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THE BICYCLE MANUFACTURING INDUSTRY

1958

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The results of the annual Census of Industry are published by the Dominion Bureau of Statistics in a series of industry reports which are released each year as the compilations are completed. Reports for industries in the **Transportation Equipment** Major Group are listed below, along with current and annual publications of related interest. Similar reports are issued for other industries. A complete catalogue of publications of the Bureau is available on request from the Information Services Division, Dominion Bureau of Statistics, Ottawa, or from the Queen's Printer, Ottawa.

A — Annual

M — Monthly

Catalogue number	Title	Price
42-201	Transportation Equipment — General Review (A)50
42-203	Aircraft and Parts Industry (A)50
42-204	Bicycle Manufacturing Industry (A)25
42-205	Boatbuilding Industry (A)50
42-206	Shipbuilding Industry (A)25
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42-210	Motor Vehicles Parts Industry (A)50
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42-212	Miscellaneous Transportation Equipment Industry (A)25
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42-001	Preliminary Report on Production of Motor Vehicles (M) per year	1.00
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EXPLANATORY NOTES

This report is one in a series of about 130 publications which present the results of the 1958 Census of Manufactures. Most reports in this series refer to specific industries, but there are summary reports for Canada and the provinces and for major industry groups. An annual Census of Manufactures has been carried out by the Dominion Bureau of Statistics since 1916.

Industry statistics given in these reports refer to number of establishments, employees, salaries and wages, cost of materials, supplies, fuel and electricity, gross value of shipments, inventories and value added by manufacturing. Details of materials used and products shipped are also given. Descriptions of the principal industry statistics, with special reference to 1958, are as follows:

Period Covered

Firms are asked to submit figures for the calendar year, if at all possible, and most reports are on this basis. Financial year reports for periods differing from the calendar year are accepted in instances where the firms find it impossible to supply calendar year data from accounting records. However the data on employees, salaries and wages are requested on a calendar year basis in all cases.

Establishment

Data for the annual census is collected on an establishment basis. A firm with more than one plant is required to file a report for each plant. In most cases an establishment is a complete factory. Sometimes, however, a plant is divided into two or more establishments when it carries out operations classifiable to different industries and when separate accounting records are available. Usually the statistics for an establishment relate only to the manufacturing activities. Other activities such as construction at the plant by its own employees, wholesale or retail activities carried on at the plant location, etc., are not included. Plants engaged solely in repair work (except in the case of furniture, shipbuilding, boat building, aircraft and railway rolling stock industries) are not included but plants occupied in assembling parts into complete units are included.

Employees

Administrative and office employees include all executives and supervisory officials such as presidents, vice-presidents, secretaries, treasurers, etc., together with managers, professional and technical employees, superintendents and factory supervisors above the working foremen level and clerical employees. Working owners and partners are also included in this category.

Production and related workers include all other factory workmen whether paid on a monthly, weekly, hourly or piece-work basis. Working foremen doing work similar to that of the employees they supervise are included, as are maintenance, warehousing and delivery staffs. Employees on new construction work, in retail or wholesale operations, on outside piece work etc., are not included.

Production workers are reported by months, an average for the year being obtained by summing the monthly figures and dividing by twelve. This procedure is followed even though the plant did not operate in all months. Figures on employment refer to calendar years whether or not some establishments reported other data on a financial year basis.

Salaries and Wages

Salaries and wages refer to gross earnings of the employees described above, including salaries, wages, commissions, bonuses, the value of room and board where provided, deductions for income tax and social services such as sickness and unemployment insurance, pensions, etc., as well as any other allowances forming part of the employees' wages. Payments for overtime are included.

Salaries refer to amounts paid to administrative and office employees. Withdrawals by working owners or partners for normal living expenses for self and family are included but not their withdrawals for income tax. Wages refer to the amounts paid to production and related workers as defined above. Data on earnings refer to the calendar year whether or not some establishments reported other data on a financial year basis.

Cost of Fuel and Electricity

Figures for fuel refer to amounts actually used, (including fuel used in cars and trucks), not to purchases unless the quantities are the same. Values refer to the laid-down cost at the works, including freight, duty, etc.

Materials and Supplies Used

Figures represent quantities and laid-down cost values, at the works, of materials and supplies actually used during the year whether purchased from others or received as transfers from other plants of the reporting company. Amounts paid to other manufacturers for work done on materials owned by the reporting company are included. Returnable containers or any other items charged to capital account are not included. Fuels are not included. Goods bought from others or received as transfers from other plants of reporting companies

for resale without further processing are not included. Maintenance and repair supplies not chargeable to capital account are included.

Factory Shipments

Factory shipments refer to shipments of goods made from own materials either in the reporting plant or by other manufacturers on the basis of a charge to the reporting plant for work done. All products and by-products shipped from the establishment are included whether for domestic use, export, or for government departments. Transfer shipments to sales outlets, distributing warehouses or to other manufacturing units of the reporting firm are included. Goods bought or received as transfers and resold without further processing are not included. Values are computed on f.o.b. plant or plant warehouse basis, and do not include sales tax or excise duties. Values of containers not returnable are included. Amounts received in payment for work done on materials owned by others are included.

In a few industries such as shipbuilding, aircraft, etc., where work on principal products extend over a relatively long period, the value of production is recorded rather than the value of shipments. For those industries production is computed from the value of deliveries of complete units during the year plus the value of work done during the year on unfinished units less the value of work done in previous years on finished units delivered in the year under review.

Inventories

Values represent the book values of manufacturing inventories owned and held at the reporting plant. Figures include inventories held in warehouses or selling outlets which have been included with plant operations for purposes of reporting shipments.

Value Added by Manufacturing

Figures are computed from value of shipments plus or minus changes in inventories of finished

goods and goods in process less cost of materials, fuel and electricity. This figure is sometimes referred to as net production.¹

Standard Industrial Classification

The Standard Industrial Classification Manual, prepared by the Dominion Bureau of Statistics, provides for 135 three-digit industries in the manufacturing sector, arranged in 17 major groups. Reporting establishments are classified or allotted to specific industries on the basis of the value of principal products made or shipped.

Short Forms

Prior to 1949 all manufacturing firms, regardless of size, were required to complete a standard form annually covering all census details, but for later years an effort was made to ease the reporting burden for smaller firms which usually do not maintain regular records in the required detail. A modified or short form was introduced in 1949 asking for the total value of shipments only, or in industries with a large number of small firms, for total value of shipments and quantities and values of a few principal products. Using the ratio of value of shipments in the current year to value of shipments in the base year, 1948, estimates of other census data were made for each plant for inclusion in the regular compilations. In general, the cut-off point for short forms was set at \$50,000 gross value of shipments annually, but there were lower cut-offs for a number of industries in which the small firms accounted for a larger share of total shipments. About 40 per cent of the total number of establishments reported on the modified or short form. They accounted for less than 3 per cent of the total value. In 1958, to establish a new base year, the small firms were again asked to report data on employees, salaries and wages, and other principal statistics together with some detail on material and products.

¹ To arrive at the National Accounts concept of "gross domestic product at factor cost", it would be necessary to subtract also the cost of office supplies used, advertising, insurance and other goods and services obtained from other businesses. Data on these inputs are not collected on the annual Census of Manufactures. Value added figures for "The primary industries and construction" are published in D.B.S. publication 61-202, *Survey of Production*.

THE BICYCLE MANUFACTURING INDUSTRY

1958

Factory shipments by factories in Canada which were engaged principally in the manufacture of bicycles, tricycles and bicycle parts were valued at \$6,624,646 in 1958 almost unchanged from the \$6,635,621 reported in 1957. Products made by firms in this group included bicycles, tricycles and bicycle parts and accessories and miscellaneous products such as ice skates, childrens' wagons, strollers, etc. Only those firms which made bicycles, tricycles and bicycle parts as their main products have been

included in this group, however, Table 3 shows the total production of bicycles regardless of the industry in which produced.

Five factories were classified to this group in 1958, 2 being located in Quebec and 3 in Ontario. These works gave employment to 672 people who were paid \$2,497,715 in salaries and wages. Fuel and electricity cost \$98,656 and materials and supplies for use in manufacturing processes cost \$2,211,143.

TABLE 1. Principal Statistics of the Bicycle Manufacturing Industry by Significant Years, 1929-1958

Year	Establishments	Employees	Salaries and wages	Cost of fuel and electricity at plant	Cost at plant or materials used	Value added by manufacture ¹	Gross selling value of products ¹
	number				dollars		
1929	3	590	737,410	35,577	1,132,219	1,302,587	2,470,383
1933	3	236	247,054	23,307	276,816	412,501	712,624
1937	4	429	484,889	39,495	988,546	854,627	1,882,668
1939	5	494	584,887	41,963	1,059,104	953,592	2,054,659
1942	8	748	1,504,288	74,834	1,458,129	1,860,735	3,393,698
1946	7	707	1,217,162	74,132	1,725,538	1,886,704	3,686,374
1949	13	1,235	2,861,655	141,826	4,056,836	4,230,557	8,429,219
1954	6	1,053	3,418,139	136,287	2,117,083	6,429,952	8,718,202
1955	6	640	2,141,014	107,543	1,529,113	4,146,004	5,875,752
1956	5	627	2,192,024	102,334	2,064,977	4,190,887	6,424,483
1957	5	659	2,347,661	99,619	2,162,497	4,633,585	6,635,621
1958	5	672	2,497,715	98,656	2,211,143	4,404,902	6,624,646

¹ Due to lack of inventory data, figures for value added by manufacture prior to 1954 were obtained by subtracting the cost of materials used, including fuel and electricity, from the total value of factory shipments. In 1954 and 1955 the "Value added" adjustment incorporated the increase or decrease to shipments values resulting from changes in the value of inventories over the period. For these two years, the adjustments that were made used only the change in finished product inventory owned by manufacturers. Beginning with 1956 the calculation of the "Value added" figure was further adjusted to take into account the "Goods in process" as well as the finished goods held at plant or plant warehouses.

TABLE 2. Inventories,¹ 1958

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
			dollars	
Opening	648,109	693,917	574,840	1,916,866
Closing	568,626	743,867	614,945	1,927,438

¹ Book value of all manufacturing inventories owned and held at plant and plant warehouses.

Note: Beginning with 1954, information on the value of year-end inventory holdings at plant and plant warehouses is being collected as part of the annual Census of Industry. These data were formerly collected by a separate survey. The summarized results for the Bicycle Manufacturing Industry for the year under review are shown in the above table.

TABLE 3. Production¹ of Bicycles, 1949-1958

Year	Number	Selling value at works	Year	Number	Selling value at works
		\$			\$
1949	130,413	4,141,629	1954	71,530	2,365,689
1950	122,031	3,961,028	1955	96,371	2,931,039
1951	91,611	3,158,470	1956	100,884	3,112,846
1952	82,375	2,837,859	1957	96,355	2,888,020
1953	101,460	3,559,464	1958	109,093	3,058,761

¹ Includes also the production by concerns which were not included in the Bicycle Manufacturing Industry.

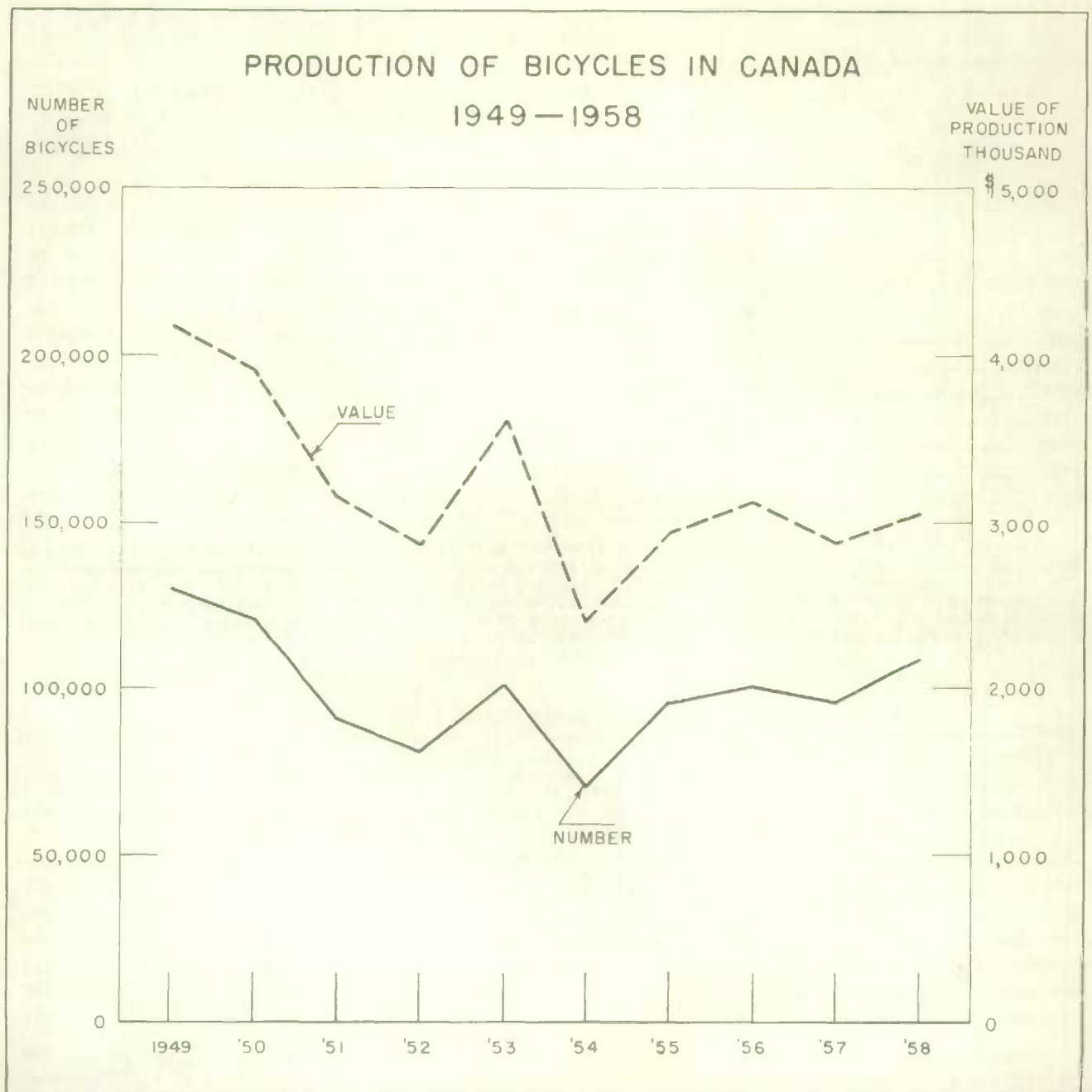


TABLE 4. Capital and Repair Expenditures in the Bicycle Manufacturing Industry, 1954 - 1958

Year	Capital expenditures		Sub-total	Repair and maintenance expenditures		Sub-total	Total capital and repair expenditures
	Construction	Machinery and equipment		Construction	Machinery and equipment		
	thousands of dollars						
1954	2	2	126	2	2	196	322
1955	2	2	331	2	2	235	566
1956	2	2	289	2	2	138	427
1957	2	2	421	2	2	165	586
1958 ¹	2	2	271	2	2	173	444

¹ Preliminary.² Not available separately - see sub-total.

TABLE 5. Employees and their Earnings in the Bicycle Manufacturing Industry, 1954 - 1958

Year	Employees					Earnings		
	Office and supervisory		Production workers		Total	Office and supervisory	Production workers	Total
	Male	Female	Male	Female				
	number					dollars		
1954	161	81	733	78	1,053	890,400	2,527,739	3,418,139
1955	113	49	418	60	640	672,737	1,468,277	2,141,014
1956	92	52	427	56	627	598,321	1,593,703	2,192,024
1957	106	60	440	53	659	732,991	1,614,670	2,347,661
1958	123	63	431	55	672	837,735	1,659,980	2,497,715

TABLE 6. Production Workers, by Months, 1957 and 1958

Month	1957			1958		
	Male	Female	Total	Male	Female	Total
	number					
January	435	54	489	372	47	419
February	432	55	487	388	48	436
March	436	55	491	410	52	462
April	460	53	513	427	54	481
May	468	55	523	416	57	473
June	466	54	520	447	63	510
July	466	56	522	458	65	523
August	452	56	508	441	62	503
September	430	55	485	442	62	504
October	427	50	477	460	59	519
November	414	47	461	463	52	515
December	402	47	449	447	44	491
Average	440	53	493	431	55	486

TABLE 7. Imports and Exports of Bicycles, 1949-1958

Year	Imports		Exports ¹	
	Number	Value	Number	Value
		\$		\$
1949	29,352	771,856	33	64,991
1950	29,283	605,094	266	12,633
1951	37,034	787,031	52	10,512
1952	30,315	697,857	90	4,825
1953	63,124	1,360,483	181	8,657
1954	91,382	1,794,836	32	13,290
1955	94,256	1,862,460	52	3,600
1956	124,167	2,498,991	18	1,888
1957	128,813	2,377,447	9	5,409
1958	131,161	2,475,010	10	5,289

¹ Value of exports includes parts as well as complete units.

TABLE 8. Fuel and Electricity Used in the Bicycle Manufacturing Industry, 1957 and 1958

Kind	1957		1958	
	Quantity	Cost at works	Quantity	Cost at works
		\$		\$
Bituminous coal—Imported ton	3,317 ¹	41,565 ¹	3,403	44,083
Anthracite coal "	5	100	5	100
Gasoline (including gasoline used in cars and trucks) Imp. gal.	1,000	400	1,000	400
Wood cord	10	100	10	100
Fuel oil Imp. gal.	37,186	5,975	11,472	1,977
Gas—Liquefied petroleum gases (propane, etc.) " "	50,538	6,052	80,982	10,780
Natural M cu. ft.	5,811	5,067	140	144
Other fuel —	—	—	—	—
Electricity purchased kwh.	2,564,516	40,360	2,707,650 ²	41,062
Total	—	99,619	—	98,656

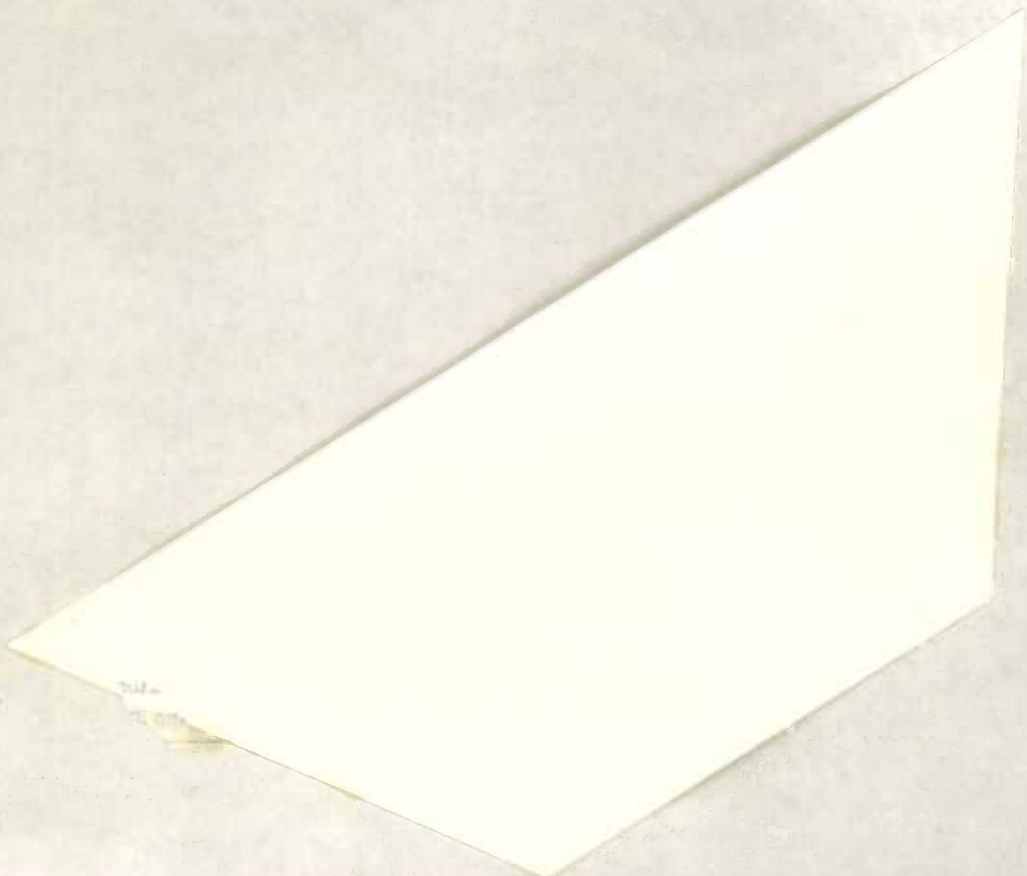
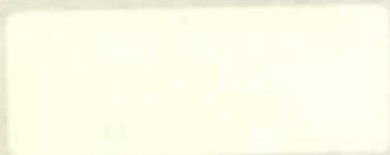
¹ Revised.

² Electric motors installed total 670 h.p.

List¹ of firms in the Bicycle Manufacturing Industry, 1958

Name	Address
Quebec:	
Royal Industry Reg'd	3425 Doré St., Montreal
Victoria Precision Works Co. Ltd.	2901 Rouen St., Montreal
Ontario:	
Canada Cycle and Motor Company Limited	Weston
Standard Cycle Products Limited	600 Victoria Park Ave., Toronto
Werlich Industries Ltd.	Bishop St., Preston

¹ Includes only those firms which made bicycles, tricycles or bicycle parts as their main products. Bicycles were made also as a minor product by concerns in other industries.



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