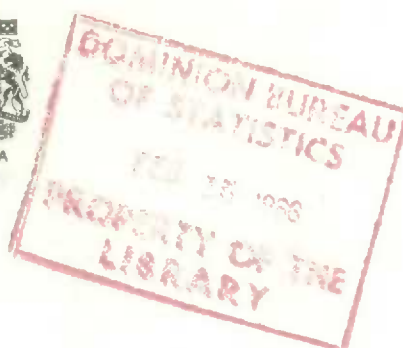


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PEN AND PENCIL AND TYPEWRITER
SUPPLIES MANUFACTURERS
1963

ANNUAL CENSUS
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PEN AND PENCIL AND TYPEWRITER SUPPLIES MANUFACTURERS

1963

SECTION 1. PEN AND PENCIL MANUFACTURERS, 1963

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 fountain pens and parts; ball-point pens; lead and mechanical pencils; and crayons".

Table 6 presents the details of materials used in manufacturing, whereas Table 7 gives the shipments of goods of own manufacture by the industry.

A list of the establishments classified to the industry in the 1963 survey will be found at the end of this section of the 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 A. Principal Statistics classified by Province, 1962 and 1963

Year and province	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		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1961													
Totals	18	765	1,561	1,997	91	6,445	15,051	8,350	x	x	1,188	4,251	8,368
1962													
Newfoundland	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—	—	—	—	—	—	—	—
New Brunswick	—	—	—	—	—	—	—	—	—	—	—	—	—
Quebec	9	375	776	998	36	2,903	7,197	4,285	x	x	486	1,727	4,284
Ontario	9	398	848	1,139	61	3,970	9,069	5,106	—	—	690	2,815	5,155
Manitoba	—												
Saskatchewan	—												
Alberta	1												
British Columbia	—	—	—	—	—	—	—	—	—	—	—	—	—
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	19	773	1,623	2,138	97	6,873	16,266	9,392	x	x	1,176	4,542	9,438
1963													
Newfoundland	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—	—	—	—	—	—	—	—
New Brunswick	—	—	—	—	—	—	—	—	—	—	—	—	—
Quebec	9	339	697	878	38	3,414	7,483	3,978	x	x	468	1,869	3,974
Ontario	9	412	865	1,173	62	4,207	8,999	4,731	—	—	635	2,562	5,105
Manitoba	—												
Saskatchewan	—												
Alberta	1												
British Columbia	—	—	—	—	—	—	—	—	—	—	—	—	—
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	19	751	1,562	2,052	100	7,621	16,481	8,708	x	x	1,103	4,431	9,080

TABLE 1 B. Principal Statistics classified by Size Groups based on Shipments of Goods of Own Manufacture, 1962 and 1963

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		Total employees	
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages
	No.		'000			\$'000				\$'000		\$'000
1962												
Under \$10,000.....	—	—	—	—	—	—	—	—	—	—	—	—
\$ 10,000 to \$ 24,999.....	4	21	42	46	4	122	279	156	x	x	27	64
25,000 " 49,999.....												
50,000 " 99,999.....												
100,000 " 199,999.....												
200,000 " 499,999.....	5	95	204	261	14	768	1,690	889	—	—	139	539
500,000 " 999,999.....	5	249	507	613	30	1,660	3,896	2,203	—	—	363	1,197
1,000,000 " 4,999,999.....	5	408	871	1,218	48	4,322	10,401	6,143	—	—	606	2,460
5,000,000 and over.....	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units.....	—	—	—	—	—	—	—	—	—	—	41	282
Totals.....	19	773	1,623	2,138	97	6,873	16,266	9,392	x	x	1,176	4,542
1963												
Under \$10,000.....	—	—	—	—	—	—	—	—	—	—	—	—
\$ 10,000 to \$ 24,999.....	4	24	47	51	5	162	364	191	x	x	35	93
25,000 " 49,999.....												
50,000 " 99,999.....												
100,000 " 199,999.....												
200,000 " 499,999.....	5	109	217	274	16	936	1,774	770	x	x	153	533
500,000 " 999,999.....	5	214	452	550	30	1,745	3,697	2,019	—	—	310	1,126
1,000,000 " 4,999,999.....	5	404	847	1,177	49	4,779	10,646	5,728	—	—	605	2,677
5,000,000 and over.....	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units.....	—	—	—	—	—	—	—	—	—	—	—	—
Totals.....	19	751	1,562	2,052	100	7,621	16,481	8,708	x	x	1,103	4,431

TABLE 1 C. Principal Statistics classified by Size Groups based on Manufacturing Value Added, 1962 and 1963

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		Total employees	
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages
	No.		'000			\$'000				\$'000		\$'000
1962												
Under \$10,000.....	—	—	—	—	—	—	—	—	—	—	—	—
\$ 10,000 to \$ 24,999.....	4	21	41	46	4	122	279	156	x	x	27	64
25,000 " 49,999.....												
50,000 " 99,999.....												
100,000 " 199,999.....												
200,000 " 499,999.....	4	73	160	204	8	619	1,202	557	—	—	100	384
500,000 " 999,999.....	4	159	319	380	25	1,293	2,700	1,393	—	—	236	757
1,000,000 " 4,999,999.....	3	171	356	448	17	1,581	3,631	2,090	—	—	262	942
5,000,000 and over.....	4	349	747	1,060	42	3,257	8,455	5,195	—	—	510	2,113
Head offices, sales offices and auxiliary units.....	—	—	—	—	—	—	—	—	—	—	—	—
Totals.....	19	773	1,623	2,138	97	6,873	16,266	9,392	x	x	1,176	4,542
1963												
Under \$10,000.....	—	—	—	—	—	—	—	—	—	—	—	—
\$ 10,000 to \$ 24,999.....	5	45	91	107	11	404	773	281	x	x	76	235
25,000 " 49,999.....												
50,000 " 99,999.....												
100,000 " 199,999.....												
200,000 " 499,999.....	3	57	114	144	9	510	956	440	x	x	73	233
500,000 " 999,999.....	5	181	373	461	28	1,597	3,198	1,660	—	—	259	942
1,000,000 " 4,999,999.....	6	468	985	1,339	53	5,110	11,554	6,328	—	—	695	2,020
5,000,000 and over.....	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units.....	—	—	—	—	—	—	—	—	—	—	—	—
Totals.....	19	751	1,562	2,052	100	7,621	16,481	8,708	x	x	1,103	4,431

TABLE 1 D. Principal Statistics classified by Size Groups based on Total Value Added, 1962 and 1963

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		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1962													
Under \$10,000.....	4	21	41	46	4	122	279	156	x	x	27	64	157
\$ 10,000 to \$ 24,999.....													
25,000 " 49,999.....													
50,000 " 99,999.....													
100,000 " 199,999.....		46	105	136	6	461	846	358	—	—	64	240	371
200,000 " 499,999.....	6	247	497	607	34	1,614	3,782	2,101	—	—	362	1,190	2,130
500,000 " 999,999.....	3	188	402	503	24	1,937	4,442	2,629	—	—	294	1,119	2,637
1,000,000 " 4,999,999.....	3	271	579	845	28	2,739	6,917	4,147	—	—	388	1,647	4,161
5,000,000 and over.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units.....	—	—	—	—	—	—	—	—	—	—	41	282	(17)
Totals	19	773	1,623	2,138	97	6,673	16,266	9,392	x	x	1,176	4,542	9,439
1963													
Under \$10,000.....	5	45	91	107	11	404	773	281	x	x	76	235	282
\$ 10,000 to \$ 24,999.....													
25,000 " 49,999.....													
50,000 " 99,999.....													
100,000 " 199,999.....		57	114	144	9	510	956	440	x	x	73	233	438
200,000 " 499,999.....	5	181	373	461	28	1,597	3,198	1,660	—	—	259	942	1,697
500,000 " 999,999.....	3	214	457	566	26	1,919	4,424	2,498	—	—	318	1,227	2,532
1,000,000 " 4,999,999.....	3	254	528	773	27	3,191	7,130	3,830	—	—	377	1,794	4,131
5,000,000 and over.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	19	751	1,562	2,052	100	7,621	16,481	8,706	x	x	1,103	4,431	9,080

TABLE 1 E. Principal Statistics classified by Size Groups based on Total Employed, 1962 and 1963

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		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1962													
Under 5 employed.....	4	21	41	46	4	122	279	156	x	x	27	64	157
5- 14 ".....													
15- 49 ".....		95	204	261	14	768	1,690	889	—	—	139	539	934
50- 99 ".....		385	805	1,038	44	3,617	8,303	4,754	—	—	552	1,889	4,813
100-199 ".....		272	572	793	35	2,366	5,994	3,592	—	—	417	1,769	3,552
200-499 ".....	—	—	—	—	—	—	—	—	—	—	—	—	—
500 employed and over.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units.....	—	—	—	—	—	—	—	—	—	—	41	282	(17)
Totals	19	773	1,623	2,138	97	6,673	16,266	9,392	x	x	1,176	4,542	9,439
1963													
Under 5 employed.....	3	10	18	22	4	78	197	110	x	x	16	43	112
5- 14 ".....													
15- 49 ".....		153	306	375	25	1,220	2,495	1,203	x	x	218	744	1,239
50- 99 ".....		237	505	634	28	2,577	5,138	2,584	—	—	350	1,335	2,630
100-199 ".....		351	733	1,021	43	3,747	8,652	4,812	—	—	519	2,309	5,099
200-499 ".....	—	—	—	—	—	—	—	—	—	—	—	—	—
500 employed and over.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	19	751	1,562	2,052	100	7,621	16,481	8,706	x	x	1,103	4,431	9,080

TABLE 1 F. Principal Statistics classified by Type of Organization, 1962 and 1963

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		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1962													
Individual ownerships	19	773	1,623	2,138	97	6,873	16,266	9,392	x	x	1,135	4,260	9,456
Partnerships													
Incorporated companies													
Cooperatives	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units	—	—	—	—	—	—	—	—	—	—	41	282	(17)
Totals	19	773	1,623	2,138	97	6,873	16,266	9,392	x	x	1,176	4,542	9,439
1963													
Individual ownerships	19	751	1,562	2,052	100	7,621	16,461	8,708	x	x	1,103	4,431	9,080
Partnerships													
Incorporated companies													
Cooperatives	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	19	751	1,562	2,052	100	7,621	16,481	8,708	x	x	1,103	4,431	9,080

TABLE 2. Industry Output, Input and Value Added, 1962 and 1963

	Manufacturing activity		Non-manufacturing activities		Total activity	
	1962	1963	1962	1963	1962	1963
	\$'000					
Output						
1. Shipments and other revenue	16,266	16,481	862	1,033	17,128	17,514
Inventories—Goods of own manufacture:						
Add closing—Goods in process	971	894	...	...	971	894
Finished goods	1,387	1,390	...	...	1,387	1,390
Less opening—Goods in process	925	958	...	...	925	958
Finished goods	1,337	1,378	...	...	1,337	1,378
2. Net inventory change	96	(52)	...	...	96	(52)
3. Gross output (1 + 2)	16,362	16,429	862	1,033	17,224	17,462
Input						
4. Purchases of goods not of own manufacture .....	...	...	668	550	668	550
Inventories—Goods not of own manufacture:						
Add opening .....	...	...	90	78	90	78
Less closing .....	...	...	68	87	68	87
5. Cost of goods sold (not of own manufacture) .....	...	...	690	541	690	541
6. Materials, supplies, components and semi-processed goods	6,873	7,621	126	120	6,999	7,741
7. Fuel and electricity	97	100	...	...	97	100
8. Gross input (5 + 6 + 7)	6,970	7,721	816	661	7,786	8,382
Census value added (3-8)	9,392	8,708	48	372	9,439	9,080

TABLE 3. Employment and Payroll, 1962 and 1963

Year and province	Employees										Salaries and wages				
	Production and related workers				Adminis- trative and office		Sales and distribution		Total employees		Production and related workers		Admin- istrative and office	Sales and distri- bution	Total salaries and wages
	Manufacturing		Other												
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Manufac- turing	Other			
number										\$'000					
1962															
Newfoundland	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
New Brunswick	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Quebec	133	242	7	6	29	33	32	4	201	285	998	17	479	233	1,727
Ontario	121	277	4	3	104	97	77	7	306	384	1,139	4	1,117	555	2,815
Manitoba															
Saskatchewan															
Alberta															
British Columbia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	254	519	11	9	133	130	109	11	507	669	2,138	20	1,596	788	4,542
1963															
Newfoundland	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
New Brunswick	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Quebec	116	223	2	3	33	32	49	10	200	268	878	30	546	414	1,869
Ontario	110	302	1	2	72	67	75	6	258	377	1,173	4	843	541	2,562
Manitoba															
Saskatchewan															
Alberta															
British Columbia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	226	525	3	5	105	99	124	16	458	645	2,052	34	1,389	955	4,431

TABLE 3 A. Production and Related Workers.—Manufacturing Activity, by Months, 1962 and 1963

Month	Establishments reporting monthly detail			
	1962		1963	
	Male	Female	Male	Female
	number			
January	271	505	228	522
February	268	482	226	494
March	268	486	231	475
April	266	500	225	502
May	269	512	227	516
June	259	508	222	501
July	241	513	226	506
August	243	574	230	547
September	246	569	225	554
October	238	566	222	566
November	233	555	225	587
December	229	456	222	556
Average for establishments reporting monthly detail (collected only for large establish-ments)	254	519	226	525
Average for small establishments (only annual averages collected) .....	...	...	...	...
Average for all establishments	254	519	226	525

TABLE 4. Industry Inventories, 1963

Province	Manufacturing				Non-manufacturing	Total inventories
	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total manufacturing	Products or materials purchased for resale	
book value \$'000						
Opening:						
Newfoundland	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—
New Brunswick	—	—	—	—	—	—
Quebec	762	272	478	1,511	15	1,527
Ontario	1,279	686	901	2,866	63	2,929
Manitoba						
Saskatchewan						
Alberta						
British Columbia	—	—	—	—	—	—
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	2,041	958	1,378	4,377	78	4,455
Closing:						
Newfoundland	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—
New Brunswick	—	—	—	—	—	—
Quebec	782	199	498	1,479	16	1,495
Ontario	1,536	695	893	3,124	71	3,195
Manitoba						
Saskatchewan						
Alberta						
British Columbia	—	—	—	—	—	—
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	2,318	894	1,390	4,603	87	4,690

TABLE 5. Purchased Fuel and Electricity Used in Manufacturing Activity, 1962 and 1963

Description	1962		1963	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
1. Large establishments which reported commodity detail:				
Bituminous coal:				
(a) From Canadian mines	ton	—	—	—
(b) Imported	"	479	511	6
Sub-bituminous coal (from Alberta mines only)	"	—	—	—
Anthracite coal	"	—	—	—
Lignite coal	"	—	—	—
Coke	"	—	—	—
Gasoline (including gasoline used in cars and trucks) ..	Imp. gal.	16,364	13,050	6
Fuel oil including kerosene or coal oil	"	270,905	255,298	29
Wood	cord	—	—	—
Gas:				
(a) Liquefied petroleum gases	Imp. gal.	2,264	26,775	1
(b) Other manufactured gas	M cu. ft.	—	—	—
(c) Natural gas	"	195	367	—
Other fuel		—	—	—
Electricity purchased	kwh.	3,363,887	3,773,994	52
Steam purchased		—	—	—
2. Estimate for small establishments:				
Fuel and electricity		1	—	5
3. All establishments:				
Total fuel and electricity used		97	—	100

TABLE 6. Materials and Supplies - Manufacturing Activity, 1962 and 1963

Description	1962		1963	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
1. Materials used:				
Rubber..... lb.	99,668	63	186,890	121
Plastics..... "	1,182,253	408	980,692	322
Crayon materials.....	...	177	...	192
Gold alloys.....	...	31	...	28
Gold leaf.....	...	6	...	--
Silver..... oz.	11,211	13	2,891	13
Iridium..... "	32	3	130	14
Leads.....	...	570	...	511
Ink and ink ingredients.....	...	127	...	327
Pen and pencil parts.....	...	3,373	...	3,768
Glue..... lb.	37,115	13	34,017	13
Lacquer..... gal.	11,637	89	10,886	86
Wood.....	...	458	...	417
All other materials and components used ¹.....	...	331	...	465
2. Containers and other packaging materials and supplies used.....	...	953	...	1,073
3. Operating, maintenance and repair supplies used (excluding fuel).....	...	213	...	268
4. Amount paid out to others for work done on materials owned by establishments.....	...	45	...	5
Totals.....	...	6,873	...	7,621

¹ No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. These estimated costs were \$47,178 in 1962 and \$161,901 in 1963.

TABLE 7. Shipments of Goods of Own Manufacture, 1962 and 1963

Description	1962		1963	
	Quantity	Value	Quantity	Value
		\$'000		\$'000
1. Products:				
Fountain pens..... doz.	153,266	2,309	134,201	1,892
Fountain pen nibs, holders and other parts.....	...	294	...	384
Ball point pens..... doz.	4,089,047	5,763	4,400,056	6,038
Refills for ball point pens and liquid lead pencils..... "	2,422,035	1,124	2,487,713	1,089
Non-mechanical pencils, black lead..... gross	510,611	2,357	553,861	2,383
Non-mechanical pencils, other.....	1	1	1	1
Pencils, mechanical..... doz.	79,352	484	82,776	499
Leads for pencils.....	...	156	...	130
Desk sets..... doz.	12,396	269	10,445	247
Other stationery supplies.....	...	3,243	...	3,515
All other products.....	...	250	...	249
2. Amount received in payment for work done on materials and products owned by others.....	...	55	...	62
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above.....	...	(39)	...	(5)
Total adjusted value of shipments and work done.....	...	16,266	...	16,481

¹ Included in "Other stationery supplies".

List of Establishments classified to This Industry, 1963

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

Name	Location
Quebec:	
Eagle Pencil Co. of Canada Ltd.	201 St. Jean St., Drummondville
Eberhard Faber (Canada) Ltd.	1100 Bernard St., Acton Vale
The Jacomar Pen.....	2555 Ave. De Vitre, Québec 3
La Manufacture Canadienne de Crayons Inc.	101 St. Charles, Marieville
Lion Pen Co.	636 St. Paul St. W., Montreal 3
National Merchandise Mfg. Co., Inc.	180 Bates Rd., Town of Mount Royal
North-Rite Ltd.	105 René-Philippe, Ville Lemoyne
Pronto Precision Products Ltd.	180 Bates Rd., Town of Mount Royal
L.E. Waterman Pen Co. Ltd.	2 Waterman St., St. Lambert
Ontario:	
Canada Crayon Company Ltd.	95 Lindsay St. N., Lindsay
Dixon Pencil Company Limited.....	531 Davis Drive, Newmarket
The Esterbrook Pen Co. of Canada Ltd.	110 Jutland Rd., Toronto 18
Parker Pen Co. Ltd.	45 Green Belt Drive, Don Mills
Rice, Frank Sales Limited.....	60 Front St. W., Toronto
Scripto of Canada Ltd.	161 Barkley Drive, Toronto 18
Sheaffer, W.A. Pen Co. of Canada Ltd.	Huron Rd., Goderich
Truform Industries Limited	61 Milvan Drive, Weston
Venus Pencil Co. Limited	1325 The Queensway, Toronto 18
Alberta:	
Truline Pen Co. Ltd.	2212 Centre St. N., Calgary

SECTION 2. TYPEWRITER SUPPLIES MANUFACTURERS, 1963

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 carbon paper, stencil paper, inked ribbons and other typewriter supplies".

The 1963 level of activity in this industry was somewhat higher than in 1962. Table 6 presents the detail of materials used in manufacturing and Table 7, covering shipments of goods of own manufacture, has been somewhat abridged in presentation. The two main products of the industry, namely, carbon paper and machine equipment ribbons, are also made by firms not classified to this industry, and this abridgement of Table 7 was necessary in order to present the shipments of these two commodities by all industries in Table 8.

A list of the establishments classified to the industry in the 1963 survey will be found at the end of this section of the report.

TABLE 1 A. Principal Statistics classified by Province, 1962 and 1963

Year and province	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		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1961													
Totals	10	325	745	958	58	3,871	7,700	3,782	—	—	543	2,146	3,792
1962													
Newfoundland	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—	—	—	—	—	—	—	—
New Brunswick	—	—	—	—	—	—	—	—	—	—	—	—	—
Quebec	3	x	x	x	x	x	x	x	—	—	x	x	x
Ontario	6	291	626	889	51	3,847	7,042	3,116	—	—	469	1,830	3,152
Manitoba	—	—	—	—	—	—	—	—	—	—	—	—	—
Saskatchewan	—	—	—	—	—	—	—	—	—	—	—	—	—
Alberta	—	—	—	—	—	—	—	—	—	—	—	—	—
British Columbia	1	x	x	x	x	x	x	x	—	—	x	x	x
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	10	354	761	1,064	64	4,653	8,390	3,681	—	—	583	2,243	3,799
1963													
Newfoundland	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—	—	—	—	—	—	—	—
New Brunswick	—	—	—	—	—	—	—	—	—	—	—	—	—
Quebec	3	x	x	x	x	x	x	x	—	—	x	x	x
Ontario	6	301	653	1,011	53	3,807	7,349	3,530	—	—	457	1,948	3,582
Manitoba	—	—	—	—	—	—	—	—	—	—	—	—	—
Saskatchewan	—	—	—	—	—	—	—	—	—	—	—	—	—
Alberta	—	—	—	—	—	—	—	—	—	—	—	—	—
British Columbia	1	x	x	x	x	x	x	x	—	—	x	x	x
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	10	369	805	1,227	70	4,653	8,875	4,162	—	—	567	2,394	4,274

TABLE 1 B. Principal Statistics classified by Size Groups based on Shipments of Goods of Own Manufacture, 1962 and 1963

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		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			'000				'000		'000	
1962													
Under \$10,000.....	—	—	—	—	—	—	—	—	—	—	—	—	—
\$ 10,000 to \$ 24,999.....	—	—	—	—	—	—	—	—	—	—	—	—	—
25,000 " 49,999.....	—	—	—	—	—	—	—	—	—	—	—	—	—
50,000 " 99,999.....	5	65	150	188	15	622	1,203	585	—	—	112	444	717
100,000 " 199,999.....													
200,000 " 499,999.....													
500,000 " 999,999.....													
1,000,000 " 4,999,999.....	5	289	610	876	49	4,031	7,187	3,096	—	—	471	1,799	3,081
5,000,000 and over.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals.....	10	354	761	1,064	64	4,653	8,390	3,681	—	—	583	2,243	3,799
1963													
Under \$10,000.....	—	—	—	—	—	—	—	—	—	—	—	—	—
\$ 10,000 to \$ 24,999.....	—	—	—	—	—	—	—	—	—	—	—	—	—
25,000 " 49,999.....	—	—	—	—	—	—	—	—	—	—	—	—	—
50,000 " 99,999.....	5	61	136	203	22	654	1,294	632	—	—	88	379	701
100,000 " 199,999.....													
200,000 " 499,999.....													
500,000 " 999,999.....													
1,000,000 " 4,999,999.....	5	308	669	1,024	46	3,998	7,582	3,531	—	—	479	2,016	3,573
5,000,000 and over.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals.....	10	369	805	1,227	70	4,653	8,875	4,162	—	—	567	2,394	4,274

TABLE 1 C. Principal Statistics classified by Size Groups based on Manufacturing Value Added, 1962 and 1963

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		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			'000				'000		'000	
1962													
Under \$10,000.....	—	—	—	—	—	—	—	—	—	—	—	—	—
\$ 10,000 to \$ 24,999.....	—	—	—	—	—	—	—	—	—	—	—	—	—
25,000 " 49,999.....	—	—	—	—	—	—	—	—	—	—	—	—	—
50,000 " 99,999.....	5	66	151	188	11	749	1,265	523	—	—	102	358	570
100,000 " 199,999.....													
200,000 " 499,999.....													
500,000 " 999,999.....													
1,000,000 " 4,999,999.....	5	288	610	875	52	3,904	7,125	3,157	—	—	481	1,885	3,229
5,000,000 and over.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals.....	10	354	761	1,064	64	4,653	8,390	3,681	—	—	583	2,243	3,799
1963													
Under \$10,000.....	—	—	—	—	—	—	—	—	—	—	—	—	—
\$ 10,000 to \$ 24,999.....	—	—	—	—	—	—	—	—	—	—	—	—	—
25,000 " 49,999.....	4	46	101	143	9	458	847	378	—	—	63	255	448
50,000 " 99,999.....													
100,000 " 199,999.....													
200,000 " 499,999.....													
500,000 " 999,999.....	3	64	143	215	25	771	1,521	711	—	—	112	479	767
1,000,000 " 4,999,999.....	3	259	562	869	36	3,424	6,507	3,074	—	—	392	1,660	3,058
5,000,000 and over.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals.....	10	369	805	1,227	70	4,653	8,875	4,162	—	—	567	2,394	4,274

TABLE 1 D. Principal Statistics classified by Size Groups based on Total Value Added, 1962 and 1963

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		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000			\$'000
1962													
Under \$10,000.....	—	—	—	—	—	—	—	—	—	—	—	—	—
\$ 10,000 to \$ 24,999.....	—	—	—	—	—	—	—	—	—	—	—	—	—
25,000 " 49,999.....	5	66	151	188	11	749	1,265	523	—	—	102	358	570
50,000 " 99,999.....													
100,000 " 199,999.....													
200,000 " 499,999.....													
500,000 " 999,999.....	5	288	610	875	52	3,904	7,125	3,157	—	—	481	1,885	3,229
1,000,000 " 4,999,999.....													
5,000,000 and over.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	10	354	761	1,064	64	4,653	8,390	3,681	—	—	583	2,243	3,799
1963													
Under \$10,000.....	—	—	—	—	—	—	—	—	—	—	—	—	—
\$ 10,000 to \$ 24,999.....	4	46	101	143	9	458	847	378	—	—	63	255	448
25,000 " 49,999.....													
50,000 " 99,999.....													
100,000 " 199,999.....													
200,000 " 499,999.....	3	64	143	215	25	771	1,521	711	—	—	112	479	767
500,000 " 999,999.....													
1,000,000 " 4,999,999.....	3	259	562	869	36	3,424	6,507	3,074	—	—	392	1,660	3,058
5,000,000 and over.....													
Head offices, sales offices and auxiliary units.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	10	369	805	1,227	70	4,653	8,875	4,162	—	—	567	2,394	4,274

TABLE 1 E. Principal Statistics classified by Size Groups based on Total Employed, 1962 and 1963

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		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1962													
Under 5 employed	—	—	—	—	—	—	—	—	—	—	—	—	—
5- 14 " }	6	89	192	250	22	1,073	1,813	737	—	—	135	497	783
15- 49 " }													
50- 99 " }													
100-199 " }	4	265	569	813	41	3,580	6,576	2,943	—	—	448	1,746	3,015
200-499 " }													
500 employed and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	10	354	761	1,064	64	4,653	8,390	3,691	—	—	583	2,243	3,799
1963													
Under 5 employed	—	—	—	—	—	—	—	—	—	—	—	—	—
5- 14 " }	7	110	244	358	34	1,229	2,368	1,088	—	—	175	734	1,215
15- 49 " }													
50- 99 " }													
100-199 " }	3	259	562	869	36	3,424	6,507	3,074	—	—	392	1,660	3,058
200-499 " }													
500 employed and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	10	369	805	1,227	70	4,653	8,875	4,162	—	—	567	2,394	4,274

TABLE 1 F. Principal Statistics classified by Type of Organization, 1962 and 1963

Type of organization	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		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1962													
Individual ownerships	—	—	—	—	—	—	—	—	—	—	—	—	—
Partnerships	—	—	—	—	—	—	—	—	—	—	—	—	—
Incorporated companies	10	354	761	1,064	64	4,653	8,390	3,681	...	...	583	2,243	3,799
Cooperatives .....	—	—	—	—	—	—	—	—	...	...	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	10	354	761	1,064	64	4,653	8,390	3,681	—	—	583	2,243	3,799
1963													
Individual ownerships	—	—	—	—	—	—	—	—	—	—	—	—	—
Partnerships	—	—	—	—	—	—	—	—	—	—	—	—	—
Incorporated companies	10	369	805	1,227	70	4,653	8,875	4,162	...	...	567	2,394	4,274
Cooperatives .....	—	—	—	—	—	—	—	—	...	...	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	10	369	805	1,227	70	4,653	8,875	4,162	—	—	567	2,394	4,274

TABLE 2. Industry Output, Input and Value Added, 1962 and 1963

	Manufacturing activity		Non-manufacturing activities		Total activity	
	1962	1963	1962	1963	1962	1963
\$'000						
Output						
1. Shipments and other revenue	8,390	8,875	307	302	8,697	9,177
Inventories—Goods of own manufacture:						
Add closing—Goods in process	250	222	...	...	250	222
Finished goods	359	384	...	...	359	384
Less opening—Goods in process	320	209	...	...	320	209
Finished goods	281	387	...	...	281	387
2. Net inventory change	8	10	...	...	8	10
3. Gross output (1 + 2)	8,398	8,885	307	302	8,705	9,187
Input						
4. Purchases of goods not of own manufacture .....	...	...	170	162	170	162
Inventories—Goods not of own manufacture:						
Add opening .....	...	...	10	17	10	17
Less closing .....	...	...	13	12	13	12
5. Cost of goods sold (not of own manufacture) .....	...	...	167	167	167	167
6. Materials, supplies, components and semi-processed goods	4,653	4,653	22	25	4,675	4,678
7. Fuel and electricity	64	70	...	...	64	70
8. Gross input (5 + 6 + 7)	4,717	4,723	189	192	4,906	4,915
Census value added (3-8)	3,681	4,162	118	110	3,799	4,274

TABLE 3. Employment and Payroll, 1962 and 1963

Year and province	Employees										Salaries and wages				
	Production and related workers				Adminis- trative and office		Sales and distribution		Total employees		Production and related workers		Admin- istra- tive and office	Sales and distrib- ution	Total salaries and wages
	Manufacturing		Other								Manufacturing	Other			
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female						Manufacturing	Other
	number										\$'000				
1962															
Newfoundland	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
New Brunswick	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Quebec	x	x	—	—	x	x	x	—	x	x	x	—	x	x	x
Ontario	187	104	3	1	61	29	71	13	322	147	889	22	520	399	1,830
Manitoba	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Saskatchewan	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Alberta	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
British Columbia	x	x	—	—	x	x	x	—	x	x	x	—	x	x	x
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	225	129	3	1	80	44	88	13	396	187	1,064	22	669	487	2,243
1963															
Newfoundland	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
New Brunswick	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Quebec	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Ontario	196	105	—	—	48	38	58	12	302	155	1,011	—	490	448	1,948
Manitoba	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Saskatchewan	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Alberta	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
British Columbia	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	240	129	—	—	61	50	75	12	376	191	1,227	—	627	540	2,394

TABLE 3 A. Production and Related Workers,—Manufacturing Activity, by Months, 1962 and 1963

Month	Establishments reporting monthly detail			
	1962		1963	
	Male	Female	Male	Female
	number			
January	216	124	243	132
February	216	124	241	126
March	222	126	238	128
April	221	129	238	127
May	223	129	238	131
June	235	137	244	137
July	231	132	236	133
August	222	136	236	129
September	222	122	240	130
October	224	127	243	128
November	230	125	250	125
December	230	126	247	125
Average for establishments reporting monthly detail (collected only for large establishments)	225	129	240	129
Average for small establishments (only annual averages collected) .....	...	...	...	...
Average for all establishments	225	129	240	129

TABLE 4. Industry Inventories, 1963

Province	Manufacturing				Non-manufacturing	Total inventories
	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total manufacturing	Products or materials purchased for resale	
	book value \$'000					
Opening:						
Newfoundland	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—
New Brunswick	—	—	—	—	—	—
Quebec	x	x	x	x	x	x
Ontario	863	209	290	1,363	2	1,365
Manitoba	—	—	—	—	—	—
Saskatchewan	—	—	—	—	—	—
Alberta	—	—	—	—	—	—
British Columbia	x	x	x	x	x	x
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	1,193	209	387	1,790	17	1,806
Closing:						
Newfoundland	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—
New Brunswick	—	—	—	—	—	—
Quebec	x	x	x	x	x	x
Ontario	907	222	319	1,447	2	1,449
Manitoba	—	—	—	—	—	—
Saskatchewan	—	—	—	—	—	—
Alberta	—	—	—	—	—	—
British Columbia	x	x	x	x	x	x
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	1,267	222	384	1,873	12	1,885

TABLE 5. Purchased Fuel and Electricity Used in Manufacturing Activity, 1962 and 1963

Description	1962		1963	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
1. Large establishments which reported commodity detail:				
Bituminous coal:				
(a) From Canadian mines	ton	—	—	—
(b) Imported	"	—	266	6
Sub-bituminous coal (from Alberta mines only)	"	—	—	—
Anthracite coal	"	357	8	—
Lignite coal	"	—	—	—
Coke	"	—	—	—
Gasoline (including gasoline used in cars and trucks) ..	Imp. gal.	4,892	2	3,960
Fuel oil including kerosene or coal oil	"	215,131	24	236,757
Wood	cord	—	—	—
Gas:				
(a) Liquefied petroleum gases	Imp. gal.	—	—	15,874
(b) Other manufactured gas	M cu. ft.	—	—	—
(c) Natural gas	"	1,629	1	368
Other fuel		—	—	—
Electricity purchased	kwh.	1,607,499	25	1,872,914
Steam purchased		—	—	—
2. Estimate for small establishments:				
Fuel and electricity		4	—	5
3. All establishments:				
Total fuel and electricity used		64	—	70

TABLE 6. Materials and Supplies - Manufacturing Activity, 1962 and 1963

Description	1962		1963	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
1. Materials used:				
Ribbon cloth, imported:				
(a) Cotton .....	...	491	...	490
(b) Other fibres .....	...	181	...	228
Paper, carbonizing:				
(a) Domestic	ton 1,782	836	1,844	828
(b) Imported	" 693	769	703	752
Paper, other	" 674	294	704	238
Wax, carnauba	lb. 258,480	160	270,420	142
Wax, other	" 587,573	102	595,921	94
Carbon black	" 211,344	44	263,490	58
Colours and dyes	" 330,196	381	350,403	417
Ribbon spools .....	...	120	...	135
Mylar and polyethylene film .....	...	176	...	-
Carbon and ribbon inks	lb. 54,050	73	57,333	49
Oils	gal. 59,846	24	64,647	26
All other materials and components used ¹ .....	...	956	...	968
2. Containers and other packaging materials and supplies used .....	...	219	...	147
3. Operating, maintenance and repair supplies used (excluding fuel) .....	...	76	...	80
4. Amount paid out to others for work done on materials owned by establishments .....	...	-	...	-
Totals .....	...	4,653	...	4,653

¹ No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. These estimated costs were \$263,363 in 1962 and \$426,664 in 1963.

TABLE 7. Shipments of Goods of Own Manufacture, 1962 and 1963

Description	Value	
	1962	1963
	\$'000	
1. Products:		
Carbon paper, all types ¹	8,400	8,888
Ribbons, office equipment (typewriter, etc.) ¹		
All other products		
2. Amount received in payment for work done on materials and products owned by others		
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above	(10)	(13)
Net adjustment for establishments receiving progress payments	-	-
Total adjusted value of shipments and work done	8,390	8,875

¹ See Table 8.

TABLE 8. Shipments of Selected Goods of Own Manufacture - All Industries, 1962 and 1963
(Includes shipments from other industries which manufacture, as a secondary activity, the commodities listed)

Description	Value	
	1962	1963
	\$'000	
Carbon paper, regular	2,586	2,512
Carbon paper, one-time	2,136	2,491
Ribbons, office equipment (typewriter, etc.)	2,495	2,738

List of Establishments classified to this Industry, 1963

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

Name	Location
Quebec:	
Budge Carbon and Ribbons Ltd.	529, Cathedral St., Montréal 3
Kores Manufacturing Corporation	3465 Côte-De-Liesse Rd., Montréal 9
Mid-city Ribbon and Carbon Mfg. Ltd.	420 Lagauchetiere W., Montréal
Ontario:	
Atlas Carbon and Ribbon Co. Ltd.	431 Dundas St. E., Toronto 2B
Burroughs Business Machines Ltd.	35 Bertrand Ave., Scarborough
Canada Carbon and Ribbon Co. Ltd.	55 Bridgeland Ave., Toronto 19
Capital Carbon and Ribbon Co. Ltd.	120 Deschamps St., Eastview
Peerless Carbon and Ribbon Co. Ltd.	100 Industry St., Toronto 15
Underwood, John (Canada) Ltd.	90 Richmond St. E., Toronto
British Columbia:	
Kolok Pacific Carbon & Ribbon Ltd.	Granville Island, Vancouver 9

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 58 (4 digit) sub classes. At the Canada level, principal statistics are collected and compiled for 178 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 activity

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. 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. 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.). 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 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 materials and fuel and electricity consumed from the value of production (value of shipments 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

purchased for re-sale) and the cost of other 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 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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