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THE BRIDGE BUILDING AND STRUCTURAL STEEL WORK INDUSTRY - 1947

The value of work done by concerns in the Bridge Building and Structural Steel Work Industry amounted to \$52,559,258 in 1947 compared with \$40,122,695 in the previous year.

This industry includes all concerns which were occupied chiefly in fabricating or erecting steel for bridges, buildings, etc., and in 1947 covered the operations of 26 plants, of which 13 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 7,178 workers who were paid \$16,132,591 in salaries and wages. Fuel and electricity cost \$724,861 and expenditures for materials for use in manufacturing amounted to \$22,160,375.

The principal products were: 8,098 tons of bridges at \$1,955,464; 146,663 tons of other structural work, such as buildings, transmission towers, etc., at \$29,520,402; plate and tank work at \$3,269,317, and mechanical work, including cranes, trolleys, etc., at \$1,467,089. Sales of plain material were worth \$7,895,886.

Table 1 - PRINCIPAL STATISTICS FOR THE BRIDGE BUILDING AND STRUCTURAL STEEL WORK INDUSTRY, 1937-1947

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
			\$	\$	\$	\$
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
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
1947	26	7,178	16,132,591	724,861	22,160,375	52,559,258
Per cent change						
1947 from 1946 ....	..	+17.8	+ 25.8	+13.3	+17.3	+ 31.0

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.

This report was prepared by J. J. Parchelo, Statistician, Metal and Chemical Products



Table 2 - PRINCIPAL STATISTICS, BY PROVINCES, 1946 and 1947

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>1 9 4 6</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
<u>1 9 4 7</u>						
Quebec	8	3,072	7,054,637	328,286	8,574,524	17,117,422
Ontario	13	2,990	6,690,835	293,224	8,512,537	22,197,113
Manitoba	2)					
Alberta	1)	1,116	2,387,119	103,351	5,073,314	13,244,723
British Columbia	2)					
CANADA	26	7,178	16,132,591	724,861	22,160,375	52,559,258

Table 3 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1946 and 1947

Province	Average Number of Employees					Salaries	Wages	Total Salaries and Wages
	On Salaries		On Wages		Total			
	Male	Female	Male	Female				
						\$	\$	\$
<u>1 9 4 6</u>								
Quebec	435	129	1,723	10	2,297	1,864,431	3,207,189	5,071,620
Ontario	424	108	2,112	36	2,680	1,463,912	3,883,541	5,347,753
Other provinces	176	44	889	5	1,114	624,167	1,782,150	2,406,317
CANADA ...	1,035	281	4,724	51	6,091	3,952,510	8,872,880	12,825,390
<u>1 9 4 7</u>								
Quebec	512	134	2,416	10	3,072	3,244,456	3,810,181	7,054,637
Ontario	473	117	2,386	14	2,990	1,764,355	4,926,480	6,690,835
Other provinces	237	60	816	3	1,116	825,418	1,561,701	2,387,119
CANADA ...	1,222	311	5,618	27	7,178	5,834,229	10,298,362	16,132,591

Table 4 - WAGE-EARNERS, BY MONTHS, 1946 and 1947 (On the last work-day of each month)

Month	1 9 4 6			1 9 4 7		
	Male	Female	Total	Male	Female	Total
January	4,473	52	4,525	5,022	25	5,047
February	4,409	51	4,460	5,052	25	5,077
March	4,384	48	4,432	5,239	28	5,267
April	4,481	49	4,530	5,358	27	5,385
May	4,732	48	4,780	5,440	26	5,466
June	4,812	53	4,865	5,656	26	5,682
July	4,845	52	4,897	5,974	26	6,000
August	4,966	51	5,017	5,813	24	5,837
September	4,843	51	4,894	5,714	26	5,740
October	4,937	50	4,987	5,926	29	5,955
November	4,894	49	4,943	6,210	28	6,238
December	4,880	47	4,927	6,016	26	6,042
AVERAGE ..	4,724	51	4,775	5,618	27	5,645

Table 5 - FUEL AND ELECTRICITY USED, 1946 and 1947

Kind	Unit of measure	1 9 4 6		1 9 4 7	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Bituminous coal - Canadian	ton	12,332	112,199	12,862	125,375
Imported	ton	5,238	37,506	3,263	35,584
Sub-bituminous coal	ton	...	...	...	...
Anthracite coal - Imported	ton	1,705	16,967	1,447	15,973
Coke	ton	596	6,537	592	8,239
Gasoline	Imp.gal.	297,277	85,388	336,805	104,843
Kerosene	Imp.gal.	1,489	297	2,368	511
Fuel oil	Imp.gal.	1,148,206	99,197	1,083,371	135,488
Wood	cord	...	...	7	126
Gas - Manufactured	M cu.ft.	11,583	11,140	24,250	16,403
Natural	M cu.ft.	27,263	21,413	22,506	11,210
Electricity purchased	K.W.H.	19,897,093	247,510	22,933,929	271,109
Other fuel .....	...	...	1,349	...	...
TOTAL .....	...	...	639,503	...	724,861

Table 6 - POWER EQUIPMENT, 1946 and 1947

	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total rated horse power	Number of units	Total rated horse power
<u>1 9 4 6</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
<u>1 9 4 7</u>				
Steam engines and turbines	5	181	3	77
Gasoline, gas and oil engines	55	2,517	...	...
Total Primary Equipment	60	2,698	3	77
Electric motors run by purchased power	3,065	41,974	203	2,567
TOTAL	3,125	44,672	206	2,644
Stationary power boilers	41	2,576	9	572
Motor-generator sets	22	1,730k.v.a.	...	...

Table 7 - MATERIALS PURCHASED AND USED, AND INVENTORIES AT END OF 1947

Material	Unit of measure	Stocks on hand January 1, 1947	Purchases 1947	Stocks on hand December 31, 1947	Total Materials Used 1947
<u>Structural Steel -</u>					
Shapes, including channels, beams, columns, angles, joists, tees and zees	ton	48,597	186,012	76,022	158,587
	\$	3,317,269	13,480,556	5,630,977	11,166,848
Plates and sheets	ton	23,833	63,773	25,459	62,147
	\$	1,579,308	4,703,085	1,884,282	4,398,111
Miscellaneous, including bars, billets, slabs, rounds, squares and sheet piling	ton	11,198	33,869	13,618	31,449
	\$	786,708	2,793,438	1,152,905	2,427,241

	Quantity	Cost at Works \$
<u>Other Materials -</u>		
Electrical apparatus and supplies	...	278,062
Other complete parts purchased (such as engines, boilers, instruments, castings, etc.)	1,347,791
Lumber M bd.ft.	1,183	96,901
Other miscellaneous stores	2,445,421
TOTAL MATERIALS AND SUPPLIES	...	22,160,375

Table 8 - PRODUCTS MADE, 1946 and 1947

Product	1 9 4 6		1 9 4 7	
	Quantity	Selling value at works	Quantity	Selling value at works
	tons	\$	tons	\$
Structural work - Buildings	92,493	16,109,054	115,116	22,350,008
Bridges	6,437	1,206,307	8,098	1,955,464
Transmission towers	11,477	2,062,852	14,368	3,156,606
All other	19,817	2,777,579	17,179	4,013,788
Plate and tank work, including tanks, hoppers, digesters, etc. ....	...	1,859,671	...	3,269,317
Mechanical work, including cranes, trolleys, etc. ....	...	1,103,353	...	1,467,089
Sales of plain material (channels, etc., unfabricated) .....	...	8,234,375	78,447	7,895,886
Custom work and repairs .....	...	202,609	...	2,079,990
Other products (x) .....	...	6,566,895	...	6,371,110
TOTAL PRODUCTS .....	...	40,122,695	...	52,559,258

(x) Includes munitions, sections for ships, miscellaneous machinery, boilers, etc.

LIST OF FIRMS IN THE BRIDGE AND STRUCTURAL STEEL WORK INDUSTRY - 1947

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
Leeds Bridge and Iron Works Limited	Mill St., Gananoque
<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.	145 W. 1st Ave., Vancouver

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