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THE PAINTS, PIGMENTS AND
VARNISHES INDUSTRY
IN
CANADA
1941



OTTAWA
1943



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ANNUAL INDUSTRY REPORT

CHEMICALS AND ALLIED PRODUCTS GROUP

THE PAINTS, PIGMENTS AND VARNISHES INDUSTRY, 1941.

Manufacturers of paints, pigments and varnishes reported production valued at \$40,183,625 in 1941 against \$30,109,130 in 1940, a gain of 33 per cent.

A total of 94 plants operated in this industry during 1941, distributed by provinces as follows: 50 in Ontario, 26 in Quebec, 9 in British Columbia, 5 in Manitoba, 1 in Saskatchewan, 1 in Alberta and 1 each in Nova Scotia and New Brunswick. Works in Ontario accounted for almost 47 per cent of the total production and establishments in Quebec accounted for about 41 per cent.

Capital employed by the establishments included in this group totalled \$31,911,306 as against \$23,893,421 in the previous year. The value of lands, buildings and machinery was given at \$11,083,733, inventories at \$11,713,933 and cash on hand, bills and accounts receivable at \$9,113,640. Forty-seven per cent of the reported investment was for plants located in Quebec and 33 per cent for works in Ontario.

Total production in Canada of some of the leading items was as follows in 1941: 6,966,681 gallons of ready mixed paints at \$16,021,147; 3,319,148 gallons of varnishes at \$4,917,166; 2,138,401 gallons of enamels at \$6,300,329; 1,493,523 gallons of cellulose lacquers at \$3,826,094; 10,256,588 pounds of dry colours at \$1,282,632; 6,309,152 pounds of paste paints and fillers at \$910,533; 1,237,840 pounds of colours in japan or oil at \$277,292; 10,305,161 pounds of water paints and size at \$739,304; 366,181 gallons of stains at \$639,055; 9,989,732 pounds of putty at \$430,336; 1,101,344 gallons of pyroxylin thinners at \$1,118,333.

Table 1 - PRINCIPAL STATISTICS OF THE PAINTS, PIGMENTS AND VARNISHES INDUSTRY, 1929 - 1941.

Years	No. 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
		\$		\$	\$	\$	\$
1929	69	26,471,976	2,851	4,260,019	551,664	12,414,829	27,103,465
1930	78	26,212,328	2,835	4,507,993	300,355	11,094,435	23,966,502
1931	75	24,985,476	2,780	4,281,361	249,933	7,974,352	18,536,463
1932	71	23,978,252	2,658	3,858,813	252,272	6,295,860	14,912,383
1933	78	22,438,251	2,540	3,464,947	247,067	6,158,836	14,896,693
1934	79	22,816,098	2,859	3,825,538	274,567	7,949,941	18,618,571
1935	80	22,709,466	3,060	4,242,116	289,345	9,610,743	20,341,407
1936	78	23,274,558	3,124	4,423,337	288,915	10,817,694	22,651,225
1937	82	23,853,360	3,324	4,827,199	305,775	12,307,011	25,531,117
1938	87	24,252,436	3,412	5,003,001	307,789	11,333,307	24,317,532
1939	93	26,548,301	3,540	5,311,616	331,316	12,030,774	25,855,506
1940	93	28,898,421	3,750	5,309,553	390,511	15,232,488	30,109,130
1941	94	31,911,306	4,225	6,843,311	454,671	21,495,593	40,133,625
Per cent change, 1941 from 1940	..	+ 10.4	+ 12.7	+ 17.8	+ 16.4	+ 41.1	+ 33.5

Table 2 - PRINCIPAL STATISTICS, BY PROVINCES, 1940 and 1941.

Provinces	No. 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>1 9 4 0</u>							
Quebec	28	14,227,145	1,462	2,272,711	180,116	6,068,087	12,100,296
Ontario	48	10,408,838	1,779	2,867,517	171,781	7,151,042	14,236,527
Manitoba	5	1,518,769	203	275,114	20,956	836,709	1,456,562
British Columbia	8	2,073,159	208	292,314	7,738	842,588	1,611,048
Nova Scotia	1)						
New Brunswick	1)	670,450	93	101,397	9,920	554,262	654,697
Saskatchewan	1)						
Alberta	1)						
CANADA	93	28,898,421	3,750	5,309,553	390,511	15,232,488	30,109,130
<u>1 9 4 1</u>							
Quebec	26	15,015,303	1,394	2,572,230	207,454	3,090,717	16,305,335
Ontario	50	12,106,261	2,052	3,505,862	199,402	3,373,681	18,331,707
Manitoba	5	1,600,725	247	300,477	25,281	998,370	1,713,040
British Columbia	9	2,400,257	231	346,211	10,729	1,111,435	2,335,563
Nova Scotia	1)						
New Brunswick	1)	733,262	101	113,371	11,305	421,095	937,425
Saskatchewan	1)						
Alberta	1)						
CANADA	94	31,911,306	4,225	6,343,311	454,671	21,495,593	40,133,625

Table 3 - CAPITAL EMPLOYED, BY CLASSES AND BY PROVINCES, 1940 and 1941.

Provinces	Present value of lands, buildings, machinery, tools and other equip- ment	Inventory value of materials on hand, stocks in process, finished products and miscellaneous supplies on hand	Operating capital (cash, bills and accounts receivable, prepaid expenses, etc.)	TOTAL CAPITAL EMPLOYED
	\$	\$	\$	\$
<u>1940</u>				
Quebec	6,375,226	4,605,350	3,243,089	14,227,145
Ontario	3,903,714	3,772,923	3,027,261	10,408,898
Manitoba	795,801	528,059	194,929	1,518,769
British Columbia	637,961	707,154	723,044	2,073,159
Other provinces	549,302	170,723	149,920	670,450
CANADA	11,765,504	9,784,674	7,343,243	28,893,421
<u>1941</u>				
Quebec	6,033,154	5,115,941	3,366,708	15,015,803
Ontario	3,217,347	4,354,397	4,053,317	12,106,261
Manitoba	808,411	543,527	243,735	1,600,723
British Columbia	674,395	974,316	751,046	2,400,257
Other provinces	549,526	220,752	213,184	783,262
CANADA	11,083,733	11,712,955	9,113,640	31,911,308

Table 4 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1940 and 1941.

Provinces	Average number of employees					Salaries	Wages	TOTAL SALARIES and WAGES
	On salaries		On wages		TOTAL			
	Male	Female	Male	Female				
						\$	\$	\$
<u>1940</u>								
Quebec	499	134	744	35	1,462	1,320,071	952,640	2,272,711
Ontario	613	193	900	66	1,779	1,715,970	1,153,547	2,867,517
Manitoba	75	15	101	17	208	142,310	132,304	275,114
British Columbia	55	18	119	16	208	159,065	132,349	292,304
Other provinces	35	9	46	5	93	54,337	47,560	101,897
CANADA	1,277	374	1,910	189	3,750	3,390,653	2,413,300	5,809,553
<u>1941</u>								
Quebec	522	163	309	100	1,594	1,486,531	1,085,709	2,572,290
Ontario	642	252	1,059	39	2,052	2,001,959	1,303,203	3,305,862
Manitoba	102	15	110	20	247	161,069	139,408	300,477
British Columbia	62	24	126	19	231	174,351	171,860	346,211
Other provinces	32	11	52	6	101	63,329	55,142	113,971
CANADA	1,360	465	2,156	244	4,225	3,387,789	2,956,022	6,343,811

Table 5 - WAGE-EARNERS, BY MONTHS, 1940 and 1941 (Number on Pay-roll on the last work-day of each month)

Months	1 9 4 0			1 9 4 1		
	Male	Female	TOTAL	Male	Female	TOTAL
January	1,792	171	1,963	1,947	193	2,145
February	1,856	174	2,030	2,001	215	2,216
March	1,894	176	2,070	2,078	229	2,307
April	1,925	194	2,119	2,130	246	2,406
May	2,002	207	2,213	2,260	252	2,502
June	1,996	197	2,193	2,222	253	2,475
July	1,928	183	2,116	2,215	249	2,464
August	1,929	181	2,110	2,272	260	2,533
September	1,893	186	2,079	2,222	265	2,487
October	1,907	195	2,102	2,230	269	2,499
November	1,908	193	2,106	2,167	256	2,423
December	1,383	193	2,076	2,143	252	2,406
AVERAGE	1,910	189	2,099	2,156	244	2,400

Table 6 - HOURS WORKED PER WEEK BY WAGE-EARNERS, 1941 (In one week of month of highest employment; overtime is included)

Hours worked per week	1 9 4 0			1 9 4 1		
	Number of wage-earners			Number of wage-earners		
	Male	Female	TOTAL	Male	Female	TOTAL
30 hours or less	53	5	38	59	12	71
31 - 43 hours	343	64	407	361	39	400
44 hours	568	89	657	526	121	647
45 - 47 hours	356	35	391	265	31	296
48 hours	280	9	289	236	21	257
49 - 50 hours	165	1	166	300	7	307
51 - 54 hours	64	2	66	163	5	173
55 hours	25	1	26	65	11	76
56 - 64 hours	127	1	128	297	37	334
65 hours and over ...	78	9	87	110	5	115
TOTAL	2,049	216	2,265	2,387	239	2,626
Total wages paid during week	\$ 44,875	2,921	47,796	59,802	4,263	64,071

Table 7 - FUEL AND ELECTRICITY USED, 1940 and 1941.

Kinds	Unit of measure	1 9 4 0		1 9 4 1	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Bituminous coal - Canadian	ton	3,361	62,685	10,551	72,026
Imported	ton	12,104	37,001	11,979	86,049
Anthracite coal	ton	196	2,493	547	4,467
Lignite coal	ton	...	...	30	315
Coke	ton	1,898	20,619	2,446	27,502
Gasoline	Imp. gal.	32,665	8,316	63,921	17,926
Kerosene or coal oil	Imp. gal.	1,616	324	12,512	2,333
Fuel oil	Imp. gal.	520,128	35,408	300,231	60,394
Wood	cord	320	1,415	331	1,639
Gas - Manufactured	M cu. ft.	2,501	2,127	4,176	3,242
Natural	M cu. ft.	1,653	600	357	231
Other fuel	xxx	...	6,328	...	5,312
Electricity purchased	K. W. H.	12,537,513	163,195	13,751,263	173,235
TOTAL .....	\$	...	390,511	...	454,671

Table 8 - POWER EQUIPMENT, 1940 and 1941

	Ordinarily in use		In reserve or idle	
	Number of units	Total rated horse power	Number of units	Total rated horse power
<u>1 9 4 0</u>				
Steam engines	12	534	...	...
Gasoline, gas and oil engines	1	9	...	...
Total Primary Equipment	13	543	...	...
Electric motors run by purchased power	1,337	9,623	15	140
TOTAL	1,350	10,171	15	140
Stationary boilers	44	3,343	6	465
<u>1 9 4 1</u>				
Steam engines	11	378	...	...
Gasoline, gas and oil engines	1	9	...	...
Total Primary Equipment	12	387	...	...
Electric motors run by purchased power	1,474	9,562	37	381
TOTAL	1,486	9,949	37	381
Stationary boilers	43	3,316	7	555

Table 3 - MATERIALS USED IN MANUFACTURING, 1940 and 1941.

Materials	Unit of measure	1940		1941	
		Quantity	Cost at works	Quantity	Cost at works
Pigments, colours and fillers -					
Basic carbonate white lead, dry...	lb.	5,234,555	250,631	4,323,322	354,301
Basic carbonate white lead, in oil	lb.	1,296,566	103,433	1,423,000	123,470
Basic sulphate white lead,	lb.	127,267	11,704	222,231	13,872
Iron oxide pigments	lb.	2,222,760	112,826	3,203,324	127,326
Litharge	lb.	934,141	65,722	1,457,474	105,932
Lithopone	lb.	16,337,337	780,362	21,075,130	1,097,073
Metallic powders (aluminium, etc.)	lb.	367,803	135,379	332,438	242,133
Nitrocellulose	lb.	1,136,493	259,346	1,812,404	410,024
Red lead	lb.	1,124,366	94,273	1,225,175	111,606
Resins, synthetic	lb.	3,132,535	523,602	4,950,251	979,747
Titanium white, pure	lb.	2,227,242	244,245	3,076,430	560,321
Titanium pigments, reduced	lb.	3,341,512	271,415	5,325,375	443,970
Zinc oxide, pure	lb.	3,360,229	135,323	3,177,050	237,035
Zinc oxide, leaded, and zinc leads	lb.	4,174,348	227,646	4,510,335	317,840
Asbestine or talc	lb.	5,367,351	72,420	7,577,746	120,215
Barytes	lb.	3,231,747	71,422	4,906,229	112,780
Blanc fixe	lb.	99,422	3,373	162,532	3,010
Graphite	lb.	123,394	6,692	170,225	9,412
Kaolin or china clay	lb.	3,722,140	29,961	3,277,740	33,302
Satin white or gypsum	lb.	375,548	7,325	423,979	3,332
Silica or quartz	lb.	1,648,736	25,217	2,033,608	39,365
Whiting	lb.	14,756,537	165,162	15,662,667	202,547
Coal tar lakes	lb.	222,212	155,626	211,701	157,303
Chrome colours	lb.	1,739,510	310,255	2,270,872	464,089
Lampblack and other carbon blacks .	lb.	494,311	71,364	600,110	104,525
Ochres, siennas and umbers	lb.	1,149,896	62,636	922,990	58,335
Prussian blue	lb.	98,723	47,637	111,031	52,600
Ultramarine blue	lb.	155,054	23,161	127,125	42,104
Sodium bichromate	lb.	796,995	71,407	327,727	33,329
Sodium prussiate, yellow	lb.	235,364	35,132	354,432	49,739
Other dry colours	lb.	1,065,279	203,107	1,206,627	365,960
All other pigments, fillers and colours	lb.	2,094,645	142,567	4,232,216	177,865
Driers -					
Cobalt salts	lb.	89,352	23,111	74,445	39,349
Glue	lb.	372,400	66,776	399,905	63,427
Linoleate driers	lb.	14,707	4,331	14,345	4,406
Manganese salts	lb.	50,395	7,399	63,623	9,416
Resins	lb.	5,632,929	272,147	6,243,590	356,704
Resinate driers	lb.	15,452	4,897	15,389	4,060
Shellac	lb.	689,400	168,343	1,051,603	340,427
Other gums and waxes	lb.	1,339,021	177,464	2,022,392	236,562
All other driers	xxxx	422,979	69,265	456,442	106,262
Oils and solvents -					
Castor oil	Imp. gal.	65,299	40,346	173,175	247,316
Chinawood oil	lb.	4,326,738	1,131,813	2,658,264	1,032,062
Fish oils	Imp. gal.	181,249	37,372	130,720	72,541
Linseed oil, raw	Imp. gal.	1,327,551	1,039,762	1,531,304	1,070,761
Linseed oil, boiled	Imp. gal.	612,077	409,869	1,223,723	927,225
Perilla oil	lb.	3,457,670	417,353	3,026,223	453,217
Soya bean oil	Imp. gal.	34,356	64,314	95,272	92,224

Table 9 - MATERIALS USED IN MANUFACTURING, 1940 and 1941 (Concluded)

Materials	Unit of measure	1940		1941	
		Quantity	Cost at works \$	Quantity	Cost at works \$
<u>Oils and solvents (Con.) -</u>					
Other oils	Imp. gal.	313,082	268,364	458,811	395,081
Acetone	lb.	254,470	22,715	375,139	28,666
Acetic acid	lb.	1,127,441	52,549	1,433,533	72,321
Alcohol, ethyl	Proof gal.	264,317	149,532	349,873	245,533
Alcohol, wood (methyl hydrate)	Imp. gal.	135,907	103,122	222,790	190,047
Amyl acetate	lb.	391,803	126,562	1,127,372	173,676
Amyl alcohol	Imp. gal.	30,499	27,194	39,205	37,549
Asphalt and asphaltum ...	lb.	1,243,343	37,911	1,212,339	26,021
Benzol	Imp. gal.	76,522	26,267	77,153	25,262
Butyl alcohol	lb.	441,242	54,435	737,047	117,270
Butyl acetate	lb.	791,023	35,226	1,473,963	232,673
Creosote	Imp. gal.	33,454	16,553	44,892	18,140
Ethyl acetate	lb.	2,302,171	227,030	4,106,850	349,231
Petroleum distillates ...	Imp. gal.	4,770,245	744,111	6,160,624	1,251,535
Pitch, coal tar	lb.	1,254,943	22,826	1,425,020	30,701
Toluol	Imp. gal.	157,230	61,908	1,187,877	35,800
Turpentine.....	Imp. gal.	255,823	117,366	267,168	194,241
Varnishes	Imp. gal.	242,232	251,373	233,745	323,335
Xylol	Imp. gal.	104,012	59,272	226,931	104,310
Cans, cases, barrels, labels, etc.	xxx	...	2,010,650	...	2,595,617
All other materials, including pig lead	xxx	...	1,632,830	...	2,448,012
TOTAL .....	\$	...	15,232,438	...	21,495,593

Table 10 - PRODUCTS MADE, 1940 and 1941

Products	Unit of measure	1940		1941	
		Quantity	Selling value at works \$	Quantity	Selling value at works \$
Colours, dry	lb.	✓ 3,710,425	354,336	✓ 10,256,538	1,233,632
Colours in japan or oil ..	lb.	✓ 1,005,823	232,891	✓ 1,237,340	277,292
Enamels - Synthetic type .	Imp. gal.	✓ 1,232,440	3,931,365	✓ 1,421,214	4,433,227
Oil type	Imp. gal.	✓ 558,276	1,430,579	✓ 716,437	1,212,102
Lacquers - Cellulose, clear	Imp. gal.	✓ 322,436	333,124	✓ 697,337	1,359,256
Cellulose, pigmented	Imp. gal.	✓ 510,947	1,531,754	✓ 796,136	2,466,233
Paints, water(including size)	lb.	✓ 9,636,353	659,399	✓ 10,305,131	739,304
Paints, paste(including fillers)	lb.	✓ 5,935,257	753,198	✓ 6,809,152	910,533
Paints, ready mixed (including asphalt and tar, iron oxide, metallic and liquid fillers)	Imp. gal.	✓ 3,071,433	11,326,694	✓ 3,566,631	16,021,147
Stains - oil, spirit, varnish and creosote	Imp. gal.	✓ 233,344	492,932	✓ 236,131	639,055
Varnishes (including japans, shellac and driers)	Imp. gal.	✓ 2,670,723	3,297,353	✓ 3,319,143	4,917,166

Table 11 - PRODUCTS MADE, 1940 and 1941 (Concluded)

Products	Unit of measure	1 9 4 0		1 9 4 1	
		Quantity	Selling value at works	Quantity	Selling value at works
Wax, floor--paste	lb.	103,869	23,916	150,937	33,336
liquid	Imp.gal.	5,787	10,705	7,319	13,133
Oils--linseed, boiled, core, stand, blown and enamel ..	Imp.gal.	374,992	373,636	430,645	500,338
Paint and varnish removers.	Imp.gal.	63,346	133,133	62,536	126,440
Putty.....	lb.	3,375,605	353,234	9,339,732	430,336
Thinners, pyroxylin and paint	Imp.gal.	✓ 330,322	792,299	✓ 1,101,344	1,112,833
All other products (x)	XX	...	2,143,432	...	2,985,457
TOTAL	XX	...	30,100,120	...	40,133,625

(x) Includes data for items reported by less than 3 firms, such as, white lead, red lead, litharge, caulking material, auto polish, furniture polish, etc.



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