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NON-FERROUS METAL PRODUCTS

1957

General Review

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NOTICE

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

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

- I – General Review of the Manufacturing Industries
- II – The Manufacturing Industries of Canada, (7 sections, as follows):
 - Section A. Summary for Canada
 - Section B. Atlantic Provinces
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- 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

1957

General Review

The total gross value of output for the industries in the Non-ferrous Metal Products group was \$1,683 millions in 1957 compared with \$1,862 millions in 1956.

Two of the industries in this group showed increases in output values compared with 1956 and four industries registered declines. For the first group the values in millions of dollars (1956 in brackets) were as follows: Aluminum products, \$91.8 (\$90.5) and Miscellaneous non-ferrous metal products, \$19.3 (\$15.0). Four industries showed declines as follows: Brass and copper products, \$182.4 (\$244.1), Jewellery and silverware, \$52.8 (\$53.5), White metal products, \$57.0 (\$62.5) and Non-ferrous metal smelting and refining, \$1,280.1 (\$1,396.6).

For the group as a whole, there were 592 plants in operation in 1957 with 54,581 employees. Payment in salaries and wages during the year amounted to \$228 millions, materials for manufacturing cost \$1,014 millions and fuel and electricity cost \$66 millions.

Imports into Canada of non-ferrous metals and their products (except electrical apparatus) were valued at \$236 millions in 1957 compared with \$234 millions in 1956. Exports of Canadian-made goods were appraised at \$981 millions as against \$938 millions in 1956.

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.

TABLE 1. Principal Statistics for the Non-ferrous Metal Products Group, by Industries, 1953-1957

Year	Estab- lish- ments	Em- ployees	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 factory shipments ¹
	number		dollars				
Aluminum products:							
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
1957	94	6,917	27,475,361	1,852,226	56,190,667	33,953,111	91,818,989
Brass and copper products:							
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
1957	160	8,825	34,803,463	2,442,415	111,347,089	67,852,993	182,396,315
Jewellery and silverware:							
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
1957	220	4,731	14,572,549	404,516	28,885,750	23,502,638	52,789,040
White metal products:							
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
1957	61	3,154	11,258,160	1,008,437	37,734,175	17,856,056	56,969,191
Miscellaneous non-ferrous metal products:							
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
1957	34	1,341	5,383,649	319,022	9,983,138	9,268,243	19,263,253
Non-ferrous metal smelt- ing and refining:							
1953	18	25,115	94,545,611	52,594,155	508,116,759	310,207,228	870,918,142 ²
1954	22	26,048	102,595,970	55,225,387	515,315,655	352,037,956	922,578,998 ²
1955	23	28,606	118,189,378	56,948,510	710,762,890	444,005,081	1,211,716,481 ²
1956	23	30,788	130,139,944	64,942,503	820,604,322	511,018,353	1,396,565,178 ²
1957	23	29,613	134,775,206	59,474,791	770,004,696	450,666,165	1,280,145,652 ²
Total:							
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
1957	592	54,581	228,268,388	65,501,407	1,014,145,515	603,099,208	1,683,382,440

¹ See footnote to text.² Gross value of production for this industry.

**TABLE 2. Principal Statistics for the Non-ferrous Metal Products Group,
by Provinces, 1953-1957**

Year	Estab- lish- ments	Em- ployees	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 factory shipments ¹
	number		dollars				
Nova Scotia, New Brunswick and Quebec:							
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
1957	194	18,169	74,238,319	30,258,912	367,454,139	186,985,804	584,568,936
Ontario:							
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
1957	309	27,760	114,106,127	24,651,893	508,557,666	339,577,559	873,320,832
Manitoba:							
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
1957	17	484	1,886,547	539,075	8,088,301	6,313,357	15,052,447
Saskatchewan and Alberta:							
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
1957	16	1,261	5,816,053	2,501,290	23,269,715	21,164,115	47,108,711
British Columbia and Yukon:							
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
1957	56	6,907	32,221,342	7,550,237	106,775,694	49,058,371	163,331,514
Canada:							
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
1957	592	54,581	228,268,388	65,501,407	1,014,145,515	603,099,206	1,683,382,440

¹ See footnote to text.

TABLE 3. Inventories.¹ 1957

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
	dollars			
(a) By industries				
Opening:				
Aluminum products	5,699,726	6,731,005	3,991,459	16,422,190
Brass and copper products	13,880,890	7,692,563	7,921,163	29,494,616
White metal products	4,859,460	1,031,497	3,591,115	9,482,072
Jewellery and silverware	6,020,204	2,907,305	5,461,778	14,389,287
Non-ferrous smelting and refining	113,831,000	29,860,000	33,075,000	176,766,000
Miscellaneous	2,739,166	700,522	797,522	4,237,247
Total	147,030,446	48,922,929	54,838,037	250,791,412
Closing:				
Aluminum products	5,193,451	6,800,408	4,099,071	16,092,930
Brass and copper products	12,524,801	7,672,015	7,187,893	27,384,709
White metal products	3,524,257	1,276,527	2,975,562	7,776,346
Jewellery and silverware	6,054,771	2,845,678	5,527,269	14,427,718
Non-ferrous smelting and refining	133,136,000	38,735,000	34,507,000	206,378,000
Miscellaneous	2,934,688	955,388	849,843	4,739,919
Total	163,367,968	58,285,016	55,146,638	276,799,622
(b) By provinces				
Opening:				
Nova Scotia, New Brunswick and Quebec	56,631,456	12,158,908	13,093,605	81,883,969
Ontario	60,321,429	31,827,151	30,626,959	122,775,539
Manitoba	1,539,632	224,073	381,387	2,145,092
Saskatchewan and Alberta	4,541,857	731,427	735,869	6,009,153
British Columbia and Yukon	23,996,072	3,981,370	10,000,217	37,977,659
Canada	147,030,446	48,922,929	54,838,037	250,791,412
Closing:				
New Brunswick and Quebec	64,038,251	14,319,633	11,739,799	90,097,683
Ontario	63,695,821	36,959,902	32,522,494	133,178,217
Manitoba	1,517,473	218,563	281,183	2,017,219
Saskatchewan and Alberta	4,922,609	821,409	633,296	6,377,314
British Columbia and Yukon	29,193,814	5,965,509	9,969,866	45,129,189
Canada	163,367,968	58,285,016	55,146,638	276,799,622

¹ Book value of all manufacturing inventories owned and held at plant and plant warehouses.

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,
1956 and 1957**

	Average number of employees					Earnings		
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	Total
	Male	Female	Male	Female				
	dollars							
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 re- fining	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
1957								
(a) By industries:								
Aluminum products	1,866	851	3,925	275	6,917	12,934,113	14,541,248	27,475,361
Brass and copper products ..	1,450	591	6,315	469	8,825	9,873,957	24,929,506	34,803,463
White metal products	517	188	1,936	513	3,154	3,429,785	7,828,375	11,258,160
Jewellery and silverware	650	424	2,355	1,302	4,731	4,201,857	10,370,692	14,572,549
Non-ferrous smelting and re- fining	4,716	692	24,152	53	29,613	29,413,697	105,361,509	134,775,206
Miscellaneous	298	98	820	125	1,341	2,029,982	3,353,667	5,383,649
Total	9,497	2,844	39,503	2,737	54,581	61,883,391	166,384,997	228,268,388
(b) By provinces:								
Nova Scotia, New Brunswick and Quebec	3,920	1,062	12,457	730	18,169	24,471,884	49,766,435	74,238,319
Ontario	4,178	1,444	20,188	1,950	27,760	28,061,895	86,044,232	114,106,127
Manitoba	67	21	389	7	484	432,855	1,453,692	1,886,547
Saskatchewan and Alberta ..	269	34	958	—	1,261	1,614,985	4,201,068	5,816,053
British Columbia and Yukon	1,063	283	5,511	50	6,907	7,301,772	24,919,570	32,221,342
Canada	9,497	2,844	39,503	2,737	54,581	61,883,391	166,384,997	228,268,388

NON-FERROUS METAL PRODUCTS

TABLE 5. Production Workers (Wage-earners) in the Non-ferrous Metal Products Group, by Months and by Industries, 1956 and 1957

Month	Aluminum products	Brass and copper products	White metal products	Jewellery and Silverware	Non-ferrous smelting and refining	Miscellaneous	Total
number							
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
1957							
January	4, 321	6, 866	2, 478	3, 612	25, 185	945	43, 407
February	4, 312	6, 892	2, 544	3, 639	24, 782	994	43, 163
March	4, 217	6, 673	2, 444	3, 596	24, 403	1, 029	42, 362
April	4, 168	6, 619	2, 410	3, 583	25, 107	1, 047	42, 934
May	4, 164	6, 735	2, 493	3, 543	25, 892	938	43, 765
June	4, 108	6, 869	2, 459	3, 529	20, 730	955	38, 650
July	4, 226	6, 843	2, 437	3, 604	21, 035	961	39, 106
August	4, 356	6, 932	2, 417	3, 786	21, 020	944	39, 455
September	4, 373	6, 940	2, 453	3, 850	25, 523	878	44, 017
October	4, 144	6, 769	2, 436	3, 876	25, 844	862	43, 931
November	4, 018	6, 684	2, 428	3, 794	25, 596	888	43, 408
December	3, 886	6, 478	2, 391	3, 639	25, 327	863	42, 584
Average	4, 200	6, 784	2, 449	3, 657	24, 205	945	42, 240

**TABLE 6. Production Workers (Wage-earners) in the Non-ferrous Metal Products Group,
by Months and by Provinces, 1956 and 1957**

Month	New Brunswick and Quebec	Ontario	Manitoba	Saskatchewan and Alberta	British Columbia and Yukon	Total
	number					
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
1957						
January	14,751	21,868	407	935	5,446	43,407
February	14,367	21,956	413	943	5,484	43,163
March	13,629	21,787	414	966	5,566	42,362
April	14,128	21,758	406	954	5,688	42,934
May	14,681	22,013	410	956	5,705	43,765
June	9,254	22,310	413	974	5,699	38,650
July	9,283	22,627	405	1,009	5,782	39,106
August	9,419	22,882	392	991	5,771	39,455
September	14,407	22,719	382	952	5,557	44,017
October	14,790	22,342	376	944	5,479	43,931
November	14,800	21,958	372	931	5,347	43,408
December	14,631	21,481	373	932	5,167	42,584
Average	13,187	22,138	396	958	5,561	42,240

TABLE 7. Alphabetical List of Materials Used in the Industries in the Non-ferrous Metal Products Group, 1956 and 1957

Material	1956		1957		
	Quantity	Cost at works	Quantity	Cost at works	
		\$		\$	
Aluminum (except scrap):					
Ingots	ton	91,501	45,307,160	89,922	43,664,448
Castings	"	82	115,399	82	114,723
Circles and forms for hollow-ware	"	1,190	1,048,651	1,119	1,054,146
Sheet and strip	"	1,578	1,306,013	2,342	1,977,700
Rods and bars	"	336	282,007	993	683,564
Tubing	"	107	176,647	114	204,834
Wire	"	59	58,375	42	42,439
Form not stated	"	—	4,119,768	—	4,282,484
Alloy die castings	"	4,096	1,403,002	3,960	1,249,919
Antimony	"	806	386,054	729	336,359
Arsenic — Metallic arsenic	lb.	9,310	3,801	16,848	7,700
Oxide, As ₂ O ₃	"	81,144	5,206	73,668	5,455
Beads for artificial or simulated pearls:					
Glass	—	—	246,830	—	223,978
Other	—	—	207,468	—	156,775
Bismuth	lb.	38,571	83,886	34,871	78,549
Brass and bronze (except scrap):					
Ingots	ton	10,932	7,913,281	11,065	6,079,757
Bars and rods	"	1,974	1,576,902	1,810	1,078,440
Castings	"	705	796,401	1,494	1,451,700
Plates, sheets and strips	"	1,220	1,162,104	745	697,535
Pipe and tubing	"	502	572,183	364	413,841
Wire	"	301	442,829	430	631,336
Form not stated	—	—	1,359,850	—	1,396,375
Britannia metal, including blanks for plating	—	—	103,416	—	18,695
Cadmium	lb.	120,428	191,549	69,498	109,496
Coke, foundry	ton	2,196	66,622	1,456	43,963
Copper (except scrap):					
Ingots, slabs, wire bars, etc.	"	138,231	115,448,254	112,423	64,274,536
Pipe and tubing	"	151	196,765	176	186,505
Plates, sheets and strips	"	593	670,289	650	618,401
Rods	"	82	102,050	120	130,388
Wire	"	324	317,626	329	249,232
Form not stated	—	—	457,963	—	545,059
Diamonds, for rings, etc.	—	—	2,631,496	—	2,645,760
Glass linings and blanks, for silverware	—	—	133,871	—	181,558
Gold:					
Fine:					
New	—	—	5,205,150	—	4,482,824
Old	—	—	239,162	—	102,940
Old, for remelting or refining	—	—	699,680	—	199,701
Alloys	—	—	1,421,905	—	1,403,075
Gold-filled wire	—	—	146,254	—	151,113
Graphite	ton	23	14,914	35	24,204
Iridium	—	—	19,039	—	13,221
Iron, pig	ton	3,838	220,891	3,319	216,416
Jewellers' findings	—	—	903,189	—	1,064,166
Lead (except scrap):					
Pig:					
Pure	ton	21,404	6,486,497	17,757	4,989,387
Antimonial	"	2,080	669,160	2,471	716,802
Other forms	—	—	62,404	—	104,004
Lumber	M bd. ft.	637	65,670	477	58,031
Magnesium metal	ton	1,278	749,964	903	694,631
Manganese metal	"	63	48,172	84	60,701
Metals, other non-ferrous	—	—	2,715,946	—	2,006,471
Monel metal	ton	48	93,027	37	74,685
Nickel	"	1,662	2,179,139	1,530	2,262,161
Nickel-copper shot	"	12	15,465	7	10,057

TABLE 7. Alphabetical List of Materials Used in the Industries in the Non-ferrous Metal Products Group, 1956 and 1957 - Concluded

Material	1956		1957	
	Quantity	Cost at works	Quantity	Cost at works
		\$		\$
Nickel-silver, including blanks for plating	-	2,001,174	-	2,141,396
Palladium	-	240,831	-	275,092
Pearl essence	-	22,265	-	12,950
Platinum	-	1,218,798	-	1,182,835
Refractories	-	84,699	-	80,282
Resins, synthetic, and plastics	-	98,467	-	75,534
Rhodium	-	128,635	-	133,129
Rouge and other polishes	-	100,038	-	116,148
Sand:				
Foundry	ton 11,621	124,729	16,641	135,328
Silica	" 1,533	13,407	1,920	24,407
Scrap:				
Aluminum	" 12,446	4,666,014	12,390	4,644,970
Babbitt	" 1,702	698,971	1,925	599,462
Brass and bronze	" 30,932	19,008,950	29,366	12,708,208
Copper	" 11,182	7,358,169	12,577	6,572,235
Iron and steel	" 3,762	181,374	2,643	132,845
Lead:				
Battery plates and lugs	" 23,629	4,068,871	23,221	3,624,467
Cable	" 3,842	1,092,444	4,398	1,088,217
Dross	" 1,766	391,430	5,911	1,134,937
Other	" 3,181	1,207,235	4,888	1,314,565
Magnesium	-	5,695	-	17,925
Solder	ton 736	348,433	1,324	657,216
Tin	" 45	57,034	152	140,781
Type metal	" 2,150	806,896	2,216	773,805
Zinc	" 1,692	285,268	1,772	262,046
Zinc dross	" 1,946	452,796	4,234	458,269
Other metals	" 998	347,982	376	84,494
Silicon metal	lb. 222,138	49,263	557,569	121,040
Silver:				
Fine	-	3,689,139	-	4,000,358
Sterling	-	2,559,643	-	2,465,997
Other alloys	-	61,328	-	88,284
Stainless steel	-	2,311,222	-	2,090,028
Steel, other:				
Cutlery	-	90,121	-	130,790
Plates, sheets and strip	- 855	153,577	457	97,035
Other	-	1,858,982	-	2,043,533
Stones, other semi-precious and precious	-	1,122,458	-	986,908
Tellurium	lb. 1,202	2,200	1,653	2,977
Tin (except scrap):				
Ingots and slabs	ton 2,284	4,474,551	1,997	3,793,555
Other forms	" 22	44,324	29	57,147
Trimmings, knobs, handles, etc., for kitchenware	-	300,759	-	256,032
Waste and scrap for remelting and refining	-	973,047	-	1,451,713
Watch parts	-	78,124	-	54,561
Zinc (except scrap):				
Ingots and slabs	ton 18,288	5,391,444	16,236	3,953,400
Sheets	" 446	221,357	475	215,218
Other forms	-	83,852	-	74,572
Shipping containers and packing materials	-	2,847,341	-	3,310,506
Ores, concentrates, etc., for smelting and refining	-	820,604,322	-	770,004,696
All other materials	-	23,978,259	-	24,954,192
Amount paid out to others for work done on materials owned by plants in this group	-	2,206,292	-	2,131,190
Total	-	1,128,961,556	-	1,014,145,515

TABLE 8. Alphabetical List of Products Made in the Industries in the Non-ferrous Metal Products Group, 1956 and 1957

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	1956		1957		
	Quantity	Selling value at works	Quantity	Selling value at works	
		\$		\$	
Alloys, die casting	lb.	12,267,906	2,036,482	10,527,122	1,613,252
Alloys, non-ferrous, not elsewhere specified	"	1,714,103	394,431	1,434,125	354,754
Aluminum:					
Bars and rods			(a)	(a)	
Bottle caps and seals			(a)	(a)	
Castings (except die castings)	"	10,712,743	7,723,034	10,085,473	6,982,679
Conduit			(a)	(a)	
Cooking utensils and other kitchen hollow-ware	—	—	5,475,226	—	6,311,889
Extruded shapes	lb.	23,220,382	12,616,990	25,483,777	13,321,074
Forgings			(a)	(a)	
Hat dies and hat blocks			(a)	(a)	
Ingots and wire bars:					
New	ton	620,321	*	556,715	*
Remelt	lb.	3,697,009	1,091,621	3,679,686	911,040
Secondary (reclaimed from scrap)	"	12,438,698	3,366,865	14,269,937	3,079,749
Patterns and match plates	—	—	154,810	—	103,945
Powder			(a)	(a)	
Rivets			(a)	(a)	
Roofing			(a)	(a)	
Scrap	—	—	141,955	—	249,373
Sheets			(a)	(a)	
Stampings and spinings, not elsewhere specified	—	—	345,732	—	477,993
Tubing			(a)	(a)	
Other aluminum goods, including values for items marked (a) which were reported by only one or two concerns in this group	—	—	54,516,086	—	52,654,673
Anodes, for plating			*	*	
Architectural work of brass, bronze, copper or iron	—	—	175,749	—	150,428
Babbitt metal	lb.	2,963,491	1,194,011	2,175,563	1,046,854
Brass and bronze:					
Bars and rods			(b)	(b)	
Castings	"	34,020,962	19,042,834	29,748,645	14,378,614
Ingots	"	35,893,988	12,795,841	34,411,528	10,412,197
Powder			(b)	(b)	
Scrap	"	997,256	294,604	470,720	91,618
Sheets, plates and strips			(b)	(b)	
Other forms, including values for items marked (b)	—	—	32,618,740	—	21,678,134
Copper:					
Alloys, not elsewhere specified	lb.	330,700	402,900	1,843,316	546,851
Castings	"	599,601	466,854	1,043,498	607,570
Ingots, wire bars, etc., made in primary refineries	ton	328,458	271,524,975	323,540	185,100,050
Pipe and tubing			(c)	(c)	
Plates and sheets			(c)	(c)	
Scrap	lb.	2,759,791	1,127,447	72,039	19,768
Wire rods			(c)	(c)	
Other forms, including values for items marked (c)	—	—	119,731,035	—	75,431,415
Cadmium metal	lb.	1,925,610	2,896,493	2,028,826	2,904,248
Castings:					
Die:					
Aluminum base	lb.	2,665,754	2,123,613	2,023,369	1,430,503
Zinc base	"	16,535,878	8,452,695	15,616,010	7,250,447
Other	—	—	181,648	—	182,410
Grey iron	—	—	214,075	—	161,874
Other, not elsewhere specified	—	—	357,447	—	393,409
Church goods (chalices, etc.)	—	—	229,557	—	151,953
Dies	—	—	439,200	—	571,251
Emblems, badges and medals	—	—	806,835	—	840,236

TABLE 8. Alphabetical List of Products Made in the Industries in the Non-ferrous Metal Products Group, 1956 and 1957 - 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	1956		1957	
	Quantity	Selling value at works	Quantity	Selling value at works
		\$		\$
Fasteners, metal
Fire extinguishers and extinguishing systems	-	3,150,481		3,400,198
Flatware and cutlery:				
Not plated (including stainless)	-	1,064,848	-	1,031,502
Silver-plated	-	5,878,192	-	6,736,236
Sterling silver	-	1,796,942	-	1,876,887
Foils (lead, tin, aluminum, etc.)	-	9,890,490	-	10,558,775
Gauges, pressure and vacuum
Gold	1	1	1	1
Gold leaf
Gold-filled wire and other gold-filled stock	-	663,305	-	452,715
Hardware:	-	234,016	-	144,429
Hollow-ware:				
Silver-plated on brass or copper	-	1,175,923	-	1,139,959
Silver-plated on Britannia metal	-	63,121	-	78,616
Silver-plated on lead alloy	-	62,399	-	78,938
Silver-plated on nickel-silver	-	69,704	-	85,156
Sterling silver	-	286,975	-	287,772
Hollow-ware and spinnings, brass, bronze, copper, steel and monel	-	420,741	-	421,065
Hydrants
Jewellery:				
Of gold, silver and other metals (including stones)	-	18,182,605	-	20,468,562
Of plastics or other non-metallic materials	-	1,170,010	-	306,901
Lamps and lanterns, marine, portable and railway
Lead:				
Alloys, and elsewhere specified	lb. 898,170	326,914	1,191,200	269,236
Bars or ingots (antimonial)	"			
Primary (made from virgin metal)	9,428,190	1,507,351	4,298,244	666,814
Secondary (reclaimed from scrap)	36,510,319	5,995,738	35,919,877	5,491,729
Bars or ingots (pure):				
New - produced in primary refineries	ton 147,865	39,746,031	142,935	32,932,147
Remelted in secondary refineries	lb. 5,035,504	870,331	4,863,455	778,545
Secondary (reclaimed from scrap)	" 5,605,239	885,713	8,860,067	1,311,887
Castings	" 707,005	202,553	451,863	103,002
Pipe	" 3,131,767	764,570	3,417,087	690,941
Sheet	" 4,818,263	1,052,360	4,811,182	953,506
Traps and fittings	" 2,393,973	1,027,743	1,324,208	726,816
Wire	"	(d)		(d)
Miscellaneous lead products, including value for items marked (d)	-	374,338	-	335,469
Lead, red
Lightning rods and supplies	-	333,763	-	217,643
Magnesium:				
Castings	-	2,226,701	-	1,893,467
Other magnesium products
Maple sugar equipment
Meters and meter parts, gas and water
Precious metals (gold, silver, etc.) in the following forms: recovered (for sale) from old material, sweepings, waste, etc., also precious metals purchased as such and only melted and rolled and otherwise prepared without alloying, for resale to the arts and industries and other precious metal alloys not specified elsewhere.				
Gold	-	3,920,791	-	3,531,459
Silver	-	4,701,050	-	4,687,640
Other precious metals including platinum, crucibles and electrodes	-	1,176,207	-	1,571,417

¹ See "Precious metals".

TABLE 8. Alphabetical List of Products Made in the Industries in the Non-ferrous Metal Products Group, 1956 and 1957 — 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	1956		1957	
	Quantity	Selling value at works	Quantity	Selling value at works
		\$		\$
Nickel in matte, oxides and salts, and refined nickel ton	178,515	222,204,860	187,958	258,977,309
Nickel-silver:				
Plates and sheets		*		*
Other forms		*		*
Pearls, artificial or simulated	—	801,597	—	385,210
Platinum, palladium, etc., in refinery residues and matte	—	22,407,090	—	25,731,333
Plumbers' brass fittings:				
Closet tank fittings	—	341,051	—	298,627
Lavatory and bath faucets, lavatory combinations	—	3,369,489	—	3,211,738
Sink faucets and sink combinations	—	907,566	—	966,410
Stops, and stop and drains	—	1,191,484	—	988,572
Traps, drains, supplies and other tubular fittings	—	1,981,109	—	1,665,102
Tub-fillers, showers, and combinations of same	—	4,178,576	—	3,007,894
Any other brass plumbing fittings	—		—	
Plumbing fixtures, cast iron	—	464,979	—	372,258
Pot scourers	—	586,103	—	696,265
Precious metal salts	—	*	—	*
Railway car bearings and fittings, brass and bronze	—	*	—	*
Scrap and dross sold	—	624,567	—	*
Selenium	355,024	5,432,075	332,011	3,505,507
Shot, dropped or moulded		*		*
Silver	¹	¹	¹	¹
Solders	12,936,583	6,086,370	11,994,225	5,890,322
Smelter and refinery products, not elsewhere specified	—	492,222,821	—	474,091,573
Steam boiler trimmings, including gauge cocks and water gauge mountings	—	85,452	—	55,000
Stellite and stellite products	—	*	—	*
Sweeps, jewellers', prepared	—	485,658	—	338,077
Tanks, kettles and coils for breweries	—	149,138	—	331,518
Tellurium	15,915	30,254	34,895	65,543
Terrazzo stripping, brass, zinc, magnesium		*		*
Tin:				
Alloys, not elsewhere specified		*		*
New — produced in primary refineries	193,284	193,284	151,593	151,593
Remelted in secondary refineries	57,262	61,796	37,057	38,993
Secondary (reclaimed from scrap)	31,132	31,028	38,474	34,088
Toiletware and dresserware:				
Sterling silver	—	225,523	—	192,309
Other metals	—	187,137	—	177,269
Trophies	—	596,660	—	646,714
Tubes, collapsible	—	*	—	*
Type and type metal	9,974,777	2,613,598	9,085,807	2,698,302
Valves:				
Brass or bronze (gate, globe, check, etc.)	—	4,799,508	—	4,759,029
Corporation brass (main and curb stops, etc.)	—	1,471,323	—	1,476,930
Radiator valves (all types)	—	351,731	—	387,057
Iron body (gate, globe, check, etc.)	—	4,181,569	—	4,160,213
Pressure regulators and relief valves	—	204,445	—	376,917
Steel	—	370,790	—	162,499
Other types	—	930,663	—	1,324,033

¹ See "Precious metals".

TABLE 8. Alphabetical List of Products Made in the Industries in the Non-ferrous Metal Products Group, 1956 and 1957 - 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	1956		1957	
	Quantity	Selling value at works	Quantity	Selling value at works
		\$		\$
Watch cases	—	100,893	—	34,948
Watches:				
Wrist	—	491,870	—	513,483
Other	—	3,000	—	—
Weatherstripping	—	427,458	—	380,886
Zinc:				
Alloys not elsewhere specified	lb. 856,862	156,544	879,625	151,669
Castings	" 13,413	9,389	63,973	11,305
Dust	"			
Bars, slabs, etc.:				
New — produced in primary refineries	ton 255,564	63,243,962	247,316	48,391,297
Remelted in secondary refineries	lb. 165,784	29,648	144,027	18,241
Secondary (reclaimed from scrap)	" 5,102,522	693,279	5,498,327	642,564
All other products (including products reported by only one or two firms in this group marked * above)	—	340,331,702	—	319,542,418
Amount received in payment for repair and custom work	—	4,737,432	—	3,991,645
Total	—	1,862,156,162	—	1,683,382,440

TABLE 9. Capital and Repair Expenditures in the Non-ferrous Metal Products Group, 1956 and 1957

Industry	Capital expenditures			Repair expenditures			Total capital and repair expenditures
	Construction	Machinery and equipment	Sub-total	Construction	Machinery and equipment	Sub-total	
	thousands of dollars						
1956							
Aluminum products	1,493	2,536	4,029	329	2,336	2,665	6,694
Brass and copper products ..	4,664	4,387	9,051	1,640	2,994	3,634	12,685
White metal products	822	1,362	2,184	1	1	1,317	3,501
Jewellery and silverware	576	539	1,115	1	1	554	1,669
Non-ferrous smelting and refining	53,663	45,654	99,317	10,161	43,574	53,735	153,052
Miscellaneous	1,176	489	1,665	1	1	312	1,977
Total	62,394	54,967	117,361	11,367	50,850	62,217	179,578
1957							
Aluminum products	1,189	3,389	4,578	261	2,483	2,744	7,322
Brass and copper products ..	4,257	6,740	10,997	538	2,896	3,434	14,431
White metal products	315	1,083	1,398	1	1	951	2,349
Jewellery and silverware	128	616	744	101	435	536	1,280
Non-ferrous smelting and refining	63,611	61,696	125,307	7,366	46,720	54,086	179,393
Miscellaneous	490	1,262	1,752	1	1	479	2,231
Total	69,990	74,786	144,776	8,432	53,798	62,230	207,006

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

Note: Data shown for 1956 and 1957 in above table are final figures and therefore, differ to some extent from the preliminary figures shown in the bulletins for the individual industries.

TABLE 10. Fuel and Electricity Used in the Manufacture of Non-ferrous Metal Products in Canada by Industries and by Provinces, 1957

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)	
	From Canadian mines	Imported						
				tons			Imp. gal.	
	(a) By industries							
	Aluminum products:							
1	Quantity	47	12,561	—	98	—	26	80,349
2	Cost	\$ 770	\$ 139,467	—	2,766	—	672	30,008
	Brass and copper products:							
3	Quantity	3,349	20,984	2	990	—	650	296,646
4	Cost	\$ 45,739	\$ 258,330	48	13,618	—	12,609	115,329
	White metal products:							
5	Quantity	263	1,242	—	800	—	2,036	210,278
6	Cost	\$ 3,664	\$ 16,539	—	12,619	—	52,041	89,145
	Jewellery and silverware:							
7	Quantity	333	3,616	—	25	—	—	46,676
8	Cost	\$ 4,897	\$ 43,754	—	545	—	—	19,440
	Non-ferrous smelting and refining:							
9	Quantity	410,075	539,158	37	80,979	—	277,377	730,354
10	Cost	\$ 5,591,880	\$ 6,205,139	577	1,145,687	—	6,087,584	261,956
	Miscellaneous:							
11	Quantity	—	16	—	8	5	—	13,486
12	Cost	\$ —	\$ 315	—	210	53	—	5,877
	Total 1957:							
13	Quantity	414,067	577,577	39	82,900	5	280,089	1,377,789
14	Cost	\$ 5,646,950	\$ 6,663,544	625	1,175,445	53	6,152,906	521,755
	(b) By provinces							
	Nova Scotia, New Brunswick and Quebec:							
15	Quantity	207,102	8,611	—	82,458	—	1,014	453,725
16	Cost	\$ 2,718,816	\$ 107,532	—	1,165,837	—	23,907	175,439
	Ontario:							
17	Quantity	930	568,966	—	442	—	227,083	552,407
18	Cost	\$ 12,623	\$ 6,556,012	—	9,608	—	4,829,515	207,162
	Manitoba:							
19	Quantity	26,598	—	9	—	5	—	29,017
20	Cost	\$ 363,701	—	114	—	53	—	11,633
	Saskatchewan and Alberta:							
21	Quantity	106,682	—	28	—	—	—	24,875
22	Cost	\$ 1,460,484	—	463	—	—	—	7,088
	British Columbia and Yukon:							
23	Quantity	72,755	—	2	—	—	51,992	317,765
24	Cost	\$ 1,091,326	—	48	—	—	1,299,484	120,433
	Total 1957:							
25	Quantity	414,067	577,577	39	82,900	5	280,089	1,377,789
26	Cost	\$ 5,646,950	\$ 6,663,544	625	1,175,445	53	6,152,906	521,755

TABLE 10. Fuel and Electricity Used in the Manufacture of Non-ferrous Metal Products in Canada,
by Industries and by Provinces, 1957

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.	\$		
63,000	3,668,194	—	82,402	31,178	50,793	—	164,785,803	—	—	1
17,285	467,360	—	21,106	57,551	66,518	11,564	1,037,159	—	1,852,226	2
24,046	4,397,791	15	523,945	22,491	196,283	—	90,737,681	—	—	3
6,243	618,445	201	73,997	21,710	190,895	92,370	992,881	—	2,442,415	4
44,132	2,137,803	7	123,990	221,625	153,118	—	21,871,228	—	—	5
8,727	306,655	70	23,653	94,507	146,682	600	253,535	—	1,008,437	6
—	566,263	—	25,595	4,628	26,028	—	12,999,289	—	—	7
—	90,489	—	6,573	4,654	41,294	8,990	183,880	—	404,516	8
15,560	67,971,634	2,607	57,873	163,318	1,660,195	—	13,668,242,948	1,036,648,202	—	9
4,592	7,588,700	51,367	21,497	100,728	219,348	21,604	32,174,132	—	59,474,791	10
45	698,185	—	5,112	451	44,965	—	18,108,109	—	—	11
12	100,375	—	1,358	518	59,486	1,171	149,647	—	319,022	12
146,783	79,439,870	2,629	818,917	443,691	2,131,382	—	13,976,745,058	1,036,648,202	—	13
36,859	9,172,024	51,638	148,184	279,668	724,223	136,299	34,791,234	—	65,501,407	14
77,075	35,274,193	2,134	502,989	197,042	—	—	8,972,490,717	16,568,380	—	15
21,029	3,326,463	46,125	71,041	144,900	—	19,084	22,438,739	—	30,258,912	16
84,312	40,282,845	2	309,376	242,950	424,422	—	1,367,572,022	6,888,000	—	17
14,109	5,137,035	24	74,143	130,633	481,839	109,924	7,089,266	—	24,651,893	18
275	380,229	42	600	2,786	5,892	—	44,105,798	17,158,700	—	19
82	55,030	416	300	2,861	6,667	410	97,808	—	539,075	20
1,210	1,199,651	169	—	—	1,697,043	—	303,399,591	19,685,000	—	21
362	127,973	1,694	—	—	228,738	405	674,083	—	2,501,290	22
3,911	2,302,952	282	5,952	913	4,025	—	3,289,176,930	976,350,122	—	23
1,277	525,523	3,379	2,700	1,274	6,979	6,476	4,491,338	—	7,550,237	24
146,783	79,439,870	2,629	818,917	443,691	2,131,382	—	13,976,745,058	1,036,648,202	—	25
36,859	9,172,024	51,638	148,184	279,668	724,223	136,299	34,791,234	—	65,501,407	26



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