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MINING, METALLURGICAL AND CHEMICAL BRANCH

OTTAWA - CANADA

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ANNUAL INDUSTRY REPORT

IRON AND STEEL AND THEIR PRODUCTS GROUP

THE BRIDGE BUILDING AND STRUCTURAL STEEL WORK INDUSTRY, 1941

The value of work done by concerns in the Bridge Building and Structural Steel Work Industry amounted to \$53,355,506 in 1941 compared with \$31,230,062 in the previous year.

This industry includes all concerns which were occupied chiefly in fabricating or erecting steel for bridges, buildings, etc., and in 1941 covered the operations of 22 plants of which 12 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 \$31,508,621 and afforded employment to a monthly average of 7.162 people who received \$12,566,538 in salaries and wages. Their fuel and electricity cost \$576,908 and expenditures for materials to be used in manufacturing were \$20.861,731.

Principal products in 1941 included: 3,034 tons of bridges at \$475,795; 158,063 tons of other structural work, such as, buildings, transmission towers, etc., at \$24,802,013; plate and tank work at \$6,389,739 and mechanical work, including cranes, trolleys, etc., at \$5,195,309. Sales of plain material were reported at 66,249 tons worth \$5,596,748.

Table 1 - PRINCIPAL STATISTICS OF THE BRIDGE BUILDING AND STRUCTURAL STEEL WORK

			INDUS'	TRY, 1930-19	941		
			Average		Cost of		Gross sell-
	Number	Capital	number	Salaries	fuel and	Cost of	ing value
Year	of	employed	of em-	and	electricity	materials	of products
	plants		ployees	wages	at works	at works	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
1953	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
1957	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
1940	22	24,848,485	4,409	7,478,171	388,958	16,158,502	31,230,062
1941	22	51,508,621	7,162	12,566,538	576,908	20,861,731	58, 355, 506
Per cent change, 1941 from							
1940	• 0	+26.8	+62.4	+68.0	+48.3	+29.1	+86.9

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 PRO	VINCES, 1940	and 1941		
			Average		Cost of		Gross sell-
	Number	Capital	number	Salaries	fuel and	Cost of	ing value
Province	of	employed	of em-	and	electricity	materials	of products
	plants		ployees	wages	at works	at works	at works
		\$		\$	\$	\$	\$
1940							
Quebec	5	7,767,092	1,486	2,954,410	138,378	4,465,190	11,404,837
Ontario	12	11,800,911	2,287	3,536,931	199,701	9,568,622	14,330,686
Manitoba.	. 2)						
Alberta	1)	5,280,482	636	986,830	50,879	2,124,690	5,494,539
British)						
Columbia.	2)						
CANADA	. 22	24,848,485	4,409	7,478,171	388,958	16,158,502	31,230,062
1941							
Quebec	5	11,086,831	2,646	4,886,811	224,764	6,859,522	22,543,780
Onterio		13,299,460	3,425	5,748,292	243,716		20,113,109
Mani to ba.							
Alberta	1)	7,122,331	1,091	1,931,435	108,428	3,182,570	15,698,617
British)						
Columbia.	2)						
CANADA	manufacture and the first	31,508,621	7,162	12,566,538	576,908	20,861,731	58, 355, 506

Present value				PROVINCES, 1940 and 194 of Inventory value			Operat	ing	
		d, build		of materials and			-	l (cash,	TOTAL
Province	fixtures, machin- finishe				d products bills and		and	CAPITAL	
		tools	and c	n hand				ts re-	EMPLOYED
	othe	er equip	ment s	stocks :	in proc	ess	ceivab	le, etc.)	\$
3 0 4 0		\$			\$			₽	•
1940		0.000	nno.	7	2.00 500		7 04	0 707	7 767 009
Quebec		2,689,			827,5 9 0			9,723	7,767,092
Ontario		4,419,			022,6 97 452,680			8,693 3,2 9 1	11,800,911 5,280,482
Other provinces		3,014,				-			
CANADA		10,123,	RIT	9,	302,967		0,44	1,707	24,848,485
1941									
Quebec		2,688,			638,207			0,411	11,086,831
Ontario		4,607,			007,319			4,793	13,299,460
Other provinces		2,770,	243	2,	874,423		1,47	7,664	7,122,331
CANADA		10,065,	804	12,	51.9,949		8,92	2,868	31,508,621
Table 4 - EMPLOY	ees. s	SALARTES	AND WAG	ES. BY	PROVIN	CES.	1940 a	nd 1941	
Table 1 Ind bol		erage Nu				-			TOTAL
Province	-	alaries				Sal	aries	Wages	SALARIES
		Female			TOTAL	aller ages der Agent			and WAGES
THE PERSON NAMED IN COLUMN	11.1						*	*	\$
1940		50	1 007		7 400	0	00 707	3 001 007	2,954,410
Quebec	333	70	1,083		1,486		92,783	1,961,627 2,680,133	3,536,931
Ontario	358	65 20	1,864		2, 287		56, 798 07, 205	679,625	986,830
Other provinces	820	155	3,434	***	4,409		56,786	5, 321, 385	7,478,171
CANADA	020	100	0,202	0 0 0	1, 100		00,100	0,000,000	1,110,212
1941									
Quebec	378	97	2,171		2,646	1.1	43,392	3,743,419	4,886,811
Ontario	451	95	2,879		3,425	-	93,824	4,654,468	5,748,292
Other provinces	157	28	906	0 0 0	1,091	-	20,107	1,511,328	1,931,435
CANADA	9 86	220	5,956			2,6	57,323	9,909,215	12,566,538
Table 5 - WAGF-E	ARNER	S, BY MC	1 9 4		1941	On t	he last	1 9 4 1	i each month
Month			Total		Ir	sho	ps Or	erection	TOTAL
January			2,20	7		1,101		925	5,026
February			2,41	8		1,144		91.2	5,056
March		• •	2,55			1,172		1,144	5,316
April			2,75			1,098		1,207	5,300
May			2,98			1,471		1,228	5,699
June			3,37			1,689		1,291	5,980
July			3,58			1,868		1,248	6,116
August			3,99			006		1,329	6,335
September			4,16			,006		1,552	6,558
October			4,34			5,189		1,424	6,613
November			4,44			408		1,414	6,822
December			4,38	for any gar agreement was	the case of the second second second second	5,474	the same and the s	1,400	6,874 5,956
AVERAGE			3,43	A		1.717	7	1,239	

Table 6 - HOURS WORKI	D PER WEEK	BY WAGE-EARNERS,	1940 and	1941 (Ir	one week of month
-----------------------	------------	------------------	----------	----------	-------------------

anning golden de de la lacture de lacture de lacture de la lacture de la lacture de la lacture de lacture de la lacture de la lacture de la		er of	ent; overtime included)	Number	rof
Regular hours	wage-	earners	Regular hours	wage- ea	arners
worked per week	1940		worked per week	1940	1941
Under 30 hours	127	274	51 - 54 hours	119	266
31-43 hours	185	308	55 hours	498	283
44 hours	492	1,092	56-64 hours	1,853	1,093
45-47 hours	488	558	65 hours and over.	419	1,390
48 hours	336	510	Total	4,747	6,982
49-50 hours	230	1,203	Total wages paid		
10 00 110 100 101111			in selected week. \$	156.505	241,954

Table 7 - FUEL AND ELECTRI	ULTI USED,	1 9 4	Management of the Street Stree	1 9 4	1
Kind	Unit of measure	Quantity	Cost at works	Quantity	Cost at works
geometrical philing geometrically a deposition for the relations of the color representation for the deposition geometric for the color of the color	per plan de la companya de la compan		S		di.
Bituminous coal - Canadian	ton	9,071	60,182	12,617	91,569
Imported	ton	1,445	11,057	1,898	15,863
Anthracite coal - Imported	ton	89	1,118	1,213	11,477
Coke	ton	988	9,064	538	5,712
Gasoline	Imp.gal.	150,262	35,779	250,238	64,143
Kerosene	Imp.gal.	1,063	178	3,769	482
Fuel oil		691,175	54,961	1,362,168	116,126
Wood	-	15	142	17	167
Gas - Manufactured	M cu.ft.	30,430	15,459	29,784	18,132
Natural	M cu.ft.	57,541	24,832	57,164	25,553
Electricity purchased	K. W. H.	1.5,896,011	168,349	23,527,466	225,616
Other fuel			7,837		2,068
TOTAL			388,958		576,908

Table 8 - POWER EQUIPMENT, 1940 and	1941				
	Ordinar	ily in Use	In Reserve or Idle		
	Number	Total rated	Number	Total rated	
	of units	horse power	of units	horse power	
1 9 4 0					
Steam engines and turbines	14	540	2	45	
Gasoline, gas and oil engines	40	1,439	4	80	
Total Primary Equipment	54	1,979	6	125	
Electric motors run by purchased					
power	1,849	26,673	173	2,804	
TOTAL	1,903	28,652	179	2,929	
Electric motors run by above					
primary units	22	1,108	0 0 0	0 0 0	
Stationary boilers	43	3,183	28	1,400	

Table 8 - POWER EQUIPMENT, 194						47.43
	-	Ordinari.	-		In Reserv	
		Number		l rated		Total rated
		f units	hors	e power	of units	horse power
1 9 4 1						
		14		540	2	45
Steam engines and turbines Gasoline, gas and oil engines		40	1	, 352	4	80
Total Primary Equipment .		54		,892	6	125
	-	0.2		2000		200
Electric motors run by purchas		1,932	27	, 548	134	1,966
power	_	months and the property and			140	
TOTAL	0.0	1,986	63	,440	140	2,091
Electric motors run by above		83	1	150		
primary units		the to a few managements of the fact of	-	,158	•••	1 700
Stationary boilers	0.0	43	3	,182	26	1,328
Table 9 - MATERIALS PURCHASED	AND HEE	D AND T	NVENT	ORIES AT EN	D OF 1941	
Table 3 - Materials Porchasts	ARD OUE	Stoc	-	DIGITAL BIL	Stocks	
	Init of	on h		Purchases	on hand	TOTAL
Material	essure	Jan.		1941	Dec. 31,	MATERIALS
		194			1941	USED 1941
Structural Steel - Shapes, including channels, beams, columns, angles, joists, tees and zees Plates and sheets Miscellaneous - including	ton ton	2,233	,374	158,604 8,423,061 55,832 3,632,199	2,610,7 9 4 12,755	8,046,066 63, 4 51
bars, billets, slabs,						
rounds, squares and sheet piling	ton	7	,517	30,768	8,441	29,844
Lawrence as a second se	\$,112			
Other Materials Used During the Year - Electrical apparatus and						
supplies	\$	2	,807	426,301	1,000	428,108
boilers, instruments,						
castings, etc.)	\$,815	3,495,660		
Lumber M	ft.b.		,734	22,865		/
041	\$,882	732,219		
Other miscellaneous stores.	\$	223	,135	2,226,260	377,361	2,072,034
TOTAL MATERIALS	\$	4,478		20,820,488	4,437,164	20,861,731

Other materials

TOTAL



2,072,034

20,861,731

. . .

Table 10 - MATERIALS USED, 1940 and 19		4 0	1 9	4 1
Material	Quantity	Cost at	Quantity	Cost at
Specialistics of the Control of the	Tons	Č.	Tons	9
Structural steel -				
Shapes, including channels, beams, columns, angles, joists, tees and				
zees	144,983	8,078,907	154,952	8,046,066
Plates and sheets	51,893	3,096,173	63,451	4,145,844
Miscellaneous - including bars, billets, slabs, rounds, squares				
and sheet piling	21,955	1,936,338	29,844	1,842,297
Other materials -				
Electrical apparatus and supplies.	009	238.015	0.00	428,108
Other complete parts purchased,				
including engines, boilers, etc.	4 0 1	601,725	* c ·	3,475,975
Lumber M ft.b.m.	15,295	670,806	25,479	851,407

1,536,538

16,158,502

Table 11 - PRODUCTS MADE, 1940 and 19	the state of the s	4 0	1 9	4 1
		Selling		Selling
Product	Quantity	velue at works	Quanti ty	value at works
	Tons	40	Tons	\$
Bridges	8,778	1,821,598	3,034	475,795
mission towers, etc.) Plate and tank work, including	126,946	17,045,194	158,063	24,802,013
tanks, hoppers, digesters, etc Mechanical work, including cranes,		3,624,766		6,389,739
trolleys, etc		2,229,552		5,195,309
Sales of plain material	49,998	4,276,171	66,249	5,596,748
Custom work and repairs		196,447	9 6 3	433, 298
Other products (x)		2,036,334	030	15,462,604
TOTAL	0 % U	31,230,062	000	58, 355, 506
(x) Includes munitions, sections for	ships, etc.	*		

. . .