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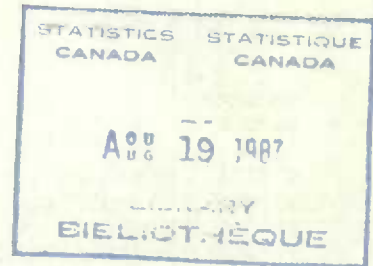
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# THE BOILERS AND PLATE WORK INDUSTRY

## 1958



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## PUBLICATIONS

The results of the annual Census of Industry are published by the Dominion Bureau of Statistics in a series of industry reports which are released each year as the compilations are completed. Reports for industries classified to the **Iron and Steel Products** Major Group are listed below, along with current and annual publications of related interest. Similar reports are issued for other industries. A complete catalogue of publications of the Bureau is available on request from the Information Services Division, Dominion Bureau of Statistics, Ottawa, or from the Queen's Printer, Ottawa.

**A — Annual**

**M — Monthly**

**S.C. — Special Compilation**

Catalogue number	Title	Price
41-201	Iron and Steel Products — General Review (A).....	.50
42-202	The Agricultural Implements Industry (A).....	.50
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## EXPLANATORY NOTES

This report is one in a series of about 130 publications which present the results of the 1958 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. An annual Census of Manufactures has been carried out by the Dominion Bureau of Statistics since 1916.

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 1958, 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, warehousing 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 of 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 Standard Industrial Classification Manual, prepared by the Dominion Bureau of Statistics, provides for 135 three-digit industries in the manufacturing sector, arranged in 17 major groups. Reporting establishments are classified or allotted to specific industries on the basis of the value of principal products made or shipped.

### Short Forms

Prior to 1949 all manufacturing firms, regardless of size, were required to complete a standard form annually covering all census details, but for later years an effort was made to ease the reporting burden for smaller firms which usually do not maintain regular records in the required detail. A modified or short form was introduced in 1949 asking for the total value of shipments only, or in industries with a large number of small firms, for total value of shipments and quantities and values of a few principal products. Using the ratio of value of shipments in the current year to value of shipments in the base year, 1948, estimates of other census data were made for each plant for inclusion in the regular compilations. In general, the cut-off point for short forms was set at \$50,000 gross value of shipments annually, but there were lower cut-offs for a number of industries in which the small firms accounted for a larger share of total shipments. About 40 per cent of the total number of establishments reported on the modified or short form. They accounted for less than 3 per cent of the total value. In 1958, to establish a new base year, the small firms were again asked to report data on employees, salaries and wages, and other principal statistics together with some detail on material and products.

<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*.

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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.
- <sup>p</sup> preliminary figures.



# THE BOILERS AND PLATE WORK INDUSTRY

1958

Factory shipments by the 103 establishments in the Boilers and Plate Work Industry were valued at \$108,888,919 in 1958. Forty-nine of these works were in Ontario, 22 in Quebec, 15 in British Columbia, 12 in Alberta, 3 in Manitoba and 1 each in Saskatchewan and Nova Scotia. These concerns give employment to 7,949 people who were paid \$34,535,930 in salaries and wages. Materials used in manufacturing processes cost \$53,265,040 and expenditures for fuel and electricity amounted to \$1,451,727.

Tables 1 to 4 and Tables 7 to 13 of this report deal with the Boilers and Plate Work Industry which covers the operations of the establishments that made as their chief products such articles as heating and power boilers, heating radiators, tanks and miscellaneous products from steel plate, such as bins, hoppers, smokestacks, etc. Tables 5 and 6 give the totals for Canada, from all industries, covering the production of boilers and radiators. The total output value in 1958 for heating and power boilers was \$27,518,710 and for heating radiators \$12,223,348.

**TABLE 1. Principal Statistics of the Boilers and Plate Work Industry, Significant Years 1929-58 and by Provinces, 1957 and 1958**

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
1954 .....	89	8,127	30,547,703	1,160,741	35,858,003	50,441,898	87,623,775
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
<b>1957</b>							
Nova Scotia .....	1	2,211	8,490,585	336,553	16,609,080	13,822,939	30,793,292
Quebec .....	21						
Ontario .....	48	5,745	24,193,029	886,793	35,905,387	35,298,868	72,120,140
Alberta .....	12	384	1,513,011	149,941	3,337,721	2,540,782	6,908,201
British Columbia .....	16	737	3,575,040	116,451	5,420,045	4,974,277	9,971,156
Manitoba .....	3	149	476,208	41,535	1,375,060	689,231	2,166,318
Saskatchewan .....	1						
<b>Canada .....</b>	<b>102</b>	<b>9,226</b>	<b>38,247,873</b>	<b>1,531,273</b>	<b>62,647,293</b>	<b>57,326,097</b>	<b>121,959,107</b>
<b>1958</b>							
Nova Scotia .....	1	2,109	8,239,548	322,592	14,843,119	14,367,010	29,082,053
Quebec .....	22						
Ontario .....	49	4,888	22,145,644	889,328	30,629,256	33,354,912	66,086,449
Alberta .....	12	351	1,445,329	131,286	3,195,890	3,043,600	6,247,931
British Columbia .....	15	497	2,373,457	90,503	3,925,105	1,734,253	6,285,204
Manitoba .....	3	104	331,952	18,018	671,670	486,282	1,187,282
Saskatchewan .....	1						
<b>Canada .....</b>	<b>103</b>	<b>7,949</b>	<b>34,535,930</b>	<b>1,451,727</b>	<b>53,265,040</b>	<b>52,986,057</b>	<b>108,888,919</b>

<sup>1</sup> Due to lack of inventory data, figures for value added by manufacture 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 manufacturer. 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.

**Note:** Profits or losses cannot be calculated from the above figures as data are not available for general expense items, such as interest, rent, depreciation, taxes, insurance, advertising, etc.

TABLE 2. Inventories,<sup>1</sup> 1958

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
	dollars			
Opening:				
Quebec and Nova Scotia .....	3,477,720	1,224,724	1,804,772	6,507,216
Ontario .....	8,956,264	8,236,830	1,807,347	19,000,441
Manitoba and Saskatchewan .....	305,130	55,377	58,819	419,326
Alberta .....	2,639,806	241,327	230,656	3,111,789
British Columbia .....	1,210,099	1,880,493	60,122	3,150,715
<b>Canada .....</b>	<b>16,589,019</b>	<b>11,638,751</b>	<b>3,961,716</b>	<b>32,189,486</b>
Closing:				
Quebec and Nova Scotia .....	3,002,910	1,798,876	1,681,288	6,483,074
Ontario .....	7,826,955	7,064,365	1,766,859	16,658,179
Manitoba and Saskatchewan .....	293,302	70,199	32,685	396,186
Alberta .....	2,179,586	358,846	235,982	2,774,414
British Columbia .....	980,493	1,288,865	116,407	2,385,765
<b>Canada .....</b>	<b>14,283,246</b>	<b>10,581,151</b>	<b>3,833,221</b>	<b>28,697,618</b>

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

Note: Beginning with 1954, information on the value of year-end inventory holdings at plant and plant warehouses is being collected as part of the annual Census of Industry. These data were formerly collected by a separate survey. The summarized results for the Boilers and Plate Work Industry for the year under review are shown in the above table.

The opening inventory for 1958 may not necessarily agree with the closing inventory for 1957 because of the addition of new plants, the transfer of plants to other industries and plants going out of business, etc. However, the value added figures for the previous year have not been recalculated to allow for the changes mentioned above.

TABLE 3. Products Made in the Boilers and Plate Work Industry, 1957 and 1958

Product	1957		1958	
	Quantity	Value of factory shipments	Quantity	Value of factory shipments
		\$		\$
Heating boilers:				
Cast iron sectional heating boilers:				
(a) Under 775 sq. ft. .... No.	6,101	941,685	5,473	1,115,010
(b) 776-1,499 sq. ft. .... "	1,887	812,057	1,875	727,844
(c) 1,500 sq. ft. and over .... "	1,056	1,031,852	1,027	1,085,961
Steel heating boilers:				
(a) Under 112 sq. ft. (heating surface) .... "	2,903	510,207	3,664	722,719
(b) 112-522 sq. ft. (" " ) .... "	393	756,926	331	689,522
(c) 573-1,245 sq. ft. (" " ) .... "	185	650,738	169	580,076
(d) 1,362 sq. ft. & over (" " ) .... "	18	110,729	31	393,139



TABLE 3. Products Made in the Boilers and Plate Work Industry, 1957 and 1958 — Concluded

Product	1957		1958	
	Quantity	Value of factory shipments	Quantity	Value of factory shipments
		\$		\$
Power boilers and equipment:				
Water tube package boiler units .....	116	3,616,242	66	4,243,178
Fire tube package boiler units .....	24	97,123	33	251,033
Marine type boilers, fire tube and water tube ..	46	304,065	136	505,942
Fire tube boilers, other .....	12	56,617	5	28,815
All other power boilers .....	116	7,636,603	43	8,630,751
Boiler parts, including drums, water walls, repairs, etc. ....	...	1,569,052	...	1,988,731
Radiators, heating:				
Steel and cast iron, standing ..... sq. ft. }	4,206,307	3,095,496	4,249,176	3,277,961
Steel and cast iron, concealed ..... "				
Fabricated products:				
Steel plate (cut, punched, shaped or other wise fabricated for assembly on job) .....	..	26,453,467	..	15,320,207
Structural shapes (cut, punched, shaped or other wise fabricated for assembly on job) .....	..	1,925,822	..	1,669,726
Miscellaneous plate work:				
Bins and hoppers .....	...	953,214	...	468,329
Smokestack .....	...	382,919	...	230,152
Smoke Breeching .....	...	333,507	...	464,816
Rivetted and welded steel pipe — Stainless ..... ton	993	2,503,132	740	1,232,451
Other steel..... "	2,480	873,015	2,951	944,405
Other plate work .....	..	7,093,694	..	5,499,259
Tanks (complete at factory) and cylinders:				
Gas cylinder, metal (L.P. gas, etc.) .....	..	526,634	..	705,630
Boiler drums .....	..	10,000	..	23,444
Pressure and vacuum tanks .....	..	6,025,432	..	3,319,392
Steel septic .....	..	442,432	..	606,629
Storage and processing tanks .....	..	13,566,292	..	10,353,557
Tanks, other .....	..	1,511,681	..	2,417,006
Pumps, all kinds, and parts .....	..	1,239,116	..	1,127,652
Stokers, mechanical, and parts .....	..	1,026,777	..	696,383
Furnaces, warm air .....	No. 701	64,307	572	128,920
Receipts from custom work and repairs .....	...	6,933,548	...	6,160,517
All other products <sup>1</sup> .....	...	28,880,520	...	33,079,762
<b>Totals</b> .....	...	<b>121,959,107</b>	...	<b>108,888,919</b>

<sup>1</sup> Includes data for items made by less than 3 firms, such as cast iron soil pipe, air compressors, pulverizers, etc.

**Note:** Data in this table are for the Boilers and Plate Work Industry, which includes only the manufacturers who made boilers, tanks, etc., as their main products. Figures for the individual commodities may not represent the total output in Canada as these articles may have been made also in other industries. (See Tables 5 and 6 for totals from all industries).

TABLE 4. Materials Used in the Boilers and Plate Work Industry, 1957 and 1958

Material		1957		1958	
		Quantity	Cost at works	Quantity	Cost at works
			\$		c
Castings (rough and semi-finished) received from foundry:					
Iron (gray and malleable) .....	ton	2,717	688,932	1,352	434,930
Steel .....	"	4,067	1,587,941	2,461	1,352,754
Pig iron .....	"	16,322	1,034,567	15,490	949,553
Steel (except alloy):					
Bars and rods .....	"	7,251	1,392,998	4,973	866,968
Sheets:					
Black .....	"	21,032	3,146,543	21,048	3,062,676
Galvanized .....	"	1,261	210,853	632	137,747
Tin plate .....	"	6	1,430	4	550
Plates .....	"	119,170	19,737,212	94,864	16,072,716
Structural shapes .....	"	20,973	3,369,125	12,474	2,178,544
Boiler tubes .....	..	..	3,439,471	..	..
Wire .....	..	..	9,344	..	45,209
Alloy steel:					
Stainless:					
Billets, bars and rods .....	..	..	159,747	..	31,574
Other .....	..	..	2,695,122	..	1,509,805
Other alloy steel .....	..	..	729,570	..	385,155
Scrap iron and steel:					
Purchased .....	ton	13,664	607,556	14,911	531,928
Own make .....	"	677	26,574	1,056	39,260
Other iron and steel .....	..	..	2,354,525	..	2,809,124
Ferro-alloys .....	..	..	51,265	..	33,898
Non-ferrous metals, including scrap:					
Aluminum:					
Castings .....	pound	20,141	13,016	15,205	9,531
Sheet .....	"	254,528	133,359	157,588	78,920
Other forms .....	"	104,931	53,176	153,131	69,881
Brass and bronze .....	"	220,129	124,576	181,577	104,754
Copper:					
Sheet .....	"	93,194	49,747	103,730	77,195
Other forms .....	"	24,763	14,519	152,052	80,338
Nickel .....	"	9,765	6,256	10,803	7,836
Lead .....	"	77,489	17,433	94,440	21,250
Tin .....	"	..	..	52	52
Zinc .....	"	500	150	1,300	424
Babbitt metals and solders .....	"	26,329	18,566	17,593	10,300
Other non-ferrous metals .....	...	...	43,961	...	63,256
Other materials:					
Iron and steel pipe and fittings .....	..	..	2,210,551	..	2,830,788
Paints, oils and varnishes .....	..	..	189,404	..	184,047
Foundry coke .....	ton	7,647	251,189	7,046	231,646
Foundry sands .....	"	14,586	88,870	13,385	72,575
Plumbago and graphite .....	pound	12,064	1,764	13,707	1,618
Lumber .....	M ft. b.m.	2,185	243,415	1,317	172,577
Fireclay .....	ton	1,264	35,760	1,522	36,666
Cupola blocks and firebrick .....	..	..	15,881	..	18,507
Core oil .....	Imp. gal.	27,439	33,828	25,335	31,848
Shipping containers .....	..	..	151,071	..	111,710
All other materials .....	..	..	17,708,026	..	18,608,930
<b>Totals</b> .....	...	...	<b>62,647,293</b>	...	<b>53,265,040</b>



TABLE 5. Factory Shipments of Heating and Power Boilers, 1957 and 1958 (from All Industries)

Type	1957		1958	
	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. ....	6,727	1,066,634	6,437	1,329,900
(b) 776-1,499 sq. ft. ....	2,285	956,154	2,309	887,968
(c) 1,500 sq. ft. and over .....	1,261	1,154,502	1,237	1,212,918
Steel heating boilers:				
(a) Under 112 sq. ft. ....	6,672	1,404,500	7,019	1,941,847
(b) 112-522 sq. ft. ....	1,003	1,867,853	1,646	3,019,173
(c) 573-1,245 sq. ft. ....	718	2,099,967	396	1,620,906
(d) 1,362 sq. ft. and over .....	99	929,204	53	665,763
Power boilers:				
Marine type .....	51	313,465	283	1,149,205
Water tube package boiler units .....	129	3,805,586	102	4,519,790
Fire tube package boiler units .....	201	964,876	60	531,229
Fire tube boilers .....	31	207,082	42	290,694
Boilers, type not specified .....	..	9,103,086	..	10,350,217
<b>Totals .....</b>	<b>...</b>	<b>23,872,909</b>	<b>...</b>	<b>27,518,710</b>

TABLE 6. Total Production of Heating Radiators, 1957 and 1958 (from All Industries)

Kind	1957		1958	
	Equivalent direct radiation sq. ft.	Value of factory shipments \$	Equivalent direct radiation sq. ft.	Value of factory shipments \$
Standing type, cast iron and pressed steel (excluding tube and fin type) .....	3,692,980	2,791,111	3,209,793	2,319,521
Baseboard type, cast iron, pressed steel and other fab- ricated metal .....	4,340,047	3,317,150	6,480,608	4,572,077
Concealed type, cast iron, pressed steel and other fab- ricated metal .....	7,115,868	4,779,040	6,497,917	5,331,750
<b>Totals .....</b>	<b>15,148,895</b>	<b>10,887,301</b>	<b>16,188,318</b>	<b>12,223,348</b>

TABLE 7. Principal Statistics of the Boilers and Plate Work Industry, classified according to Type of Ownership, 1957 and 1958

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
<b>1957</b>	number		dollars			
Individual ownership .....	10	80	248,471	17,707	304,038	714,546
Partnerships .....	6	81	282,178	15,634	547,817	995,786
Incorporated companies .....	86	9,065	37,717,224	1,497,932	61,795,438	120,248,775
<b>Totals .....</b>	<b>102</b>	<b>9,226</b>	<b>38,247,873</b>	<b>1,531,273</b>	<b>62,647,293</b>	<b>121,959,107</b>
<b>1958</b>						
Individual ownership .....	10	68	235,215	16,386	275,018	612,230
Partnerships .....	6	98	294,338	19,202	558,222	1,020,149
Incorporated companies .....	87	7,783	34,006,377	1,416,139	52,431,800	107,256,540
<b>Totals .....</b>	<b>103</b>	<b>7,949</b>	<b>34,535,930</b>	<b>1,451,727</b>	<b>53,265,040</b>	<b>108,888,919</b>

**TABLE 8. Principal Statistics of the Boilers and Plate Work Industry, grouped according to Value of Factory Shipments, 1957 and 1958**

Establishments reporting a value of factory shipments	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>						
Under \$10,000 .....	4	21				
\$10,000 to \$24,999 .....	1		67,065	4,530	37,593	89,342
\$25,000 " \$49,999 .....	1					
\$50,000 " \$99,999 .....	10		267,703	18,590	318,642	770,391
\$100,000 " \$199,999 .....	16	224	811,527	65,468	1,241,775	2,445,133
\$200,000 " \$499,999 .....	28	779	2,957,587	152,263	4,531,376	9,125,075
\$500,000 " \$999,999 .....	18	937	4,291,540	190,105	6,530,531	12,723,919
\$1,000,000 " \$4,999,999 .....	15	1,876	7,459,220	345,287	11,497,451	26,272,002
\$5,000,000 and over .....	9	5,155	21,631,016	755,030	38,489,925	70,533,245
Head offices .....	—	154	762,213	—	—	—
<b>Totals .....</b>	<b>102</b>	<b>9,226</b>	<b>38,247,873</b>	<b>1,531,273</b>	<b>62,647,293</b>	<b>121,959,107</b>
<b>1958</b>						
Under \$10,000 .....	4	7				
\$10,000 to \$24,999 .....	1		21,176	3,740	9,183	41,101
\$25,000 " \$49,999 .....	4		115,434	7,803	60,776	165,497
\$50,000 " \$99,999 .....	13		394,898	33,568	440,118	984,186
\$100,000 " \$199,999 .....	18	231	874,633	65,543	1,342,932	2,625,821
\$200,000 " \$499,999 .....	26	635	2,697,896	124,369	3,635,080	7,824,520
\$500,000 " \$999,999 .....	16	848	3,167,999	169,804	5,662,978	11,860,237
\$1,000,000 " \$4,999,999 .....	15	2,336	10,332,776	399,013	13,579,425	30,124,154
\$5,000,000 and over .....	6	3,590	16,084,817	647,887	28,534,548	55,263,403
Head offices .....	—	159	846,301	—	—	—
<b>Totals .....</b>	<b>103</b>	<b>7,949</b>	<b>34,535,930</b>	<b>1,451,727</b>	<b>53,265,040</b>	<b>108,888,919</b>

**TABLE 9. Employees and their Earnings in the Boilers and Plate Work Industry, by Provinces, 1957 and 1958**

Province	Employees					Earnings		
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	Total
	Male	Female	Male	Female				
	number					dollars		
1957								
Quebec.....	379	102	1,547	3	2,031	2,218,757	5,766,576	7,985,333
Ontario.....	1,370	452	3,902	21	5,745	8,113,971	16,079,058	24,193,029
Alberta.....	61	22	300	1	384	343,345	1,169,666	1,513,011
British Columbia.....	118	34	582	3	737	751,580	2,823,460	3,575,040
Other provinces.....	36	15	278	—	329	200,270	781,190	981,460
Totals.....	1,964	625	6,609	28	9,226	11,627,923	26,619,950	38,247,873
1958								
Quebec.....	405	99	1,438	16	1,958	2,335,704	5,413,483	7,749,187
Ontario.....	1,210	361	3,302	15	4,888	8,190,996	13,954,648	22,145,644
Alberta.....	84	22	245	—	351	502,595	942,734	1,445,329
British Columbia.....	97	32	364	4	497	636,787	1,736,670	2,373,457
Other provinces.....	30	12	213	—	255	165,688	656,625	822,313
Totals.....	1,826	526	5,562	35	7,949	11,831,770	22,704,160	34,535,930



TABLE 10. Production Workers by Months, 1958

	Establishments reporting monthly detail <sup>1</sup>		Establishments not reporting monthly detail <sup>1</sup>		All establishments		
	Male	Female	Male	Female	Male	Female	Total
	number						
January .....	5,701	33					
February .....	5,442	34					
March .....	5,274	35					
April .....	5,584	37					
May .....	5,708	37	64	—	5,772	37	5,809
June .....	5,614	34					
July .....	5,527	33					
August .....	5,526	32					
September .....	5,579	33					
October .....	5,548	37					
November .....	5,347	35					
December .....	5,142	36					
Average <sup>2</sup> .....					5,562	35	5,597

<sup>1</sup> The number of production workers by months was generally collected only for establishments reporting value of shipments of \$100,000 and over. For smaller establishments, only the number employed during the last pay period of May, 1958, was collected.

<sup>2</sup> The average for establishments generally reporting shipments of less than \$100,000 was estimated by using average annual earnings data from the large establishments in conjunction with reported payrolls for the small establishments.

TABLE 11. Capital and Repair Expenditures in the Boilers and Plate Work Industry, 1954-58

Year	Capital expenditures		Sub-total	Repair and maintenance expenditures		Sub-total	Total capital and repair expenditures
	Con-struction	Machinery and equipment		Con-struction	Machinery and equipment		
	thousands of dollars						
1954 .....	990	2,116	3,106	354	1,624	1,978	5,084
1955 .....	1,774	2,321	4,095	272	1,897	2,169	6,264
1956 .....	2,117	3,021	5,138	322	1,810	2,132	7,270
1957 .....	3,222	3,908	7,130	539	2,421	2,960	10,090
1958 <sup>P</sup> .....	1,171	3,093	4,264	305	1,836	2,140	6,405

**TABLE 12. Fuel and Electricity used in Boilers, and Plate Work Industry, 1958**

Kind		Quantity	Cost at plant
			\$
1. Establishments reporting commodity detail: <sup>1</sup>			
Bituminous coal (a) From Canadian mines .....	ton	4,380	54,018
(b) Imported .....	"	6,000	71,071
Sub-bituminous coal (from Alberta mines only).....		—	—
Anthracite coal .....	ton	8,637	94,235
Coke (for fuel only) .....	"	211	4,949
Gasoline (including gasoline used in cars and trucks) .....	Imp. gal.	693,988	261,023
Fuel oil including kerosene or coal oil .....	"	1,995,452	260,837
Wood (cords of 128 cubic feet of piled wood) .....	cord	26	292
Gas (a) Liquefied petroleum gases (propane, etc.) .....	Imp. gal.	119,485	30,062
(b) Other manufactured gas .....	M cu. ft.	121	205
(c) Natural gas .....	"	82,390	49,737
Other fuel .....		—	7,814
Electricity purchased .....	kwh.	38,752,506	591,946
Steam purchased .....		..	6,102
<b>Total</b> .....		...	<b>1,432,291</b>
2. Establishments not reporting commodity detail: <sup>1</sup>			
Total cost of fuel .....		...	10,350
Electricity purchased .....		...	9,086
3. All establishments:			
Total cost of fuel .....		...	850,695
Total cost of electricity .....		...	601,032
Total cost of fuel and electricity .....		...	1,451,727

<sup>1</sup> Data on the quantity and value of the different kinds of fuel, and on the quantity of electricity purchased were generally not collected for establishments reporting value of shipments of less than \$100,000. Only the total cost of fuel and the total cost of electricity were collected for these establishments.

**TABLE 13. Total Horsepower Rating of Power Equipment in Use or Available for Use in the Boilers and Plate Work Industry at the End of 1958**

Type of equipment	Driving generators	Not driving generators
	horsepower	
A. Prime movers:		
Steam engines .....	750	190
Steam turbines .....	—	100
Diesel engines .....	2,121	165
Gasoline, gas and oil engines, other than diesel engines .....	7,605	1,377
Totals .....	10,476	1,832
B. Electric motors (one-quarter horsepower and over) .....	—	50,676



## List of Firms in the Boilers and Plate Work Industry, 1958

Name of firm	Location of plant
<b>Nova Scotia:</b>	
Steel and Engine Products Ltd. ....	Liverpool
<b>Quebec:</b>	
Acme Welding and Service Co. Ltd. ....	840 Lafleur, Ville La Salle
Argon Electric Welding Co. Ltd. ....	65 St. Joseph St., Lachine, P.Q.
Berwill Boiler and Steel Works Ltd. ....	8651-9th Ave., Ville St. Michel
Boilers Incorporated. ....	932 St. George St., Montreal
Brock Steel Corp. Ltd. ....	4305 Iberville St., Montreal
C.D.N. Tank Erectors Limited ....	5441 Notre Dame St., W., Montreal, P.Q.
Canadian Erectors Mfg. Ltd. ....	5441 Notre Dame St. W., Montreal
Combustion Engineering-Superheater Ltd. ....	540 Dominion Square Bldg., Montreal
Dominion Welding Engineering Co. Ltd. ....	6898 Notre Dame St. E., Montreal
Douglas Bros. Ltd. ....	4090 Namur St., Montreal
Drummond Welding & Steel Works Ltd. ....	2270 Joliette, Ville Jaques Cartier
Ferro Metal Ltd. ....	9500 St. Lawrence Blvd., Montreal
Latulippe, Michel, Enrg. ....	124 Dorchester St., Quebec
Les Entreprises Raoul Auger Ltée ....	8456 9th Ave., Montreal
Machineries Mercier Ltd. ....	12, rue St. Laurent, Lévis
McRob Industries Co. Reg'd. ....	5203-8th. Ave., Rosemount, Montreal, P.Q.
Northern Steel Industries Limited ....	5337 York St., Montreal
Radiateur Plessis, Limitée ....	Plessisville
St. Maurice Industries Co. ....	Cap-de-la-Madeleine
Vidal, H.C., Enrg. ....	515 Carillon St., Montreal
Warden King, Limited. ....	2104 Bennett Ave., Montreal
Weir, J. & R., Limited ....	33 Nazareth St., Montreal
<b>Ontario:</b>	
Aerofin Corp. (Canada) Limited ....	Bath Road & Day St., Kingston
Aga Steel Radiators of Canada Ltd. ....	Ajax
Allen Tank & Welding Co. Ltd. ....	750 Little Simcoe St., London
American Standard Products (Canada) Limited ....	1201 Dupont St., Toronto 4
Aurora Tank & Welding ....	47 Temperance St., Aurora
Babcock-Wilcox & Goldie-McCulloch, Ltd. ....	Cornation Blvd., Galt
Bell, Robert, Industries Ltd. ....	Seaforth
Bingley Steel Works Ltd. ....	40 William St., Cornwall
Brantford Welding & Boiler Limited ....	25 Henry St., Brantford
Campbell Steel & Iron Works, Limited ....	855 Carling Ave., Ottawa
Cockram, W., Co., Ltd. ....	Paris
Courtland Welding Service Limited ....	Courtland
Diamalloy Manufacturing Limited ....	2316-18 Gerrard St. E., Toronto 13
Dominion Welding Engineering Company Limited ....	6898 Notre Dame St. E., Montreal 5
Domestic Tank & Equipment Ltd. ....	69 Comstock Rd., Scarborough
Elgee Products Ltd. ....	410 Hopewell Ave., Toronto 10, Ont.
Embro Welding & Steel Fabrication ....	Embro
Essex Boiler & Heating Engineering Co. ....	1319 Mc Dougall, Windsor
Feiertag, Eddy, Welding ....	27 Hibbard St., Ridgeway.
Ferro-metal (Ottawa) Limited ....	100 Hymas Road, Scarborough
Foster Wheeler, Limited ....	81 Eastchester Ave., St. Catharines
Glitsch, Fritz W., & Sons (Canada) Ltd. ....	18 Dallas Uxbridge
Hamilton Boiler Works ....	645-649 Main St. W., Hamilton
Hassan Steel Fabricators Limited ....	223 Ashland Ave., London
Horton Steel Works, Limited ....	Jennet St., Fort Erie
Ideal Welding Co. Limited ....	206 Duchess St., Toronto 2
Imperial Steel Construction Limited ....	Trunk Road, Sault Ste. Marie
Inglis, John, Co., Limited ....	14 Strachan Ave., Toronto 3
John Thompson Leonard Ltd. ....	381 York St., London
Lloyd & Westwood Machinery Company ....	888 Dupont St., Toronto 4
Lock, J.H., & Sons Ltd. ....	150 Perth Ave., Toronto 9
MacDonald, John, & Co. ....	1456 Victoria Park Ave., Toronto 16
MacPherson, C.E. ....	468 Rideau St., Kingston
Meaford Tank Company ....	Meaford, Ontario
M. and L. Welding and Steel ....	422 Aylmer St., Peterborough
Natweld Steel Products Ltd. ....	42 Tabor Road, Rexdale, Ont.
Oakwood Iron Works Limited ....	644 Rogers Road, Toronto 9
O'Connor Fuel Tanks Ltd. ....	15 Bermondsey Rd., Toronto 13
Pendell Boiler, Limited ....	50 Bartlett Ave., Toronto 4
Plate & Structural Steel Ltd. ....	48 Abel St., Toronto 3
Port Colborne Iron Works, Limited ....	Fraser St., Port Colborne
Ric-Wil Co. of Canada Limited ....	Wellington St., St. Thomas
Sparling Tank & Manufacturing Co. ....	268 Church St., Mimico, Toronto 14

## List of Firms in the Boilers and Plate Work Industry, 1958 — Concluded

Name of firm	Location of plant
<b>Ontario — Concluded:</b>	
Steel Fabricating & Welding, Limited .....	Brock & Hatt Sts., Dundas
Toronto Iron Works, Limited .....	629 Eastern Ave., Toronto 8
Warden Welding & Fabricating Limited .....	65 Hymus Road, Scarboro
West Machinery Limited .....	Wellington St., Simcoe
Wilson Engineering & Fabricating, Ltd. ....	Beach Road, Hamilton
Woodstock Boiler Works .....	217 Russell St., Woodstock
<b>Manitoba:</b>	
Canadian Brown Steel Tank Co. Ltd. ....	20th. St. & Pacific Ave., Brandon
Metals Industry Ltd. ....	Old Flying Club, North Hill, Brandon
Stephenson, J.R., Ltd. ....	555 Madison St., St. James
<b>Saskatchewan:</b>	
The Saskatoon Boiler Manufacturing Co. Limited .....	115 Ave. A, North, Saskatoon
<b>Alberta:</b>	
Black-Sivalls & Bryson, Ltd. ....	6203-104th St., Edmonton
Calgary Steel Tank, Limited .....	70th Ave. & MacLeod Trail, Calgary
Cumming's Welding Shop .....	9548-102nd Ave., Edmonton
Horton Steel works, Ltd. ....	2902-5th St., Lethbridge
Johnson Welding & Machine Shop Ltd. ....	Lloydminster
Liberty Boilers (Lethbridge) Ltd. ....	1402-2nd Ave. S., Lethbridge
Premier Steel Products Limited .....	Highway 14 East Edmonton
Refinery Vessels & Maintenance Ltd. ....	3635 Blackburn Rd., 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>	
Bobbie Equipment & Welding Co. Limited .....	1915 Fir St., Vancouver
Industrial Coatings Ltd. ....	1920 Main St., Vancouver
Lockheed-Haggarty Eng. & Mfg. Co. Ltd. ....	3904 Grant St., Burnaby 2
M. & M. Tanks Ltd. ....	8836 Selkirk St., Vancouver
Main Metal & Welding Ltd. ....	8194 Ontario St., Vancouver 15
Mainland Boiler Works .....	496 Alexander St., Vancouver 4
Pacific Steel Erectors Limited .....	400 Ewen Ave., New Westminster
Patterson Boiler Works, Limited .....	730 Alexander St., Vancouver
Royal City Welding & Iron Works, Ltd. ....	1027 Royal Ave., New Westminster
Steelweld Limited .....	1571 Main St., Vancouver 4
Vancouver Iron Works, Ltd. ....	1155 W. 6th Ave., Vancouver 9
Welding Shop & Engineering Co. Ltd. ....	1600 Main St., Vancouver 4
Western Corrosion Engineering Ltd. ....	882 East Cordova, Vancouver
Western Welding Works Ltd. ....	878 Powell St., Vancouver 4
Westminster Boiler & Tank Company .....	114-11th St., New Westminster



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