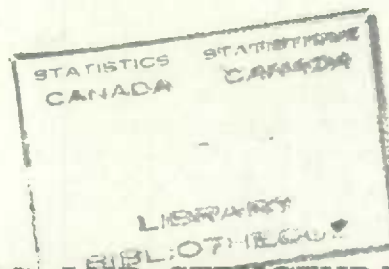


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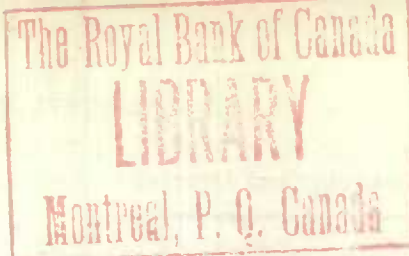


THE BRIDGE BUILDING ~~AND~~ STRUCTURAL STEEL  
INDUSTRY, 1951

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## NOTICE

The annual reports prepared by the Industry and Merchandising Division of the Bureau of Statistics are divided into 4 volumes, as follows: **Volume I**—The Primary Industries, including mining, forestry and fisheries; **Volume II**—Manufacturing; **Volume III**—Construction; **Volume IV**—Merchandising and Services. The volumes are made up of parts, and the parts in turn are subdivided according to the industries which they comprise.

Volume II consists of the following parts, the first two of which deal with manufacturing as a whole and the balance with the major manufacturing groups.

- I—General Review of the Manufacturing Industries, \$1.50.
- II—The Manufacturing Industries, by Provinces
  - Section 1. Principal Statistics of Major Industrial Groups and Leading Industries, 50¢.
  - Section 2. Principal Statistics of Individual Industries, 75¢.
  - Section 3. Principal Statistics by Regional Distribution, 75¢.
- III—Foods and Beverages
- IV—Tobacco and Tobacco Products
- V—Rubber Products
- VI—Leather Products
- VII—Textiles
- VIII—Wood and Paper Products
- IX—Printing Trades
- X—Iron and Steel Products
- XI—Transportation Equipment
- XII—Non-ferrous Metal Products
- XIII—Electrical Apparatus and Supplies
- XIV—Non-metallic Mineral Products
- XV—Products of Petroleum and Coal
- XVI—Chemicals and Allied Products
- XVII—Miscellaneous Manufactures

The present report belongs in Part X, Iron and Steel Products. It is punched to permit of filing in a ring binder along with others of the group. The reports in this group are:

- A—General Review, 25¢.
- B—The Agricultural Implements Industry, 25¢.
- C—The Boilers and Plate Work Industry, 25¢.
- D—The Bridge Building and Structural Steel Industry, 25¢.
- E—The Hardware, Tools and Cutlery Industry, 25¢.
- F—The Heating and Cooking Apparatus Industry, 25¢.
- G—The Machinery Industry, 25¢.
- H—The Machine Shops Industry, 25¢.
- I—The Iron Castings Industry, 25¢.
- J—The Primary Iron and Steel Industry, 25¢.
- K—The Sheet Metal Products Industry, 25¢.
- L—The Wire and Wire Goods Industry, 25¢.
- M—The Miscellaneous Iron and Steel Products Industry, 25¢.

(474-1952)

# THE BRIDGE BUILDING AND STRUCTURAL STEEL INDUSTRY, 1951

The value of work done by concerns in the Bridge Building and Structural Steel Work Industry amounted to \$109,650,351 in 1951 compared with \$82,003,268 in the previous year, an increase of 33.7 per cent.

This industry includes all concerns which were occupied chiefly in fabricating or erecting steel for bridges, buildings, etc., and in 1951 covered the operations of 34 plants of which 16 were located in Ontario, 10 in Quebec, 3 in Alberta, 2 in Manitoba, 2 in British Columbia and 1 in Nova Scotia.

These firms gave employment to a total of 8,608 workers who were paid \$28,278,426 in salaries and wages. Fuel and electricity cost \$1,094,789, and expenditures for use in manufacturing amounted to \$48,652,449.

The principal products were 194,909 tons of structural work for buildings at \$54,181,742; 53,937 tons of other structural work, such as bridges, transmission towers, etc., at \$15,446,303; plate and structural work at \$7,078,010; and mechanical work, including cranes, trolleys, etc., at \$1,558,506. Sales of plain material were worth \$13,480,727.

**TABLE 1. Principal Statistics for The Bridge Building and Structural Steel Work Industry, 1947-1951**

Year	Number of plants	Number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works	Net <sup>1</sup> value of production
			\$	\$	\$	\$	\$
1947 .....	26	7,178	16,132,591	724,861	22,160,375	52,559,258	29,674,022
1948 .....	27	7,407	19,165,403	847,392	29,527,341	66,229,635	35,854,902
1949 .....	29	7,149	18,576,533	802,391	30,936,308	75,692,231	43,953,532
1950 .....	33	7,434	22,382,499	968,742	36,659,245	82,003,268	44,375,281
1951 .....	34	8,608	28,278,426	1,094,789	48,652,449	109,650,351	59,903,113
Per cent change 1951 from 1950	—	+15.8	+26.3	+13.0	+32.7	+33.7	+35.0

Note: Profits or losses cannot be calculated from above figures as data are not available for general expense items, such as interest, rent, depreciation, taxes, insurance, advertising, etc.

1. Gross value less cost of materials, fuel and electricity.

**TABLE 2. Principal Statistics, by Provinces, 1950 and 1951**

Province	Number of plants	Number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
			\$	\$	\$	\$
<b>1950</b>						
Quebec .....	11	2,581	8,074,476	341,667	13,002,327	26,901,867
Ontario .....	14	3,080	9,189,273	401,769	15,249,175	33,521,670
Alberta .....	3	414	1,008,107	28,253	1,321,477	3,017,140
Nova Scotia .....	1	1,359	4,110,643	197,053	7,086,266	18,562,591
Manitoba .....	2					
British Columbia .....	2					
<b>Canada .....</b>	<b>33</b>	<b>7,434</b>	<b>22,382,499</b>	<b>968,742</b>	<b>36,659,245</b>	<b>82,003,268</b>
<b>1951</b>						
Quebec .....	10	2,843	9,340,705	358,637	17,094,617	36,048,319
Ontario .....	16	3,836	12,969,870	503,360	19,753,557	45,039,923
Alberta .....	3	480	1,310,710	31,146	1,718,409	3,916,096
Nova Scotia .....	1	1,449	4,657,141	201,646	10,085,866	24,646,013
Manitoba .....	2					
British Columbia .....	2					
<b>Canada .....</b>	<b>34</b>	<b>8,608</b>	<b>28,278,426</b>	<b>1,094,789</b>	<b>48,652,449</b>	<b>109,650,351</b>



TABLE 3. Products Made in The Bridge Building and Structural Steel Work Industry, 1950 and 1951

Product	1950		1951	
	Quantity	Selling value at works	Quantity	Selling value at works
	tons	\$	tons	\$
Structural work:				
Buildings .....	146,940	37,432,490	194,909	54,181,742
Bridges .....	29,264	7,618,703	26,232	8,126,117
Transmission towers .....	16,451	3,911,811	8,805	2,339,923
All other .....	11,714	3,718,659	18,900	4,980,263
Plate and tank work, including tanks, hoppers, digesters, etc. ....	—	4,038,960	—	7,078,010
Mechanical work, including cranes, trolleys, etc. ....	—	1,832,471	—	1,558,506
Sales of plain material (channels, etc., unfabricated) .....	83,199	11,053,501	82,224	13,480,727
Custom work and repairs .....	—	808,180	—	572,351
Other products <sup>1</sup> .....	—	11,588,493	—	17,332,712
<b>Total products</b> .....	—	<b>82,003,268</b>	—	<b>109,650,351</b>

1. Includes miscellaneous machinery, boilers, barges, reinforcing steel, etc.

Note: Plate and tank work and some structural work was done also in other industries, particularly in the Boilers, Tanks and Platework Industry.

TABLE 4. Materials Used in The Bridge Building and Structural Steel Work Industry, 1951

Material	Unit of measure	Quantity	Cost at works
			\$
Iron:			
Iron castings of all kinds .....	ton	2,280	424,785
Steel (except alloy steel):-			
Steel castings .....	"	332	72,912
Bars .....	"	35,914	4,545,748
Plates (3/16 in. and thicker) .....	"	77,075	8,455,211
Shafting .....	"	7	1,680
Sheets (under 3/16 in.):-			
Black .....	ton	5,391	648,406
Galvanized .....	"	80	16,118
Strips (less than 14 in. wide) .....	ton	524	59,808
Structural shapes .....	"	227,783	24,146,644
Alloy steel in all forms:-			
Carbon and alloy tool steel, including high speed - Billets, bars, rods .....	—	—	18,260
Other .....	—	—	45,096
Stainless - Billets, bars and rods .....	—	—	1,260
Other .....	—	—	11,265
Other alloy - Billets, bars and rods .....	—	—	5,412
Other .....	—	—	6,714
Pipe and fittings, iron and steel .....	—	—	117,445
Other iron and steel .....	—	—	1,693,809

TABLE 4. Materials Used in The Bridge Building and Structural Steel Work Industry, 1951 - Concluded

Material	Unit of measure	Quantity	Cost at works
			\$
Non-ferrous metals in all forms:-			
Aluminum - Castings .....	—	—	—
Sheet .....	pound	3, 260	1, 470
Other forms .....	"	575	230
Brass and Bronze .....	pound	39, 632	18, 448
Copper .....	"	2, 200	652
Lead .....	"	2, 200	660
Zinc .....	"	2, 092, 543	373, 579
Other materials and supplies:-			
Electrical apparatus and supplies .....	—	—	445, 945
Other complete parts purchased (such as engines, boilers, instruments, etc.) ..	—	—	1, 836, 850
Paints, oils and varnishes .....	—	—	354, 962
Lumber .....	M. bd. ft.	1, 282	136, 657
Acetylene .....	Cu. ft.	2, 236, 320	63, 187
Oxygen .....	"	10, 483, 201	124, 270
All other materials .....	—	—	5, 026, 966
<b>Total materials and supplies .....</b>	<b>—</b>	<b>—</b>	<b>48, 652, 449</b>

TABLE 5. Employees, Salaries and Wages, by Provinces, in The Bridge Building and Structural Steel Work Industry, 1950 and 1951

Province	Number of employees					Earnings		
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	Total
	Male	Female	Male	Female		\$	\$	\$
<b>1950</b>								
Quebec .....	586	130	1, 857	8	2, 581	3, 074, 958	4, 999, 518	8, 074, 476
Ontario .....	576	136	2, 344	24	3, 080	2, 538, 773	6, 650, 500	9, 189, 273
Alberta .....	68	14	330	2	414	259, 729	748, 378	1, 008, 107
Other provinces .....	235	43	1, 077	4	1, 359	1, 115, 392	2, 995, 251	4, 110, 643
<b>Canada .....</b>	<b>1, 465</b>	<b>323</b>	<b>5, 608</b>	<b>38</b>	<b>7, 434</b>	<b>6, 988, 852</b>	<b>15, 393, 647</b>	<b>22, 382, 499</b>
<b>1951</b>								
Quebec .....	651	146	2, 022	24	2, 843	3, 211, 507	6, 129, 198	9, 340, 705
Ontario .....	585	148	3, 087	16	3, 836	3, 165, 100	9, 804, 770	12, 969, 870
Alberta .....	96	16	366	2	480	368, 171	942, 539	1, 310, 710
Other provinces .....	289	47	1, 103	10	1, 449	1, 290, 249	3, 366, 892	4, 657, 141
<b>Canada .....</b>	<b>1, 621</b>	<b>357</b>	<b>6, 578</b>	<b>52</b>	<b>8, 608</b>	<b>8, 035, 027</b>	<b>20, 243, 399</b>	<b>28, 278, 426</b>

## List of Firms in The Bridge Building and Structural Steel Work Industry, 1951

Name of Firm	Location of Plant
<b>Nova Scotia:</b>	
Robb Engineering Works Limited .....	51 La Planche St., Amherst
<b>Quebec:</b>	
B & H Metal Industries Co. Ltd. ....	4650 Notre Dame St. E., Montreal
Canadian Structural Steel Works Co. Ltd. ....	4600-17th Ave., Rosemount (Montreal)
Dominion Structural Steel Limited .....	6894 Clanranald Ave., Montreal
Dominion Bridge Co. Ltd. ....	Lachine
Eastern Canada Steel & Iron Works Limited .....	Lesage Ave., Quebec
Leeds' Bridge and Iron Works Ltd. ....	175 Wanklyn St., Ville la Salle
Lord & Company Ltd. ....	4700 Iberville St., Montreal
Mackinnon Structural Steel Company Limited .....	Sherbrooke
Modern Metal Works Reg'd .....	266-10th Ave., Sherbrooke
Standard Structural Steel Ltd. ....	6333 St. Lawrence, Montreal
<b>Ontario:</b>	
The Canadian Bridge Company Limited .....	121 Walker Road, Walkerville
Central Bridge Company Limited .....	300 West St., Trenton
Disher Steel Construction Co. Limited .....	80 Commissioners St., Toronto
Dominion Bridge Company Limited .....	1139 Shaw St., Toronto
Dominion Bridge Company Limited .....	Charlevoix St., Eastview
Eansor, T. J., & Sons Limited .....	300 Pitt St. E., Windsor
Frankel Corporation Limited .....	Eastern Ave. & Don Roadway, Toronto
Hamilton Bridge Company Limited .....	231-233 Bay St. N., Hamilton
Hepburn, John T., Limited .....	914-948 Dupont St., Toronto
Leeds Bridge and Iron Works Limited .....	Crosby Road, Gananoque
Lock, J. H., & Sons, Ltd. ....	150 Perth Ave., Toronto
London Steel Construction Co., Limited .....	48 Burslem St., London
Sarnia Bridge Co. Limited .....	251 Campbell St., Sarnia
Sault Structural Steel Company Limited .....	Wilde Ave., Sault Ste. Marie
Standard Iron & Steel Works Limited .....	3402 Dundas St. W., Toronto
Standard Steel Construction Co. Division of United Steel Corporation Ltd. ....	Port Robinson
<b>Manitoba:</b>	
Dominion Bridge Company, Limited .....	Dublin Ave., Winnipeg
Winnipeg Bridge Company, Limited .....	153 Aubert St., St. Boniface
<b>Alberta:</b>	
Dominion Bridge Company Limited .....	803-24th Ave. S.E., Calgary
Standard Iron & Engineering Works, Limited .....	120th St. and 107th Ave., Edmonton
Western Metal Fabricators Ltd. ....	2nd Ave. & 15th St. S., Lethbridge
<b>British Columbia:</b>	
Dominion Bridge Co. Ltd. ....	Boundary Road, Burnaby
Western Bridge and Steel Fabricators Ltd. ....	145 W. 1st Ave., Vancouver

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