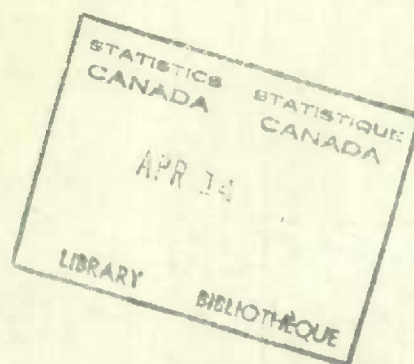


CATALOGUE No.

41-207

ANNUAL



# FABRICATED STRUCTURAL METAL INDUSTRY

## 1960

Formerly Published as "The Bridge Building and Steel Industry".

Note: This report now includes statistics on large storage tanks formerly included in 41-205 - Boilers and Plate Work Industry (Discontinued).

### ANNUAL CENSUS OF MANUFACTURES

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#### SYMBOLS

The interpretation of the symbols used in the tables throughout this publication is as follows:

- .. figures not available.
- ... figures not appropriate or not applicable.
- nil or zero.

## EXPLANATORY NOTES

This report is one in a series of about 140 publications which present the results of the 1960 Census of Manufactures. Most reports in this series refer to specific industries, but there are summary reports for Canada and the provinces and for major industry groups. Adoption of the revised Standard Industrial Classification for 1960 compilations has necessitated changes in titles of many reports in this annual series. The content of many industries has also been affected (see following note on Industrial Classification).

Industry statistics given in these reports refer to number of establishments, employees, salaries and wages, cost of materials, supplies, fuel and electricity, gross value of shipments, inventories and value added by manufacturing. Details of materials used and products shipped are also given. Descriptions of the principal industry statistics, with special reference to 1960 are as follows:

### Period Covered

Firms are asked to submit figures for the calendar year, if at all possible, and most reports are on this basis. Financial year reports for periods differing from the calendar year are accepted in instances where the firms find it impossible to supply calendar year data from accounting records. However the data on employees, salaries and wages are requested on a calendar year basis in all cases.

### Establishment

Data for the annual census is collected on an establishment basis. A firm with more than one plant is required to file a report for each plant. In most cases an establishment is a complete factory; sometimes, however, a plant is divided into two or more establishments when it carries out operations classifiable to different industries and when separate accounting records are available. Usually the statistics for an establishment relate only to the manufacturing activities. Other activities such as construction at the plant by its own employees, wholesale or retail activities carried on at the plant location, etc., are not included. Plants engaged solely in repair work (except in the case of furniture, shipbuilding, boat building, aircraft and railway rolling stock industries) are not included but plants occupied in assembling parts into complete units are included.

### Employees

Administrative and office employees include all executives and supervisory officials such as presidents, vice-presidents, secretaries, treasurers, etc., together with managers, professional and technical employees, superintendents and factory supervisors above the working foremen level, and clerical employees. Working owners and partners are also included in this category.

Production and related workers include all other factory workmen whether paid on a monthly, weekly, hourly or piece-work basis. Working foremen doing work similar to that of the employees they supervise are included, as are maintenance, ware-

housing and delivery staffs. Employees on new construction work, in retail or wholesale operations, on outside piece work etc. are not included.

Production workers are reported by months, an average for the year being obtained by summing the monthly figures and dividing by twelve. This procedure is followed even though the plant did not operate in all months. Figures on employment refer to calendar years whether or not some establishments reported other data on a financial year basis.

### Salaries and Wages

Salaries and wages refer to gross earnings of the employees described above, including salaries, wages, commissions, bonuses, the value of room and board where provided, deductions for income tax and social services such as sickness and unemployment insurance, pensions, etc., as well as any other allowances forming part of the employees' wages. Payments for overtime are included.

Salaries refer to amounts paid to administrative and office employees. Withdrawals by working owners or partners for normal living expenses for self and family are included but not their withdrawals for income tax. Wages refer to the amounts paid to production and related workers as defined above. Data on earnings refer to the calendar year whether or not some establishments reported other data on a financial year basis.

### Cost of Fuel and Electricity

Figures for fuel refer to amounts actually used, (including fuel used in cars and trucks), not to purchases unless the quantities are the same. Values refer to the laid-down cost at the works, including freight, duty, etc.

### Materials and Supplies Used

Figures represent quantities and laid-down cost values, at the works, of materials and supplies actually used during the year whether purchased from others or received as transfers from other plants of the reporting company. Amounts paid to other manufacturers for work done on materials owned by the reporting company are included. Returnable containers or any other items charged to capital account are not included. Fuels are not included. Goods bought from others or received as transfers from other plants or reporting companies for resale without further processing are not included. Maintenance and repair supplies not chargeable to capital account are included.

### Factory Shipments

Factory shipments refer to shipments of goods made from own materials either in the reporting plant or by other manufacturers on the basis of a charge to the reporting plant for work done. All products and by-products shipped from the establishment are included whether for domestic use, export, or for government departments. Transfer shipments to sales outlets, distributing warehouses or to other manufacturing units of the reporting firm are included. Goods bought or received as transfers



and resold without further processing are not included. Values are computed on f.o.b. plant or plant warehouse basis, and do not include sales tax or excise duties. Values of containers not returnable are included. Amounts received in payment for work done on materials owned by others are included.

In a few industries such as shipbuilding, aircraft, etc., where work on principal products extend over a relatively long period, the value of production is recorded rather than the value of shipments. For those industries production is computed from the value of deliveries of complete units during the year plus the value of work done during the year on unfinished units less the value of work done in previous years on finished units delivered in the year under review.

### **Inventories**

Values represent the book values of manufacturing inventories owned and held at the reporting plant. Figures include inventories held in warehouses or selling outlets which have been included with plant operations for purposes of reporting shipments.

### **Value added by Manufacturing**

Figures are computed from value of shipments plus or minus changes in inventories of finished goods and goods in process less cost of materials, fuel and electricity. This figure is sometimes referred to as net production.<sup>1</sup>

### **Standard Industrial Classification**

The revised Standard Industrial Classification which has been introduced with the 1960 Census of Manufactures provides for a breakdown of the universe into 140 industries arranged in 20 major groups compared with 135 industries in 17 major groups in the old classification which was used in the compilations for the years 1949 to 1959 inclusive. It incorporates changes considered desirable on the basis of experience in using the earlier classification as well as those which take account of changes in the structure of Canadian industries associated with the rapid developments of the past decade. Full details are contained in the Standard Industrial Classification Manual, Catalogue No. 12-501, which is available from either the Queen's Printer or the Dominion Bureau of Statistics. Reporting establishments are classified or allotted to specific industries on the basis of the value of principal products made or shipped.

Many industries remain unchanged in the new classification but in many instances there have been substantial changes in content because of the shifting of establishments from one industry to another or in re-grouping of establishments. Where

<sup>1</sup> To arrive at the National Accounts concept of "gross domestic product at factor cost", it would be necessary to subtract also the cost of office supplies used, advertising, insurance and other goods and services obtained from other businesses. Data on these inputs are not collected on the annual Census of Manufactures. Value added figures for "The primary industries and construction" are published in D.B.S. publication 61-202, *Survey of Production*.

changes have occurred the principal statistics for 1957, 1958 and 1959 have been re-compiled to provide data on a basis comparable with those for 1960.

### **Short Forms**

Between 1949 and 1957, in an effort to ease the reporting burden for smaller firms, a short form was used asking for the total value of shipments only or, in a few cases where losses of detail were significant, for quantities and values of principal products. For purposes of publication, missing data were estimated on the basis of appropriate ratios. In general the cut-off point for these short forms was set at \$50,000 value of shipments. About 40% of the total number of establishments reported on the short form and accounted for less than 3 per cent of the total value of shipments.

In 1958, in order to establish a new base year, the small firms were asked to report all items of principal statistics together with some detail on materials and products.

For the 1959 Census, the short form was used again, but further steps were taken to ease the respondents' burden. First, the general limit for short forms was raised to \$100,000 value of shipments. In addition, a new intermediate form was developed. This form is a shortened version of the long form in that most of the general questions were pared down and the detailed lists of materials and products were limited to the more important items. The general limits for firms in this category were set at between \$100,000-\$500,000 value of shipments, but in the case of both the short and intermediate forms there were lower cut-offs for a number of industries in which the smaller firms accounted for a larger share of total shipments. On the other hand, limits were raised where this could be done without a significant loss of coverage. On most of the short forms for 1959, in addition to total value of shipments, data on principal products were requested. In a few industries, where loss of employment and earnings data were considered too large because of higher cut-offs, a question on total payroll was placed on the short form. This practice was followed again in 1960.

The intermediate and long forms provide complete data for the compilation of all elements of principal industry statistics and the details of materials and products. The one-page short form, although containing data on principal products and total value of shipments, does not request information on other elements of principal statistics such as value of inventories, materials, fuel and electricity and, in most cases, employment and salaries and wages, nor does it contain detailed data on volume and value of materials used. For purposes of compiling aggregates of principal statistics by industry and by geographic location, the missing data for each establishment were estimated for 1959 by using, in general, ratios based on the change in the value of shipments between 1958 and 1959. The proportion of the estimated data was generally less than 5 per cent of the total in each category of principal statistics.

# FABRICATED STRUCTURAL METAL INDUSTRY

## 1960

Data presented in this report under the heading of Fabricated Structural Metal Industry reflect implementation of the revised Standard Industrial Classification (SIC) which is being used by the Dominion Bureau of Statistics in its compilation of 1960 industry statistics — see item "Standard Industrial Classification" in the Explanatory Notes section of this report. For statistical purposes the industry titled Fabricated Structural Metal Industry in the revised Standard Industrial Classification covers the operations of establishments primarily engaged in fabrication of heavy steel parts and similar parts of other metals and alloys for structural purposes. Products of this industry include fabricated shapes for bridges, buildings, large tanks and similar structures. Establishments in this industry may erect buildings, bridges and large tanks as well as fabricate the metal parts but they are primarily engaged in fabrication. Establishments primarily engaged in the erection of buildings, bridges and large tanks from purchased metal parts are included in Industry 421—Special—Trades Contractors.

In many instances, adoption of the new Standard Industrial Classification effected a radical shifting of manufacturing establishments as between industry groupings. Where this has occurred an attempt has been made to re-compile 1957, 1958 and 1959 data on the revised Standard Industrial Classification basis for the purposes of comparability. One of the significant elements in the shift in the case of the industry reviewed in this report was the transfer to this industry of establishments fabricating large storage tanks which were previously classified in

the Boilers and Plate Work Industry. The effect of this transfer is reflected in the revised series of statistics presented in Table 1B.

There were 73 establishments classified to the Fabricated Structural Metal Industry in 1960; there being 2 in Nova Scotia, 2 in New Brunswick, 17 in Quebec, 33 in Ontario, 4 in Manitoba, 3 in Saskatchewan, 7 in Alberta and 5 in British Columbia. Employees in this industry numbered 15,195; salaries and wages totalled \$73,032,191; materials used in manufacturing processes cost \$110,143,733 and factory shipments were valued at \$233,165,690.

The principal products were 127,369 tons of structural work for bridges valued at \$53,675,150; 325,498 tons of structural work for buildings valued at \$113,060,277; 35,435 tons of other structural work and transmission towers valued at \$10,211,684; plate work such as metal tanks, pressure vessels and other pressure and vacuum tanks and vessels valued at \$35,880,201; 19,040 tons of fabricated bar joists valued at \$5,660,514 and 27,473 tons of fabricated concrete reinforcing bar valued at \$5,122,872.

**Note:** Figures for value added by manufacture prior to 1960 were obtained by subtracting the cost of materials used, including fuel and electricity, from the value of production. In 1960 the "value added" calculation takes into account the change in finished goods inventory to accommodate products such as machinery, boilers, and other miscellaneous equipment reported in terms of factory shipments rather than production.

**TABLE 1 A. Principal Statistics of the Bridge Building and Structural Steel Industry,<sup>1</sup>  
Significant Years, 1929 - 59**

Basis: Standard Industrial Classification in use prior to 1960

Year	Estab- lish- ments	Em- ployees	Salaries and wages	Cost of fuel and electricity at works	Cost at plant of materials used	Value added by manufacture <sup>1</sup>	Gross selling value of products
	number				dollars		
1929 .....	10	4,977	8,937,427	364,936	14,557,679	19,256,873	34,179,488
1934 .....	18	1,659	2,089,552	170,764	2,765,535	1,763,844	4,700,143
1937 .....	19	3,418	5,004,456	247,801	8,657,728	7,944,795	16,850,324
1939 .....	21	2,949	4,546,648	232,377	6,786,893	8,821,322	15,840,592
1943 .....	22	10,974	23,175,872	1,005,517	24,014,652	47,495,665	72,515,834
1946 .....	25	6,091	15,825,390	639,503	18,896,434	20,586,758	40,122,695
1949 .....	29	7,149	18,576,533	802,391	30,936,308	43,953,532	75,692,231
1955 .....	49	11,863	46,557,144	1,527,085	79,731,908	76,453,347	157,712,340
1956 .....	51	13,707	58,440,200	1,813,402	103,229,597	99,728,554	204,771,553
1957 .....	58	15,974	70,956,268	2,068,714	117,061,824	112,319,961	231,450,499
1958 .....	65	14,531	66,027,964	1,859,516	100,702,283	108,320,903	210,882,702
1959 .....	61	14,725	69,341,631	2,001,209	102,852,464	112,796,871	217,650,544

<sup>1</sup> Gross value less cost of materials, fuel and electricity.

**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 1B. Principal Statistics, Fabricated Structural Metal Industry,<sup>1</sup> by Provinces, 1957-60**  
 Basis: Standard Industrial Classification revised, 1960

Year and province	Estab- lish- ments	Em- ployees	Salaries and wages	Cost of fuel and electricity at works	Cost at plant of materials used	Value added by manufacture <sup>1</sup>	Value of factory shipments
	number				dollars		
1957							
Nova Scotia .....	2	5,855	25,136,245	729,825	43,652,855	32,684,103	77,066,783
Quebec .....	15						
Ontario .....	33	7,906	35,872,570	1,044,150	57,650,692	68,362,024	127,056,866
Manitoba .....	2	1,871	7,719,675	185,420	17,701,582	11,585,313	29,472,315
Alberta .....	6						
British Columbia .....	5	1,813	8,909,947	253,493	14,881,595	13,985,517	29,120,605
Canada .....	63	17,445	77,638,437	2,212,888	133,886,724	126,616,957	262,716,569
1958							
Nova Scotia .....	2	333	1,301,093	53,950	2,635,621	1,940,347	4,629,918
New Brunswick .....	1						
Quebec .....	18	5,180	23,466,545	639,712	32,723,457	37,617,960	70,981,129
Ontario .....	33	6,608	31,022,945	975,711	47,644,077	54,318,011	102,937,799
Manitoba .....	2	2,062	8,780,396	176,331	18,074,515	11,289,368	29,540,214
Alberta .....	6						
British Columbia .....	6	1,431	6,954,504	170,117	11,469,061	11,643,619	23,282,797
Canada .....	68	15,614	71,525,483	2,015,821	112,546,731	116,809,305	231,371,857
1959							
Nova Scotia .....	2	382	1,433,334	56,322	2,587,032	2,425,631	5,068,985
New Brunswick .....	1						
Quebec .....	17	5,274	24,330,546	678,187	35,237,004	42,776,307	78,691,498
Ontario .....	33	6,407	31,022,545	1,057,893	46,955,669	51,493,417	99,506,979
Manitoba .....	3	1,147	5,428,049	93,907	8,557,932	8,253,542	16,905,381
Saskatchewan .....	1						
Alberta .....	6	1,259	5,466,843	96,436	10,717,231	7,358,715	18,172,382
British Columbia .....	5	1,277	6,383,372	174,541	9,360,062	8,484,226	18,018,829
Canada .....	68	15,746	74,064,689	2,157,286	113,414,930	120,791,838	236,364,054
1960							
Nova Scotia .....	2	440	1,805,100	66,667	3,366,587	3,343,476	6,776,730
New Brunswick .....	2						
Quebec .....	17	4,973	23,403,253	625,397	30,114,418	30,214,173	60,908,289
Ontario .....	33	6,347	31,117,745	1,075,908	50,776,276	53,025,158	104,722,373
Manitoba .....	4	888	4,489,437	91,183	4,969,948	15,828,180	20,904,861
Saskatchewan .....	3	150	537,432	16,143	1,439,068	453,381	1,890,181
Alberta .....	7	1,172	5,167,596	111,056	10,046,311	9,202,166	19,359,533
British Columbia .....	5	1,225	6,511,628	204,696	9,431,125	8,663,781	18,603,723
Canada .....	73	15,195	73,032,191	2,191,050	110,143,733	120,730,315	233,165,690

<sup>1</sup> See note to text.

Note: Value of shipments includes erected value for products which were fabricated and erected.

TABLE 2. Inventories:<sup>1</sup> Fabricated Structural Metal Industry, 1960

	Raw materials and supplies	Goods in process <sup>2</sup>	Finished goods of own manufacture	Total
	dollars			
Opening:				
Quebec .....	11,631,165	5,386,399	159,249	17,176,813
Ontario .....	19,432,112	9,908,037	226,939	29,567,088
Alberta .....	4,079,221	2,249,386	—	6,328,607
British Columbia .....	3,364,484	4,107,477	304,121	7,776,082
New Brunswick, Nova Scotia, Manitoba and Saskatchewan .....	4,720,485	1,876,081	236,190	6,832,756
<b>Canada .....</b>	<b>43,227,467</b>	<b>23,527,380</b>	<b>926,499</b>	<b>67,681,346</b>
Closing:				
Quebec .....	11,125,230	8,781,614	204,948	20,111,792
Ontario .....	16,254,733	8,842,555	381,908	25,479,196
Alberta .....	3,920,437	797,838	—	4,718,275
British Columbia .....	3,134,447	1,705,372	—	4,839,819
New Brunswick, Nova Scotia, Manitoba and Saskatchewan .....	6,017,918	2,453,742	239,051	8,710,711
<b>Canada .....</b>	<b>40,452,765</b>	<b>22,581,121</b>	<b>825,907</b>	<b>63,859,793</b>

<sup>1</sup> Book value of all manufacturing inventories owned and held at plant and plant warehouses.<sup>2</sup> Adjusted to allow for progress payments.

TABLE 3. Products Made in the Fabricated Structural Metal Industry, 1960

Item	Quantity shipped	Value of factory shipments <sup>1</sup>
		\$
Structural work:		
Bridges .....	ton 127,369	53,675,150
Buildings—Industrial .....	" 151,417	54,758,056
Residential, commercial and institutional .....	" 154,878	51,499,415
Other buildings .....	" 19,203	6,802,806
Transmission towers .....	" 12,832	4,056,275
Other structural steel .....	" 22,603	6,155,409
Metal tanks and vessels, custom fabricated and field erected:		
Bulk storage tanks .....	" 13,440	7,118,683
Pressure vessels and tanks including process vessels, tanks and kettles for refineries, etc. ....	" 1,491	1,180,212
Fabricated steel plate (factory assembled or formed and prepared for field erection) .....	—	25,672,508
Tanks (complete at factory) and cylinders:		
Tanks and vessels, pressure and vacuum (excluding hot water tanks):		
Liquefied petroleum gas tanks .....	No. 1,190	620,195
Other pressure and vacuum tanks and vessels .....	—	1,028,735
Storage and processing tanks .....	—	259,868
Boilers and parts .....	—	3,649,966
Heat exchangers .....	No. 134	934,304
Hoisting machinery and parts (except mine hoists) .....	—	3,117,046
Miscellaneous products:		
Fabricated bar joists .....	ton 19,040	5,660,514
Fabricated concrete reinforcing bar .....	" 27,473	5,122,872
Custom work and repairs .....	—	2,036,189
All other products .....	...	15,918,943
Work done in 1960 on products not completed at year-end .....	...	39,149,849
<b>Total of above .....</b>	<b>...</b>	<b>288,416,995</b>
Less value of work done in previous years on products completed during 1960 .....	—	55,251,305
<b>Total production for year .....</b>	<b>...</b>	<b>233,165,690</b>

<sup>1</sup> Value of shipments includes erected value for products which were fabricated and erected.

TABLE 4. Materials Used: Fabricated Structural Metal Industry, 1960

Material	Quantity	Cost at works
		\$
Steel (except alloy steel):		
Castings (rough and semi-finished received from foundry):		
Iron (gray and malleable) .....	ton 461	194,890
Steel .....	" 245	159,001
Bars .....	" 83,376	12,465,168
Plates (3/16 in. and thicker) .....	" 129,359	20,051,250
Sheets (under 3/16 in.):		
Black .....	" 3,866	622,367
Galvanized .....	" 4,493	712,112
Strips .....	" 11,303	1,592,103
Structural shapes .....	" 336,997	49,795,819
Wire .....	" 3,587	720,615
Alloy steel in all forms:		
Alloy steel (other than stainless and tool steel):		
Billets, bars and rods .....	..	68,174
Other shapes .....	..	1,275
Stainless—Billets, bars and rods .....	..	58,679
Other shapes .....	..	103,381
Tool steel (all types including high speed):		
Billets, bars and rods .....	..	28,250
Other shapes .....	..	—
Other iron and steel .....	...	2,333,330
Non-ferrous metals in all forms:		
Aluminum—Sheet .....	pounds 803	437
Other forms .....	" 558,000	180,414
Brass and bronze .....	" 60,590	31,431
Copper—Sheet .....	" 100	55
Lead .....	" 31,328	4,499
Zinc .....	" 1,234,508	152,504
Other non-ferrous metals .....	19,048	20,671
Other materials and supplies:		
Paints, oils and varnishes .....	...	773,814
Lumber .....	M bd. ft. 1,631	175,942
All other materials <sup>1</sup> .....	...	19,898,732
<b>Total materials and supplies .....</b>		<b>110,143,733</b>

<sup>1</sup> No detailed information on materials used was collected from firms generally reporting value of shipments of less than \$500,000. The total value of materials used by these firms was \$1,754,104 and this amount is included with "All other materials".

TABLE 5. Principal Statistics classified according to Type of Ownership: Fabricated Structural Metal Industry, 1957 and 1960

Type	Estab- lish- ments	Em- ployees	Salaries and wages	Cost of fuel and electricity	Cost at plant of materials used	Value of factory shipments
	number		dollars			
1957						
Partnerships .....	2	17,445	77,638,437	2,212,888	133,886,724	262,716,569
Incorporated companies .....	61					
<b>Totals .....</b>	<b>63</b>	<b>17,445</b>	<b>77,638,437</b>	<b>2,212,888</b>	<b>133,886,724</b>	<b>262,716,569</b>
1960						
Partnerships .....	1	15,195	73,032,191	2,191,050	110,143,733	233,165,690
Incorporated companies .....	72					
<b>Totals .....</b>	<b>73</b>	<b>15,195</b>	<b>73,032,191</b>	<b>2,191,050</b>	<b>110,143,733</b>	<b>233,165,690</b>



**TABLE 6. Principal Statistics grouped according to Selling Value of Factory Shipments:  
Fabricated Structural Metal Industry, 1957 and 1960**

Establishments reporting factory shipments	Estab- lish- ments	Em- ployees	Salaries and wages	Cost of fuel and electricity	Cost at plant of materials used	Value of factory shipments
	number		dollars			
1957						
\$ 50,000 to \$ 99,999 .....	3	55	202,652	8,521	262,974	438,946
100,000 " 199,999 .....	1					
200,000 " 499,999 .....	8	222	858,619	53,593	1,396,990	2,629,322
500,000 " 999,999 .....	9	537	2,216,918	76,082	3,195,180	6,365,716
1,000,000 " 4,999,999 .....	23	3,818	15,608,025	571,155	36,068,863	63,150,453
5,000,000 and over .....	19	12,813	58,752,223	1,503,537	92,962,717	190,132,132
Totals .....	63	17,445	77,638,437	2,212,888	133,886,724	262,716,569
1960						
\$ 50,000 to \$ 99,999 .....						
100,000 " 199,999 .....	4	63	228,339	10,437	357,401	678,706
200,000 " 499,999 .....	13	320	1,285,803	53,012	1,988,807	4,153,140
500,000 " 999,999 .....	10	539	2,197,176	100,541	4,565,244	7,238,217
1,000,000 " 4,999,999 .....	29	4,351	19,586,038	722,261	35,036,299	68,877,955
5,000,000 and over .....	17	9,922	49,734,835	1,304,799	68,195,982	152,217,672
Totals .....	73	15,195	73,032,191	2,191,050	110,143,733	233,165,690

**TABLE 7. Employees and their Earnings: Fabricated Structural Metal Industry, 1959 and 1960**

Province	Employees					Salaries and wages		
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	Total
	Male	Female	Male	Female				
1959	number					dollars		
Quebec .....	1, 122	253	3, 899	—	5, 274	8, 145, 120	16, 185, 426	24, 330, 546
Ontario .....	1, 299	305	4, 793	10	6, 407	8, 683, 809	22, 338, 736	31, 022, 545
Alberta .....	251	69	938	1	1, 259	1, 554, 299	3, 912, 544	5, 466, 843
British Columbia .....	291	57	927	2	1, 277	1, 932, 475	4, 450, 897	6, 383, 372
Other provinces .....	322	76	1, 131	—	1, 529	1, 913, 377	4, 948, 006	6, 861, 383
Canada .....	3, 285	760	11, 688	13	15, 746	22, 229, 080	51, 835, 609	74, 064, 689
1960								
Quebec .....	1, 017	229	3, 727	—	4, 973	8, 326, 131	15, 077, 122	23, 403, 253
Ontario .....	1, 231	325	4, 785	6	6, 347	8, 386, 743	22, 731, 002	31, 117, 745
Alberta .....	277	73	799	23	1, 172	1, 711, 148	3, 456, 448	5, 167, 596
British Columbia .....	296	58	869	2	1, 225	2, 010, 536	4, 501, 092	6, 511, 628
Other provinces .....	413	84	981	—	1, 478	2, 352, 535	4, 479, 434	6, 831, 969
Canada .....	3, 234	769	11, 161	31	15, 195	22, 787, 093	50, 245, 098	73, 032, 191

TABLE 8. Production Workers by Months: Fabricated Structural Metal Industry, 1960

Month	Establishments reporting monthly detail <sup>1</sup>		
	Male		Female
	In shops	On erection	
January .....	8,692	2,706	30
February .....	8,088	2,350	31
March .....	8,065	2,359	32
April .....	8,394	2,262	31
May .....	8,823	2,624	32
June .....	9,375	2,739	32
July .....	9,300	2,838	31
August .....	9,075	2,786	32
September .....	7,733	2,603	31
October .....	7,592	2,422	31
November .....	8,238	2,326	5
December .....	7,706	1,955	5
Average for establishments reporting monthly detail .....	10,921		27
Average estimated for small establishments <sup>2</sup> .....	239		2
Average for all establishments .....	11,160		29

<sup>1</sup> The number of production workers, by months, was collected only for establishments generally reporting value of shipments of \$500,000 and over.

<sup>2</sup> For establishments generally reporting value of shipments of less than \$500,000, no data on number of workers were collected. Average was estimated by using change in value of shipments to arrive at value of payroll which was then used in conjunction with estimated average earnings to arrive at number of workers.

TABLE 9. Fuel and Electricity Used: Fabricated Structural Metal Industry, 1960

Kind	Quantity	Cost at plant
		\$
1. Establishments reporting commodity detail: <sup>1</sup>		
Bituminous coal:		
(a) From Canadian mines .....	ton 6,880	79,296
(b) Imported .....	" 2,021	29,010
Anthracite coal .....	" 213	4,195
Lignite coal .....	" 2,250	13,552
Coke .....	" 5	128
Gasoline (including gasoline used in cars and trucks) .....	Imp. gal. 1,499,366	529,560
Fuel oil including kerosene or coal oil .....	" 3,677,562	422,284
Gas:		
(a) Liquefied petroleum gases .....	" 49,978	10,530
(b) Other manufactured gas .....	M cu. ft. 3,322	7,371
(c) Natural gas .....	" 236,545	162,204
Other fuel .....	—	36,879
Electricity purchased .....	kwh. 63,886,638	843,309
2. Estimate for establishments for which no data were collected: <sup>2</sup>	...	
Cost of fuel and electricity .....		52,732
3. All establishments:	...	
Total cost of fuel and electricity .....		2,191,050

<sup>1</sup> Establishments generally reporting value of shipments of \$500,000 and over.

<sup>2</sup> Establishments generally reporting value of shipments of less than \$500,000.



## List of Firms in the Fabricated Structural Metal Industry, 1960

Name of firm	Location of plant
<b>Nova Scotia:</b>	
Dominion Structural Steel Limited.....	Burnside
Robb Engineering Works Limited.....	51 La Planche St., Amherst
<b>New Brunswick:</b>	
Consolidated Steel Corporation Limited.....	55-65 Hanover St., Saint John
York Structural Steel Co. ....	957 Union St., Fredericton
<b>Quebec:</b>	
B & H Metal Industries Co. Ltd. ....	4650 Notre Dame St. E., Montreal 24
Canadian Structural Steel Works Co. Ltd. ....	4600-17th. Ave., Rosemount, Montreal
Central Quebec Steel Ltd. ....	1005 Père Daniel, Trois Rivières
Cobra Industries Inc. ....	45 Dorchester Sud, Quebec
Dominion Bridge Co. Ltd. ....	555 Notre Dame St., Lachine
Dominion Steel & Coal Corp. Ltd., Canadian Bridge Works .....	5901 Irwin St., Ville LaSalle
Dominion Structural Steel Limited.....	6894 Clanranald Ave., Cote St. Luc
Eastern Canada Steel & Iron Works Ltd. ....	Lesage Ave., Quebec
Harbour Steelworks Limited .....	845 Vieux Chemin, St. Sulpice
Leeds' Bridge and Iron Works Ltd. ....	175 Wanklyn St., Ville LaSalle
Les Structures d'Acier Saguenay Lac St. Jean Ltée .....	31 Racine, Chicoutimi
Lord & Company Ltd. ....	4700 Iberville St., Montreal
MacKinnon Structural Steel Company Limited .....	575 DesForges St., Sherbrooke
Pickard, Louis., & Co. Inc. ....	5585 Delaroche, Montreal
Quebec Structure & Metal Inc. ....	1845 St. Vallier, ouest, Quebec
Ross Structural Steel Ltd. ....	4900 Amiens, Montreal N.
Standard Structural Steel Ltd. ....	5330 Paré St., Montreal
<b>Ontario:</b>	
Anthes Steel Products Limited .....	3430 Dundas St. West, Toronto 9
Argus Steel Construction Limited .....	5 Brydon Drive, Rexdale
Brayshaws Steel Limited .....	184 Van Horne St., Port Arthur
Bridge & Tank Co. of Canada .....	Depew St., Hamilton
Central Bridge Company Limited.....	300 West St., Trenton
Cooksville Steel Limited .....	503 Dundas Hwy. E., Cooksville
Dominion Bridge Company Limited .....	1139 Shaw St., Toronto
Dominion Bridge Company Limited .....	Charlevoix St., Eastview
Dominion Bridge Co. Ltd. ....	177 Conmee Ave., Sault Ste. Marie
Dominion Steel & Coal Corp. Ltd. (Canadian Bridge Works).....	1219 Walker Rd., Windsor
Dominion Structural Steel Ltd., Toronto Division.....	Disco Road, Rexdale
Dominion Structural Steel Ltd. ....	Star Top Road, Ottawa
Frankel Steel Construction Limited .....	East Don Roadway, Toronto 8
Hepburn, John T., Limited .....	914-948 Dupont St., Toronto 4
Hopkins Steel Works Limited .....	2 Broadway Ave., Welland
Horton Steel Works Limited .....	40 Jennet St., Fort Erie
Imperial Steel Construction Limited .....	Trunk Road, Sault Ste. Marie
Leeds Bridge and Iron Works Limited.....	Crosby Road, Gananoque
London Steel Construction Co., Limited .....	48 Burslem St., London
McDonald Welding Limited .....	235 Speers Road, Oakville
Millard Electric Limited .....	Highway #7, Perth
Newman Structural Steel Ltd. ....	64 North St., St. Catharines

## List of Firms in the Fabricated Structural Metal Industry, 1960 - Concluded

Name of firm	Location of plant
<b>Ontario - Concluded:</b>	
Niagara Structural Steel Ltd. ....	Smith & Petrie Sts., St. Catharines
Noront Steel Construction Co. Limited .....	510 Whissell St., Sudbury
Oshawa Structural Steel Co. Limited .....	66 Russett Ave., Oshawa
Runnymede Steel Construction Ltd. ....	3370 Dundas St. W., Toronto
Scarboro Steel Works Limited .....	102 Manville Rd., Scarboro
Seaway Plate & Structural Steel Ltd. ....	65 Bruce St., Welland
Sparling Tank Limited .....	866 Lakeshore Road, Toronto 14
Standard Steel Construction Co. Division of United Steel Corporation Ltd. ....	Port Robinson
Supreme Steel & Engineering Co. Ltd., .....	104 Industrial Rd., Richmond Hill
Toronto Iron Works Limited, The, .....	629 Eastern Ave., Toronto 8
York Steel Construction Ltd. ....	75 Ingram Drive, Toronto 9
<b>Manitoba:</b>	
Bridge & Tank Western Limited .....	Sutherland & Maple, Winnipeg 2
Dominion Bridge Company, Limited .....	Dublin Ave., Winnipeg
Dominion Structural Steel Ltd., .....	560 Messier St., St. Boniface
Sutherland Steel Ltd. ....	123 Anabella St., Winnipeg 4
<b>Saskatchewan:</b>	
Dominion Bridge Co. Ltd., .....	Twelfth & Francis, Regina
Mid-West Steel Products Ltd., .....	2-46 High St. East, Mosse Jaw
Saskatchewan Steel Fabricators Ltd, .....	1050 St. John St., Regina
<b>Alberta:</b>	
Calgary Structural Steel Ltd. ....	223-53rd. Ave. S.E., Calgary
Carry, C.W. Ltd. ....	10530-103 st., Edmonton
Dominion Bridge Company Limited .....	803-24th Ave. S.E., Calgary
Dominion Bridge Company Limited .....	120th. St. & 107th. Ave., Edmonton
Horton Steel Works Limited .....	2902 Fourth Ave., Lethbridge
Steel-Weld Machine Co. Limited .....	9915-65th. Ave., Edmonton
Western Metal Fabricators Ltd. ....	1501-2nd Ave. S., Lethbridge
<b>British Columbia:</b>	
Allied Steel Fabricators Limited .....	700 Derwent Way Annacis Industrial Estate, New Westminster
Coast Steel Fabricators Ltd. ....	7950 Venture St., Burnaby 2
Dominion Bridge Co. Ltd. ....	2450 Boundary Road, Burnaby
Gilchrist Engineering & Steel Fabricators Ltd., .....	2525 Skeena, Vancouver 12
Western Bridge and Steel Fabricators Ltd. ....	145 W. 1st Ave., Vancouver 10





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