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THE BOILERS, TANKS AND ENGINES INDUSTRY IN CANADA, 1928.

Production from the boilers, tanks and engines industry in Canada during 1928 was valued at \$6,507,437, an increase of 9 per cent over the total of \$5,945,694 for 1927, which in turn was 11 per cent greater than the value of \$5,343,208 reported for 1926. According to data compiled by the Dominion Bureau of Statistics at Ottawa, this output was the highest recorded since 1921 when production was valued at \$6,960,170.

Statistics for this industry cover the operations of all concerns which made boilers, tanks or engines as their principal product; but do not include the production data for other industries that built boilers, tanks or engines as a minor line. Such concerns are classified in other industrial groups according to the nature of their main product. Data in this bulletin, therefore, should be read in conjunction with the rest of the series on "Iron and Steel and Their Products."

Thirty-five concerns reported in this group in 1928, there being 19 in Ontario, 8 in British Columbia, 4 in Nova Scotia and 4 in Quebec. These establishments reported fixed and working capital at \$9,352,068, afforded employment to a monthly average of 1,752 people and paid out \$2,393,300 in salaries and wages during the year. Payments for purchased materials amounted to \$3,223,497 and the value added by manufacturing processes was \$3,278,940.

Among the commodities produced in this industry in 1928 were: 536 power boilers rated at 42,455 h.p. and valued at \$927,285; 358 heating boilers with a total rating of 21,090 h.p. worth \$362,971; 3,002 engines of all kinds with an aggregate rating of 19,491 h.p. valued at \$747,060; 6,130 storage and pressure tanks at \$512,549; heating and ventilating equipment, \$375,733; pulverized fuel equipment, \$198,280; mining and metallurgical machinery, \$175,799; pumps, \$109,691; and many other lines including safes, vaults and fittings; hydraulic turbines and water wheels; galvanized range boilers; structural steel; boats, smokestacks and smoke brooching; castings, etc.

Table 1. - PRINCIPAL STATISTICS OF THE BOILERS, TANKS AND ENGINES INDUSTRY IN CANADA, 1924-1928.

Year	No. of plants	Capital employed	Average no. of employees	Salaries and wages	Cost of materials at works	Selling value of products at works	Value added by manufacturing
1924...	32	\$9,140,981	1,242	\$1,619,323	\$1,588,530	\$3,667,610	\$2,079,080
1925...	32	3,638,759	1,337	1,852,540	2,322,793	4,540,706	2,217,908
1926...	34	8,890,350	1,532	1,995,722	2,576,122	5,343,208	2,767,086
1927...	33	9,329,528	1,654	2,200,204	2,853,951	5,945,694	3,091,743
1928...	35	9,352,068	1,752	2,393,300	3,223,497	6,507,437	3,278,940

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Table 2. - PRODUCTS (x) OF THE BOILERS, TANKS AND ENGINES INDUSTRY IN CANADA, 1927 and 1928.

Items	Unit of measure	1 9 2 7		1 9 2 8	
		Quantity	Value \$	Quantity	Value \$
Bins and hoppers.....No..	...	...	24,951	...	38,392
Boilers, heating -					
Steel firebox, locomotive type.....No.	110	119,715	110	119,715	61,239
Horizontal return tubular.....No.	35	45,338	101	61,239	82,525
Steel water tube.....No.	65	89,032	59	82,525	86,548
Other heating.....No.	3	1,160	88	86,548	
Boilers, power -					
Water tube, horizontal type.....No.	46	489,366	23	128,889	62,089
Water tube, vertical type.....No.	5	46,499	16	62,089	135,900
Water tube, bent tube type.....No.	6	114,592	18	135,900	305,993
Horizontal return tubular.....No.	195	272,612	244	305,993	100,905
Marine type.....No.	15	87,015	11	100,905	63,382
Steel firebox, locomotive type.....No.	26	41,727	30	63,382	80,127
Fire tube, vertical type.....No.	168	76,704	194	80,127	22,042
Castings, iron or steel.....short ton	302	27,447	176	22,042	
Engines -					
Steam, single cylinder, horizontal.....No.	23	69,356	15	55,156	17,210
Steam, other.....No.	7	15,812	10	17,210	591,094
Gasoline, marine type.....No.	897	417,771	2,690	591,094	49,245
Gasoline, stationary.....No.	71	14,140	104	49,245	34,355
Gasoline, other.....No.	222	40,204	183	34,355	375,733
Heating and ventilating equipment,n.e.s....	...	294,549	...	375,733	175,799
Mining and metallurgical machinery.....	...	298,614	...	175,799	27,502
Panstocks and rivetted steel pipe.....	...	19,376	...	27,502	198,280
Pulverized-fuel equipment.....	...	65,012	...	198,280	109,691
Pumps.....No.	508	194,245	453	109,691	31,157
Road-making machinery.....	...	...	...	31,157	32,628
Smoke breeching.....No.	...	41,149	163	32,628	53,239
Smokestacks, steel.....No.	201	39,819	211	53,239	
Tanks -					
Pressure.....No.	688	78,931	691	59,759	452,790
Storage.....No.	5,526	428,180	5,439	452,790	133,678
Parts for boilers.....	...	110,445	...	133,678	66,590
Parts for engines.....	...	89,480	...	66,590	102,266
Accessories for boilers and engines.....	...	71,273	...	102,266	1,639,386
All other products (1).....	...	1,434,950	...	1,639,386	951,189
Amount received for custom work and repairs	...	785,630	...	951,189	
TOTAL.....	...	5,945,694	...	6,507,437	

(x) Figures in this table do not necessarily represent the total output in Canada of the commodities listed as there may be also a production in other industrial groups; for complete data this bulletin must be read in conjunction with the rest of the series on "Iron and Steel, and Their Products."

(1) Includes galvanized range boilers, superheaters and parts, safes vaults and fittings; hand and push cars; oil refining equipment; separators, steel tugs; structural steel work; elevating and conveying machinery; sulphite digesters; hydraulic turbines and various other products.

Table 3.- PRODUCTION OF BOILERS, TANKS AND ENGINES IN CANADA, BY INDUSTRIES, 1927 and 1928.

Item	Industry	1927		1928	
		Number	Selling value	Number	Selling value
Boilers -	Castings and Forgings.....	12,561	1,742,273	13,855	1,890,145
	Boilers, Tanks and Engines.....	674	1,384,002	...	1,291,259
	Agricultural Implements and				
	Machinery.....	...	21,125	...	16,375
	Machinery.....	26	85,735	54	77,921
Engines -	Castings and Forgings.....	...	112,806	...	81,299
	Boilers, Tanks and Engines.....	1,220	557,283	2,996	738,169
	Agricultural Implements and				
	Machinery.....	4,403	364,609	1,327	156,274
	Machinery.....	...	87,128	111	38,958
	Automobile.....	49,342	...	97,288	...
	Miscellaneous Iron and Steel.....	7	30,000	...	...
Tanks -	Castings and Forgings.....	...	425,799	...	453,270
	Boilers, Tanks and Engines.....	6,214	507,111	10,532	551,992
	Agricultural Implements and				
	Machinery.....	...	24,749	...	32,540
	Machinery.....	...	634,305	...	799,750
	Automobile Accessories.....	...	...	1	859
	Sheet Metal Products.....	...	358,755	...	371,929
	Miscellaneous Iron and Steel.....	...	649,328	...	857,026



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