

DEPARTMENT OF TRADE AND COMMERCE  
DOMINION BUREAU OF STATISTICS  
CENSUS OF INDUSTRY  
MINING, METALLURGICAL AND CHEMICAL BRANCH  
OTTAWA - CANADA

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Annual Industry ReportIron and Steel and Their Products GroupTHE BRIDGE BUILDING AND STRUCTURAL STEEL WORK INDUSTRY, 1944

The value of work done by concerns in the Bridge Building and Structural Steel Work Industry amounted to \$58,409,746 in 1944 compared with \$72,515,834 in the previous year.

This industry includes all concerns which were occupied chiefly in fabricating or erecting steel for bridges, buildings, etc., and in 1944 covered the operations of 22 plants, of which 12 were located in Ontario, 5 in Quebec, 2 in British Columbia, 2 in Manitoba and 1 in Alberta.

These firms afforded employment to a monthly average of 8,784 people who were paid \$19,409,905 in salaries and wages. Fuel and electricity cost \$878,640, and expenditures for materials for use in manufacturing amounted to \$23,936,307.

Munitions, parts for ships and other special war contracts accounted for about half of the output in 1944. Apart from this work the principal products were: 2,407 tons of bridges at \$646,477; 49,670 tons of other structural work, such as buildings, transmission towers, etc., at \$13,548,622; plate and tank work at \$684,235, and mechanical work, including cranes, trolleys, etc., at \$1,731,104. Sales of plain material were reported at 55,707 tons worth \$5,608,525.

Table 1 - PRINCIPAL STATISTICS OF THE BRIDGE BUILDING AND STRUCTURAL STEEL WORK INDUSTRY, 1934-1944

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
			\$	\$	\$	\$
1934 .....	18	1,659	2,089,552	170,764	2,765,535	4,700,143
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	58,355,506
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
Per cent change, 1944 from 1943 ..	..	-20.7	-16.2	-12.6	-0.3	-19.4

For FOOTNOTE, see Page 2.

## Footnote to Table 1

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, 1943 and 1944

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>1943</u>						
Quebec .....	5	3,746	7,955,749	445,432	10,732,624	23,706,805
Ontario .....	12	4,622	9,841,267	352,245	7,884,755	31,071,257
Manitoba .....	2)					
Alberta .....	1)	2,606	5,478,856	207,840	5,397,273	17,737,772
British Columbia	2)					
CANADA .....	22	10,974	23,175,872	1,005,517	24,014,652	72,515,834
<u>1944</u>						
Quebec .....	5	2,605	5,962,065	336,495	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

Table 3 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1943 and 1944

Province	Average Number of Employees					Salaries	Wages	TOTAL SALARIES and WAGES
	On Salaries		On Wages		TOTAL			
	Male	Female	Male	Female				
						\$	\$	\$
<u>1943</u>								
Quebec ...	306	124	3,172	144	3,746	1,465,414	6,490,335	7,955,749
Ontario ..	426	181	3,735	280	4,622	1,437,743	8,403,524	9,841,267
Other provinces	148	64	2,321	73	2,606	576,194	4,802,662	5,378,856
CANADA ..	880	369	9,228	497	10,974	3,479,351	19,696,521	23,175,872
<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



Table 4 - WAGE-EARNERS, BY MONTHS, 1943 and 1944 (On the last work-day of each month)

Month	In Plant		On Erection	TOTAL
	Male	Female	Male	
<u>1 9 4 3</u>				
January .....	8,867	350	904	10,121
February .....	8,956	371	881	10,208
March .....	8,950	391	884	10,225
April .....	8,898	417	863	10,184
May .....	8,370	414	793	9,577
June .....	8,422	574	829	9,825
July .....	8,702	654	806	10,162
August .....	8,837	623	777	10,237
September .....	8,570	616	843	10,029
October .....	7,963	568	717	9,248
November .....	7,509	510	639	8,658
December .....	7,121	467	625	8,213
AVERAGE .....	8,431	496	798	9,725
<u>1 9 4 4</u>				
January .....	6,806	390	760	7,956
February .....	6,985	376	716	8,077
March .....	6,839	373	718	7,930
April .....	6,765	377	621	7,763
May .....	6,801	328	544	7,673
June .....	6,893	331	516	7,740
July .....	6,775	321	564	7,660
August .....	6,425	323	580	7,328
September .....	6,374	335	582	7,291
October .....	6,320	325	643	7,288
November .....	6,171	336	670	7,177
December .....	6,009	330	578	6,917
AVERAGE .....	6,597	346	626	7,569

Table 5 - HOURS WORKED PER WEEK BY WAGE-EARNERS, 1943 and 1944 (In one week of month of highest employment)

Hours Worked per Week	1 9 4 3			1 9 4 4		
	Male	Female	TOTAL	Male	Female	TOTAL
	(Number)					
Under 30 hours .....	690	52	742	599	23	622
31-43 hours .....	653	137	790	792	28	820
44 hours .....	415	22	437	1,290	33	1,323
45-47 hours .....	577	79	656	1,145	19	1,164
48 hours .....	593	15	608	317	3	320
49-50 hours .....	2,410	387	2,797	2,347	289	2,636
51-54 hours .....	1,520	32	1,552	675	10	685
55 hours .....	195	2	197	112	1	113
56-64 hours .....	2,070	1	2,071	808	4	812
65 hours and over ....	1,150	...	1,150	124	...	124
TOTAL .....	10,273	727	11,000	8,209	410	8,619
Total wages paid in selected week ..... \$	399,098	15,986	415,084	334,369	11,786	346,155

Table 6 - FUEL AND ELECTRICITY USED, 1943 and 1944

Kind	Unit of measure	1 9 4 3	Cost at	1 9 4 4	Cost at
		Quantity	works	Quantity	works
			\$		\$
Bituminous coal--Canadian	ton	20,328	170,887	14,793	129,607
Imported	ton	2,529	24,843	8,020	62,591
Anthracite coal--Imported	ton	2,689	24,355	125	1,895
Coke .....	ton	1,232	13,694	940	10,225
Gasoline .....	Imp.gal.	202,058	54,572	176,179	48,840
Kerosene .....	Imp.gal.	2,234	454	1,380	270
Fuel oil .....	Imp.gal.	3,433,937	297,124	2,358,310	203,523
Wood .....	cord	23	327	17	247
Gas--Manufactured .....	M cu.ft.	33,875	24,778	26,652	20,537
Natural .....	M cu.ft.	52,091	51,959	58,171	58,139
Electricity purchased ...	K. W. H.	36,653,762	342,524	35,114,867	342,766
Other fuel .....	...	...	...	...	...
TOTAL .....	...	...	1,005,517	...	878,640

Table 7 - POWER EQUIPMENT, 1943 and 1944

	Ordinarily in Use		In Reserve of Idle	
	Number of units	Total rated horse power	Number of units	Total rated horse power
	1 9 4 3			
Steam engines and turbines .....	17	741	2	40
Gasoline, gas and oil engines...	41	1,920	4	110
Total Primary Equipment ...	58	2,661	6	150
Electric motors run by purchased power .....	2,552	32,519	166	2,341
TOTAL .....	2,610	35,180	172	2,491
Stationary boilers .....	41	3,119	28	1,363
Motor-generator sets .....	43	3,334	1	750
	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	3,119	22	1,237
Motor-generator sets .....	30	3,310	4	1,000

Table 8 - MATERIALS PURCHASED AND USED, AND INVENTORIES AT END OF 1944

Material	Unit of measure	Stocks on hand January 1 1944	Purchases 1944	Stocks on hand Dec. 31, 1944	TOTAL MATERIALS USED 1944

Structural Steel -

Shapes, including channels, beams, columns, angles, joists, tees and zees .....	ton	32,692	79,883	26,723	85,852
Plates and sheets .....	\$	2,017,055	4,848,677	1,671,053	5,194,679
	ton	28,003	100,679	18,540	110,160
	\$	1,759,453	6,096,761	1,152,312	6,703,902
Miscellaneous, including bars, billets, slabs, rounds, squares and sheet piling ..	ton	13,595	29,854	10,214	33,235
	\$	863,360	1,948,265	685,653	2,125,972



Table 9 - OTHER MATERIALS USED DURING THE YEAR, 1944

	Quantity	Cost at Works
		\$
Electrical apparatus and supplies	...	354,192
Other complete parts purchased (such as engines, boilers, instruments, castings, etc.) ...	...	2,864,932
Lumber ..... M bd.ft.	2,166	120,396
Other miscellaneous stores .....	...	6,572,234
TOTAL MATERIALS .....	...	23,936,307

Table 10 - PRODUCTS MADE, 1943 and 1944

Product	1	9	4	3	1	9	4	4
	Quantity		Selling	value at	Quantity		Selling	value at
			works				works	
	tons		\$		tons		\$	
Bridges .....	1,832		330,402		2,407		646,477	
Structural work (buildings, trans- mission towers, etc.) .....	95,599		16,061,948		49,670		13,548,622	
Plate and tank work, including tanks, hoppers, digesters, etc.	...		15,812,030		...		1,684,235	
Mechanical work, including cranes, trolleys, etc. ....	...		3,818,832		...		1,731,104	
Sales of plain material .....	55,698		5,534,332		55,707		5,608,525	
Custom work and repairs .....	...		363,591		...		557,222	
Other products (x) .....	...		30,594,699		...		35,633,561	
TOTAL .....	...		72,515,834		...		58,409,746	

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

## LIST OF FIRMS IN THE BRIDGE AND STRUCTURAL STEEL WORK INDUSTRY, 1944

Name of Firm	Location of Plant
<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)
<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

LIST OF FIRMS IN THE BRIDGE AND STRUCTURAL STEEL WORK INDUSTRY, 1944  
(Concluded)

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Name of Firm	Location of Plant
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<u>Ontario (Con.) -</u>	
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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