

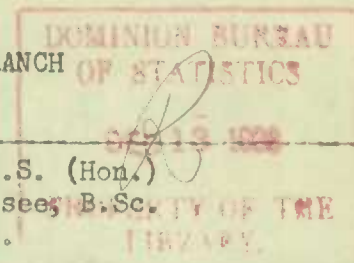
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DEPARTMENT OF TRADE AND COMMERCE  
DOMINION BUREAU OF STATISTICS  
CENSUS OF INDUSTRY  
MINING, METALLURGICAL AND CHEMICAL BRANCH  
OTTAWA - CANADA



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ANNUAL INDUSTRY REPORT

IRON AND STEEL AND THEIR PRODUCTS GROUP

THE BRIDGE BUILDING AND STRUCTURAL STEEL WORK INDUSTRY, 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.

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

| Year            | 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                 | 26,065,783                               |
| 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                                |
| 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 |               |                  |                             |                    |                                       |                            |  |
| 1937 from 1936. | 45.5          | 7.8              | 33.1                        | 35.7               | 20.0                                  | 61.7                       | 41.4                                     |

Table 2 - PRINCIPAL STATISTICS, BY PROVINCES, 1936 and 1937.

| Province         | 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 |
|------------------|---------------|------------------|-----------------------------|--------------------|---------------------------------------|----------------------------|--|
|                  |               | \$               |                             | \$                 | \$                                    | \$                         | \$                                       |
| <b>1936</b>      |               |                  |                             |                    |                                       |                            |  |
| 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                  | 11,913,918                               |
| <b>1937</b>      |               |                  |                             |                    |                                       |                            |  |
| 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        | 595                         | 885,088            | 38,482                                | 1,851,588                  | 4,208,382                                |
| British Columbia | 2)            |                  |                             |                    |                                       |                            |  |
| CANADA .....     | 19            | 21,200,308       | 3,418                       | 5,004,456          | 247,801                               | 8,657,728                  | 16,850,324                               |

Table 3 - CAPITAL EMPLOYED, BY PROVINCES, 1936 and 1937.

| Province          | 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 |
|-------------------|--|---|---|------------------------|
|                   | \$   | \$  | \$  | \$                     |
| <b>1936</b>       |  |   |   |                        |
| 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             |
| <b>1937</b>       |  |   |   |                        |
| Quebec .....      | 2,986,595  | 2,081,439   | 989,280   | 6,057,314              |
| Ontario .....     | 5,745,260  | 2,619,591   | 1,845,813   | 10,210,664             |
| Other provinces . | 3,006,043  | 1,325,744   | 600,543   | 4,932,330              |
| CANADA .....      | 11,737,898   | 6,026,774   | 3,435,636   | 21,200,308             |



Table 4 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1936 and 1937.

| Province        | Average Number of Employees |        |          |        |                       | Salaries  | Wages     | TOTAL     |
|-----------------|-----------------------------|--------|----------|--------|-----------------------|-----------|-----------|-----------|
|                 | On salaries                 |        | On wages |        | SALARIES<br>and WAGES |           |           |           |
|                 | Male                        | Female | Male     | Female |                       |           |           | TOTAL     |
|                 |                             |        |          |        |                       | \$        | \$        | \$        |
| 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 |
| 1937            |                             |        |          |        |                       |           |           |           |
| Quebec .....    | 330                         | 43     | 819      | ...    | 1,192                 | 780,803   | 1,006,133 | 1,786,936 |
| Ontario .....   | 299                         | 37     | 1,295    | ...    | 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-EARNERS, BY MONTHS, 1936 and 1937.

| Month           | 1936  | 1937  |
|-----------------|-------|-------|
| 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 .....    | 2,099 | 3,055 |
| September ..... | 2,215 | 2,979 |
| October .....   | 2,145 | 3,073 |
| November .....  | 1,878 | 2,979 |
| December .....  | 1,883 | 2,750 |
| AVERAGE .....   | 1,830 | 2,556 |

Table 6 - REGULAR HOURS WORKED PER WEEK BY WAGE-EARNERS, 1936 and 1937.

(Based on period of highest employment)

| Regular hours<br>worked per<br>week | Per cent of<br>wage-earners |      | Regular hours<br>worked per<br>week | Per cent of<br>wage-earners |      |
|-------------------------------------|-----------------------------|------|-------------------------------------|-----------------------------|------|
|                                     | 1936                        | 1937 |                                     | 1936                        | 1937 |
| 40 hours or less ...                | 2.8                         | 1.0  | 51 - 53 hours .....                 | 1.0                         | 1.3  |
| 41 - 43 hours .....                 | 0.1                         | 1.2  | 54 hours .....                      | 0.6                         | 0.4  |
| 44 hours .....                      | 53.2                        | 39.9 | 55 hours .....                      | 1.8                         | 0.1  |
| 45 - 47 hours .....                 | 10.0                        | 12.5 | 56 - 59 hours .....                 | 0.6                         | 0.4  |
| 48 hours .....                      | 0.9                         | 18.6 | 60 hours or over ..                 | 1.2                         | 1.4  |
| 49 - 50 hours .....                 | 27.8                        | 23.2 |                                     |                             |      |

Table 7 - FUEL AND ELECTRICITY USED, 1936 and 1937.

| Kind                          | Unit of measure | 1 9 3 6   |                     | 1 9 3 7    |                     |
|-------------------------------|-----------------|-----------|---------------------|------------|---------------------|
|                               |                 | Quantity  | Cost at works<br>\$ | Quantity   | Cost at works<br>\$ |
| Bituminous coal - Canadian .. | short ton       | 5,446     | 35,092              | 5,006      | 33,030              |
| Imported ..                   | short ton       | 1,754     | 11,310              | 2,381      | 16,256              |
| Anthracite coal - Imported .. | short ton       | 93        | 1,191               | 54         | 853                 |
| Coke .....                    | short ton       | 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 .....                    | cord            | ...       | ...                 | 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, 1936 and 1937.

|  | 1 9 3 6         |                         | 1 9 3 7         |                         |
|--|-----------------|-------------------------|-----------------|-------------------------|
|  | Number of units | Total rated horse power | Number of units | Total rated horse power |
| Steam engines and turbines .....                 | 16              | 385                     | 13              | 330                     |
| Diesel engines .....                             | ...             | ...                     | 1               | 40                      |
| Gasoline, gas and oil engines .....              | 26              | 1,120                   | 35              | 1,139                   |
| Total Primary Equipment .....                    | 42              | 1,505                   | 49              | 1,509                   |
| Electric motors run by purchased power.          | 1,687           | 26,602                  | 1,661           | 27,823                  |
| TOTAL .....                                      | 1,729           | 28,107                  | 1,710           | 29,332                  |
| Electric motors run by above primary units ..... | ...             | ...                     | 79              | 978                     |
| Total Electric Motors .....                      | 1,687           | 26,602                  | 1,740           | 28,801                  |
| All boilers .....                                | 72              | 4,389                   | 73              | 4,393                   |

Table 9 - POWER EQUIPMENT, SUB-DIVIDED BETWEEN "IN USE" and "IN RESERVE OR IDLE" 1937.

|  | 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                | 310                     | 1                  | 20                      |
| Diesel engines .....                             | 1                 | 40                      | ...                | ...                     |
| Gasoline, gas and oil engines .....              | 32                | 1,084                   | 3                  | 55                      |
| Total Primary Equipment .....                    | 45                | 1,434                   | 4                  | 75                      |
| Electric motors run by purchased power.          | 1,609             | 26,674                  | 52                 | 1,149                   |
| TOTAL .....                                      | 1,654             | 28,108                  | 56                 | 1,224                   |
| Electric motors run by above primary units ..... | 79                | 978                     | ...                | ...                     |
| Total Electric Motors .....                      | 1,688             | 27,652                  | 52                 | 1,149                   |
| All boilers .....                                | 68                | 3,921                   | 5                  | 472                     |

Table 10 - MATERIALS USED, 1936 and 1937.

| Material   | 1 9 3 6  |                        | 1 9 3 7  |                        |
|--|----------|------------------------|----------|------------------------|
|  | Quantity |                        | Quantity |                        |
|  | Tons     | Cost at<br>works<br>\$ | Tons     | Cost at<br>works<br>\$ |
| Structural steel -   |          |                        |          |                        |
| Shapes, including channels, beams,<br>columns, angles, joists, tees and<br>zees .....        | 55,049   | 2,596,020              | 78,451   | 4,116,804              |
| Plates and sheets .....  | 28,348   | 1,311,734              | 44,316   | 2,291,349              |
| Miscellaneous - including bars, billets,<br>slabs, rounds, squares and sheet<br>piling ..... | 13,153   | 607,247                | 13,726   | 769,287                |
| Other materials -  |          |                        |          |                        |
| Electrical apparatus and supplies .....  | ...      | 77,982                 | ...      | 114,720                |
| Other complete parts purchased, in-<br>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.

| Product  | 1 9 3 6          |                | 1 9 3 7          |                |
|--|------------------|----------------|------------------|----------------|
|  | Selling value    |                | Selling value    |                |
|  | Quantity<br>Tons | at works<br>\$ | Quantity<br>Tons | at works<br>\$ |
| Bridges .....  | 12,189           | 2,274,429      | 16,948           | 3,325,045      |
| Structural work, other (buildings, trans-<br>mission towers, etc.) ..... | 47,290           | 5,211,976      | 65,231           | 8,254,727      |
| Plate and tank work, including tanks,<br>hoppers, digesters, etc. ....   | 7,698            | 992,283        | 9,736            | 1,599,693      |
| Mechanical work, including cranes,<br>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 .....  | ...              | 11,913,918     | ...              | 16,850,324     |
| Value of work in process at end of year.                                 | ...              | 1,030,805      | ...              | 2,210,227      |





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

| <u>Names of Firms</u>                    | <u>Location of Plants</u>  |
|--|--|
| Canadian Bridge Company Limited          | 1129 Walker Road, Walkerville, Ont.  |
| Canadian Structural Steel Works Co. Ltd. | 4600 Seventeenth Ave., Rosemount,<br>Montreal, P.Q.  |
| Dominion Bridge Co. Ltd.                 | Lachine, P.Q.; McKay St., Eastview, Ont.;<br>1139 Shaw St., Toronto, Ont.; Dublin<br>Ave., Winnipeg, Man.; 803 - 24th Ave.<br>S.E., Calgary, Alberta; 275 First Ave.W.,<br>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,<br>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 Iron and Steel Works            | 3402 Dundas St. W., Toronto, 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.   |