# DEPARTIENT OF TRADE AND COMNEIRCE <br> DOMINION BUREAU OF STATISTICS MININS, METALILURGICAL AND CHEMICAL BRANCH OTTAWA - CANADA 

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## IRON AND STEEL AND THEIR PRODUCTS

THE BRIDGE BUILDING AND STRUCTURAL STEEL WORK INDUSTRY, 1934.

The value of work done by the concerns in the Bridge Building and Structural Steel Work Industry amounted to $\$ 4,700,143$ in 1934 . This value compares with corresponding figures for earlier years is follows $\$ 5,616,430$ in 1933; $\$ 7,385,013$ in 1932; $\$ 22,170,215$ in 1931 , and $\$ 26,055,783$ in 1930 .

This industry includes all works which were engaged chiefly in fabricating and erecting steel for bridges, buildings, etc, and in 1934 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.

Capital employed in 1934 totalled $\$ 19,947,521$ or nearly $\$ 3$ millions less than in 1933 , but the average number of workers was higher at 1,659 compared with 1,433 and payments in salaries and wages were slightly greater at $\$ 2,089,552$ as against $\$ 2,002,483$ in 1933. The cost of materials used was given at $\$ 2,765,535$ in 1934 compared with $\$ 1,806,451$ in 1933 .

The principal products in 1954 were: bridges, 3, 173 tons at $\$ 422,715$; other structural work (buildings, transmission towers, etc) 20,837 tons at $\$ 2,057,394$; plate and tank work, 2,379 tons at $\$ 312,753$, and mechanical work, 1,223 tons at $\$ 310,560$,

The value of work in process at the end of the year was $\$ 604,124$ compared with $\$ 585,762$ at the end of 1933.

Table 1 - PRINCIPAL STATISTICS, 1930 - 1934

| - | No of plants | Capital employed | Average number of employees | $\begin{gathered} \text { Salaries } \\ \text { and } \\ \text { wages } \\ \hline \$ \end{gathered}$ | Cost of materials at works | Selling value of products at works | value added by manufacturing |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |
|  |  | \$ |  |  |  |  |  |
| 1930 | 13 | $28,922,951$. | 4, 943 | 8,686,062 | 12,549,435 | 26,055,783 | 13,506,314 |
| 1931 | 21 | 27,469,351. | 4,421 | 7,143,544 | 9,132,721 | 22,170,215 | 13,037,49 |
| 1932 | 18 | 24,872,219 | 2,193 | 3,635,213 | 4,109,142 | 7,385,013 | 3,275,871 |
| 1933 | 18 | 22,905,185 | 1,433 | 2,002,483 | 1,806,451 | 5,616,430 | 3,809,9:9 |
| 1934 | 18 | 19,947,521 | ], 659 | 2,089,552 | 2,765,535 | $4,700,143$ | 1,934,608 |

$-2-$
Table 2 - PRINCIPAL STATISTICS, BY PROVINCES, 1933 and 1934.


1934

| Quebec | 4 | 5,685,381 | 632 | 861,361 | 1,020,618 | 1,429,783 | 409,165 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Ontario | 9 | 10,562,881 | 775 | 864,733 | 1,223,395 | 2,077,549 | 854,154 |
| Mani to ba | 2) |  |  |  |  |  |  |
| Alberta . | 1) | 3,699,259 | 252 | 363,458 | 521,522 | 1,192,811 | 671,289 |
| British Columbia | 2) |  |  |  |  |  |  |
| CANADA |  | 19,947,521 | 659 | 089,552 | 2,765,535 | 4,700,143 | 934,608 |

Table 3 - CAPITAL EMPLOYED, BY PROVINCES, 1933 and 1934.

| Provinces | Present value of land, buildings, fixtures, machinery, tools and other equipment | Inventory value of materials on hend, stocks in process, fuel and supplies on hand | Inventory value of finished products on hand | Operating capital (cash, bills and accounts receivable, etc.) | $\begin{aligned} & \text { TOTAL } \\ & \text { CAPITAL } \\ & \text { EMPLOYED } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1933 \$ \$ \$ |  |  |  |  |  |
| Quebec.0 | 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 | $13,168,61.3$ | 2,445,182 | 523,557 | 6,767,833 | 22,905,185 |
| 1934 |  |  |  |  |  |
| Quebec | 3,134,506 | 755,935 | 4,117 | 1,790,823 | 5,685,381 |
| Ontario | 6,442,475 | 995,598 | 125,899 | 2,998,909 | 10,562,881 |
| Other provinces. | 2,811,942 | 567,057 | 1,119 | 289,141 | 3,699,259 |
| CANADA ..... | - 12,418,923 | 2,318,590 | 131,135 | 5,078,873 | 19,947,521 |

Table 4 - EMPLOYEES, SATARIES AND WAGES, BY PROVINCES, 1933 and 1934.
AVERAGE NUMBER OF EMPLOYEES
TOTAL

| Provinces | $\frac{\text { AVERAGE NUMBER OF EMPLOYEES }}{}$ |
| :--- | :--- |
|  |  |
|  | Male Female Male Female |

SALARIES Male Female Male Female TOTAL

AND WAGES
1933

| Quebec $\ldots \ldots \ldots$ | 179 | 23 | 455 | $\ldots$ | 657 | 523,120 | 457,605 | 980,725 |
| ---: | ---: | ---: | ---: | :--- | :--- | :--- | :--- | :--- |
| Ontar10 $\ldots \ldots \ldots$ | 129 | 22 | 450 | $\ldots$ | 601 | 364,768 | 369,861 | 734,629 |
| Other provinces. | 83 | 11 | 81 | $\ldots$ | 175 | 186,859 | 100,270 | 287,129 |
| CANADA $\ldots \ldots$ | 391 | 56 | 986 | $\cdots$ | 1,433 | $1,074,747$ | 927,736 | $2,002,483$ |

1934

| Quebec | 178 | 25 | 429 |  | 632 | 449,051 | 412,310 | 861,361 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Ontario | 197 | 27 | 551 |  | 775 | 366,428 | 498,305 | 864,733 |
| Other province | 88 | 11 | 153 |  | 252 | 177,202 | 186,256 | 363,458 |
| CATSADA ... | 463 | 63 | 133 |  | 659 | 992,681 | 196,871 | ,089,552 |

Table 5 - WAGE-EARNERS, BY MONTHS, 1933 and 1934.


Table 6 - FUEL AND ELECTRICITY USED, 1933 and 1934.

| Kinds | 19 | 3 | 19 | 34 |
| :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Cost at works | Quantity | Cost at works |
| Bituminous coal - Canadian ${ }^{\text {Imported }}$.. |  | \$ | 4,906 | $31,054$ |
|  | 3,978 | 24,460 |  |  |
|  | 1,082 | 5,712 | 736 | 4,554 |
| Anthracite coal - Imported .. short ton | 172 | 2,277 | 58 | 864 |
| Coke.......................... short ton | 143 | 1,174 | 269 | 2,385 |
| Gasoline .................... Imp. gal. | 13,872 | 2,368 | 15,068 | 3,729 |
| Kerosene .................... Imp. gal. | 230 | 45 | 509 | 113 |
| Fuel oil ........................Imp. gal. | 125,322 | 9,981 | 178,800 | 13,792 |
| Wood ........................... cord | 20 | 60 | - |  |
| Gas - Manufactured ........... M cu.ft. | 6,375 | 5,267 | 10,875. | 6,692 |
| Natural ................ M cu.ft. | 2,888 | 1,001 | 5,569 | 2,399 |
| Electricity purchased ........ K.W.H. | 4,592,873 | 103,211 | 5,427,564 | 104,859 |
| Other fuel ................... xxx | - ...0 | 165 | - | 325 |
| TOTAL ............. xoxx |  | 155,721 |  | 170,764 |

Table 7 - PORER EQUIPMENT, 1933 and 1934.

|  | 19 | $3 \quad 3$ | 19 | 34 |
| :---: | :---: | :---: | :---: | :---: |
|  | Number of units | Total rated horse power | Number of units | Total ratc horse power |
| Steam engines and turbines | 17 | 471 | 17 | 471 |
| Gasoline, gas and oil engines | 11 | 543 | 20 | 774 |
| Total Primary Equipment | 28 | 1,020 | 37 | 1,245 |
| Electric motors mun by purchased power | 1,625 | 27,140 | 1,687 | 27,821 |
| TOTAL | 1,653 | 28,160 | 1,724 | 29,066 |
| All boilers | 69 | 4,300 | 71 | 4,341 |

Table 8 －MATERIALS USED， 1933 and 1934.

|  | 1.93 | 3 | 19 | 34 |
| :---: | :---: | :---: | :---: | :---: |
| Materials | Quantity | Cost at works | Quantity | Cost at works |
|  | Tons | $\$$ | Tons | \＄ |
| Structural steel－ |  |  |  |  |
| Shapes，including channels，beams，columns， |  |  |  |  |
| Plates and sheets | 13，339 | 542，605 | $1.5,661$ | 710，655 |
| Miscellaneous，including bars，billets， slabs，rounds，squares and sheet piling ．． | 2，736 | 118，853 | 5，493 | 271，104 |
| Other materials－ |  |  |  |  |
| Electrical apparatus and supplies ．o． |  | 43，394 |  | 51，507 |
| Other complete parts purchased，including ongines，boilers，etc． |  | 9，858 |  | 220，317 |
|  | 1.51 | 7，561 | 331 | 15，918 |
| Other materials |  | 227,472 |  | 342.657 |
| TOTAL |  | 1，806，451 |  | 2，765，555 |

Table 9 －PRODUCTS MADE 1933 and 1934.
Products

|  | Quantity | at works | Quantity | \＆t works |
| :---: | :---: | :---: | :---: | :---: |
|  | Tons | \＄ | Tons | \＄ |
| Bridges | 11，053 | 1，990，899 | 3，173 | 422，715 |
| Structural work（buildings，transmission towers，etc．） | 15，843 | 1，640，130 | 20，837 | 2，057，394 |
| Plate and tank work 00.0 | 4，442 | 470，599 | 2，379 | 312，753 |
| Mechanical work，including cranes，trolleys， etc． | 1，792 | 355， 032 | 1，223 | 310，560 |
| Sales of plain material | 12，104 | 782，524 | 18，512 | 1，189，839 |
| Custom work and repairs | ○． | 215，435 | ．．． | 99， 142 |
| Other products | $\because$ | 162， 017 | 0 | 307.740 |
| TOTAL | $\because$ | $5,616,430$ | －3．0 | 4， $7000_{2} 143$ |
| Value of work in process at end of year |  | 585，762 | －0， | $604 \times 124$ |

DIRECTORY OF FIRMS IN THE BRIDGE BUILDING AND STRUCTURAL STEEL WORK INDUSTRY $21934_{2}$

## Names of Firms

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

Disher Steel Construction Co．Limited Eansor，T．J．，\＆Sons．Limited Eastem Canada Steel \＆Iron Torks Ltd． Hamilton Bridge Company Limited

## Location of Plants

Walkerville，Ont，
4600 Seventeenth Ave，Rosemount， Montreal，P。Q．
Lachine，$P$ ，Q，
Ottawa（Eastview），Ont。
1139 Shaw St，and 289 Sorauren Ave．， Toronto，Ont，
Dubiin Ave．Winnipeg，Man．
805 － 24 th Ave，SuE．Calgary，Al berta
275 First Ave，Wo，Vancouver，B，C．
80 Commissioners St， Toronto，2，Ont。
300 Pitt，St．E．，Windsor，Ont，
Lesage Ave，Quebec，$P, Q$ ．
Depew and Caroline Sts．，Hamilton，Ont．

DIRECTORY OF FIRUS IN THE BRIDGE BUILDING AND STRUCTURAL STEEL WORK INDUSTRY， 1934 。 （concluded）

Names of Firms

London Structural Steel Co Limited Mackinnon Steel Corporation，Ltd．<br>Sarnia Bridge Co Limited<br>Standard Steel Construction Co。Ltd。 Western Bridge Co，Ltd．<br>Winnipeg Bridge Co，Ltd。

Location of Plants

Burslem Sts，London，Ont． Industrial St．，Sherbrooke，PoQ。 251 Campbell St．，Samia，Ont． Port Robinson，Ont．
195 －lst Ave．Wo，Vancouver，B．C．
153 Aubert St．，St．Boniface，Man。

