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THE BOILERS AND PLATE WORK INDUSTRY

1957



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NOTICE

The annual reports prepared by the Industry and Merchandising Division of the Bureau of Statistics are divided into 3 volumes, as follows: **Volume I** — The Primary Industries, including mining, forestry and fisheries; **Volume II** — Manufacturing; **Volume III** — Merchandising and Services. The volumes are made up of parts, and the parts in turn are subdivided according to the industries or provinces which they comprise.

Volume II consists of the following parts, the first two of which deal with manufacturing as a whole and the balance with the major manufacturing groups.

- I — General Review of the Manufacturing Industries
- II — The Manufacturing Industries of Canada, (7 sections, as follows:)
 - Section A. Summary for Canada
 - Section B. Atlantic Provinces
 - Section C. Quebec
 - Section D. Ontario
 - Section E. Prairie Provinces
 - Section F. British Columbia
 - Section G. The Manufacturing Industries of Canada,
Regional Distribution
- III — Foods and Beverages
- IV — Tobacco and Tobacco Products
- V — Rubber Products
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- VII — Textile Mills
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- IX — Clothing
- X — Wood and Paper Products
- XI — Printing Trades
- XII — Iron and Steel Products
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- XIV — Non-ferrous Metal Products
- XV — Electrical Apparatus and Supplies
- XVI — Non-metallic Mineral Products
- XVII — Products of Petroleum and Coal
- XVIII — Chemicals and Allied Products
- XIX — Miscellaneous Manufactures

The present report belongs in Part XII, Iron and Steel Products. It is punched to permit of filing in a ring binder along with others of the group. The reports in this group are:

- A — General Review
- B — The Agricultural Implements Industry
- C — The Boilers and Plate Work Industry
- D — The Bridge Building and Structural Steel Industry
- E — The Hardware, Tools and Cutlery Industry
- F — The Heating and Cooking Apparatus Industry
- G — The Machinery Industry
- H — The Machine Shops Industry
- I — The Iron Castings Industry
- J — The Primary Iron and Steel Industry
- K — The Sheet Metal Products Industry
- L — The Wire and Wire Goods Industry
- M — The Miscellaneous Iron and Steel Products Industry

Prices of most reports released after January 1, 1959 have been increased. Information on the new prices of particular issues is available on request from the Information Services Division of the Dominion Bureau of Statistics.

THE BOILERS AND PLATE WORK INDUSTRY, 1957

Factory shipments by the 102 establishments in the Boilers and Plate Work Industry were valued at \$121,959,107 in 1957. Forty-eight of these works were in Ontario, 21 in Quebec, 16 in British Columbia, 12 in Alberta, 3 in Manitoba and 1 each in Saskatchewan and Nova Scotia. These concerns gave employment to 9,226 people who were paid \$38,247,873 in salaries and wages. Materials used in manufacturing processes cost \$62,647,293 and expenditures for fuel and electricity amounted to \$1,531,273.

Tables 1 to 4 and tables 7 to 12 of this report deal with the Boilers and Plate Work Industry which covers the operations of the establishments that make 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 1957 for heating and power boilers was \$23,872,909 and for heating radiators \$10,887,301.

**TABLE 1. Principal Statistics of the Boilers and Plate Work Industry, Significant Years 1929 - 1957
and by Provinces, 1956 and 1957**

Year	Establishments	Employees	Salaries and wages	Cost of fuel and electricity at plant	Cost at plant of materials used	Value added by manufacturer ¹	Gross selling value of products ¹
number							
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	4,445,258
1937	54	2,936	3,694,393	226,891	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	37,385,932
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
1953	82	8,958	32,480,753	1,131,868	37,290,528	59,226,747	97,649,143
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							
Nova Scotia	1	2,285	8,457,936	341,767	19,643,943 ²	13,295,726	33,128,385
Quebec	21						
Ontario	51	5,406	21,266,286	822,292	28,195,458	32,319,060	61,228,276
Alberta	10	340	1,264,092	117,245	3,903,373	2,868,696	6,295,085
British Columbia	16	680	2,689,967	118,524	3,444,986	4,516,964	7,611,497
Manitoba	3						
Saskatchewan	1	293	706,413	51,196	1,810,698	532,600	2,433,797
Canada	103	9,004	34,384,694	1,451,024	56,998,458	53,533,046	110,697,040
1957							
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						
Saskatchewan	1	149	476,208	41,535	1,375,060	689,231	2,166,318
Canada	102	9,226	38,247,873	1,531,273	62,647,293	57,326,097	121,959,107

¹ 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.

² Disproportionately high in 1956 because of the inclusion of approximately \$7,000,000 worth of component parts in 1956 which were not reported in 1955.

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,¹ 1957

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
dollars				
Opening:				
Quebec and Nova Scotia	3, 313, 743	1, 284, 038	1, 810, 769	6, 408, 550
Ontario	7, 630, 447	8, 405, 477	1, 718, 212	17, 754, 136
Manitoba and Saskatchewan	439, 548	81, 235	87, 908	608, 691
Alberta	1, 854, 077	1, 152, 469	181, 100	3, 187, 646
British Columbia	1, 092, 121	1, 349, 625	118, 221	2, 559, 967
Canada	14, 329, 936	12, 272, 844	3, 916, 210	30, 518, 990
Closing:				
Quebec and Nova Scotia	3, 471, 337	1, 225, 710	1, 844, 377	6, 541, 424
Ontario	9, 258, 603	8, 243, 486	1, 851, 111	19, 353, 200
Manitoba and Saskatchewan	390, 773	52, 132	56, 519	499, 424
Alberta	1, 982, 198	213, 156	240, 656	2, 436, 010
British Columbia	1, 264, 299	1, 886, 516	120, 947	3, 271, 762
Canada	16, 367, 210	11, 621, 000	4, 113, 610	32, 101, 820

¹ 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 1957 does not necessarily agree with the closing inventory for 1956 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, 1956 and 1957

Product	1956		1957	
	Quantity	Value of factory shipments	Quantity	Value of factory shipments
		\$		\$
Heating boilers:				
Cast iron sectional heating boilers:				
(a) Under 775 sq. ft. No.	6, 949	873, 232	6, 101	941, 685
(b) 776-1,499 sq. ft. "	1, 838	757, 760	1, 887	812, 057
(c) 1,500 sq. ft. and over "	1, 289	1, 042, 396	1, 056	1, 031, 852
Steel heating boilers:				
(a) Under 112 sq. ft. (heating surface) "	3, 031	546, 952	2, 903	510, 207
(b) 112-522 sq. ft. (" ") "	468	966, 654	393	756, 926
(c) 573-1,245 sq. ft. (" ") "	186	646, 721	185	650, 738
(d) 1,362 sq. ft. & over (" ") "	10	70, 461	18	110, 729

TABLE 3. Products Made in the Boilers and Plate Work Industry, 1956 and 1957 — Concluded

Product	1956		1957	
	Quantity	Value of factory shipments	Quantity	Value of factory shipments
		\$		\$
Power boilers and equipment:				
Water tube package boiler units	122	2,390,683	116	3,616,242
Fire tube package boiler units	184	751,864	24	97,123
Marine type boilers — fire tube and water tube	42	663,842	46	304,065
Fire tube boilers, other	37	72,423	12	56,817
All other power boilers	174	10,672,090	118	7,636,603
Boiler parts, including drums, water walls, repairs, etc.	—	1,441,640	—	1,569,052
Radiators, heating:				
Steel and cast iron, standing sq. ft.	4,896,318	3,269,300	4,206,307	3,095,496
Steel and cast iron, concealed	"			
Fabricated products:				
Steel plate (cut, punched, shaped or otherwise fabricated for assembly on job)	—	14,948,373 ¹	—	26,453,467
Structural shapes (cut, punched, shaped or otherwise fabricated for assembly on job)	—	1,937,336 ¹	—	1,925,822
Miscellaneous plate work:				
Bins and hoppers	—	696,027	—	953,214
Smokestacks	—	285,258	—	382,919
Smoke Breeching	—	265,890	—	333,507
Riveted and welded steel pipe — stainless other steel	ton 922 1,494	2,476,435 618,740	993 2,480	2,503,132 873,015
Other plate work	—	7,084,696	—	7,093,694
Tanks (complete at factory) and cylinders:				
Gas cylinder, metal (L.P. gas, etc.)	—	1,409,627	—	528,634
Boiler drums	—	37,775	—	10,000
Pressure and vacuum tanks	—	5,215,830	—	6,025,432
Steel septic	—	510,191	—	442,432
Storage and processing tanks	—	11,982,829	—	13,566,292
Tanks, other	—	2,845,136	—	1,511,681
Pumps, all kinds, and parts	—	1,051,649	—	1,239,116
Stokers, mechanical, and parts	—	1,063,507	—	1,028,777
Furnaces, warm air	No. 807	80,897	701	84,307
Receipts from custom work and repairs	—	6,291,095	—	6,933,548
All other products ²	—	27,729,731	—	28,880,520
Total	—	110,697,040	—	121,959,107

¹ Revised.² 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, 1956 and 1957

Material	1956		1957		
	Quantity	Cost at works	Quantity	Cost at works	
		\$		\$	
Castings (rough and semi-finished) received from foundry:					
Iron (grey and malleable)	ton	2,154	577,103	2,717	688,932
Steel	"	2,524	810,275	4,067	1,587,941
Pig iron	"	20,353	1,195,791	16,322	1,034,567
Steel (except alloy):					
Bars and rods	"	6,736	1,208,156	7,251	1,392,998
Sheets:					
Black	"	32,922	4,792,360	21,032	3,146,543
Galvanized	"	290	55,620	1,261	210,853
Tin plate	"	31	7,391	6	1,430
Plates	"	105,958	15,779,673	119,170	19,737,212
Structural shapes	"	17,741	2,745,626	20,973	3,369,125
Boiler tubes	—	—	2,487,929	—	3,439,471
Wire	—	—	8,178	—	9,344
Alloy steel:					
Stainless:					
Billets, bars and rods	—	—	93,126	—	159,747
Other	—	—	2,585,455	—	2,695,122
Other alloy steel	—	—	1,026,847	—	729,570
Scrap iron and steel:					
Purchased.....	ton	16,993	719,175	13,664	607,556
Own make	"	1,141	46,390	677	26,574
Other iron and steel	—	—	2,556,422	—	2,354,525
Ferro-alloys	—	—	45,181	—	51,265
Non-ferrous metals, including scrap:					
Aluminum:					
Castings	pound	53,940	34,218	20,141	13,016
Sheet	"	144,604	70,419	254,528	133,359
Other forms	"	24,089	17,416	104,931	53,176
Brass and bronze	"	184,531	123,950	220,129	124,576
Copper:					
Sheet	"	33,371	20,108	93,194	49,747
Other forms	"	23,991	14,293	24,763	14,519
Nickel	"	4,521	2,744	9,765	6,256
Lead	"	48,588	12,255	77,489	17,433
Tin	"	485	839	—	—
Zinc	"	550	143	500	150
Babbitt metals and solders	"	28,840	20,839	26,329	18,566
Other non-ferrous metals	—	—	17,359	—	43,961
Other materials:					
Iron and steel pipe and fittings	—	—	1,125,932	—	2,210,551
Paints, oils and varnishes	—	—	209,286	—	189,404
Foundry coke	ton	8,608	266,807	7,647	251,189
Foundry sands	"	18,556	101,498	14,586	88,870
Plumbago and graphite	pound	16,780	1,767	12,064	1,764
Lumber	M ft. b.m.	2,355	265,146	2,185	243,415
Fireclay	ton	1,427	43,408	1,264	35,760
Cupola blocks and firebrick	—	—	27,504	—	15,881
Core oil	Imp. gal.	47,847	51,758	27,439	33,828
Shipping containers	—	—	129,676	—	151,071
All other materials	—	—	17,700,395	—	17,708,026
Total	—	—	56,998,458	—	62,647,293

TABLE 5. Factory Shipments of Heating and Power Boilers, 1956 and 1957 (from all industries)

Type	1956		1957	
	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.	8,265	1,107,730	6,727	1,066,634
(b) 776-1,499 sq. ft.	2,482	952,264	2,285	956,154
(c) 1,500 sq. ft. and over	1,571	1,196,511	1,261	1,154,502
Steel heating boilers:				
(a) Under 112 sq. ft.	7,085	1,569,342	6,672	1,404,500
(b) 112-522 sq. ft.	1,360	2,935,659	1,003	1,867,853
(c) 573-1,245 sq. ft.	363	1,541,254	718	2,099,967
(d) 1,362 sq. ft. and over	40	414,894	99	929,204
Power boilers:				
Marine type	42	663,842	51	313,465
Water tube package boiler units	124	2,423,953	129	3,805,586
Fire tube package boiler units	—	1,086,012	201	964,876
Fire tube boilers	72	302,222	31	207,082
Boilers, type not specified	—	13,360,255	—	9,103,086
Total	—	27,553,938	—	23,872,909

TABLE 6A. Total Production¹ of Heating Radiators, 1948-1957² (from all industries)

Year	Steel and cast iron types (standing and concealed)		Convector (steel and non-ferrous types)		Total	
	Sq. ft.	Value	Sq. ft.	Value	Sq. ft.	Value
		\$		\$		\$
1948	8,644,853	4,115,098	4,868,121	2,244,819	13,512,974	6,359,917
1949	7,163,072	3,617,605	5,444,115	2,543,305	12,607,187	6,160,910
1950	7,250,054	3,761,761	6,922,053	3,180,440	14,172,107	6,942,201
1951	7,489,125	4,474,647	9,503,702	5,117,269	16,992,827	9,591,916
1952	5,263,434	3,622,315	7,990,079	4,393,017	13,253,513	8,015,332
1953	6,346,714	4,195,740	8,659,792	4,883,288	15,006,506	9,079,028
1954	5,811,940	3,888,017	8,932,191	5,321,258	14,744,131	9,209,275
1955	6,194,680	3,999,980	10,091,279	6,303,627	16,285,959	10,303,607

¹ Factory shipments since 1952.² For 1956 and 1957 see new breakdown in Table 6B.

TABLE 6B. Total Production of Heating Radiators, 1956 and 1957 (from all industries)

Kind	1956		1957	
	Equivalent direct radiation	Value of factory shipments	Equivalent direct radiation	Value of factory shipments
Standing type, cast iron and pressed steel (excluding tube and fin type)	sq. ft.	\$	sq. ft.	\$
..... 3,524,888	2,315,899 3,692,980	2,791,111	
Baseboard type, cast iron, pressed steel and other fabricated metal	4,315,424	3,124,326	4,340,047	3,317,150
Concealed type, cast iron, pressed steel and other fabricated metal	8,654,006	5,600,330	7,115,868	4,779,040
Total	16,494,318	11,040,555	15,148,895	10,887,301

TABLE 7. Principal Statistics of the Boilers and Plate Work Industry, Classified According to Type of Ownership, 1956 and 1957

Type	Establishments	Employees	Salaries and wages	Cost of fuel and electricity	Cost at plant of materials used	Selling value of factory shipments
number						
dollars						
1956						
Individual ownership	11	91	291,105	22,281	449,911	899,835
Partnerships	5	77	293,607	18,067	409,774	885,536
Incorporated companies	87	8,836	33,799,982	1,410,676	56,138,773	108,911,669
Total	103	9,004	34,384,694	1,451,024	56,998,458	110,697,040
1957						
Individual ownership	10	80	248,471	17,707	304,038	714,546
Partnerships	6	81	282,178	15,634	547,817	995,785
Incorporated companies	86	9,065	37,717,224	1,497,932	61,795,438	120,248,775
Total	102	9,226	38,247,873	1,531,273	62,647,293	121,959,107

TABLE 8. Principal Statistics of the Boilers and Plate Work Industry, Grouped According to Value of Factory Shipments, 1956 and 1957

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						
dollars						
1956						
Under \$10,000	3	5	9,619	881	9,077	22,069
\$10,000 to \$24,999	2	1	28,560	3,130	32,023	74,245
\$25,000 to \$49,999	1	9	366,800	24,793	456,846	989,092
\$50,000 to \$99,999	13	109	719,752	63,787	1,270,044	2,400,742
\$100,000 to \$199,999	15	225	2,486,320	146,900	4,286,689	8,401,706
\$200,000 to \$499,999	25	687	4,172,522	184,670	8,001,014	14,703,919
\$500,000 to \$999,999	20	1,170	13,149,515	486,391	19,837,391	40,403,205
\$1,000,000 to \$4,999,999	19	3,378	12,762,949	540,472	23,105,374	43,702,062
\$5,000,000 and over	5	3,281	688,657	—	—	—
Head offices	—	140	—	—	—	—
Total	103	9,004	34,384,694	1,451,024	56,998,458	110,697,040
1957						
Under \$10,000	4	1	67,065	4,530	37,593	89,342
\$10,000 to \$24,999	1	1	267,703	18,590	318,642	770,391
\$25,000 to \$49,999	1	80	811,527	65,468	1,241,775	2,445,132
\$50,000 to \$99,999	10	224	2,957,587	152,263	4,531,376	9,125,073
\$100,000 to \$199,999	16	779	4,291,540	190,105	6,530,531	12,723,918
\$200,000 to \$499,999	28	937	7,459,220	345,287	11,497,451	26,272,001
\$500,000 to \$999,999	18	1,876	21,631,016	755,030	38,489,925	70,533,245
\$1,000,000 to \$4,999,999	15	5,155	762,213	—	—	—
\$5,000,000 and over	9	154	—	—	—	—
Head offices	—	—	—	—	—	—
Total	102	9,226	38,247,873	1,531,273	62,647,293	121,959,107

TABLE 9. Employees and their Earnings in the Boilers and Plate Work Industry, by Provinces, 1956 and 1957

Province	Number of employees						Earnings		
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	Total	
	Male	Female	Male	Female					
dollars									
1956									
Quebec	376	101	1,588	3	2,068	2,104,396	5,790,607	7,895,003	
Ontario	1,354	444	3,592	16	5,406	7,429,419	13,836,867	21,266,286	
Alberta	67	25	247	1	340	331,732	932,360	1,264,092	
British Columbia	96	34	548	2	680	536,182	2,153,785	2,689,967	
Other provinces	35	14	460	1	510	232,854	1,036,492	1,269,346	
Total	1,928	618	6,435	23	9,004	10,634,583	23,750,111	34,384,694	
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	
Total	1,964	625	6,609	28	9,226	11,627,923	26,619,950	38,247,873	

TABLE 10. Production Workers, by Months, 1956 and 1957

Month	1956			1957		
	Male	Female	Total	Male	Female	Total
number						
January	5,929	29	5,958	6,581	30	6,611
February	6,033	21	6,054	6,645	29	6,674
March	6,143	22	6,165	6,548	29	6,577
April	6,151	23	6,174	6,607	29	6,636
May	6,534	23	6,557	6,786	29	6,815
June	6,641	24	6,665	6,907	30	6,937
July	6,655	24	6,679	6,758	30	6,788
August	6,958	23	6,981	6,771	28	6,799
September	6,970	19	6,989	6,650	28	6,678
October	6,772	23	6,795	6,435	28	6,463
November	6,709	25	6,734	6,448	30	6,478
December	6,674	25	6,699	6,143	27	6,170
Average	6,435	23	6,458	6,609	28	6,637

TABLE 11. Capital and Repair Expenditures in the Boilers and Plate Work Industry, 1953-1957

Year	Capital expenditures		Sub-total	Repair and maintenance expenditures		Sub-total	Total capital and repair expenditures
	Construction	Machinery and equipment		Construction	Machinery and equipment		
thousands of dollars							
1953	111	1,952	3,063	467	2,500	2,967	6,030
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	3,599	3,962	7,561	347	2,474	2,821	10,382

Note: Figures for the current year are preliminary.

TABLE 12. Fuel and Electricity Used in the Boilers, and Plate Work Industry, 1956 and 1957

Kind		1956		1957	
		Quantity	Cost at works	Quantity	Cost at works
		\$	\$		
Bituminous coal (a) from Canadian mines	ton	3,552	44,113	4,036	47,134
(b) imported	"	5,871	63,573	5,295	63,533
Anthracite coal	"	8,380	88,971	8,783	96,389
Lignite coal	"	87	700	75	600
Coke	"	173	3,312	245	4,798
Gasoline, including gasoline used in cars and trucks Imp. gal.		662,378	252,887	726,204	281,558
Kerosene	"	5,454	1,299	3,340	882
Fuel oil	"	2,026,252	309,730	2,671,922	322,265
Wood	cord	71	730	32	224
Gas (a) Liquefied petroleum gases	Imp. gal.	25,018	5,639	43,253	11,527
(b) Other manufactured gas	M cu. ft.	9,224	9,631	3,073	5,383
(c) Natural gas	"	66,137	33,004	80,533	45,675
Other fuel	—	—	35,227	—	28,765
Electricity purchased	kwh.	42,484,325	602,208	40,084,113	622,489
Total	—	—	1,451,024	—	1,531,273

List of Firms in the Boilers and Plate Work Industry, 1957

Name of firm	Location of plant
Nova Scotia:	
Steel and Engine Products Ltd.	Liverpool
Quebec:	
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.	5570 Chapleau St., Montreal 9
C. L. Metal Works Reg'd.	359 Bouffard, Quebec
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
Northern Steel Industries Limited	5335 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
Ontario:	
Aga Steel Radiators of Canada Ltd.	Ajax
Allen Tank & Welding Co. Ltd.	271 Hamilton Rd., London
American Standard Products (Canada) Limited	1201 Dupont St., Toronto 4
Aurora Tank & Welding	47 Temperance St., Aurora
Babcock-Wilcox & Goldie-McCulloch, Ltd.	64-68 Grand Ave. S., Galt
Bell, Robert, Industries Ltd.	Seaforth
Bingley Steel Works Ltd.	40 Williams St., Cornwall
Campbell Steel & Iron Works, Limited	855 Carling Ave., Ottawa
Cockram, W., & Co., Ltd.	Paris
Diamalloy Manufacturing Limited	2316-18 Gerrard St. E., Toronto 13
Dixie Steel Works Ltd.	2520 Haines Rd., Dixie
Dominion Welding Engineering Company Limited	6898 Notre Dame St. E., Montreal
Domestic Tank & Equipment Ltd.	91 Centre Ave., Scarborough
Eastern Welding Co. Ltd.	100 Hymus Rd., Toronto
Embro Welding & Steel Fabrication	Embro
Essex Boiler & Heating Engineering Co.	1303 McDougall, Windsor
Feiertag, Eddy, Welding	Ridgeway
Foster Wheeler, Limited	81 Eastchester Ave., St. Catharines
Glitsch, Fritz W., & Sons (Canada) Ltd.	Brock St., 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
Imperial Welding Co. Limited	Trunk Road, Sault Ste. Marie
Inglis, John, Co., Limited	14 Strachan Ave., Toronto
Lee Products Limited	410 Hopewell Ave., Toronto
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
MacDonald, John, & Co.	1456 Victoria Park Ave., Toronto
MacPherson, C.E.	468 Rideau St., Kingston
Magee, E.B. Ltd.	Port Colborne
Meaford Tank Company	Meaford, Ontario
M. and L. Welding and Steel	422 Aylmer St., Peterborough
Nat Weld Steel Products Ltd.	1 Glen Scarlett Rd., Toronto 9
Oakwood Iron Works Limited	644 Rogers Road, Toronto
O'Connor Fuel Tanks Ltd.	15 Bermondsey Rd., Toronto
Pendell Boiler, Limited	50 Bartlett Ave., Toronto
Plate & Structural Steel Ltd.	48 Abell St., Toronto
Port Colborne Iron Works, Limited	Fraser St., Port Colborne
Ric-Wel Co. of Canada Limited	Wellington St., St. Thomas
Sparling Tank Ltd.	236 Church St., Mimico, Toronto 14



List of Firms in the Boilers and Plate Work Industry, 1957 — Concluded

Name of firm	Location of plant
Ontario — Concluded:	
Steel Fabricating & Welding, Limited	Brock & Hatt Sts., Dundas
Toronto Iron Works, Limited	629 Eastern Ave., Toronto
Warden Welding Works	5 Malley Road, Scarboro
West Machinery Limited	Box 219, Simcoe
Wilson Engineering — Fabricating, Ltd.	Beach Road, Hamilton
Woodstock Boiler Works	217 Russell St., Woodstock
Manitoba:	
Canadian Brown Steel Tank Co. Ltd.	Brandon
Metals Industry Ltd.	Old Flying Club, North Hill, Brandon
Stephenson, J.R., Ltd.	555 Madison St., St. James
Saskatchewan:	
Northwestern Iron Works, Ltd.	1419 Scarth St., Regina
Alberta:	
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
Edmonton Steel Fabricators Ltd.	Cooking Lake Trail, Highway 14, Edmonton
Horton Steel works, Ltd.	28th & 5th Ave. N., Lethbridge
Johnson Welding & Machine Shop Ltd.	Lloydminster
Liberty Boilers (Lethbridge) Ltd.	1402-2nd Ave. S., Lethbridge
Refinery Vessels & Maintenance Ltd.	3635 Blackburn Rd., Calgary
Reliance Welding Works	9566 Jasper Ave., Edmonton
Steelcrafts Alberta Ltd.	4202 MacLeod Trail, Clagary
Universal Industries Ltd.	Lloydminster
Western, T.I.W. Ltd.	P.O. Box 247, Edmonton
British Columbia:	
Blain Boiler Works, Ltd.	400 Ewan St., New Westminster
Bobbie & Grand Equipment & Welding Co.	409 Rogers Bldg., 470 Granville St., Vancouver
Industrial Coatings Ltd.	1920 Main St., Vancouver
Lockheed-Haggarty Eng. & Mfg. Co. Ltd.	3904 Grant St., North Burnaby
M. & M. Tanks Ltd.	8836 Selkirk St., Vancouver
Main Metal & Welding Ltd.	8194 Ontario St., Vancouver
Mainland Boiler Works	496 Alexander St., Vancouver
Patterson Boiler Works, Limited	736 Alexander St., Vancouver
Royal City Welding & Iron Works, Ltd.	1027 Royal Ave., New Westminster
Steelweld Limited	1571 Main St., Vancouver
Van's Steel Fabricators	1868 Kent, Vancouver
Vancouver Iron Works, Ltd.	1155 W. 6th Ave., Vancouver
Welding Shop & Engineering Co. Ltd.	1600 Main St., Vancouver
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