

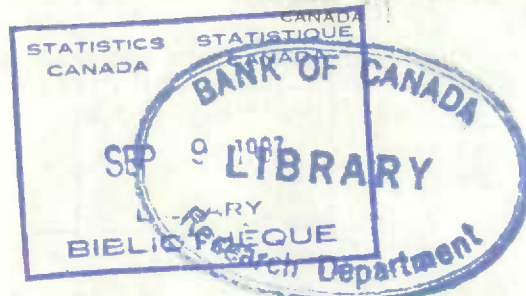
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JEWELLERY AND SILVERWARE MANUFACTURERS

1964

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PUBLICATIONS

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JEWELLERY AND SILVERWARE MANUFACTURERS

1964

In terms of the revised Standard Industrial Classification and the New Establishment Concept, this industry is defined as comprising those "Establishments primarily engaged in manufacturing articles of precious metals with or without precious stones, including articles plated with precious metals. This industry includes establishments primarily engaged in rolling precious metals or making precious metal alloys as well as those primarily engaged in lapidary work and cutting and polishing diamonds. Establishments primarily engaged in manufacturing costume jewellery are included".

For the purposes of this survey, the Jewellery and Silverware Manufacturers industry includes all plants in Canada which made the following classes of goods as their main products: (a) rings and other jewellery; (b) sterling silverware and silver-plated ware; and (c) dental supplies, gold leaf, gold and silver melted or rolled or otherwise prepared for the arts and industries; and (d) precious metals recovered from old materials, jewellers' sweepings and scrap. Wholesalers, retailers, or shops engaged only in repair work are not included.

The shipments by the industry proper of goods of own manufacture are shown in Table 13 wherein the detail has been somewhat abridged in order that the more important shipments of the main products of this industry by all industries may be presented in Table 14.

A list of the establishments classified to this industry in the 1964 survey will be found at the end of this report.

SYMBOLS

The following standard symbols are used in Dominion Bureau of Statistics publications:

- .. figures not available.
- ... figures not appropriate or not applicable.
- nil or zero.
- amount too small to be expressed.
- p preliminary figures.
- r revised figures.
- x confidential to meet secrecy requirements of the Statistics Act.

TABLE 1. Principal Statistics, 1961-64

Year and province	Estab-lish-ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec-tricity	Cost of materials and supplies	Value of shipments of goods of own manu-facture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1961													
Totals	225	3,331	6,744	10,687	379	29,647	55,677	26,000	126	531	4,911	17,516	28,639
1962													
Totals	232	3,449	7,138	11,567	409	35,223	63,259	28,322	139	558	4,852	18,106	30,173
1963													
Newfoundland	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—	—	—	—	—	—	—	—
New Brunswick	2	x	x	x	x	x	x	x	x	x	x	x	x
Quebec	92	1,125	2,360	3,415	80	7,483	15,267	7,794	49	206	1,539	5,122	8,249
Ontario	120	2,230	4,602	8,147	311	31,325	52,034	20,759	64	249	3,182	13,104	22,342
Manitoba	6	23	43	89	4	137	307	167	3	11	34	120	175
Saskatchewan	2	x	x	x	x	x	x	x	x	x	x	x	x
Alberta	2	x	x	x	x	x	x	x	x	x	x	x	x
British Columbia	18	99	201	386	6	428	1,202	786	12	57	142	552	822
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	242	3,493	7,238	12,097	401	39,443	68,983	29,617	132	538	4,916	18,975	31,714
1964													
Newfoundland	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	1	x	x	x	x	x	x	x	x	x	x	x	x
New Brunswick	2	x	x	x	x	x	x	x	x	x	x	x	x
Quebec	92	1,121	2,396	3,613	75	7,630	15,516	8,028	41	167	1,424	5,266	8,546
Ontario	130	2,456	5,151	9,068	342	32,421	55,742	23,512	63	279	3,335	14,337	24,637
Manitoba	6	24	46	93	3	136	320	183	3	12	34	119	191
Saskatchewan	2	x	x	x	x	x	x	x	x	x	x	x	x
Alberta	4	x	x	x	x	x	x	x	x	x	x	x	x
British Columbia	22	121	253	483	7	535	1,555	1,039	16	61	175	726	1,081
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	259	3,742	7,885	13,324	428	40,839	73,382	32,902	129	542	4,994	20,534	34,620

TABLE 2. Principal Statistics classified by Size Group based on Value of Shipments of Goods of Own Manufacture, 1963 and 1964

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'00	
1963													
Under \$10,000	27	7	13	16	1	70	175	106	27	65	9	23	105
\$ 10,000 to \$ 24,999	42	51	106	134	3	288	726	455	36	116	65	179	474
25,000 " 49,999	35	77	154	242	8	614	1,233	646	35	141	102	330	711
50,000 " 99,999	38	205	412	644	19	1,462	2,872	1,490	29	153	258	835	1,504
100,000 " 199,999	32	363	767	1,191	44	2,316	4,431	3,370	3	23	510	1,877	3,439
200,000 " 499,999	45	1,203	2,464	3,654	104	5,717	14,319	8,758	1	9	1,745	5,632	8,988
500,000 " 999,999	15	571	1,211	1,859	38	5,191	9,947	4,801	1	30	749	3,152	5,619
1,000,000 " 4,999,999	5	551	1,177	2,411	92	5,220	11,154	4,548	—	—	783	3,652	5,279
5,000,000 and over	3	465	933	1,947	91	18,565	24,124	5,443	—	—	661	3,037	5,599
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	34	258	(3)
Totals	242	3,493	7,238	12,097	401	39,443	68,983	29,617	132	538	4,916	18,975	31,714
1964													
Under \$10,000	25	15	27	31	1	63	148	98	18	49	20	45	98
\$ 10,000 to \$ 24,999	39	44	88	114	1	233	641	422	40	134	55	146	422
25,000 " 49,999	44	114	238	335	12	695	1,540	865	36	150	145	444	947
50,000 " 99,999	39	175	377	579	16	1,315	2,692	1,394	27	155	214	725	1,415
100,000 " 199,999	38	361	763	1,228	35	2,419	5,175	2,817	7	47	487	1,881	2,875
200,000 " 499,999	45	1,049	2,198	3,442	91	5,427	13,604	8,153	1	7	1,372	5,239	8,292
500,000 " 999,999	18	703	1,515	2,280	73	6,110	11,510	5,311	—	—	915	3,475	5,828
1,000,000 " 4,999,999	8	771	1,663	3,131	108	7,461	15,259	7,973	—	—	1,078	5,198	8,524
5,000,000 and over	3	510	1,016	2,184	92	17,117	22,812	5,870	—	—	708	3,383	6,221
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	259	3,742	7,885	13,324	428	40,839	73,382	32,902	129	542	4,994	20,534	34,620

TABLE 3. Principal Statistics classified by Size Group based on Manufacturing Value Added, 1963 and 1964

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1963													
Under \$10,000	46	30	61	76	2	274	510	240	46	119	38	102	249
\$ 10,000 to \$ 24,999	59	92	187	276	11	933	1,800	898	51	207	135	398	971
25,000 " 49,999	32	159	318	495	14	1,212	2,348	1,201	28	139	195	633	1,215
50,000 " 99,999	35	358	737	1,131	27	2,927	5,299	2,462	5	33	491	1,732	2,515
100,000 " 199,999	33	626	1,274	2,169	80	5,063	11,133	4,702	1	9	1,020	3,512	5,400
200,000 " 499,999	27	1,122	2,371	3,401	88	4,830	12,753	8,017	1	30	1,432	5,160	8,379
500,000 " 999,999	5	294	599	980	41	6,604	9,566	3,051	—	—	509	2,344	3,751
1,000,000 " 4,999,999	5	812	1,689	3,568	137	17,600	25,572	9,046	—	—	1,062	4,835	9,236
5,000,000 and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	34	258	(3)
Totals	242	3,493	7,238	12,097	401	39,443	68,983	29,617	132	538	4,916	18,975	31,714
1964													
Under \$10,000	50	29	55	67	2	270	554	294	45	133	38	91	294
\$ 10,000 to \$ 24,999	59	138	282	394	12	982	1,981	1,030	49	208	171	506	1,111
25,000 " 49,999	45	204	445	701	18	1,813	3,485	1,701	29	170	262	943	1,721
50,000 " 99,999	27	264	536	861	24	2,451	4,383	1,993	5	24	353	1,313	2,226
100,000 " 199,999	38	591	1,252	2,043	52	5,313	10,454	5,144	1	7	631	3,398	5,255
200,000 " 499,999	28	1,190	2,531	3,813	118	5,002	13,463	8,337	—	—	1,500	5,517	8,709
500,000 " 999,999	7	396	847	1,409	47	7,792	12,329	4,693	—	—	614	3,045	5,288
1,000,000 " 4,999,999	5	930	1,935	4,035	156	17,216	26,733	9,711	—	—	1,225	5,722	10,471
5,000,000 and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	259	3,742	7,885	13,324	428	40,839	73,382	32,902	129	542	4,994	20,534	34,620

TABLE 4. Principal Statistics classified by Size Group based on Total Value Added, 1963 and 1964

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1963													
Under \$10,000	45	26	53	64	2	251	485	232	47	121	31	78	230
\$ 10,000 to \$ 24,999	56	84	169	243	10	904	1,717	842	50	205	123	343	864
25,000 " 49,999	36	171	345	539	15	1,264	2,457	1,266	28	139	214	711	1,341
50,000 " 99,999	34	343	700	1,085	24	2,889	5,169	2,378	5	33	470	1,656	2,415
100,000 " 199,999	32	820	1,270	2,140	80	4,533	10,383	4,542	1	9	1,001	3,395	4,628
200,000 " 499,999	27	1,081	2,264	3,257	90	4,757	12,445	7,804	1	30	1,387	4,916	8,000
500,000 " 999,999	6	261	551	932	21	6,769	9,580	2,833	—	—	384	1,896	3,657
1,000,000 " 4,999,999	6	907	1,886	3,836	159	18,074	26,747	9,721	—	—	1,272	5,719	10,582
5,000,000 and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	34	258	(3)
Totals	242	3,493	7,238	12,097	401	39,443	68,983	29,617	132	538	4,916	18,975	31,714
1964													
Under \$10,000	50	29	55	67	2	270	554	294	45	133	38	91	294
\$ 10,000 to \$ 24,999	56	129	264	361	11	931	1,878	977	48	202	158	450	1,012
25,000 " 49,999	46	197	431	687	18	1,775	3,407	1,658	30	176	254	930	1,718
50,000 " 99,999	27	264	538	826	22	1,774	3,843	1,933	5	24	342	1,201	1,956
100,000 " 199,999	38	587	1,237	2,048	52	5,214	10,274	5,051	1	7	823	3,367	5,130
200,000 " 499,999	29	1,151	2,446	3,696	118	5,663	14,049	8,307	—	—	1,466	5,384	8,594
500,000 " 999,999	7	357	778	1,310	29	7,436	11,508	4,140	—	—	492	2,510	4,510
1,000,000 " 4,999,999	6	1,028	2,135	4,330	177	17,775	28,069	10,542	—	—	1,421	8,602	11,406
5,000,000 and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	259	3,742	7,885	13,324	428	40,839	73,382	32,902	129	542	4,994	20,534	34,620

TABLE 5. Principal Statistics classified by Size Group based on Total Employed, 1963 and 1964

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1963													
Under 5 employed	101	99	199	291	12	1,285	2,406	1,196	96	353	133	409	1,249
5 - 14 employed	57	336	381	1,105	26	3,434	5,965	2,574	31	123	457	1,660	3,204
15 - 49 "	54	957	1,986	3,307	98	6,618	14,070	8,889	4	32	1,337	5,082	9,029
50 - 99 "	23	1,083	2,289	3,417	113	9,947	18,680	7,432	1	30	1,495	5,462	7,857
100-199 "	7	1,018	2,082	3,976	152	18,179	27,862	9,527	—	—	1,460	6,103	10,379
200-499 "													
500 employed and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	34	258	(3)
Totals	242	3,493	7,238	12,097	401	39,443	68,983	29,617	132	538	4,916	18,975	31,714
1964													
Under 5 employed	105	111	231	331	14	1,537	2,933	1,449	99	390	143	442	1,492
5 - 14 employed	66	370	779	1,239	27	3,603	6,616	3,070	29	145	486	1,809	3,139
15 - 49 "	63	1,186	2,489	4,078	121	8,183	17,844	9,719	1	7	1,598	6,311	10,096
50 - 99 "	16	947	2,033	3,099	85	9,451	16,748	7,244	—	—	1,225	4,819	7,612
100-199 "	7	1,128	2,353	4,577	180	18,065	29,242	11,420	—	—	1,542	7,153	12,281
200-499 "													
500 employed and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	259	3,742	7,885	13,324	428	40,839	73,382	32,902	129	542	4,994	20,534	34,620

TABLE 6. Principal Statistics classified by Type of Organization, 1963 and 1964

Type of organization	Establishments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and electricity	Cost of materials and supplies	Value of shipments of goods of own manufacture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1963													
Individual ownerships	75	170	344	540	10	1,500	2,959	1,513	72	332	220	686	1,521
Partnerships	28	47	91	126	6	604	1,258	691	60	206	82	203	690
Incorporated companies	139	3,276	6,803	11,431	384	37,339	64,766	27,413	...	...	4,580	17,827	29,506
Co-operatives .....	-	-	-	-	-	-	-	-	...	...	-	-	-
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	34	258	(3)
Totals	242	3,493	7,238	12,097	401	39,443	68,983	29,617	132	538	4,916	18,975	31,714
1964													
Individual ownerships	77	120	256	363	8	1,246	2,399	1,208	72	308	139	408	1,228
Partnerships	31	68	140	203	9	745	1,555	829	57	234	83	260	839
Incorporated companies	151	3,554	7,489	12,758	411	38,848	69,428	30,865	...	...	4,772	19,866	32,553
Co-operatives .....	-	-	-	-	-	-	-	-	...	...	-	-	-
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	259	3,742	7,885	13,324	428	40,839	73,382	32,382	129	542	4,994	20,534	34,620

TABLE 7. Calculation of Output, Input and Value Added, 1963 and 1964

	Manufacturing activity		Non-manufacturing activities		Total activity	
	1963	1964	1963	1964	1963	1964
	\$'000					
Output						
1. Shipments and other revenue	68,953	73,382	6,432	6,783	75,415	80,165
Inventories—Goods of own manufacture:						
Add closing—Goods in process	2,633	2,862	...	...	2,633	2,862
Finished goods	7,888	7,616	...	...	7,888	7,616
Deduct opening—Goods in process	2,549	2,679	...	...	2,549	2,679
Finished goods	7,494	7,012	...	...	7,494	7,012
2. Net inventory change	478	787	...	...	478	787
3. Gross output (1 + 2)	69,461	74,169	6,432	6,783	75,893	80,952
Input						
4. Purchases of goods not of own manufacture .....	...	...	4,008	4,520	4,008	4,920
Inventories—Goods not of own manufacture:						
Add opening .....	...	...	1,063	1,035	1,063	1,035
Deduct closing .....	...	...	988	1,179	988	1,179
5. Cost of goods sold (not of own manufacture) .....	...	...	4,083	4,776	4,083	4,776
6. Materials, supplies, etc.	39,443	40,839	253	289	39,696	41,128
7. Fuel and electricity	401	428	...	...	401	428
8. Gross input (5 + 6 + 7)	39,844	41,267	4,336	5,065	44,180	46,332
Value added (3 - 8)	26,617	32,902	2,096	1,718	31,714	34,620

TABLE 8. Employment and Payroll, 1963 and 1964

Territory and province	Employees										Salaries and wages				
	Production and related workers				Administrative and office		Sales and distribution		Total		Production and related workers		Administrative and office	Sales and distribution	Total
	Manufacturing		Other												
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Manufacturing	Other			
	number										\$'000				
1963															
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick	x	x	-	-	x	x	-	-	x	x	x	-	x	-	x
Quebec	711	414	17	93	131	111	57	5	916	623	3,415	62	1,280	365	5,122
Ontario	1,391	839	4	110	331	285	150	72	1,876	1,306	8,147	72	3,437	1,449	13,104
Manitoba	18	5	1	1	6	3	-	-	25	9	89	2	29	-	120
Saskatchewan	x	x	-	-	x	x	-	-	x	x	x	-	x	-	x
Alberta	x	x	-	-	x	x	-	-	x	x	x	-	x	-	x
British Columbia	82	17	-	2	17	20	4	-	103	39	386	3	155	9	552
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	2,217	1,276	22	206	487	420	211	77	2,937	1,979	12,097	138	4,918	1,822	18,975
1964															
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	-	-	-	-	x	-	-	-	x	-	-	-	x	-	x
New Brunswick	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec	709	412	1	33	116	102	45	6	871	553	3,613	45	1,243	365	5,266
Ontario	1,521	935	-	3	349	309	141	77	2,011	1,324	9,068	6	3,717	1,546	14,337
Manitoba	18	6	-	-	6	4	-	-	24	10	93	-	26	-	119
Saskatchewan	x	x	-	-	x	x	-	-	x	x	x	-	x	-	x
Alberta	x	x	-	-	x	x	-	-	x	x	x	-	x	-	x
British Columbia	98	23	1	-	18	17	8	10	125	50	483	1	159	83	726
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	2,363	1,379	2	36	493	434	194	93	3,052	1,942	13,324	52	5,165	1,994	20,534

TABLE 9. Production and Related Workers, - Manufacturing Activity, 1963 and 1964

Month	1963		1964	
	Male	Female	Male	Female
	number			
Establishments reporting monthly detail (large establishments only):				
January	1,944	1,227	2,053	1,270
February	1,598	1,236	2,081	1,279
March	1,912	1,225	2,083	1,248
April	1,915	1,173	2,082	1,225
May	1,936	1,152	2,089	1,228
June	1,955	1,137	2,040	1,268
July	1,897	1,137	2,019	1,210
August	1,932	1,225	2,100	1,344
September	1,285	1,328	2,112	1,409
October	2,023	1,377	2,089	1,421
November	2,004	1,297	2,119	1,397
December	1,968	1,208	2,079	1,318
Averages	1,993	1,216	2,077	1,306
Establishments reporting annual averages (small establishments only)	224	58	286	73
Average for all establishments	2,217	1,276	2,363	1,379

TABLE 10. Inventories, 1964

Province	Manufacturing				Non-manufacturing	Total inventories
	Materials, supplies, etc.	Goods in process	Finished goods of own manufacture	Total	Products or materials purchased for resale	
book value \$'000						
Opening:						
Newfoundland	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—
New Brunswick	x	—	x	x	—	x
Quebec	2,643	186	2,413	5,242	262	5,504
Ontario	6,747	2,425	4,382	13,553	763	14,316
Manitoba	56	6	7	70	—	70
Saskatchewan	x	—	x	x	—	x
Alberta	x	—	x	x	—	x
British Columbia	190	62	189	441	10	451
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	9,658	2,679	7,012	19,349	1,035	20,384
Closing:						
Newfoundland	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—
New Brunswick	x	—	x	x	—	x
Quebec	2,710	224	2,590	5,524	251	5,775
Ontario	7,290	2,565	4,774	14,629	917	15,546
Manitoba	51	7	6	65	—	65
Saskatchewan	x	—	x	x	—	x
Alberta	x	—	x	x	—	x
British Columbia	203	66	212	480	11	491
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	10,288	2,862	7,616	20,766	1,179	21,945

TABLE 11. Purchased Fuel and Electricity Used in Manufacturing Activity, 1963 and 1964

Description	1963		1964	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
1. Large establishments reporting commodity detail:				
Bituminous coal:				
(a) From Canadian mines	ton	1,644	22	1,429
(b) Imported	"	1,284	18	156
Sub-bituminous coal (from Alberta mines only)	"	—	—	—
Anthracite coal	"	8	—	—
Lignite coal	"	140	3	220
Coke	"	—	—	—
Gasoline (including gasoline used in cars and trucks)	Imp. gal.	56,804	24	74,621
Fuel oil including kerosene or coal oil	"	434,184	55	431,606
Wood	cord	3	—	—
Gas:				
(a) Liquefied petroleum gases	Imp. gal.	27,380	8	20,303
(b) Other manufactured gas	M cu. ft.	—	—	—
(c) Natural gas	"	56,718	54	79,766
Other fuel .....	...	...	...	...
Electricity purchased	kwh.	13,830,829	188	14,839,505
Steam purchased .....	...	...	...	...
2. Small establishments not reporting commodity detail:				
Estimate for fuel and electricity .....	...	29	...	31
3. All establishments:				
Total fuel and electricity used .....	...	401	...	428

TABLE 12. Materials and Supplies — Manufacturing Activity, 1963 and 1964

Description	Cost	
	1963	1964
	\$'000	
1. Materials used:		
Precious metals:		
Gold:		
Fine:		
New	6,061	7,105
From old material	136	124
Gold alloys (18k, 12k, etc.)	1,928	2,341
Iridium	35	29
Palladium	965	1,045
Platinum	2,564	969
Rhodium	173	184
Silver:		
Fine:		
Anodes	1,563	2,020
Other	3,125	3,248
Sterling	2,758	2,325
Other silver alloys	94	77
Old gold, waste and scrap for melting and refining	1,807	2,120
Gold-filled wire and other gold-filled stock	172	336
Base metals and alloys:		
Aluminum	9	12
Antimony metal	1	1
Brass, including blanks for plating	251	233
Britannia metal, including blanks for plating	64	25
Cadmium metal	12	11
Copper, including blanks for plating	207	251
Lead	32	41
Nickel	14	180
Nickel-silver, including blanks for plating	758	397
Tin	152	235
Other non-ferrous metals	128	135
Other materials:		
Cutlery steel	120	154
Diamonds (for rings, etc.)	2,977	3,643
Other precious and semi-precious stones	839	983
Glass linings and blanks	122	92
Rouge and other polishes	88	102
Stainless steel	718	640
Synthetic resins and plastics	19	30
Pearl essence	2	22
Beads for artificial or simulated pearls	541	807
Jeweller's findings	1,901	1,900
All other materials and components used ¹	7,515	7,224
2. Containers and other packaging materials and supplies used	608	613
3. Operating, maintenance and repair supplies used (excluding fuel)	585	631
4. Amount paid out to others for work done on materials owned by establishments	398	554
Totals	39,443	40,839

¹ No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. These estimated costs were \$2,160,097 in 1963 and \$2,498,719 in 1964.

TABLE 13. Shipments of Goods of Own Manufacture, 1963 and 1964

Description	Value	
	1963	1964
	\$'000	
1. Products:		
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	1,198	1,371
Silver	4,288	4,589
Sterling silver and other silver alloys	6,250	4,426
Other precious metals including alloys		
Gold leaf, gold filled wire and other gold filled stock	1,497	1,632
Watch bracelets	29,192	32,039
Jewellery		
Pearls cultured		473
Pearls artificial or simulated	1,078	611
Church goods (chalices etc.)	224	350
Emblems badges and medals	1,383	1,465
Hollow-ware, silver-plated on Britannia metal		
Hollow-ware, silver-plated on nickel-silver	492	497
Hollow-ware, silver-plated on brass and copper	869	905
Hollow-ware, silver-plated on lead alloy		
Hollow-ware, flatware and cutlery, sterling silver	2,406	2,081
Flatware and cutlery, silver-plated		
Flatware and cutlery, other, including stainless steel, other plated and other metal flatware, not plated		
Jeweller's findings	516	474
Trophies	1,459	1,739
All other products	16,812 ^r	19,818
2. Amount received in payment for work done on materials and products owned by others	1,321	931
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above	(1)	(71)
Total adjusted value of shipments and work done	68,983	73,382

¹ Included in "Other precious metals including alloys".

² Included in "All other products".

TABLE 14. Shipments of Selected Goods of Own Manufacture - All Industries, 1955-64
(Includes shipments from other industries which manufacture, as a secondary activity, the commodities listed)

A. Shipments of Jewellery¹

Year	Value	Year	Value
	\$'000		\$'000
1955	19,466	1960	27,453
1956	20,780	1961	27,520
1957	21,205	1962	29,142
1958	23,159	1963	29,898
1959	24,527	1964	33,845

B. Shipments of Silverware

Year	Hollow-ware, electroplated			Flatware, and cutlery, electro- plated	Sterling silver hollow-ware flatware and cutlery	Sterling silver toilet-ware and dresserware	Flatware, and cutlery, stainless steel
	On Britannia metal	On nickel- silver	On other metal				
	\$'000						
1955	82	14	1,635	6,156	2,454	219	2
1956	63	70	1,238	5,878	2,084	x	2
1957	79	85	1,219	6,736	2,165	x	2
1958	47	97	1,272	4,762	1,977	x	2
1959	44	265	1,022	3,516	2,432	x	2
1960	28	289	1,022	3,678	2,339 ²	x	2
1961	x	174	1,424	3,701	2,242	x	2
1962	x	222	1,380	3,638	2,196	x	2,539
1963	x	492	914	3,227	2,406	x	2,348
1964	x	497	951	3,660	2,081	x	3,870

¹ Precious, semi-precious and other.

² Not available.

List of Establishments classified to This Industry, 1964

(Does not include establishments classified to other industries, which as a secondary activity, manufacture products typical of this industry)

Name	Location
(a) Refined Precious Metals Chiefly - Secondary Refiners	
Quebec:	
Canadian Refining Co. Ltd.	1426 Clark St., Montreal
Ontario:	
Englehard Industries of Canada Limited	512 King St. E., Toronto 2
Handy & Harman of Canada Ltd.	141 John St., Toronto 2B
Imperial Smelting & Refining Co. Ltd.	34 Beverley St., Toronto 2B
Johnson, Matthey & Mollory Limited	110 Industry St., Toronto 15
Williams Gold of Canada Ltd.	30 Courtwright St., Fort Erie
(b) Silver-plated Ware Chiefly	
Quebec:	
Birks, Henry & Sons Ltd.	1240 Phillips Square, Montreal
Wallace Silversmiths (Canada) Ltd.	Cookshire
Ontario:	
Benedict-Proctor Mfg. Co. Ltd.	74 Ontario St., Trenton
Canadian Silversmiths Ltd.	82-84 Chestnut St., Toronto 2
International Silver Co. of Canada Ltd.	1847 Rogers Rd., Perth
Morton-Parker Limited	Dufferin Ave., Trenton
Oneida Ltd.	1705 Falls Ave., Niagara Falls
(c) Jewellery Chiefly	
Nova Scotia:	
Tully Brothers	469 Barrington St., Halifax
New Brunswick:	
Fundry Gem Studio	Scotts Bay
Witewaall, Barth & Lucie	48 Arnold Ave., Sussex
Quebec:	
Abolene Company Ltd., The	286 St. Paul St. West, Montreal
Academy Enterprises Reg'd.	1276 St. André, Montreal
Achim, J. Henri Inc.	205, rue St-Paul-O., Montreal 1
A.L.S. Inc.	1255 University St., Montreal
American Novelty & Castings Co. Ltd.	987 Côté St., Montreal
Amstel Bros.	4372 St. Laurent Blvd., Montreal 18
Ang Limitée	2937, avenue Lacombe, Montréal
Astor Jewels Inc.	366 Mayor St., Montreal
Balfour, L.G. Co. of Canada Ltd.	1030 Penneton St., Sherbrooke
Beaudoin Spinning Enr.	3870 Jarry E., Ville St-Michel
Beaugrand, Gilles Inc.	846, ave. de l'Épée, Outremont
Bel Art Inc.	9105 Notre-Dame St. E., Montreal 5
Bijouterie Centrale Inc.	3250, rue St-Zotique, Montréal
Bijouterie Marc Enrg.	3713 - 7ième, Rosemont, Montreal
Bijouterie Style Limitée	620 est, rue Jarry, Montréal
Bourassa, J.A. Enrg.	1290 St-Denis St., Montreal 18
Breadner Company Limited	55 Breadner St., Hull
Brochard, A.	365, rue St-Thomas, St-Lambert
Bureau, Roger Ltée	8685, rue Casgrain, Montréal
Canadian Gold Craft Co.	1255 University St., Montreal
Carrier, P.E. Co. Ltée	2012 est, rue Mont-Royal, Montréal 34
Colombia Jewellery Co.	400 ouest, rue Ontario, Montréal
Continental Jewellery Co.	55 Mount Royal Ave. W., Montreal
Cor-Nel Products	2050 Bleury St., Montreal
Costanzo, Hector Enrg.	1030 St. Alexander St., Montreal
Créations Dany	6749, rue Marquette, Montreal
Créations Darnel Enrg.	8868A Lajeunesse Blvd., Montreal
Delrue, Georges	2100, rue Crescent, Montréal
Dexter Mfg. Co. of Canada	160 Richelleu Rd., St-Jean
Diamond Industries of Montreal Ltd.	1449 St. Alexandra St., Montreal
Dominion Tool & Metal Products Ltd.	929 Perreault Lane, Montreal 18
Doucet, Victor	10527, ave. Pelletier, Montréal-N.
Enco Manufacturing Co. Ltd., The	48 St. Peter St., Montreal
Evenchick, M. Ltd.	180 Montcalm St., Hull
Findelstein A. Jewellery Ltd.	1410 Stanley St., Montreal 2
Fine Jewellery Mfg. Co.	1255 Phillips Square, Montreal
Gehrg & Schlupe Reg'd.	1184 Mackay St., Montreal 25
Gendon Mfg. Jewellers Inc.	1101 St. Alexander St., Montreal
Gold Arts Jewellery Co. Reg'd.	1504 Sherbrooke St. W., Montreal
Gold and Platinum Craft	1255 University St., Montreal 2
Green Bros. Inc.	1010 Ste. Catherine St. W., Montreal
Grenier, Marcel Enr.	1010 Ste. Catherine St. E., Montreal
Guyot, Arthur & Fils Ltée	5344-13ième Ave., Rosemont, Montreal
Hernandez Inc.	619, rue Latourrelle, Québec
Imperial Jewellery Manufacturing Company	913 Jeanne Mance St., Montreal
International Diamond Ring Ltd.	6505-3ième ave., Rosemont, Montréal
Jewel Craft Inc.	Room 1-1871 St. Louis St., Ville St. Laurent
Joallerie Dresse Ltd.	10465 Vianney St., Montreal
Keyes Jewellers Mfg. Ltd.	2550 Bates Rd., Montreal
Lamond, C. & Fils Limitée	1065 Bleury St., Montreal
Lamontagne & Fortin, Enr.	64-2ième rue - est, Orsainville
Langlois, Paul A.	466, rue de la Couronne, Québec
Larin, Yvon	2122 est, rue Bélanger, Montréal
La Salle Bijouterie, Inc.	8482, rue St-Hubert, Montréal
Laurentian Jewellers	1449 St. Alexander St., Montreal
Lemaitre, Paul Limitée	451, rue St-Sulpice, Montréal 1
Leno Jewellery Co.	351 Place Royale, Montreal
Lindover, H. Mfg. Jeweller	1121 Ste. Catherine St. W., Montreal
Lucas, Gabriel Limitée	1476 ouest, rue Sherbrooke, Montréal
Marion, Aly Enr.	360 Craig St. W., Montreal
Metalliflex Ltd.	9015, rue Meilleur, Montréal
Nemo-Brier Limited	105 Montcalm St., Hull
New York Rhinestone Novelty Co.	1485 Bleury St., Montreal

List of Establishments classified to This Industry, 1964 - Continued

Name	Location
Quebec - Concluded:	
Paris, Joaillerie Enr.	1294, rue Maguire, Sellery
Pelletier, E. & Fils Enr.	10, Place Crémazie, Montréal
Perrier, Gaston	782, ave. du Parc, St-Vincent-de-Paul
Picard, J.E. Inc.	335, blvd. Charest-est, Québec 2
Primavesi & Kaufmann	1454 Mountain St., Montreal 25
Regency Jewellery Mfg. Co.	179 Craig St. W., Montreal
Ross Bros. Inc.	1235 Guy St., Montreal 25
Rowi Ltd.	1276 St. Urban St., Montreal 18
Rubros Co.	1410 Stanley St., Montreal
Scepter Jewellery Company	408 St. James St. W., Montreal
Schwartz, Georges	2153 Crescent St., Montreal
Shechtman, G.A. & Sons Ltd.	416 Ontario St. W., Montreal
Sherman, G. & Co. Ltd.	880 Champagney Ave., Montreal 8
Sidney Skelton Ltd.	1231 Ste. Catherine St. West., Montreal
Skolar, J. Jewellery Mfg. Co.	1408 Bleury St., Montreal 2
Smith Manufacturing Co.	404 Notre-Dame St. W., Montreal
Spark Jewellers Mfg.	366 Mayor Ave., Montreal
Swisor Inc.	2562, chemin St-Louis, Québec 10
Triad Creations Limited	485 Toupin St., Drummondville
Trico Ring Mfg. Inc.	1030 St. Alexander, Montreal
Tulip Creations Mfg. Co. Ltd.	3400 Metropolitan Blvd. E., Ville St-Michel
Unique Jewellery Mfg. Co.	486 Ste. Catherine St. W., Montreal 2
Variety Ring Co.	5327 Notre-Dame St. W., Montreal 30
Venus Jewellery Mfg. Co.	77 Vitre St. W., Montreal
Zircon & Rubby Reg'd.	408 St. James St. W., Montreal 1
Ontario:	
A. & A. Jewellers Ltd.	21 Dundas Square, Toronto 1
Accurate Jewellery	9 Richmond St. E., Toronto 1
Adams Jewellery Mfg. Co.	5 Commercial St., Toronto
Alexandria Personal & Commercial	Alexandria
Amell, Robert & Co. Limited	145 Adelaide St. W., Toronto 1
Ampeco Limited	2139 Lawrence Ave. E., Scarborough
Arman Trophy Manufacturing Co. Ltd.	41 Peter St., Toronto 2B
Artistic Jewellery Co. Ltd.	469 King St. W., Toronto 2B
Attractive Jewellery Co. Ltd.	39 Wellington St. E., Toronto 1
Austin, Carl & Co. Ltd.	Box 190, Bobcaygeon
Avon Jewellery Limited	295 Dundas St. E., Belleville
Baker, T.H. Limited	1023 Princess Ave., London
Bari Bros. Jewellers	236 Adelaide St. W., Toronto 1
Basset's Jewellery Mfg. Co.	10 Duke St., Toronto 2
Best Jewellers Mfg.	9 Richmond St. E., Toronto
Bijou Jewellery Mfg.	500 Deloraine Ave., Toronto
Bond-Boyd & Company Limited	52 Scarsdale Rd., Don Mills
Boyd, Douglas	66 Centre St. W., Richmond Hill
Bristol Jewellery Limited	214 Dundas St., London
Bruce, F.V. Ltd.	9 Richard St. E., Toronto
Burke & Wallace Ltd.	234 Belfield Rd., Rexdale
Burkhardt Jewellers Limited	3 Mutual St., Toronto
Cadman Mfg. Co. Ltd.	No. 3 Highway, Courtland
Canada Diamond Mount Co.	14 Temperance St., Toronto 1
Canada Fine Chains Ltd.	240 Adelaide St. W., Toronto
Canadian Pearl Co.	16 Steven St., Hamilton
Canadian Trophies Ltd.	21 Ossington Ave., Toronto 3B
Century Novelty Co. Ltd.	144 Front St. W., Toronto 1
Charles Jewellery Co. (Div. Castwell Co. Ltd.)	164-170 Spadina Ave., Toronto 2B
Chenet Jewellery of Canada	1083 Main St., Port Erie
Clark, A.E. Co.	1294 Windemere Rd., Windsor
Classic Trophies Limited	64 Shaft Rd., Rexdale
Colonial Jewellery Limited	215 Spadina Ave., Toronto 2B
Coro (Canada) Limited	186 Bartley Dr., Toronto 16
Corona Jewellery Co. Ltd.	21 Dundas Sq. Rm. 508, Toronto 1
Craft Jewellery Products Ltd.	1309 Dundas St. W., Toronto 3
Crawford Castings	88 Richmond St. W., Toronto 1
D'Orrand Jewellers Ltd.	205 Richmond St. W., Toronto 1
Dafri Jewellery Limited	107 Richmond St. E., Toronto 1
Davis, A.F. Sales Ltd.	1066 Kipling Ave. N., Rexdale
Ekblad, Ronald Mfg. Co.	22 Cranfield Rd., Toronto 16
Electric Chain Co. of Canada Ltd., The	86 Bathurst St., Toronto 2B
Elliott-Bishop Co. Ltd.	71 Lombard St., Toronto 1
Empire Silversmiths Ltd.	16 Ripley Ave., Toronto 3
Eros Jewellery Mfg. Co.	291 King St. W., Toronto 2B
Excellent Jewellery Co. Ltd.	600 Bay St., Toronto
Excelsior Jewellery Manufacturing Company Ltd.	129 Adelaide St. W., Toronto 1
Fashion Jewellery Company Ltd.	111 Queen St. E., Toronto
Fine Bracelet Co.	200 Bedford Rd., Toronto 5
Forstner (Canada) Ltd.	62 Railside Rd., Don Mills
Forth, H. & Co. Limited	284A Yonge St., Toronto 1
Fremes, S. & Co. Limited	317 Adelaide St. W., Toronto
French Jewellery Co. of Canada Ltd.	347 Sorauren Ave., Toronto 3
Fussell, Andrew	10 Asquith Ave., Toronto 5
Gemstones Jewellery	346 Queen St., Ottawa 4
Goldcast Jewellery	77 Victoria St., Toronto
Gorel Chain Co. Limited	68 Broadview Ave., Toronto
Goz Lan Brothers Ltd.	21 Dundas Square, Toronto
Gross, S. & Son Diamonds Ltd.	111 Richmond St. W., Toronto
Gustav, H. John	92 Beverley St., Toronto
Hall Engravers	102 Adelaide St. E., Toronto
Har-Lo Band Repair Ltd.	260 Richmond St. W., Toronto 1
Holm E.	459 Martha St., Burlington
Houghton's Silverware & Plating Ltd.	557 Mount Pleasant Ave., Toronto
Ideal Jewelfcraft	108 Wellington St. West, Toronto 1
Jasse, B. & Co.	201-111 Queen St. E., Toronto
Jewel Studio	685 Yonge St., Toronto
Jewellers Workshop	308 Adelaide St. W., Toronto 2B
John Gustav H.	92 Beverley St., Toronto

List of Establishments classified to This Industry, 1964 -- Concluded

Name	Location
(c) Jewellery Chiefly -- Concluded	
Ontario -- Concluded:	
Kalupe Jewellery	19 Pretoria St., Toronto 6
Karel Craft Jewellery Mfg. Co.	4338 Kingston Rd., West Hill
Kay & Thornley Co.	2 Temperance St., Toronto 1
Kilpatrick, C., Mfg. Co. Limited	360 Park St. W., Windsor
Kochuta, Peter Jewellers	9 Richmond St. E., Toronto
Lackie Manufacturing Company Ltd.	102-108 Lombard St., Toronto 1
Laugher & Patton Limited	114 Jarvis St., Toronto 1
Leek, Jensen & Feller Ltd.	79 Queen St. E., Toronto 1
Lees, Hamilton Ltd.	78 Catherine St. N., Hamilton
Lepp Jewellery Ltd.	53 Fraser Ave., Toronto 1
Libman & Company Ltd.	21 Dundas St., Toronto 1
Lister, Harry	2 Temperance St., Toronto 1
Marvel Jewellery Ltd.	6 Trippet-Rd., Downsview
Mayer Jeweller & Setter	9 Richmond St. E., Toronto
Maytime Jewellers Ltd.	229 Yonge St., Toronto 1
McVeen, Gordon	685 Yonge St., Toronto
Melray Mfg. Jewellers Ltd.	37 Mary St., Hamilton
Mitschele Jewellery Ltd.	47 Wellington St. E., Toronto 1
Model Jewellery Mfg. Co. Ltd.	260 Richmond St. W., Toronto 1
Nantals & Hill Ltd.	152 Pitt St. W., Windsor
Nielsen & Son	11A Jarvis St., Toronto 1
Nu-Line Jewellery Mfg.	18 Elm St., Toronto
Operation Recovery	Trenton
Orion Jewellery Mfg. Co.	Dalton Rd., Sutton
P & H Jewellery & Setter	9 Richmond St. E., Toronto
Peerless Jewellery Manufacturers Ltd.	88 Richmond St. W., Toronto 1
Piffard, R. & Sons	51 Wellington St. W., Toronto
Platinum Art Company	21 Dundas Square, Toronto
Porcupine Rehabilitation Enterprise Inc.	221-224 Pine St. S., Timmins
Pre-met Manufacturers Ltd.	195 Yonge St., Toronto 1
Quality Jewellery Manufacturing Co.	11 Duncan St., Toronto 1
Roberts, L.	10 Temperance St., Toronto 1
Rotary Club of Fairbank, The	156 Bentworth Ave., Toronto
S.D. Jewellery	426 College St., Toronto
Select Jewellery Mfg. Co.	247 Hastings Ave., Toronto
Smith, Len Engravers	241 Victoria St., Toronto
St. John's Trophy	17 St. John's Rd., Toronto
Strath-Craft, Ltd.	504 Riverside Drive, London
Toronto Mfg. Jewellers	229 Yonge St., Toronto
Toronto Mfg. Co. of Canada Limited	1922 Wyandotte St. E., Windsor
Tutor, Fred M. Mfg.	42 James St. N., Hamilton
Udass Mfg. (Canada) Ltd.	144 Rivalda Rd., Weston
Universal Jewellery Mfg. Co.	284 Yonge St., Toronto
Uoo Jewellery Mfg.	9 Richmond St. E., Toronto
Varley & Atkins Co.	4 Wellesley St., Toronto 5
Walker, Ben Jewellery Ltd.	229 Yonge St., Toronto 1
Walker, Harry Jewellery Mfg. Co. Ltd.	6 Teraulay St., Toronto 1
Wellings Mfg. Co. of Toronto, Ltd., The	67 Richmond St. E., Toronto 1
Williams Jewellery Co.	14 Temperance St., Toronto 1
Wille, C. & Sons Ltd.	20 Temperance St., Toronto 1
Windle, E. & Co.	521 Victoria Park Ave., Toronto
Young & Fisher	Box 9, Statton Rd., Pickering
Manitoba:	
Clay Law Limited	62 Atbert St., Winnipeg 2
Dunn, W.E.	264 Portage Ave., Winnipeg 1
Freedman's Jewellery Mfg.	284 Fort St., Winnipeg 1
Ray-Serene Company	669 Main St., Winnipeg 2
Souris Rock & Agate	Dickson Ave., Souris
Winnipeg Silver Plate Co. Ltd.	786 Toronto St., Winnipeg
Saskatchewan:	
Kennedy, Logan P.	165-3rd Ave. S., Saskatoon
Thompson, S.H. Mfg. Ltd.	214-21st St. E., Saskatoon
Alberta:	
Jedco Ltd.	10135-103rd St., Edmonton
Kneller's Supply Co. Ltd.	109-10046-101st St., Edmonton
Phillips, Frank X. Silversmiths	1231-17th St. N.W., Calgary
Rocky, R.	9650-99th St., Edmonton
British Columbia:	
Acme Plating & Silver Shop Ltd.	1530 West 6th Ave., Vancouver
Alaska Jewellery Mfg. Co. Ltd.	834 Granville St., Vancouver
Albright Jewellery Co.	576 Seymour St., Vancouver
B.C. Gem & Lapidary Supply	1042 Denman St., Vancouver
Capital Mfg. Jewellers Ltd.	1029 Douglas St., Victoria
Diment Jewellers	3399 Anchorage Rd., Lagoon
Flewelling & Cooper	18 Hastings St. W., Vancouver 4
Grimson & Sons Ltd.	163 Hastings St. W., Vancouver 3
Hawken & Co.	144 Hastings St. W., Vancouver 3
Jacoby Brother Ltd.	434 Pender St. W., Vancouver 3
Jeffries & Co.	1026 Fort St., Victoria
Kelbert Trophies Ltd.	549 Horner St., Vancouver
Lyle, Eric Jewellers	576 Seymour St., Vancouver
Pen Mfg. Co.	1226 Granville St., Vancouver 2
Pressed Metal Products Ltd.	446 Railway St., Vancouver 4
Schutter, B.	680 Robson St., Vancouver 2
Schuren, K.H. Design Associates Ltd.	3397 Craig End Rd., West Vancouver
Trasling, E.J. & Co. Ltd.	509 Richards St., Vancouver 2
Trasling-Waters Ltd.	576 Seymour St., Vancouver 2
Van Isle Jewellers	738 Yates St., Victoria
Westminster Mfg. & Jewellery Repairs Ltd.	618 Columbia St., New Westminster
Zuker Jewellery Co. Ltd.	193 Hastings St. E., Vancouver

CONCEPTS AND DEFINITIONS

Census of Manufactures

General

The Census of Manufactures is an annual mail survey covering Canada's Manufacturing Industries. It is based on the Standard Classification of Industries and full details concerning the system may be found in the Standard Industrial Classification manual, Catalogue No. 12-501 which is available from the Queen's Printer or the Dominion Bureau of Statistics. In summary, the Classification as it relates to the manufacturing industries provides for a breakdown into 140 industries arranged in 20 major industry groups. Of the 140 (3 digit) industries, 18 are further broken down into 56 (4 digit) sub classes. At the Canada level, principal statistics are collected and compiled for 176 separate industries. They cannot all be published separately by province, however, because of the confidential nature of the data in certain provinces.

The reporting unit for the Census is designated as the **establishment** (see definition of "Establishment" in following section) and a return is requested from every establishment classified to a manufacturing industry. Although respondents are required to submit reports covering the calendar year, financial year reports other than the calendar year are accepted in instances where respondents find it impossible to supply calendar year data from accounting records. When an establishment is operated for only part of a year a report is required covering the period of operation.

There are four different questionnaires used in the Census of Manufactures; (a) short form (b) long form (c) head office questionnaire and (d) commodity questionnaire. The short and long forms are used to obtain principal statistics and commodities shipped from establishments classified to manufacturing industries and differ only in the amount of detail requested. The short form is a single-sheet questionnaire sent to small manufacturers generally reporting shipments of less than \$100,000; this cut-off, however, varies somewhat between industries. The head office questionnaire is generally used for company head offices and/or auxiliary units separately located from the manufacturing establishment(s), (see following notes on Head offices and auxiliary units). The Commodity questionnaire is used to survey certain establishments which are coded (on the basis of their principal activity) to industries other than manufacturing in the Standard Industrial Classification system, but which undertake some manufacturing as a subsidiary activity. This single-sheet questionnaire is designed to collect information on the quantity and value of goods of own manufacture shipped by such establishments in order to achieve full coverage of domestically manufactured commodities (see the following note under Shipments).

The results of the Census are presented in some 140 publications. In addition to these annual industry publications there are annual summary reports for Canada and the provinces and special reports giving principal statistics by detailed geographic areas, by type of ownership and size of establishment. A special annual report covering the shipments of all manufactured commodities arranged in alphabetical order is also published.

Since 1960 the following major changes have been implemented in the Census of Manufactures: (a) a revised Standard Industrial Classification (b) a new establishment definition and (c) an extension of the establishment definition to cover the non-manufacturing activities of manufacturing establishments. The statistics presented in the various 1963 reports reflect the complete implementation of these changes and enable comparisons to be made with the years 1961 and 1962. For a complete description of the procedures followed in establishing the revised series, reference should be made to the Explanatory Notes included in the 1960, 1961 and 1962 industry publications. The statistical framework within which the Census of Manufactures is now carried out is based on the following concepts and definitions which have been developed as part of a general programme to achieve a fully integrated system of economic statistics.

Establishment

A manufacturing establishment is typically a factory, mill or plant principally engaged in manufacturing activities. The majority of such establishments are firms but many firms have more than one establishment. Such firms are requested to submit a separate Census of Manufactures report for each manufacturing establishment which can meet the reporting requirements embodied in the following definition of the "establishment":

"The smallest unit which is a separate operating entity capable of reporting the following principal statistics:

- Materials and supplies used
- Goods purchased for resale as such
- Fuel and power consumed
- Number of employees and salaries and wages
- Man-hours worked and paid
- Inventories
- Shipments or sales."

Each establishment is required to report on all the activities carried out within its accounting boundaries (except income from investments such as rent, interest and dividends) and data on the different activities (manufacturing, trading in goods not of own manufacture, construction by own labour

force, revenue from services, etc.) are requested to be reported separately. It should be noted that the statistics for separate activities are not completely consistent since some respondents cannot distinguish, in their records, materials, shipments and inventories relating solely to their own manufacturing activities. For example, inventory of goods purchased for re-sale may not be distinguishable from inventory of own manufactured goods. Complete consistency, therefore, can be obtained only at the "all operations" (total activity) level and for studies or statistical measures requiring accurate coordinated data, the "total" statistics should be used.

The number of establishments represents the number of operating units that are principally engaged in the activities of the manufacturing industries to which they have been classified. These units do not necessarily represent the total number engaged in the production of a commodity mainly produced in a certain industry. Some commodities are produced as secondary products in other manufacturing and non-manufacturing industries. It should be noted that head offices and auxiliary units which are surveyed separately are not included in the establishment count, (see following notes on head offices and auxiliary units).

Head Offices and Auxiliary Units

All head offices and auxiliary units of companies classified to the manufacturing industries such as sales offices, administrative offices, warehouses, laboratories, etc. are now surveyed as part of the Census of Manufactures.

These head offices and auxiliary units are either included in an establishment report or are surveyed by means of the head office questionnaire. The former is the most common case where a single establishment firm has its executive personnel, sales office, etc. located at the site of the manufacturing plant (establishment). The special head office questionnaire is generally used where a firm, regardless of the number of establishments, has separately located offices or auxiliary units. Such offices or units do not constitute establishments within the Census of Manufactures as they do not normally generate operational revenues, but give rise only to costs of operations (mainly salaries and wages) which are automatically included in the value of shipments or sales. Although not considered as establishments, and hence, not included in the "establishment" count for an industry, the operational costs are reflected in either the "Industry" statistics (3 or 4 digit level) or the "Major group" statistics (2 digit level) according to the following rules:

(a) In the case of single establishment firms, statistics for separately located offices and units are classified to the same industry (3 or 4 digit) as the establishment;

(b) In the case of multi-establishment firms, the statistics for such offices and units are coded to the same industry as the establishments of the firm, when all establishments are in the same industry (3 or 4 digit). When establishments of

such firms are coded (1) to different industries within a major group, (2) to industries in different major groups or (3) to industries in different divisions of the Standard Industrial Classification, then the statistics are included in the major group totals (2 digit level) in which the major part of the company's operations are classified. Although this may result in some distortion of major group statistics in the case of (2) and (3) the statistics at the industry (3 or 4 digit) level in all cases will be left free of these company-wide data.

Employees

(a) Production and related workers – Manufacturing activities

In addition to those engaged in production and assembling activities, they include those employed in storing, inspecting, handling, packing, warehousing, etc. They also include employees engaged in maintenance, repair, janitorial and watchman services and line supervisors (working foremen) engaged in similar work to that of the employees they supervise. For those establishments reporting on the "long" form, production and related workers engaged in manufacturing activity are reported as those receiving pay during the last pay period of each month, an average for the year being obtained by summing the monthly figures and dividing by 12. This procedure is followed even though the establishment did not operate in all months in order to arrive at equivalent annual full-time employment. The numbers are somewhat affected by turnover, in that employment is overstated when an employee changes employment during a pay period. In the case of those establishments reporting on the "short" form, respondents are requested to report average annual figures. The man-hours of production and related workers in manufacturing activity represent total man-hours paid (total hours at work during the calendar year plus hours not worked but nevertheless paid for, such as paid vacations, sick leave, statutory holidays, etc.). Data on man-hours are not collected from establishments reporting on the short form. Man-hours for these establishments are estimated on the basis of ratios derived from the 1958 census. During this census all establishments reported on the long form. In reporting overtime hours, respondents are requested to report only hours actually at work. It should be noted that the division of hours paid into production and related workers payrolls results in average hourly earnings and does not represent hourly wage rates which are collected and published by the Department of Labour and which are based on selected occupations.

(b) Production and related workers – Non-manufacturing activities

Such employees include those on manufacturing establishments' payrolls engaged in activities such as construction undertaken for the use of these establishments, some outside piece-workers employed in certain industries, logging employees who are reported as part of a sawmilling establishment and any other production workers who are not engaged in manufacturing-type operations.

(c) Administrative and office employees

This category includes all executive and supervisory officials such as presidents, vice-presidents, comptrollers, secretaries, treasurers, etc., together with managers, professional, technical and research employees, superintendents and factory supervisors above the line supervisor or working foreman level, and clerical staffs. Also included are employees in activities such as advertising, credit collections, purchasing, personnel, legal, medical, etc. It should be noted that prior to 1961 this category also included working owners and partners. Also included in this category are employees located at head offices or auxiliary units separately located from the establishment; these are generally included in the figures for the province in which they are located according to the rules outlined under "Head offices and auxiliary units" above.

(d) Sales and distribution workers

This category includes office personnel whose salaries are charged to selling expense, travelling salesmen, driver salesmen, truckdrivers and their helpers, etc. It may also include some sales employees who are reported as part of a manufacturing establishment but are not working at the establishment's location. These are generally broken down by province in cases where more than 15 employees are involved in any one province. The figures exclude persons working on a commission basis who are not considered regular employees of the establishment.

(e) Total Employees

This total comprises the foregoing categories including employees located at separately located head offices and auxiliary units. The numbers of employees included under categories (b), (c) and (d) are reported in the form of annual averages and represent as closely as possible full time employment; adjustments are made when reported figures indicate the existence of part time or seasonal employment. In all the above categories, figures on employment refer to the calendar year whether or not other establishment statistics can only be reported on a fiscal year other than the calendar year.

Working Owners or Partners

These are not now included in the statistics of employees and salaries and wages. There is some duplication in numbers when a person owns more than one establishment and is reported as a working owner on each Census return. Withdrawals of working owners are defined as amounts withdrawn by owners or partners for normal living expenses excluding withdrawals for payment of income tax.

Salaries and Wages

Salaries and wages refer to gross earnings of employees **before** deductions for income tax and employees contributions to social services such as sickness, accident and unemployment insurance, pensions, etc. They include all salaries, wages,

bonuses, profits shared with employees, the value of room and board where provided, commissions (paid to regular employees only) as well as any other allowance forming part of the worker's earnings. Payments for over-time are included. Figures on salaries and wages refer to the calendar year.

Fuel and Electricity

Figures for fuel refer to amounts actually used (including fuel used in cars, trucks, locomotives, etc.), not to purchases unless the quantities are substantially the same. **Any fuel and electricity produced by establishments for internal consumption are not included in the total cost.** Values represent laid down cost at the establishment including freight, duty, etc. Although fuel and electricity used is considered part of manufacturing activity it should be noted that it also includes relatively small amounts used in non-manufacturing activities since these cannot be reported separately.

Materials and Supplies

(a) Manufacturing activities

Figures represent quantities and laid down cost values, at the establishment, of materials, supplies and purchased components owned and used during the year in manufacturing activities and related processes. These statistics represent only commodity items or physical goods (cost of services or overhead charges such as advertising, insurance, depreciation, etc. are not included) whether purchased from others or received as transfers (in the form of materials, components or semi-processed goods) from other establishments of the reporting company. Included are maintenance and repair supplies not chargeable to fixed assets accounts and any amounts charged by other establishments for work done on materials owned by the reporting establishment. Cost of repairs or maintenance done by outside contractors and cost of returnable containers are not included.

(b) Non-manufacturing activities

1. Purchases for re-sale as such

Figures represent cost of materials or products purchased from others by the reporting establishment (or received as transfers from other establishments of the reporting company) for re-sale as such in the same condition as purchased. Included are any finished products received on consignment from other countries.

2. Other materials and supplies used

Figures represent the cost of materials and supplies, if any, used in new construction and in the production of machinery and equipment (for the use of the reporting establishment) by the establishment's own employees. Included are materials used for any capital repairs and alterations carried out by the establishment's employees. Amounts paid to outside contractors for construction and repair work are not included nor is the cost of

purchased machinery and equipment. Also included is the cost of office supplies not chargeable to fixed assets accounts and the cost of such other items of materials and supplies used as food, beverages and supplies for establishment-operated cafeterias and lunch counters, first aid and medical supplies, laboratory supplies, etc.

Shipments

(a) General

The figures represent revenue from all production, sales, services and related activities of reporting establishments with shipments valued in Canadian dollars at the point at which the establishment relinquishes control. The unsold portion at year end of consignment shipments in Canada is treated as inventory and not as shipments but all shipments to foreign countries for which the form B13 "Customs Canada Export Entry" has been completed, are treated as shipments.

In those industries where work on principal products extends over a relatively long period, (Fabricated Structural Metal Industry, Aircraft and Parts Manufacturers, Railroad Rolling Stock Industry and Shipbuilding and Repair Industry) the value of production rather than the value of shipments is recorded. There are certain establishments in other industries which also operate on a basis of progress payments. For these establishments, shipments are also adjusted to work put in place on the basis of the net change in progress payments over the year.

(b) Shipments of goods of own manufacture

These figures represent shipments of goods made from own materials either in the reporting establishments or by other manufacturers on the basis of a charge to the reporting establishments for work done. Included are revenue from repair and custom work, amounts received in payment for work done on materials owned by other establishments and the cost (book value) of any goods shipped on a rental basis.

All products and by-products of own manufacture shipped from the establishment are covered, including transfer shipments to sales outlets, distributing warehouses or to other manufacturing plants of the reporting firm, when such units are treated as separate establishments. The value of shipments are net of returned goods, discounts, returns, allowances, sales tax and excise taxes and duties, returnable containers and charges for outward transportation by common or contract carriers. Transportation or delivery expense incurred by the reporting establishment's own carriers are included.

Shipments of goods of own manufacture of establishments which are coded to some other division of the Standard Industrial Classification (on the basis of principal activity) but which are engaged in manufacturing as a subsidiary activity

are collected by means of the Commodity questionnaire referred to earlier. Such shipments together with shipments of goods of own manufacture of establishments forming the universe of manufacturing industries are compiled and recorded in the various industry publications.

(c) Shipments of goods not of own manufacture

These figures represent the net selling value at establishment (net of discounts, returns, allowances, sales taxes and excise duties and taxes and transportation charges by common or contract carriers) of all products or materials (including products transferred from other establishments of the reporting firm) sold as such in the same condition as purchased or received as transfers. For those industries which ship such goods on a rental basis, the value of shipments represents the book value of these goods. All sales of consignment goods from other countries are included.

(d) Other revenue

Figures represent the book value of fixed assets, if any, (new construction and machinery and equipment including major repairs, alterations, additions, modifications, installation and assembly work) produced during the year for the use of reporting establishments by the establishment's own employees and for which depreciation accounts are maintained. Included also are any revenues from the sale of electricity and from any operations performed by the establishment's own employees, such as revenue from goods produced or purchased for rental (the book value of such goods are included as part of shipments of goods of own manufacture or shipments of goods not of own manufacture), servicing revenues, commissions on sales (when not included in value of sales), revenue for company-operated cafeterias and lunch counters and revenue from outside installation or construction work not related to the establishment's own products, sale of used materials (excluding sale of used fixed assets) research and development work, etc. As mentioned previously the figures do not include non-operating revenue such as rent, dividends, interest, etc.

Inventories

(a) Manufacturing activities

Values represent the book values of manufacturing inventory owned in Canada. Inventories held for which progress payments have been received are not included. Where progress payment accounts are maintained, the change in these accounts is treated as a net adjustment to shipments. Figures consist of inventory owned at the plant and at warehouses or selling outlets which are treated as extensions of establishments for the purpose of reporting shipments. Inventory owned in transit in Canada or on consignment in Canada is included. Goods shipped abroad and held in inventory are included in shipments. Opening inventories may differ from the closing inventories of the previous year because of changes in classification, the

receipt of revised data, the inclusion of new establishments and the removal of establishments which did not operate during the survey year.

(b) Non-manufacturing activities

Figures represent the book value of inventory of goods purchased for re-sale as such without further processing, owned by the reporting establishments and held at plants and at any warehouses or selling outlets which are treated as extensions of establishments. Other characteristics are the same as in (a) above.

Value Added

(a) By manufacturing activities

Figures are compiled by deducting the cost of manufacturing materials, supplies, etc. and fuel and electricity consumed from the (value of shipments of goods of own manufacture adjusted for changes in the value of inventories of finished goods and goods in process).

(b) By non-manufacturing activities

The figures are compiled by deducting the cost of goods purchased for re-sale (adjusted for changes in the value of inventories of goods pur-

chased for re-sale) and the cost of non-manufacturing materials and supplies used from the value of shipments of goods not of own manufacture, plus other revenue.

(c) By Total activities

The figures consist of value added by manufacturing activities plus value added by non-manufacturing activities. This total value added figure may, in some cases, be less than value added by manufacturing activities as a result of expenditures associated with non-manufacturing exceeding revenues from such activities or because of a decrease in inventory of goods not of own manufacture exceeding the mark-up on the sale of such goods. "Value added" is sometimes referred to as net output or net production. However, to arrive at the National Accounts concept of net production, or Gross Domestic Product at "Factor cost" it would be necessary to subtract also the cost of advertising, insurance and other business expenses which are not collected as part of the annual Census of Manufactures. "Value added" figures for the primary industries, manufacturing and construction are published in DBS publication Catalogue No. 61-202, "Survey of Production".



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