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# Annual Industry Report

# Iron and Steel and Their Products Group

## THE BRIDGE BUILDING AND STRUCTURAL STEEL WORK INDUSTRY, 1945.

The value of work done by concerns in the Bridge Building and Structural Steel Work Industry amounted to \$46,435,278 in 1945 compared with \$58,409,746 in the previous year.

This industry includes all concerns which were occupied chiefly in fabricating or erecting steel for bridges, buildings, etc., and in 1945 covered the operations of 23 plants, of which 12 were located in Ontario, 6 in Quebec, 2 in British Columbia, 2 in Manitoba and 1 in Alberta.

These firms afforded employment to a monthly average of 7,057 people who were paid \$15,087,130 in salaries and wages. Fuel and electricity cost \$806,164 and expenditures for materials for use in manufacturing amounted to \$18,908,255.

The principal products were: 3,116 tons of bridges at \$682,801; 80,724 tons of other structural work, such as buildings, transmission towers, etc., at \$15,228,842; plate and tank work at \$1,074,482 and mechanical work, including cranes, trolleys, etc., at \$1,848,766. Sales of plain material were reported at 67,617 tons worth \$6,507,145.

Table 1 - Principal Statistics of the Bridge Building and Structural Steel Work Industry, 1935-1945

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Year	Number of plants	Average number of em- ployees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross sell- ing value of products at works
			\$	\$	\$	\$
1935 .....	18	2,056	2,742,956	181,024	3,901,609	7,597,599
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	20,861,731	58,255,506
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
Per cent change, 1945 from 1944 .....						
		-19.7	-22.3	-8.2	-21.0	-20.5

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, 1944 and 1945

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>1944</u>						
Quebec .....	5	2,605	5,962,065	356,495	9,937,483	15,931,079
Ontario .....	12	4,130	9,162,799	352,448	9,776,611	30,521,083
Manitoba .....	2)					
Alberta .....	1)	2,049	4,285,041	189,697	4,222,213	11,957,584
British Columbia .....	2)					
Canada .....	22	8,784	19,409,905	878,640	23,936,307	58,409,746
<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	345,055	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

Table 3 - Employees, Salaries and Wages, By Provinces, 1944 and 1945

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Province	Average Number of Employees					Salaries \$	Wages \$	Total Salaries and Wages \$
	On Salaries		On Wages		Total			
	Male	Female	Male	Female				
<u>1944</u>								
Quebec .....	301	118	2,146	40	2,605	1,417,987	4,544,078	5,962,065
Ontario .....	412	178	3,247	293	4,130	1,428,473	7,734,326	9,162,799
Other provinces .....	148	58	1,830	13	2,049	584,402	3,700,639	4,285,041
Canada .....	861	354	7,223	346	8,784	3,430,862	15,979,043	19,409,905
<u>1945</u>								
Quebec .....	422	114	1,782	23	2,341	1,495,955	3,785,999	5,281,954
Ontario .....	512	190	2,583	106	3,391	1,414,028	5,472,333	6,886,361
Other provinces .....	154	56	1,105	10	1,325	607,771	2,311,044	2,918,815
Canada .....	1,088	360	5,470	139	7,057	3,517,754	11,569,376	15,087,130

Table 4 - Wage-earners, By Months, 1944 and 1945 (On the last work-day of each month)

Month	1944			1945		
	Male	Female	Total	Male	Female	Total
January .....	7,566	390	7,956	6,674	332	7,006
February .....	7,701	376	8,077	6,536	304	6,840
March .....	7,557	373	7,930	6,391	281	6,672
April .....	7,386	377	7,763	6,080	262	6,342
May .....	7,245	328	7,673	5,598	97	5,695
June .....	7,409	331	7,740	5,489	90	5,579
July .....	7,339	321	7,660	5,428	77	5,505
August .....	7,005	323	7,328	5,322	67	5,389
September .....	6,956	335	7,291	4,776	41	4,817
October .....	6,963	325	7,288	4,597	38	4,635
November .....	6,841	336	7,177	4,488	35	4,523
December .....	6,587	330	6,917	4,247	32	4,279
Average .....	7,223	346	7,569	5,470	139	5,609

Table 5 - Hours Worked Per Week By Wage-earners, 1944 and 1945 (In one week of month of highest employment)

Hours Worked per Week	1 9 4 4			1 9 4 5		
	Male	Female	Total	Male	Female	Total
	(Number)					
Under 30 hours .....	599	23	622	360	9	369
31-43 hours .....	792	28	820	712	11	723
44 hours .....	1,290	33	1,323	1,078	25	1,103
45-47 hours .....	1,145	19	1,164	1,052	21	1,073
48 hours .....	317	3	320	317	16	333
49-50 hours .....	2,347	289	2,636	1,570	213	1,783
51-54 hours .....	675	10	685	746	6	752
55 hours .....	112	1	113	218	1	219
56-64 hours .....	808	4	812	853	2	855
65 hours and over .....	124	...	124	164	...	164
Total .....	8,209	410	8,619	7,070	304	7,374
Total wages paid in selected week ..... \$	334,369	11,786	346,155	291,474	8,766	300,240

Table 6 - Fuel and Electricity Used, 1944 and 1945

Kind	Unit of measure	1 9 4 4		1 9 4 5	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Bituminous coal - Canadian	ton	14,793	129,607	14,364	129,476
Imported	ton	8,020	62,591	8,102	64,556
Sub-bituminous coal .....	ton	...	...	24	313
Anthracite coal - Imported	ton	125	1,895	133	2,012
Coke .....	ton	940	10,225	544	5,684
Gasoline .....	Imp.gal.	176,179	48,840	213,961	59,392
Kerosene .....	Imp.gal.	1,380	270	4,773	975
Fuel oil .....	Imp.gal.	2,358,310	203,523	1,763,012	157,083
Wood .....	cord	17	247	5	72
Gas - Manufactured .....	M cu.ft.	26,652	20,537	13,674	11,355
Natural .....	M cu.ft.	58,171	58,139	71,063	68,176
Electricity purchased ....	K. W. H.	35,114,867	342,766	28,102,986	304,420
Other fuel .....	...	...	...	...	2,650
Total .....	...	...	878,640	...	806,164

Table 7 - Power Equipment, 1944 and 1945

	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total rated horse power	Number of units	Total rated horse power
1 9 4 4				
Steam engines and turbines .....	17	741	5	102
Gasoline, gas and oil engines .....	41	1,674	1	35
Total Primary Equipment .....	58	2,415	6	137
Electric motors run by purchased power ....	2,566	32,798	150	2,035
Total .....	2,624	35,213	156	2,172
Stationary power boilers .....	41	5,119	22	1,237
Motor-generator sets .....	30	3,310	4	1,000
1 9 4 5				
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	26	1,363
Motor-generator sets .....	33	3,370	1	750



Table 8 - Materials Purchased and Used, and Inventories at End of 1945

Material	Unit of measure	Stocks on hand January 1, 1945	Purchases 1945	Stocks on hand Dec. 31, 1945	Total Materials Used 1945
<b>Structural Steel -</b>					
Shapes, including channels, beams, columns, angles, joists, tees and zeos .....	ton	28,250	94,436	36,560	86,126
	\$	1,700,286	5,605,122	2,247,331	5,058,077
Plates and sheets .....	ton	21,809	70,231	21,487	70,553
	\$	1,350,117	4,197,878	1,346,265	4,201,730
Miscellaneous, including bars, billets, slabs, rounds, squares and sheet piling ....	ton	12,548	32,133	13,087	31,594
	\$	825,689	2,371,996	1,016,962	2,180,723

Table 9 - Other Materials Used During the Year, 1945

	Quantity	Cost at Works \$
Electrical apparatus and supplies .....	...	200,550
Other complete parts purchased (such as engines, boilers, instruments, castings, etc.) .....	...	1,155,978
Lumber ..... M bd. ft.	1,846	103,589
Other miscellaneous stores .....	...	6,007,608
<b>Total Materials .....</b>	<b>...</b>	<b>18,908,255</b>

Table 10 - Products Made, 1944 and 1945

Product	1 9 4 4		1 9 4 5	
	Quantity	Selling value at works	Quantity	Selling value at works
	tons	\$	tons	\$
Bridges .....	2,407	646,477	3,116	682,801
Structural work (buildings, trans- mission towers, etc.) .....	49,670	13,548,622	80,724	15,228,842
Plate and tank work, including tanks, hoppers, digesters, etc. ....	...	1,684,235	...	1,074,482
Mechanical work, including cranes, trolleys, etc. ....	...	1,731,104	...	1,848,766
Sales of plain material .....	55,707	5,608,525	67,617	6,507,145
Custom work and repairs .....	...	557,222	...	269,358
Other products (x) .....	...	35,633,561	...	20,823,884
<b>Total .....</b>	<b>...</b>	<b>58,409,746</b>	<b>...</b>	<b>46,435,278</b>

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

## List of Firms in the Bridge and Structural Steel Work Industry, 1945

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Name of Firm	Location of Plant
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<u>Quebec -</u>	
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
<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
<u>Manitoba -</u>	
Dominion Bridge Company, Limited	Dublin Ave., Winnipeg
Winnipeg Bridge Company Ltd.	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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