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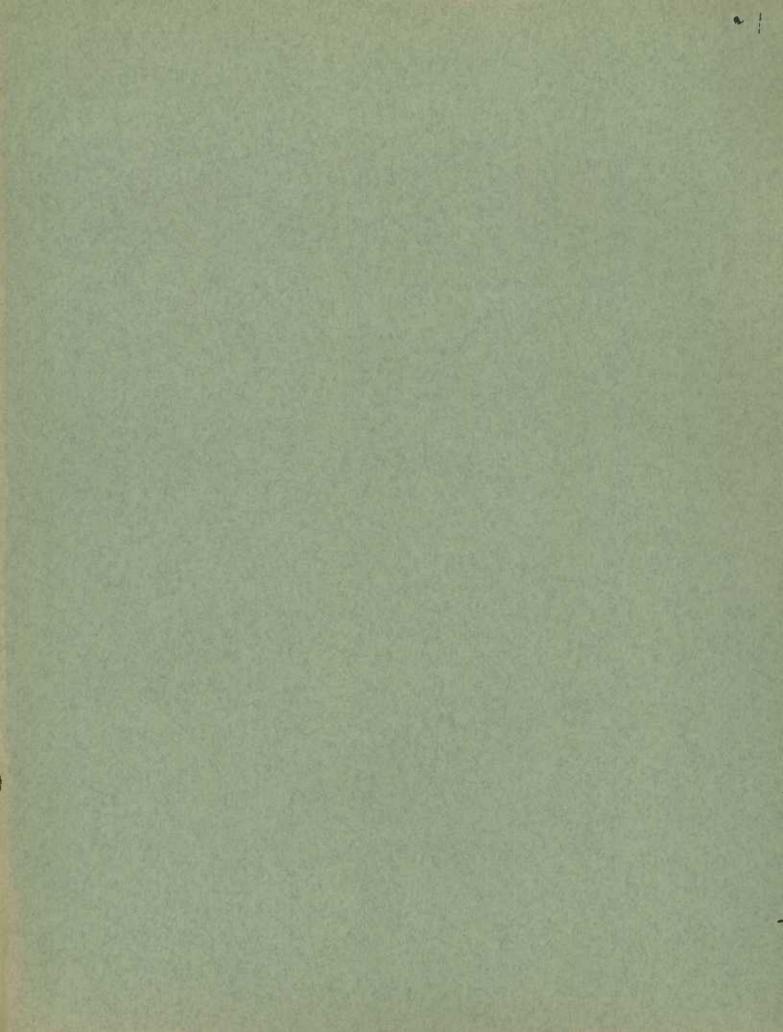
# THE BOILERS, TANKS & ENGINES INDUSTRY

IN

CANADA

1935

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

Dominion Statistician: R. H. Coats, LL.D., F.R.S.C., F.S.S. (Hon.) Chief - Mining, Metallurgical and Chemical Branch: W. H. Losee, B. Sc.

#### ANNUAL INDUSTRY REPORT

#### IRON AND STEEL AND THEIR PRODUCTS GROUP

#### THE BOILERS, TANKS AND ENGINES INDUSTRY, 1935.

In accordance with the Statistics Act each manufacturing concern in Canada is required to submit to the Dominion Bureau of Statistics at Ottawa, a yearly report covering such items as production, employment, capital, etc. In most cases a manufacturer makes more than one product but is not asked to apportion these details between the different products which he manufactures. It is impossible, therefore, except in a few cases, to compile detailed figures of employment, etc., for any single commodity.

For the presentation of these detailed statistics, the Bureau has subdivided manufacturing into nine groups of industries, producing concerns being classified according to the principal component material of their major products. For example, the pulp and paper industry is classified under "Wood and Paper"; boiler manufacturers under "Iron and Steel and Their Products," etc. These main groups are further divided into industries to which the concerns are allotted according to the nature of their main products. The iron and steel group is subdivided into 14 industries, one being the Boilers, Tanks and Engines Industry which is reviewed in this bulletin. This industry covers the operations of establishments which made as their chief products such articles as boilers or heating radiators, engines, tanks, and miscellaneous products from steel plate such as bins, hoppers, smokestacks, etc. It is apparent, however, from the explanation given above, that the production figures as compiled for this industry do not necessarily represent the total Canadian output for the commodities listed as they may have been produced also as minor products of firms in other industries. Supplementary tables have been added to give total output figures for boilers, engines, tanks and steel plate products.

Fifty-six establishments were included in the Boilers, Tanks and Engines Industry in 1935, there being 27 in Ontario, 12 in Quebec, 9 in British Columbia, 6 in Nova Scotia, 1 in Manitoba, and 1 in Saskatchewan. These works reported fixed and working capital at \$15,417,364, employed an average of 2,410 workers, and paid out \$2,771,854 in salaries and wages. Materials for manufacturing cost \$2,774,327 and the value of products was \$7,365,523.

The total Canadian production of heating and power boilers of all kinds, including the output in other industrial groups, was valued at \$1,535,896 in 1935; engines (excluding automobile engines) were valued at \$938,676 and tanks of all kinds at \$1,611,258.

				- 2 -			
Table 1 -	PRINCIPA	AL STATISTIC	S OF THE	E BOILERS, TA	ANKS AND E	IGINES INDUS	TRY, 1921-1935.
			Average		Cost of		Gross selling
	No. of	Capital	number		fuel and	Cost of	value of
Years	plants	employed	of em-			ity material	
10010	pranos	emproy ea			at works	. "	*
			ployees				
3.003	70	<b>P</b>	7 705	\$	\$	\$	\$
1921		9,783,160	3,105	2,455,769	157,500	2,479,032	6,960,170
1922		10,370,771	1,616	2,045,712	116,241	2,036,213	4,904,613
1923		8,907,457	1,422	1,856,119	162,920	2,144,355	4,929,920
1924	32	9,140,981	1,242	1,619,323	136,984	1,588,530	3,667,610
1925	32	8,638,759	1,367	1,832,540	122,942	2,322,798	4,540,706
1926	34	8,880,350	1,534	1,993,722	134,092	2,576,122	5,343,208
1927	33	9,329,528	1,654	2,260,284	141,066	2,853,951	5,945,694
1928	P 9"	9,352,068	1,752	2,393,200	141,241	3,228,497	6,507,437
1929		10,665,197	2,157	3,043,768	163,137	5,091,406	10,006,278
1930							
		9,982,016	1,924	2,649,804	159,813	4,565,856	9,597,239
1931		10,833,223	1,803	2,376,416	135,668	2,640,600	6,367,008
1932		10,231,811	1,391	1,636,953	116,755	1,527,402	4,465,089
1933		13,331,336	1,572	1,742,257	168,784	1,553,690	4,445,256
1934		14,202,122	2,047	2,291,422	194,556	2,432,907	6,485,814
1935	56	15,417,364	2,410	2,771,854	231,328	2,774,327	7,365,523
(x) Elect	ricity no	t included	prior to	1923.			
Table 2 -	PRINCIPA	L STATISTIC	S. BY SU	B-GROUPS, 19	34 and 193	55.	
				erage	Cost		Gross sel-
	No	of Capit		ber Salari			
Cub amoun		-					
Sub-group	s bra	ints employ		em- and		ricity mater	ials of products
				TTOO O O THE O O O		also at ma	roles at mi-roles
			pTc	yees wages		the same of the sa	rks at works
2 0 7 4		\$	pTo	yees wages	at wor	ks at wo	rks at works
1934		\$	plo			the same of the sa	rks at works
Boilers,		\$	plo			the same of the sa	rks at works
		\$	pro			the same of the sa	rks at works
Boilers, tanks an					\$	\$	\$
Boilers, tanks an work, ch	d plate iefly	38 12,728	,403 1,	\$ 792 1,953,6	\$ 606 182,6	\$ 2,00 <b>9</b> ,	\$ 015 5,461,667
Boilers, tanks an work, ch Engines,	d plate iefly chiefly .	38 12,728 13 1,473	,403 l,	792 1,953,6 255 337,8	\$ 606 182,6 816 11,9	\$35 2,00 <b>9</b> ,	\$ 015 5,461,667 892 1,024,147
Boilers, tanks an work, ch Engines, TOTAL	d plate iefly	38 12,728 13 1,473	,403 l,	\$ 792 1,953,6	\$ 606 182,6 816 11,9	\$35 2,00 <b>9</b> ,	\$ 015 5,461,667 892 1,024,147
Boilers, tanks an work, ch Engines, TOTAL 1935	d plate iefly chiefly	38 12,728 13 1,473 51 14,202	,403 l,	792 1,953,6 255 337,8	\$ 606 182,6 816 11,9	\$35 2,00 <b>9</b> ,	\$ 015 5,461,667 892 1,024,147
Boilers, tanks an work, ch Engines, TOTAL 1935 Boilers,	d plate iefly chiefly	38 12,728 13 1,473 51 14,202	,403 l,	792 1,953,6 255 337,8	\$ 606 182,6 816 11,9	\$35 2,00 <b>9</b> ,	\$ 015 5,461,667 892 1,024,147
Boilers, tanks an work, ch Engines, TOTAL 1935 Boilers, tanks an	d plate iefly chiefly <u>.</u> radiators d plate	38 12,728 13 1,473 51 14,202	,403 1, ,719 ,122 2,	792 1,953,6 255 337,3 047 2,291,4	\$606 182,6 816 11,9 122 1 <b>94</b> ,5	\$35 2,009, 21 423, 556 2,432,	\$ 015 5,461,667 892 1,024,147 907 6,485,814
Boilers, tanks an work, ch Engines, TOTAL 1935 Boilers, tanks an work, c	d plate iefly chiefly radiators d plate hiefly	38 12,728 13 1,473 51 14,202 6, 43 14,124	,403 1, ,719 ,122 2,	792 1,953,6 255 337,3 047 2,291,4	\$ 182,6 316 11,9 122 194,5	\$35 2,009, 21 423, 556 2,432,	\$ 015 5,461,667 892 1,024,147 907 6,485,814 867 6,129,634
Boilers, tanks an work, ch Engines, TOTAL 1935 Boilers, tanks an work, c Engines,	d plate iefly chiefly radiators d plate hiefly chiefly	38 12,728 13 1,473 51 14,202 6, 43 14,124 13 1,293	,403 1, ,719 ,122 2, ,191 2,	792 1,953,6 255 337,3 047 2,291,4 129 2,374,3 281 397,5	\$ 182,6 316 11,3 122 194,5 302 219,9 352 11,3	\$35 2,009, 21 423, 556 2,432, 957 2,240, 571 533,	\$ 015 5,461,667 892 1,024,147 907 6,485,814  867 6,129,634 460 1,235,889
Boilers, tanks an work, ch Engines, TOTAL 1935 Boilers, tanks an work, c Engines,	d plate iefly chiefly radiators d plate hiefly	38 12,728 13 1,473 51 14,202 6, 43 14,124 13 1,293	,403 1, ,719 ,122 2, ,191 2,	792 1,953,6 255 337,3 047 2,291,4	\$ 182,6 316 11,3 122 194,5 302 219,9 352 11,3	\$35 2,009, 21 423, 556 2,432, 957 2,240, 571 533,	\$ 015 5,461,667 892 1,024,147 907 6,485,814  867 6,129,634 460 1,235,889
Boilers, tanks an work, ch Engines, TOTAL 1935 Boilers, tanks an work, c Engines, TOTAL	d plate iefly chiefly radiators d plate hiefly chiefly	38 12,728 13 1,473 51 14,202 43 14,124 13 1,293 56 15,417	,403 1, ,719 ,122 2, ,191 2, ,173 ,364 2,	792 1,953,6 255 337,3 047 2,291,4 129 2,374,3 281 397,5 410 2,771,8	\$606 182,6 816 11,9 122 194,5 802 219,9 852 11,3	\$35 2,009, 921 423, 556 2,432, 957 2,240, 571 533, 528 2,774,	\$ 015 5,461,667 892 1,024,147 907 6,485,814  867 6,129,634 460 1,235,889
Boilers, tanks an work, ch Engines, TOTAL 1935 Boilers, tanks an work, c Engines, TOTAL	d plate iefly chiefly radiators d plate hiefly chiefly	38 12,728 13 1,473 51 14,202 43 14,124 13 1,293 56 15,417	,403 1, ,719 ,122 2, ,191 2, ,173 ,364 2,	792 1,953,6 255 337,3 047 2,291,4 129 2,374,3 281 397,8 410 2,771,8	\$606 182,6 816 11,9 122 194,5 802 219,9 852 11,3 854 231,3	\$35 2,009, 921 423, 556 2,432, 957 2,240, 571 533, 528 2,774,	\$ 015 5,461,667 892 1,024,147 907 6,485,814  867 6,129,634 460 1,235,889 327 7,365,523
Boilers, tanks an work, ch Engines, TOTAL 1 9 3 5 Boilers, tanks an work, c Engines, TOTAL Table 3 -	d plate iefly chiefly radiators d plate hiefly chiefly	38 12,728 13 1,473 51 14,202 6, 43 14,124 13 1,293 56 15,417 L STATISTIC	,403 1, ,719 ,122 2, ,191 2, ,173 ,364 2, S, BY PR	792 1,953,6 255 337,3 047 2,291,4 129 2,374,3 281 397,5 410 2,771,8	\$606 182,6316 11,932 194,5352 11,3354 231,3354 Cost of	\$35 2,009, 21 423, 556 2,432, 057 2,240, 571 533, 528 2,774,	\$ 015 5,461,667 892 1,024,147 907 6,485,814  867 6,129,634 460 1,235,889 327 7,365,523  Cross sel-
Boilers, tanks an work, ch Engines, TOTAL 1935 Boilers, tanks an work, c Engines, TOTAL	d plate iefly chiefly radiators d plate hiefly chiefly PRINCIPA	38 12,728 13 1,473 51 14,202 6, 43 14,124 13 1,293 56 15,417 L STATISTIC	,403 1, ,719 ,122 2, ,191 2, ,173 ,364 2, S, BY PF Average number	792 1,953,6 255 337,3 047 2,291,4 129 2,374,3 281 397,5 410 2,771,8 COVINCES, 193	\$606 182,6 816 11,9 122 194,5 502 219,9 552 11,3 854 231,3 Cost of fuel and	\$35 2,009, 21 423, 556 2,432, 577 2,240, 571 533, 528 2,774,	\$ 015 5,461,667 892 1,024,147 907 6,485,814  867 6,129,634 460 1,235,889 327 7,365,523  Gross selling value
Boilers, tanks an work, ch Engines, TOTAL 1 9 3 5 Boilers, tanks an work, c Engines, TOTAL Table 3 -	d plate iefly chiefly radiators d plate hiefly chiefly	38 12,728 13 1,473 51 14,202 6, 43 14,124 13 1,293 56 15,417 L STATISTIC	,403 1, ,719 ,122 2, ,191 2, ,173 ,364 2, S, BY PF Average number	792 1,953,6 255 337,3 047 2,291,4 129 2,374,3 281 397,5 410 2,771,8 COVINCES, 193	\$606 182,6 816 11,9 122 194,5 502 219,9 552 11,3 854 231,3 Cost of fuel and	\$35 2,009, 21 423, 556 2,432, 057 2,240, 571 533, 528 2,774,	\$ 015 5,461,667 892 1,024,147 907 6,485,814  867 6,129,634 460 1,235,889 327 7,365,523  Gross selling value
Boilers, tanks an work, ch Engines, TOTAL 1 9 3 5 Boilers, tanks an work, c Engines, TOTAL Table 3 -	d plate iefly chiefly radiators d plate hiefly chiefly PRINCIPA	38 12,728 13 1,473 51 14,202 6, 43 14,124 13 1,293 56 15,417 L STATISTIC	,403 1, ,719 ,122 2, ,191 2, ,173 ,364 2, S, BY PF Average number	792 1,953,6 255 337,3 047 2,291,4 129 2,374,3 281 397,5 410 2,771,8 0VINCES, 193 e Salaries and	\$606 182,6 816 11,9 122 194,5 502 219,9 552 11,3 854 231,3 Cost of fuel and	\$35 2,009, 21 423, 556 2,432, 577 2,240, 571 533, 528 2,774,	\$ 015 5,461,667 892 1,024,147 907 6,485,814  867 6,129,634 460 1,235,889 327 7,365,523  Gross selling value
Boilers, tanks an work, ch Engines, TOTAL 1 9 3 5 Boilers, tanks an work, c Engines, TOTAL Table 3 -	d plate iefly chiefly radiators d plate hiefly chiefly PRINCIPA	38 12,728 13 1,473 51 14,202 6, 43 14,124 13 1,293 56 15,417 L STATISTIC	,403 1, ,719 ,122 2, ,191 2, ,173 ,364 2, S, BY PF Average number of emp	792 1,953,6 255 337,3 047 2,291,4 129 2,374,3 281 397,5 410 2,771,8 0VINCES, 193 39 6 Salaries and	\$606 182,6316 11,3182 194,53163 231,33164 and 1935 Cost of fuel and electricit	\$35 2,009, 21 423, 556 2,432, 57 2,240, 571 533, 528 2,774, Cost of by materials	\$ 015 5,461,667 892 1,024,147 907 6,485,814  867 6,129,634 460 1,235,889 327 7,365,523  Gross selling value of products
Boilers, tanks an work, ch Engines, TOTAL 1935 Boilers, tanks an work, c Engines, TOTAL Table 3 Provinces	d plate iefly chiefly radiators d plate hiefly chiefly PRINCIPA	38 12,728 13 1,473 51 14,202 6, 43 14,124 13 1,293 56 15,417 L STATISTIC f Capital s employed	,403 1, ,719 ,122 2, ,191 2, ,173 ,364 2, S, BY PF Average number of emp	792 1,953,6 255 337,3 047 2,291,4 129 2,374,3 281 397,5 410 2,771,8 0VINCES, 193 39 410 2,771,8 410 2,771,8	\$606 182,6316 11,912 194,531,331,331,331,331,331,331,331,331,331	\$35 2,009, 21 423, 556 2,432, 57 2,240, 571 533, 528 2,774, Cost of by materials	\$ 015 5,461,667 892 1,024,147 907 6,485,814  867 6,129,634 460 1,235,889 327 7,365,523  Gross selling value of products
Boilers, tanks an work, ch Engines, TOTAL 1935 Boilers, tanks an work, c Engines, TOTAL Table 3 Provinces	d plate iefly chiefly radiators d plate hiefly chiefly PRINCIPA No. o plant	38 12,728 13 1,473 51 14,202  43 14,124 13 1,293 56 15,417  L STATISTIC  f Capital s employed	,403 1,719 ,122 2, ,191 2, ,173 ,364 2, S, BY PF Average number of emp loyees	792 1,953,6 255 337,3 047 2,291,4  129 2,374,3 281 397,8 410 2,771,8  OVINCES, 193 39 410 2,410 410 2,410 410 410 410 410 410 410 410 410 410 410 410	\$606 182,6316 11,932 194,5352 11,3354 231,3354 231,3354 and 1935 Cost of fuel and electricity at works	\$35 2,009, 21 423, 556 2,432, 557 2,240, 571 533, 528 2,774, 5.  Cost of waterials at works	\$ 015 5,461,667 892 1,024,147 907 6,485,814  867 6,129,634 460 1,235,889 327 7,365,523  Cross selling value of products at works
Boilers, tanks an work, ch Engines, TOTAL 1 9 3 5 Boilers, tanks an work, c Engines, TOTAL Table 3 - Provinces	d plate iefly chiefly radiators d plate hiefly chiefly PRINCIPA No. o plant	38 12,728 13 1,473 51 14,202 6, 43 14,124 13 1,293 56 15,417 L STATISTIC f Capital employed \$	,403 1,719 ,122 2, ,191 2, ,173 ,364 2, S, BY PF Average number of emp loyees	792 1,953,6 255 337,3 047 2,291,4  129 2,374,3 281 397,5 410 2,771,8  COVINCES, 193 39 40 wages 4 171,919	\$606 182,6316 11,932 194,5352 11,3354 231,3354 231,3354 231,3354 231,3354 231,3354 231,3355 2	635 2,009, 21 423, 556 2,432, 557 2,240, 571 533, 528 2,774, 6. Cost of y materials at works	\$ 015 5,461,667 892 1,024,147 907 6,435,814  867 6,129,634 460 1,235,889 327 7,365,523  Gross selling value of products at works \$ 468,907
Boilers, tanks an work, ch Engines, TOTAL 1 9 3 5 Boilers, tanks an work, c Engines, TOTAL Table 3 Provinces	d plate iefly chiefly radiators d plate hiefly chiefly PRINCIPA  No. o plant	38 12,728 13 1,473 51 14,202 3, 43 14,124 13 1,293 56 15,417 4 STATISTIC 6 Capital 6 employed 5 6 1,025,656 9 2,465,54	,403 1,719 ,122 2, ,191 2, ,173 ,364 2, S, BY PF Average number of emp loyees	792 1,953,6 255 337,3 047 2,291,4 129 2,374,3 281 397,3 410 2,771,8 00VINCES, 193 36 Salaries and wages 171,919 431,821	\$606 182,6 816 11,9 122 194,5 502 219,9 552 11,3 64 and 1935 Cost of fuel and electricit at works \$7 15,200 41,821	635 2,009, 21 423, 556 2,432, 657 2,240, 671 533, 628 2,774, 6. Cost of cy materials at works 244,080 475,313 1	\$ 015 5,461,667 892 1,024,147 907 6,485,814  867 6,129,634 460 1,235,889 327 7,365,523  Gross selling value of products at works \$ 468,907 ,380,513
Boilers, tanks an work, ch Engines, TOTAL 1935 Boilers, tanks an work, c Engines, TOTAL Table 3 Provinces  1934 Nova Scot Quebec Ontario	d plate iefly chiefly radiators d plate hiefly chiefly PRINCIPA  No. o plant  ia	38 12,728 13 1,473 51 14,202  43 14,124 13 1,293 56 15,417  L STATISTIC  f Capital s employed  \$ 6 1,025,656 9 2,465,546 6 9,986,066	,403 1, ,719 ,122 2, ,191 2, ,173 ,364 2, S. BY PF Average number of emp loyees 8 1170 7 400 0 1,329	792 1,953,6 255 337,3 047 2,291,4  129 2,374,3 281 397,3 410 2,771,8  OVINCES, 193 se Salaries and wages  171,919 431,821 1,494,492 1	\$606 182,6316 11,3122 194,53154 231,33154 231,	244,080 475,313 1,532,869 423, 423, 423, 423, 556 2,432, 557 2,240, 533, 628 2,774, 6.	\$ 015 5,461,667 892 1,024,147 907 6,435,814  867 6,129,634 460 1,235,889 327 7,365,523  Gross selling value of products at works \$ 468,907 ,380,513 ,158,670
Boilers, tanks an work, ch Engines, TOTAL 1935 Boilers, tanks an work, c Engines, TOTAL Table 3 Provinces  1934 Nova Scot Quebec Ontario . British C	d plate iefly chiefly radiators d plate hiefly chiefly PRINCIPA  No. o plant  ia 2 olumbia	38 12,728 13 1,473 51 14,202  43 14,124 13 1,293 56 15,417  L STATISTIC  f Capital s employed  \$ 6 1,025,656 9 2,465,546 6 9,986,066 8 606,166	,403 1, ,719 ,122 2, ,191 2, ,173 ,364 2, S. BY PF Average number of emp loyees 8 1170 7 400 0 1,329	792 1,953,6 255 337,3 047 2,291,4  129 2,374,3 281 397,3 410 2,771,8  OVINCES, 193 se Salaries and wages  171,919 431,821 1,494,492 1	\$606 182,6 816 11,9 122 194,5 502 219,9 552 11,3 64 and 1935 Cost of fuel and electricit at works \$7 15,200 41,821	244,080 475,313 1,532,869 423, 423, 423, 423, 556 2,432, 557 2,240, 533, 628 2,774, 6.	\$ 015 5,461,667 892 1,024,147 907 6,485,814  867 6,129,634 460 1,235,889 327 7,365,523  Gross selling value of products at works \$ 468,907 ,380,513
Boilers, tanks an work, ch Engines, TOTAL 1935 Boilers, tanks an work, c Engines, TOTAL Table 3 Provinces  1934 Nova Scot Quebec Ontario . British C Manitoba	d plate iefly chiefly radiators d plate hiefly chiefly PRINCIPA  No. o plant  ia columbia	38 12,728 13 1,473 51 14,202  43 14,124 13 1,293 56 15,417  L STATISTIC  f Capital employed  \$ 6 1,025,656 9 2,465,54 6 9,986,066 8 606,166 1)	,403 1, ,719 ,122 2, ,191 2, ,173 ,364 2,  S, BY PF Average number of employees  8 170 7 400 0 1,329 5 122	792 1,953,6 255 337,3 047 2,291,4 129 2,374,3 281 397,5 410 2,771,8 0VINCES, 193 39 40 2,771,8 100 2,771,8 100 2,771,8 101,919 431,821 1,494,492 1 161,069	\$606 182,6 \$16 11,9 \$122 194,5 \$602 219,9 \$52 11,3 \$64 and 1935 Cost of fuel and electricit at works \$75,200 41,821 .28,576 1 6,642	244,080 475,313 1,532,869 4152,438	\$ 015 5,461,667 892 1,024,147 907 6,485,814  867 6,129,634 460 1,235,889 327 7,365,523  Cross selling value of products at works \$ 468,907 ,380,513 ,158,670 404,967
Boilers, tanks an work, ch Engines, TOTAL 1935 Boilers, tanks an work, c Engines, TOTAL Table 3 Provinces  1934 Nova Scot Quebec Ontario . British C Manitoba Saskatche	d plate iefly chiefly radiators d plate hiefly chiefly PRINCIPA  No. o plant  ia olumbia wan	38 12,728 13 1,473 51 14,202  43 14,124 13 1,293 56 15,417  L STATISTIC  f Capital employed  \$ 6 1,025,656 9 2,465,54 6 9,986,066 8 606,16 1) 1) 118,69	,403 1, ,719 ,122 2, ,191 2, ,173 ,364 2.  S, BY PF Average number of employees  8 1170 7 400 0 1,329 5 122 2 26	792 1,953,6 255 337,3 047 2,291,4 129 2,374,3 281 397,8 410 2,771,8 OVINCES, 193 39 Salaries and wages 171,919 431,821 1,494,492 1 161,069 32,121	\$606 182,6316 11,912 194,531,3354 231,3354 231,3355 Cost of fuel and electricity at works  \$75,200 41,821 .28,576 16,642 2,317	235 2,009, 21 423, 256 2,432, 257 2,240, 271 533, 28 2,774, 28 2,774, 29 20 20 20 20 20 20 20 20 20 20 20 20 20	\$ 015 5,461,667 892 1,024,147 907 6,485,814  867 6,129,634 460 1,235,889 327 7,365,523  Gross selling value of products at works \$ 468,907 ,380,513 ,158,670 404,967
Boilers, tanks an work, ch Engines, TOTAL 1935 Boilers, tanks an work, c Engines, TOTAL Table 3 Provinces  1934 Nova Scot Quebec Ontario . British C Manitoba Saskatche	d plate iefly chiefly radiators d plate hiefly chiefly PRINCIPA  No. o plant  ia olumbia wan	38 12,728 13 1,473 51 14,202  43 14,124 13 1,293 56 15,417  L STATISTIC  f Capital employed  \$ 6 1,025,656 9 2,465,54 6 9,986,066 8 606,16 1) 1) 118,69	,403 1, ,719 ,122 2, ,191 2, ,173 ,364 2.  S, BY PF Average number of employees  8 1170 7 400 0 1,329 5 122 2 26	792 1,953,6 255 337,3 047 2,291,4 129 2,374,3 281 397,5 410 2,771,8 0VINCES, 193 39 40 2,771,8 100 2,771,8 100 2,771,8 101,919 431,821 1,494,492 1 161,069	\$606 182,6316 11,912 194,531,3354 231,3354 231,3355 Cost of fuel and electricity at works  \$75,200 41,821 .28,576 16,642 2,317	244,080 475,313 1,532,869 4152,438	\$ 015 5,461,667 892 1,024,147 907 6,485,814  867 6,129,634 460 1,235,889 327 7,365,523  Gross selling value of products at works \$ 468,907 ,380,513 ,158,670 404,967

Table 3 - PRINCIP	AL STA	ATISTICS,	BY PROVI	NCES, 1934	and 1935	(concluded)	
			Average		Cost of		Gross selling
No.	of (	Capital	number	Salaries	fuel and	Cost of	value of
Provinces pla		employed	of emp-	and	electricit	y materials	products at
			loyees	wages	at works	at works	works
		\$		\$	\$	\$	\$
1935							
	6	979,485	155	203,829	15,003	285,199	657,456
	12 2	,530,587	497	527,097	51,871	604,254	1,658,470
		238,400	1,606	1,829,026	156,721 ]	1,698,300 4	1,526,800
British Columbia	9	567,172	128	179,342	5,321	160,220	451,787
Manitoba	1)	11 11					
Saskatchewan	1)	101,720	24	32,560	2,412	26,354	71,010
		,417,364	2,410	2,771,854	231,328	2,774,327	7,365,523

Table 4 - SIZE OF ESTABLISHMENTS ACCORDING TO PRODUCTION, NUMBER OF EMPLOYEES AND CAPITAL EMPLOYED. 1935.

	CA	PITAL EMPLOYED,	1935.	
	Number o	f Capital	Average number	Selling value
	plants	employed	of employees	of products
				at works
		\$		\$
(a) PRODUCTION				
Under \$10,000	5	76,558	15	25,651
\$10,000 to \$25,000	13	405,174	103	223,191
\$25,001 to \$50,000	11	679,127	159	422,044
\$50,001 to \$100,000	6	543,745	112	395,492
\$100,001 to \$250,000	9	3,199,764	452	1,607,585
Over \$250,000	12_	10,512,996	1,569	4,691,560
TOTAL	56	15,417,364	2,410	7,365,523
(b) EMPLOYEES				
1 or 2	3	51,900	5	14,194
3 to 10	16	491,707	100	296,345
11 to 20	14	942,969	223	748,508
21 to 50	6	870,423	184	678,676
51 to 100	9	4,314,170	661	2,461,448
Over 100	8	8,746,195	1,237	3,166,352
TOTAL	56	15,417,364	2,410	7,365,523
(c) CAPITAL				
Under \$25,000	11	152,420	60	115,508
\$25,900 to \$100,900	21	1,199,228	265	749,144
\$100,001 to \$500,000	12	2,148,708	538	2,003,699
\$500,001 to \$1,000,000	7	5,012,022	865	2,606,495
Over \$1,000,000	5	6,904,986	682	1,890,677
TOTAL	56	15,417,364	2,410	7,365,523

Table 5 -	CAPITAL EMPLOYED,	BY PROVINCES	1934 and 1935.

		Inventory value	Operating	
	Present value	of materials on	capital (cash,	
	of lands,	hand, stocks in	bills and	TOTAL
Provinces	buildings,	process, finished	accounts re-	CAPITAL
	machinery and	products, fuel and	ceivable,	EMPLOYED
	equipment	miscellaneous sup-	etc.)	
		plies on hand		
	\$	\$	\$	\$
1934				
Nova Scotia		272,455	118,861	1,025,658
Quebec		320,741	596,039	2,465,547
Ontario	6,727,436	1,570,606	1,688,018	9,986,060
British Columbi		126,644	122,938	606,165
Other provinces	48,157	36,996	33,539	118,692
CANADA	9,315,285	2,327,442	2,559,395	14,202,122
1935				
Nova Scotia	629,219	173,389	176,877	979,485
Quebec	1,748,779	<b>393,79</b> 2	388,016	2,530,587
Ontario	7,906,126	1,634,546	1,697,728	11,238,400
British Columbi		118,605	143,526	567,172
Other provinces	59,936	16,560	25,224	101,720
CANADA	10,649,101	2,336,892	2,431,371	15,417,364

Tahla 6 -	EMPLOYEES	SALARTES	AND WAGES	BY PROVINCES	1934 and 1935.

TO DEC O THE TOTAL	109 011	10638 cm 4767 A	77477 E4 77 C		TO VILLED TO	Zeo z caza		
	Av	erage ni	umber o	f employe	ees			TOTAL
Provinces	On sa	laries	On	wages		Salaries	Wages	SALARIES
	Male	Female	Male	Female	TOTAL			AND WAGES
						\$	\$	\$
1 9 3 4								
Nova Scotia	29	5	136	200	170	50,730	121,139	171,919
Quebec	91	12	297	000	400	169,869	261,952	431,821
Ontario	233	52	1,041	3	1,329	514,010	980,482	1,494,492
British Columbia	19	000	103	0 0 0	122	37,550	123,519	161,069
Other provinces	7	2	17	000	26	11,467	20,654	32,121
CANADA	379	71	1,594	3	2,047	783,626	1,507,796	2,291,422
1935								
Nova Scotia	21	6	127	1	155	45,495	158,334	203,829
Quebec	106	13	378	0 0 0	497	181,067	346,030	527,097
Ontario	287	70	1,243	6	1,606	615,079	1,213,947	1,829,026
British Columbia	22	000	106	000	128	43,481	135,861	179,342
Other provinces	7		17	0 0 0	24	12,027	20,533	32,560
CANADA	443	89	1,871	7	2,410	897,149	1,874,705	2,771,854

Table 7 - WAGE-EARNERS, BY MONTHS, 1934 and 1935. (On the 15th of each month or

nagract	ranragant	offire de	0+01

	1 9	3 4		1935			
Months	Male	Female	TOTAL	Male	Female	TOTAL	
January	1,300	3	1,303	1,708	6	1,714	
February	1,382	3	1,385	1,736	6	1,742	
March	1,534	3	1,537	1,802	6	1,808	
April	1,687	3 3	1,690	1,902	6 7	1,908	
July	1,643	<b>3 3</b>	1,646 1,671	1,990 2,040	7 7	1,9 <b>9</b> 7 2,047	
August	1,621	3 3	1,624	1,916 1,891	7	1,923	
October	1,784 1,586 1,486	333	1,787 1,58 <b>9</b> 1,48 <b>9</b>	1,954 1,816 1,784	777	1,961 1,823 1,791	
AVERAGE	1,594	3	1,597	1,871	7/	1,878	

Table	8 -	FIIFI.	AND	ELEC!	TRICIT	ry HSEI	1934	and	1935.
747740	0	The Prince	RITH T	216211	ے جات ایک جاتب کے	77 05719	13 4 4 4 4 4	PETTE	THE RES ! / SET 10

		193	4	193	5
Kinds	Unit of		Cost at		Cost at
	measure	Quantity	works	Quantity	works
			\$		\$
Bituminous coal - Canadia	nshort ton	3,771	23,477	5,369	32,783
Importe	dshort ton	7,703	52,525	7,275	48,782
Anthracite coal	short ton	166	1,766	185	1,996
Lignite coal	short ton	31	216	33	279
Coke	short ton	1,166	10,502	1,104	9,321
Gasoline	Imp. gal.	23,964	4,643	21,467	4,779
Kerosene	Imp. gal.	2,897	491	2,592	423
Fuel oil	Imp. gal.	48,306	4,511	119,935	11,502
Wood	cord	124	677	328	1,658
Gas - Manufactured	M cu. ft.	1,560	1,517	1,527	1,766
Natural	M cu. ft.	2,241	1,444	3,246	1,983
Other fuel	XXX		537		769
Electricity	K. W. H.	5,805,123	92,250	6,838,438	115,281
TOTAL	XXX	0 '0 0	194,556		231,328

Ta	hla	Q	POWER	FOUIPME	יחותי	34 and	1035
그 전	DIE	-	FURTER	L CAT TE ME	ALIO LO	ान वाप	10000

TABLE 3 - FOREST PROTESTS 1304 ditt To	The second secon	7 4	1 0	P F
	1 9		1 9	3 5
	Number of	Total rated	Number of	Total rated
	units	horse power	units	horse power
Steam engines and turbines	25	2,145	30	2,500
Diesel engines	6	215	2	75
Gasoline, gas and oil engines (except				
diesel)	15	430	17	462
Hydraulic turbines or water wheels	3	62	1	30
Total Primary	49	2,952	50	3,067
Flectric motors run by purchased power	714	18,678	783	15,874
TOTAL	763	21,530	833	18,941
Electric motors run by above primary				
units	162	3,092		
Total Electric Motors	876	21,770	783	15,874
Boilers	29	3,250	26	3,763

Table 10 - POWER EQUIPMENT SUB-DIVIDED BETWEEN IN USE AND IN RESERVE OR IDLE, 1935.

	Ordin	arily in use	In reserve or idle		
	Number of	Total rated	Number of	Total rated	
	units	horse power	units	horse power	
Steam engines and turbines	. 30	2,500			
Diesel engines	. 2	75			
Gasoline, gas and oil engines (except					
diesel)	. 16	442	1	20	
Hydraulic turbines or water wheels	1	30			
Total Primary	. 49	3,047	1	20	
Electric motors run by purchased power		15,784	3	90	
TOTAL	829	18,831	4	110	
Boilers	. 24	3,583	2	180	

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Table 11 -	MATERIALS	USED IN	MANUFACTURING.	1934 and 1935.

Table II - Maibitabo bobb IN Min			3 4	1 9	3 5
W 4 4 3	TI	1 6		1 3	
Materials	Unit of		Cost at		Cost at
	measure	Quantity	works	Quantity	
The second secon			\$		\$
Iron and Steel -					
Pig iron	long ton	6,579	137,242	8,947	185,825
Wrought iron bars, skelp, etc.			8,923	169	9,420
Malleable iron bars, etc			19,202	3	416
Iron castings of all kinds, pur					
chased		964	47,321	810	74,317
Steel (other than special allog					
steel) -					
Castings purchased	short ton	254	25,381	171	29,118
Ingots, blooms and billets.			3,684	010	45 057
Bars and rods			31,262	810	45,953
Forgings			(a)	156	12,599
Shafting			4,426	109	9,391
Sheets - Plain			104,627	2,306	132,390
Galvanized			47,969	233	15,784
Plates - Boiler	short ton	2,092	111,311	4,949	233,518
Other	short ton	11,608	327,980	10,761	245,727
Structural shapes (angles,					
channels, etc.)	short ton	3.715	175,481	3,626	172,256
Strip			(a)	300	16,100
Stampings			(a)	4	838
Boiler tubes		725,532	123,272	705,988	116,860
				25	3,5 <b>9</b> 8
Wire			2,090		
Alloy steel	snort ton	ð	1,704	• • •	1,884
Scrap iron and steel of all		0.003	00 010	22 2 70	100.000
kinds			96,840	11,158	107,209
Other iron and steel	short ton	19	2,680		13,330
Other metals -					
Aluminium	lb.	7,652	3,351	15,724	4,929
Brass and bronze castings pur-					
chased		115,506	38,383	113,068	32,242
Brass and bronze sheets, etc		35,299	8,626	56,503	13,921
Copper bars, sheets, etc		20,561	4,054	31,271	4,930
Lead		4,530	634	4,330	
		(a)	(a)	925	59
Nickel	_	r ·			
Tin		50,640	26,352	41,333	20,512
Zinc	TD.	201,060	8,103	243,610	9,880
Babbitt metals and solder pur-			70 7-1		3 # 60 #
chased		26,338	10,501	44,885	13,325
Other metals not included else-	-				
where	XX		9,880	0 3 0	865
Articles used for further manu-					
facture -					
Parts for engines, boilers,					
etc	xx	0 0 0	270,813	• • •	414,246
Iron and steel pipe and fitt-		000	,020		,
	vv		115,074		105,458
ings		• • •		• • •	
Bolts, nuts, rivets and screw		• • •	44,928		68,422
Electrical goods	XX	0 0 0	5,302	• • •	11,247
Paints, oils and varnishes	XX	0 0 0	18,976		31,390
Other articles of this class.	XX		50,864		36,092

Table 11 - MATERIALS USED IN MANUFACTURING, 1934 and 1935 (concluded)

		1 9	3 4	1 9	3 5
Materials	Unit of		Cost at		Cost at
	measure	Quantity	works	Quantity	works
			\$		\$
Other materials -					
Asbestos and other linings	and				
coverings	· · · XX	0 0 0	2,534		5,077
Foundry coke (not for heat					
power)	short	ton 4,357	48,440	6,437	71,574
Moulding sands			14,115	3,975	16,237
Core sands	short t	ton (a)	(a)	6,475	14,371
Plumbago	lb.	16,388	910	19,980	1,006
Starch	1b.	(a)	(a)	4,178	343
Other foundry facings	lb.	465,034	6,453	210,945	5,505
Patterns and models	· · · XX	> 6 0	3,099		6,790
Lumber	M ft.b.	m. 322	14,622	586	24,432
Firebrick		32,852	2,214	57,882	4,793
Fireclay	short t	ton 408	2,77]	1,051	5,588
Cupola blocks		5,650	908	4,306	754
Core oil		1. 17,140	10,222	22,278	13,573
Core compounds		2,820	138	3	93
Shipping containers			831		832
All other materials			437,964		410,943
TOTAL		0 0 0	2,432,907		2,774,327

(a) Not asked for separately in 1934.

Table 12 - PRODUCTS MADE IN THE BOILERS, TANKS AND ENGINES INDUSTRY, 1934 and 1935.

NOTE - Data in this table are for the Boilers, Tanks and Engines Industry which includes only the manufacturers that made boilers, tanks and engines as their main products. Figures for the individual commodities do not represent the total output in Canada as these articles were made also in other industries.

(See Tables 14. 16 and 18).

(Dee lables 14, 10 and 10):				
	1	9 3 4	1	9 3 5
Products		Selling value		Selling value
	Number	at works	Number	at works
		\$		\$
Heating boilers -				
Cast iron sectional - hot water and				
steam	6,953	701,187	6,998	679,834
Steel firebox, locomotive type	23	7,009	24	12,854
Horizontal return, tubular	7	8,575	19	36,423
Electric welded steel	302	115,612	291	112,397
Steel water tube	4	3,003	6	28,198
Other, kind not specified	4	16,840		
Power boilers -				
Water tube, horizontal type	19	124,580	5	23,809
Water tube, bent tube type	10	72,788	23	124,497
Horizontal return, tubular	47	61,755	41	49,716
Steel firebox, locomotive type	11	17,686	13	19,988
Fire tube, vertical type	131	46,628	131	54,612
Marine type	4	39,138	3	13,249
Other, kind not specified	000	0 0 0	15	19,601
Engines - Steam	36	31,295	41	27,959
Gasoline, marine type	2,489	459,042	3,791	592,364
Stationary type	78	12,365	72	13,120
Other, including diesel,				
aeroplane and railway han	d			
car	1.24	169,278	163	184,174

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Table 12 - PRODUCTS MADE IN THE BOILERS, TANKS AND FNGINES INDUSTRY, 1934 and 1935.

	Conclude	(1)		
	1	9 3 4	1	9 3 5
Products		Selling valu		Selling value
	Number	at works	Number	at works
		\$		\$
		000 850		001 174
Tanks, steel plate		898,356	• • •	991,174
Tanks, sheet steel -		1.61 750		77 304
Pressure	* * *	121,358		33,194
Storage	• • •	107,505	• • •	127,994
Miscellaneous steel plate work -		0.047		0.544
Bins and hoppers	59	8,947		9,746
Smokestacks		27,573	171	30,969
Smoke breeching		6,668	• • •	6,148
Other plate work	0 0 0	259,577		250,032
Radiators for heatingft.	* * *	882,145	4,294,716	1,159,406
Fabricated structural steel	2 000	200.000	0.017	000 100
shapestons	1,692	186,858	2,041	298,162
Parts for boilers		56,305		96,960
Parts for engines	• • •	123,941		62,740
Received for custom work and				
repairs		896,217		849,230
All other products	• • •	1,023,583		1,456,973
TOTAL		6,485,814	• • •	7,365,523

#### DIRECTORY OF FIRMS INCLUDED IN THE BOILERS, TANKS AND ENGINES INDUSTRY, 1935.

NOTE - This is not intended to be a complete list of concerns which made boilers, tanks or engines. It is merely a directory of the firms which made these articles as their main products and which, therefore, were classified to this industry for statistical purposes.

#### Names of Firms

#### Location of Plants

#### (a) ENGINES, CHIEFLY

NOVA SCOTIA Acadia Gas Engines Limited
Atkinson, C. G.
Hawbolt Gas Engines

Bridgewater Shelburne Chester

QUEBEC Canadian Pratt & Whitney Aircraft Co. Ltd.
Canadian Wright Limited and / or
Aero Engines of Canada, Limited

Longueuil

6259 Notre Dame St. E., Montreal

ONTARIO Buchanan, F. L., Limited
Canadian Johnson Motor Company Limited
Kermath Mfg. Co. of Canada, Limited
St. Lawrence Engine Co. Ltd., The
Sylvester Manufacturing Company Limited

129-131 Front St., Orillia Peterborough 619 King St. W., Toronto St. Andrew St., Brockville Lindsay

# DIRECTORY OF FIRMS INCLUDED IN THE BOILERS, TANKS AND ENGINES INDUSTRY, 1935. (continued)

Names of Firms

Location of Plants

# (a) ENGINES, CHIEFLY (concluded)

BRITISH COLUMBIA Easthope Brothers Limited
Empire Mfg. Co. Ltd.
Vivian Engine Works Limited

1747 West Georgia St., Vancouver 1201 West 6th St., Vancouver 1090 West 6th Avenue, Vancouver

## (b) BOILERS, RADIATORS, TANKS AND PLATE WORK, CHIEFLY

NOVA SCOTIA Hogan, T., & Co.
Musgrave, R., & Sons, Ltd.
Robb Engineering Works Ltd.

QUEBEC Canadian John Woods Mfg. Co. Ltd.
Farand & Delorme Ltd.
Latulippe, Michel
La Compagnie de Radiateurs Victoire Ltee.
E. S. Manny Co., The
McKay, Alex, Boiler and Tank Works Reg'd
Morton Engineering and Dry Dock Co., Ltd.
Radiateur Aero Ltee.
Warden King Limited

Weir, J. & R., Ltd.

ONTARIO Babcock-Wilcox and Goldie McCulloch Ltd.
Bell, Robt., Engine and Thresher Co. Ltd.
Campbell Steel and Iron Works Ltd.
Canadian John Wood Mfg. Co. Ltd.
Dominion Radiator and Boiler Co. Ltd.

Gurney Foundry Co. Ltd. Horton Steel Works Ltd. Imperial Iron Corp. Ltd. Inglis, John, Co. Ltd. Leonard, E., and Sons, Ltd. Levy and Westwood Machinery Co. Macpherson, C. F. Napanee Iron Works Ltd. Ottawa Boiler and Steel Works Park, Archibald Pendell Boiler Ltd. Port Colborne Iron Works Ltd. Steel Fabricating & Welding Ltd. Sylvester Manufacturing Co. Ltd. Taylor-Forbes Ltd. Toronto Iron Works Ltd. Winnett, R., & Son

121 Lower Water St., Halifax Commercial St., North Sydney Amherst

2143 St. Patrick St., Montreal
St. Martin St., Montreal
303 Dorchester St., Quebec
927 Perrault Lane, Montreal
1820 Tilford St., Montreal
2162 De Montigny St. E., Montreal
West End, Louise Embankment, Quebec
Plessisville
2104 Bennett Ave., Maisonneuve,
Montreal
33 Nazareth St., Montreal

68 Grand Ave., Galt Seaforth 855 Carling Ave., Ottawa 101 Hanson St., Toronto 1322 Dufferin St., Toronto, 17 S. Market St., Brantford, and Royce and Lansdowne Ave., Toronto 4 Junction Road, Toronto Jennett St., Fort Erie. Berryman Ave., St. Catharines 14 Strachan Aye., Toronto 381 York St., London 346 Dufferin St., Toronto 468 Rideau St., Kingston Ann St., Napanee 158 Queen St. W., Ottawa 165 William Sts. S., Chatham 50 Bartlett Ave., Toronto Frazer St., Port Colborne Dundas Lindsay Queen St., Guelph 629 Eastern Ave., Toronto 271 Hamilton Road, London

# DIRECTORY OF FIRMS INCLUDED IN THE BOILERS, TANKS AND ENGINES INDUSTRY, 1935. (concluded)

#### Names of Firms

Location of Plants

# (b) BOILERS, RADIATORS, TANKS AND PLATE WORK, CHIEFLY (concluded)

MANITOBA - Canadian Brown Steel Tank Co. Ltd.

20th St. and Pacific Ave., Brandon

SASKATCHEWAN -North Western Iron Works Ltd.

1419 Scarth St., Regina

BRITISH COLUMBIA Atlas Boiler & Ship Repair Works
Blain Boiler Works Ltd.
Mainland Boiler Works
Patterson Boiler Works
Vancouver Iron Works Ltd.
Westminster Boiler and Tank Co.

First Ave., Prince Rupert 494 Railway St., Vancouver 496 Alexander St., Vancouver 790 Alexander St., Vancouver 1155 - 6th Ave. W., Vancouver 111 - 11th St., New Westminster

#### SUPPLEMENTARY DATA

## (a) BOILERS

As pointed out in the opening paragraphs of this report the Boilers, Tanks and Engines Industry includes only the firms which made boilers, engines, etc., as their major products so the figures given in Table 12 do not represent the total output in Canada of the commodities which are listed. To provide complete figures for boilers a special compilation has been made covering the reports of all concerns which reported boilers as one of their products.

In all, 48 establishments reported a production of heating or power boilers in 1935. These factories made goods having a total selling value of \$7,326,885 but boilers alone accounted for only \$1,535,896. The principal statistics covering the entire business of these works are given below.

Table 13 - PRINCIPAL STATISTICS FOR ALL ESTABLISHMENTS WHICH REPORTED A PRODUCTION OF BOILERS IN 1934 and 1935.

	1934	1935
Number of manufacturers	48	48
Total capital employed\$	23,246,692	19,143,543
Total number of employees	3,231	2,811
Total salaries and wages \$	3,448,221	3,055,932
Total cost of fuel and electricity\$	349,474	277,815
Total cost of all materials used \$	2,969,000	2,408,329
Selling value of boilers manufactured \$	1,598,541	1,535,896
Selling value of other products manufactured \$	6,440,041	5,790,989
TOTAL SELLING VALUE OF ALL PRODUCTS. \$	8,038,582	7,326,885

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Table 14 - TOTAL	PRODUCTION IN	CANADA OF	HEATING AN	ND POWER	BOILERS,	1934 and	1935.

TRULE IT TOTAL TROBUSTOR IN	1	9 3 4		9 3 5
Types	Number	Total selling	Number	Total selling
	of boilers	value at plant	of boilers	value at plant
		\$		\$
**				
Heating boilers -				
Cast iron sectional hot water.		050 000	7 100	504 300
and steam		859,062	7,186	704,198
Steel firebox, locomotive type		28,549	127	64,926
Horizontal return, tubular	10	9,665	48	62,423
Steel water tube	9	4,753	10	30,854
Steel welded		115,612	291	112,397
Power boilers -				TELL SECTION
Water tube, horizontal type	19	124,580	5	23,809
Water tube, vertical type		91,164	9	12,900
Water tube, bent tube type		16,000	25	142,997
Horizontal return, tubular		81,001	48	55,768
Marine type - internally fired		14,052	3	13,249
Marine type, water tube	. 2	27,086	2	38,000
Steel firebox, locomotive type	11	17,686	24	21,728
Firetube, vertical type		49,823	140	56,535
Boilers, type not specified		159,906		196,112
TOTAL	9,030	1,598,939		1,535,896

## LIST OF ALL CONCERNS WHICH REPORTED A PRODUCTION OF HEATING OR POWER BOILERS IN 1935.

#### Names of Firms

Atlas Boiler & Ship Repair Works Babcock-Wilcox and Goldie McCulloch Limited Bastian-Morley Limited Beaver Foundry & Furnace Works Belanger, O., Enrg. Bell, Robt., Engine and Thresher Co., The Blain Boiler Works, Ltd. Campbell Steel and Iron Works Limited Canadian Brown Steel Tank Company Limited Canadian Vickers Ltd. Chalifoux & Fils, Limitee Dominion Radiator and Boiler Co. Ltd. Farand & Delorme Limited Foster Wheeler Limited Gurney Foundry Co. Ltd., The Hogan, T., & Company Imperial Iron Corporation, Ltd. Inglis, John, Company Limited, The La Cie. de Machineries Mercier Latulippe, Michel Leonard, E., and Sons Limited Manny, E. S., Co. Matheson, I., & Co., Ltd. Marine Iron Works Limited McKay, Alex, Boiler & Tank Works Reg'd Morton Engineering & Dry Dock Co., Ltd. Napanee Iron Works Limited

### Location of Plants

Prince Rupert, B. C. Galt, Ont. Toronto, Ont. Tillsonburg, Ont. Montreal, P. Q. Seaforth, Ont. Vancouver, B. C. Ottawa, Ont. Brandon, Man. Montreal, P. Q. St. Hyacinthe, P. Q. Toronto, Ont. Montreal, P. Q. St. Catharines, Ont. Toronto, Ont. Halifax, N. S. St. Catharines, Ont. Toronto, Ont. Levis, P. Q. Quebec, P. Q. London, Ont. Montreal, P. Q. New Glasgow, N. S. Victoria, B. C. Montreal, P. Q. Quebec, P. Q. Napanee, Ont.

#### Names of Firms

Ottawa Boiler and Steel Works Patterson Boiler Works Pendell Boiler Limited Port Colborne Iron Works Limited Robb Engineering Works Limited Saint John Iron Works Limited Spencer Foundry Co., Ltd. Standard Iron Works Limited, The Stephens-Adamson Mfg. Co. of Canada, Ltd. Stewart, Bruce, & Co., Limited Taylor-Forbes Limited Thompson & Sutherland Limited Vancouver Iron Works Ltd. Victoria Machinery Depot Co. Ltd. Vulcan Iron Works Limited Warden-King Limited Waterous Limited Wayne Forge & Machine Co., Ltd. Weir, J. & R., Ltd. White, George, & Sons Co. Ltd.

#### Location of Plants

Ottawa, Ont. Vancouver, B. C. Toronto, Ont. Port Colborne, Ont. Amherst, N. S. Saint John, N. B. Penetanguishene, Ont. Edmonton, Alta. Belleville, Ont. Charlottetown, P. E. I. Guelph, Ont. North Sydney, N.S. Vancouver, B. C. Victoria, B. C. Winnipeg, Man. Montreal, P. Q. Brantford, Ont. Toronto, Ont. Montreal, P. Q. London, Ont.

#### (b) HEATING RADIATORS

Table 15 - TOTAL PRODUCTION OF HE	CATING RADIA	TORS, 1934 and	1935.	
	1	9 3 4	1 9	3 5
		Selling value		Selling value
	Quantity	at works	Quantity	at works
		\$		\$
Direct or standing type	sq.ft	. 1,027,726	4,137,759	1,101,332
Concealed type	sq.ft	. 53,774	446,957	101,137

#### LIST OF CONCERNS WHICH REPORTED A PRODUCTION OF HEATING RADIATORS IN 1935.

#### Names of Firms

Dominion Hadiator and Boiler Co. Ltd.
Gurney Foundry Co. Limited
Imperial Iron Corporation Limited
La Compagnie de Radiateurs Victorie Ltee.
Radiateur Aero Limitee
Taylor Forbes Ltd.
Trane Company of Canada, Limited
Vapor Car Heating Co. of Canada, Limited
Warden King Limited

#### Location of Plants

Royce and Lansdowne Aves., Toronto, Ont. 4 Junction Road, Toronto, Ont. Berryman Ave., St. Catharines, Ont. 927 Perrault Lane, Montreal, Que. Plessisville, Que. Queen St., Guelph, Ont. King & Mowat Sts., Toronto, Ont. 61-65 Dalhousie St., Montreal, Que. 2104 Bennett Ave., Montreal, Que.

A special compilation covering all industries shows that 27 establishments in Canada reported a production of engines (except automobile engines) in 1935. The principal statistics for these works are given below. The value of all products of these firms was \$6,127,153 of which engines accounted for only \$938,676.

Table 16 - PRINCIPAL STATISTICS FOR ALL ESTABLISHMENTS WHICH REPORTED A PRODUCTION OF OF ENGINES OF ALL KINDS IN 1934 and 1935.

	1 9 3 4	1935
Number of manufacturers	30 27,486,693 2,064 2,295,085 212,352 1,940,821	27 28,674,381 2,415 2,867,293 220,461 2,625,374
Selling value of engines made \$ Selling value of all other products \$ TOTAL SELLING VALUE OF PRODUCTS \$	877,862 3,800,892 4,678,754	938,676 5,183,477 6,127,153

Table 17 - TOTAL PRODUCTION OF ENGINES, 1935.

NOTE - Figures in this table have been assembled from all industries and represent

the TOTAL OUTPUT IN CANADA  Types	Number of engines	Total horse	Selling value at works
17000	CISCALION		*
Steam		• • •	73,519
Gasoline - Marine type	3,791	24,977	592,364
Stationary type	72	291	13,120
Aeroplane, hand car and			
railway motor car	140	6,855	98,459
Diesel		***	87,234
Type not specified	• • •		73,980
TOTAL ENGINES (except automobile)			938,676
utomobile engines	61,137	not	available

LIST OF ALL CONCERNS IN CANADA WHICH REPORTED A PRODUCTION OF ENGINES IN 1935.

#### Names of Firms

Acadia Cas Engines Limited Atkinson's Limited Babcock-Wilcox and Goldie-McCullough Ltd. Buchanan, F. L., Limited Canadian Johnson Motor Co. Ltd. Canadian Pratt & Whitney Aircraft Co. Ltd. Canadian Wright Ltd., and Aero Engines of Canada, Ltd. Desjardins Limitee Dominion Engineering Works Ltd. Easthope Brothers Limited Hawbolt Gas Engines Ker and Goodwin Machinery Co. Ltd., The Kermath Mfg. Co. of Canada, Ltd. Lunenburg Foundry Co. Ltd. Massey-Harris Company Limited

#### Location of Plants

Bridgewater, N. S. Shelburne, N. S. Galt, Ont. Orillia, Ont. Peterborough, Ont. Longueuil, P. Q.

Montreal, P. Q.
St. Andre de Kamouraska, P. Q.
Lachine, Que.
Vancouver, B. C.
Chester, N. S.
Brantford, Ont.
Toronto, Ont.
Lunenburg, N. S.
Toronto, Ont.

# LIST OF ALL CONCERNS IN CANADA WHICH REPORTED A PRODUCTION OF ENGINES IN 1935. (concluded)

#### Names of Firms

# Location of Plants

Matheson, I., & Co., Ltd.

Montreal Locomotive Works Limited
Oxford Foundry & Machine Co. Ltd.
Plessisville Foundry, The
Robertsonville Foundry Co. Ltd.
Stewart, Bruce, & Co., Ltd.
St. Lawrence Engine Co. Ltd., The
Sylvester Manufacturing Co. Ltd., The
Thompson Brothers Machinery Co., Ltd.
Tyee Machinery Corp. Ltd.
United Steel Corporation Ltd.
Vivian Gas Engine Works
Wilson Machine Co. Ltd.
(x) Ford Motor Company of Canada, Limited
(x) General Motors of Canada, Limited

New Glasgow, N. S.
Montreal, P. Q.
Oxford, N. S.
Plessisville, P. Q.
Robertsonville, P. Q.
Charlottetown, P. E. I.
Brockville, Ont.
Lindsay, Ont.
Liverpool, N. S.
Vancouver, B. C.
Vancouver, B. C.
Wancouver, B. C.
Montreal, P. Q.
East Windsor, Ont.
Walkerville, Ont.

(x) Made automobile engines for own use.

#### (d) STEEL TANKS

Table 18 - PRODUCTION OF TANKS IN CANADA,			1931 - 1935.	
	Sheet Steel		Steel plate	Tank and plate
			(water tanks,	work done by bridge
	Pressure	Storage	transformer	and structural
			tanks, etc.)	steel companies
	\$	\$	\$	\$
1931	209,470	662,723	268,046	900,059
1932	95,544	333,633	496,012	589,940
1933	80,416	206,273	915,482	470,399
1934	130,496	454,380	944,798	312,753
1935	59,149	461,204	1,090,905	398,449

#### LIST OF CONCERNS WHICH REPORTED A PRODUCTION OF STEEL TANKS 1935.

Bruce Stewart & Co., Limited Lunenburg Foundry Co. Ltd. John Abrams' Sons Limited Saint John Iron Works Limited La Fonderie Ouellet Enrg. Toronto Hardware Mfg. Co. Ltd. Belleville Foundries Limited John East Iron Works Limited Riverside Iron Works, Limited The Standard Iron Works Limited Victoria Machinery Depot Co. Ltd. Western Steel Products Ltd. Bernard Charland & Cie. The Grimm Mfg. Co. Ltd. The Whittall Can Co. Ltd. Eastern Steel Products Limited Thomas Irwin & Son, Limited Plate & Structural Steel Products Co.

Foot of George St., Charlottetown, P.E.I. Lunenburg, N. S. 62 Foundry St., Moncton, N. B. Saint John, N. B. St. Leonard, P. Q. 390-476 Dufferin St., Toronto, Ont. 11 Station St., Belleville, Ont. 121 Ave. C. N., Saskatoon, Sask. 803 - 24th Ave. S. E., Calgary, Alta. 121st St. and 106th Ave., Edmonton, Alta. 343 Bay St., Victoria, B. C. 4107 Richelieu St., Montreal, P. Q. Cor. 1st Ave. and 4th St., Quebec, P. Q. 736 Wellington St., Montreal, P. Q. 2600 Mullins St., Montreal, P. Q. 1335 Delorimier Ave., Montreal, P. Q. 22 McNab St. S., Hamilton, Ont. 48 Abell St., Toronto, Ont.

1 James St., Tweed, Ont.

W. Gordon Steel Works Ltd.
W. D. Beath & Son, Limited
Fastern Steel Products Ltd.
Vulcan Iron Works Limited
Alex. McKay Boiler & Tank Works Reg'd
Morton Engineering & Dry Dock Co. Ltd.
J. and R. Weir, Ltd.
Canadian John Wood Mfg. Co. Ltd.
T. Hogan & Company

Robb Engineering Works Ltd.
National Trust Co. Ltd.
Buffalo Sheet Metal Works
Canadian Corrugating & Stamping Co.
Western Steel Products Ltd.

Waterman Waterbury Mfg. Co. Ltd. Western Steel Products Ltd. Norwood Sheet Metal Works Western Steel Products Ltd. Western Steel Products Ltd. Farand & Delorme Ltd. Blain Boiler Works Ltd. Patterson Boiler Works Vancouver Iron Works Ltd. Westminster Boiler & Tank Co. E. Leonard & Sons, Ltd. R. Winnett & Son Horton Steel Works Ltd. Campbell Steel & Iron Works Limited Ottawa Boiler and Steel Works The Toronto Iron Works Limited Port Colborne Iron Works Limited C. E. Macpherson Steel Fabricating & Welding Limited Archibald Park Pendell Boiler Limited Napanee Iron Works Limited The John Inglis Co. Ltd. Canadian John Wood Mfg. Co. Ltd. Warp Tension Governors Ltd. West's Co. The A. B. Ormsby Co. Ltd. W. G. Humphrey Sheet Metal Canadian John Wood (Vancouver) Ltd. Pacific Pipe & Flume Limited Western Steel Products Limited Foster Wheeler Limited Manitoba Bridge & Iron Works Ltd. Canadian Vickers Limited Marine Iron Works Ltd.

394 Symington Ave., Toronto 9, Ont. 308 Guelph St., Preston, Ont. Point Douglas Ave., Winnipeg, Man. 2162 Demontigny St. E., Montreal, P. Q. West Fnd Louise Embankment, Quebec, P.Q. 33 Nazareth St., Montreal, P. Q. 2143 St. Patrick St., Montreal, P. Q. 121-125 Lower Water St., and 298 Upper Water St., Halifax, N. S. Amherst, N. S. St. Boniface, Man. 251 Princess St., Winnipeg, Man. 515 Archibald St., St. Boniface, Man. Cor. Ave. G. and 22nd St., Saskatoon, Sask. Seventh and Rose St., Regina, Sask. Regina, Sask. 9568 - 111th Ave., Edmonton, Alta. 902 - Eleventh St., Calgary, Alta. 7900 - 115th St., Edmonton, Alta. St. Martin St., Montreal, P. Q. 494 Railway St., Vancouver, B. C. 750 Alexander St., Vancouver, B. C. 1155 West Sixth Ave., Vancouver, B. C. 111 Eleventh St., New Westminster, B.C. 381 York St., London, Ont. 271 Hamilton Rd., London, Ont. Jennett St., Fort Erie, Ont. 855 Carling Ave., Ottawa, Ont. 158 Queen St. W., Ottawa, Ont. 620 Eastern Ave., Toronto, Ont. Fraser St., Port Colborne, Ont. 468 Rideau St., Kingston, Ont. Brock and Hatt Sts., Dundas, Ont. 165 William St. S., Chatham, Ont. 50 Bartlett Ave., Toronto, Ont. Ann St., Napanee, Ont. 14 Strachan Ave., Toronto, Ont. 101 Hanson St., Toronto, Ont. 303 Water St. W., Cornwall, Ont. Cor. Norfolk and Union Sts., Simcoe, Ont. 172 Van Horne St., Toronto, Ont. 539 Maine St., Vancouver, B. C. Granville Island, Vancouver, B. C. Winnipeg St., Penticton, B. C. Granville Island, Vancouver, B. C. St. Catharines, Ont. 875 Logan Ave., Winnipeg, Man. 5136 Notre Dame E., Montreal, P. Q. 515 Pembroke St., Victoria, B. C.

Dominion Bridge Company, Ltd.

Mackinnon Steel Corp. Ltd.
Canadian Bridge Company Limited
Hamilton Bridge Co. Ltd.
Dominion Bridge Company, Limited
T. J. Eansor & Sons, Limited
London Structural Steel Co.
Western Bridge Co. Ltd.
Dominion Bridge Co. Ltd.
Dominion Bridge Company, Ltd.

Winnipeg, Man., Calgary, Alta., and Lachine, P. Q.
Sherbrooke, P. Q.
Walkerville, Ont.
Hamilton, Ont.
Toronto, Ont.
Windsor, Ont.
London, Ont.
Vancouver, B. C.
Ottawa, Ont.
Vancouver, B. C.

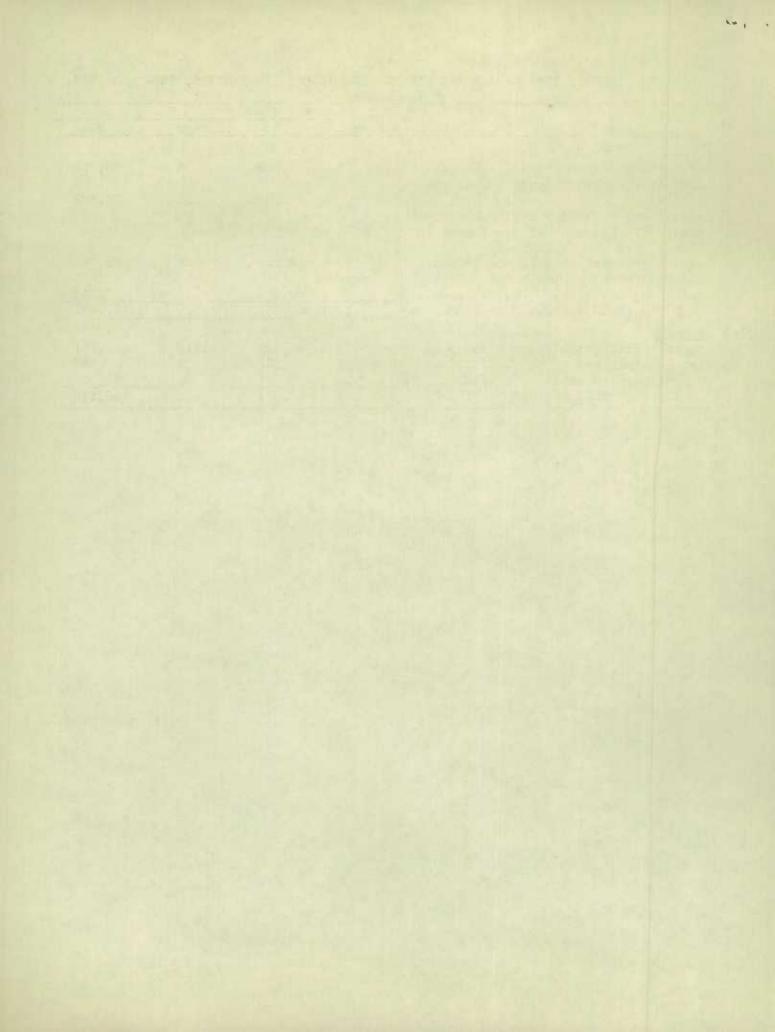
Table 19 - IMPORTS INTO CANADA AND EXPORTS OF BOILERS AND ENGINES, 1934 and 1935.

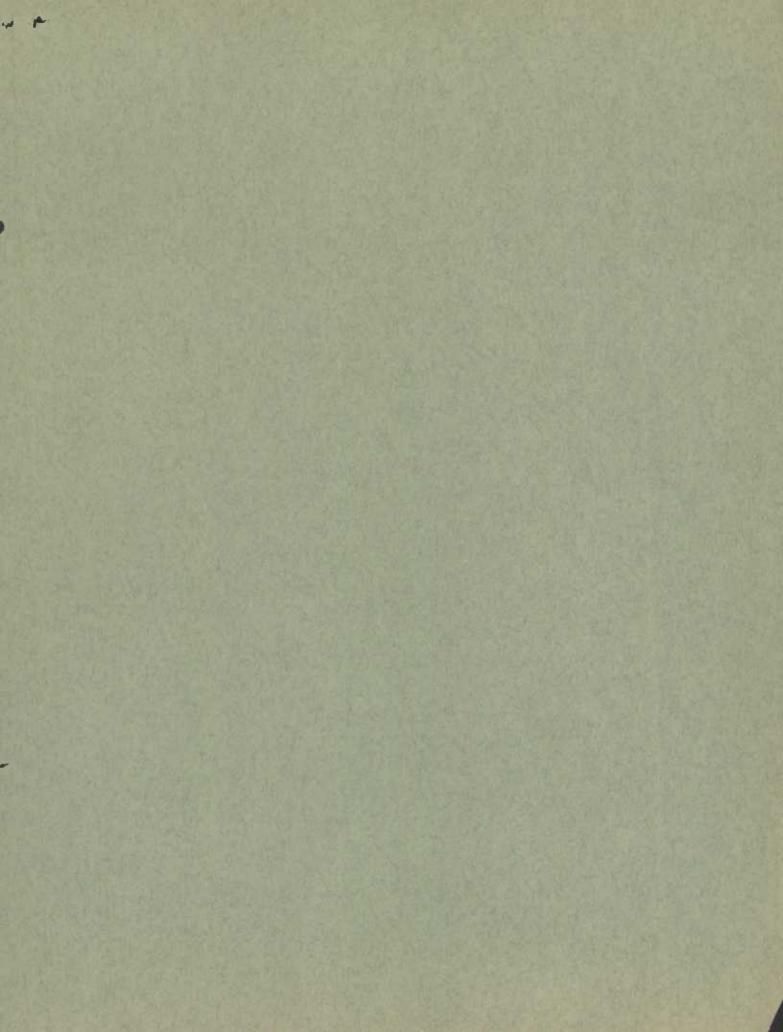
Table 19 - IMPORTS INTO CANADA AND EX	1 9	3 4	1 9 3	5
Items	Number	\$	Number	\$
IMPORTS				
Boilers and complete parts		70,869	• • •	70,571
Engines, automobile, and complete	94 704	A 015 105	0.6 7.49	E E70 C00
parts thereof, n. o. p Engines, diesel and semi-diesel	24,304	4,815,125	26,742	5,538,698
and complete parts, n. o. p	305	762,673	542	1,054,447
Engines, internal combustion, and				
parts, marine, n. o. p	256	145,217	456	175,463
Engines, internal combustion and steam, of a class not made in				
Canada, for use only in the manu-				
facture of motor trucks for carry-		150 000	. 740	707 400
ing goods only	5,452 16	458,8 <b>9</b> 2 44,865	4,148	391,686 38,314
Engines, steam, n. o. p., and parts Engines and complete parts thereof,	10	44,500	6.17	00,014
to be used exclusively in the pro-				
pulsion of boats or in hoisting				
nets and lines used in such boats,				
bona fide owned by individual fishermen for their own use in the				
fisheries	70	16,746	78	19,807
Engines and complete parts thereof,				
when imported for use only in the	19	CO 7EC	70	010 000
equipment of aircraft  Fingines for motor trucks or motor	19	62,356	79	218,966
buses, when of 100 h. p. or more	4	8,805	3	6,123
Outboard motors and parts	730	81,572	970	75,074
Air-cooled internal combustion				
engines of not greater than $l_{\overline{2}}^{\frac{1}{2}}$ h.p. rating, and complete parts thereof				
(From April 1, 1935)		• • •	354	8,100
Engines, internal combustion, n.o.p.,				
and parts	2,848	406,913	5,826	528,331
Fire engines and other fire extinguishing machines and chassis				
for same; complete parts of the				
foregoing, n. o. p		• • •	41	5,053

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Table 19 - IMPORTS INTO CANADA AND EXPORTS OF BOILERS AND FNGINES, 1934 and 1935.

(concluded) 3 9 4 Items Number Number IMPORTS - concluded 2,039 8 39,825 Locomotives for railways ..... 2 Locomotive chassis, tops, wheels and 12,270 25,689 bodies ..... Locomotives and motor cars for railways, of a class or kind not made in Canada, for use exclusively in mining or metallurgical operations. 19 54,225 25 68,738 Complete parts for the repair of aircraft engines ..... 68,074 92,546 TOTAL IMPORTS ENGINES & BOILERS ... 7,010,641 8,357,431 EXPORTS 1,119 Internal combustion engines and parts 236 45,461 124,151 Steam engines and parts ...... 1 349 3 859 6,561 15,602 Locomotives and parts ...... . . . . . . TOTAL EXPORTS ENGINES & BOILERS 52,371 140,612 . . . . . .





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