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ANNUAL INDUSTRY REPORT

IRON AND STEEL AND THEIR PRODUCTS GROUP

THE BRIDGE BUILDING AND STRUCTURAL STEEL WORK INDUSTRY, 1936.

Value of work done by concerns in the Bridge Building and Structural Steel Work Industry amounted to \$11,913,918 in 1936 compared with \$7,597,599 in the previous year, \$4,700,143 in 1934 and \$26,055,783 in 1930.

This industry includes all works chiefly engaged in fabricating and erecting steel for bridges, buildings, etc., and in 1936 covered the operations of 18 plants of which 9 were located in Ontario, 4 in Quebec, 2 in British Columbia, 2 in Manitoba and 1 in Alberta.

Capital employed in 1936 totalled \$19,672,350 against \$18,935,273 in 1935. Work was afforded to a monthly average of 2,567 people who received \$3,686,714 in salaries and wages while in the previous year 2,056 workers received \$2,742,956. Materials used in manufacturing in 1936 cost \$5,355,196 as against \$3,901,609 in the previous year and the cost of fuel and electricity was \$206,549 compared with \$181,024 in 1935.

Principal products during 1936 included bridges, 12,189 tons at \$2,274,429; structural work such as buildings, transmission towers etc., 46,450 tons at \$5,106,213; plate and tank work, 7,698 tons at \$992,283; mechanical work including cranes, trolleys, etc., 2,533 tons at \$558,456. Sales of plain material were reported at 20,521 tons at \$1,268,959.

The value of work in process on December 31, 1936, was \$1,030,805 the corresponding figure for a year ago being \$1,815,323.

Table 1 - PRINCIPAL STATISTICS OF THE BRIDGE BUILDING AND STRUCTURAL STEEL WORK INDUSTRY, 1930 - 1936.

Years	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	26,055,783
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

Table 2 - PRINCIPAL STATISTICS, BY PROVINCES, 1935 and 1936.

Years	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 \$
1935							
Quebec .....	4	4,708,838	708	1,991,755	76,461	953,841	2,028,152
Ontario .....	9	10,299,684	953	1,225,768	71,137	1,601,574	3,426,721
Manitoba .....	2)						
Alberta .....	1)	3,926,751	395	525,433	33,426	1,346,194	2,142,726
British Columbia	2)						
CANADA ...	18	18,935,273	2,056	2,742,956	181,024	3,901,609	7,597,599
1936							
Quebec .....	4	4,685,157	861	1,252,515	77,828	1,238,995	2,911,721
Ontario .....	9	10,963,918	1,206	1,716,330	85,914	2,741,944	5,041,367
Manitoba .....	2)						
Alberta .....	1)	4,023,275	500	717,869	42,807	1,374,257	3,960,830
British Columbia	2)						
CANADA ...	18	19,672,350	2,567	3,686,714	206,549	5,355,196	11,913,912

Table 3 - CAPITAL EMPLOYED, BY PROVINCES, 1935 and 1936.

Provinces	Present value of land, buildings, fixtures, machinery, tools and other equipment \$	Inventory value of materials and finished products on hand, and stocks in process \$	Operating capital (cash, bills and accounts receivable, etc.) \$	TOTAL CAPITAL EMPLOYED \$
1935				
Quebec .....	2,879,865	746,294	1,082,679	4,708,838
Ontario .....	6,422,416	954,791	2,922,477	10,299,684
Other provinces	2,978,046	565,634	383,071	3,926,751
CANADA ....	12,280,327	2,266,719	4,388,227	18,935,273
1936				
Quebec .....	2,961,080	979,111	744,966	4,685,157
Ontario .....	6,273,207	1,621,895	3,068,816	10,963,918
Other provinces	2,956,043	741,635	325,597	4,023,275
CANADA ....	12,190,330	3,342,641	4,139,379	19,672,350

Table 4 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1935 and 1936.

Provinces	AVERAGE NUMBER OF EMPLOYEES					Salaries \$	Wages \$	TOTAL SALARIES AND WAGES \$
	On salaries Male	On salaries Female	On wages Male	On wages Female	TOTAL			
1935								
Quebec .....	224	29	455	...	708	524,800	466,955	991,755
Ontario .....	232	26	695	...	953	490,814	734,954	1,225,768
Other provinces	108	11	276	...	395	207,620	317,813	525,433
CANADA ....	564	66	1,426	...	2,056	1,223,234	1,519,722	2,742,956
1936								
Quebec .....	268	37	556	...	861	614,656	637,859	1,252,515
Ontario .....	269	30	907	...	1,206	599,757	1,116,573	1,716,330
Other provinces	120	13	367	...	500	255,177	462,692	717,869
CANADA ....	657	80	1,830	...	2,567	1,469,590	2,217,124	3,686,714

Table 5 - WAGE-EARNERS, BY MONTHS, 1935 and 1936.

Months	1935	1936
January .....	1,044	1,455
February .....	1,250	1,545
March .....	1,388	1,634
April .....	1,335	1,563
May .....	1,409	1,703
June .....	1,446	1,808
July .....	1,665	2,049
August .....	1,635	2,099
September .....	1,613	2,215
October .....	1,431	2,145
November .....	1,502	1,878
December .....	1,400	1,883
AVERAGE .....	1,426	1,830

Table 6 - TOTAL OF WAGE-EARNERS IN MONTH OF HIGHEST EMPLOYMENT, ACCORDING TO REGULAR HOURS WORKED PER WEEK, 1936.

Note - Figures given in this table were obtained by adding the data as reported by the individual establishments. Since the month of highest employment was not always the same for each establishment the total shown in this table is greater than the highest monthly total given in table 5.

Regular hours worked per week	Number of wage-earners	Regular hours worked per week	Number of wage-earners
40 hours or less .....	74	51-53 hours .....	27
41-43 hours .....	4	54 hours .....	16
44 hours .....	1,404	55 hours .....	48
45-47 hours .....	264	56-59 hours .....	16
48 hours .....	24	60 hours or over ....	30
49-50 hours .....	733	Total .....	2,640

Table 7 - FUEL AND ELECTRICITY USED, 1935 and 1936.

Kinds	Unit of Measure	1 9 3 5		1 9 3 6	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Bituminous coal - Canadian ..	short ton	4,555	29,291	5,446	35,092
Imported ..	short ton	1,184	7,618	1,754	11,310
Anthracite coal - Imported ..	short ton	59	725	93	1,191
Coke .....	short ton	548	4,786	624	5,640
Gasoline .....	Imp. gal.	22,351	4,902	28,635	6,367
Kerosene .....	Imp. gal.	546	115	723	144
Fuel oil .....	Imp. gal.	180,618	14,342	327,727	25,900
Gas - Manufactured .....	M cu. ft.	15,391	8,586	3,170	3,912
Natural .....	M cu. ft.	5,139	1,558	17,120	5,923
Electricity purchased .....	K. W. H.	6,190,407	105,680	7,924,063	107,286
Other fuel .....	xxx	...	3,421	...	3,784
TOTAL .....	xxx	...	181,024	...	206,549



Table 8 - POWER EQUIPMENT, 1935 and 1936.

	1 9 3 5		1 9 3 6	
	Number of units	Total rated horse power	Number of units	Total rated horse power
Steam engines and turbines .....	18	491	16	385
Gasoline, gas and oil engines .....	22	834	26	1,120
Total Primary Equipment .....	40	1,325	42	1,505
Electric motors run by purchased power	1,566	26,196	1,687	26,602
TOTAL .....	1,606	27,521	1,729	28,107
Electric motors run by above primary units .....	83	1,056	...	...
Total Electric Motors .....	1,649	27,252	1,687	26,602
All boilers .....	71	4,316	72	4,389

Table 9 - POWER EQUIPMENT SUB-DIVIDED BETWEEN IN USE AND IN RESERVE OR IDLE, 1936.

	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total rated horse power	Number of units	Total rated horse power
Steam engines and turbines .....	12	305	4	80
Gasoline, gas and oil engines .....	26	1,120	...	...
Total Primary Equipment .....	38	1,425	4	80
Electric motors run by purchased power	1,635	25,453	52	1,149
TOTAL .....	1,673	26,878	56	1,229
Electric motors run by above primary units .....	...	...	...	...
Total Electric Motors .....	1,635	25,453	52	1,149
All boilers .....	67	3,917	5	472

Table 10 - MATERIALS USED, 1935 and 1936.

Materials	1 9 3 5		1 9 3 6	
	Quantity Tons	Cost at works \$	Quantity Tons	Cost at works \$
Structural steel -				
Shapes, including channels, beams, columns, angles, joists, tees and zees .....	36,914	1,700,252	55,049	2,596,020
Plates and sheets .....	24,638	1,199,187	28,348	1,311,734
Miscellaneous, including bars, billets, slabs, rounds, squares and sheet piling .....	7,622	387,434	13,153	607,247
Other materials -				
Electrical apparatus and supplies .	...	20,126	...	77,982
Other complete parts purchased, including engines, boilers, etc. .	...	231,815	...	186,609
Lumber ..... M ft. b.m.	330	11,106	372	16,087
Other materials .....	...	351,689	...	559,517
TOTAL .....	...	3,901,609	...	5,355,196

Table 11 -- PRODUCTS MADE, 1935 and 1936.

Products	1 9 3 5		1 9 3 6	
	Selling value		Selling value	
	Quantity	at works	Quantity	at works
	Tons	\$	Tons	\$
Bridges .....	2,834	335,867	12,189	2,274,429
Structural work (buildings, transmission towers, etc.) .....	39,560	4,559,698	47,290	5,211,976
Plate and tank work including tanks, hoppers, digesters, etc. ....	3,410	398,449	7,698	992,283
Mechanical work, including cranes, trolleys, etc. ....	1,589	250,846	2,533	558,456
Sales of plain material .....	26,253	1,642,085	23,561	1,491,106
Custom work and repairs .....	...	110,647	...	994,173
Other products .....	...	300,007	...	391,495
TOTAL .....	...	7,597,599	...	11,913,918
Value of work in process at end of year .....	...	1,815,323	...	1,030,805

DIRECTORY OF FIRMS IN THE BRIDGE BUILDING AND STRUCTURAL STEEL WORK INDUSTRY, 1936.

Names of Firms

Location of Plants

Canadian Bridge Company Limited	1129 Walker Road, Walkerville, Ont.
Canadian Structural Steel Works Co. Ltd.	4600 Seventeenth Ave., Rosemount, Montreal, P.Q.
Dominion Bridge Co. Ltd.	Lachine, P.Q., McKay St., Eastview, Ont., 1139 Shaw St., Toronto, Ont., Dublin Ave., Winnipeg, Man., 803 - 24th Ave. S. E., Calgary, Alberta, 275 First Ave. W., Vancouver, B.C.
Disher Steel Construction Co. Ltd.	80 Commissioners St., Toronto 2, Ont.
Eansor, T. J., & Sons, Limited	300 Pitt St. E., Windsor, Ont.
Eastern Canada Steel & Iron Works Ltd.	Lesage Ave., Quebec, P. Q.
Hamilton Bridge Co. Limited	Depew St. and Caroline St. N., Hamilton, Ont.
London Structural Steel Co. Ltd.	48 Burslem St., London, Ont.
Mackinnon Steel Corporation, Ltd.	Industrial St., Sherbrooke, P.Q.
Sarnia Bridge Co., Ltd.	251 Campbell St., Sarnia, Ont.
Standard Steel Construction Co. Ltd.	Port Robinson, Ont.
Western Bridge Co. Ltd.	195 First Ave. W., Vancouver, B.C.
Winnipeg Bridge Co. Ltd.	153 Aubert St., St. Boniface, Man.

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