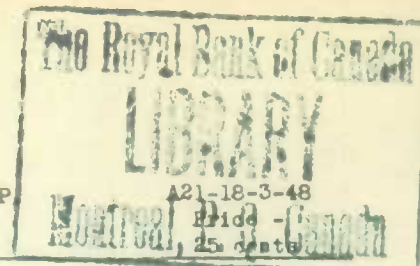


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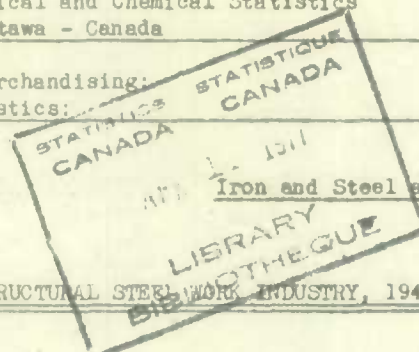


Canada, Department of Trade and Commerce  
Dominion Bureau of Statistics  
Mining, Metallurgical and Chemical Statistics  
Ottawa - Canada

Dominion Statistician:  
Director - Division of Census of Industry and Merchandising:  
Chief - Mining, Metallurgical and Chemical Statistics:

Herbert Marshall  
W. H. Losee  
H. McLeod

# Annual Industry Report



Iron and Steel and Their Products Group

## THE BRIDGE BUILDING AND STRUCTURAL STEEL WORK INDUSTRY, 1946

The value of work done by concerns in the Bridge Building and Structural Steel Work Industry amounted to \$40,122,695 in 1946 compared with \$46,435,278 in the previous year.

This industry includes all concerns which were occupied chiefly in fabricating or erecting steel for bridges, buildings, etc., and in 1946 covered the operations of 25 plants, of which 12 were located in Ontario, 8 in Quebec, 2 in British Columbia, 2 in Manitoba and 1 in Alberta.

These firms gave employment to a monthly average of 6,091 workers who were paid \$12,825,390 in salaries and wages. Fuel and electricity cost \$639,503 and expenditures for materials for use in manufacturing amounted to \$18,896,434.

The principal products were: 6,437 tons of bridges at \$1,206,307; 123,787 tons of other structural work, such as buildings, transmission towers, etc., at \$20,949,485; plate and tank work at \$1,859,671, and mechanical work, including cranes, trolleys, etc., at \$1,103,353. Sales of plain material were worth \$8,234,375.

Table 1 - PRINCIPAL STATISTICS FOR THE BRIDGE BUILDING AND STRUCTURAL STEEL WORK INDUSTRY, 1936-1946

Year	Number of plants	Average 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
1936 .....	18	2,567	3,686,714	206,549	5,355,196	11,913,918
1937 .....	19	3,418	5,004,456	247,801	8,657,728	16,850,324
1938 .....	21	3,245	5,097,158	252,789	8,006,023	14,817,901
1939 .....	21	2,949	4,546,648	232,377	6,786,893	15,840,592
1940 .....	22	4,409	7,478,171	388,958	16,158,502	31,230,062
1941 .....	22	7,162	12,566,538	576,908	20,261,731	58,355,506
1942 .....	22	9,117	19,028,055	713,367	28,528,769	63,383,569
1943 .....	22	10,974	23,175,872	1,005,517	24,014,652	72,515,834
1944 .....	22	8,784	19,409,905	878,640	23,936,307	58,409,746
1945 .....	23	7,057	15,087,130	806,164	18,908,255	46,435,278
1946 .....	25	6,091	12,825,390	639,503	18,896,434	40,122,695
Per cent change 1946 from 1945	...	-13.7	-15.0	-20.6	-0.06	-13.6

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.

Table 2 - PRINCIPAL STATISTICS, BY PROVINCES, 1945 and 1946

Province	Number of plants	Average 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
			\$	\$	\$	\$
<u>1945</u>						
Quebec .....	6	2,341	5,281,954	314,745	6,177,900	13,601,425
Ontario .....	12	3,391	6,886,361	345,035	8,942,114	22,144,945
Manitoba .....	2)					
Alberta .....	1)	1,325	2,918,815	146,384	3,788,241	10,688,908
British Columbia .....	2)					
Canada .....	23	7,057	15,087,130	806,164	18,908,255	46,435,278
<u>1946</u>						
Quebec .....	8	2,297	5,071,620	285,705	5,369,561	11,192,319
Ontario .....	12	2,680	5,347,453	258,184	6,929,755	16,078,706
Manitoba .....	2)					
Alberta .....	1)	1,114	2,406,317	95,614	6,597,118	12,851,670
British Columbia .....	2)					
Canada .....	25	6,091	12,825,390	639,503	18,896,434	40,122,695

Table 3 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1945 and 1946

Province	Average Number of Employees					Salaries	Wages	Total Salaries and Wages
	On Salaries		On Wages		Total			
	Male	Female	Male	Female				

Table 4 - WAGE-EARNERS, BY MONTHS, 1945 and 1946 (ON THE LAST WORK-DAY OF EACH MONTH)

Month	1945			1946		
	Male	Female	Total	Male	Female	Total
January .....	6,674	332	7,006	4,473	52	4,525
February .....	6,536	304	6,840	4,409	51	4,460
March .....	6,391	281	6,672	4,384	48	4,432
April .....	6,080	262	6,342	4,481	49	4,530
May .....	5,598	97	5,695	4,732	48	4,780
June .....	5,489	90	5,579	4,812	53	4,865
July .....	5,428	77	5,505	4,845	52	4,897
August .....	5,322	67	5,389	4,966	51	5,017
September .....	4,776	41	4,817	4,843	51	4,894
October .....	4,597	38	4,635	4,937	50	4,987
November .....	4,428	35	4,523	4,894	49	4,943
December .....	4,247	32	4,279	4,880	47	4,927
Average ....	5,470	139	5,609	4,724	51	4,775

Table 5- FUEL AND ELECTRICITY USED, 1945 and 1946

Kind	Unit of measure	1945		1946	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Bituminous coal - Canadian	ton	14,364	129,476	12,332	112,199
Imported	ton	8,102	64,556	5,238	37,506
Sub-bituminous coal .....	ton	24	313	...	...
Anthracite coal - Imported	ton	133	2,012	1,705	16,967
Coke .....	ton	544	5,684	596	6,537
Gasoline .....	Imp.gal.	213,961	59,392	297,277	85,388
Kerosene .....	Imp.gal.	4,778	975	1,489	297
Fuel oil .....	Imp.gal.	1,763,012	157,083	1,148,206	99,197
Wood .....	cord	5	72	...	...
Gas - Manufactured .....	M cu.ft.	13,674	11,355	11,583	11,140
Natural .....	M cu.ft.	71,063	68,176	27,263	21,413
Electricity purchased ....	K. W. H.	28,102,986	304,420	19,897,093	247,510
Other fuel .....	...	...	2,650	...	1,349
Total .....	...	...	806,164	...	639,503

Table 6 - POWER EQUIPMENT, 1945 and 1946

	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total rated horse power	Number of units	Total rated horse power
<u>1945</u>				
Steam engines and turbines .....	13	561	6	97
Gasoline, gas and oil engines .....	45	1,774	...	...
Total Primary Equipment .....	58	2,335	6	97
Electric motors run by purchased power .....	2,510	30,899	210	2,773
Total .....	2,568	33,234	216	2,870
Stationary power boilers .....	43	3,419	28	1,363
Motor-generator sets .....	33	3,370	1	750
<u>1946</u>				
Steam engines and turbines .....	14	606	4	102
Gasoline, gas and oil engines .....	51	2,062	...	...
Total Primary Equipment .....	65	2,668	4	102
Electric motors run by purchased power .....	2,470	31,067	247	2,878
Total .....	2,535	33,735	251	2,980
Stationary power boilers .....	41	3,119	13	826
Motor-generator sets .....	33	3,195	1	750

Table 7 - MATERIALS PURCHASED AND USED, AND INVENTORIES AT END OF 1946

Material	Unit of measure	Stocks on hand January 1, 1946	Purchases 1946	Stocks on hand Dec. 31, 1946	Total Materials Used 1946
<u>Structural Steel -</u>					
Shapes, including channels, beams, columns, angles, joists, tees and zees .....	ton	41,319	121,246	43,670	118,895
	\$	2,578,044	7,991,623	3,983,002	7,586,665
Plates and sheets .....	ton	21,119	74,613	23,030	72,702
	\$	1,320,938	4,841,292	1,533,227	4,629,003
Miscellaneous, including bars, billets, slabs, rounds, squares and sheet piling ...	ton	10,930	37,049	11,329	36,650
	\$	771,693	2,646,713	840,316	2,578,090



# Bridge Building

- 4 -

Table 7 - MATERIALS PURCHASED AND USED, AND INVENTORIES AT END OF 1946 (con.)

## Other Materials -

	Quantity	Cost at Works \$
Electrical apparatus and supplies .....	...	160,348
Other complete parts purchased (such as engines, boilers, instruments, castings, etc.).....	...	801,222
Lumber ..... M bd. ft.	1,294	87,375
Other miscellaneous stores .....	...	3,053,731
Total Materials and supplies	xx	18,896,434

Table 8 - PRODUCTS MADE, 1945 and 1946

Product	1 9 4 5	Selling value at works	1 9 4 6	Selling value at works
	Quantity tons		Quantity tons	
Structural work - Buildings .....	69,620	13,086,937	92,493	16,109,054
Bridges .....	3,116	682,801	6,437	1,206,307
Transmission towers ....	4,121	660,009	11,477	2,062,852
All other .....	6,983	1,481,896	19,817	2,777,579
Plate and tank work, including tanks, hoppers, digesters, etc. ....	...	1,074,482	...	1,859,671
Mechanical work, including cranes, trolleys, etc. ....	...	1,848,766	...	1,103,353
Sales of plain material .....	67,617	6,507,145	...	8,234,375
Custom work and repairs .....	...	269,358	...	202,609
Other products (x) .....	...	20,823,884	...	6,566,895
Total Products .....	...	46,435,278	...	40,122,695

(x) Includes munitions, sections for ships, etc.

## LIST OF FIRMS IN THE BRIDGE AND STRUCTURAL STEEL WORK INDUSTRY, 1946

Name of Firm	Location of Plant
<u>Quebec -</u>	
Dominion Structural Steel Limited	6898 Clanranald Ave., Montreal
Dominion Bridge Co. Ltd.	Lachine
MacKinnon Structural Steel Company Limited	Sherbrooke
Eastern Canada Steel & Iron Works Limited	Lesage Ave., Quebec
Lord & Company Ltd.	4700 Iberville St., Montreal
Canadian Structural Steel Works Co. Ltd.	4600 - 17th Ave., Rosemount (Montreal)
Standard Structural Steel Ltd.	6333 St. Lawrence, Montreal
Steel Constructors Limited	2075 Haig Ave., Montreal
<u>Ontario -</u>	
The Canadian Bridge Company Limited	1218 Walker Road, Walkerville
Hamilton Bridge Company Limited	Caroline St. N. & Depew St., Hamilton
Sault Structural Steel Company Limited	Wilde St., Sault Ste. Marie
Sarnia Bridge Co. Limited	251 Campbell St., Sarnia
Dominion Bridge Company Limited	1139 Shaw St., Toronto
Dominion Bridge Company Limited	McKay St., Eastview
Disher Steel Construction Co. Limited	80 Commissioners St., Toronto
Standard Steel Construction Co.	Port Robinson
Central Bridge Company Limited	300 West St., Trenton
T.J. Eansor & Sons Limited	300 Pitt St. E., Windsor
London Steel Construction Co. Limited	48 Burslem St., London
Standard Iron & Steel Works	3402 Dundas St. W., Toronto

## LIST OF FIRMS IN THE BRIDGE AND STRUCTURAL STEEL WORK INDUSTRY, 1946 (con.)

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Name of Firm	Location of Plant
<u>Manitoba -</u>	
Dominion Bridge Company, Limited	Dublin Ave., Winnipeg
Winnipeg Bridge Company Limited	153 Aubert St., St. Boniface
<u>Alberta -</u>	
Dominion Bridge Company Limited	803 - 24th Ave. S.E., Calgary
<u>British Columbia -</u>	
Dominion Bridge Co. Ltd.	275 West First Ave., Vancouver
Western Bridge and Steel Fabricators Ltd.	195 W. 1st Ave., Vancouver

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