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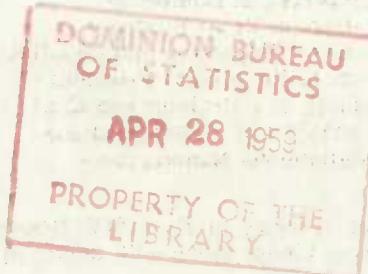
ANNUAL



NON-FERROUS METAL PRODUCTS

1956

General Review



Published by Authority of
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DOMINION BUREAU OF STATISTICS
Industry and Merchandising Division

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
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Regional Distribution
- III — Foods and Beverages
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- XVII — Products of Petroleum and Coal
- XVIII — Chemicals and Allied Products
- XIX — Miscellaneous Manufactures

The present report belongs in Part XIV, Non-ferrous Metal 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 Aluminum Products Industry
- C — The Brass and Copper Products Industry
- D — The White Metal Alloys Industry
- E — The Jewellery and Silverware Industry
- F — The Smelting and Refining Industry
- G — The Miscellaneous Non-ferrous Metal 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.

NON-FERROUS METAL PRODUCTS

1956

General Review

The total gross value of output for the industries in the Non-ferrous Metal Products group was \$1,862 millions in 1956 compared with \$1,627 millions in 1955. All of the industries showed increases in production over 1955, as follows: aluminum products, 13 per cent to \$90.4 millions; brass and copper products, 13 per cent to \$244.1 millions; jewellery and silverware, 11 per cent to \$53.4 millions; miscellaneous non-ferrous metal products, 79 per cent to \$15.0 millions; non-ferrous metal smelting and refining, 15 per cent \$1,396.6 millions and white metal alloys a slight increase to \$62.5 millions.

For the group as a whole, there were 581 plants in operation in 1956 with 56,071 employees. Payments in salaries and wages during the year amounted to \$220 millions, materials for manufacturing cost \$1,129 millions and fuel and electricity cost \$71 millions.

Imports into Canada of non-ferrous metals and their products (except electrical apparatus) were

valued at \$234 millions in 1956 compared with \$172 millions in 1955. Exports of Canadian-made goods were appraised at \$938 millions as against \$832 millions in 1955.

Note: Figures for value added by manufacture, shown in Tables 1 and 2, prior to 1952 were obtained by subtracting the cost of materials used, including fuel and electricity, from the value of production. In 1952 the gross value of production was replaced by value of factory shipments, f.o.b. plant. As no information on inventory change is available for 1952 and 1953, value added figures for these years were obtained by subtracting from the value of shipments the cost of materials, fuel and electricity. In 1954 information on the value of year-end inventory holdings at plant and plant warehouses began to be collected as part of the annual Census of Industry and information thus made available was taken into account in calculating the value added figures. In 1954 and 1955, the adjustments that were made used only the change in finished product inventory owned by manufacturers. 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. Inventory data were not available for the non-ferrous metal smelting and refining industry and therefore, the value added was calculated on the former basis for this industrial group.

NON-FERROUS METAL PRODUCTS

TABLE 1. Principal Statistics for the Non-ferrous Metal Products Group, by Industries, 1952-1956

Year	Establishments	Employees	Salaries and wages for year	Cost of fuel and electricity at works	Cost of materials at works	Value added by manufacture ¹	Gross selling value of products ¹
		number					
Aluminum products:							
1952	88	7,295	23,657,893	1,663,171	44,015,385	43,969,019	89,647,575
1953	96	7,738	25,593,164	1,741,405	49,084,098	41,898,562	92,724,065
1954	99	7,003	23,814,217	1,686,960	46,270,718	33,475,069	80,523,167
1955	93	6,832	24,025,405	1,702,109	45,961,129	31,733,656	79,839,602
1956	96	6,884	25,664,161	1,807,712	56,330,198	35,131,189	90,470,877
Brass and copper products:		dollars					
1952	153	9,711	31,034,274	2,170,803	120,999,967	61,501,181	184,671,951
1953	153	9,301	31,539,770	2,110,325	108,715,110	59,866,300	170,691,735
1954	156	8,530	30,131,125	2,086,062	99,886,257	56,179,619	157,907,751
1955	157	8,864	32,274,041	2,189,532	150,395,034	64,086,451	216,500,000
1956	154	9,220	34,729,361	2,405,113	173,601,665	69,497,906	244,096,116
Jewellery and silverware:							
1952	215	5,548	13,486,371	358,193	22,612,299	22,135,745	45,106,237
1953	207	5,703	14,416,095	395,571	27,149,796	23,875,903	51,421,270
1954	217	5,074	13,487,379	386,005	23,986,439	22,183,114	46,792,579
1955	221	5,178	13,680,463	391,782	25,711,100	22,245,768	48,016,269
1956	220	4,877	13,990,509	394,988	29,499,839	24,171,407	53,460,985
White metal products:							
1952	55	3,236	9,525,283	767,984	34,689,608	17,921,841	53,379,433
1953	56	3,641	11,007,518	767,613	30,142,086	19,595,648	50,505,347
1954	56	3,303	10,444,634	795,903	29,671,943	19,892,113	49,823,446
1955	60	3,102	10,496,152	852,309	38,099,192	24,384,056	62,505,196
1956	58	3,199	11,424,043	975,391	41,590,230	20,180,300	62,515,219
Miscellaneous non-ferrous metal products:							
1952	24	538	1,376,968	69,961	2,123,585	3,045,640	5,239,186
1953	21	560	1,607,899	93,339	2,920,266	2,736,830	5,750,435
1954	23	536	1,717,996	110,952	2,835,061	3,165,981	6,148,876
1955	26	729	2,444,440	115,447	3,862,843	4,489,036	8,403,307
1956	30	1,103	4,421,722	261,328	7,335,302	7,854,003	15,047,787
Non-ferrous metal smelting and refining:							
1952	17	24,608	87,964,295	50,571,452	519,781,231	266,721,382	837,074,065
1953	18	25,115	94,545,611	52,594,155	508,116,759	310,207,228	870,918,142
1954	22	26,048	102,595,970	55,225,387	515,315,655	352,037,956	922,578,998
1955	23	28,606	118,189,378	56,948,510	710,762,890	444,005,081	1,211,716,481
1956	23	30,788	130,139,944	64,942,503	820,604,322	511,018,353	1,396,565,178
Total:							
1952	552	50,938	167,045,084	55,601,564	744,222,075	415,294,808	1,215,118,447
1953	551	52,058	178,710,057	57,702,408	726,128,115	458,180,471	1,242,010,994
1954	573	50,494	182,191,321	60,291,269	717,966,073	486,933,852	1,263,774,817
1955	580	53,311	201,109,879	62,199,689	974,792,188	590,944,048	1,626,980,855
1956	581	56,071	220,369,740	70,787,035	1,128,961,556	667,853,158	1,862,156,162

¹ See footnote to text.

TABLE 2. Principal Statistics for the Non-ferrous Metal Products Group,
by Provinces, 1952-1956

Year	Establishments	Employees	Salaries and wages for year	Cost of fuel and electricity at works	Cost of materials at works	Value added by manufacture ¹	Gross selling value of products ¹
number		dollars					
New Brunswick and Quebec:							
1952	171	18,384	57,743,784	30,113,363	274,304,986	148,806,660	453,225,009
1953	179	18,940	64,119,873	32,318,564	287,231,896	166,594,900	486,145,360
1954	190	18,792	66,078,737	33,166,963	288,192,793	184,252,120	505,028,402
1955	188	19,405	73,061,392	34,041,933	435,650,285	193,426,183	663,518,906
1956	194	20,127	76,506,988	35,604,882	504,232,304	231,842,393	769,961,835
Ontario:							
1952	307	26,862	88,921,996	20,162,035	310,231,360	249,939,097	580,332,492
1953	297	27,601	94,430,303	20,288,943	327,921,987	262,042,313	610,253,243
1954	304	26,001	92,564,809	21,647,220	331,457,194	262,459,808	614,950,612
1955	310	26,709	98,456,533	21,162,508	420,976,114	319,600,466	760,620,623
1956	304	27,212	106,584,300	23,606,017	485,438,888	339,557,989	844,909,087
Manitoba:							
1952	17	682	2,344,399	844,662	13,522,793	1,947,981	16,315,436
1953	17	530	1,768,743	544,501	11,411,080	2,687,384	14,642,965
1954	16	470	1,634,354	523,968	6,441,387	6,534,419	13,397,633
1955	18	466	1,672,119	519,148	9,512,080	10,569,470	20,514,984
1956	18	465	1,769,879	572,850	9,199,933	12,023,303	21,710,535
Saskatchewan and Alberta:							
1952	10	385	1,498,587	1,533,650	25,975,725	10,028,908	37,538,283
1953	11	588	2,243,440	1,955,348	28,214,224	2,758,399	32,927,971
1954	15	831	3,333,665	2,216,337	14,592,238	21,752,484	38,523,346
1955	14	1,155	4,854,620	2,230,569	23,006,987	30,175,120	55,334,059
1956	15	1,247	5,560,767	2,476,224	22,309,773	33,069,570	57,756,580
British Columbia and Yukon:							
1952	47	4,625	16,536,318	2,947,854	120,187,211	4,572,162	127,707,227
1953	47	4,399	16,147,698	2,595,052	71,348,928	24,097,475	98,041,455
1954	48	4,400	18,579,756	2,736,781	77,282,461	11,935,021	91,874,824
1955	50	5,576	23,065,215	4,245,531	85,646,722	37,172,809	126,992,283
1956	50	7,020	29,947,806	8,527,062	107,780,658	51,359,903	167,818,125
Canada:							
1952	552	50,938	167,045,084	55,601,564	744,222,075	415,294,808	1,215,118,447
1953	551	52,058	178,710,057	57,702,408	726,128,115	458,180,471	1,242,010,994
1954	573	50,494	182,191,321	60,291,269	717,966,073	486,933,852	1,263,774,817
1955	580	53,311	201,109,879	62,199,689	974,792,188	590,944,048	1,626,980,855
1956	581	56,071	220,369,740	70,787,035	1,128,961,556	667,853,158	1,862,156,162

¹ See footnote to text.

TABLE 3. Inventories,¹ 1956

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
dollars				
(a) By industries				
Opening:				
Aluminum products	3,608,478	4,849,874	3,042,262	11,500,614
Brass and copper products	11,155,620	7,735,797	6,560,571	25,451,988
White metal products	4,472,493	1,088,012	3,247,104	8,807,609
Jewellery and silverware	6,379,302	3,066,600	4,971,838	14,417,740
Non-ferrous smelting and refining	2	2	2	2
Miscellaneous	1,238,489	582,690	534,706	2,355,885
Total	26,854,382	17,322,973	18,356,481	62,533,836
Closing:				
Aluminum products	5,666,804	6,751,798	3,938,560	16,357,162
Brass and copper products	13,977,541	7,826,531	7,878,405	29,682,477
White metal products	4,923,096	1,036,751	3,529,067	9,488,914
Jewellery and silverware	6,149,544	2,893,948	5,749,739	14,793,231
Non-ferrous smelting and refining	2	2	2	2
Miscellaneous	2,697,009	706,513	813,729	4,217,251
Total	33,413,994	19,215,541	21,909,500	74,539,035
(b) By provinces ³				
Opening:				
New Brunswick and Quebec	7,233,231	5,992,989	5,434,840	18,661,060
Ontario	18,677,518	11,071,804	11,901,861	41,651,183
Manitoba	394,684	100,456	282,153	777,293
Saskatchewan and Alberta	127,988	6,906	139,972	274,866
British Columbia and Yukon	420,961	150,818	597,655	1,169,434
Canada	26,854,382	17,322,973	18,356,481	62,533,836
Closing:				
New Brunswick and Quebec	8,330,158	6,639,654	6,505,919	21,475,731
Ontario	24,100,819	12,313,962	14,353,510	50,768,291
Manitoba	385,824	103,273	364,887	853,984
Saskatchewan and Alberta	90,740	4,631	241,234	336,605
British Columbia and Yukon	506,453	154,021	443,950	1,104,424
Canada	33,413,994	19,215,541	21,909,500	74,539,035

¹ Book value of all manufacturing inventories owned and held at plant and plant warehouses.² Not available.³ Excludes data for Non-ferrous smelting and refining industry.

Note: The opening inventory for the current year may not necessarily agree with the closing inventory for the previous year because of changes in the composition of the industry such as; the addition of new establishments, the disappearance of old ones, or the transfer of establishments to other industries for statistical purposes. The figure for value added by manufacture for the previous year does not need to be altered because of such changes in the composition of the industry.

**TABLE 4. Employees and their Earnings in the Non-ferrous Metal Products Group,
1955 and 1956**

	Average number of employees					Earnings		
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	Total
	Male	Female	Male	Female				
dollars								
1955								
(a) By industries:								
Aluminum products	1,660	843	4,029	300	6,832	10,315,674	13,709,731	24,025,405
Brass and copper products....	1,366	580	6,411	507	8,864	8,604,260	23,669,781	32,274,041
White metal products	492	181	1,922	507	3,102	3,093,769	7,402,383	10,496,152
Jewellery and silverware	633	440	2,592	1,513	5,178	3,879,611	9,800,852	13,680,463
Non-ferrous smelting and re-finishing	3,954	647	23,956	49	28,606	23,771,907	94,417,471	118,189,378
Miscellaneous	170	121	300	138	729	1,237,564	1,206,876	2,444,440
Total	8,275	2,812	39,210	3,014	53,311	50,902,785	150,207,094	201,109,879
(b) By provinces:								
New Brunswick and Quebec	3,402	1,047	14,089	867	19,405	20,513,073	52,548,319	73,061,392
Ontario	3,757	1,489	19,376	2,087	26,709	23,716,122	74,740,411	98,456,533
Manitoba	65	15	380	6	466	372,680	1,299,439	1,672,119
Saskatchewan and Alberta	174	25	956	—	1,155	964,453	3,890,167	4,854,620
British Columbia and Yukon	877	236	4,409	54	5,576	5,336,457	17,728,758	23,065,215
Canada	8,275	2,812	39,210	3,014	53,311	50,902,785	150,207,094	201,109,879
1956								
(a) By industries:								
Aluminum products	1,730	850	4,031	273	6,884	11,710,939	13,953,222	25,664,161
Brass and copper products ...	1,410	590	6,669	551	9,220	9,196,588	25,532,773	34,729,361
White metal products	492	189	1,997	521	3,199	3,198,641	8,225,402	11,424,043
Jewellery and silverware	635	430	2,380	1,432	4,877	3,982,989	10,007,520	13,990,509
Non-ferrous smelting and refining	4,297	1,053	25,389	49	30,788	25,950,477	104,189,467	130,139,944
Miscellaneous	276	89	614	124	1,103	1,792,922	2,628,800	4,421,722
Total	8,840	3,201	41,080	2,950	56,071	55,832,556	164,537,184	220,369,740
(b) By provinces:								
New Brunswick and Quebec	3,688	1,097	14,459	883	20,127	21,657,384	54,849,604	76,506,988
Ontario	3,939	1,422	19,839	2,012	27,212	25,443,071	81,141,229	106,584,300
Manitoba	66	16	376	7	465	407,544	1,362,335	1,769,879
Saskatchewan and Alberta	257	27	963	—	1,247	1,462,905	4,097,862	5,560,767
British Columbia and Yukon	890	639	5,443	48	7,020	6,861,652	23,086,154	29,947,806
Canada	8,840	3,201	41,080	2,950	56,071	55,832,556	164,537,184	220,369,740

NON-FERROUS METAL PRODUCTS

**TABLE 5. Production Workers (Wage-earners) in the Non-ferrous Metal Products Group,
by Months and by Industries, 1955 and 1956**

Month	Aluminum products	Brass and copper products	White metal products	Jewellery and Silverware	Non-ferrous smelting and refining	Miscellaneous	Total
number							
1955							
January	4,208	6,589	2,337	3,925	22,864	413	40,336
February	4,253	6,595	2,360	3,933	22,930	403	40,474
March	4,268	6,651	2,344	3,880	23,112	403	40,658
April	4,300	6,644	2,401	3,808	23,081	420	40,654
May	4,361	6,750	2,338	3,756	23,800	410	41,415
June	4,378	6,933	2,385	3,791	24,394	472	42,353
July	4,369	6,873	2,343	3,964	24,794	458	42,801
August	4,452	6,967	2,425	4,160	24,872	476	43,352
September	4,483	7,165	2,527	4,381	25,013	465	44,034
October	4,370	7,285	2,574	4,422	24,637	465	43,753
November	4,304	7,335	2,594	4,329	24,462	464	43,488
December	4,253	7,209	2,550	4,139	24,057	452	42,660
Average	4,329	6,918	2,429	4,105	24,005	438	42,224
1956							
January	4,175	7,237	2,495	3,889	23,217	628	41,641
February	4,203	7,358	2,515	3,885	23,440	571	41,972
March	4,274	7,436	2,618	3,823	23,468	618	42,237
April	4,367	7,472	2,632	3,719	23,920	639	42,749
May	4,431	7,503	2,689	3,681	25,315	684	44,303
June	4,389	7,355	2,467	3,653	26,569	734	45,167
July	4,393	7,115	2,227	3,735	26,874	766	45,110
August	4,362	7,105	2,559	3,902	27,065	781	45,774
September	4,372	7,125	2,575	4,012	26,718	851	45,653
October	4,266	7,037	2,616	4,057	26,477	780	45,323
November	4,266	6,955	2,557	3,994	26,264	847	44,883
December	4,205	6,940	2,442	3,857	25,926	851	44,221
Average	4,304	7,220	2,518	3,812	25,438	738	44,030

**TABLE 6. Production Workers (Wage-earners) in the Non-ferrous Metal Products Group,
by Months and by Provinces, 1955 and 1956**

Month	New Brunswick and Quebec	Ontario	Manitoba	Saskat- chewan and Alberta	British Columbia and Yukon	Total
number						
1955						
January	14,368	20,608	386	865	4,109	40,336
February	14,531	20,612	374	886	4,071	40,474
March	14,645	20,637	368	893	4,115	40,658
April	14,630	20,705	373	938	4,008	40,654
May	14,929	20,892	381	1,004	4,209	31,415
June	15,246	21,347	384	1,012	4,364	42,353
July	15,220	21,665	385	1,011	4,520	42,801
August	15,341	22,000	391	1,021	4,599	32,352
September	15,385	22,291	397	984	4,977	44,034
October	15,323	22,183	404	963	4,880	43,753
November	15,184	22,094	392	954	4,864	43,488
December	14,697	21,780	390	938	4,855	42,660
Average	14,956	21,463	386	956	4,463	42,224
1956						
January	13,929	21,583	362	908	4,859	41,641
February	14,027	21,541	369	925	5,110	41,972
March	14,077	21,700	369	930	5,161	42,237
April	14,432	21,736	389	953	5,239	42,749
May	15,372	22,195	395	973	5,368	44,303
June	16,216	22,064	405	990	5,492	45,167
July	16,223	21,830	399	1,015	5,643	45,110
August	16,500	22,180	402	1,005	5,687	45,774
September	16,225	22,219	389	955	5,865	45,653
October	15,972	22,167	362	950	5,872	45,323
November	15,704	21,999	380	975	5,825	44,883
December	15,488	21,655	385	969	5,724	44,221
Average	15,342	21,851	383	963	5,491	44,030

NON-FERROUS METAL PRODUCTS

TABLE 7. Alphabetical List of Materials Used in the Industries in the Non-ferrous Metal Products Group, 1955 and 1956

Material	1955		1956		
	Quantity	Cost at works	Quantity	Cost at works	
		\$		\$	
Aluminum (except scrap):					
Ingots	ton	95,115	39,242,358	91,501	45,307,160
Castings	"	69	106,457	82	115,399
Circles and forms for hollow-ware	"	1,748	1,423,252	1,190	1,048,651
Sheets	"	699	503,356	1,578	1,306,013
Strips	"	1,088	792,922		
Rods and bars	"	255	161,246	336	282,007
Tubing	"	141	194,275	107	176,647
Wire	"	47	54,142	59	58,375
Form not stated	"	3,447	2,884,976	—	4,119,768
Alloy die castings	"	3,938	1,162,014	4,096	1,403,002
Antimony	"	764	410,294	806	386,054
Arsenic—Metallic arsenic	lb.	7,367	2,346	9,310	3,801
Oxide, As_2O_3	"	88,095	5,612	81,144	5,206
Beads for artificial or simulated pearls:					
Glass	—	—	255,506	—	246,830
Other	—	—	136,116	—	207,468
Bismuth	lb.	35,846	80,598	38,571	83,886
Brass and bronze (except scrap):					
Ingots	ton	11,604	7,704,182	10,932	7,913,281
Bars and rods	"	1,856	1,449,950	1,974	1,576,902
Castings	"	1,392	1,276,848	705	796,401
Plates, sheets and strips	"	1,333	1,312,515	1,220	1,162,104
Pipe and tubing	"	576	622,316	502	572,183
Wire	"	189	243,659	301	442,829
Form not stated	—	—	904,436	—	1,359,850
Britannia metal, including blanks for plating	—	—	148,662	—	103,416
Cadmium	lb.	114,085	207,683	120,428	191,549
Coke, foundry	ton	1,389	40,967	2,196	66,622
Copper (except scrap):					
Ingots, slabs, wire bars, etc	"	133,984	99,382,728	138,231	115,448,254
Pipe and tubing	"	230	281,207	151	196,765
Plates, sheets and strips	"	635	709,381	593	670,289
Rods	"	21	26,327	82	102,050
Wire	"	253	247,968	324	317,626
Form not stated	—	—	534,896	—	457,963
Crucibles	—	—	81,066	—	1
Diamonds, for rings, etc.	—	—	2,296,047	—	2,631,496
Facings, foundry	ton	68	15,217	—	1
Glass linings and blanks, for silverware	—	—	238,480	—	133,871
Gold:					
Fine:					
New	—	—	3,959,226	—	5,205,150
Old	—	—	193,262	—	239,162
Old, for remelting or refining	—	—	344,136	—	699,680
Alloys	—	—	1,299,382	—	1,421,905
Gold-filled wire	—	—	138,030	—	146,254
Graphite	ton	19	9,269	23	14,914
Iridium	—	—	10,320	—	19,039
Iron, pig	ton	3,793	239,029	3,838	220,891
Jewellers' findings	—	—	868,924	—	903,189
Lead (except scrap):					
Pig:					
Pure	ton	23,309	6,612,513	21,404	6,486,497
Antimonial	"	1,398	439,827	2,080	669,160
Other forms	—	—	82,459	—	62,404
Lumber	M bd. ft.	421	49,866	637	65,670
Magnesium metal	ton	832	620,831	1,278	749,964
Manganese metal	"	34	20,936	63	48,172
Metals, other non-ferrous	—	—	2,040,718	—	2,715,946
Monel metal	ton	63	77,002	48	93,027
Nickel	"	1,232	1,765,630	1,662	2,179,139
Nickel-copper shot	"	13	17,837	12	15,465

¹ Not collected separately.

TABLE 7. Alphabetical List of Materials Used in the Industries in the Non-ferrous Metal Products Group, 1955 and 1956 — Concluded

Material	1955		1956	
	Quantity	Cost at works	Quantity	Cost at works
		\$		\$
Nickel-silver, including blanks for plating	—	1,614,987	—	2,001,174
Palladium	—	230,026	—	240,831
Pearl essence	—	41,699	—	22,265
Platinum	—	579,060	—	1,218,798
Refractories	—	55,013	—	84,699
Resins, synthetic, and plastics	—	30,111	—	98,467
Rhodium	—	116,232	—	128,635
Rouge and other polishes	—	109,580	—	100,038
Sand:				
Foundry	ton	10,078	103,190	11,621
Silica	"	1,257	12,990	1,533
Scrap:				
Aluminum	"	10,495	3,965,921	12,446
Babbitt	"	1,304	477,025	1,702
Brass and bronze	"	30,725	17,018,395	30,932
Copper	"	8,149	5,541,689	11,182
Iron and steel	"	3,159	118,693	3,762
Lead:				
Battery plates and lugs	"	21,872	3,371,689	23,629
Cable	"	2,475	642,748	3,842
Dross	"	2,222	411,168	1,766
Other	"	4,824	1,273,037	3,181
Magnesium	—	—	10,185	—
Solder	ton	785	361,944	736
Tin	"	45	53,479	45
Type metal	"	3,373	1,219,143	2,150
Zinc	"	1,693	252,879	1,692
Zinc dross	"	3,080	481,843	1,946
Other metals	"	462	141,838	998
Silicon metal	lb.	307,090	61,775	222,138
Silver:				
Fine:				
Anodes	—	—	664,208	3,689,139
Other	—	—	2,379,698	
Sterling	—	—	2,764,156	2,559,643
Other alloys	—	—	38,586	61,328
Stainless steel	—	—	1,312,741	—
Steel, other:				
Bars and rods	ton	451	134,060	—
Cutlery	—	—	196,354	90,121
Plates, sheets and strip	ton	1,671	308,790	855
Other	—	—	227,266	1,858,982
Stones, other semi-precious and precious	—	—	844,524	—
Tellurium	lb.	740	1,369	1,202
Tin (except scrap):				
Ingots and slabs	ton	2,312	4,341,851	2,284
Other forms	"	50	69,981	22
Trimmings, knobs, handles, etc., for kitchenware	—	—	329,342	—
Waste and scrap for remelting and refining	—	—	1,382,124	973,047
Watch parts	—	—	109,334	78,124
Zinc (except scrap):				
Ingots and slabs	ton	19,993	5,430,175	18,288
Sheets	"	567	266,635	446
Other forms	—	—	88,662	—
Shipping containers and packing materials	—	—	2,515,138	—
Ores, concentrates, etc., for smelting and refining	—	—	710,762,890	—
All other materials	—	—	17,372,557	—
Amount paid out to others for work done on materials owned by plants in this group	—	—	1,026,206	—
Total	—	—	974,792,188	—
				1,128,961,556

TABLE 8. Alphabetical List of Products Made in the Industries in the Non-ferrous Metal Products Group, 1955 and 1956

Note: Figures for individual items do not necessarily represent total Canadian production as they may also have been made in plants classified to other groups.

Product	1955		1956	
	Quantity	Selling value at works	Quantity	Selling value at works
Alloys, die casting	lb. 9,251,463	\$ 1,441,943	12,267,906	2,036,482
Alloys, non-ferrous, not elsewhere specified	" 775,330	191,825	1,714,103	394,431
Aluminum:				
Bars and rods		(a)		(a)
Bottle caps and seals		(a)		(a)
Castings (except die castings)	" 9,261,899	6,777,808	10,712,743	7,723,034
Conduit		(a)		(a)
Cooking utensils and other kitchen hollow-ware	" —	6,376,189	—	5,475,226
Extruded shapes	lb. 20,219,533	10,951,207	23,220,382	12,616,990
Forgings		(a)		(a)
Hat dies and hat blocks		(a)		(a)
Ingots and wire bars:				
New	ton 612,543	*	620,321	*
Remelt	lb. 3,913,535	1,015,302	3,697,009	1,091,621
Secondary (reclaimed from scrap)	" 14,067,516	3,506,553	12,438,698	3,366,865
Nails		(a)		(a)
Patterns and match plates	" —	152,069	—	154,810
Powder		(a)		(a)
Rivets		(a)		(a)
Roofing		(a)		(a)
Scrap	" —	750,543	—	141,955
Sheets	" —	(a)		(a)
Stampings and spinnings, not elsewhere specified	" —	323,509	—	345,732
Tubing		(a)		(a)
Window sash and frames		(a)		(a)
Other aluminum goods, including values for items marked (a) which were reported by only one or two concerns in this group	" —	46,400,653	—	54,516,086
Anodes, for plating		*		*
Architectural work of brass, bronze, copper or iron	" —	165,735	—	175,749
Babbitt metal	lb. 2,848,263	1,206,608	2,963,491	1,194,011
Brass and bronze:				
Bars and rods		(b)		(b)
Castings	" 29,703,372	15,302,889	34,020,962	19,042,834
Ingots	" 22,928,777	7,765,451	35,893,988	12,795,841
Powder	" —	(b)		(b)
Scrap	" 815,994	262,243	997,256	294,604
Sheets, plates and strips		(b)		(b)
Other forms, including values for items marked (b)	" —	37,943,259	—	32,618,740
Copper:				
Alloys, not elsewhere specified	lb. 445,234	462,917	330,700	402,900
Castings	" 201,559	143,249	599,601	466,854
Ingots, wire bars, etc., made in primary refineries	ton 288,997	215,276,770	328,458	271,524,975
Pipe and tubing		(c)		(c)
Plates and sheets	" 1,829,482	676,895	2,759,791	1,127,447
Scrap		(c)		(c)
Wire rods	" —	102,891,190	—	119,731,035
Other forms, including values for items marked (c)	" —			
Cadmium metal	lb. 1,709,241	2,541,498	1,925,610	2,896,493
Castings:				
Die:				
Aluminum base	lb. 2,315,576	1,839,013	2,665,754	2,123,613
Zinc base	" 18,511,226	9,230,123	16,535,878	8,452,695
Other	" —	124,529	—	181,648
Grey iron	" —	129,785	—	214,075
Other, not elsewhere specified	" —	1,288,469	—	357,447
Church goods (chalices, etc.)	" —	87,674	—	229,557
Dies	" —	380,769	—	439,200
Emblems, badges and medals	" —	724,260	—	806,835

TABLE 8. Alphabetical List of Products Made in the Industries in the Non-ferrous Metal Products Group, 1955 and 1956 — Continued

Note: Figures for individual items do not necessarily represent total Canadian production as they may also have been made in plants classified to other groups.

Product	1955		1956	
	Quantity	Selling value at works	Quantity	Selling value at works
Fasteners, metal		\$ •		\$ •
Fire extinguishers and extinguishing systems	—	3,022,328	—	3,150,481
Flatware and cutlery:				
Not plated	—	831,275	—	1,064,848
Silver-plated	—	6,155,926	—	5,878,192
Sterling silver	—	2,181,577	—	1,796,942
Foils (lead, tin, aluminum, etc.)	—	9,723,874	—	9,890,490
Gauges, pressure and vacuum		•		•
Gold:				
Fine gold (forsale), recovered from old gold, sweepings, etc.	—	458,454	—	499,390
Fine gold, purchased as such and only melted and rolled or otherwise prepared, without alloying, for resale to the arts and industries	—	367,879	—	201,015
Gold alloys	—	2,850,307	—	3,220,386
Gold leaf	—	412,019	—	663,305
Gold-filled wire and other gold-filled stock	—			
Hardware:	—	95,172	—	234,016
Hollow-ware:				
Silver-plated on brass or copper	—	1,504,866	—	1,175,923
Silver-plated on Britannia metal	—	82,045	—	63,121
Silver-plated on lead alloy	—	130,133	—	62,399
Silver-plated on nickel-silver	—	14,253	—	69,704
Sterling silver	—	272,454	—	286,975
Hollow-ware and spinnings, brass, bronze, copper, steel and monel	—	70,866	—	420,741
Hydrants		•		•
Jewellery:				
Of gold, silver and other metals (including stones)	—	17,445,417	—	18,182,605
Of plastics or other non-metallic materials	—	770,433	—	1,170,010
Lamps and lanterns, marine, portable and railway		•		•
Lead:				
Alloys, and elsewhere specified	lb.	1,183,076	346,057	898,170
Bars or ingots (antimonial):				
Primary (made from virgin metal)	"	10,028,200	1,527,838	9,428,190
Secondary (reclaimed from scrap)	"	35,074,764	5,370,026	36,510,319
Bars or ingots (pure):				
New — produced in primary refineries	ton	148,811	37,202,655	147,865
Remelted in secondary refineries	lb.	5,324,405	858,046	5,035,504
Secondary (reclaimed from scrap)	"	7,032,852	1,054,775	5,605,239
Castings	"	521,642	161,243	707,005
Pipe	"	2,889,346	661,491	3,131,767
Sheet	"	5,729,644	1,134,747	4,818,263
Traps and fittings	"	2,510,646	1,078,040	2,393,973
Wire		(d)		(d)
Miscellaneous lead products, including value for items marked (d)	—	269,960	—	374,338
Lead, red		•		•
Lightning rods and supplies	—	309,631	—	333,763
Magnesium:				
Castings	—	2,035,960	—	2,226,701
Other magnesium products	—	•	—	•
Maple sugar equipment		•		•
Meters and meter parts, gas and water		•		•

TABLE 8. Alphabetical List of Products Made in the Industries in the Non-ferrous Metal Products Group, 1955 and 1956 — Continued

Note: Figures for individual items do not necessarily represent total Canadian production as they may also have been made in plants classified to other groups.

Product	1955		1956	
	Quantity	Selling value at works	Quantity	Selling value at works
Nickel in matte, oxides and salts, and refined nickel ton	174,928	215,866,007	178,515	222,204,860
Nickel-silver:				
Plates and sheets		:		:
Other forms		:		:
Pearls, artificial or simulated	—	943,828	—	801,597
Platinum:				
Crucibles	—			
Electrodes	—	1,018,906		1,176,207
Other manufactures	—			
Platinum, palladium, etc., in refinery residues and matte	—	23,069,365		22,407,090
Plumbers' brass fittings:				
Closet tank fittings	—	445,610	—	341,051
Lavatory and bath faucets, lavatory combinations	—	1,685,691	—	3,369,489
Sink faucets and sink combinations	—	1,822,745	—	
Stops, and stop and drains	—	1,097,462	—	907,566
Traps, drains, supplies and other tubular fittings	—	1,790,201	—	1,191,484
Tub-fitters, showers, and combinations of same	—	1,638,602	—	1,981,109
Any other brass plumbing fittings	—	3,709,041	—	4,178,576
Plumbing fixtures, cast iron	—	413,439	—	464,979
Pot scourers	—	553,728	—	586,103
Precious metal salts	—	*	—	*
Railway car bearings and fittings, brass and bronze	—	997,395	—	454,313
Scrap and dross sold	—	3,104,031	—	624,567
Selenium	lb. 421,588	3,511,932	lb. 355,024	5,432,075
Shot, dropped or moulded		*		*
Silver:				
Fine silver (for sale), recovered from sweepings, etc.	—	344,321	—	394,614
Fine silver, purchased as such and only melted and rolled or otherwise prepared, without alloying for resale to the arts and industries	—	715,866	—	794,104
Sterling silver	—	1,533,572	—	2,403,942
Sterling silver, purchased as such and only melted, rolled, etc., for resale	—	170,193	—	201,641
Other silver alloys	—	981,410	—	906,249
Other silver alloys, purchased as such and only melted, rolled, etc., for resale	—	1,000	—	500
Solders	lb. 12,814,019	5,764,065	lb. 12,936,583	6,086,370
Smelter and refinery products, not elsewhere specified	—	305,048,035	—	492,222,821
Steam boiler trimmings, including gauge cocks and water gauge mountings	—	98,180	—	85,452
Stellite and stellite products	—	*	—	*
Sweeps, jewellers', prepared	—	270,362	—	485,658
Tanks, kettles and coils for breweries	—	781,549	—	149,138
Tellurium	lb. 6,516	11,416	lb. 15,915	30,254
Terrazzo stripping, brass, zinc, magnesium		*		*
Tin:				
Alloys, not elsewhere specified		*		*
New — produced in primary refineries	ff. 101,553	96,221	ff. 193,284	193,284
Remelted in secondary refineries	ff. 55,434	57,322	ff. 57,262	61,796
Secondary (reclaimed from scrap)	ff. 36,680	36,736	ff. 31,132	31,028
Toiletware and dresserware:				
Sterling silver	—	218,609	—	225,523
Other metals	—	178,158	—	187,137
Trophies	—	604,238	—	596,660
Tubes, collapsible	—	*	—	*
Type and type metal	lb. 7,793,843	1,896,568	lb. 9,974,777	2,613,598

TABLE 8. Alphabetical List of Products Made in the Industries in the Non-ferrous Metal Products Group, 1955 and 1956 — Concluded

Note: Figures for individual items do not necessarily represent total Canadian production as they may also have been made in plants classified to other groups.

Product	1955		1956	
	Quantity	Selling value at works	Quantity	Selling value at works
		\$		\$
Valves:				
Brass or bronze (gate, globe, check, etc.)	—	4,463,903	—	4,799,508
Corporation brass (main and curb stops, etc.)	—	1,297,299	—	1,471,323
Radiator valves (all types)	—	512,581	—	351,731
Iron body (gate, globe, check, etc.)	—	3,404,558	—	4,181,569
Pressure regulators and relief valves	—	207,497	—	204,445
Steel	—	211,371	—	370,790
Other types	—	—	—	930,663
Watch cases	—	330,767	—	100,893
Watches:				
Wrist	—	399,587	—	491,870
Other	—	—	—	3,000
Weatherstripping	—	390,978	—	427,458
Zinc:				
Alloys not elsewhere specified	lb.	650,355	112,755	856,862
Casting	"	6,134	3,088	13,413
Dust	"	—	*	—
Bars, slabs, etc.:				
New — produced in primary refineries	ton	256,542	57,719,750	255,564
Remelted in secondary refineries	lb.	74,906	14,113	165,784
Secondary (reclaimed from scrap)	"	5,500,454	684,069	5,102,522
All other products (including products reported by only one or two firms in this group marked * above)	—	—	399,009,933	—
Amount received in payment for repair and custom work	—	—	3,012,128	—
Total	—	—	1,626,980,855	—
				1,882,156,162

TABLE 9. Capital and Repair Expenditures in the Non-ferrous Metal Products Group, 1955 and 1956

Industry	Capital expenditures		Sub-total	Repair expenditures		Sub-total	Total capital and repair expenditures
	Construction	Machinery and equipment		Construction	Machinery and equipment		
thousands of dollars							
1955							
Aluminum products	232	1,122	1,354	306	2,518	2,824	4,178
Brass and copper products ...	948	2,281	3,229	625	2,751	3,376	6,605
White metal products	616	1,033	1,649	—	—	835	2,484
Jewellery and silverware	500	613	1,113	103	400	503	1,616
Non-ferrous smelting and refining	34,273	40,485	74,758	6,948	36,314	43,262	118,020
Miscellaneous	236	190	426	—	—	115	541
Total	36,805	45,724	82,529	7,982	41,883	50,915	133,444
1956							
Aluminum products	1,503	2,568	4,071	328	2,369	2,697	6,768
Brass and copper products ...	4,379	3,600	7,979	650	2,982	3,632	11,811
White metal products	139	1,025	1,164	—	935	1,006	2,170
Jewellery and silverware	599	509	1,108	—	386	482	1,590
Non-ferrous smelting and refining	48,419	45,597	94,016	8,016	45,460	53,476	147,492
Miscellaneous	329	271	600	—	—	124	724
Total	55,368	53,570	108,938	8,994	52,132	61,417	170,355

¹ Breakdown not available for publication as one of constituent parts of total under \$100,000.

Note: Data shown for 1955 and 1956 in above table are final figures and therefore, differ to some extent from the preliminary figures shown in the bulletins for the individual industries.

NON-FERROUS METAL PRODUCTS

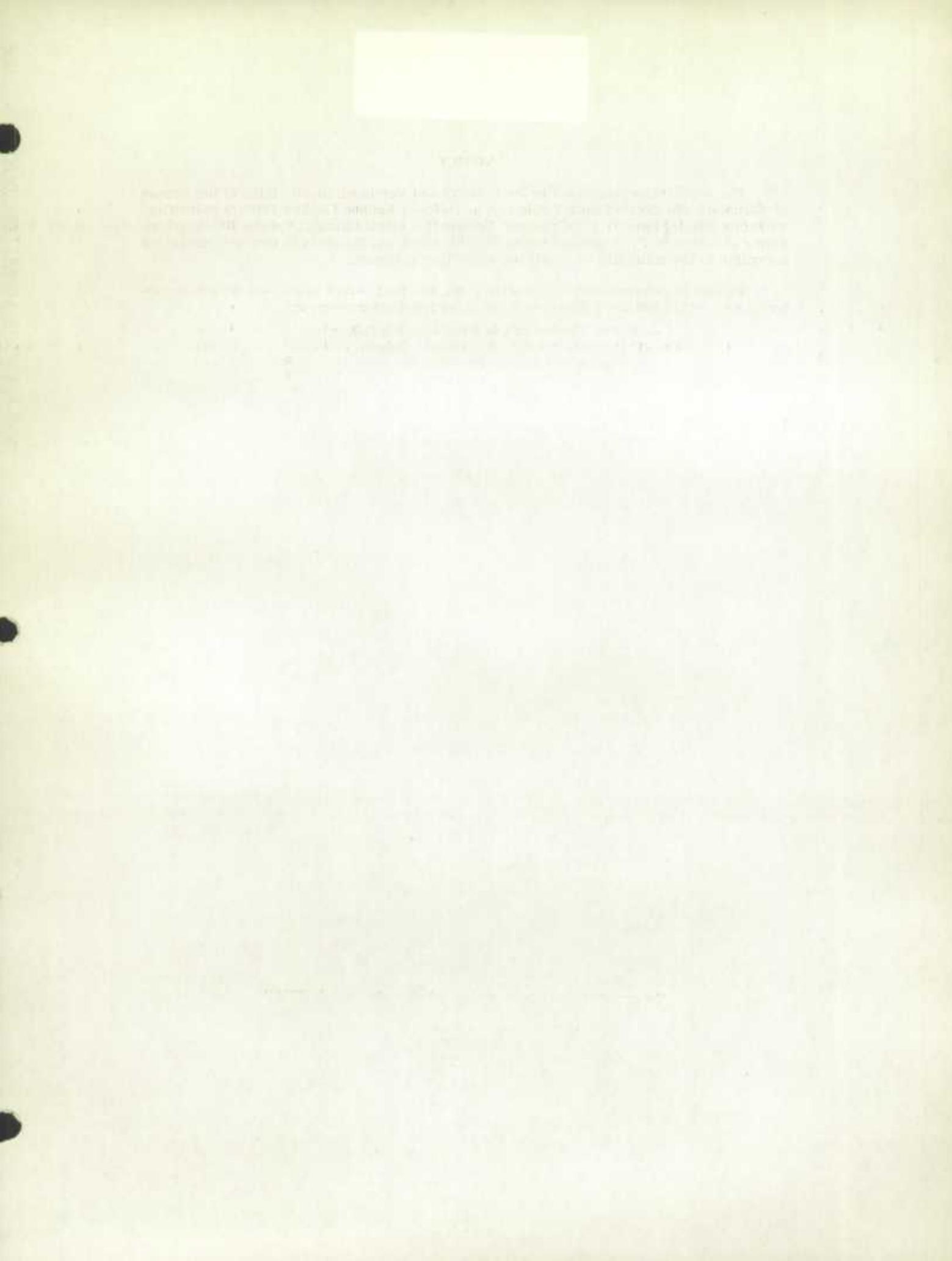
**TABLE 10. Fuel and Electricity Used in the Manufacture of Non-ferrous Metal Products in Canada,
by Industries and by Provinces, 1956**

No.		Bituminous coal		Sub-bituminous coal from Alberta mines only	Anthracite coal	Lignite coal	Coke (for fuel only)	Gasoline (including gasoline used in cars and trucks)	Imp. gal.							
		From Canadian mines	Imported													
tons																
(a) By industries																
Aluminum products:																
1	Quantity	80	13,844	—	56	—	82	66,843								
2	Cost	\$ 1,285	133,843	—	1,492	—	2,012	24,270								
Brass and copper products:																
3	Quantity	9,551	14,437	6	1,019	—	626	324,946								
4	Cost	\$ 115,103	167,816	70	14,203	—	13,877	126,658								
White metal products:																
5	Quantity	297	1,525	—	916	—	1,197	157,807								
6	Cost	\$ 4,123	24,145	—	13,616	—	27,772	64,066								
Jewellery and silverware:																
7	Quantity	339	3,313	—	10	—	—	55,697								
8	Cost	\$ 4,987	39,138	—	318	—	—	24,504								
Non-ferrous smelting and refining:																
9	Quantity	414,208	590,632	42	71,366	—	320,237	765,994								
10	Cost	\$ 5,591,587	6,624,314	610	902,797	—	6,802,958	261,023								
Miscellaneous:																
11	Quantity	—	—	—	9	6	—	9,515								
12	Cost	\$ —	—	—	228	61	—	4,353								
Total 1956:																
13	Quantity	424,475	623,751	48	73,376	6	322,142	1,380,802								
14	Cost	\$ 5,717,085	6,989,256	680	932,654	61	6,846,619	504,874								
(b) By provinces																
New Brunswick and Quebec:																
15	Quantity	194,449	2,326	—	73,211	—	804	511,143								
16	Cost	\$ 2,536,584	33,937	—	928,696	—	19,550	186,504								
Ontario:																
17	Quantity	870	621,030	—	159	—	240,567	552,702								
18	Cost	\$ 11,969	6,950,405	—	3,838	—	4,808,160	202,331								
Manitoba:																
19	Quantity	27,581	395	8	—	6	10	9,494								
20	Cost	\$ 360,762	4,914	120	—	61	246	4,162								
Saskatchewan and Alberta:																
21	Quantity	112,425	—	34	—	—	—	46,035								
22	Cost	\$ 1,470,516	—	490	—	—	—	12,494								
British Columbia and Yukon:																
23	Quantity	89,150	—	6	6	—	80,761	261,428								
24	Cost	\$ 1,337,254	—	70	120	—	2,018,663	99,383								
Total 1956:																
25	Quantity	424,475	623,751	48	73,376	6	322,142	1,380,802								
26	Cost	\$ 5,717,085	6,989,256	680	932,654	61	6,846,619	504,874								

TABLE 10. Fuel and Electricity Used in the Manufacture of Non-ferrous Metal Products in Canada,
by Industries and by Provinces, 1956

Kerosene or coal oil	Fuel oil (not including lubricating oil)	Wood (cords of 128 cubic ft. of piled wood)	Gas			Other fuel	Electricity		Total	No.
			Liquefied petroleum gases (propane, etc.)	Other manu- factured gas	Natural gas		Purchased	Generated for own use		
Imp. gal.		cords	Imp. gal.	M cu. ft.			kwh.		\$	
72, 260	3, 731, 338	—	72, 392	20, 176	57, 929	—	164, 981, 552	—	—	1
19, 467	479, 303	—	19, 307	24, 287	63, 361	14, 121	1, 024, 964	—	1, 807, 712	2
54, 270	4, 542, 936	28	483, 734	39, 240	150, 519	—	93, 501, 752	—	—	3
12, 447	662, 347	206	72, 611	36, 888	135, 748	82, 430	964, 709	—	2, 405, 113	4
28, 531	2, 592, 879	4	145, 860	216, 150	103, 886	—	24, 414, 060	—	—	5
5, 548	361, 927	43	28, 448	88, 451	98, 461	5, 654	253, 137	—	975, 391	6
—	549, 503	—	23, 428	4, 040	24, 186	—	12, 112, 119	—	—	7
—	83, 501	—	5, 889	4, 462	43, 446	9, 427	179, 316	—	394, 988	8
176, 270	89, 737, 085	1, 452	66, 724	98, 217	1, 952, 752	—	13, 981, 373, 631	1, 121, 430, 109	—	9
34, 644	9, 350, 514	38, 820	10, 709	98, 846	232, 109	20, 155	34, 973, 417	—	64, 942, 503	10
45	426, 673	—	7, 007	872	16, 855	—	14, 055, 656	—	—	11
12	97, 943	—	1, 958	1, 010	26, 574	725	128, 464	—	261, 328	12
331, 376	101, 580, 414	1, 484	801, 145	251, 533	2, 306, 127	—	14, 290, 438, 770	1, 121, 430, 109	—	13
72, 118	11, 035, 535	39, 069	138, 922	253, 944	599, 699	132, 512	37, 524, 007	—	70, 787, 035	14
251, 265	62, 823, 268	884	439, 685	125, 528	—	—	191, 167, 834	18, 175, 200	—	15
54, 319	5, 860, 293	32, 354	60, 911	125, 540	—	42, 422	25, 723, 772	—	35, 604, 882	16
75, 859	34, 591, 648	6	351, 881	111, 310	306, 403	—	1, 281, 839, 286	5, 576, 900	—	17
16, 416	4, 370, 102	36	74, 329	113, 070	355, 020	76, 724	6, 623, 615	—	23, 606, 017	18
80	412, 866	41	3, 071	3, 907	2, 112	—	72, 816, 552	—	—	19
23	59, 040	421	848	4, 112	2, 399	860	134, 882	—	572, 850	20
325	1, 118, 312	171	1, 500	—	1, 997, 612	—	301, 027, 851	21, 107, 000	—	21
95	123, 863	1, 714	520	—	242, 280	560	623, 692	—	2, 478, 224	22
3, 847	2, 634, 120	382	5, 008	10, 788	—	—	2, 443, 587, 247	1, 076, 571, 009	—	23
1, 263	622, 237	4, 544	2, 314	11, 222	—	11, 946	4, 418, 046	—	8, 527, 062	24
331, 376	101, 580, 414	1, 484	801, 145	378, 695	2, 306, 127	—	14, 290, 438, 770	1, 121, 430, 109	—	25
72, 118	11, 035, 535	39, 069	138, 922	253, 944	599, 699	132, 512	37, 524, 007	—	70, 787, 035	26





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