

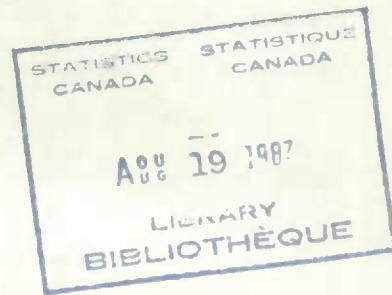
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CANADA



THE BRASS AND COPPER PRODUCTS INDUSTRY

1956



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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, \$1.50

II — The Manufacturing Industries of Canada, (7 sections, as follows):

Section A. Summary for Canada, 25¢

Section B. Atlantic Provinces, 50¢

Section C. Quebec, 25¢

Section D. Ontario, 25¢

Section E. Prairie Provinces, 40¢

Section F. British Columbia, 25¢

Section G. The Manufacturing Industries of Canada,
Regional Distribution, 75¢

III — Foods and Beverages

IV — Tobacco and Tobacco Products

V — Rubber Products

VI — Leather Products

VII — Textile Mills

VIII — Knitting Mills

IX — Clothing

X — Wood and Paper Products

XI — Printing Trades

XII — Iron and Steel Products.

XIII — Transportation Equipment

XIV — Non-ferrous Metal Products

XV — Electrical Apparatus and Supplies

XVI — Non-metallic Mineral Products

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, 25¢

B — The Aluminum Products Industry, 25¢

C — The Brass and Copper Products Industry, 25¢

D — The White Metal Alloys Industry, 25¢

E — The Jewellery and Silverware Industry, 25¢

F — The Smelting and Refining Industry, 25¢

G — The Miscellaneous Non-ferrous Metal Products Industry, 25¢

THE BRASS AND COPPER PRODUCTS INDUSTRY

1956

This report covers the operations of brass foundries and other plants in Canada engaged chiefly in the manufacture of commodities (other than electrical equipment and wire cloth) from brass, bronze or copper. One hundred and eight foundries and 46 fabricating plants reported under this industry in 1956 and their factory shipments were valued at \$244,096,116. In 1955 the output value amounted to \$216,500,000 and in 1954 to \$157,907,751.

Products manufactured during 1956 by firms in this group included ingots, bars, rods, plates, sheets, tubing and such further fabricated lines as valves, kettles and tanks, plumbing supplies, gas and water meters, fire extinguishers, lightning rods, metal fasteners, hardware, etc. Copper wire and cable, lighting fixtures, switches and other such articles for electrical purposes have not been listed in this group but have been classified to the Electrical Apparatus and Supplies Industry, which is dealt with in a separate report. Wire cloth is covered in the Wire and Wire Goods Industry.

Brass foundry departments, which were run by iron foundries or by manufacturers of machinery, farm implements, etc., as a secondary or minor part of their operations, are not included in this

group as, in such instances, separate reports were not required for the brass foundry divisions and all data concerning the same were included in the industries of major importance.

A total of 154 plants were included in this group during 1956, of which 87 were located in Ontario, 40 in Quebec, 16 in British Columbia, 6 in Manitoba, 4 in Alberta and 1 in New Brunswick. Ontario factories accounted for 55 per cent of the total and Quebec plants for 40 per cent.

The number of employees in 1956 totalled 9,220 compared with 8,864 in 1955 and salaries and wages aggregated \$34,729,361 as against \$32,274,041 for the previous year.

Note. Figures for value added by manufacture, shown in Table 1, 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 and later years information on the value of year-end inventory holdings at plant and plant warehouses was collected as part of the annual Census of Industry and information thus made available was taken into account in calculating the value added figures.

**TABLE 1. Principal Statistics of the Brass and Copper Products Industry, Significant Years
1929-1956, and by Provinces, 1955 and 1956**

Year and province	Estab-	Em-	Salaries	Cost of	Cost of	Value	Gross selling
	lish-	ployees	and	fuel and	materials	added by	value of
	No.	No.	\$	\$	\$	\$	\$
1929	102	6,232	7,800,591	619,946	21,118,038	14,377,597	36,115,581
1932	119	3,535	3,880,838	402,025	3,949,157	5,242,933	9,594,115
1937	125	5,094	6,310,384	625,961	21,498,095	12,329,104	34,453,160
1939	129	5,217	6,706,040	617,235	18,961,128	12,533,549	32,111,912
1943	158	21,899	40,731,201	3,254,224	108,330,435	81,403,059	192,987,718
1946	162	10,252	18,425,724	1,198,680	39,983,930	30,874,312	72,056,922
1949	162	9,389	22,943,888	1,662,442	73,045,193	40,700,161	115,407,796
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							
Quebec	38	2,727	9,799,133	807,064	58,610,903	21,342,012	81,300,006
Ontario	91	5,301	19,801,401	1,203,649	87,350,242	38,443,888	126,223,042
British Columbia	17	173	631,155	40,336	919,462	882,611	1,830,670
Manitoba	6	142	480,846	43,239	1,841,669	982,053	2,858,275
New Brunswick	1	521	1,561,506	95,244	1,672,758	2,435,887	4,288,007
Alberta	4						
Canada	157	8,864	32,274,041	2,189,532	150,395,034	64,086,451	216,500,000
1956							
Quebec	40	2,952	11,261,272	871,225	74,305,581	23,627,385	97,915,790
Ontario	87	5,368	20,575,710	1,324,500	92,894,966	40,439,412	134,380,898
British Columbia	16	191	764,949	57,770	1,568,285	1,056,533	2,632,583
Manitoba	6	149	531,522	47,188	2,433,918	1,071,233	3,526,910
New Brunswick	1	560	1,595,908	104,430	2,398,915	3,303,343	5,639,935
Alberta	4						
Canada	154	9,220	34,729,361	2,405,113	173,601,663	69,497,906	244,096,116

Note. Profits or losses cannot be calculated from above figures as data are not available for general expense items, such as interest, rent, depreciation, taxes, insurance, advertising, etc.

1. See footnote to Text.

TABLE 2. Principal Statistics, by Sub-Groups, 1955 and 1956

	Establishments	Employees	Salaries and wages	Cost of fuel and electricity at plant	Cost of materials at plant	Value of factory shipments
	No.	No.	\$	\$	\$	\$
1955						
Foundries making taps, valves, etc.	15	3,078	10,419,158	416,713	9,988,990	28,083,184
Other brass and bronze foundries	96	4,548	17,730,304	1,518,363	74,161,101	111,739,603
Fabricating plants (not foundries)	46	1,238	4,124,579	254,456	66,244,943	76,677,213
Total	157	8,864	32,274,041	2,189,532	150,395,034	216,500,000
1956						
Foundries making taps, valves, etc.	14	3,036	10,453,694	428,370	9,076,496	29,383,252
Other brass and bronze foundries	94	4,811	19,365,954	1,657,716	82,648,976	120,546,811
Fabricating plants (not foundries)	46	1,373	4,909,713	319,027	81,876,193	94,166,053
Total	154	9,220	34,729,361	2,405,113	173,601,665	244,096,116

Note. In Table 2 data for foundries are only for the foundries which were occupied chiefly in making valves, plumbers' goods, castings, etc., as their regular line of goods for sale. Brass foundry departments, which were run by iron foundries or by manufacturers of machinery, etc., as a secondary or minor part of their operations, are not included as, in such cases, separate reports are not required for the brass foundry divisions. Ingot makers are included with foundries as also are the concerns which make brass and roll same into rods, sheets, cartridge discs, etc.

TABLE 3. Inventories¹, 1956

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
	\$	\$	\$	\$
Opening:				
Quebec	3,350,865	4,041,629	1,976,713	9,369,207
Ontario	7,283,759	3,008,913	4,226,381	14,519,053
Manitoba	199,640	23,019	120,742	343,401
British Columbia	112,479	95,616	53,343	261,438
New Brunswick and Alberta	208,877	566,620	183,392	958,889
Canada	11,155,620	7,735,797	6,560,571	25,451,988
Closing:				
Quebec	3,406,125	4,276,292	2,630,451	10,312,868
Ontario	10,017,969	2,653,449	4,859,825	17,531,243
Manitoba	212,096	35,774	133,416	381,286
British Columbia	115,502	115,997	82,967	314,466
New Brunswick and Alberta	225,849	745,019	171,746	1,142,614
Canada	13,977,541	7,826,531	7,878,405	29,682,477

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

(b) Beginning with 1954, information on the value of year-end inventory holdings at plant and plant warehouses is being collected as part of the annual Census of Industry. These data were formerly collected by a separate survey. The summarized results for the Brass and Copper Products Industry for the year under review are shown in the above table.

(c) The opening inventory for 1956 does not necessarily agree with the closing inventory for 1955 because of the addition of new plants, the transfer of plants to other industries and plants going out of business, etc. However, the value added figures for the previous year have not been recalculated to allow for the changes mentioned above.

TABLE 4. Materials Used in the Brass and Copper Products Industry, 1955 and 1956

Material	1955		1956		
	Quantity	Cost at plant	Quantity	Cost at plant	
Aluminum:		\$		\$	
Ingots	lb.	1,600,437	396,574	1,483,955	412,048
Scrap	"	4,703,557	953,048	5,318,114	1,051,618
Other forms	"	2,079,138	689,564	2,279,196	1,078,667
Antimony	lb.	28,479	10,609	45,333	10,458
Brass and bronze:					
Ingots	lb.	23,047,734	7,643,163	21,549,004	7,781,787
Scrap	"	51,452,919	14,540,132	53,428,215	16,957,262
Bars and rods	"	3,712,551	1,449,950	3,947,193	1,576,902
Plates, sheets and strip	"	2,619,121	1,290,701	2,396,931	1,140,223
Pipe and tubing	"	1,153,270	622,316	1,004,679	572,183
Wire	"	378,885	243,659	601,879	442,829
Castings	"	2,785,495	1,276,848	1,409,929	796,401
Other forms	"	309,100	186,520	263,912	223,109
Copper:					
Ingots, slabs, wire bars, etc.	lb.	266,944,665	98,956,753	275,452,129	115,019,466
Scrap	"	12,536,605	4,303,454	18,651,187	6,214,066
Rods	"	42,987	26,327	164,609	102,050
Pipe and tubing	"	460,400	281,207	301,964	196,765
Plates, sheets and strip	"	1,206,133	677,791	1,143,226	646,740
Wire	"	506,757	247,968	647,679	317,626
Other forms	"	246,250	120,262	30,778	22,098
Lead:					
Pig	lb.	818,064	129,418	682,915	114,034
Scrap	"	604,015	81,816	807,547	121,728
Other forms	"	67,333	34,406	42,794	17,027
Magnesium, all forms	lb.	75,813	34,451	128,642	50,810
Manganese metal	"	51,814	17,656	111,319	40,438
Monel metal	"	127,086	77,002	95,347	93,027
Nickel	"	678,343	446,771	895,584	600,445
Nickel-copper shot	"	27,054	17,837	23,377	15,465
Nickel-silver, all forms	"	1,107,548	373,254	1,646,408	599,600
Tin:					
Ingots:					
Phosphor tin	lb.	160,928	158,611	198,606	201,752
Other tin ingots	"	163,064	157,167	249,472	252,509
Scrap	"	10,542	6,001	—	—
Other forms	"	59,572	40,936	3,024	2,652
Zinc:					
Ingots and slabs	lb.	17,485,080	2,315,802	14,255,978	2,130,836
Scrap	"	913,819	78,100	1,100,969	117,085
Sheets	"	1,135,274	266,635	892,763	221,357
Other forms	—	—	9,423	—	6,292
Other non-ferrous metals	—	—	960,635	—	1,754,447
Iron and steel:					
Pig iron	tons	3,793	239,029	3,838	220,891
Steel bars and rods	"	451	134,060		
Steel wire	"	182	147,486		
Steel sheets	"	747	151,240		
Iron and steel scrap	"	3,159	118,693	3,762	181,374
Other iron and steel including stainless	"	1	1	—	3,010,764
Lumber	M bd. ft.	421	49,866	614	63,337
Crucibles	—	—	81,066	1	1
Foundry coke	tons	1,389	40,967	2,068	64,523
Foundry facings	lb.	137,383	15,217	1	1
Foundry sands	tons	10,078	103,190	11,621	124,729
Graphite	lb.	39,846	9,269	45,385	14,914
Refractories	—	—	55,013	—	84,699
Other materials	—	—	9,191,135	—	8,120,182
Containers and packing materials	—	—	936,036	—	814,450
Total all materials	—	—	150,395,034	—	173,601,665

1. Not specified separately.

TABLE 5. Products Made in the Brass and Copper Products Industry, 1955 and 1956

Product	1955		1956	
	Quantity	Value of factory shipments	Quantity	Value of factory shipments
		\$		\$
Aluminum:				
Castings	1,385,179	1,208,975	1,537,654	1,374,548
Other forms	—	1,830,851	—	1,962,830
Brass and bronze:				
Ingots	11,464	7,765,451	12,198	8,799,132
Castings	14,627	14,892,593	16,361	17,798,060
Scrap	408	262,243	498	294,604
Other forms (excluding cartridge cases) ¹	32,792	32,093,109	27,251	30,464,586
Copper sheets, wire rods, tubing, etc.	116,063	103,711,334	123,194	121,325,336
Fire extinguishers, hand-type	—	2,308,630	—	2,911,841
Hardware	—	238,593	—	234,016
Lightning rods and supplies	—	309,631	—	333,763
Plumbers' brass fittings	—	12,189,352	—	11,969,275
Cast iron plumbing fixtures	—	413,439	—	464,979
Valves:				
Iron and steel body	—	3,615,929	—	4,552,359
Brass and bronze, including radiator valves and traps	—	6,273,783	—	5,151,239
Ships' fittings	—	215,677	—	312,693
Steam boiler trimmings, including gauge cocks and water gauge mountings	—	98,180	—	85,452
Amount received for repair work	—	1,210,218	—	1,711,794
All other products, including items made by only 1 or 2 concerns ²	—	27,862,012	—	34,349,609
Total all products	—	216,500,000	—	244,096,116

Note. The data in this table are for the Brass and Copper Products Industry only and do not necessarily represent the total Canadian output of the items that are listed. Concerns in other industries may have made such articles as secondary products. The total production of plumbers' brass fittings and hand-type fire extinguishers from all industries is shown in Tables 6 and 7.

1. Includes bars, rods, sheets, strips, tubing, powder, etc.

2. Includes railway car fittings, kettles, cosmetic containers, gauges, brewery distillation equipment, gas and water meters, cartridge cases, etc.

TABLE 6. (a) Total Production in Canada of Plumbers' Brass Fittings, 1955
(From all industries)

Product	Value of factory shipments	1955	
		\$	
Tub fillers, showers, and combinations of same	2,007,000		
Traps, drains, supplies and other tubular fittings	2,459,000		
Stops, and stop and drains	1,231,000		
Sink faucets and sink combinations	2,321,000		
Lavatory and bath faucets, lavatory combinations	2,352,000		
Closet tank fittings	1,515,000		
All other brass plumbing fittings	4,664,000		
Total	16,549,000		

**TABLE 6. (b) Total Production in Canada of Plumbers' Brass Fittings, 1956
(From all industries)**

Product	Value of factory shipments
	\$
Bath waste and overflows	666,000
Faucets, sink, lavatory and bath, and their combinations	4,147,000
Plumbing fixture, trim	1,134,000
Stops	1,021,000
Traps	912,000
Tub-fitters, showers and combinations of same	2,625,000
Toilet tank fittings	1,381,000
Other brass plumbing fixtures	4,154,000
Total	16,040,000

Note. Because of a change in classification some of the 1956 figures in the above table are not strictly comparable with the 1955 figures.

**TABLE 7. Total Production¹ in Canada of Hand-Type Fire Extinguishers, 1947-1956
(From all industries)**

Year	Selling value at works	Year	Selling value at works
	\$		\$
1947	713,000	1952	1,840,000
1948	967,000	1953	1,767,000
1949	1,225,000	1954	2,140,000
1950	1,464,000	1955	2,890,000
1951	1,825,000	1956	2,912,000

1. Factory shipments since 1952.

TABLE 8. Principal Statistics Classified According to Type of Ownership, 1955 and 1956

Type	Estab- lish- ments	Employees	Salaries and wages	Cost at plant of materials used	Selling value of factory shipments
1955					
Individual ownerships	34	158	348,134	627,054	1,189,499
Partnerships	19	146	387,248	746,042	1,317,780
Incorporated companies	104	8,560	31,538,659	149,021,938	213,992,721
Total	157	8,864	32,274,041	150,395,034	216,500,000
1956					
Individual ownerships	32	135	320,061	574,364	1,049,063
Partnerships	16	139	405,874	683,032	1,293,224
Incorporated companies	106	8,946	34,003,426	172,344,269	241,753,829
Total	154	9,220	34,729,361	173,601,665	244,096,116

NON-FERROUS METAL PRODUCTS

**TABLE 9. Principal Statistics of the Brass and Copper Products Industry in Canada,
Grouped According to Selling Value of Factory Shipments, 1955 and 1956**

Type	Establishments	Employees	Salaries and wages	Cost at plant of materials used	Selling value of factory shipments
	No.	No.	\$	\$	*
1955					
Under \$25,000	36	90	180,282	216,855	473,391
\$25,000 to \$49,999	13	77	168,823	202,019	444,883
\$50,000 to \$99,999	26	235	661,054	825,848	1,716,149
\$100,000 to \$199,999	24	392	1,191,331	1,702,179	3,421,904
\$200,000 to \$499,999	19	531	1,647,199	2,955,771	6,314,590
\$500,000 to \$999,999	12	705	2,387,234	4,758,528	8,960,787
\$1,000,000 to \$4,999,999	22	4,008	14,177,496	28,216,029	53,637,336
\$5,000,000 and over	5	2,812	11,792,618	111,517,805	141,530,960
Head offices	—	14	68,004	—	—
Total	157	8,864	32,274,041	150,395,034	216,500,000
1956					
Under \$10,000	11	13	26,457	25,272	50,582
\$10,000 to \$24,999	19	52	110,512	138,001	295,840
\$25,000 to \$49,999	18	100	248,210	283,632	643,215
\$50,000 to \$99,999	20	182	505,194	682,345	1,417,424
\$100,000 to \$199,999	24	379	1,134,474	1,698,034	3,538,051
\$200,000 to \$499,999	20	572	1,805,445	3,909,196	6,919,923
\$500,000 to \$999,999	10	382	1,418,874	3,558,878	6,883,393
\$1,000,000 to \$4,999,999	26	4,368	16,201,414	30,918,209	62,153,188
\$5,000,000 and over	6	3,163	13,204,955	132,388,098	162,194,500
Head offices	—	11	73,826	—	—
Total	154	9,220	34,729,361	173,601,665	244,096,116

TABLE 10. Employees and Their Earnings in the Brass and Copper Products Industry, by Provinces, 1955 and 1956

Province	Number of employees				Earnings			
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	
	Male	Female	Male	Female				
1955								
Quebec	459	167	2,037	64	2,727	2,718,547	7,080,586	9,799,133
Ontario	783	375	3,755	388	5,301	5,149,823	14,651,578	19,801,401
British Columbia	42	7	124	—	173	202,012	429,143	631,155
Other provinces	82	31	495	55	663	533,878	1,508,474	2,042,352
Canada	1,366	580	6,411	507	8,864	8,604,260	23,669,781	32,274,041
1956								
Quebec	459	178	2,247	68	2,952	2,957,466	8,303,806	11,261,272
Ontario	829	374	3,742	423	5,368	5,479,148	15,096,562	20,575,710
British Columbia	40	7	144	—	191	209,654	555,295	764,949
Other provinces	82	31	536	60	709	550,320	1,577,110	2,127,430
Canada	1,410	590	6,669	551	9,220	9,196,588	25,532,773	34,729,361

TABLE 11. Production Workers, by Months, 1955 and 1956

Month	1955			1956		
	Male	Female	Total	Male	Female	Total
Number						
January	6,155	434	6,589	6,669	568	7,237
February	6,147	448	6,595	6,792	566	7,358
March	6,183	468	6,651	6,856	580	7,436
April	6,178	466	6,644	6,887	585	7,472
May	6,266	484	6,750	6,909	594	7,503
June	6,420	513	6,933	6,757	598	7,355
July	6,347	526	6,873	6,557	558	7,115
August	6,437	530	6,967	6,556	539	7,095
September	6,626	539	7,165	6,591	534	7,125
October	6,732	553	7,285	6,506	531	7,037
November	6,764	571	7,335	6,466	489	6,955
December	6,673	536	7,209	6,471	469	6,940
Average	6,411	507	6,918	6,669	551	7,220

TABLE 12. Capital and Repair Expenditures in the Brass and Copper Products Industry, 1952-1956

Year	Capital expenditures		Sub-total	Repair and maintenance expenditures		Sub-total	Total capital and repair expenditures
	Construction	Machinery and equipment		Construction	Machinery and equipment		
\$'000							
1952	1,207	2,823	4,030	539	2,944	3,483	7,513
1953	974	3,723	4,697	587	2,557	3,144	7,841
1954	533	3,006	3,539	617	2,647	3,264	6,803
1955	948	2,281	3,229	625	2,751	3,376	6,605
1956 ¹	4,379	3,600	7,979	650	2,982	3,632	11,611

1. Preliminary.

TABLE 13. Imports into Canada of Brass and Copper and Their Products, 1955 and 1956

Item	1955		1956	
	Quantity	Value	Quantity	Value
Brass and its products:				
Brass in blocks, ingots or pigs	cwt.	\$	\$	\$
Brass scrap	"	87	5,530	217
Brass scrap	"	1,509	40,002	9,246
Brass in bars or rods	"	3,946	176,346	14,543
Brass in strips, sheets or plates	"	10,201	459,411	16,159
Brass tubing	"	11,843	854,399	17,089
Metal caps, for use in the manufacture of electric batteries	"	—	55,257	—
Coin locks of which solid brass or bronze are the components of chief value, plain, polished or plated	"	—	1,197	—
Pumps, hand, brass, n.o.p.	"	—	25,828	—
Valves, brass	"	—	4,027,519	—
Meters, brass, and parts, n.o.p.	"	—	305,477	—
Brass wire, for the manufacture of fourdrinier wire or of paper-machine wire cloth	"	—	15,982	—
Wire, brass, n.o.p.	lb.	90,736	47,132	145,737
Wire cloth, or woven wire of brass, n.o.p.	"	—	98,139	—
Manufactures of brass, n.o.p.	"	—	13,097,007	—
				14,730,735

TABLE 13. Imports into Canada of Brass and Copper and Their Products, 1955 and 1956—Concluded

Item	1955		1956	
	Quantity	Value	Quantity	Value
Copper and its products:		\$		\$
Copper, in blocks, pigs or ingots	cwt.	704	29,303	50,815
Copper scrap, cathode plates of electrolytic copper for melting	cwt.	45,015	1,734,427	129,173
Copper in bars or rods, for the manufacture of trolley, telegraph and telephone wires, electric wires, electric cables and electrical conductors	cwt.	23,165	721,913	43,246
Copper in bars or rods, n.o.p.	"	1,535	58,587	5,527
Copper in strips, sheets or plates	"	11,867	686,372	7,813
Copper tubing	"	9,455	594,866	18,265
Copper rollers and stones, used in the printing of textile fabrics or wallpaper	—	—	150,339	—
Copper wire, n.o.p.	lb.	121,645	71,914	193,483
Copper wire cloth or woven wire of copper	—	—	61,320	—
Copper, manufactures of, n.o.p.	—	—	1,086,974	—
				1,433,659

Note. "n.o.p." means "not otherwise provided for".

TABLE 14. Exports from Canada of Brass and Copper and Their Products, 1955 and 1956

Item	1955		1956	
	Quantity	Value	Quantity	Value
	cwt.	\$	cwt.	\$
Brass and its products:				
Brass scrap, dross and ashes	210,481	4,749,903	166,083	4,147,779
Brass in bars, ingots, rods, strips, sheets and plates	37,407	1,617,692	19,636	1,409,015
Brass tubing	12,118	612,670	9,048	567,752
Brass valves	—	443,840	—	537,703
Brass wire and bronze wire	2,724	122,340	329	24,150
Brass manufactures, n.o.p.	—	302,621	—	247,730
Copper and its products:				
Copper scrap, slag, skimmings and sludge	365,863	12,094,301	291,869	11,353,706
Copper in ingots, bars, cakes, slabs and billets	3,063,988	109,649,603	3,496,881	141,767,103
Copper in rods, strips, sheets and plates	335,895	13,617,069	198,666	9,955,771
Copper tubing	47,337	2,600,322	39,645	2,729,901
Copper wire and cable, insulated	—	6,607,791	—	6,563,626
Copper wire, bare	—	1,804,486	—	1,942,830
Copper wire screen	—	13,790	—	19,106
Copper manufactures, n.o.p.	—	99,412	—	38,278

Note. "n.o.p." means "not otherwise provided for".

TABLE 15. Fuel and Electricity Used in the Brass and Copper Products Industry, 1956

Kind	Quantity	Cost at works
		\$
Bituminous coal:		
(a) From Canadian mines	ton	9,551
(b) Imported	ton	14,437
Sub-bituminous coal (From Alberta mines only)	ton	6
Anthracite coal	ton	1,019
Coke, (For fuel only)	ton	626
Gasoline, (Including gasoline used in cars and trucks)	imp. gal.	324,946
Kerosene or coal oil	imp. gal.	54,270
Fuel oil	imp. gal.	4,542,936
Wood	cord	28
Gas:		
(a) Liquefied petroleum gases	imp. gal.	483,734
(b) Other manufactured gas	1,000 cu. ft.	39,240
(c) Natural gas	1,000 cu. ft.	150,519
Other fuel	—	—
Electricity purchased	k.w.h.	93,501,752
Total	—	2,405,113

Directory of Firms Included in the Brass and Copper Products Industry in Canada, 1956

Name of firm	Location of plant
(a) Foundries engaged chiefly in making brass valves, taps, plumbers' supplies, etc.	
New Brunswick:	
McAvity & Sons, T., Ltd.	Rothesay Ave., Saint John
Quebec:	
Cuthbert, W.R., & Co. Ltd.	47 Duke St., Montreal
Golden Gate Manufacturing Co. Ltd.	361 Youville St., Montreal
Jenkins Bros. Limited	617 St. Rémi St., Montreal, and St. Joseph St., Lachine
Robertson, James, Company Limited	946 William St., Montreal
Ontario:	
Canadian Brass, Limited	415 Dundas St., Galt
Empire Brass Manufacturing Company Limited	Dundas St. E., London
Galt Brass Company, Limited	471 Dundas St., Galt
Morrison, James, Brass Manufacturing Co. Ltd.	276 King St. W., Toronto
Mueller, Limited	Clifford St., Sarnia
Prescott Brass Manufacturing Co. Ltd.	Prescott
Wallaceburg Brass Ltd.	Wallaceburg
Wolverine Brass Company Limited	918 Palmerston Ave., Toronto
(b) Firms engaged chiefly in operating brass and bronze foundries (Other than for valves, taps, etc.)	
Quebec:	
Alliance Foundry & Pattern Works Reg'd.	915 St. Martin St., Montreal
Archambault Foundry Inc.	8016 Henri-Julien St., Montreal
Bouliane Brass Foundry	4270 Frontenac St., Montreal
Canadian Bronze Powder Works Limited	Valleyfield
Dauncey, P. A., Ltd.	118 Big Forks St. S., Sherbrooke
Dominion Brass & Aluminum Foundry Co.	24 Mont Vernon Ave., Ville St. Pierre
Eastern Brass Foundry, Limited	514 Harbour St., Montreal
Empire Brass Foundry Limited	137 Nazareth St., Montreal
Fonderie d'Art	221 Chemin Chamilly, Longueuil
Gaujin, Athanase	St-Francois, Cté, Montmagny
Hazel, James, & Son	333 Mgr. Gauvreau St., Quebec
Laliberté, P.E.	32, rue Fleurie, Quebec
Lauzon Brass and Aluminum Foundry	50 Carrier St., Lauzon
Mark Hot Foundries Ltd.	Hebert St., Montreal North, Leval
Miller's Brass Foundry, Reg'd.	791 Hertel St., Three Rivers
Mitchell, Robert, Co. Limited, The	350 Decarie Blvd., Ville St. Laurent
Montreal Bronze Limited	999 Delormier Ave., Montreal
National Foundry Reg'd.	1722 Champigny St., Montreal
Noranda Copper and Brass Limited	Sherbrooke and Durocher Sts., Montreal East
Regent Brass Foundry	7980-17th Ave., Ville St. Michel
Sicotte, Paul	71 Dubois St., Ste. Thérèse
Supreme Precision Castings Ltd.	6637 Jeanne-Mance St., Montreal
Union Screen Plate Company of Canada, Limited	72 Queen St., Lennoxville
Vandevoorde Foundry	2000 Kent St., Montreal
Verdun Brass & Aluminum Foundry Inc.	1427 Maisonneuve, Montreal
Victory Brass & Aluminum Foundry	5244 Casgrain St., Montreal
Ontario:	
Anaconda American Brass Limited	8th Street, New Toronto
Atkins & Hoyle Limited	69 Portland St., Toronto
Barnard Foundries, Ltd.	13 Dundas St. E., Brantford
Beare Brass Foundry	57 Grey St., Brantford
Bond Brass Limited	110 McArthur Ave., Eastview
Buffet & Lloyd	1203 Lawrence Ave. W., North Park P.O.
Craig Bronze Company	330 Horner Ave., Toronto
Coulter Copper & Brass Company, Limited	115 Sumach St., Toronto and Scarborough
Dominion Gas Meter Company, Limited, The	1-11 Garfield Ave., London
Elmira Aluminum Specialties	Elmira
Ferguson, Robt. J., & Sons	64 Booth St., Ottawa
Fisher and Son Foundry	366 Wilson St., Hamilton
Gasyle Precision Castings Ltd.	335 Bering, Toronto
Guelph Brass and Aluminum Co.	17 Division St., Guelph
Ingot Metal Co. Ltd.	12 Vansco Rd., Toronto

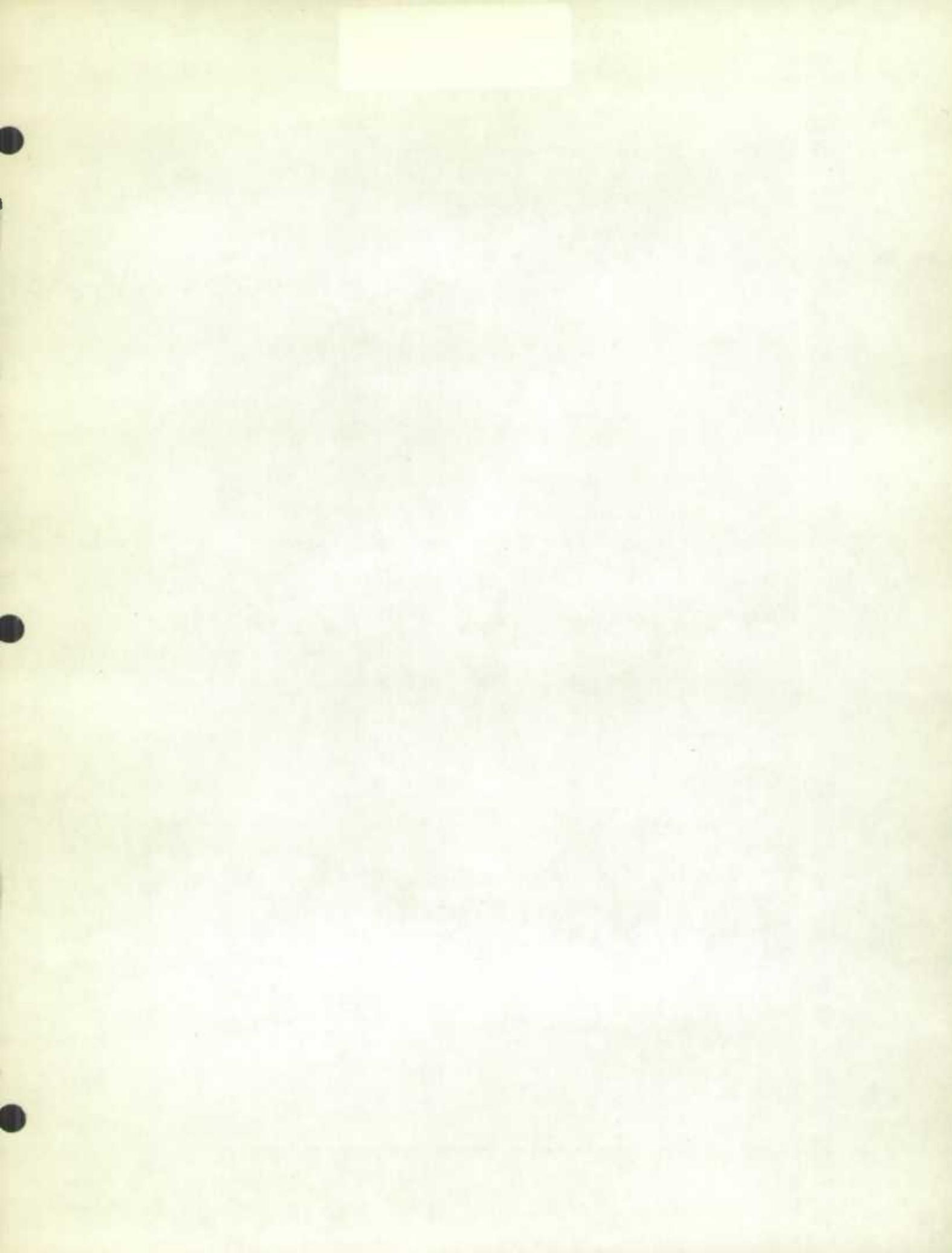
Directory of Firms Included in the Brass and Copper Products Industry in Canada, 1956 — Continued

Name of firm	Location of plant
(b) Firms engaged chiefly in operating brass and bronze foundries (Other than for valves, taps, etc.)—Concluded	
Ontario — Concluded:	
Industrial Fine Casting Ltd.	272 Geary Ave., Toronto
Kent-Norlantic Ltd.	389 Horner Ave., Toronto
Kitchener Brass & Aluminum Foundry	388 Wendell Ave., Kitchener
Klassen Bronze	New Hamburg
Lawrence, T.C., & Sons	17 Jarvis St., Galt
Long Branch Foundry, The	3 Rose Ave., Toronto
May Foundry Co.	2018 Buchanan St., Niagara Falls
McKay Smelters, Limited	20 Charlevoix St., Ottawa
National Brass & Aluminum Foundry	117 St. Patrick St., Toronto
Neptune Meters, Limited	Long Branch
Niagara Bronze	497 Buttrey St., Niagara Falls
Non-Ferrous Castings Company	65 Frederick St., Toronto
Quality Brass Foundry	29 Wabash Ave., Toronto
Queen City Brass Foundry	28 Dalhousie St., Toronto
Rahn Metals Limited	Regina St., North Bay
Robinson, J., & Son	2 Hinton Ave., Ottawa
Royal Brass & Aluminum Foundry	6 Widmer St., Toronto
St. Catharines Brass Works, Ltd.	16 Smith St., St. Catharines
St. Thomas Bronze Company, Limited	First St., St. Thomas
Sherratt, Brass Foundry Ltd.	6 Britain St., Toronto
Standard Brass & Aluminum Foundry	550 York Rd., Guelph
Standard Brass Foundry	561 Catharine St. N., Hamilton
Stoermer Bell & Brass Foundry	Kitchener
Fallman, A.H., Bronze Company Limited	Cavell Ave., Hamilton
Usarco Ltd.	363 Wellington St. N., Hamilton
Wagman, Z., & Son Ltd.	190 Edwin Ave., Toronto
Warren Alloy Canada Ltd.	Keil Dr., Chatham
Wilson Brass & Aluminum Foundries	21 Javis St., Toronto
Wilson & Cousins, Limited	240 Birmingham St., New Toronto
Windsor Brass Works, Limited	408 Hanna St. E., Windsor
Windsor Match Plate Co.	1125 Westcott Rd., Windsor
Manitoba:	
Bay Bronze Co., The	1520 Wall St., Winnipeg
Northwestern Brass, Limited	13 Bury St., Winnipeg
Western Canada Bronze Company	595 Clifton St., Winnipeg
Winnipeg Brass Limited	600 Clifton St., Winnipeg
Alberta:	
American Brass, Aluminum Foundry Ltd.	12530-123rd Street, Edmonton
Northwestern Brass, Limited	1609-24th Ave. E., Calgary
Paragon Bronze & Aluminum Products	511-3rd Ave. W., Calgary
British Columbia:	
A-1 Pattern Shop & Brass Foundry Ltd.	36 West 3rd Ave., Vancouver
Fraser Brass Foundry	9036 Holt Rd., New Westminster
Green, Wm., & Sons Brass Foundry	515 Pembroke St., Victoria
Hastings Brass Foundry Ltd.	236 Clark Drive, Vancouver
Hi-Way Foundry	1604 Island Highway, Victoria
Lansco Foundries Limited	1865 West Georgia St., Vancouver
McPhail, Wm., & Sons (Canada) Ltd.	251 East Second Ave., Vancouver
Northwestern Brass & Bronze Foundry	604 Clark Dr., Vancouver
North Shore Foundry Ltd.	234 Esplanade St., N. Vancouver
Pacific Bronze Co. Ltd.	244 Woodland Drive, Vancouver
Pioneer Foundry & Machine Works Ltd.	707-4th Ave. N., Port Alberni
Smith Bros. Foundry, Limited	632 Pembroke St., Victoria
Sumner Brass Foundry Ltd.	619 Bidwell St., Vancouver
Westcoast Metal Products	1205 Glen Drive, Vancouver

Directory of Firms Included in the Brass and Copper Products Industry in Canada, 1956 — Concluded

Name of firm	Location of plant
(c) Firms engaged chiefly in making fabricated articles (Not foundries)	
Quebec:	
Booth-Coulter Coppersmithing Co. Ltd.	997 Smith St., Montreal
Brass & Bronze Manufacturing Co.	1071 Panet St., Montreal
Canada Wire & Cable Co. Limited	Sherbrooke and Durocher, Sts., Montreal East
Canadian Lighting Protection	2540 Lyall St., Montreal
Cassidy and Maillard, Limited	1156-58 Papineau Ave., Montreal
Fayle Coppersmith Works Limited	910 Wellington St., Montreal
Guard-X Reg'd.	5875 Papineau Ave., Montreal
Industrial Spinning Co. Ltd.	3850 Ontario St. E., Montreal
Kidde, Walter, & Company of Canada Ltd.	5500 Royalmount Ave., Montreal
Ontario:	
Booth, W.E., Co. Ltd.	12 Mercer St., Toronto
Canadian Meter Company, Limited	Milton
Cello Products	Avenue Rd., Galt
Central Electric Wire Ltd.	18 Foster St., Perth
C-O-Two Fire Equipment of Canada Limited	91 East Don Roadway, Toronto
Dodd & Struthers	1721 Moy Ave., Windsor
Dominion Lightning Rod Company	63 Main St., Dundas
Fyr-Fyter Company of Canada, Ltd.	589 Cannon St. E., Hamilton
General Fireguard Corporation Limited, The	978 Luke Rd., Windsor
Granell, G.P., & Son	330 Geary Ave., Toronto
Guardian Manufacturing Ltd.	10 Brock St., Brockville
Johnston Copper & Brass Limited	11 New St., Toronto
Kurly Kate (Canada) Limited	49 Colborne St., Toronto
Lauder Brass Company Limited	186 Adelaide St. W., Toronto
Metal Textile Corporation of Canada, Ltd.	126 Catherine St. N., Hamilton
Millman, W.H., & Sons	243 College St., Toronto
Niagara Terrazzo Supplies Ltd.	316 Second Ave., Niagara Falls
Ottawa Brass Mfg. Co.	542 Wellington St., Ottawa
Phillips Lightning Rod Co. Ltd.	32 Osborne Ave., Toronto
Phillips Electrical Co. Ltd.	King St. Brockville
Pratt, Austin	125 Berkeley St., Toronto
Pyrene Manufacturing Co. of Canada, Limited	91 East Don Roadway, Toronto
Ratcliff's (Canada) Limited	Yonge Street., Richmond Hill
Riverdale Copper & Brass Works	160 Duchess St., Toronto
Roto Cast Ltd.	721 Eastern Ave., Toronto
S & S Metal Spinning Company	3298 Dundas St. W., Toronto
Tonner, Gordon	Oxford St., Richmond Hill
Toronto Coppersmithing Company Ltd.	80 Knox Ave., Toronto
United-Carr Fastener Company of Canada, Limited	Gage Ave. and Beach Road, Hamilton: and Oakville
Universal Lighting Rod Company	Hespeler
Wallaceburg-Singer Ltd.	Heinz St., Wallaceburg
Manitoba:	
Canadian Electric & Brass Ltd.	574½ Minto St., Winnipeg
Wawanese Mutual Insurance Co. (Commercial Department)	Wawanese
Alberta:	
Winter's Metal Spinning Works	510 — 6th Ave. W., Calgary
British Columbia:	
Ellett Copper & Brass Co. Ltd.	92 West 2nd Ave., Vancouver
Empire Metal Products Ltd.	P.O. Box 551, Vancouver





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