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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.

IRON AND STEEL AND THEIR PRODUCTS

THE BRIDGE BUILDING AND STRUCTURAL STEEL WORK INDUSTRY, 1933.

The value of work done in the Bridge and Structural Steel Industry amounted to \$5,616,430 in 1933. This industry includes the concerns which were engaged chiefly in fabricating and erecting structural steel for bridges, buildings, etc., and in 1933 covered the operations of 18 establishments of which 9 were in Ontario, 4 in Quebec, 2 in British Columbia, 2 in Manitoba, and 1 in Alberta. Production in the previous year, 1932, was valued at \$7,385,013 with 18 plants in operation, and in 1931 the total was \$22,170,215 from 21 establishments.

Capital employed in 1933 totalled \$22,905,185 or nearly \$2 millions less than in 1932; the number of employees was 1,433 compared with 2,193 in the previous year; salaries and wages aggregated \$2,002,483 against \$3,635,213, and the cost of materials used was \$5,616,430 compared with \$7,385,013 in 1932.

The principal products were: bridges, 11,053 tons at \$1,990,899; structural work (buildings, transmission towers, etc.), 15,843 tons at \$1,640,130; plate and tank work, 4,442 tons at \$470,399; and mechanical work, 1,792 tons at \$355,032.

The value of work in process at the end of the year was \$585,762 compared with \$1,232,734 at the end of 1932.

Table 1 - PRINCIPAL STATISTICS OF THE BRIDGE AND STRUCTURAL STEEL WORK INDUSTRY IN CANADA, 1932 and 1933.

Years	No. of plants	Capital employed	Average number of em- ployees	Salaries and wages	Cost of materials at works	Selling value of products at works	Value added by manu- facturing
		\$		\$	\$	\$	\$
<u>1932</u>							
Quebec	4	6,443,007	872	1,614,661	1,765,187	2,379,710	614,523
Ontario	10	13,724,582	945	1,348,895	1,832,468	3,447,237	1,614,769
Manitoba	1)						
Alberta	1)	4,704,630	376	671,657	511,487	1,558,066	1,046,579
British Columbia.	2)						
CANADA	18	24,872,219	2,193	3,635,213	4,109,142	7,385,013	3,275,871
<u>1933</u>							
Quebec	4	5,457,401	657	980,725	820,238	3,162,694	2,342,456
Ontario	9	13,605,568	601	734,629	631,026	1,305,398	674,372
Manitoba	2)						
Alberta	1)	3,842,216	175	287,129	355,187	1,148,338	793,151
British Columbia.	2)						
CANADA	18	22,905,185	1,433	2,002,483	1,806,451	5,616,430	3,809,979

Table 2 - CAPITAL EMPLOYED, BY PROVINCES, 1932 and 1933.

Provinces	Present value of land,build- ings,fixtures, machinery, tools and other equipment	Inventory value of materials on hand,stocks in process,fuel and supplies on hand	Inventory value of finished products on hand	Operating capital (cash, bills and accounts re- ceivable, etc.)	TOTAL CAPITAL EMPLOYED
	\$	\$	\$	\$	\$
<u>1932</u>					
Quebec	3,607,343	1,800,091	101,191	934,382	6,443,007
Ontario	8,622,850	955,770	365,483	3,780,479	13,724,582
Other provinces.	3,570,291	537,908	861	595,570	4,704,630
CANADA	15,800,484	3,293,769	467,535	5,310,431	24,872,219
<u>1933</u>					
Quebec	3,486,405	1,161,422	162,984	646,590	5,457,401
Ontario	6,692,284	712,668	359,804	5,840,812	13,605,568
Other provinces.	2,989,924	571,092	769	280,431	3,842,216
CANADA	13,168,613	2,445,182	523,557	6,767,833	22,905,185

Table 3 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1932 and 1933.

Provinces	Average number of employees					Salaries	Wages	TOTAL SALARIES AND WAGES
	On salaries		On wages		TOTAL			
	Male	Female	Male	Female				
						\$	\$	\$
1932								
Quebec	187	27	658	...	872	785,590	329,071	1,614,661
Ontario	228	32	685	...	945	603,383	745,512	1,348,895
Other provinces.	117	13	246	...	376	278,541	393,116	671,657
CANADA	532	72	1,589	...	2,193	1,667,514	1,967,699	3,635,213
1933								
Quebec	179	23	455	...	657	523,120	457,605	980,725
Ontario	129	22	450	...	601	364,768	369,861	734,629
Other provinces.	83	11	81	...	175	186,859	100,270	287,129
CANADA	391	56	986	...	1,433	1,074,747	927,736	2,002,483

Table 4 - WAGE-EARNERS, BY MONTHS, 1932 and 1933.

Months	1	9	3	2	1	9	3	3
	In shops	On erection		TOTAL	In shops	On erection		TOTAL
January	1,793	436		2,229	560	128		688
February	1,808	545		2,353	511	75		586
March	1,687	485		2,172	543	96		639
April	1,437	560		1,997	554	117		671
May	1,408	497		1,905	680	222		902
June	1,229	451		1,680	861	239		1,100
July	1,112	498		1,610	908	291		1,199
August	946	310		1,256	921	299		1,220
September	875	229		1,104	1,016	390		1,406
October	791	259		1,050	868	470		1,338
November	793	156		949	668	444		1,112
December	545	203		748	614	336		950
AVERAGE	1,202	387		1,589	726	260		986

Table 5 - TOTAL OF WAGE-EARNERS IN MONTHS OF HIGHEST EMPLOYMENT, ACCORDING TO REGULAR HOURS OF WORK PER WEEK (Overtime not included)

Regular hours per week	Number of wage-earners		Regular hours per week	Number of wage-earners	
	1932	1933		1932	1933
40 hours or less	769	606	51 - 53 hours	10	...
41 - 43 hours	3	...	54 hours .....	...	...
44 hours	975	290	55 hours	18	19
45 - 47 hours	87	38	56 - 59 hours	21	2
48 hours	1	...	60 hours	4	2
49 - 50 hours	396	313	Over 60 hours	113	27

Table 6 - FUEL AND ELECTRICITY USED, 1932 and 1933.

Kinds	Unit of measure	1	9	3	2	1	9	3	3
		Quantity		Cost at works		Quantity		Cost at works	
					\$				\$
Bituminous coal - Canadian ..	short ton	7,148			45,909	3,978			24,460
Imported ..	short ton	2,924			13,409	1,082			5,712
Anthracite coal - Imported ..	short ton	80			1,222	172			2,277
Coke	short ton	228			1,761	143			1,174
Gasoline	Imp. gal.	15,058			3,494	13,872			2,368
Kerosene	Imp. gal.	355			59	230			45
Fuel oil	Imp. gal.	244,823			17,950	125,322			9,931
Wood	cord	...			...	20			60
Gas - Manufactured	M cu.ft.	9,187			6,790	6,375			5,267
Natural	M cu.ft.	19,736			8,986	2,888			1,001
Electricity purchased	K.W.H.	7,017,336			140,492	4,592,873			103,211
Other fuel	xx	...			164	...			165
TOTAL	xx	...			240,236	...			155,721

Table 7 - POWER EQUIPMENT, 1932 and 1933.

	1	9	3	2	1	9	3	3
	Number of units		Total rated horse power		Number of units		Total rated horse power	
Steam engines and turbines	17			471	17			471
Gasoline, gas and oil engines	11			549	11			549
Total Primary Equipment	28			1,020	28			1,020
Electric motors run by purchased power	1,626			27,643	1,625			27,140
TOTAL	1,654			28,663	1,653			28,160
Boilers	60			3,730	69			4,300

Table 8 - MATERIALS USED, 1932 and 1933.

Materials	1	9	3	2	1	9	3	3
	Quantity		Cost at works		Quantity		Cost at works	
	Tons		\$		Tons		\$	
Structural steel -								
Shapes, including channels, beams, columns, angles, joists, tees and zees	44,102		1,969,613		20,258		856,708	
Plates and sheets	20,425		867,121		13,339		542,605	
Miscellaneous, including bars, billets, slabs, rounds, squares and sheet piling ..	7,922		372,680		2,736		118,853	



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-4-

Table 8 - MATERIALS USED, 1932 and 1933. (concluded)

Materials	1	9	3	2	1	9	3	3
	Quantity		Cost at		Quantity		Cost at	
	Tons		\$		Tons		\$	
Other materials -								
Electrical apparatus and supplies .....	...		79,767		...		43,394	
Other complete parts purchased, in-								
cluding engines, boilers, etc. ....	...		30,430		...		9,858	
Lumber M ft. b.m. .	356		15,138		151		7,561	
Other materials .....	...		774,393		...		227,472	
TOTAL .....	...		4,109,142		...		1,806,451	

Table 9 - PRODUCTS MADE, 1932 and 1933.

Products	1	9	3	2	1	9	3	3
	Quantity		Selling value		Quantity		Selling value	
	Tons		\$		Tons		\$	
Bridges	14,218		1,721,215		11,053		1,990,899	
Structural work (buildings, transmission								
towers, etc.)	30,802		3,243,325		15,843		1,640,130	
Plate and tank work	4,062		589,940		4,442		470,399	
Mechanical work, including cranes,								
trolleys, etc. ....	...		355,397		1,792		355,032	
Sales of plain material	15,115		1,021,633		12,104		782,524	
Custom work and repairs .....	...		103,794		...		215,435	
Other products .....	...		349,709		...		162,011	
TOTAL .....	...		7,385,013		...		5,616,430	
Value of work in process at end of year	...		1,232,734		...		585,762	

DIRECTORY OF FIRMS IN THE BRIDGE BUILDING AND STRUCTURAL STEEL WORK INDUSTRY, 1933.

Names of Firms

Location of Plants

Canadian Bridge Company Limited	Walkerville, Ont.
Canadian Structural Steel Works Co. Ltd.	4600 Seventeenth Ave., Rosemont, Montreal, P.Q.
Dominion Bridge Co. Limited	Lachine, P.Q.
" " " "	Ottawa (Eastview), Ont.
" " " "	1139 Shaw St. and 289 Sorauren Ave., Toronto, Ont.
" " " "	Dublin Ave., Winnipeg, Man.
" " " "	803 - 24th Ave. S.E., Calgary, Alberta
" " " "	275 First Ave. W., Vancouver, B.C.
Disher Steel Construction Co. Limited	80 Commissioners St., Toronto, 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 Company Limited	Barton and Caroline Sts., Hamilton, Ont.
	Depew and Burlington Sts., Hamilton, Ont.
	Fleet St. W., Toronto, Ont.
	Burslem St., London, Ont.
London Structural Steel Co. Limited	Industrial St., Sherbrooke, P.Q.
Mackinnon Steel Corporation, Ltd.	Fleet St. W., Toronto, Ont.
Reid & Brown Structural Steel & Iron Works, Ltd.	251 Campbell St., Sarnia, Ont.
Sarnia Bridge Co. Limited	195 - 1st Ave. W., Vancouver, B.C.
Western Bridge Co. Ltd.	153 Aubert St., St. Boniface, Man.
Winnipeg Bridge Co. Ltd.	