

42-212
C.2

CANADA

DOMINION BUREAU OF STATISTICS

CENSUS OF INDUSTRY

REPORT

on the

CARRIAGE & WAGON INDUSTRY

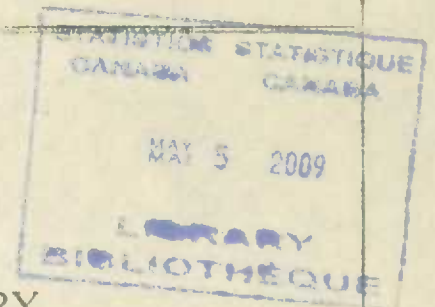
in

CANADA

1921 and 1922

INCLUDING:-

CARRIAGE AND WAGON FACTORIES
CARRIAGE AND WAGON MATERIALS



Published by Authority of the Hon. Thos. A. Low. M. P.,
Minister of Trade and Commerce.

+ + +

OTTAWA

1924

RECEIVED
JAN 10 1905
U.S. DEPT. OF AGRICULTURE
WASHINGTON, D.C.

DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS
CENSUS OF INDUSTRY - FOREST PRODUCTS STATISTICS
OTTAWA, CANADA.

Dominion Statistician: R. H. Coats, B.A., F.S.S., F.R.S.C.
Forest Products Statistics: R. G. Lewis, B. Sc.F.

THE CARRIAGE AND WAGON INDUSTRY IN CANADA

1921 and 1922

Ottawa, June, 1924.- A report on the manufacture of carriages, wagons, sleighs and parts thereof has been completed by the Dominion Bureau of Statistics for 1921 and 1922. 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 or 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 591 firms engaged in turning out complete vehicles in 1922 as compared to 570 in 1921 with a total capital investment of \$11,148,178 in 1922. These firms gave employment to 2,137 workers and paid \$2,270,560 in salaries and wages. Their raw materials cost \$2,543,600 and their products were valued at \$6,079,835.

The manufacturers specializing in vehicle supplies numbered 15 in 1922 as compared to 13 in 1921. In 1922 their capital amounted to \$1,474,645, their employees number 236 and they paid out \$284,667 in wages and salaries. Raw materials in this group cost \$374,439 while the products manufactured were valued at \$987,588.

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 and steel and castings are next in importance. The products in order of importance with regard to value are rims, spokes, shafts, hubs, axles, felloes, poles, tongues and smaller quantities of other vehicle parts with a total value of \$987,588. In addition to the 15 firms dealt with above which specialize in vehicle supplies, a number of sash and door factories in Canada manufacture these materials as side lines or by-products. Their output in 1922 was valued at \$58,251 making a grand total for vehicle supplies of \$1,045,839.

Firms which manufacture, assemble or repair vehicles also use lumber as their most important raw material. In 1922 they purchased over twelve million feet board measure valued at over half a million dollars in addition to \$291,593 worth of hubs, spokes, bent goods and other wooden vehicle parts. Iron, steel, aluminum, brass and other metals made up \$323,443, hardware and metal parts made up \$307,695. Other important materials are paint, oil, varnish, leather, upholstery materials, textiles, glass and rubber tires. Automobile chassis and automobile equipment made up \$354,719.

The products of this industry are divided into horse or hand drawn vehicles and those mechanically driven. The value of the former class in 1922 was \$1,912,829, made up chiefly of buggies and other light road vehicles, dump carts, wagons and commercial vehicles and sleighs. The value of mechanically propelled vehicles was \$1,362,060 consisting chiefly of commercial vehicles and vehicle bodies. Miscellaneous products and repair and custom work amounted to \$2,804,946, making a total for all products of the industry of \$6,079,835.

Tables 5 and 6 give the details concerning 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.

THE CARRIAGE AND WAGON INDUSTRY, 1921 and 1922

Table 1.- Principal Statistics, 1921-1922

Items	Vehicle factories		Vehicle Supplies	
	1921	1922	1921	1922
Establishments No.	570	591	13	15
Capital invested \$	10,653,760	11,148,178	2,005,563	1,474,645
Employees on salaries No.	-	284	46	41
Salaries paid \$	-	470,178	115,420	95,512
Employees on wages No.	2,298	1,889	242	195
Wages paid \$	2,373,358	1,800,382	296,995	189,155
Fuel used \$	153,247	161,447	56,891	28,693
Miscellaneous expenses \$	966,349	714,061	179,915	98,677
Power employed H.P.	-	4,806	-	1,375
Cost of materials ... \$	3,408,123	2,543,600	719,446	374,439
Value of products ... \$	7,694,338	6,079,835	1,862,766	987,588

Table 2.- Distribution of establishments by provinces, 1921-1922

Provinces	Vehicle Factories		Vehicle supplies	
	1921 No.	1922 No.	1921 No.	1922 No.
CANADA	570	591	13	15
Quebec	274	283	1	2
Ontario	192	206	12	12
Nova Scotia	44	36	-	-
New Brunswick	22	27	-	-
Manitoba	11	12	-	1
Prince Edward Island ..	8	9	-	-
British Columbia	5	7	-	-
Alberta	5	6	-	-
Saskatchewan	9	5	-	-

Table 3.- Vehicle supplies, Materials Used, 1921 and 1922.

Materials	Quantity		Value	
	1921	1922	1921	1922
TOTAL	-	-	\$719,446	\$374,439
Lumber, softwood	143	222	5,051	6,664
Lumber, hardwood	7,103	5,763	452,752	281,574
Club turned spokes	-	188,300	-	6,900
Bar iron and steel	-	-	200,391	2,134
Hoop and band iron	-	-	-	872
Castings, iron and steel	-	-	-	51,874
Iron rods	-	-	-	228
Iron piping	-	-	-	30
Hardware	-	-	21,799	2,025
Nails, screws, etc.....	-	-	-	1,743
Paint, oil and varnish	-	-	-	1,487
All other materials	-	-	39,453	18,908

4.

THE CARRIAGE AND WAGON INDUSTRY, 1921 and 1922.

Table 4.- Vehicle supplies, Products manufactured, 1921-1922

Products	Quantity		Value	
	1921	1922	1921	1922
TOTAL	-	-	1,862,766	987,588
Hubs	-	60,836	-	60,837
Spokes	-	296,402	-	142,689
Felloes	-	26,709	-	23,512
Rims	-	21,380	-	170,661
Axles	-	13,453	-	38,579
Bolsters	-	2,479	-	3,067
Reaches	-	1,595	-	4,741
Poles and tongues	-	3,865	-	19,575
Shafts	-	33,658	-	98,533
Sleigh runners	-	4,099	-	8,601
Sleigh bunks	-	430	-	832
Single or whiffle trees ...	-	5,666	-	12,793
Double trees	-	5,080	-	11,325
Neck yokes	-	3,579	-	3,399
All other vehicle supplies	-	-	-	388,444

Table 5.- Vehicle factories, Materials used, 1921 and 1922

Materials		Quantity		Value	
		1921	1922	1921	1922
TOTAL	\$	-	-	-	2,543,600
Lumber	M.ft.b.m.	22,555	12,040	679,342	523,687
Hubs, spokes, rims, etc. ...	\$	-	-	274,431	208,326
Shafts and poles	\$	-	-	102,531	60,646
Trees and yokes	\$	-	-	-	7,397
Sleigh runners	sets	-	1,324	-	15,224
Iron, cast and malleable	lbs.	-	2,087,035	644,103	145,071
Iron, galvanised	"	-	115,295	-	8,836
Steel	"	-	3,320,439	-	163,109
Aluminium	"	-	12,641	-	3,518
Brass and other metals ..	"	-	20,916	-	2,909
Springs and axles	\$	-	-	-	95,354
Carriage hardware	\$	-	-	-	122,192
Bolts, nuts, rivets, nails, &c.	\$	-	-	99,062	90,149
Leather	lbs.	-	57,422	-	26,146
Imitation leather and up- holstering	yds.	-	69,639	-	82,809
Hair, moss and stuffing ..	lbs.	-	156,824	-	12,945
Duck and canvas	yds.	-	23,868	-	18,596
Glass	sq.ft.	-	33,894	-	17,336
Rubber tires for vehicles	lbs.	-	115,847	-	48,031
Cases and tubes for autos	No.	-	1,826	-	40,909
Rubber tires for trucks ..	No.	-	202	-	4,588
Automobile chassis purchased	No.	-	200	-	88,395
Automobile equipment pur- chased	\$	-	-	-	266,324
Paint, oil, enamel & varnish	\$	-	-	-	186,306
All other materials	\$	-	-	1,608,654	304,797

THE CARRIAGE AND WAGON INDUSTRY, 1921 & 1922

Table 6.- Vehicle factories, Materials used, 1921-1922

Products	Quantity		Value	
	1921 No.	1922 No.	1921 \$	1922 \$
TOTAL	-	-	7,694,338	6,079,835
Horse and hand drawn vehicles -				
Light commercial vehicles	-	750)		170,027
Heavy drays and trucks	-	337)		59,731
Dump carts and wagons	-	1,099)		213,850
Hand, baggage, and warehouse trucks ..	-	191)		13,344
Other commercial vehicles	-	3,429)	4,664,978	397,639
Cabs, coaches and omnibuses	-	33)		6,238
Buggies and light vehicles	-	3,360)		652,532
Ambulances and hearses	-	52)		26,530
Fire apparatus and patrol wagons .	-	4)		7,650
Light commercial sleighs	-	410)		50,004
Heavy commercial sleighs	-	1,617)	80,013	143,231
Cutters and passenger sleighs	-	1,764)		172,053
Mechanically propelled vehicles -				
Baggage and indoor trucks	-	36	-	5,202
Light commercial vehicles, complete ..	-	200	-	44,350
Light commercial vehicle bodies ..	-	2,308	-	340,856
Heavy commercial vehicles, complete ..	-	1,002	-	454,669
Heavy commercial vehicle bodies ..	-	1,228	-	296,465
Ambulances and hearses, complete .	-	3	-	3,900
Ambulance and hearse bodies	-	42	-	45,337
Fire and police patrols complete .	-	2	-	900
Fire and police patrol bodies	-	1	-	235
Passenger automobiles, complete ..	-	18	-	20,244
Passenger automobile bodies	-	183	-	149,902
All other products	-	-	515,645	523,261
Repair work	-	-	2,433,702	2,281,685

Table 7.- Capital Invested, 1921 & 1922

Industry Group	1 9 2 1				
	Total Capital Invested	Land buildings and fixtures	Machinery and tools	Materials on hand stocks in process, etc.	Cash trading and operating accts., etc.
TOTAL	\$ 12,659,323	\$ -	\$ -	\$ -	\$ -
Vehicle factories	10,653,760	-	-	-	-
Vehicle supplies	2,005,563	506,798	593,930	399,935	504,900
	1 9 2 2				
	\$	\$	\$	\$	\$
TOTAL	12,622,823	4,375,003	1,657,562	4,249,286	2,340,972
Vehicle factories	11,148,178	4,038,791	1,354,247	3,909,717	1,845,423
Vehicle supplies	1,474,645	336,212	303,315	339,569	495,549

THE CARRIAGE AND WAGON INDUSTRY, 1921 and 1922.

Table 8.- EMPLOYMENT, 1921 and 1922

Industry Group	1 9 2 1			Salaried Employees			Employees on Wages		
	Total Employees								
	Male	F.	Salaries	M.	F.	Salaries	Male	F.	Wages
	No.	No.	\$	No.	No.	\$	No.	No.	\$
TOTAL	2,575	-	2,725,772	-	-	-	-	-	-
Vehicle factories	2,293	-	2,373,358	-	-	-	-	-	-
Vehicle supplies	277	11	412,415	39	7	115,420	238	4	296,925

	1 9 2 2								
	No.	No.	\$	No.	No.	\$	No.	No.	\$
	No.	No.	\$	No.	No.	\$	No.	No.	\$
	No.	No.	\$	No.	No.	\$	No.	No.	\$
TOTAL	2,338	71	2,555,227	271	54	565,690	2,067	17	1,989,537
Vehicle factories	2,115	58	2,270,560	240	44	470,178	1,875	14	1,800,382
Vehicle supplies	223	13	284,667	31	10	95,512	192	3	189,155

Table 9.- Fuel Used, 1922.

Kinds of Fuel		Vehicle factories		Vehicle supplies		Total	
		Quan.	Value	Quan.	Value	Quan.	Value
			\$		\$		\$
TOTAL	\$	-	161,447	-	28,693	-	190,140
Bituminous coal	tons	8,870	109,489	2,270	23,777	11,140	133,266
Anthracite coal	"	788	13,555	-	-	788	13,555
Lignite coal ..	"	148	2,021	-	-	148	2,021
Coke	"	173	2,181	-	-	173	2,181
Gasoline	gal.	18,101	6,297	100	36	18,201	6,333
Fuel oil	"	2,834	814	-	-	2,834	814
Wood	cords	2,438	20,611	600	4,080	3,038	24,691
Gas	m.c.f.	3,479	3,122	-	-	3,479	3,122
Other fuel	\$	-	3,357	-	800	-	4,157

Table 10.- Power Employed, 1921

Power units	Vehicle factories		Vehicle supplies		Total	
	Number	H.P.	No.	H.P.	No.	H.P.
Total power used	-	4,806	-	1,375	-	6,181
Stationary engines -						
Steam	29	2,015	11	790	40	2,805
Gas	29	244	1	5	30	249
Oil and gasoline	132	771	-	-	132	771
Hydraulic turbines	8	63	2	160	10	223
Electric motors, purchased power	148	1,713	33	420	181	2,133
Electric motors, generated power	80	735	4	100	84	835
Boilers installed	44	3,133	17	1,345	61	4,500

STATISTICS CANADA LIBRARY
BIBLIOTHÈQUE STATISTIQUE CANADA



1010633180