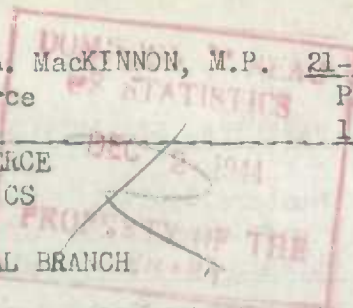


DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS
CENSUS OF INDUSTRY
MINING, METALLURGICAL AND CHEMICAL BRANCH
OTTAWA - CANADA



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ANNUAL INDUSTRY REPORT

CHEMICALS AND ALLIED PRODUCTS GROUP

THE INKS INDUSTRY, 1943

Output of printing inks in 1943 was reported at 10,410,295 pounds valued at \$3,510,822 as against 10,390,510 pounds at \$3,683,455 for last year, and the value of writing inks was \$556,627 compared with \$411,780 in 1942.

Printing inks were manufactured in 18 different plants in 1943 distributed by provinces, as follows: 3 in Quebec, 14 in Ontario and 1 in British Columbia. The total production of these concerns was valued at \$3,771,979 including some printers' rollers and other products as well as printing inks. Employees numbered 434 and salaries and wages for the year amounted to \$1,102,570. Materials for manufacturing cost \$1,506,709 and fuel and electricity cost \$36,645 delivered at the works. Output included 10,410,295 pounds of printing inks at \$3,510,822, printers' rollers at \$197,076 and miscellaneous products worth \$64,081.

Four other establishments--1 in New Brunswick, 1 in Manitoba, and 2 in Quebec--made printers' rollers but no inks. Only 15 workers were employed in these plants and their total output valued at \$55,850 included rollers at \$49,719. Including the output from concerns which made printing inks as well as rollers, the total production of the latter was \$246,795 in 1943.

Writing inks were made in 3 factories in Quebec, 5 in Ontario, 1 in Manitoba and 1 in British Columbia, a total of 10 establishments, which employed 122 persons and made goods valued at \$329,636. Production included writing inks at \$556,627, mucilage and paste at \$108,268 and miscellaneous articles at \$164,741.

For the entire group, there were 32 establishments which employed 571 workers and produced goods valued at \$4,657,465.

Imports of inks in 1943 included 436,048 pounds of printing inks valued at \$224,950, 4,428 pounds of rotogravure inks at \$2,184, and writing inks valued at \$36,948.

Table 1 - PRINCIPAL STATISTICS OF THE INKS INDUSTRY, 1930-1943

Year	Number of plants	Capital employed \$	Average number of employees	Salaries and wages \$	Cost of fuel and electricity at works \$	Cost of materials at works \$	Gross selling value of products at works \$
1930 ..	22	2,457,836	376	748,704	26,036	995,253	2,559,316
1931 ..	23	2,319,662	370	709,375	26,320	762,112	2,309,062
1932 ..	24	2,495,373	373	671,625	30,567	737,023	2,153,632
1933 ..	28	2,398,155	394	643,063	31,313	758,700	2,106,436
1934 ..	28	2,585,617	438	705,792	32,539	959,826	2,411,001
1935 ..	31	2,723,672	495	777,281	35,461	1,081,695	2,886,853
1936 ..	33	2,965,168	533	855,722	37,863	1,225,072	3,082,042
1937 ..	31	2,921,173	520	882,449	37,053	1,278,720	3,270,506
1938 ..	31	2,764,654	530	918,535	38,108	1,250,000	3,180,990
1939 ..	33	2,944,271	543	956,165	41,842	1,465,418	3,454,951
1940 ..	33	2,671,482	585	1,076,473	47,604	1,601,868	3,799,179
1941 ..	33	3,164,648	623	1,204,263	47,454	2,264,748	4,774,284
1942 ..	34	3,115,656	596	1,221,692	45,802	2,089,757	4,797,245
1943 ..	32	3,041,328	571	1,283,869	41,837	1,920,857	4,657,465

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

Table 2 - PRINCIPAL STATISTICS, BY SUB-GROUPS, 1939-1943

Year	Number of plants	Capital employed \$	Average number of employees	Salaries and wages \$	Cost of fuel and electricity at works \$	Cost of materials at works \$	Gross selling value of products at works \$
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PRINTING INKS AND PRINTERS' ROLLERS

1939 ..	22	2,613,396	448	854,849	37,406	1,245,275	2,997,107
1940 ..	22	2,355,317	487	968,988	42,852	1,362,563	3,319,895
1941 ..	22	2,825,805	516	1,082,859	42,924	1,935,259	4,142,474
1942 ..	22	2,773,084	485	1,086,350	41,845	1,751,840	4,117,628
1943 ..	22	2,683,400	449	1,131,283	37,534	1,516,947	3,827,829

WRITING INKS

1939 ..	11	330,875	95	101,316	4,436	220,143	457,844
1940 ..	11	316,165	98	107,485	4,752	239,305	479,284
1941 ..	11	338,843	107	121,404	4,530	329,489	631,810
1942 ..	12	342,572	111	135,342	3,957	337,917	679,617
1943 ..	10	357,928	122	152,586	4,303	403,910	829,636

TOTAL

1939 ..	33	2,944,271	543	956,165	41,842	1,465,418	3,454,951
1940 ..	33	2,671,482	535	1,076,473	47,604	1,601,868	3,799,179
1941 ..	33	3,164,648	623	1,204,263	47,454	2,264,748	4,774,284
1942 ..	34	3,115,656	596	1,221,692	45,802	2,089,757	4,797,245
1943 ..	32	3,041,328	571	1,283,869	41,837	1,920,857	4,657,465

Table 3 - PRINCIPAL STATISTICS, BY PROVINCES, 1942 and 1943

Year	Number of plants	Capital employed \$	Average number of employees	Salaries and wages \$	Cost of fuel and electricity at works \$	Cost of materials at works \$	Gross selling value of products at works \$
Quebec	8	393,698	89	146,949	3,480	303,574	665,400
Ontario	21	2,620,740	479	1,041,638	40,987	1,712,961	4,004,555
Manitoba	2)						
New Brunswick	1)	101,218	28	35,105	1,335	75,222	127,290
British Columbia ...	2)						
CANADA	34	3,115,656	596	1,221,692	45,802	2,089,757	4,797,245
<u>1943</u>							
Quebec	8	406,851	94	159,051	3,489	339,825	716,405
Ontario	19	2,541,003	449	1,087,602	36,991	1,512,767	3,820,140
Manitoba	2)						
New Brunswick	1)	93,474	28	37,216	1,357	68,265	120,920
British Columbia ...	2)						
CANADA	32	3,041,328	571	1,283,869	41,837	1,920,357	4,657,465

Table 4 - CAPITAL EMPLOYED, BY PROVINCES, 1942 and 1943

Province	Present value of land, buildings, machinery, tools and other equipment \$	Value of Inventories			Cash, bills and accounts receivable, prepaid expenses, etc. \$	TOTAL CAPITAL EMPLOYED \$
		Raw materials, fuel and other supplies on hand and stocks in process \$	Finished products on hand \$			
<u>1942</u>						
Quebec	127,400	104,804	28,147	132,347	393,698	
Ontario	968,059	743,013	277,044	632,624	2,620,740	
Other provinces	48,235	33,678	7,435	11,370	101,218	
CANADA	1,144,694	881,495	312,626	776,841	3,115,656	
<u>1943</u>						
Quebec	119,167	108,092	27,767	151,825	406,851	
Ontario	985,691	628,467	267,550	659,295	2,541,003	
Other provinces	40,789	28,696	5,883	18,107	93,474	
CANADA	1,145,646	765,255	301,200	829,227	3,041,328	

Table 5 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1942 and 1943

Province	Average Number of Employees				TOTAL	Salaries \$	Wages \$	TOTAL SALARIES and WAGES \$
	On Salaries		On Wages					
	Male	Female	Male	Female				
1 9 4 2								
Quebec	16	12	38	23	89	61,575	85,374	146,949
Ontario	153	54	241	31	479	631,691	409,947	1,041,638
Other provinces	8	2	17	1	28	17,163	15,957	33,105
CANADA	177	68	296	55	596	710,434	511,258	1,221,692
1 9 4 3								
Quebec	17	13	38	26	94	68,897	90,154	159,051
Ontario	127	54	225	43	449	661,049	426,553	1,087,602
Other provinces	8	2	14	4	28	19,501	17,715	37,216
CANADA	152	69	277	73	571	749,447	534,422	1,283,869

Table 6 - WAGE-EARNERS, BY MONTHS, 1942 and 1943 (Number on payroll on the last work day of each month)

Month	1 9 4 2			1 9 4 3		
	Male	Female	TOTAL	Male	Female	TOTAL
	No.	No.	No.	No.	No.	No.
January	327	50	377	281	53	334
February	320	49	369	283	60	343
March	312	51	363	279	64	343
April	306	52	358	274	72	346
May	299	53	352	263	71	334
June	297	52	249	286	81	367
July	297	54	351	280	82	362
August	288	59	347	281	83	364
September	279	60	339	267	74	341
October	271	56	327	268	76	344
November	271	55	326	278	85	363
December	273	54	327	279	87	386
AVERAGE	296	55	351	277	73	350

Table 7 - HOURS WORKED PER WEEK, BY WAGE-EARNERS, 1942 and 1943 (In one week of month of highest employment; overtime included)

Hours worked per week	1 9 4 2		1 9 4 3	
	Male	Female	Male	Female
	No.	No.	No.	No.
30 hours or less	7	2	13	10
31-43 hours	7	6	12	12
44 hours	74	8	73	13
45-47 hours	34	19	59	48
48 hours	114	24	79	5
49-50 hours	15	1	10	...
51-54 hours	44	4	26	7
55 hours	2	...	1	...
56-64 hours	28	...	23	...
65 hours and over	9	...	11	...
TOTAL	334	64	307	95
Total wages paid in selected week \$	9,463	941	9,142	1,463

Table 8 - FUEL AND ELECTRICITY USED, 1942 and 1943

Kind	Unit of measure	1 9 4 2		1 9 4 3	
		Quantity	Cost at works	Quantity	Cost at works
		\$		\$	
Bituminous coal—Canadian	ton	130	1,067	694	6,189
Imported	ton	1,342	11,132	745	6,652
Anthracite coal	ton	211	1,750	115	1,235
Coke	ton	2	26	7	92
Gasoline	Imp. gal.	4,364	1,324	6,372	2,170
Kerosene	Imp. gal.	896	164	626	126
Fuel oil	Imp. gal.	20,885	1,823	695	87
Wood	cord	15	119	12	104
Gas—Manufactured	M cu.ft.	1,114	1,102	927	985
Other fuel .....	...	...	60	...	60
Electricity purchased ...	K. W. H.	1,534,806	27,235	1,398,069	24,137
TOTAL .....	...	...	45,802	...	41,837

Table 9 - POWER EQUIPMENT, 1942 and 1943

Kind	1 9 4 2		1 9 4 3	
	Number of units	Total rated horse power	Number of units	Total rated horse power
Steam engines and steam turbines	1	5	...	...
Gasoline, gas and oil engines	1	4	1	4
Electric motors operated by purchased power	306	2,116	308	2,267
TOTAL	308	2,125	309	2,271
Stationary boilers	8	272	7	266

Table 10 - MATERIALS USED IN MANUFACTURING, 1942 and 1943

Material	Unit of measure	1 9 4 2		1 9 4 3	
		Quantity	Cost at works	Quantity	Cost at works
		\$		\$	
Carbon black	lb.	831,383	68,627	832,509	68,203
Dry colours	lb.	1,404,904	652,770	1,251,151	607,649
Glue	lb.	77,174	25,464	74,405	20,939
Glycerine	lb.	100,711	20,168	144,283	26,148
Gums	lb.	501,921	72,218	461,785	72,244
Oils—Castor	gal.	13,705	40,615	3,262	3,493
Linseed	gal.	54,448	55,134	55,029	63,867
Other	gal.	...	104,705	...	83,537
Starch	lb.	133,110	10,126	129,083	9,085
Varnishes	Imp. gal.	293,946	367,071	205,921	262,212
Wax of all kinds	lb.	34,054	13,750	41,859	12,734
All other materials .....	...	...	453,461	...	451,760
Bottles, tops, brushes, etc.	...	...	205,648	...	238,986
TOTAL .....	...	...	2,089,757	...	1,920,857

Table 11 - PRODUCTS MADE, 1942 and 1943

Product	1942		1943	
	Quantity	Selling value at works \$	Quantity	Selling value at works \$
Inks, printing (including inks for mimeographing and lithographing). lb.	10,390,510	3,683,455	10,410,295	3,510,822
Inks, writing	419,524	...	556,627
Printers' rollers and composition.	...	257,724	...	246,795
All other products (x)	436,542	...	343,221
TOTAL	4,797,245	...	4,657,465

(x) Includes carbon paper, mucilage, paste, typewriter ribbons, rubber stamp pads, stains, colours, and other commodities made as minor products by the ink manufacturers.

Table 12 - TOTAL PRODUCTION OF PRINTING INKS AND PRINTERS' ROLLERS IN CANADA, 1934-1943

Year	Printing Inks		Printers' rollers and composition \$
	Pounds	\$	
1934	8,476,108	1,349,573	196,255
1935	9,588,146	2,248,440	220,391
1936	9,805,286	2,387,307	244,745
1937	10,244,467	2,519,431	267,867
1938	9,353,410	2,448,710	255,784
1939	9,155,170	2,692,717	255,011
1940	9,793,866	2,984,333	277,391
1941	11,091,468	3,767,697	298,438
1942	10,390,510	3,683,455	257,724
1943	10,410,295	3,510,822	246,795

Table 13 - TOTAL PRODUCTION OF WRITING INKS IN CANADA, 1934-1943

Year	Selling value at works \$
1934	275,471
1935	251,987
1936	262,790
1937	268,952
1938	257,369
1939	271,374
1940	276,330
1941	380,129
1942	419,524
1943	556,627

LIST OF FIRMS IN THE INKS INDUSTRY, 1943

Name of Firm	Address
<u>(a) Writing Inks</u>	
The Carter's Ink Company of Canada Ltd.	4501 Drolet St., Montreal, Que.
La Cie Techno Chimique Masse	366 rue St. Joseph, Lachine, Que.
L. E. Waterman Co. Ltd.	263 St. James St., St. Lambert, Que.
Blue Ribbon Ink Company	623 Queen St. W., Toronto, Ont.
J. E. Poole Company	18 Holly St., Toronto, Ont.
L. A. Reeves Ink Co.	26 Soho St., Toronto, Ont.
Blue Bird Ink Co. Ltd.	124 Richmond St. W., Toronto, Ont.
Markrite Manufacturing Co.	356 Bay St., Toronto, Ont.
Reliance Ink Co. Limited	520 McGee St., Winnipeg, Man.
Peerless Products Limited	2233 Yukon St., Vancouver, B.C.

(b) Printing Inks and Printers' Rollers

(x) Ensley B. Johnson	45 Kennedy St., Saint John, N.B.
Frontenac Ink Works Ltd.	989 Cote St., Montreal, Que.
(x) J. S. Robertson	175 Lagachetiere St. W., Montreal, Que.
Bedwell & Company	3415 Colonial Ave., Montreal, Que.
(x) Printcraft Supply Co.	130 McGill St., Montreal, Que.
Thorp-Hambreck Co. Limited	2720 St. Patrick St., Montreal, Que.
The Ault & Wiborg Co. of Canada Ltd.	82 Peter St., Toronto, Ont.
Charles Bush Limited	105 Davenport Road, Toronto, Ont.
The Canada Printing Ink Company Limited	15 Duncan St., Toronto, Ont.
Dominion Printing Ink & Colour Co. Limited	128 Pears Ave., Toronto, Ont.
Manton Brothers Limited	97-105 Elizabeth St., Toronto, Ont.
E. Winstone & Sons (Canada) Limited	140 Kendal Ave., Toronto, Ont.
Sinclair and Valentine Co. of Canada Ltd.	233 Richmond St. W., Toronto, Ont.
Canadian Fine Color Co. Limited	240 Logan Ave., Toronto, Ont.
Hoops Printing Ink Company Ltd.	128 Pears Ave., Toronto, Ont.
Federal Inks Limited	40 St. Patrick St., Toronto, Ont.
The Mimeograph Company Ltd.	189 John St., Toronto, Ont.
The General Printing Ink Corp. of Canada Ltd.	821 Queen St. E., Toronto, Ont.
The Toronto Star Limited	80 King St. W., Toronto, Ont.
Phoenix Ink Works	44 Lombard St., Toronto, Ont.
(x) Printers' Roller Co.	175 McDermot Ave., Winnipeg, Man.
Columbia Printing Ink & Roller Co. Ltd.	1350 Hornby St., Vancouver, B.C.

(x) Does not make ink; makes printers' rollers.

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