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Products and by-products from artificial gas plants in Canada during 1927 were valued at \$18,725,869, an increase of almost 3 per cent over the corresponding figure for 1926, according to data compiled and published by the Mining, Metallurgical and Chemical Branch of the Dominion Bureau of Statistics at Ottawa. The output of artificial gas in this industry totalled 14,758,928 M. cubic feet of which 13,273,413 M. cubic feet were sold for \$15,157,327 and the remainder was used as fuel in the reporting plants or was unaccounted for. In addition, 18,097,241 M. cubic feet of gas were produced in by-product coke plants and 1,719,394 M. cubic feet of still gas were produced in the process of refining petroleum; most of this output was used as a fuel in the reporting plants or in associated metallurgical works, but 2 companies in Ontario distributed coke-oven gas for domestic or industrial purposes.

Statistics in this bulletin refer only to the illuminating and fuel gas industry which includes all plants producing coal gas, water gas, pintsch oil gas and acetylene gas as major products. The 42 plants in this industry in 1927 were distributed as follows: 1 in Nova Scotia, 2 in New Brunswick, 4 in Quebec, 20 in Ontario, 8 in Manitoba, 2 in Saskatchewan, 1 in Alberta and 4 in British Columbia. Capital employed amounted to \$58,931,873 the monthly average number of employees was 3,493, salaries and wages totalled \$4,750,581, and the cost of materials used was \$6,178,791. Sales of gas totalled 13,213,413 M. cubic feet worth \$15,157,327 and the value of by-products was \$3,568,542 as compared with sales of gas at \$14,417,652 and by-products valued at \$3,847,208 in 1926.

Of the producing plants, 11 made straight coal gas only; 8 produced carburetted water gas only; 5 made both coal and water gas; 3 manufactured mixed coal and water gas; 9 others made oil gas and 6 others made acetylene gas from calcium carbide.

TABLE 1.- PRINCIPAL STATISTICS OF THE ILLUMINATING AND FUEL GAS INDUSTRY IN CANADA,  
1923-1927.

Years	No. of plants	Capital employed \$	No. of employ- ees	Salaries and wages \$	Cost of materials \$	Selling value of products \$	Value added by manufacturing \$
1923 .....	45	45,526,495	3,021	3,801,832	9,024,084	19,605,340	10,581,256
1924 .....	44	42,818,276	3,648	4,835,351	6,772,576	18,101,724	11,329,148
1925 .....	44	46,129,651	3,804	5,057,702	6,178,609	17,874,479	11,695,870
1926 .....	44	54,273,267	3,678	4,883,521	6,226,100	18,264,860	12,038,760
1927 .....	42	58,931,872	3,493	4,750,581	6,178,791	18,725,869	12,547,078

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TABLE 2.- PRINCIPAL STATISTICS OF THE ILLUMINATING AND FUEL GAS INDUSTRY IN CANADA,  
BY PROVINCES, 1926 and 1927.

Province	No. of plants	1 9 2 6			No. of plants	1 9 2 7		
		No. of employ- ees	Salaries and wages \$	Selling Value of products \$		No. of employ- ees	Salaries and wages \$	Selling Value of products \$
Quebec.....	4	1,018	1,271,078	6,345,445	4	799	1,108,697	6,663,667
Ontario.....	21	2,018	2,770,977	9,057,735	20	1,963	2,708,439	8,987,315
Manitoba.....	8	171	244,833	1,199,555	8	164	244,595	1,245,618
British Columbia	5	355	459,607	1,267,630	4	440	545,794	1,374,048
CANADA (x)	44	3,678	4,883,521	18,264,860	42	3,493	4,750,581	18,725,869

(x) Includes also data for 1 plant in Nova Scotia, 2 in New Brunswick, 2 in Saskatchewan, and 1 in Alberta.

TABLE 3.- MATERIALS USED IN THE ILLUMINATING AND FUEL GAS INDUSTRY IN CANADA, 1926 and 1927.

Item	Unit of Measure	1 9 2 6		1 9 2 7	
		Quantity	Value \$	Quantity	Value \$
Bituminous coal for gas-making:-					
(a) Canadian.....	short ton	80,923	416,645	122,278	771,220
(b) Foreign.....	" "	620,360	3,857,538	502,551	2,997,319
Anthracite coal for gas-making.....	" "	3,477	41,277	225	3,130
Coke for gas-making:-					
(a) Purchased.....	" "	6,663	70,101	6,729	72,957
(b) Companies own make	" "	91,537	592,885	144,834	870,423
Oil (gas oil) for gas-making.....	Imp. Gal.	12,155,649	1,133,157	14,548,244	1,364,546
Benzine, gasoline, naphtha, etc.....	" "	75,587	9,443	...	...
Calcium carbide.....	Pound	311,770	14,344	293,090	13,004
Lime.....	"	820,000	3,595	574,955	2,603
Water.....	"	...	10,334	...	7,012
Oxide for purifying materials.....	short ton	4,995	48,692	2,948	32,315
All other materials.....	-	...	28,089	...	44,262
TOTAL COST.....		...	6,226,100	...	6,178,791

TABLE 4.- PRODUCTS OF THE ILLUMINATING AND FUEL GAS INDUSTRY IN CANADA, 1926 and 1927.

Item	Unit of Measure	1 9 2 6		1 9 2 7	
		Quantity	Value \$	Quantity	Value \$
Gas Production:					
Straight coal gas.....	M. cu.ft.	8,352,129	...	7,890,534	...
Carburetted water gas..	"	5,408,725	...	6,539,116	...
Mixed coal and water gas	"	236,753	...	259,632	...
Oil gas.....	"	68,675	...	68,352	...
Acetylene gas.....	"	1,394	...	1,294	...
TOTAL GAS MADE.....	"	14,067,676	...	14,758,928	...
Gas Sold - Quantity.....	M. cu.ft.	12,573,892	...	13,273,413	...
Income from gas sold...	\$	...	14,417,652	...	15,157,327
By-Products:					
Coke.....	short tons	471,096	3,073,150	443,776	2,799,177
Tar and tar products...	Imp. gals.	7,004,607	635,782	8,798,048	665,335
Ammonia liquor.....	lb. NH <sub>3</sub>	3,430,683	63,973	1,184,760	27,869
Other by-products.....	-	...	74,303	...	76,161
TOTAL BY-PRODUCTS...	-	...	3,847,208	...	3,568,542
TOTAL VALUE OF GAS SOLD AND BY-PRODUCTS MADE.....		...	18,264,860	...	18,725,869

