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ANNUAL



# BOILER AND PLATE WORKS

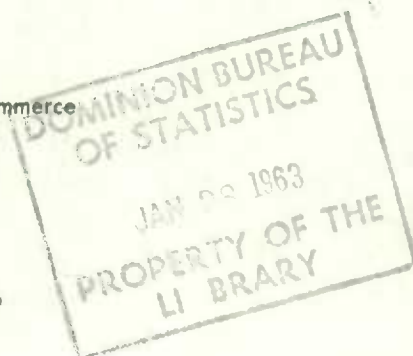
## 1960

First issue — Replaces 41-205 - Boiler and Plate Works Industry. (Discontinued). Due to significant changes in coverage and transfer of statistics to other annual industry reports, a new catalogue number has been allotted. See introductory text for details.

### 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

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.

<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*.

# BOILER AND PLATE WORKS

1960

Data presented in this report under the heading of Boiler and Plate Works 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 Boiler and Plate Works in the revised Standard Industrial Classification covers establishments primarily engaged in the manufacture of heating and power boilers except cast iron sectional heating boilers, storage tanks, pressure tanks, smokestacks, plate work and similar boiler shop products. Some establishments in this industry engage both in the fabrication of the product and its installation. In these cases the establishment is classified on the basis of its principal activity i.e. either fabricating or installing the product. Establishments installing mainly products of their own manufacture are considered as primarily engaged in fabrication, and are included in this industry, but those primarily engaged in erecting boilers or smokestacks from purchased parts are included in Industry No. 409—Other Construction. Establishments primarily engaged in fabricating and erecting large storage tanks which must be assembled at the site are included in Industry No. 302—Fabricated Structural Metal Industry.

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 purposes of comparability. A significant element in the shift in the case of Boiler and Plate Works was the transfer from this industry of establishments primarily engaged in

fabricating and erecting large storage tanks which must be assembled at the site. The revised series of statistics in accordance with the new SIC is presented in Table 1B.

There were 71 establishments classified to Boiler and Plate Works in 1960; there being 2 in Nova Scotia, 14 in Quebec, 34 in Ontario, 2 in Manitoba, 1 in Saskatchewan, 9 in Alberta and 9 in British Columbia. Employees in this industry numbered 4,709; salaries and wages totalled \$20,745,095; materials used in the manufacturing processes cost \$33,137,842 and factory shipments were valued at \$68,503,973.

The principal products were heating boilers, power boilers, pressure and vacuum tanks, storage and processing tanks and other products such as steel plate, structural shapes, bins and hoppers, smokestacks, steel pipe and other plate work. The total output value in 1960 for heating and power boilers from all industries was \$33,806,692—see Table 5.

**Note:** Due to lack of industry data, figures for value added by manufactures prior to 1954 were obtained by subtracting the cost of materials used, including fuel and electricity, from the total value of factory shipments. In 1954 and 1955 the "Value added" adjustment incorporated the increase or decrease to shipments values resulting from changes in the value of inventories over the period. For these two years, the adjustments that were made used only the change in finished product inventory owned by manufacturers. Beginning with 1956 the calculation of the "Value added" figure was further adjusted to take into account the "Goods in Process" as well as the finished goods held at plant or plant warehouse.

**TABLE 1 A. Principal Statistics: Boiler and Plate Works Industry, 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 plant	Cost at plant of materials used	Value added by manufacture <sup>1</sup>	Gross selling value of products <sup>1</sup>
	number				dollars		
1929 .....	37	2,157	3,043,768	163,137	5,091,406	4,751,735	10,006,278
1933 .....	50	1,572	1,742,257	168,784	1,553,690	2,722,782	4,445,256
1937 .....	54	2,936	3,694,393	226,991	4,872,296	6,112,214	11,211,501
1939 .....	41	2,491	3,150,560	217,111	3,673,208	4,909,487	8,799,806
1943 .....	38	5,469	11,086,571	547,891	16,270,970	20,547,071	37,365,932
1946 .....	44	5,042	9,974,544	511,512	9,791,684	16,407,706	26,710,902
1949 .....	56	6,642	17,980,051	803,646	20,156,193	33,602,254	54,562,093
1955 .....	101	8,378	31,218,918	1,203,833	41,388,579	51,813,530	93,486,695
1956 .....	103	9,004	34,384,694	1,451,024	56,998,458	53,533,046	110,697,040
1957 .....	102	9,226	38,274,873	1,531,273	62,647,293	57,326,097	121,959,107
1958 .....	103	7,949	34,535,930	1,451,727	53,265,040	52,986,057	108,888,919
1959 .....	99	7,666	33,403,400	1,462,128	54,463,002	53,553,524	107,881,063

See note to text.



**TABLE 1 B. Principal Statistics: Boiler and Plate Works, 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 plant	Cost of materials at plant	Value added by manufacture <sup>1</sup>	Selling value of factory shipments
	number			dollars			
<b>1957</b>							
Nova Scotia .....	2	} 1,772	6,699,900	254,661	15,058,020		26,280,694
Quebec .....	16						
Ontario .....	35	2,691	11,319,133	421,334	15,299,720		28,896,879
Manitoba .....	2	} 149	488,617	43,841	1,415,132		2,239,888
Saskatchewan .....	2						
Alberta .....	10	349	1,401,341	143,433	2,179,827		5,307,021
British Columbia .....	12	311	1,498,526	66,747	2,106,551		4,314,837
<b>Canada .....</b>	<b>79</b>	<b>5,272</b>	<b>21,407,517</b>	<b>930,016</b>	<b>36,059,250</b>		<b>67,039,319</b>
<b>1958</b>							
Nova Scotia .....	2	} 1,716	6,518,489	254,862	13,727,549		24,894,931
Quebec .....	16						
Ontario .....	34	2,448	10,384,115	374,043	12,307,683		28,561,483
Manitoba .....	2	} 84	276,423	16,122	556,831	2	957,685
Saskatchewan .....	1						
Alberta .....	10	316	1,310,104	123,743	2,307,979		4,941,125
British Columbia .....	11	183	837,129	46,798	1,133,605		2,654,961
<b>Canada .....</b>	<b>76</b>	<b>4,747</b>	<b>19,326,260</b>	<b>815,568</b>	<b>30,033,647</b>		<b>62,010,185</b>
<b>1959</b>							
Nova Scotia .....	2	} 1,735	6,981,046	234,172	16,395,190		27,295,494
Quebec .....	16						
Ontario .....	33	2,500	10,813,698	403,402	13,995,373		30,255,169
Manitoba .....	2	} 88	257,834	16,458	724,876		1,171,819
Saskatchewan .....	1						
Alberta .....	9	404	1,681,840	142,195	3,776,682		6,640,939
British Columbia .....	10	223	1,050,838	47,632	1,946,348		3,179,646
<b>Canada .....</b>	<b>73</b>	<b>4,950</b>	<b>20,785,256</b>	<b>843,859</b>	<b>36,838,469</b>		<b>68,543,067</b>
<b>1960</b>							
Nova Scotia .....	2	} 1,661	6,699,758	222,326	15,015,455	9,390,142	24,569,148
Quebec .....	14						
Ontario .....	34	2,445	11,362,908	389,768	14,141,831	19,902,142	35,608,883
Manitoba .....	2	} 77	277,262	15,257	473,148	545,271	1,043,832
Saskatchewan .....	1						
Alberta .....	9	364	1,577,688	104,786	2,409,685	3,015,323	5,262,253
British Columbia .....	9	162	827,479	41,536	1,097,723	888,479	2,019,857
<b>Canada .....</b>	<b>71</b>	<b>4,709</b>	<b>20,745,095</b>	<b>773,673</b>	<b>33,137,842</b>	<b>33,741,357</b>	<b>68,503,973</b>

<sup>1</sup> See note to text.<sup>2</sup> The changeover to the new classification has delayed the recompilation of "value added" figures for these years and same will not be available until the next issue of this report.

TABLE 2. Inventories:<sup>1</sup> Boiler and Plate Works, 1960

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
dollars				
Opening:				
Quebec and Nova Scotia .....	2,784,770	1,081,317	623,483	4,489,570
Ontario .....	2,737,196	6,878,755	728,311	10,344,262
Manitoba and Saskatchewan .....	279,406	54,639	33,134	367,179
Alberta .....	1,520,872	121,755	200,992	1,843,619
British Columbia .....	343,278	42,938	43,563	429,779
Canada .....	7,665,522	8,179,404	1,629,483	17,474,409
Closing:				
Quebec and Nova Scotia .....	2,191,483	1,098,262	665,313	3,955,058
Ontario .....	2,848,073	5,744,412	687,512	9,279,997
Manitoba and Saskatchewan .....	322,427	50,856	26,761	400,044
Alberta .....	1,209,872	288,623	301,665	1,800,160
British Columbia .....	276,967	42,467	51,915	371,349
Canada .....	6,848,822	7,224,620	1,733,166	15,806,608

<sup>1</sup> Book value of all manufacturing inventories owned and held at plant and plant warehouses.

TABLE 3. Factory Shipments: Boiler and Plate Works, 1960

Product	Quantity	Value of factory shipments
		\$
Heating boilers:		
Cast iron sectional heating boilers..... No.	250	53,732
Steel heating boilers .....	4,684	6,289,848
Power boilers, parts and equipment .....	—	20,907,595
Tanks (complete at factory) and cylinders:		
Pressure and vacuum tanks:		
Liquefied petroleum gas tanks..... No.	3,640	1,113,430
Other pressure and vacuum tanks .....	—	2,671,833
Storage and processing tanks:		
Bulk storage (including above ground, etc.) .....	—	4,612,645
Basement oil storage tanks .....	8,698	265,578
Other storage and processing tanks .....	—	3,602,746
Septic tanks, metal .....	4,253	276,709
Other tanks .....	—	720,096
Tank bodies for trucks .....	56	249,904
Fabricated products:		
Steel plate (cut, punched, etc.) .....	—	1,890,063
Structural shapes (cut, punched, etc.) .....	—	1,220,242
Miscellaneous steel plate work:		
Bins and hoppers .....	—	608,462
Smokestacks .....	—	219,399
Smoke breeching.....	—	396,474
Riveted and welded steel pipe — Stainless steel..... ton	954	1,721,026
Other steel .....	1,824	700,030
Other plate work .....	—	2,219,764
Machinery and parts .....	—	3,592,147
Stokers, mechanical and parts .....	—	737,067
Amount received for custom and repair work .....	—	5,224,093
All other products .....	—	9,211,090
Total .....	—	68,503,973

TABLE 4. Materials Used: Boiler and Plate Works, 1960

Material	Quantity	Cost at works
		\$
Castings (rough and semi-finished) received from foundry:		
Iron (gray and malleable) .....	ton 707	217,885
Steel .....	" 361	284,604
Pig iron .....	" 1,404	85,383
Steel (except alloy):		
Bars .....	" 3,742	589,320
Sheets:		
Black .....	" 16,398	2,354,749
Galvanized .....	" 438	98,663
Tin plate .....	" 167	33,582
Plates .....	" 37,038	5,970,610
Structural shapes .....	" 6,030	1,169,483
Wire .....	22	4,631
Alloy steel:		
Stainless:		
Billets, bars and rods .....	..	120,883
Other .....	..	1,444,584
Other alloy steel .....	..	17,485
Scrap iron and steel:		
Purchased .....	ton 1,187	49,610
Own make .....	" 148	4,204
Other iron and steel .....	..	1,721,861
Ferro-alloys .....	..	27,259
Non-ferrous metals, including scrap:		
Aluminum:		
Castings .....	pound 20,000	12,000
Sheet .....	" 100,853	64,963
Other forms .....	" 9,176	6,430
Brass and bronze .....	" 171,413	105,598
Copper:		
Sheet .....	" 169,718	107,389
Other forms .....	" 30,391	15,771
Nickel .....	" 13,351	11,354
Lead .....	" 4,773	765
Tin .....	" 62	62
Zinc .....	" 82,946	10,521
Babbitt metals and solders .....	" 7,257	8,158
Other non-ferrous metals .....	..	103,955
Other materials:		
Iron and steel pipe and fittings .....	..	2,600,292
Paints, oils and varnishes .....	..	112,827
Foundry coke .....	ton 600	17,710
Foundry sands .....	" 2,147	26,651
Plumbago and graphite .....	pound 20,166	2,240
Lumber .....	M ft. b.m. 898	104,043
Fireclay .....	ton 285	5,895
Cupola blocks and firebrick .....	..	41,789
Core oil .....	Imp. gal. 1,630	2,350
Shipping containers .....	..	69,185
All other materials <sup>1</sup> .....	..	15,513,098
<b>Total</b> .....	..	<b>33,137,842</b>

<sup>1</sup> No detailed information on materials used was collected from firms generally reporting value of shipments of less than \$200,000. The total value of materials used by these firms was \$879,995 and this amount is included in "All other materials".



TABLE 5. Factory Shipments of Heating and Power Boilers, 1959 and 1960, (from All Industries)

Type	1959		1960	
	Number of boilers	Value of factory shipments	Number of boilers	Value of factory shipments
		\$		\$
Heating boilers:				
Cast iron sectional heating boilers:				
(a) Under 775 sq. ft. ....	6,150	1,389,192	4,424	1,022,475
(b) 776-1,499 sq. ft. ....	2,316	935,910	1,710	689,247
(c) 1,500 sq. ft. and over ....	1,241	1,183,812	1,114	1,178,543
Steel heating boilers:				
(a) Under 112 sq. ft. ....	7,804	2,346,463	6,289	2,154,941
(b) 112-522 sq. ft. ....	1,584	3,479,813	1,420	3,800,819
(c) 523-1,245 sq. ft. ....	535	1,972,660	450	2,343,754
(d) 1,246 sq. ft. and over ....	42	314,318	82	435,638
Power boilers:				
Marine type ....	76	541,504	72	2,169,187
Water tube package boiler units <sup>1</sup> ....	112	8,264,443	86	1,139,041
Fire tube package boiler units ....	217	970,199	298	1,337,064
Fire tube boilers ....	51	614,037	56	431,333
Boilers, other, type not specified ....	226	12,402,124	146	17,104,650
<b>Totals</b> .....	<b>20,354</b>	<b>34,414,475</b>	<b>16,147</b>	<b>33,806,692</b>

<sup>1</sup> Totals for 1959 include units reported under "Boilers, other" in 1960.

TABLE 6. Principal Statistics classified according to Type of Ownership:  
Boiler and Plate Works, 1957 and 1960

Type	Estab- lish- ments	Em- ployees	Salaries and wages	Cost of fuel and electricity	Cost at plant of materials used	Selling value of factory shipments
	number		dollars			
<b>1957</b>						
Individual ownership .....	6	53	169,476	10,615	154,841	371,982
Partnerships .....	4	70	244,678	13,929	300,944	679,345
Incorporated companies .....	69	5,149	20,993,363	905,472	35,603,465	65,987,992
<b>Totals</b> .....	<b>79</b>	<b>5,272</b>	<b>21,407,517</b>	<b>930,016</b>	<b>36,059,250</b>	<b>67,039,319</b>
<b>1960</b>						
Individual ownership .....	7	36	138,762	7,557	140,234	358,858
Partnerships .....	4	33	122,223	4,868	129,004	347,388
Incorporated companies .....	60	4,640	20,484,110	761,248	32,868,604	67,797,727
<b>Totals</b> .....	<b>71</b>	<b>4,709</b>	<b>20,745,095</b>	<b>773,673</b>	<b>33,137,842</b>	<b>68,503,973</b>

**TABLE 7. Principal Statistics grouped according to Selling Value of Factory Shipments:  
Boiler and Plate Works, 1957 and 1960**

Establishments reporting a value of factory shipments	Establishments	Employees	Salaries and wages	Cost of fuel and electricity	Cost at plant of materials used	Selling value of factory shipments
	number					
<b>1957</b>						
\$ 10,000 to \$ 49,999 .....	4	21	79,185	4,544	35,750	91,138
50,000 " 99,999 .....	8	66	235,890	14,804	271,637	624,442
100,000 " 199,999 .....	10	139	541,382	44,296	829,106	1,566,251
200,000 " 499,999 .....	25	728	2,771,732	140,758	3,790,546	8,059,813
500,000 " 999,999 .....	17	870	4,053,149	195,058	6,278,840	12,197,324
1,000,000 " 4,999,999 .....	12	1,678	6,720,529	311,686	10,052,269	23,353,313
5,000,000 and over .....	3	1,616	6,243,437	218,870	14,801,102	21,147,038
Head offices .....	—	154	762,213	—	—	—
<b>Totals .....</b>	<b>79</b>	<b>5,272</b>	<b>21,407,517</b>	<b>930,016</b>	<b>36,059,250</b>	<b>67,039,319</b>
<b>1960</b>						
Under \$10,000 .....	2	13	28,266	3,626	34,663	59,737
\$ 10,000 to \$ 24,999 .....	3					
25,000 " 49,999 .....	3	10	25,706	1,214	51,834	92,563
50,000 " 99,999 .....	7	53	207,389	17,910	197,262	522,902
100,000 " 199,999 .....	13	179	775,211	44,646	901,310	1,990,549
200,000 " 499,999 .....	19	565	2,481,190	116,063	3,372,514	6,784,566
500,000 " 999,999 .....	6	299	1,512,143	52,074	1,523,265	4,124,367
1,000,000 " 4,999,999 .....	15	1,642	7,223,972	308,801	12,649,316	25,813,547
5,000,000 and over .....	3	1,772	7,599,465	229,339	14,407,678	29,115,742
Head offices .....	—	176	891,753	—	—	—
<b>Totals .....</b>	<b>71</b>	<b>4,709</b>	<b>20,745,095</b>	<b>773,673</b>	<b>33,137,842</b>	<b>68,503,973</b>

**TABLE 8. Employees and their Earnings: Boiler and Plate Works, 1959 and 1960**

Province	Employees					Earnings		
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	Total
	Male	Female	Male	Female				
<b>1959</b>								
Quebec .....	334	82	1,083	13	1,512	2,199,865	4,081,738	6,281,603
Ontario .....	633	201	1,655	11	2,500	3,985,222	6,828,476	10,813,698
Alberta .....	95	24	285	—	404	611,029	1,070,811	1,681,840
British Columbia .....	51	16	151	5	223	321,651	729,187	1,050,838
Other provinces .....	36	15	260	—	311	230,623	726,654	957,277
<b>Totals .....</b>	<b>1,149</b>	<b>338</b>	<b>3,434</b>	<b>29</b>	<b>4,950</b>	<b>7,348,390</b>	<b>13,436,866</b>	<b>20,785,256</b>
<b>1960</b>								
Quebec .....	336	80	984	16	1,416	2,127,708	3,827,117	5,954,825
Ontario .....	537	196	1,703	9	2,445	3,795,895	7,567,013	11,362,908
Alberta .....	112	27	223	2	364	657,887	919,801	1,577,688
British Columbia .....	43	9	110	—	162	287,776	539,703	827,479
Other provinces .....	43	17	260	2	322	183,544	838,651	1,022,195
<b>Totals .....</b>	<b>1,071</b>	<b>329</b>	<b>3,280</b>	<b>29</b>	<b>4,709</b>	<b>7,052,810</b>	<b>13,692,285</b>	<b>20,745,095</b>

TABLE 9. Production Workers, by Months: Boiler and Plate Works, 1960

Month	Establishments reporting monthly detail <sup>1</sup>		Establishments reporting quarterly detail <sup>2</sup>	
	Male	Female	Male	Female
January .....	2,615	27		
February .....	2,557	27		
March .....	2,595	27	426	2
April .....	2,657	27		
May .....	2,726	27		
June .....	2,776	27	425	2
July .....	2,830	27		
August .....	2,896	28		
September .....	2,956	27	427	1
October .....	2,861	26		
November .....	2,911	27		
December .....	2,745	27	335	3
Average for establishments reporting monthly detail .....			2,760	27
Average for establishments reporting quarterly detail .....			403	2
Average estimated for small establishments <sup>3</sup> .....			113	—
Average for all establishments .....			3,276	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> The number of production workers, by quarters, was collected only for establishments generally reporting value of shipments between \$200,000 and \$500,000.

<sup>3</sup> For establishments generally reporting value of shipments of less than \$200,000, 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 10. Fuel and Electricity Used: Boiler and Plate Works, 1960

Kind		Quantity	Cost at plant
			\$
1. Establishments reporting commodity detail: <sup>1</sup>			
Bituminous coal (a) From Canadian mines .....	ton	1,301	18,297
(b) Imported .....	"	7,689	80,681
Anthracite coal .....	"	51	1,020
Coke .....	"	19	536
Gasoline (including gasoline used in cars and trucks) .....	Imp. gal.	338,717	131,841
Fuel oil including kerosene or coal oil .....	"	883,011	115,314
Wood .....	cord	17	175
Gas (a) Liquefied petroleum gases .....	Imp. gal.	27,204	7,142
(b) Natural gas .....	M cu. ft.	69,186	26,328
Other fuel .....			2,685
Electricity purchased .....	kwh.	16,523,493	234,634
2. Establishments reporting group detail: <sup>2</sup>			
Cost of fuel .....		...	54,198
Cost of electricity .....		...	56,421
3. Estimate for establishments for which no data were collected: <sup>3</sup>			
Cost of fuel and electricity .....		...	44,401
4. All establishments:			
Total cost of fuel and electricity .....		...	773,673

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

<sup>2</sup> Establishments generally reporting value of shipments between \$200,000 and \$500,000.

<sup>3</sup> Establishments generally reporting value of shipments of less than \$200,000.

TABLE 11. Imports of Boilers and Parts, 1959 and 1960

Item	1959		1960	
	Quantity	Value	Quantity	Value
		\$		\$
Power boilers .....	..	1,705,964	..	1,149,976
Power boiler parts .....	...	1,841,146	...	1,685,842



## List of Reporting Firms: Boiler and Plate Works, 1960

Name of firm	Location of plant
<b>Nova Scotia:</b>	
Matheson, I. & Co. Ltd., .....	North Provost St., New Glasgow
Steel and Engine Products Ltd. ....	110 Water St., Liverpool
<b>Quebec:</b>	
Acme Welding and Service Co. Ltd. ....	840 Lafleur, Ville La Salle
Boilers Incorporated .....	932 St. George St., Montreal
Canadian Erectors Mfg. Ltd. ....	5441 Notre Dame St. W., Montreal
Combustion Engineering-Superheater Ltd. ....	731 Galt St., Sherbrooke
Douglas Bros. Ltd. ....	350 Decarie Blvd., St. Laurent
Drummond Welding & Steel Works Ltd. ....	2270 Joliette, Ville Jacques Cartier
Ferro Metal Ltd. ....	9500 St. Lawrence Blvd., Montreal
Latulippe, Michel, Enrg. ....	124 Dorchester St., Quebec
Machineries Mercier Ltd. ....	12, rue St. Laurent, Lévis
Northern Steel Industries Limited .....	5337 York St., Montreal
Stemac Ltd. ....	1100 Pacific Ave., Lachine
Vidal, H.C., Enrg. ....	515 Carillon St., Montreal
Voicano Limited .....	2020 Avenue St. Anne, St. Hyacinthe.
Weir, J. & R., Limited .....	33 Nazareth St., Montreal
<b>Ontario:</b>	
Allen Tank & Welding Co. Ltd. ....	750 Little Simcoe St., London
Arc Engineering .....	1 Adam St., Kitchener
Arcos Tank & Steel Limited .....	R.R. #1, Midland Ave., Agincourt
Aurora Tank & Welding .....	47 Temperance St., Aurora
Babcock-Wilcox & Goldie-McCulloch, Ltd. ....	Coronation Blvd., Galt
Bell, Robert, Industries Ltd. ....	Mill St., Seaforth
Bingley Steel Works Ltd. ....	40 William St., Cornwall
Boiler Feeder Co. Limited .....	Deseronto
Brantford Welding & Boiler Limited .....	25 Henry St., Brantford
Campbell Steel & Iron Works, Limited .....	855 Carling Ave., Ottawa
Chemical Equipment Fabricators .....	Rear 752 Warden Ave., Scarborough
Clark Kennedy & Co. Limited .....	931 Weston Rd., Toronto 9
Cleaver-Brooks of Canada Ltd., .....	Lorne Ave., Stratford
Cochram, W., Co., Ltd. ....	100 Walnut St., Paris
Courtland Welding Service Limited .....	Courtland
Dahmer Sheet Metals Limited .....	68 Shirley Ave., Kitchener
Diamalloy Manufacturing Co., Limited .....	2316 - 18 Gerrard St. E., Toronto 13
Domestic Tank & Equipment Ltd. ....	69 Comstock Rd., Scarborough
Essex Boiler Heating & Engineering Co. ....	1319 Mc Dougall, Windsor
Foster Wheeler, Limited .....	81 Eastchester Ave., St. Catharines
Hamilton Boiler Works .....	645-649 Main St. W., Hamilton
Hassan Steel Fabricators Limited .....	219-223 Ashland Ave., London
Ideal Welding Co. Limited .....	206 Duchess St., Toronto 2
Lloyd & Westwood Machinery Company .....	492 Gilbert Ave., Toronto
Lock, J.H., & Sons Ltd. ....	150 Perth Ave., Toronto 9
MacPherson, C.E. Limited .....	468 Rideau St., Kingston
Oakwood Iron Works Limited .....	644 Rogers Road, Toronto 13

## List of Reporting Firms: Boiler and Plate Works, 1960 — Concluded

Name of firm	Location of plant
<b>Ontario — Concluded:</b>	
O'Connor Fuel Tanks Ltd. ....	15 Bermondsey Rd., Toronto 16
Pendell Boiler, Limited .....	50 Bartlett Ave., Toronto 4
Plate & Structural Steel Ltd. ....	48 Abell St., Toronto 3
Port Colborne Iron Works, Limited .....	Fraser St., Port Colborne
Steel Fabricating & Welding, Limited .....	Brock & Hatt Sts., Dundas
Wilson Engineering & Fabricating, Ltd. ....	Fifty Rd., Winona
Woodstock Boiler Works .....	217 Russel St., Woodstock
<b>Manitoba:</b>	
Canadian Brown Steel Tank Co. Ltd. ....	20th. St. & Pacific Ave., Brandon
Stephenson, J.R., Ltd. ....	555 Madison St., St. James
<b>Saskatchewan:</b>	
The Saskatoon Boiler Manufacturing Co. Limited .....	2011 Quebec Ave., Saskatoon
<b>Alberta:</b>	
Black-Sivalls & Bryson, Ltd. ....	6203 - 104th St., Edmonton
Calgary Steel Tank, Limited .....	71st Ave. & MacLeod Trail, Calgary
Johnson Welding & Machine Shop Ltd. ....	50 Ave. S., Lloydminster
Liberty Boilers (Lethbridge) Ltd. ....	1402 - 2nd Ave. S., Lethbridge
McIntosh Equipment Ltd., .....	4650 - 2nd St. S.E., Calgary
Reliance Welding Works .....	9566 Jasper Ave., Edmonton
Steel Crafts, Alberta Ltd. ....	4202 MacLeod Trail, Calgary
T.I.W. Western Limited .....	12542 - 101st. St., Edmonton
Universal Industries Ltd. ....	5010 - 49th St., Lloydminster
<b>British Columbia:</b>	
Lothead-Haggarty Eng. & Mfg. Co. Ltd. ....	3904 Grant St., Burnaby 2
Mainland Boiler Works .....	496 Alexander St., Vancouver 4
Patterson Boiler Works, Limited .....	730 Alexander St., Vancouver
Sanford Engineering Ltd., .....	1823 Kingsway, Port Coquitlam
Steelweld Limited .....	1571 Main St., Vancouver 4
Welding Shop & Engineering Co. Ltd. ....	1600 Main St., Vancouver 4
Western Welding Works Ltd. ....	878 Powell St., Vancouver 4
Westminster Boiler & Tank Company .....	114 - 11th St., New Westminster
Wood, John, Company Limited .....	Granville Island, Vancouver 9







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