

661. ~~7~~
C1646-201 c3
D
1954

cm

Historical File Copy



CANADA

The Royal Bank of Canada
LIBRARY
AUG 7 1957
Montreal, P. Q. Canada

STATISTICS
CANADA
APR 12 1957
STATISTIQUE
CANADA
LIBRARY
BIBLIOTHÈQUE

CHEMICALS AND ALLIED PRODUCTS

1954

General Review

Published by Authority of
The Honourable Gordon Churchill, Minister of Trade and Commerce

DOMINION BUREAU OF STATISTICS
Industry and Merchandising Division
Metal and Chemical Products Section

6512-586-124

Price 25 cents

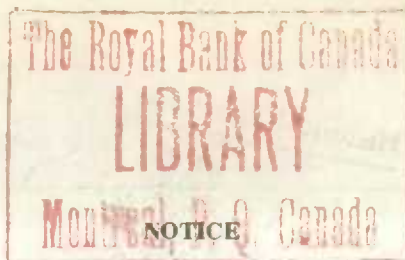
Vol. 2—Part XVI—A-1

66 1. 071

C16

D

1954



105-211
1.3

The annual reports prepared by the Industry and Merchandising Division of the Bureau of Statistics are divided into 3 volumes, as follows: **Volume I**—The Primary Industries, including mining, forestry and fisheries; **Volume II**—Manufacturing; **Volume III**—Merchandising and Services. The volumes are made up of parts, and the parts in turn are subdivided according to the industries or provinces which they comprise.

Volume II consists of the following parts, the first two of which deal with manufacturing as a whole and the balance with the major manufacturing groups.

- I—General Review of the Manufacturing Industries, \$1.50
- II—The Manufacturing Industries of Canada, (7 sections, as follows:)
 - Section A. Summary for Canada, 25¢
 - Section B. Atlantic Provinces, 25¢
 - Section C. Quebec, 25¢
 - Section D. Ontario, 25¢
 - Section E. Prairie Provinces, 25¢
 - Section F. British Columbia, 25¢
 - Section G. The Manufacturing Industries of Canada, Regional Distribution, 75¢
- III—Foods and Beverages
- IV—Tobacco and Tobacco Products
- V—Rubber Products
- VI—Leather Products
- VII—Textiles
- VIII—Wood and Paper Products
- IX—Printing Trades
- X—Iron and Steel Products
- XI—Transportation Equipment
- XII—Non-ferrous Metal Products
- XIII—Electrical Apparatus and Supplies
- XIV—Non-metallic Mineral Products
- XV—Products of Petroleum and Coal
- XVI—Chemicals and Allied Products
- XVII—Miscellaneous Manufactures

The present report belongs in Part XVI, Chemicals and Allied Products. It is punched to permit of filing in a ring binder along with others of the group. The reports in this group are:

- A—General Review, 25¢
- B—The Acids, Alkalies and Salts Industry, 25¢
- C—The Fertilizers Industry, 25¢
- D—The Fertilizer Trade in Canada, 25¢
- E—The Medicinal and Pharmaceutical Preparations Industry, 25¢
- F—The Paints, Varnishes and Lacquers Industry, 25¢
- G—The Primary Plastics Industry, 25¢
- H—The Soaps, Washing Compounds and Cleaning Preparations Industry, 25¢
- I—The Toilet Preparations Industry, 25¢
- J—The Vegetable Oils Industry, 25¢
- K—The Inks Industry, 25¢
- L—The Adhesives Industry, 25¢
- M—The Polishes and Dressings Industry, 25¢
- N—The Compressed Gases Industry, 25¢
- O—The Coal Tar Distillation Industry, 25¢
- P—The Miscellaneous Chemical Products Industry, 25¢

"S"
(For Printer's Use Only)

(August 16, 1957)

CHEMICALS AND ALLIED PRODUCTS

1954

GENERAL REVIEW

Production of chemicals and allied products in Canada totalled \$935.7 millions in 1954 compared with \$881.5 millions in 1953, an increase of about 6.2 per cent. The net value of production, or the value added by manufacturing, also advanced, the \$476.1 millions in 1954 being 6 per cent higher than the \$448.3 millions in 1953.

The gross values of production by industries were as follows, in millions of dollars: Acids, alkalies and salts \$142.0; fertilizers, \$78.1; medicinal and pharmaceutical preparations, \$97.4; paints and varnishes, \$107.7; primary plastics, \$58.9; soaps, washing compounds and cleaning preparations, \$92.5; toilet preparations, \$31.9; vegetable oils, \$53.1; inks, \$13.4; adhesives, \$12.8; polishes and dressings, \$17.8, compressed gases, \$15.9; coal tar distillation, \$12.9; and miscellaneous chemical products, \$201.3.

In the entire group there were 1,116 plants in 1954 with approximately 52,000 employees and an aggregate payroll of \$177 millions. The 550 works in Ontario accounted for 55 per cent of the production and 48 per cent of the employees and the 367 plants in Quebec accounted for 33 per cent of the total output and 42 per cent of the workers. The other provinces with 199 accounted for about 12 per cent of the total Canadian production. Materials used in manufacturing processes cost \$437.1 millions and fuel and electricity cost \$32.2 millions.

The exports of chemicals and allied products showed an increase in 1954, the value of \$161.3 millions being about 17 per cent higher than the \$137.9 millions in 1953. Exports to the United States amounted to \$85.9 millions or 53 per cent of the total shipped to all foreign countries.

Imports at \$220.4 millions were slightly lower than the \$221.8 millions in 1953. About 86 per cent of the imports came from the United States while the United Kingdom accounted for about 8 per cent.

Note: Figures for value added by manufacture prior to 1952 were obtained by subtracting the cost of materials used, including fuel and electricity, from the value of production. In 1952, the gross value of production was replaced by value of factory shipments, f.o.b. plant. As no information on inventory change is available for 1953, value added figures for the latter year were obtained by subtracting from the value of shipments the cost of materials, fuel and electricity. In 1954, information on the value of year-end inventory holdings at plant and plant warehouses was collected as part of the annual Census of Industry and information thus made available was taken into account in calculating the value added figure for 1954.

TABLE 1. Principal Statistics for the Chemicals and Allied Products Group, by Industries, 1953 and 1954

Industry	Establishments	Employees	Salaries and wages for year	Cost of fuel and electricity at works	Cost of materials at works	Value added by manufacture ¹	Selling value of products at works
	No.	No.	\$	\$	\$	\$	\$
1953							
Acids, alkalis and salts	41	8,278	31,174,479	13,264,151	43,083,175	70,952,111	127,299,437
Fertilizers	40	3,199	11,511,643	1,948,620	39,310,484	43,095,265	84,354,369
Medicinals and pharmaceuticals	217	7,492	21,758,651	822,438	30,716,172	62,018,558	93,557,168
Paints and varnishes	122	5,887	19,237,809	756,392	55,144,047	57,347,366	113,247,805
Primary plastics	19	2,160	7,916,418	904,454	24,497,716	19,139,712	44,541,882
Soaps, washing compounds and cleaning preparations	141	3,824	13,126,296	1,194,015	38,323,494	49,731,314	89,248,823
Toilet preparations	94	1,955	4,648,547	121,950	11,309,157	19,007,367	30,438,474
Vegetable oils	13	675	2,345,831	492,220	43,992,061	6,359,159	50,843,440
Inks	33	891	2,891,130	107,523	5,198,173	7,517,350	12,823,046
Adhesives	29	707	2,144,997	403,118	6,490,797	5,188,200	12,082,115
Polishes and dressings	49	845	2,401,656	95,121	7,704,870	9,430,077	17,230,068
Compressed gases	45	1,226	4,046,844	490,633	2,240,446	12,981,251	15,712,330
Coal tar distillation	11	541	1,861,353	755,122	7,551,105	5,328,672	13,634,899
Miscellaneous chemical products	251	12,527	39,524,954	8,185,181	88,124,634	80,180,174	176,489,989
Total	1,105	50,207	164,590,810	29,540,938	403,686,331	448,276,576	881,503,845
1954							
Acids, alkalis and salts	43	8,408	33,425,864	13,358,379	49,400,551	79,376,289	142,001,601
Fertilizers	38	3,049	11,603,480	2,992,340	41,275,216	39,654,741	78,149,303
Medicinals and pharmaceuticals	216	7,380	22,648,147	864,899	31,257,738	66,414,045	97,395,558
Paints and varnishes	124	5,719	19,624,624	831,292	55,060,771	51,899,254	107,727,373
Primary plastics	22	2,808	11,190,653	1,685,624	30,973,562	26,892,324	58,881,800
Soaps, washing compounds and cleaning preparations	141	3,756	13,561,883	1,250,280	41,125,268	50,835,903	92,526,204
Toilet preparations	94	2,048	5,147,118	119,948	12,197,035	19,877,952	31,943,143
Vegetable oils	12	868	2,462,494	628,717	45,087,723	8,205,689	53,120,709
Inks	33	964	3,166,802	114,690	5,144,564	8,245,627	13,396,490
Adhesives	28	621	1,987,142	367,922	6,213,522	5,946,176	12,772,801
Polishes and dressings	50	850	2,587,366	102,966	7,884,495	9,802,348	17,718,078
Compressed gases	46	1,305	4,355,140	513,145	2,622,602	12,746,776	15,873,288
Coal tar distillation	11	544	2,101,870	655,821	7,417,777	4,752,227	12,878,275
Miscellaneous chemical products	256	13,483	43,449,377	8,726,824	104,390,267	91,475,977	201,340,257
Total	1,116	51,603	177,311,960	32,213,247	437,051,091	476,125,328	835,724,880

1. Gross selling value less cost of materials, fuel and electricity in 1953 - for 1954 see footnote to text.

TABLE 2. Principal Statistics for the Chemicals and Allied Products Group, by Provinces, 1953 and 1954

Province	Establishments	Employees	Salaries and wages for year	Cost of fuel and electricity at works	Cost of materials at works	Value added by manufacture	Selling value of products at works
	No.	No.	\$	\$	\$	\$	\$
1953							
Newfoundland	6	71	224,082	17,761	641,652	34,476	1,293,889
Prince Edward Island and Nova Scotia	18	334	917,304	156,218	4,112,475	3,518,675	7,587,368
New Brunswick	7	157	466,637	59,903	3,927,055	1,779,050	5,766,008
Quebec	368	20,649	65,534,921	8,093,413	134,026,946	138,896,012	281,016,371
Ontario	539	24,587	82,619,177	19,455,440	225,307,664	252,969,273	497,732,377
Manitoba	41	701	1,755,955	142,332	6,893,994	5,922,893	12,959,219
Saskatchewan	8	172	624,828	30,816	1,155,741	889,178	2,075,735
Alberta	27	1,077	3,833,794	1,163,472	4,976,848	8,441,977	14,582,297
British Columbia	91	2,459	8,614,112	421,583	22,643,956	35,425,042	58,490,581
Canada	1,105	50,207	164,590,810	29,540,938	403,686,331	448,276,576	881,503,845
1954							
Newfoundland	6	78	214,722	16,708	616,327	651,695	1,289,270
Prince Edward Island and Nova Scotia	18	317	691,500	126,157	3,973,354	2,717,235	6,943,521
New Brunswick	7	147	429,175	61,506	2,810,179	1,080,094	4,014,430
Quebec	367	21,647	71,384,181	9,088,446	144,825,596	157,777,274	311,816,125
Ontario	550	24,725	86,759,306	19,284,510	239,579,301	257,894,377	513,632,938
Manitoba	41	698	1,890,054	160,336	6,629,932	5,205,052	11,934,183
Saskatchewan	9	199	697,766	39,521	2,217,228	1,531,183	3,257,153
Alberta	31	1,427	6,017,895	1,899,650	10,088,705	15,475,127	25,923,020
British Columbia and Northwest Territories	87	2,365	9,027,361	1,536,413	26,310,467	33,793,291	56,914,240
Canada	1,116	51,603	177,311,960	32,213,247	437,051,091	476,125,328	835,724,880

TABLE 3. Inventories in the Chemical and Allied Products Group, by Industries, 1954

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
	\$	\$	\$	\$
Opening:				
Acids, alkalies and salts	15,228,209	1,250,470	8,739,247	25,217,926
Fertilizers	7,555,912	6,650,497	5,431,517	19,637,926
Medicinals and pharmaceuticals	9,379,723	4,579,333	9,844,952	23,804,008
Paints and varnishes	8,843,271	1,030,452	13,315,919	23,189,642
Primary plastics	4,493,523	1,054,621	3,696,809	9,244,953
Soaps, washing compounds and cleaning preparations	5,350,055	1,139,128	6,973,274	13,462,457
Toilet preparations	3,807,960	250,869	2,261,871	6,320,700
Vegetable oils	10,354,021	95,928	1,130,978	11,580,927
Inks	906,297	138,686	583,012	1,627,995
Adhesives	1,211,133	50,801	1,548,924	2,810,858
Polishes and dressings	1,279,034	155,238	1,256,623	2,690,895
Compressed gases	439,252	—	81,269	530,521
Coal tar distillation	946,422	110,784	848,756	1,905,962
Miscellaneous chemical products	50,567,527	14,238,285	10,255,238	75,061,050
Total	120,362,339	30,745,092	65,978,389	217,085,820
Closing:				
Acids, alkalies and salts	14,495,626	1,218,835	8,872,865	24,587,326
Fertilizers	6,258,197	6,845,180	11,204,511	24,307,868
Medicinals and pharmaceuticals	10,050,950	5,431,517	10,986,076	26,468,543
Paints and varnishes	8,886,819	1,445,696	13,379,863	23,712,378
Primary plastics	4,787,993	923,336	4,366,719	10,058,048
Soaps, washing compounds and cleaning preparations	5,685,396	1,195,385	7,638,521	14,539,302
Toilet preparations	3,906,455	242,847	2,513,663	6,662,965
Vegetable oils	10,752,064	55,977	1,932,398	12,740,439
Inks	948,227	147,194	891,603	1,787,024
Adhesives	1,113,066	163,220	1,303,743	2,580,029
Polishes and dressings	1,233,501	121,167	1,328,354	2,683,022
Compressed gases	497,918	811	100,504	599,233
Coal tar distillation	760,622	143,334	796,306	1,700,262
Miscellaneous chemical products	49,517,442	18,297,276	10,508,049	78,322,767
Total	118,874,278	36,231,775	75,643,175	230,749,226

TABLE 4. Inventories in the Chemical and Allied Products Group, by Provinces, 1954

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
	\$	\$	\$	\$
Opening:				
Newfoundland	197,370	5,493	84,033	286,896
Prince Edward Island and Nova Scotia	770,576	226,258	694,107	1,692,941
New Brunswick	562,498	802,198	342,840	1,707,536
Quebec	59,086,436	17,316,294	23,341,104	99,743,834
Ontario	51,308,112	11,676,939	34,265,903	97,250,954
Manitoba	1,304,494	91,541	1,428,918	2,824,951
Saskatchewan	68,852	—	33,366	102,238
Alberta	1,637,136	210,375	1,186,166	3,033,677
British Columbia and North West Territories	5,426,865	413,994	4,601,934	10,442,793
Canada	120,362,339	30,745,092	65,978,389	217,085,820
Closing:				
Newfoundland	220,619	2,564	79,493	302,676
Prince Edward Island and Nova Scotia	662,631	337,472	567,332	1,567,435
New Brunswick	439,304	894,335	280,189	1,413,828
Quebec	58,784,013	21,538,051	23,216,297	103,538,361
Ontario	50,639,197	12,835,254	37,391,153	100,865,604
Manitoba	1,367,866	93,900	1,490,053	2,951,819
Saskatchewan	123,590	—	564,165	687,755
Alberta	1,923,387	313,311	2,726,628	4,963,326
British Columbia and North West Territories	4,713,669	418,888	9,327,895	14,460,422
Canada	118,874,278	36,231,775	75,643,175	230,749,226

TABLE 5. Principal Statistics by Size of Establishment, for the Chemicals and Allied Products Group, 1954

	Establishments	Employees	Salaries and wages	Cost of fuel and electricity	Cost of materials	Gross value of factory shipments
	No.	No.	\$	\$	\$	\$
(a) Factory shipments						
Under \$10,000	164	334	570,931	26,366	288,337	759,391
\$10,000 to \$24,999	119	340	675,537	53,858	708,255	1,918,971
\$25,000 to \$49,999	106	513	1,127,359	84,492	1,618,629	3,801,702
\$50,000 to \$99,999	124	914	2,488,862	173,619	3,649,856	8,885,719
\$100,000 to \$199,999	134	1,521	4,338,611	311,231	8,026,202	19,520,169
\$200,000 to \$499,999	162	4,049	12,955,501	2,214,346	26,122,402	61,776,109
\$500,000 to \$999,999	136	9,375	32,781,947	8,662,409	75,815,244	168,252,152
\$1,000,000 to \$4,999,999	140	15,110	51,702,320	6,232,361	169,024,705	323,023,345
\$5,000,000 and over	31	17,802	62,509,291	14,454,765	151,797,461	347,787,322
Head offices	—	1,645	8,161,601	—	—	—
Totals	1,116	51,603	177,311,960	32,213,247	437,051,091	935,724,880
(b) Employees						
Under 5 employees	363	781	1,681,051	136,108	4,562,968	9,828,333
5 to 14 employees	323	2,759	8,053,173	617,292	24,820,580	50,314,100
15 to 49 employees	244	6,996	22,103,532	2,124,067	80,353,237	150,931,410
50 to 99 employees	95	6,518	20,662,224	2,605,504	58,054,639	121,706,895
100 to 199 employees	46	6,734	22,927,164	2,832,939	72,855,213	141,258,369
200 to 499 employees	28	8,703	32,546,667	6,193,249	66,991,268	189,140,685
500 to 999 employees	12	8,868	33,339,957	8,109,769	65,111,437	165,261,634
1,000 to 1,499 employees	2	8,599	27,836,591	9,594,319	64,301,729	127,285,454
1,500 and over	3					
Head offices	—	1,645	8,161,601	—	—	—
Totals	1,116	51,603	177,311,960	32,213,247	437,051,091	935,724,880

TABLE 6. New Investment in Durable Physical Assets and Repair and Maintenance, in the Chemicals and Allied Products Group, 1945-1954

Year	New investment			Repair and maintenance			Total
	Construction	Machinery and equipment	Sub-total	Construction	Machinery and equipment	Sub-total	
	Millions of dollars						
1945	4.0	3.6	7.6	4.2	7.2	11.4	19.0
1946	11.6	8.0	19.6	2.9	10.3	13.2	32.8
1947	14.4	19.3	33.7	4.0	12.5	16.5	50.2
1948	15.0	26.9	41.9	4.3	15.8	20.1	62.0
1949	11.9	25.9	37.8	3.9	17.3	21.2	59.0
1950	7.3	19.0	26.3	4.3	19.1	23.4	49.7
1951	19.2	38.5	57.7	4.0	24.8	28.8	86.5
1952	61.2	79.8	141.0	4.5	26.6	31.1	172.1
1953	32.0	90.3	122.3	4.3	26.5	30.8	153.1
1954	15.2	24.8	40.0	6.2	31.4	37.6	77.6

TABLE 7. Employees and Their Earnings in the Chemicals and Allied Products Group, by Industries, 1953 and 1954

Industry	Number of employees					Earnings		
	Supervisory and office		Production and related workers		Total	Supervisory and office	Production and related workers	Total
	Male	Female	Male	Female				
						\$	\$	\$
1953								
Acids, alkalies and salts	1,875	569	5,748	86	8,278	10,602,269	20,572,210	31,174,479
Fertilizers	752	208	2,219	20	3,199	3,910,993	7,600,650	11,511,643
Medicinals and pharmaceuticals	1,642	1,473	2,231	2,164	7,492	11,288,283	10,470,368	21,758,651
Paints and varnishes	1,587	872	3,067	361	5,887	9,189,522	10,048,287	19,237,809
Primary plastics	571	207	1,319	63	2,160	3,249,777	4,666,641	7,916,418
Soaps, washing compounds and cleaning preparations	1,061	597	1,767	399	3,824	6,006,125	7,120,171	13,126,296
Toilet preparations	308	363	446	838	1,955	2,256,598	2,391,949	4,648,547
Vegetable oils	167	64	442	2	675	981,060	1,364,771	2,345,831
Inks	192	99	545	55	891	1,158,507	1,732,623	2,891,130
Adhesives	172	78	419	38	707	827,278	1,317,719	2,144,997
Polishes and dressings	180	176	292	197	845	1,291,285	1,110,573	2,401,858
Compressed gases	289	222	714	1	1,226	1,675,900	2,370,944	4,046,844
Coal tar distillation	107	29	401	4	541	528,636	1,332,717	1,861,353
Miscellaneous chemical products	2,583	1,072	7,165	1,707	12,527	13,656,350	25,868,604	39,524,954
Total	11,468	6,029	26,775	5,935	50,207	66,622,583	97,968,227	164,590,810
1954								
Acids, alkalies and salts	2,034	568	5,764	42	8,408	11,696,996	21,728,866	33,425,864
Fertilizers	710	146	2,179	14	3,049	3,788,129	7,815,351	11,603,480
Medicinals and pharmaceuticals	1,512	1,474	2,257	2,137	7,380	11,643,992	11,004,155	22,648,147
Paints and varnishes	1,504	807	3,086	322	5,719	9,125,176	10,499,448	19,624,624
Primary plastics	769	297	1,656	86	2,808	4,838,966	6,351,687	11,190,653
Soaps, washing compounds and cleaning preparations	1,013	554	1,792	397	3,756	6,265,135	7,296,748	13,561,883
Toilet preparations	326	428	457	837	2,049	2,654,897	2,492,221	5,147,118
Vegetable oils	167	69	430	2	668	1,024,526	1,437,968	2,462,494
Inks	210	105	597	52	964	1,338,492	1,828,310	3,166,802
Adhesives	145	89	357	30	621	849,081	1,138,061	1,987,142
Polishes and dressings	206	183	295	166	850	1,485,255	1,102,111	2,587,366
Compressed gases	341	237	726	1	1,305	1,899,043	2,456,097	4,355,140
Coal tar distillation	132	35	370	7	544	805,866	1,296,004	2,101,870
Miscellaneous chemical products	2,755	1,163	7,637	1,928	13,483	15,996,177	27,453,200	43,449,377
Total	11,824	6,155	27,603	6,021	51,603	73,411,733	103,900,227	177,311,960

TABLE 8. Employees and Their Earnings in the Chemicals and Allied Products Group, by Provinces, 1953 and 1954

Province	Number of employees					Earnings		
	Supervisory and office		Production and related workers		Total	Supervisory and office	Production and related workers	Total
	Male	Female	Male	Female				
						\$	\$	\$
1953								
Newfoundland	12	4	42	13	71	67,253	156,829	224,082
Prince Edward Island and Nova Scotia	74	29	218	13	334	321,598	595,706	917,304
New Brunswick	22	8	125	2	157	107,641	358,996	466,637
Quebec	4,735	2,388	10,643	2,883	20,649	27,310,074	38,224,847	65,534,921
Ontario	5,460	3,239	13,099	2,789	24,587	33,169,994	49,449,183	82,619,177
Manitoba	155	83	386	77	701	730,844	1,025,111	1,755,955
Saskatchewan	77	39	51	5	172	466,182	158,646	624,828
Alberta	334	99	588	56	1,077	1,573,698	2,260,096	3,833,794
British Columbia and Northwest Territories	599	140	1,623	97	2,459	2,875,299	5,738,813	8,614,112
Canada	11,468	6,029	26,775	5,935	50,207	66,622,583	97,968,227	164,590,810
1954								
Newfoundland	12	5	48	13	78	67,896	146,826	214,722
Prince Edward Island and Nova Scotia	76	28	199	14	317	319,427	572,073	891,500
New Brunswick	19	8	120	—	147	95,363	333,812	429,175
Quebec	4,795	2,423	11,349	3,080	21,647	30,342,749	41,041,432	71,384,181
Ontario	5,725	3,277	12,998	2,725	24,725	36,096,353	50,662,953	86,759,306
Manitoba	155	95	372	76	698	785,723	1,104,331	1,890,054
Saskatchewan	83	45	67	4	199	499,581	198,185	697,766
Alberta	387	133	886	21	1,427	2,163,269	3,854,626	6,017,895
British Columbia and Northwest Territories	572	141	1,564	88	2,365	3,041,372	5,985,989	9,027,361
Canada	11,824	6,155	27,603	6,021	51,603	73,411,733	103,900,227	177,311,960

CHEMICALS AND ALLIED PRODUCTS

TABLE 9. Production and Related Workers (wage-earners) in the Chemicals and Allied Products Group, by Industries and by Months, 1954

Month	Acids, alkalies and salts	Fertilizers	Medicinals and pharmaceuticals	Paints and varnishes	Primary plastics	Soaps and cleaning preparations	Toilet preparations	
	Number							
January.....	6,099	2,174	4,467	3,326	1,674	2,167	1,180	
February.....	6,035	2,215	4,454	3,399	1,708	2,157	1,224	
March.....	5,978	2,229	4,457	3,432	1,660	2,210	1,248	
April.....	5,858	2,438	4,434	3,509	1,701	2,165	1,282	
May.....	5,862	2,547	4,423	3,525	1,749	2,162	1,273	
June.....	5,883	2,132	4,445	3,573	1,812	2,221	1,315	
July.....	5,825	2,029	4,295	3,505	1,810	2,254	1,314	
August.....	5,703	2,096	4,388	3,420	1,795	2,244	1,380	
September.....	5,729	2,142	4,385	3,367	1,771	2,206	1,378	
October.....	5,651	2,120	4,403	3,324	1,756	2,203	1,377	
November.....	5,585	2,111	4,356	3,285	1,733	2,164	1,347	
December.....	5,483	2,101	4,318	3,235	1,741	2,109	1,231	
Average.....	5,806	2,193	4,394	3,408	1,742	2,189	1,294	
Month	Vegetable oils	Inks	Adhesives	Polishes and dressings	Compressed gases	Coal tar distillation	Miscellaneous	Total
	Number							
January.....	432	623	411	462	709	368	9,279	33,371
February.....	411	625	403	478	712	367	9,422	33,610
March.....	413	637	394	463	723	373	9,546	33,763
April.....	418	651	405	467	716	363	9,469	33,878
May.....	414	647	395	460	745	377	9,458	34,037
June.....	389	653	393	453	749	387	9,598	34,003
July.....	380	647	384	458	758	384	9,781	33,824
August.....	419	657	375	475	753	398	9,754	33,857
September.....	397	658	370	463	734	388	9,691	33,679
October.....	514	660	373	444	716	378	9,622	33,541
November.....	523	671	373	453	709	375	9,650	33,335
December.....	505	657	370	455	711	368	9,527	32,811
Average.....	432	649	387	461	727	377	9,565	33,624

TABLE 10. Production and Related Workers (wage-earners) in the Chemicals and Allied Products Group, by Provinces and by Months, 1954

Month	Newfoundland	Prince Edward Island and Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia and Northwest Territories	Canada
	Number									
January.....	57	199	99	14,233	15,771	429	62	924	1,597	33,371
February.....	57	201	121	14,398	15,788	439	67	917	1,622	33,610
March.....	58	207	147	14,499	15,794	448	71	863	1,676	33,763
April.....	69	260	171	14,429	15,828	454	79	918	1,670	33,678
May.....	61	271	185	14,372	15,963	455	96	921	1,713	34,037
June.....	61	212	106	14,554	15,902	466	90	937	1,675	34,003
July.....	63	203	96	14,543	15,749	474	79	938	1,679	33,824
August.....	67	200	90	14,572	15,785	468	63	915	1,697	33,857
September.....	61	198	97	14,621	15,616	450	58	922	1,660	33,679
October.....	61	197	117	14,526	15,589	452	62	900	1,637	33,541
November.....	61	206	108	14,413	15,551	440	63	877	1,616	33,335
December.....	61	198	105	14,076	15,395	431	62	872	1,613	32,811
Average.....	61	213	120	14,429	15,723	448	71	907	1,632	33,624

TABLE 11. Materials Used in the Industries in the Chemicals and Allied Products Group, 1953 and 1954

Item	1953		1954	
	Quantity	Cost at works	Quantity	Cost at works
		\$		\$
Acetic anhydride.....	lb. 2,340,871	255,046	2,349,221	256,852
Acetone.....	" 5,005,231	534,814	3,997,944	428,165
Acetanilid.....	" 7,515	3,610	7,932	4,179
Acetylene.....	cu. ft. 153,927,308	1,134,603	161,770,987	1,168,814
Acid:				
Acetic.....	lb. 2,622,698	248,897	16,928,006	1,956,681
Acetylsalicylic.....	" 717,862	421,971	597,402	342,046
Arsenic (As ₂ O ₅).....	" 1,002,424	42,137	1,397,596	73,093
Benzole.....	" 188,680	61,743	240,638	57,279
Boric or boracic.....	" 165,190	17,261	116,536	13,046
Citric.....	" 706,316	194,596	436,362	133,808
Cresylic (see also cresol).....	" 127,629	17,215	138,533	20,019
Fatty, n.e.s.....	" 663,458	65,947	2,017,882	147,522
Formic.....	" 145,135	29,392	104,000	20,316
Gallic.....	" 673	1,126	731	890
Hydrochloric (muriatic).....	" 4,003,508	104,602	4,196,690	122,794
Naphthenic.....	" 1,967,786	188,907	2,796,965	232,514
Nitric.....	" 8,618,006	294,677	8,463,604	318,540
Oleic.....	" 1,021,011	141,687	930,239	134,194
Oxalic.....	" 328	81	350	93
Phosphoric.....	" 1,310,183	97,090	760,979	69,783
Stearic.....	" 1,433,210	214,130	1,573,689	223,185
Sulphuric.....	" 1,093,345,057	4,860,421	1,347,602,165	6,273,972
Tannic.....	" 3,550	5,225	2,854	3,858
Tartaric.....	" 559,323	169,294	460,076	137,973
Alcohol:				
Amyl (fusel oil).....	gal. 900	1,843	2,916	4,867
Butyl.....	lb. 2,752,208	405,190	2,790,876	444,198
Ethyl.....	gal. 1,518,618	1,908,775	1,203,477	1,549,509
Isopropyl.....	lb. 2,286,706	229,163	3,139,042	309,966
Methyl (wood) refined.....	gal. 1,276,643	585,466	2,194,747	835,942
Aluminum rod, strip, etc.....	lb. 39,052	17,723	55,927	27,357
Aluminum hydrate.....	" 57,612,502	1,440,313	31,894,522	797,363
Aluminum sulphate.....	" 760,950	19,227	937,534	24,211
Ammonia, anhydrous.....	" 154,377,711	4,597,176	202,525,258	5,755,828
Ammonium chloride.....	" 305,710	29,943	254,826	26,528
Ammonium nitrate.....	" 25,447,111	992,672	16,052,625	630,761
Ammonium phosphate.....	tons 6,332	607,066	5,541	553,688
Ammonium sulphate.....	" 42,415	2,061,844	40,303	1,932,751
Amyl acetate.....	lb. 558,627	128,565	544,162	97,202
Arsenic, white (As ₂ O ₃).....	" 88,804	5,586	13,389	840
Asphalt.....	gal. 3,963,588	522,516	4,437,875	584,227
Barium chloride.....	lb. 473,037	32,152	517,216	33,116
Barium nitrate.....	" 197,792	19,161	154,387	17,228
Barytes.....	" 2,672,802	101,791	3,952,044	144,405
Bentonite (filtrol, Pembina, etc.).....	tons 739	59,656	586	47,857
Benzol ¹	lb. 7,804,836	452,794	86,260,963	4,749,584
Bismuth metal.....	" 15,753	35,797	19,094	45,433
Bismuth salts.....	" 15,106	51,466	14,168	50,663
Black, lamp, bone and other, n.e.s.....	" 331,240	63,426	299,187	61,993
Blanc fixe.....	" 494,611	17,390	499,637	16,645
Blood, dried.....	tons 62	6,202	42	4,124
Blue, ultramarine.....	lb. 267,990	74,773	218,685	64,290
Bone meal and bone flour.....	tons 55	4,167	37	2,903
Bones.....	" 16,703	759,732	14,001	439,214
Borax.....	lb. 1,943,453	88,724	2,080,665	90,305
Brass rod, strip, etc.....	" 1,395,964	497,575	1,589,248	558,360
Brucite fines.....	tons 994	52,600	-	-
Butyl acetate.....	lb. 4,164,503	608,878	3,335,922	574,340
Butyl cellulolve.....	" 87,897	22,298	152,268	35,220
Caffeine.....	" 25,973	72,725	26,599	84,576
Calcium arsenate.....	" 359,080	34,881	493,729	44,518
Calcium carbide.....	" 25,315,525	1,381,898	24,886,010	1,278,410
Calcium carbonate (ground chalk, whiting).....	" 26,497,611	457,681	26,459,180	464,663
Calcium chloride.....	" 3,370,892	81,640	3,104,351	72,384
Calcium sulphate.....	" 2,069,321	29,794	2,069,630	28,825
Camphor.....	" 58,757	32,651	51,880	31,141

1. Includes usage for production of synthetic rubber in 1954.

TABLE 11. Materials Used in the Industries in the Chemicals and Allied Products Group, 1953 and 1954 - Continued

Item	1953		1954		
	Quantity	Cost at works	Quantity	Cost at works	
		\$		\$	
Carbon bisulphide	lb.	4,613,523	288,456	5,144,509	318,117
Carbon black	"	1,310,293	277,348	2,176,984	315,008
Carbon dioxide gas (unpurified)	—	—	54,624	—	35,825
Carbon tetrachloride	lb.	262,482	29,360	240,174	31,787
Casein	"	1,254,134	274,365	1,229,358	254,060
Chalk, precipitated	"	684,192	29,505	690,831	36,311
Charcoal	"	4,991,285	152,140	6,261,329	181,977
Chloride of lime	"	1,893,696	81,788	1,217,630	63,505
Chlorine, liquid	"	25,355,463	815,607	54,361,871	1,421,174
Coal:					
Anthracite (except for fuel)	tons	57,093	866,474	50,109	712,352
Bituminous (except for fuel)	"	—	—	—	—
Cobalt acetate	lb.	2,785	3,230	1,764	2,045
Cobalt sulphate	"	3,038	3,099	2,605	2,866
Coke:					
Petroleum (except for fuel)	tons	633	12,000	—	—
For making carbon dioxide	"	—	—	—	—
Other (except for fuel)	tons	254,879	4,868,315	267,348	4,799,941
Colours, chrome (see also zinc chromate)	lb.	2,487,980	962,809	2,382,936	929,420
Copper strip, sheet, etc.	"	2,164,200	898,473	2,456,838	727,224
Copper sulphate	"	416,184	95,381	551,976	129,771
Copra or dried coconut kernels	"	24,334,000	2,245,458	46,526,660	3,913,065
Cotton linters	"	386,141	48,228	347,574	38,984
Creosote	"	372,887	23,628	387,907	25,296
Cresol (see also cresylic acid)	"	735,296	112,936	457,015	66,609
D.D.T.	"	1,207,721	304,709	1,189,232	259,083
Dextrine	"	7,192,897	722,315	8,798,556	895,259
Diatomaceous earth	tons	8,643	427,881	9,384	448,533
Dibutyl phthalate	lb.	470,334	142,452	487,552	152,345
Dinitrotoluene	"	745,412	155,993	881,418	182,137
Driers:					
Linoleate	lb.	41,493	14,407	12,251	4,422
Naphthenate	"	2,053,973	642,735	2,243,001	658,187
Resinate	"	94,725	25,839	41,983	8,651
Other	"	449,460	137,430	278,350	134,022
Dyes and colours, other	"	307,581	169,594	314,534	180,749
Electrodes	—	—	851,010	—	685,217
Ether, sulphuric	lb.	56,407	13,411	58,962	11,782
Ethyl acetate	"	5,907,931	738,539	5,361,667	689,654
Ethylene glycol	lb.	21,074,716	3,475,671	24,480,151	3,094,091
Feldspar	tons	2,537	38,909	933	16,946
Ferric chloride	lb.	266,489	12,242	171,210	8,014
Flaxseed	bu.	4,653,328	14,789,235	3,602,126	10,528,574
Flour:					
Potato	lb.	270,962	22,929	403,589	27,525
Soya bean	"	449,422	32,465	274,559	19,297
Tapioca	"	669,928	103,059	806,833	76,912
Wheat	"	4,437,376	193,538	5,058,345	197,002
Other	"	711,497	43,028	249,692	17,213
Fluorspar	tons	59,556	1,931,367	63,751	1,985,027
Foats, olive and cotton seed	lb.	3,521,125	213,270	6,675,566	377,634
Formaldehyde	"	31,665,576	1,300,891	34,993,034	1,307,549
Fuller's earth	tons	303	12,453	289	15,392
Glucose	lb.	1,267,114	97,012	1,463,658	110,348
Glue	"	3,395,764	802,824	3,389,847	768,977
Glycerine:					
Crude	lb.	3,563,766	1,085,943	4,089,975	853,441
Refined	"	9,752,670	4,086,441	9,415,465	3,064,332
Graphite	"	788,132	164,775	665,808	130,980
Grease	"	5,061,762	266,211	3,703,728	269,424
Gun powder	"	734,585	330,826	734,468	354,290
Herbs, roots and vegetable drugs	—	—	387,282	—	556,213
Hides and hide trimmings	tons	19,391	377,460	17,599	285,771
Hydrogen chloride, anhydrous	lb.	8,287,063	381,110	9,172,949	409,641

TABLE 11. Materials Used in the Industries in the Chemicals and Allied Products Group, 1953 and 1954 - Continued

Item	1953		1954	
	Quantity	Cost at works	Quantity	Cost at works
		\$		\$
Iodine, crude	lb. 102,515	159,538	103,863	124,471
Iron, scrap	tons 6,976	248,890	6,337	159,048
Iron oxide pigments	lb. 4,912,177	450,031	4,380,473	389,588
Javel concentrate of sodium hypochlorite for dilution	-	57,770	-	94,896
Kaolin or china-clay	lb. 4,701,694	83,515	7,565,878	135,031
Lanolin	" 216,385	102,528	207,133	88,484
Lead arsenate	" 83,333	15,042	50,544	8,870
Lead, basic carbonate, white, dry	" 1,632,194	288,785	1,378,463	251,961
Lead, basic carbonate, white, in oil	" 480,604	98,282	359,887	75,946
Lead, basic sulphate, white	" 530,080	84,696	487,024	78,669
Lead, pig	" 8,657,789	1,393,992	10,410,028	1,391,396
Lead, red	" 1,334,051	255,554	1,217,737	228,533
Lime:				
Hydrated	tons 43,524	208,361	45,767	373,548
Quick	" 16,702	233,194	16,349	256,720
Land plaster	" 1,153	21,505	1,169	26,755
Limestone	tons 992,775	1,920,659	985,246	1,812,259
Litharge	lb. 2,556,495	428,025	2,823,793	472,539
Lithopone	" 6,120,315	555,733	5,414,688	494,865
Lumber	M bd. ft. 327	46,479	163	10,898
Magnesium oxide	tons 1,017	52,312	1,536	71,276
Magnesium sulphate (Epsom salts)	lb. 2,239,042	60,966	1,018,324	34,699
Malt extract	" 463,652	64,505	377,179	52,848
Meal, ivory nut and other	" 1,130,540	41,891	2,720,935	73,053
Menthol	" 25,568	128,902	21,114	97,319
Mercury metal	" 160,430	295,755	180,539	419,974
Mercuric oxide	" 6,578	13,801	3,292	3,820
Methyl chloride	" 3,232,230	396,066	3,597,297	437,439
Mica, ground	" 1,686,228	80,916	1,802,747	85,564
Nitrocellulose or nitrocotton	" 3,714,631	1,168,824	4,265,204	1,371,980
Nitrogen solutions	-	1,667,922	-	2,236,738
Ochres, siennas and umbers	lb. 486,852	54,160	423,830	52,691
Oil:				
Castor	gal. 367,896	775,556	379,993	518,282
Castor, dehydrated	" 102,922	302,632	101,633	229,055
Chinawood (tung)	lb. 4,783,056	1,251,389	3,938,964	624,090
Cocconut	18,483,862	2,894,466	15,993,996	2,517,200
Cod	" 807,930	99,818	1,112,592	104,266
Cod liver	" 382,518	103,499	426,809	96,091
Corn	" 49,868	4,737	34	13
Essential and perfume	-	2,854,424	-	2,693,501
Fish	lb. 2,444,102	236,835	1,761,284	169,032
Linseed:				
Raw	gal. 1,707,890	2,218,888	1,565,134	1,870,493
Boiled and other	" 2,003,998	3,023,971	2,048,408	2,821,292
Polymerol	lb. 669,282	114,419	766,875	106,069
Varnol	485,956	94,393	449,652	89,750
Mineral, other	gal. 817,349	271,692	943,989	262,280
Mineral, white	lb. 2,212,147	252,829	2,179,848	221,489
Neat's foot	" 396,629	51,653	361,133	44,481
Oiticica	" 102,150	26,353	73,123	15,854
Olive	" 60,164	17,923	61,348	17,562
Palm	" 126,605	13,296	151,340	16,838
Petroleum ink	" 1,247,724	314,944	1,184,158	237,904
Pine	" 359,653	49,950	350,950	51,961
Silicone	" 11,968	53,216	19,157	80,929
Soya bean	gal. 974,630	1,474,907	1,046,729	1,626,125
Sperm	lb. 449,030	53,808	365,687	45,829
Tall	" 2,654,408	153,620	2,145,757	128,107
Other	-	1,479,352	-	1,075,228
Paradichlorobenzene	lb. 1,546,611	200,095	1,853,223	234,302
Pentafol	" 185,100	31,852	163,990	26,473
Petrolatum	" 1,046,202	103,226	1,097,800	104,636
Petroleum distillates	gal. 8,921,310	2,889,758	7,614,455	2,674,773
Penicillin	-	431,804	-	546,812
Phenacetin	lb. 139,585	162,364	145,477	156,758
Phenobarbital and other barbiturates	" 27,260	152,975	26,952	143,438
Phenol	" 12,570,360	2,031,922	14,792,487	2,227,029
Phosphorus, amorphous	" 19,970	8,770	46,808	20,552

TABLE 11. Materials Used in the Industries in the Chemicals and Allied Products Group, 1953 and 1954 - Continued

Item	1953		1954		
	Quantity	Cost at works	Quantity	Cost at works	
		\$		\$	
Phosphorus sesquisulphide	lb.	71,684	27,334	68,360	27,117
Phosphate rock	tons	495,122	7,111,680	606,883	8,354,843
Phthalic anhydride	lb.	10,792,493	1,839,011	11,777,727	2,086,368
Pigments, all colours and fillers, n.e.s.	"	-	4,102,226	-	4,414,830
Pitch, coal tar	lb.	1,595,464	64,013	1,538,670	47,908
Plasticizers, n.e.s.	"	2,892,246	1,064,360	2,407,093	860,399
Polyvinyl chloride	"	3,441,347	1,309,687	2,984,262	1,089,642
Potassium bichromate	"	146,079	21,619	233,674	32,502
Potassium chlorate	lb.	1,080,489	123,954	1,052,059	119,671
Potassium chloride (muriate of potash)	tons	111,791	3,918,501	111,775	3,970,780
Potassium hydroxide	lb.	2,054,357	149,678	1,719,959	137,058
Potassium iodide	"	25,923	48,740	56,084	81,577
Potassium magnesium sulphate	"	3,100,000	45,144	3,936,000	60,012
Potassium nitrate	"	754,495	56,334	549,076	39,645
Potassium perchlorate	"	125,963	21,490	98,778	16,712
Potassium sodium tartrate	"	14,688	4,313	19,466	5,007
Potassium sulphate	"	19,746,494	487,484	25,973,868	708,119
Powders, metallic (bronze, aluminum, etc.)	"	1,042,674	504,976	1,121,638	494,760
Pyrethrum extract and powder	-	-	33,071	-	46,169
Pyrites	tons	77,997	731,215	74,465	659,581
Quartz and quartzite	"	23,786	88,740	30,568	139,893
Quebracho extract	lb.	180,611	26,351	108,863	14,838
Rapeseed	"	13,133,259	460,192	12,881,660	439,374
Resins and gums, natural	"	6,806,043	773,997	5,816,227	721,492
Resins, synthetic, other	"	35,173,514	8,056,605	40,585,822	8,979,321
Resins, phenolic	"	3,216,795	947,547	2,830,807	848,562
Rosin	-	-	1,195,000	-	1,266,370
Rubber:					
Chlorinated	lb.	241,579	124,573	291,913	148,749
Latex		9,282,851	1,639,629	9,562,438	1,638,930
Sawdust	"	1,442,943	20,983	1,656,399	18,104
Shellac:					
Orange	"	364,339	129,283	277,542	110,006
Bleached	"	1,390,216	803,348	1,477,066	936,807
Other	"	860,881	475,350	691,790	363,911
Silica sand	tons	71,189	660,813	73,085	639,382
Silver bullion	troy oz.	309,822	260,687	257,510	214,904
Sodium azide	lb.	7,729	9,129	7,600	9,181
Sodium benzoate	"	12,908	4,864	12,337	4,639
Sodium bicarbonate	"	2,475,437	75,637	2,040,010	67,879
Sodium bichromate	lb.	1,008,373	136,090	908,582	115,796
Sodium bromide	"	50,605	17,319	46,788	13,212
Sodium carbonate (soda ash)	"	109,152,166	2,286,304	102,888,570	2,261,041
Sodium carboxymethylcellulose	"	963,812	198,414	797,689	172,927
Sodium chlorate	"	6,396,609	550,687	2,548,314	251,308
Sodium chloride (brine)	"	896,445,936	557,957	883,666,874	643,359
Sodium chloride (common salt)	"	400,158,325	2,118,724	434,491,460	2,391,606
Sodium fluoride	"	444,607	52,371	382,756	43,737
Sodium hydroxide (caustic soda)	"	79,564,675	2,715,247	93,442,449	3,197,293
Sodium metasilicate	"	2,026,226	102,356	3,489,789	110,625
Sodium nitrate (chile saltpetre)	"	33,223,024	1,003,300	32,045,864	909,085
Sodium peroxide	"	40,344	8,105	49,156	9,948
Sodium phosphate (di)	"	1,827,227	135,478	1,850,465	160,657
Sodium phosphate (tetra)	"	270,747	25,549	315,306	31,459
Sodium phosphate (tri)	"	6,703,951	378,460	7,134,131	401,942
Sodium salicylate	"	21,846	11,406	11,917	7,333
Sodium silicate (water glass)	"	28,391,785	408,390	26,813,519	398,319
Sodium sulphate	"	3,048,246	67,417	2,561,432	57,836
Sodium sulphide	"	153,680	8,638	145,833	7,381
Solvents, n.e.s.	gal.	2,899,006	1,662,958	2,542,498	1,002,379

TABLE 11. Materials Used in the Industries in the Chemicals and Allied Products Group, 1953 and 1954 - Concluded

Item	1953		1954		
	Quantity	Cost at works	Quantity	Cost at works	
		\$		\$	
Soya beans	lb.	515,423,480	25,183,611	577,576,140	28,909,238
Starch:					
Corn	"	2,958,672	231,358	2,320,239	176,933
Other	"	786,272	65,705	739,732	62,368
Strontium carbonate	"	2,466	1,278	1,978	1,027
Strontium nitrate	"	721,474	83,942	564,423	67,836
Strontium oxalate	"	280	199	275	190
Strychnine	"	1,070	17,117	752	9,585
Sugar	"	4,333,970	361,921	4,363,861	341,652
Sulpha drugs	-	-	471,524	-	422,414
Sulphur (elemental)	tons	91,702	3,218,394	87,122	3,255,307
Sulphur dioxide	-	-	189,433	-	412,809
Sunflower seed	lb.	2,432,576	102,123	5,456,986	224,759
Superphosphate:					
18%	tons	44,518	1,080,208	30,255	628,700
20%	"	284,209	7,018,598	285,899	7,192,723
38-48%	"	15,850	960,594	15,814	944,561
Ammoniated, 3-18-0	"	356	13,028	240	12,833
Talc	lb.	34,543,992	623,408	35,739,359	607,154
Tallow, grease and other soap stock	"	106,418,899	4,697,242	94,019,027	5,807,170
Tankage	tons	58	3,605	169	9,121
Tar:					
Crude, coal	gal.	43,720,950	6,028,963	37,421,955	5,328,318
Water gas, crude	"	2,032,717	216,538	1,496,931	161,042
Tetryl	lb.	-	-	21,400	19,481
Titanium pigments, white	"	21,416,936	4,812,418	23,238,704	5,548,443
Titanium oxide, extended	"	25,814,234	2,421,222	26,309,370	2,528,698
Toluol	"	13,263,019	695,456	15,786,797	828,015
Trichlorethylene	"	112,569	13,281	18,561	1,690
Trinitrotoluol (T.N.T.)	"	686,750	132,250	551,846	107,610
Turpentine	gal.	365,186	302,837	346,390	285,136
2,4-D	lb.	1,143,406	602,755	724,847	381,499
Urea crystals	"	5,057,528	281,723	5,589,391	335,960
Varnishes	gal.	637,148	1,336,989	672,180	1,489,280
Vitamins (A, B, C and D)	-	-	1,269,324	-	1,333,965
Wax:					
Beeswax	lb.	325,023	203,277	308,509	187,009
Candelilla	"	70,513	57,872	59,891	46,288
Carnauba	"	1,487,140	1,621,013	1,457,892	1,408,506
Ouricury	"	67,470	51,313	53,463	48,838
Paraffin, including slack wax	"	38,691,041	1,612,304	37,996,533	1,664,481
Synthetic	"	75,788	50,053	320,407	111,753
Other	"	2,793,955	584,131	2,661,913	538,466
Wood:					
Blocks and splints	-	-	1,006,963	-	954,204
Flour	lb.	2,390,175	54,700	2,290,828	49,984
Hardwood for distillation	cords	17,177	207,524	28,090	296,875
Pulp	lb.	22,355,490	1,974,129	42,283,950	4,171,229
Xylol	"	7,315,467	412,407	8,361,660	460,905
Yarns	"	898,754	432,588	836,049	394,073
Zinc chromate	"	502,895	148,967	586,037	188,087
Zinc dross	"	1,513,967	127,753	1,227,467	96,135
Zinc oxide:					
Pure	"	5,882,419	821,148	5,461,522	748,159
Leaded	"	988,541	139,153	1,357,647	203,264
Zinc spelter	"	14,018,231	1,508,978	14,683,916	1,429,111
Zinc stearate	"	22,642	10,982	22,039	10,798
Zinc sulphate	"	146,765	11,275	128,864	7,021
Containers and packing material	-	-	54,534,033	-	58,218,533
All other materials	-	-	116,550,209	-	135,479,556
Total	-	-	403,686,331	-	437,051,091

TABLE 12. Alphabetical List of Products Made in the Industries in the Chemicals and Allied Products Group, 1953 and 1954

Note. This is simply a list of the principal products made for sale by concerns in the Chemicals and Allied Products group of industries with corresponding output figures where it is possible to publish them. It is not intended to be a complete list of chemicals made in Canada as numerous chemicals are made in other industries; similarly, the production figures may not represent totals for Canada as there may have been a production in other industries.

Item	1953		1954	
	Quantity	Selling value at works	Quantity	Selling value at works
		\$		\$
Acetaldehyde .....	.	.	.	.
Acetic anhydride .....	.	.	.	.
Acetone .....	.	.	.	.
Acetylene black .....	.	.	.	.
Acetylene in cylinders or delivered by pipeline	cu. ft.	155,392,530	150,026,906	5,060,711
Acid:				
Acetic, glacial, 99% .....	.	.	.	.
Cresylic .....	.	.	.	.
Crotonic .....	.	.	.	.
Fatty, other	lb.	7,807,045	10,558,170	1,176,358
Hydrochloric (muriatic):				
Commercial .....	.	.	.	.
C.P. ....	.	.	.	.
Hydrofluosilicic .....	.	.	.	.
Monochloro acetic .....	.	.	.	.
Nitric:				
Commercial .....	.	.	.	.
C.P. ....	.	.	.	.
Oleic .....	.	.	.	.
Phosphoric .....	.	.	.	.
Stearic .....	.	.	.	.
Sulphuric:				
Commercial, 100% (for sale)	lb.	1,452,900,263	1,646,673,639	9,719,703
C.P. ....	.	.	.	.
Aluminum chloride .....	.	.	.	.
Aluminum fluoride .....	.	.	.	.
Aluminum stearate .....	.	.	.	.
Aluminum sulphate .....	.	.	.	.
Ammonia:				
Anhydrous .....	.	.	.	.
Aqua .....	.	.	.	.
Ammonia powder	lb.	1,747,152	1,367,184	124,650
Ammonium chloride .....	.	.	.	.
Ammonium hydroxide:				
Commercial .....	.	.	.	.
C.P. ....	.	.	.	.
Ammonium nitrate:				
Regular .....	.	.	.	.
Fertilizer compound .....	.	.	.	.
Ammonium phosphate (fertilizer) .....	.	.	.	.
Ammonium sulphate (fertilizer) .....	.	.	.	.
Ammonium sulphate (milled, screened and bagged only)	tons	574	945	57,536
Amyl acetate .....	.	.	.	.
Anesthetics, other	-	-	-	153,766
Aniline oil	-	-	-	.
Anti-freeze preparations	Imp. gal.	1,127,330	1,258,905	2,706,206
Automobile chemicals (brake fluid, tar remover, etc.)	-	-	-	1,928,095
Biological preparations and vaccines	-	-	-	4,320,692
Boiler compounds	-	-	-	2,712,909
Bone meal:				
Raw	lb.	1,056,000	3,730,000	126,300
Steamed	"	250,000	288,000	9,190
Butane .....	.	.	.	.
Butyl acetate .....	.	.	.	.
Butyl alcohol .....	.	.	.	.
Butyraldehyde .....	.	.	.	.
Caffeine, anhydrous .....	.	.	.	.
Calcium acid phosphate .....	.	.	.	.
Calcium arsenate .....	.	.	.	.
Calcium carbide .....	.	.	.	.
Calcium chloride .....	.	.	.	.
Calcium cyanamide .....	.	.	.	.
Calcium cyanide .....	.	.	.	.
Calcium naphthenate .....	.	.	.	.
Calcium stearate .....	.	.	.	.
Carbon bisulphide .....	.	.	.	.

TABLE 12. Alphabetical List of Products Made in the Industries in the Chemicals and Allied Products Group, 1953 and 1954 - Continued

Item	1953		1954		
	Quantity	Selling value at works	Quantity	Selling value at works	
		\$		\$	
Carbon dioxide (in cylinders and solid) .....		.		.
Carboxymethylcellulose .....		.		.
Cellulose film .....		.		.
Cellulose sponges .....		.		.
Cement:					
Linoleum	gal.	754,901	480,088	552,544	535,534
Rubber		132,163	295,270	125,461	304,160
Other		—	546,310	—	281,829
Charcoal	tons	7,258	477,573	11,820	696,080
Chloride of lime	lb.	515,441	76,152	465,894	69,112
Chlorine:					
Gas	"	—	—	192,000	9,570
Liquid (for sale)	"	191,333,556	5,752,278	197,350,048	6,291,527
Chloroform .....			.	.
Cleaners:					
Toilet bowl	lb.	2,472,638	252,798	2,655,553	256,586
Drain pipe	"	260,415	53,808	502,475	92,123
Hand	"	4,438,323	651,309	3,996,189	609,018
Glass		—	243,851	—	217,185
Cleaning and scouring powder and paste	lb.	36,412,537	4,408,451	37,332,545	4,687,170
Cleaning preparations, other	—	—	2,825,878	—	3,458,651
Cobalt naphthenate .....			.	.
Coke, pitch .....			.	.
Colours:					
Butter, cheese, etc.		—	.	.	
Dry	—	—	2,412,698	—	2,434,474
In oils and japans	gal.	62,547	435,329	60,650	429,222
Copper naphthenate .....			.	.
Croton aldehyde .....			.	.
Cresol .....			.	.
Cryolite .....			.	.
D.D.T. products	—	—	1,644,475	—	1,223,419
Dentifrices, liquid, powder and paste	—	—	6,568,673	—	7,125,899
Detergents, synthetic	lb.	114,624,000	28,703,807	123,132,249	32,420,527
Dextrines .....			.	.
Dibutyl phthalate .....			.	.
Dichloroethyl ether .....			.	.
Dicyandiamide .....			.	.
Diocyl phthalate .....			.	.
Disinfectants and deodorants (except for personal use)	—	—	1,715,572	—	1,626,931
Dressings and finishes, leather, except polish	—	—	1,299,841	—	1,347,757
Dyes:					
Leather	—	—	48,648	—	23,317
Embalming fluid	—	—	286,739	—	259,917
Enamels, ready-mixed, oil and synthetic type	gal.	6,842,619	30,548,791	6,445,837	28,838,490
Ethyl acetate .....			.	.
Ethylene oxide .....			.	.
Ethylene dichloride .....			.	.
Explosives and ammunition .....			.	.
Ferric chloride .....			.	.
Ferrophosphorus .....			.	.
Fertilizers, mixed	tons	689,720	32,452,333	663,761	31,803,378
Flavouring extracts	—	—	495,673	—	455,096
Flour bleaching compound .....			.	.
Fluorspar, flotation .....			.	.
Glue:					
Bone and hide	lb.	6,918,316	2,085,001	6,954,985	1,857,627
Casein	"	865,578	260,141	803,064	218,397
Fish	"	1,279,150	375,912	1,093,100	297,397
Flexible	"	2,378,928	574,437	2,104,512	535,397
Soya bean	"	558,600	86,875	389,250	63,026
Synthetic resin	"	21,396,542	2,653,157	28,913,225	3,796,978
Vegetable, dry	"	2,026,523	225,175	2,234,343	258,665
Vegetable, liquid	"	17,770,291	1,848,967	17,522,598	1,928,818
Other	"	659,214	159,848	283,925	64,930
Glycerine:					
Crude	"	2,471,883	724,081	2,066,608	481,981
Refined	"	9,934,470	4,278,882	10,242,583	3,443,570

TABLE 12. Alphabetical List of Products Made in the Industries in the Chemicals and Allied Products Group, 1953 and 1954 - Continued

Item	1953		1954		
	Quantity	Selling value at works	Quantity	Selling value at works	
		\$		\$	
Glycols:					
Ethylene .....		.		.
Diethylene .....		.		.
Triethylene .....		.		.
Guanidine nitrate .....		.		.
Hydrogen chloride, anhydrous .....		.		.
Hydrogen peroxide, liquid .....		.		.
Inks:					
Newspaper	lb.	14,078,031	1,418,866	14,912,487	1,533,196
Letterpress		5,322,706	5,881,613	5,191,993	5,296,600
Lithographing	"	1,540,825	1,864,623	1,595,538	2,084,343
Stamping	"	97,500	117,735	103,500	118,650
Other printing	"	4,695,955	2,442,729	5,050,832	2,616,001
Writing:					
Liquid	-	-	312,771	-	370,236
Powder and pellets	-	-	3,124	-	5,380
Insecticides, other:					
Agricultural dusts and sprays, not specified elsewhere	-	-	1,545,227	-	1,914,623
Fly spray	-	-	246,637	-	187,684
Gopher poison	-	-	18,040	-	6,066
Moth repellant	-	-	694,412	-	684,616
Rat and mouse poison	-	-	177,643	-	244,068
Other household	-	-	1,134,611	-	1,762,449
Livestock spray and powder	-	-	431,398	-	374,872
Iron oxide pigments, synthetic .....			.
Iron naphthenate .....			.
Isobutylene .....			.
Javel water	-	-	5,850,639	-	6,580,823
Lacquers, cellulose:					
Clear	gal.	1,631,376	4,686,474	1,604,731	4,100,011
Pigmented	"	669,363	2,885,975	674,552	2,858,969
Lead acetate .....			.
Lead arsenate .....			.
Lead naphthenate .....			.
Lead oxide:					
Red .....			.
Litharge .....			.
Lead, white:					
Dry .....			.
Ground in oil .....			.
Lecithin .....			.
Lighter fluid	-	-	189,993	-	223,824
Lime-sulphur solution	gal.	334,423	89,812	412,935	118,972
Magnesium stearate .....			.
Manganese naphthenate .....			.
Matches:					
In books	No. of books	468,154,540	1,708,407	483,690,308	1,837,654
Other	-	-	3,086,644	-	2,929,461
Medicinals and pharmaceuticals, other	-	-	60,374,000	-	63,192,514
Methyl hydrate:					
Refined .....			.
Crude .....			.
Muriate of potash (fertilizer):					
Milled, screened and bagged only	tons	1,550	84,930	1,746	94,742
Naphthalene .....			.
Nickel salts .....			.
Nitrous oxide .....			.
Nitrobenzol .....			.
Oil, sulphonated:					
Castor	lb.	1,156,036	249,836	745,246	161,919
Cocoanut	"	120,696	26,978	214,840	35,910
Cod	"	1,048,365	143,475	314,622	44,720
Neat's foot	"	360,359	71,870	246,780	45,219
Other blends	"	3,725,906	607,657	3,316,127	510,148
Oils:					
Castor, dehydrated .....			.
Cocoanut, crude .....			.
Core .....			.
Creosote	gal.	13,750,179	3,846,148	10,959,458	2,978,245
Lard .....			.
Linseed:					
Bolled	gal.	553,789	768,739	506,813	594,437
Processed	"	3,103,099	4,182,564	3,074,465	3,718,760
Raw (sold as such)	"	6,367,636	7,247,997	3,943,143	4,145,070
Neat's foot, cold-pressed .....			.
Soya bean, crude	tons	43,950	12,713,090	49,077	14,432,912

TABLE 12. Alphabetical List of Products Made in the Industries in the Chemicals and Allied Products Group, 1953 and 1954 - Continued

Item	1953		1954	
	Quantity	Selling value at works \$	Quantity	Selling value at works \$
Oils - concluded				
Soya bean, processed	tons 1,682	534,422	1,640	488,451
Stand, blown and enamel	gal. 46,436	47,830	42,257	43,525
Sunflower, crude				
Other	-	824,016	-	1,126,889
Oilcake and oilcake meal:				
Cocoonut				
Linseed	tons 75,942	6,137,763	61,079	4,657,205
Soya bean	" 207,127	15,911,631	234,616	19,406,619
Sunflower				
Oxygen in cylinders or delivered by pipeline	cu. ft. 811,270,828	7,057,062	747,316,892	6,603,981
Paint:				
Paste paints (not including water-paste paints)	lb. 3,691,073	1,002,264	2,626,727	712,902
Water-thinned paints:				
Resin emulsion paints, paste and semi-paste form:				
Interior	Imp. gal. 218,098	687,988	223,949	736,435
Exterior	" 19,769	52,234	28,895	92,318
Cold water paints:				
Interior, casein and protein bound:				
Dry and semi-paste form	Imp. gal. 26,181	54,634	35,724	79,380
Dry powder form	lb. 1,845,651	260,763	1,435,968	198,456
Glue bound	" 319,876	26,412	302,399	26,204
Exterior:				
Casein and protein bound	" 43,890	5,550	21,601	2,754
Lime or cement bound	" 1,921,748	256,240	1,821,551	241,670
Texture-type water paints	" 1,411,967	122,410	1,385,023	117,785
Calcmines:				
Hot water	" 773,692	64,437	420,279	40,063
Cold water	" 693,072	90,912	541,217	69,594
Ready-mixed paints	gal. 11,333,913	42,300,280	10,912,168	40,307,130
Paint and varnish remover	" 135,941	386,941	136,532	367,789
Paraldehyde				
Parathion				
Paste:				
Dry powder	-	318,578	-	291,966
Liquid, including mucilage	-	313,757	-	407,635
Penicillin				
Penicillin preparations	-	2,919,078	-	2,366,945
Pentasil acetate				
Perchloroethylene				
Phenol				
Phenothiazine				
Phosphorus:				
Amorphous				
Yellow				
Phenacetin				
Phosphorous sesquisulphide				
Phthalic anhydride				
Patching material:				
For walls	lb. 4,493,098	414,201	4,863,924	457,403
For floors	" 322,162	61,954	295,670	55,874
Pitch, coal tar	tons 132,737	4,783,378	135,912	4,756,895
Polish:				
Automobile (including wax)	-	485,160	-	332,952
Brass	-	101,950	-	85,577
Furniture	-	747,546	-	1,071,795
Shoe and shoe dressing	-	1,232,792	-	1,177,320
Silver	-	153,226	-	161,440
Stove	-	49,475	-	53,930
Other	-	307,595	-	273,400
Polyethylene film				
Polyvinyl alcohol				
Potassium chlorate				
Putty	lb. 11,158,748	314,065	10,343,913	768,739
Railway signal bombs and signal boxes	-	516,846	-	438,949
Rennet extract				
Resins, synthetic:				
Alkyd (for sale)		3,886,458		3,722,169
Casein				
Cellulose acetate				
Phenol-formaldehyde				
Polystyrene				
Urea-formaldehyde				
Vinyl acetate				
Vinyl chloride				
Rollers, printers'	-	669,111	-	876,912
Rust preventives	-	725,809	-	600,653

TABLE 12. Alphabetical List of Products Made in the Industries in the Chemicals and Allied Products Group, 1953 and 1954 - Continued

Item	1953		1954	
	Quantity	Selling value at works \$	Quantity	Selling value at works \$
Rubber plasticizers and accelerators .....		.	-	.
Rubber, synthetic	lb. 180,262,515	42,129,032	195,919,062	45,508,824
Sex hormones	-	2,254,608	-	2,098,008
Size, rosin	-	1,198,815	-	1,281,347
Soap:				
Castle:				
Boiled	lb. 356,671	68,635	339,680	78,843
Cold-pressed	" 599,458	140,454	458,724	108,522
Chips and flakes:				
Household packages	" 9,962,465	2,744,312	8,574,821	2,356,053
Bulk	" 11,600,905	1,200,183	10,210,459	1,183,475
Laundry, bar:				
Household:				
White	lb. 6,334,851	1,013,409	5,669,728	1,016,469
Yellow	" 14,952,094	2,116,538	13,050,426	1,993,533
Liquid	" 12,234,070	1,394,972	12,628,531	1,456,644
Polishing and scouring	" 91,277	9,957	85,631	8,525
Powder:				
Household packages	lb. 63,338,405	11,782,006	53,141,181	10,628,584
Bulk	" 10,604,450	1,303,167	9,381,348	1,305,954
Shaving cream:				
Lather	lb. 994,957	1,524,027	1,156,553	1,704,785
Brushless	" 429,716	434,451	363,792	363,935
Other	" 305,831	370,556	271,548	317,797
Soft, paste and jelly	" 3,927,571	413,243	3,972,853	446,924
Textile and mill	" 4,388,842	551,314	4,146,076	507,654
Toilet, bar	" 38,454,395	11,225,256	38,801,566	12,184,124
Other, hard	" 739,930	71,356	575,578	59,779
Other	" 1,702,653	213,565	2,318,165	249,217
Sodium acid pyrophosphate .....		.		.
Sodium arsenate .....		.		.
Sodium arsenite .....		.		.
Sodium azide .....		.		.
Sodium benzoate .....		.		.
Sodium carbonate:				
Soda ash .....		.		.
Sal soda	lb. 3,761,870	129,440	3,529,033	122,320
Sodium chlorate .....		.		.
Sodium cyanide .....		.		.
Sodium fluoride .....		.		.
Sodium hydrosulphide .....		.		.
Sodium hydroxide (caustic soda) (for sale)	lb. 296,459,277	8,393,168	294,250,410	8,340,213
Sodium hypochlorite .....		.		.
Sodium (di) phosphate .....		.		.
Sodium (mono) phosphate .....		.		.
Sodium (tetra) phosphate, anhydrous .....		.		.
Sodium (tri) phosphate .....		.		.
Sodium metabisulphite .....		.		.
Sodium silicate .....		.		.
Sodium stearate .....		.		.
Sodium sulphate (saltcake) .....		.		.
Sodium sulphamethazine .....		.		.
Sodium sulphite, anhydrous .....		.		.
Sodium thiosulphite .....		.		.
Sodium tripolyphosphate .....		.		.
Soldering flux .....		.		.
Stains (oil spirit, varnish, etc.)	gal. 348,673	924,973	352,970	893,814
Starches, blended .....		.		.
Stearine .....		.		.
Streptomycin .....		.		.
Streptomycin preparations	-	127,865	-	103,784
Sulphur dioxide, liquid .....		.		.
Styrene .....		.		.
Superphosphate fertilizer:				
Actually made .....		.		.
Milled, screened and bagged, only	tons 14,479	521,064	13,233	461,534
Sweeping compounds	-	634,919	-	685,308
2-ethylhexanol .....		.		.
Tankage	tons 3,215	146,920	3,137	211,211
Tanners' bate .....		.		.

TABLE 12. Alphabetical List of Products Made in the Industries in the Chemicals and Allied Products group, 1953 and 1954 - Concluded

Item	1953		1954	
	Quantity	Selling value at works	Quantity	Selling value at works
		\$		\$
Tar, refined	gal. 4,742,967	842,477	3,789,771	732,543
Textile and leather finishes	-	2,352,725	-	3,341,147
Thinners, for lacquers, paints and enamels	gal. 2,292,978	3,471,035	2,277,131	3,142,929
Toilet preparations (except dentifrices)	-	30,627,466	-	31,345,125
Trichlorethylene, crude	-	.	-	.
Turpentine	-	.	-	.
Toluene	-	.	-	.
Vanillin	-	.	-	.
Varnishes (Japans, shellac, etc.)	gal. 3,281,179	9,173,238	3,432,478	8,092,385
Veterinary medicines	-	1,525,415	-	1,684,794
Vinyl acetate	-	.	-	.
Vitamin preparations	-	12,282,451	-	12,354,717
Washing blue	-	.	-	.
Washing compounds, other	-	618,137	-	506,912
Wax, floor:				
Paste	lb. 8,201,651	3,012,544	8,040,937	3,047,489
Liquid	gal. 820,593	1,547,714	779,951	1,503,004
Self-polishing	2,368,284	6,648,033	2,575,442	6,726,679
Wax, sealing	-	.	-	.
Wax, paraffin, refined	-	.	-	.
Weed killer	-	2,360,757	-	1,674,889
Welding compounds	-	.	-	.
Zinc chloride (50% solution)	-	.	-	.
Zinc naphthenate	-	.	-	.
Zinc oxide	-	.	-	.
Zinc stearate	-	.	-	.
Zinc, white, in oil	-	.	-	.
All other products	-	79,391,153	-	112,757,930
Products reported by only one or two firms in this group (marked * above)	-	253,338,256	-	267,262,749
Total	-	881,503,845	-	935,724,880

TABLE 13. Imports into Canada and Exports of Chemicals and Allied Products, 1920-1954
(Values in 000's of dollars)

Year	Total Canada	From or to United Kingdom		From or to United States	
		\$	%	\$	%
(a) IMPORTS					
1920	40,010	6,811	17.0	31,330	79.6
1925	27,653	4,300	15.6	18,327	66.3
1930	36,785	4,709	12.8	23,960	65.0
1935	29,757	6,331	21.3	17,458	58.7
1940	51,324	7,546	14.5	41,493	80.1
1945	79,759	4,748	5.9	71,309	89.4
1950	158,221	14,047	8.9	134,603	85.1
1951	191,813	16,188	8.4	165,061	86.1
1952	187,713	12,225	6.5	166,249	88.6
1953	221,834	18,551	8.3	191,812	86.5
1954	220,406	18,590	8.4	190,489	86.4
(b) EXPORTS					
1920	21,432	4,159	19.5	11,644	54.3
1925	17,450	3,451	19.8	8,937	51.2
1930	16,321	3,332	20.4	9,003	55.2
1935	16,372	3,022	18.5	7,983	48.7
1940	31,223	8,343	26.7	10,846	34.7
1945	111,318	16,437	14.8	51,891	46.6
1950	100,525	5,993	6.0	58,499	58.5
1951	131,690	10,370	7.9	67,253	51.1
1952	124,565	9,712	7.8	75,107	80.3
1953	137,885	8,551	6.2	84,598	81.4
1954	161,293	15,676	9.8	85,910	53.3

STATISTICS CANADA LIBRARY
BIBLIOTHÈQUE STATISTIQUE CANADA



1010681661

