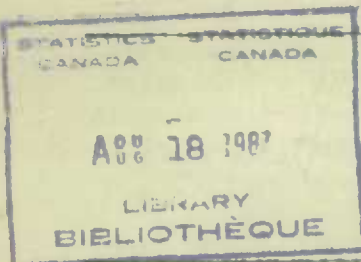


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CENSUS OF INDUSTRY
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OTTAWA - CANADA

Dominion Statistician: R. H. Coats, LL.D., F.R.S.C., F.S.S. (Hon.)
Chief - Mining, Metallurgical and Chemical Branch: W. H. Losee, B.Sc.
Statistician - Metal and Chemical Products: H. McLeod, B.Sc.

ANNUAL INDUSTRY REPORT

IRON AND STEEL AND THEIR PRODUCTS GROUP

THE BRIDGE BUILDING AND STRUCTURAL STEEL WORK INDUSTRY, 1939

The value of work done by concerns in the Bridge Building and Structural Steel Work Industry amounted to \$15,840,592 in 1939 compared with \$14,817,901 in the previous year.

This industry includes all concerns which were occupied chiefly in fabricating or erecting steel for bridges, buildings, etc., and in 1939 covered the operations of 21 plants of which 11 were located in Ontario, 5 in Quebec, 2 in British Columbia, 2 in Manitoba and 1 in Alberta.

These firms had a capital investment in Canada in land, buildings, machinery, supplies, etc., of \$19,246,277 and afforded employment to a monthly average of 2,949 people who received \$4,546,648 in salaries and wages. Their fuel and electricity cost \$232,377 and expenditures for materials to be used in manufacturing were \$6,786,893.

Principal products in 1939 included - 3,783 tons of bridges at \$839,412; 60,512 tons of other structural work, such as, buildings, transmission towers, etc., at \$7,826,660; 7,843 tons of plate and tank work at \$984,023; and mechanical work, including cranes, trolleys, etc., at \$1,212,762. Sales of plain material were reported at 32,394 tons worth \$2,731,254.

Value of work in process on December 31, 1939 was \$2,065,763, the comparative figure at the end of 1938 being reported at \$2,654,118.

Table 1 -- PRINCIPAL STATISTICS OF THE BRIDGE BUILDING AND STRUCTURAL STEEL WORK INDUSTRY, 1930 - 1939

Year	No. of plants	Capital employed	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
		\$		\$	\$	\$	\$
1930	13	28,922,951	4,943	8,686,062	336,392	12,549,435	26,065,783
1931	21	27,469,351	4,421	7,143,544	333,983	9,132,721	22,170,215
1932	18	24,872,219	2,193	3,635,213	240,236	4,109,142	7,385,013
1933	18	22,905,185	1,433	2,002,483	155,721	1,806,451	5,616,430
1934	18	19,947,521	1,659	2,089,552	170,764	2,765,535	4,700,143
1935	18	18,935,273	2,056	2,742,956	181,024	3,901,609	7,597,599
1936	18	19,672,350	2,567	3,686,714	206,549	5,355,196	11,913,918
1937	19	21,200,308	3,418	5,004,456	247,801	8,657,728	16,850,324
1938	21	20,425,317	3,245	5,097,158	252,789	8,006,023	14,817,901
1939	21	19,246,277	2,949	4,546,648	232,377	6,786,893	15,840,592
Per cent change							
1939 from 1938 ..		5.7	9.1	10.7	8.0	15.2	6.1

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, 1938 and 1939

Province	No. of plants	Capital employed	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>1938</u>							
Quebec	5	6,303,304	1,058	1,814,356	99,492	1,992,352	4,025,691
Ontario	11	9,706,373	1,579	2,280,631	109,687	3,621,756	7,420,429
Manitoba	2)						
Alberta	1)	4,415,640	608	1,002,171	43,610	2,391,915	3,371,781
British Columbia	2)						
CANADA	21	20,425,317	3,245	5,097,158	252,789	8,006,023	14,817,901
<u>1939</u>							
Quebec	5	6,548,904	1,087	1,758,670	93,240	2,042,188	5,033,961
Ontario	11	8,787,791	1,452	2,112,084	103,792	3,494,660	7,679,321
Manitoba	2)						
Alberta	1)	3,909,582	410	675,894	35,345	1,250,045	3,127,310
British Columbia	2)						
CANADA	21	19,246,277	2,949	4,546,648	232,377	6,786,893	15,840,592

Table 3 - CAPITAL EMPLOYED, BY PROVINCES, 1938 and 1939

Province	Present value of land, buildings, fixtures, machin- ery, tools and other equipment	Inventory value of materials and finished products on hand, and stocks in process	Operating capital (cash, bills and accounts re- ceivable, etc.)	TOTAL CAPITAL EMPLOYED
	\$	\$	\$	\$
1938				
Quebec	2,970,648	1,895,916	1,436,740	6,303,304
Ontario	5,956,735	2,216,842	1,532,796	9,706,373
Other provinces	2,904,043	956,840	554,757	4,415,640
CANADA	11,831,426	5,069,598	3,524,293	20,425,317
1939				
Quebec	2,665,689	2,113,584	1,769,631	6,548,904
Ontario	4,401,239	2,271,495	2,115,007	8,787,791
Other provinces	2,856,280	830,506	222,256	3,909,582
CANADA	9,923,798	5,215,585	4,106,894	19,246,277

Table 4 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1938 and 1939

Province	Average number of employees					Salaries	Wages	TOTAL SALARIES and WAGES
	On salaries		On wages		TOTAL			
	Male	Female	Male	Female				
						\$	\$	\$
<u>1938</u>								
Quebec	300	39	719	...	1,058	826,422	987,934	1,814,356
Ontario	306	34	1,239	...	1,579	769,143	1,511,488	2,280,631
Other provinces	130	14	464	...	608	299,735	702,436	1,002,171
CANADA	736	87	2,422	...	3,245	1,895,300	3,201,858	5,097,158
<u>1939</u>								
Quebec	306	47	734	...	1,087	823,013	935,657	1,758,670
Ontario	310	40	1,102	...	1,452	737,192	1,374,892	2,112,084
Other provinces	128	15	267	...	410	297,678	378,216	675,894
CANADA	744	102	2,103	...	2,949	1,857,883	2,688,765	4,546,648

Table 5 - WAGE-EARNERS, BY MONTHS, 1938 and 1939 (On the last work-day of each month)

Month	1938			1939		
	In shops	On erection	Total	In shops	On erection	Total
January	2,138	589	2,727	1,418	391	1,809
February	2,174	588	2,762	1,370	401	1,771
March	2,039	571	2,610	1,319	367	1,686
April	1,851	584	2,435	1,376	365	1,741
May	1,822	637	2,459	1,509	385	1,894
June	1,745	618	2,363	1,666	421	2,087
July	1,819	657	2,476	1,789	464	2,253
August	1,919	658	2,577	1,863	483	2,346
September	1,792	722	2,514	1,806	601	2,407
October	1,561	602	2,163	2,009	705	2,714
November	1,543	489	2,032	1,860	509	2,369
December	1,529	402	1,931	1,745	437	2,182
AVERAGE	1,829	593	2,422	1,644	459	2,103

Table 6 - HOURS WORKED PER WEEK BY WAGE-EARNERS, 1939 (In one week of normal employment; overtime not included)

Regular hours worked per week	Number of wage- earners	Per cent of total	Regular hours worked per week	Number of wage- earners	Per cent of total
Under 30 hours	7	0.3	49 to 50 hours ..	639	26.2
31 - 43 hours	209	8.6	51 - 54 hours ...	14	0.7
44 hours	661	27.1	55 hours	74	2.7
45 - 47 hours	349	14.3	56 - 64 hours ...	65	2.7
48 hours	418	17.1	65 hours and over	6	0.3
			Total	2,442	100.0
			Total wages paid in selected week		\$ 67,395

Table 7 - FUEL AND ELECTRICITY USED, 1938 and 1939

Kind	Unit of measure	1 9 3 8		1 9 3 9	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Bituminous coal - Canadian	short ton	6,075	41,558	6,443	41,461
Imported	short ton	2,451	16,656	977	6,518
Anthracite coal - Imported	short ton	88	1,228	100	1,149
Coke	short ton	459	4,329	645	5,740
Gasoline	Imp.gal.	109,101	24,290	65,985	15,146
Kerosene	Imp.gal.	888	172	670	126
Fuel oil	Imp.gal.	334,784	26,762	287,816	23,192
Wood	cord	6	36	4	28
Gas - Manufactured	M cu. ft.	7,650	4,485	16,668	8,617
Natural	M cu. ft.	21,469	9,208	18,690	8,066
Electricity purchased	K. W. H.	15,590,063	123,670	9,283,358	122,193
Other fuel	\$...	395	...	141
TOTAL	\$...	252,789	...	232,377

Table 8 - POWER EQUIPMENT, 1938 and 1939

	Ordinarily in use		In reserve or idle	
	Number of units	Total rated horse-power	Number of units	Total rated horse-power
1 9 3 8				
Steam engines and turbines	12	310	2	45
Diesel engines	3	90	1	5
Gasoline, gas and oil engines	33	1,184	2	50
Total Primary Equipment	48	1,584	5	100
Electric motors run by purchased power	1,643	27,084	59	1,231
TOTAL	1,691	28,668	64	1,331
Electric motors run by above primary units	78	982	3	20
Stationary boilers	69	3,902	6	472

Table 8 -- POWER EQUIPMENT, 1938 and 1939 (Concluded)

	Ordinarily in use		In reserve or idle	
	Number of units	Total rated horse-power	Number of units	Total rated horse-power
<u>1 9 3 9</u>				
Steam engines and turbines	14	580	2	45
Diesel engines	1	40
Gasoline, gas and oil engines	37	1,723	4	125
Total Primary Equipment	52	2,343	6	170
Electric motors run by purchased power	1,785	25,569	166	2,616
TOTAL	1,837	27,912	172	2,786
Electric motors run by above primary units	110	3,302	3	80
Stationary boilers	16	1,054	23	1,209

Table 9 -- MATERIALS PURCHASED AND USED, AND INVENTORIES AT END OF 1939

TABLE 3. MATERIALS AVAILABLE FOR CONSTRUCTION AND USED, AND INVENTORIES AT END OF 1939					
Material	Unit of measure	Stocks on hand Jan. 1, 1939	Purchases 1939	Stocks on hand Dec. 31, 1939	TOTAL MATERIALS USED 1939
Structural steel -					
Shapes, including channels, beams, columns, angles, joists, tees and zeos ...	short ton	21,882	65,557	25,124	62,215
	\$	1,168,886	3,457,883	1,351,999	3,275,771
Plates and sheets	short ton	12,638	33,126	14,199	31,565
	\$	759,365	1,791,464	782,739	1,768,089
Miscellaneous - including bars, billets, slabs, rounds, squares and sheet piling					
	short ton	4,252	13,264	4,862	12,654
	\$	284,416	756,652	340,703	700,365
Other materials used during the year -					
Electrical apparatus and supplies	\$	1,775	56,806	2,360	56,221
Other complete parts purchased (such as engines, boilers, instruments, castings, etc.)	\$	16,070	134,526	16,699	133,897
Lumber	M ft. b.m.	106	621	211	516
	\$	5,796	22,353	9,713	18,436
Other miscellaneous stores	\$	315,941	852,081	333,908	834,114
TOTAL MATERIALS	\$	2,552,249	7,071,765	2,838,121	6,786,893

Table 10 - MATERIALS USED, 1938 and 1939

Material	1	9	3	8	1	9	3	9
	Quantity		Cost at		Quantity		Cost at	
	Tons		\$		Tons		\$	
Structural steel -								
Shapes, including channels, beams, columns, angles, joists, tees and zees	64,648		3,573,388		62,215		3,275,771	
Plates and sheets	36,855		2,160,783		31,565		1,768,089	
Miscellaneous - including bars, billets, slabs, rounds, squares and sheet piling	12,462		758,917		12,654		700,365	
Other materials -								
Electrical apparatus and supplies	...		126,305		...		56,221	
Other complete parts purchased, including engines, boilers, etc.	...		353,122		...		133,897	
Lumber M Ft.b.m.	1,063		37,487		516		18,436	
Other materials	...		996,021		...		834,114	
TOTAL	...		8,006,023		...		6,786,893	

Table 11 - PRODUCTS MADE, 1938 and 1939

Product	1	9	3	8	1	9	3	9
	Quantity		Selling value at		Quantity		Selling value at	
	Tons		\$		Tons		\$	
Bridges	15,676		2,972,035		3,783		839,412	
Structural work (buildings, transmission towers, etc.)	47,665		6,392,881		60,512		7,826,660	
Plate and tank work, including tanks, hoppers, digesters, etc.	6,151		1,059,605		...		2,183,279	
Mechanical work, including cranes, trolleys, etc.	3,282		865,476		...		1,212,762	
Sales of plain material	28,879		2,320,711		32,394		2,731,254	
Custom work and repairs	...		141,869		...		162,509	
Other products	...		1,065,324		...		884,716	
TOTAL	...		14,817,901		...		15,840,592	
Value of work in process at end of year	...		2,654,118		...		2,065,763	

DIRECTORY OF FIRMS IN THE BRIDGE BUILDING AND STRUCTURAL STEEL WORK INDUSTRY - 1939

Names of Firms

Location of Plants

Canadian Bridge Co., Ltd.	1219 Walker Road, Walkerville, Ont.
Canadian Structural Steel Works Co., Ltd.	4600 Seventeenth Ave., Rosemount, Montreal, Que.
Dominion Bridge Co., Ltd.	Lachine, Que.; McKay St., Eastview, Ont.; 1139 Shaw St., Toronto, Ont.; Dublin Ave., Winnipeg, Man.; 803-24th Ave. S.E., Calgary, Alta.; 275 - First Ave. W., Vancouver, B.C.
Disher Steel Construction Co., Ltd.	80 Commissioners St., Toronto 2, Ont.

DIRECTORY OF FIRMS IN THE BRIDGE BUILDING AND STRUCTURAL STEEL WORK INDUSTRY 1939
(Concluded)

<u>Names of Firms</u>	<u>Location of Plants</u>
Eansor, T. J., & Sons, Ltd.	300 Pitt St. E., Windsor, Ont.
Eastern Canada Steel & Iron Works Ltd.	Lesage Ave., Quebec, Que.
Hamilton Bridge Co. Ltd.	Depew St. and Caroline St. N., Hamilton, Ont.
Hamilton Bridge, Western, Ltd.	195 First Ave. W., Vancouver, B.C.
London Structural Steel Co. Ltd.	48 Burslem St., London, Ont.
Lord & Co. Ltd.	4700 Iberville St., Montreal, Que.
Mackinnon Steel Corp. Ltd.	Industrial St., Sherbrooke, Que.
Sarnia Bridge Co. Ltd.	251 Campbell St., Sarnia, Ont.
Sault Structural Steel Co. Ltd.	Sault Ste. Marie, Ont.
Standard Iron & Steel Works	3402 Dundas St. W., Toronto, Ont.
Standard Steel Construction Co. Ltd.	Port Robinson, Ont.
Winnipeg Bridge Co. Ltd.	153 Aubert St., St. Boniface, Man.

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