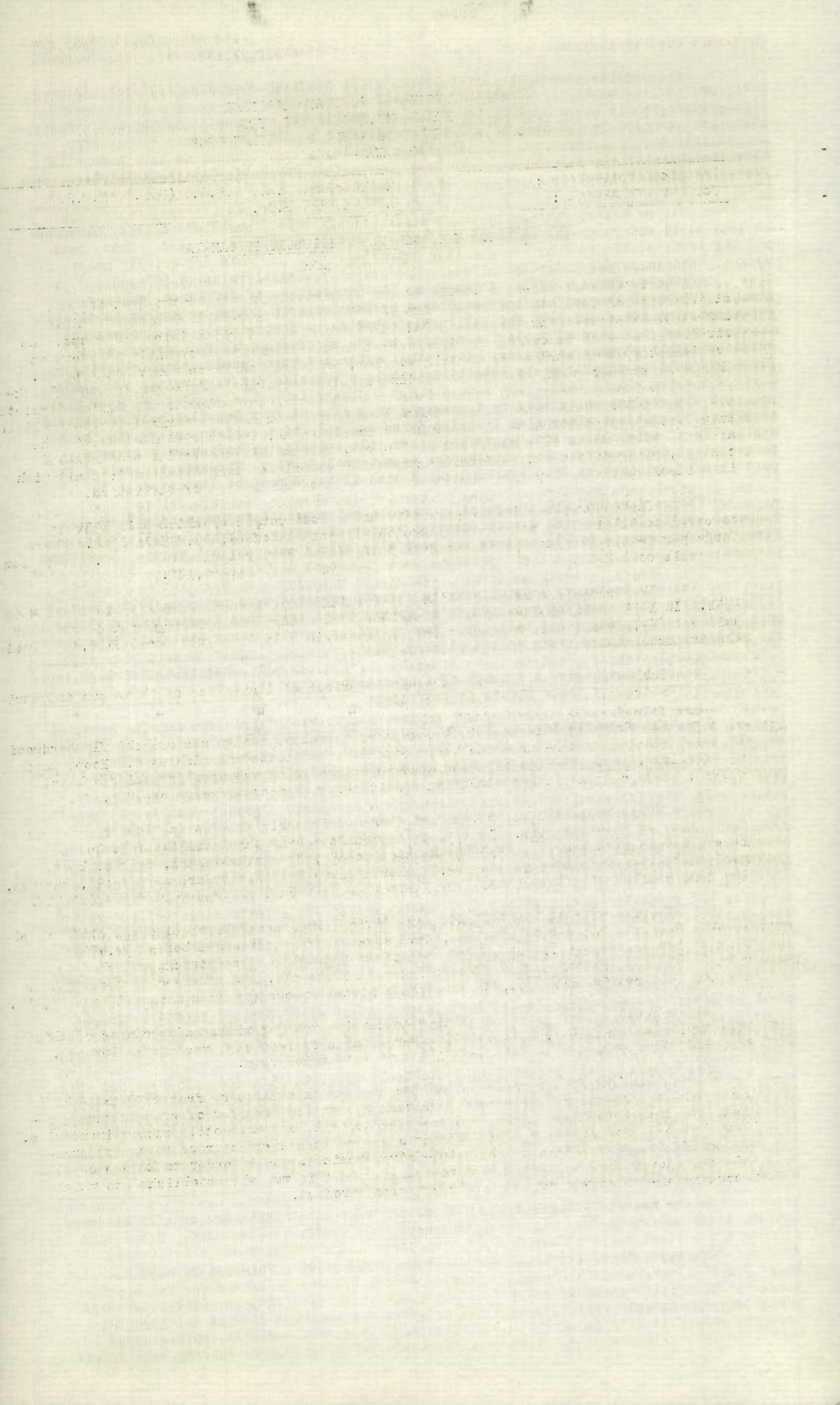
The raw materials used in the manufacture of vehicle parts are chiefly hardwood lumber, bolts and rough-turned spokes. Some softwood lumber is also used. Hoop, band and bar iron, steel and castings are also important. The products are chiefly hubs, spokes, bent goods and other miscellaneous items, with a total value of \$275,687.

Firms which manufacture, assemble or repair vehicles also use lumber as their most important raw material. In 1931 they purchased over three million feet board measure, valued at over \$196,275 in addition to \$56,837 worth of hubs, spokes, bent goods and other wooden vehicle parts. Other important materials are paint, oil, varnish, leather, upholstering materials, textiles, glass, and rubber tires valued at \$225,315.

The products of this industry are divided into complete wheeled vehicles valued at \$212,206, complete sleighs at \$56,608, gears \$8,030, bodies and boxes \$39,455, hubs, spokes, bent goods, etc., \$13,236. These firms also manufacture trucks and chassis valued at \$3,055 and truck and auto bodies valued at \$430,919. The amount received for painting and repairs was \$700,537, and other miscellaneous products amounted to \$422,350.

Tables 5 and 6 give the details concerning the materials and products of this industry, while Tables 7, 8, 9 and 10 cover details of capital invested, employment, fuel used and power employed in both industries in this group.

While there has been an actual decrease in this industry from 1930 to 1931, a large part of the apparent reduction has been due to the transfer of some twenty establishments from this industrial group to the automobile and automobile supply industries. There has been for some years, a tendency among vehicle manufacturers to change from the manufacture of horse-drawn to motor-driven vehicles and in order to keep pace with this tendency it has been necessary to transfer in this way all establishments which report motor-driven vehicles as their principal product.



THE CARRIAGE AND WAGON INDUSTRY, 1930 and 1931.

Table 1. - Principal Statistics, 1930 and 1931.

Items	Vehicle factories		Vehicle supplies	
	1930	1931	1930	1931
Establishments.....No.	317	247	6	4
Capital invested.....\$	7,662,388	4,068,077	659,801	400,786
Employees on salaries.....No.	166	310	16	13
Salaries paid.....\$	292,586	292,301	23,959	20,309
Employees on wages.....No.	1,587	445	94	71
Wages paid.....\$	1,646,807	472,822	115,849	69,567
Fuel used.....\$	67,689	39,640	7,067	3,761
Power employed.....H.P.	3,653	2,099	721	570
Cost of Materials.....\$	2,529,361	481,996	237,807	119,463
Value of products.....\$	6,098,657	1,927,132	468,455	275,687

Table 2. - Distribution of Establishments by Provinces, 1930 and 1931.

Provinces	Vehicle factories		Vehicle supplies	
	1930	1931	1930	1931
	No.	No.	No.	No.
CANADA	317	247	6	4
Quebec.....	174	136	-	-
Ontario.....	80	60	5	3
Nova Scotia.....	19	18	-	-
New Brunswick.....	20	18	-	-
Manitoba.....	7	2	1	1
Prince Edward Island.....	4	4	-	-
Alberta & British Columbia.....	7	4	-	-
Saskatchewan.....	6	5	-	-

Table 3. - Vehicle Supplies, Materials Used, 1930 and 1931.

Materials	Quantity		Value	
	1930	1931	1930	1931
			\$	\$
Lumber, Softwood (Pine, Spruce, etc.) M ft. B.M.....	83	48	3,911	2,409
Lumber, Hardwood (Birch, Oak, Basswood, etc.) M ft. B.M.....	2,152	1,240	174,706	104,337
Bolts, Softwood.....Cords	-	-	-	-
Bolts, Hardwood.....Cords	8	-	112	-
Hubs, spokes, bent goods, etc.....Value only	-	-	7,282	5,337
All other materials.....Value only	-	-	51,796	7,380
Total Value of Materials.....	-	-	237,807	119,463

IN SENATE

January 10, 1911

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REPORT OF THE COMMISSIONERS OF THE LAND OFFICE

Year	Area	Value	Notes
1907	1,234	\$1,234,567	
1908	1,345	\$1,345,678	
1909	1,456	\$1,456,789	
1910	1,567	\$1,567,890	
1911	1,678	\$1,678,901	

STATE OF NEW YORK

Year	Area	Value	Notes
1907	1,234	\$1,234,567	
1908	1,345	\$1,345,678	
1909	1,456	\$1,456,789	
1910	1,567	\$1,567,890	
1911	1,678	\$1,678,901	

STATE OF NEW YORK

THE CARRIAGE AND WAGON INDUSTRY, 1930 and 1931.

Table 4. - Vehicle Supplies, Products Manufactured, 1930 and 1931.

Products	Quantity		Value	
	1930	1931	1930	1931
			\$	\$
Hubs, spokes and bent goods.....	-	-	372,623	252,827
Bodies and boxes, splices, handles and dowels, hockey sticks, etc.....	-	-	95,832	22,860
Total Value of Products.....	-	-	468,455	275,687

Table 5. - Vehicle Factories, Materials Used, 1930 and 1931.

Materials	Quantity		Value	
	1930	1931	1930	1931
			\$	\$
Lumber, softwood (Pine, Spruce, etc.) M ft. B.M.....	1,019	451	32,977	13,559
Lumber, hardwood (Birch, Oak, Basswood, etc.) M ft. B.M.....	7,611	3,439	404,510	182,716
Bolts, softwood.....Cords	229	82	1,747	640
Bolts, hardwood.....Cords	594	237	6,043	2,062
Veneer and plywood.....M.surf.ft.	142	25	7,179	867
Hubs, spokes, bent goods, etc....Value only	-	-	132,684	56,837
All other materials.....Value only	-	-	1,944,221	225,315
Total Value of Materials.....	-	-	2,529,361	481,996

Table 6. - Vehicle Factories, Products Manufactured, 1930 and 1931.

Products	Quantity		Value	
	1930	1931	1930	1931
			\$	\$
Carriages and Wagons:				
Complete wheeled vehicles.....	5,490	2,390	571,868	212,206
Complete sleighs.....	2,196	863	116,169	56,608
Gears only.....	1,481	207	114,815	8,030
Bodies and boxes only.....Value only	-	-	45,581	39,455
Hubs, spokes, bent goods, etc...Value only	-	-	13,466	13,236
Bodies only (automobile and truck) Value only	-	-	2,100,369	430,919
Amount received for painting and repairs.....Value only	-	-	1,493,562	700,537
Total Value of Principal Products.....	-	-	4,455,830	1,460,991
Secondary Products:				
Axles and boxes, sanitary woodwork, automobiles, trucks, chassis, canoes, stepladders, wheels, furniture parts, auto parts, toboggan pungs, and all other products.....	-	-	1,642,827	466,141
Total Value of Products.....	-	-	6,098,657	1,927,132

Note:- Data given here do not necessarily represent the total Canadian production under each heading, since these products are also listed under other industries.

THE CARRIAGE AND WAGON INDUSTRY, 1930 and 1931.

Table 7(a). - Capital Invested, 1930 and 1931.

1930

Industry Group	Total Capital Invested	Land, buildings, fixtures, Machinery and Tools	Materials on hand, stocks in process	Cash, trading and operating accounts, etc.
	\$	\$	\$	\$
TOTAL	8,322,189	4,291,070	2,773,896	1,257,223
Vehicle factories	7,662,388	4,035,523	2,589,986	1,036,879
Vehicle supplies	659,801	255,547	183,910	220,344

Table 7(b)

1931

	Vehicle Factories		Vehicle Supplies	
	\$	\$	\$	\$
TOTAL	4,068,077		400,786	
Land, buildings, fixtures, machinery and tools.....	2,297,059		179,839	
Materials on hand, stocks in process...	674,210		93,893	
Finished products on hand.....	535,249		6,511	
Cash, trading and operating accounts, etc.....	561,559		120,543	

Table 8. - Employment, 1930 and 1931.

1930

Industry Group	Total Employees			Salaried Employees			Employees on Wages		
	Male	Female	Salaries and Wages	Male	Female	Salaries	Male	Female	Wages
TOTAL	1,821	42	2,079,201	152	30	316,545	1,669	12	2,762,656
Vehicle factories	1,715	38	1,939,393	140	26	292,586	1,575	12	1,646,807
Vehicle supplies	106	4	139,808	12	4	23,959	94	-	115,849

1931

TOTAL	823	16	854,999	308	15	312,610	515	1	542,389
Vehicle factories	742	13	765,123	298	12	292,301	444	1	472,822
Vehicle supplies	81	3	89,876	10	3	20,309	71	-	69,567

Table 9A. - Fuel Used, 1930.

Kind of fuel	Vehicle factories		Vehicle supplies		Total	
	Quantity	Value	Quantity	Value	Quantity	Value
TOTAL	-	67,689	-	7,067	-	74,756
Bituminous Coal, Can.....Tons	1,035	10,257	223	1,572	1,258	11,829
" " Imported..... "	5,453	34,655	381	2,265	5,844	36,920
Anthracite Coal..... "	404	5,687	-	-	404	5,687
Lignite Coal, Can..... "	82	780	-	-	82	780
" " Imported..... "	22	235	-	-	22	235
Coke..... "	65	844	-	-	65	844
Gasoline.....Gal.	16,384	4,834	40	12	16,424	4,846
Kerosene or coal oil..... "	255	59	-	-	255	59
Fuel oil..... "	11,806	1,171	-	-	11,806	1,171
Wood.....Cords	1,471	6,498	670	3,218	2,141	9,716
Gas (a) manufactured.....M.c.f.	685	683	-	-	685	683
Gas (b) natural..... "	1,163	915	-	-	1,163	915
Other fuel.....	-	1,071	-	-	-	1,071

THE CARRIAGE AND WAGON INDUSTRY, 1930 and 1931.

Table 9B. - Fuel Used, 1931.

Kind of fuel	Vehicle factories :		Vehicle supplies :		Total	
	Quantity	Value :	Quantity	Value :	Quantity	Value
		\$		\$		\$
TOTAL	23,258	39,640	603	3,761	23,861	43,401
Bituminous coal, Can.....Tons	668	6,852	203	1,043	871	7,895
" " Imported... "	2,766	16,909	390	2,715	3,156	19,624
Anthracite coal..... "	250	3,377	-	-	250	3,377
Lignite coal, Can..... "	36	328	-	-	36	328
" " Imported..... "	14	128	-	-	14	128
Coke..... "	73	804	-	-	73	804
Gasoline.....Gal.	12,671	3,505	10	3	12,681	3,508
Kerosene or coal oil..... "	458	116	-	-	458	116
Fuel oil..... "	4,597	469	-	-	4,597	469
Wood.....Cords	994	4,160	-	-	994	4,160
Mill waste..... -	-	655	-	-	-	655
Gas (a) manufactured.....M.c.f.	167	167	-	-	167	167
" (b) natural..... "	564	385	-	-	564	385
Other fuel..... -	-	1,785	-	-	-	1,785

Table 10A. - Power Employed, 1930.

Power units	Vehicle factories :		Vehicle supplies :		Total	
	No.	H.P.	No.	H.P.	No.	H.P.
Total power used	432	3,653	33	721	465	4,374
Stationary engines -						
Steam.....	16	889	3	255	19	1,144
Gas, oil and gasoline.....	104	644	1	10	105	654
Hydraulic turbines.....	2	7	-	-	2	7
Electric motors, purchased power.....	310	2,113	29	456	339	2,569
Electric motors, generated power.....	18	342	-	-	18	342
Boilers installed.....	27	1,248	6	565	33	1,813

Table 10B. - Power Employed, 1931.

Power units	Vehicle factories :		Vehicle supplies :		Total	
	No.	H.P.	No.	H.P.	No.	H.P.
Total power used	266	2,099	28	570	294	2,669
Stationary engines -						
Steam.....	5	520	2	185	7	705
Gas, oil and gasoline.....	83	485	-	-	83	485
Hydraulic turbines.....	-	-	-	-	-	-
Electric motors, purchased power.....	178	1,094	26	385	204	1,479
Electric motors, generated power.....	20	492	-	-	20	492
Boilers installed.....	13	731	33	1,035	46	1,766

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