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

Dominion Statistician: S. A. Cudmore, M.A. (Oxon.), F.S.S., F.R.S.C.
Chief - Mining, Metallurgical and Chemical Branch: W. H. Losee, B.Sc.
Statistician - Metal and Chemical Products: H. McLeod, B.Sc.

ANNUAL INDUSTRY REPORT

CHEMICALS AND ALLIED PRODUCTS GROUP

THE INKS INDUSTRY, 1942

Output of printing inks in 1942 was reported at 10,390,510 pounds valued at \$3,683,455 as against 11,091,468 pounds at \$3,767,697 for last year, and the value of writing inks was \$411,780 compared with \$380,129 in 1941.

Printing inks were manufactured in 13 different plants in 1942 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 \$4,065,263 including some printers' rollers and other products as well as printing inks. Employees numbered 369 and salaries and wages for the year amounted to \$1,055,764. Materials for manufacturing cost \$1,742,569 and fuel and electricity cost \$40,926 delivered at the works. Output included 10,390,510 pounds of printing inks at \$3,683,455, printers' rollers at \$219,802 and miscellaneous products worth \$328,398.

Four other establishments, 1 in New Brunswick, 1 in Manitoba, and 2 in Quebec, made printers' rollers only. Only 16 workers were employed in these plants and their output of rollers was valued at \$45,666. Including the output from concerns which made printing inks as well as rollers, the total production of the latter was \$265,468 in 1942.

Writing inks were made in 3 factories in Quebec, 7 in Ontario, 1 in Manitoba and 1 in British Columbia, a total of 12 establishments, which employed 111 persons and made goods valued at \$679,617. Production included writing inks at \$411,780, mucilage and paste at \$93,884 and miscellaneous articles at \$173,953.

For the entire group, there were 34 establishments which employed 596 workers and produced goods valued at \$4,797,245.

Table 1 - PRINCIPAL STATISTICS OF THE INKS INDUSTRY, 1930-1942

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

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, 1938-1942

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 \$
<u>PRINTING INKS AND PRINTERS' ROLLERS</u>							
1938 ...	21	2,436,769	435	810,937	33,771	1,038,413	2,759,149
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	1,335,259	4,142,474
1942 ...	22	2,773,084	485	1,086,350	41,845	1,751,840	4,117,628
<u>WRITING INKS</u>							
1938 ...	10	327,885	95	107,593	4,337	211,587	421,841
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
<u>TOTAL</u>							
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

Table 3 - PRINCIPAL STATISTICS, BY PROVINCES, 1941 and 1942

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
		\$		\$	\$	\$	\$
<u>1941</u>							
Quebec	8	337,444	89	135,373	4,355	326,416	662,543
Ontario	20	2,739,795	507	1,036,866	41,930	1,877,857	4,003,489
Manitoba	2)						
New Brunswick ..	1)	87,409	27	32,024	1,169	60,475	108,252
British Columbia	2)						
CANADA	33	3,164,648	623	1,204,263	47,454	2,264,748	4,774,284
<u>1942</u>							
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	33,105	1,335	73,222	127,290
British Columbia	2)						
CANADA	34	3,115,656	596	1,221,692	45,802	2,089,757	4,797,245

Table 4 - CAPITAL EMPLOYED, BY PROVINCES, 1941 and 1942

Provinces	Present value of lands, buildings, machinery, tools and other equipment	Value of inventories			Operating capital (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>1941</u>						
Quebec	121,727	91,320	20,747	103,650		337,444
Ontario	1,045,497	727,653	274,842	691,803		2,739,795
Other provinces	38,408	25,531	5,728	17,747		87,409
CANADA	1,205,632	844,504	301,312	813,200		3,164,678
<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	11,870		101,218
CANADA	1,144,694	881,495	312,626	776,841		3,115,656

Table 5 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1941 and 1942

Provinces	Average Number of Employees					Salaries \$	Wages \$	TOTAL SALARIES and WAGES \$
	On salaries		On wages		TOTAL			
	Male	Female	Male	Female				
<u>1 9 4 1</u>								
Quebec	19	13	37	20	89	64,400	70,973	135,373
Ontario	143	57	283	24	507	623,815	413,051	1,036,866
Other provinces	9	2	16	...	27	17,534	14,490	32,024
CANADA	171	72	336	44	623	705,749	498,514	1,204,263
<u>1 9 4 2</u>								
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	17,168	15,937	33,105
CANADA	177	68	296	55	596	710,434	511,258	1,221,692

Table 6 - WAGE-EARNERS, BY MONTHS, 1941 and 1942 (Number on payroll on the last work day of each month)

Months	1 9 4 1			1 9 4 2		
	Male	Female	TOTAL	Male	Female	TOTAL
	No.	No.	No.	No.	No.	No.
January	312	31	343	327	50	377
February	321	32	353	320	49	369
March	324	33	357	312	51	363
April	316	37	353	306	52	358
May	332	42	374	299	53	352
June	334	44	378	297	52	349
July	341	47	388	297	54	351
August	346	53	399	288	59	347
September	343	51	394	279	60	339
October	338	51	389	271	56	327
November	343	52	395	271	55	326
December	344	52	396	273	54	327
AVERAGE	333	44	377	296	55	351

Table 7 - HOURS WORKED PER WEEK, BY WAGE-EARNERS, 1941 and 1942 (In one week of month of highest employment; overtime included)

Hours worked per week	1 9 4 1		1 9 4 2	
	Male	Female	Male	Female
	No.	No.	No.	No.
30 hours or less	5	...	7	2
31-43 hours	5	...	7	6
44 hours	69	7	74	8
45-47 hours	35	13	34	19
48 hours	225	19	114	24
49-50 hours	2	...	15	1
51-54 hours	4	...	44	4
55 hours .....	...	...	2	...
56-64 hours	14	6	23	...
65 hours and over	5	...	9	...
TOTAL	364	45	334	64
Total wages paid in selected week \$	12,274	630	9,463	941

Table 8 - FUEL AND ELECTRICITY USED, 1941 and 1942

Kinds	Unit of measure	1 9 4 1		1 9 4 2	
		Quantity	Cost at works	Quantity	Cost at works
		\$		\$	
Bituminous coal - Canadian	ton	137	965	130	1,067
Imported	ton	1,198	9,050	1,342	11,132
Anthracite coal	ton	219	1,626	211	1,750
Coke	ton	5	70	2	26
Gasoline	Imp. gal.	18,257	4,573	4,364	1,324
Kerosene	Imp. gal.	2,474	411	896	164
Fuel oil	Imp. gal.	34,527	2,616	20,885	1,823
Wood	cord	18	106	15	119
Gas - Manufactured	M cu.ft.	1,191	1,199	1,114	1,102
Other fuel .....	...	...	60	...	60
Electricity purchased	K.W.H.	1,660,158	26,708	1,534,806	27,235
TOTAL .....	...	...	47,454	...	45,802

Table 9 - POWER EQUIPMENT, 1941 and 1942

Kinds	1 9 4 1		1 9 4 2	
	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	303	2,053	306	2,116
TOTAL	304	2,057	308	2,125
Stationary boilers	6	261	8	272

Table 10 - MATERIALS USED IN MANUFACTURING, 1941 and 1942

Materials	Unit of measure	1 9 4 1		1 9 4 2	
		Quantity	Cost at works	Quantity	Cost at works
		\$		\$	
Carbon black	lb.	211,863	66,366	831,383	68,627
Dry colours	lb.	1,749,305	736,770	1,404,904	652,770
Glue	lb.	93,660	26,027	77,174	25,464
Glycerine	lb.	220,725	35,219	100,711	20,168
Gums	lb.	470,963	64,517	501,921	72,218
Oils - Castor	gal.)			13,705	40,615
Linseed	gal.)	677,640	160,935	54,448	55,134
Other	gal.)			...	104,705
Starch	lb.	126,971	6,879	133,110	10,126
Varnishes	Imp. gal.	425,785	272,737	293,946	367,071
Wax of all kinds	lb.	37,650	13,115	34,054	13,750
All other materials .....	...	...	638,036	...	453,461
Bottles, tops, brushes, etc.	...	...	244,147	...	205,648
TOTAL .....	...	...	2,264,748	...	2,089,757



Inks

Table 11 - PRODUCTS MADE, 1941 and 1942

Products	1 9 4 1		1 9 4 2	
	Quantity	Selling value at works \$	Quantity	Selling value at works \$
Inks, printing, mimeographing and lithographing	1b. 11,091,468	3,767,697	10,390,510	3,683,455
Inks, writing	380,129	...	419,524
Printers' rollers and composition	298,438	...	257,724
All other products (x)	328,020	...	436,542
TOTAL	4,774,284	...	4,797,245

(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, 1933-1942

Year	Printing Inks		Printers' rollers and composition \$
	Pounds	\$	
1933	6,874,128	1,659,641	184,561
1934	8,476,108	1,949,573	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

Table 13 - TOTAL PRODUCTION OF WRITING INKS IN CANADA, 1933-1942

Year	Selling value at works \$
1933	285,694
1934	273,471
1935	251,987
1936	262,790
1937	268,952
1938	257,369
1939	271,374
1940	276,330
1941	380,129
1942	419,524