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

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. T. TER 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, 1937.

Value of work done by concerns in the Bridge Building and Structural Steel Work Industry amounted to \$16,850,324 in 1937 compared with \$11,913,918 in the previous year, \$7,597,599 in 1935, and \$26,055,783 in 1930.

This industry includes all works chiefly engaged in fabricating and erecting steel for bridges, buildings, etc., and in 1937 covered the operations of 19 plants, of which 10 were located in Ontario, 4 in Quebec, 2 in British Columbia, 2 in Manitoba, and 1 in Alberta.

Capital employed in 1937 totalled \$21,200,308 against \$19,672,350 in 1936. Work was afforded to a monthly average of 3,418 people who received \$5,004,456 in salaries and wages while in the previous year, 2,567 workers received \$3,686,714. Materials used in manufacturing in 1937 cost \$8,657,728 as against \$5,355,196 in the previous year, and the cost of fuel and electricity was \$247,801 compared with \$206.549 in 1936.

Principal products during 1937 included - bridges, 16,948 tons at \$3,325,045; structural work such as buildings, transmission towers, etc., 65,231 tons at \$8,254,727; plate and tank work, 9,736 tons at \$1,599,693; mechanical work,including cranes, trolleys, etc., 2,620 tons at \$825,008. Sales of plain material were reported at 23,786 tons at \$1,853,484.

The value of work in process on December 31, 1937, was \$2,210,227, the corresponding figure for the preceding year being \$1,030,805.

287 mound the Corr

-2-Table 1 - PRINCIPAL STATISTICS OF THE BRIDGE BUILDING AND STRUCTURAL STEEL WORK INDUSTRY, 1930 - 1937.

THE RESERVE OF THE PERSON OF T		IN	DUSTRY,	1930 - 1937	7.		
			Average		Cost of	d Star saturality graphy and subject and description in Parison I and the continuous control of the substances.	Gross sell-
No	of	Capital 1	_			Cost of	ing value
	ants	employed			electricit		of products
pro	ALI OD		ployees	wages	at works	at works	at works
place and will and have a silgent the silvent solved, a freely-ordering,	Land to the second	The state of the second of the	provees	wakes	S S	at Works	at works
3.000	1	Φ 000 0F3	4 6 4 10	•	W	70 700 071	\$
1930	13	28,922,951	4,943	8,686,062	336,392	12,549,435	26,065,788
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
Per cent change	20	Na. y Noo y ooo	0,210	0,001,100	21,002	0,001,120	10,000,004
	/= =	170	177 1	1 75 7	1000	103 0	/ 47 4
1937 from 1936.	* 5.5	<i>+</i> 7.8	<i>≠</i> 33.1	<i>≠</i> 35.7	£ 20.0	<i>≠</i> 61.7	<i>f</i> 41.4
CONTRACTOR OF STATE AND ADDRESS OF THE PARTY					The state of the s		and the second s
m. b. 1	147 00	A MT CONT CO	r management	rand tore	2 2000		
Table 2 - PRINCIE	'AL ST		mentioned and a secretary	IUES, 1936 a			
			Average		Cost of		Gross sell-
	of		number	Salaries	fuel and	Cost of	ing value
Province pla	ints	employed o	of em-	and e	electricity	materials	of products
		T. T.	oloyees	wages	at works	at works	at works
		\$		\$	\$	\$	\$
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)	10,500,510	1,000	T 9 1 T U 9 00 U	00,314	Y 9 1 4 T 9 3 4 . T	9904T9001
	i i	4 007 075	500	777 000	40 007	3 774 057	7 000 070
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	11,913,918
4 6 7 7							
1937							
Quebec	4	6,057,314	1,192	1,786,936	95,092	2,349,752	4,848,357
Ontario	10	10,210,664	1,631	2,332,432	114,227	4,456,388	7,793,585
Manitoba	2)						
Alberta	1)	4,932,330	5 9 5	885,088	38,482	1,851,588	4,208,382
British Columbia	2)						
CANADA	And and the second	21,200,308	3 418	5,004,456	247 801	8,657,728	16.850.324
most accordance of the state of the same of the same of	- Little Town	NI INOU BOOK	01210	010021200	NET 1001	0,001,01,00	1010001001
Table 3 - CAPITAL	FMPLO	YED. BY PRO	VINCES	1936 and 1	937.		
to the temper of the temperature of tempe		sent value o		rentory valu		ing	
		l, buildings		materials a		l (cash,	TOTAL
Province		tures, machi		ished produ			CAPITAL
Frovince							
		tools and		hand, and		ts re-	EMPLOYED
transference and any other services are an analysis of the services of the ser	otne	er equipment	Sto	cks in proc	ess celvan	Le, etc./	A.
		\$		\$	\$		\$
1936							
Quebec		2,961,080		979,111	74	4,966	4,685,157
Ontario		6,273,207		1,621,895		8,816	10,963,918
Other provinces .		2,956,043		741,635		5,597	4,023,275
CANADA	7	2,190,330		3,342,641		9,379	19,672,350
	e de la companie						e a return to the same of the
1937							
Quebec		2,986,595		2,081,439	98	9,280	6,057,314
Ontario		5,745,260		2,619,591	1,84	5,813	10,210,664
Other provinces		3,006,043		1,325,744		0,543	4,932,330
CANADA	C-1-0-1-0-0	1,737,898	Control of the second second	6,026,774	er melt med melt trainfallet find from a mer men	5,636	21,200,308
Martinger at the province of the second seco		- de la companya de l	AND THE PERSON NAMED IN COLUMN 2	The state of the s	Company and the second	and the second second second	

Table 4 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1936 and 1937.								
	Ave	rage N	umber o	of Emplo	yees	a para a Milara		TOTAL
Province	And you was not a second	laries				Salaries	Wages	SALARIES
	Male	Female	Male	Female	TOTAL			and WAGES
						\$	\$	\$
1936	0.00	10.00	550		0.03	03.4.050	077 050	3 050 535
Quebec	268	37	556	0 0 0	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	000	500	255,177	462,692	717,869
CANADA	657	80	1,830	0 0 0	2,567	1,469,590	2,217,124	3,686,714
2 0 7 7								
1937								TARREST TOTAL
Quebec	330	43	819	606	1,192	780,803	1,006,133	1,786,936
Ontario	299	37	1,295	0 0 0	1,631	708,369	1,624,063	2,332,432
Other provinces	137	16	442		595	291,042	594,046	885,088
CANADA	766	96	2,556		3,418	1,780,214	3,224,242	5,004,456
Table 5 - WAGE-E	ARNERS	BY M	ONTHS.	1936 an	d 1937.			
26 45					2 0 5 0		3 0 7 7	
Month					1 9 3 6		1937	
	a to amonghous superior	agentinan raina Wina	a - de-mine company	terms (Springer) and and antique				
January					1,455		1,691	
February					1,545		1,711	
March					1,634		1,973	
April					1,563		2,263	
May					1,703		2,513	
June					1,808		2,766	
July					2,049		2,851	
August	000000		0 0 0		2,099		3,055	
September	00000				2,215		2,979	
October					2,145		3,073	
November					1,878		2,979	
December		• • • • • •	e o o	district of the contract of th	1,883		2,750	Table
AVERAGE	000000	00000	0 0 0		1,830		2,556	
 I of the the second of a second of the second	andpublic in the colorest	to grant of the Parties of the	Mar to an in a restle of the seller of	ni in in 1981 Met selle Massimi	the self-self-self-self-self-self-self-self-	a contratti dell'alla e elementa e	troughtes, automatically established instructive	Erritorio aptimitationi e altrodomici (il 177
Table 6 - REGULAR HOURS WORKED PER WEEK BY WAGE-EARNERS, 1936 and 1937.								
(Based on period of highest employment)								
Regular hours			ent of			ular hours	Per c	ent of
worked per			earners	3		ked per		earners
week		1936	1937		wee		1936	1937
40 hours or less		2.8	1.0)	51	- 53 hours .	1.0	1.3
41 - 43 hours		0.1	1.2			hours		0.4
44 hours		53.2	39.9			hours		0.1
45 - 47 hours		10.0	12.5			- 59 hours .		0.4
48 hours		0.9	18.6		60	hours or ove	r 1.2	1.4
49 - 50 hours	0 0 0 0	27.8	23.2					

-4-						
Table 7 - FUEL AND ELECTRICITY	USED, IS	1 9	3 6	1 9 3	7	
Kind	Unit of		Cost at		Cost at	
A horte J. J. Val.	measure	Quantity		Quantity	works	
		No.	\$		\$	
Bituminous coal - Canadian	short tor	5,446	35,092	5,006	33,030	
Imported	short tor	1,754	11,310	2,381	16,256	
Anthracite coal - Imported	short tor	n 93	1,191	54	853	
Coke	short tor	624	5,640	643	6,182	
Gasoline	Imp. gal.	28,635	6,367	65,312	14,408	
Kerosene	Imp. gal.	723	144	2,049	932	
Fuel oil	Imp. gal.	327,727	25,900	382,297	31,195	
Wood				27	90	
Gas - Manufactured	M cu.ft.	3,170	3,912	3,912	4,612	
Natural	M cu.ft.	17,120	5,923	32,217	13,141	
Electricity purchased	K. W. H.	7,924,063	107,286	10,578,108	126,629	
Other fuel	\$		3,784		473	
TOTAL	\$		206,549		247,801	
Table 8 - POWER EQUIPMENT, 193	36 and 193	37. 1 9 3	6	1 9	3 7	
		Number of	6 Total rated	Number of	Total rated	
			horse power	units	horse power	
Company of the second contract of the second		CHIT OD	Horse bower	WILL OD	HOLDE DOMET	
Steam engines and turbines		. 16	385	13	330	
Diesel engines			• • •	1	40	
Gasoline, gas and oil engines			1,120	35	1,139	
Total Primary Equipment		The state of the s	1,505	49	1,509	
Electric motors run by purchas		The second secon	26,602	1,661	27,823	
TOTAL		. 1,729	28,107	1,710	29,332	
Electric motors run by above p	orimary					
units				79	978	
Total Electric Motors		1,687	26,602	1,740	28,801	
All boilers		. 72	4,389	73	4,393	
	and the same of th					
Table 9 - POWER EQUIPMENT, SUE	B-DIVIDED	BETWEEN "IN	USE" and "]	IN RESERVE O	R IDLE"	
		1937.				
			y in Use	In Reserve	or Idle	
			Total rated	Number of	Total rated	
		units	horse power	units	horse power	
Steam engines and turbines			310	1	20	
Diesel engines			40			
Gasoline, gas and oil engines		. 32	1,084	3	. 55	
Total Primary Equipment		. 45	1,434	4	75	
Electric motors run by purchas	sed power	. 1,609	26,674	52	1,149	
TOTAL			28,108	56	1,224	
		1,001	20,200		2,002	
Electric motors run by above punits		. 79	978			
Total Electric Motors			27,652	52	1,149	
TOTAL FIECUTIC MOTORS		. 1,000	£1,00£	04	1,140	
All boilers		. 68	3,921	5	472	

Table 10 - MATERIALS USED, 1936 and 1937.

	1 9	3 6	1 9	3 7
Material		Cost at		Cost at
	Quantity	works	Quantity	works
	Tons	\$	Tons	\$
Structural steel -				
Shapes, including channels, beams, columns, angles, joists, tees and				
Zees	55,049	2,596,020	78,451	4,116,804
Plates and sheets	28,348	1,311,734		2,291,349
Miscellaneous - including bars, billets, slabs, rounds, squares and sheet				
piling	13,153	607,247	13,726	769,287
Other materials -				
Electrical apparatus and supplies Other complete parts purchased, in-	• • •	77,982	•••	114,720
cluding engines, boilers, etc	• • •	186,609	• • •	330,692
Lumber M ft.b.m	. 372	16,087	1,489	39,503
Other materials		559,517		995,373
TOTAL	• • •	5,355,196	• • •	8,657,728

Table 11 - PRODUCTS MADE, 1936 and 1937.

	1	9 3 6	1	9 3 7
Product		Selling value	е	Selling value
	Quantity	at works	Quantity	at works
	Tons	\$	Tons	\$
Bridges Structural work, other (buildings, trans-	12,189	2,274,429	16,948	3,325,045
mission towers, etc.)	47,290	5,211,976	65,231	8,254,727
hoppers, digesters, etc	7,698	992,283	9,736	1,599,693
trolleys, etc	2,533	558,456	2,620	825,008
Sales of plain material	23,561	1,491,106	23,786	1,853,484
Custom work and repairs		994,173		7,909
Other products		391,495		984,458
TOTAL	0 0 0	11,913,918		16,850,324
Value of work in process at end of year.	• • •	1,030,805		2,210,227



DIRECTORY OF FIRMS IN THE BRIDGE BUILDING AND STRUCTURAL STEEL WORK INDUSTRY, 1937.

Names of Firms

Canadian Bridge Company Limited Canadian Structural Steel Works Co. Ltd.

Dominion Bridge Co. Ltd.

Disher Steel Construction Co. Ltd. Eansor, T.J., & Sons, Limited Eastern Canada Steel & Iron Works Ltd. Hamilton Bridge Co. Limited

London Structural Steel Co. Ltd.
Mackinnon Steel Corporation, Ltd.
Sarnia Bridge Co. Ltd.
Standard Iron and Steel Works
Standard Steel Construction Co. Ltd.
Western Bridge Co. Ltd.
Winnipeg Bridge Co. Ltd.

Location of Plants

1129 Walker Road, Walkerville, Ont. 4600 Seventeenth Ave., Rosemount, Montreal, P.Q. 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. 80 Commissioners St., Toronto 2, Ont. 300 Pitt St. E., Windsor, Ont. Lesage Ave., Quebec, P.Q. Depew St. and Caroline St. N., Hamilton, Ont. 48 Burslem St., London, Ont. Industrial St., Sherbrooke, P.Q. 251 Campbell St., Sarnia, Ont. 3402 Dundas St. W., Toronto, Ont. Port Robinson, Ont. 195 First Ave. W., Vancouver, B.C. 153 Aubert St., St. Boniface, Man.