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CANADA



# CHEMICALS AND ALLIED PRODUCTS

## 1952

### GENERAL REVIEW

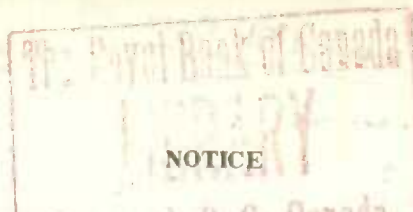
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The annual reports prepared by the Industry and Merchandising Division of the Bureau of Statistics are divided into 3 volumes, as follows: **Volume I** - The Primary Industries, including mining, forestry and fisheries; **Volume II** - Manufacturing; **Volume III** - Merchandising and Services. The volumes are made up of parts, and the parts in turn are subdivided according to the industries 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, by Provinces
  - Section 1. Principal Statistics of Major Industrial Groups and Leading Industries, 50¢
  - Section 2. Principal Statistics of Individual Industries, 75¢
  - Section 3. Principal Statistics by 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¢

*Canada. D.B.S.*

## CHEMICALS AND ALLIED PRODUCTS

1952

### GENERAL REVIEW

Production of chemicals and allied products in Canada totalled \$796.6 millions in 1952 compared with \$776.5 millions in 1951, an increase of about 2.3 per cent. The net value of production, or the value added by manufacturing, also advanced, the \$414.1 millions in 1952 being 7.8 per cent higher than the \$384.0 millions in 1951.

The gross values by industries for 1952 were as follows, in millions of dollars: Acids, alkalies and salts, \$114.2; fertilizers, \$78.7; medicinal and pharmaceutical preparations, \$88.0; paints and varnishes, \$107.4; primary plastics, \$34.6; soaps, washing compounds and cleaning preparations, \$84.5; toilet preparations, \$27.1; vegetable oils, \$51.9; inks, \$10.9; adhesives, \$10.8; polishes and dressings, \$16.0; compressed gases, \$16.2; coal tar distillation, \$12.6; and miscellaneous chemical products, \$143.5.

In the entire group there were 1,075 plants in 1952 with approximately 47,000 employees and an aggregate pay roll of \$147 millions. The 538 works in Ontario accounted for 59 per cent of the production and 49 per cent of the employees, and the 346 establishments in Quebec accounted for 29 per cent of the total output and 41 per cent of the workers. The other provinces with 191 plants accounted for about 12 per cent of the total Canadian production. Materials used in manufacturing processes cost \$357.8 millions and fuel and electricity cost \$24.7 millions.

Exports of chemicals and allied products showed a decline in 1952, the value of \$124.6 millions being about 6 per cent less than the \$131.7 millions in 1951. Exports to the United States amounted to \$75.1 millions or nearly 60 per cent of the total shipped to all foreign countries.

Imports at \$187.7 millions were about 2 per cent lower than the total of \$191.8 millions, in 1951. About 89 per cent of the imports in 1952 came from the United States while the United Kingdom accounted for about 6 per cent.

## CHEMICALS AND ALLIED PRODUCTS

TABLE 1. Principal Statistics for the Chemicals and Allied Products Group, by Industries, 1951 and 1952

Industry	Establishments	Employees	Salaries and wages for year	Cost of fuel and electricity at works	Cost of materials at works	Selling value of products at works	Net <sup>1</sup> value of production
	No.	No.	\$	\$	\$	\$	\$
<b>1951</b>							
Acids, alkalies and salts .....	29	7,371	24,579,398	11,127,663	39,238,794	117,822,758	67,456,301
Fertilizers .....	39	3,218	10,310,069	1,766,565	35,294,282	74,488,720	37,427,873
Medicinals and pharmaceuticals .....	206	7,481	18,917,850	719,135	28,414,566	89,248,867	60,115,166
Paints and varnishes .....	114	5,859	16,129,180	708,104	55,700,822	104,839,285	48,430,359
Primary plastics .....	16	1,648	5,402,853	707,334	20,571,434	39,370,423	18,091,655
Soaps, washing compounds and cleaning preparations .....	130	3,742	11,506,281	1,017,930	41,757,694	73,718,714	30,943,090
Toilet preparations .....	97	1,800	3,775,166	100,113	8,223,549	22,535,080	14,211,418
Vegetable oils .....	13	751	2,316,979	623,871	48,729,012	60,202,123	10,849,240
Inks .....	34	828	2,452,014	85,231	5,208,361	10,582,762	5,289,170
Adhesives .....	29	714	1,971,906	369,465	6,280,084	11,437,037	4,787,488
Polishes and dressings .....	49	800	1,852,790	76,898	6,399,459	13,244,675	6,768,318
Compressed gases .....	51	1,247	3,681,376	582,097	2,408,694	15,378,363	12,387,572
Coal tar distillation .....	11	468	1,442,776	668,588	7,077,237	12,077,290	4,331,465
Miscellaneous chemical products .....	219	9,737	26,971,513	6,952,561	61,653,707	131,543,294	62,937,026
<b>Total .....</b>	<b>1,037</b>	<b>45,664</b>	<b>131,310,151</b>	<b>25,505,555</b>	<b>366,957,695</b>	<b>776,489,391</b>	<b>384,026,141</b>
<b>1952</b>							
Acids, alkalies and salts .....	29	7,591	27,208,422	11,167,181	37,777,278	114,187,526	65,243,067
Fertilizers .....	39	3,205	11,325,300	1,887,038	38,450,277	78,743,491	38,406,176
Medicinals and pharmaceuticals .....	213	7,457	20,481,873	751,605	27,350,129	88,022,387	59,920,653
Paints and varnishes .....	116	5,784	17,220,333	732,978	53,118,889	107,406,164	53,554,297
Primary plastics .....	16	1,850	6,505,167	734,518	18,774,923	34,638,754	15,129,313
Soaps, washing compounds and cleaning preparations .....	136	3,756	12,755,324	1,079,655	35,013,348	84,461,282	48,368,279
Toilet preparations .....	101	1,870	4,244,777	115,434	9,720,012	27,059,783	17,224,337
Vegetable oils .....	13	723	2,428,287	581,146	44,478,536	51,931,990	6,872,308
Inks .....	34	854	2,584,220	88,821	4,839,331	10,923,553	5,995,401
Adhesives .....	30	706	2,128,897	367,382	6,106,121	10,838,879	4,365,376
Polishes and dressings .....	51	751	1,928,870	101,575	7,734,894	15,966,171	8,129,702
Compressed gases .....	47	1,250	3,889,969	468,401	2,425,663	16,201,464	13,307,400
Coal tar distillation .....	11	500	1,679,495	655,814	7,143,102	12,634,276	4,835,360
Miscellaneous chemical products .....	239	11,397	33,694,741	5,924,334	64,886,257	143,546,514	72,735,923
<b>Total .....</b>	<b>1,075</b>	<b>47,694</b>	<b>148,075,675</b>	<b>24,655,882</b>	<b>357,818,760</b>	<b>796,562,234</b>	<b>414,087,592</b>

1. Gross selling value less cost of materials, fuel and electricity.

TABLE 2. Principal Statistics for the Chemicals and Allied Products Group, by Provinces, 1951 and 1952

Province	Establishments	Employees	Salaries and wages for year	Cost of fuel and electricity at works	Cost of materials at works	Selling value of products at works	Net value of production
	No.	No.	\$	\$	\$	\$	\$
<b>1951</b>							
Newfoundland .....	6	74	159,912	12,660	659,436	988,021	315,925
Prince Edward Island and Nova Scotia .....	17	333	837,233	161,746	4,553,012	7,607,358	2,892,600
New Brunswick .....	7	132	330,996	54,721	2,785,704	3,692,802	852,377
Quebec .....	339	18,382	50,654,738	7,245,252	103,605,293	233,719,861	122,869,316
Ontario .....	513	22,762	67,419,867	16,745,100	217,922,907	447,264,455	212,596,448
Manitoba .....	42	735	1,648,868	142,037	7,310,831	12,819,198	5,366,330
Saskatchewan .....	8	163	500,009	28,063	994,356	1,842,123	819,704
Alberta .....	24	613	1,965,484	749,990	2,867,162	9,991,475	6,274,323
British Columbia .....	81	2,470	7,793,044	365,986	26,258,994	58,664,098	32,039,118
<b>Canada .....</b>	<b>1,037</b>	<b>45,664</b>	<b>131,310,151</b>	<b>25,505,555</b>	<b>366,957,695</b>	<b>776,489,391</b>	<b>384,026,141</b>
<b>1952</b>							
Newfoundland .....	5	73	182,565	14,566	637,423	1,197,423	545,434
Prince Edward Island and Nova Scotia .....	18	338	909,983	172,770	4,446,521	7,872,099	3,252,808
New Brunswick .....	7	158	448,120	60,743	2,957,217	4,297,093	1,279,133
Quebec .....	346	19,473	57,928,183	6,968,288	101,063,826	232,829,744	124,797,630
Ontario .....	538	23,367	75,031,200	16,071,755	212,188,860	466,018,240	237,757,625
Manitoba .....	43	719	1,740,157	135,797	6,960,325	12,601,574	5,505,452
Saskatchewan .....	8	158	536,694	24,524	530,857	1,270,308	714,927
Alberta .....	24	644	2,171,380	816,245	3,605,491	11,030,815	6,609,079
British Columbia and Northwest Territories ..	86	2,463	8,422,056	391,194	25,428,240	59,444,938	33,625,594
<b>Canada .....</b>	<b>1,075</b>	<b>47,393</b>	<b>147,370,318</b>	<b>24,655,882</b>	<b>357,818,760</b>	<b>796,562,234</b>	<b>414,087,592</b>

TABLE 3. Principal Statistics by Size of Establishment, for the Chemicals and Allied Products Group, 1952

	Establishments	Employees	Salaries and wages	Cost of fuel and electricity	Cost of materials	Gross value of production
	No.	No.	\$	\$	\$	\$
<b>(a) Employees</b>						
Under 5 .....	359	777	1,498,201	112,625	3,086,224	7,861,466
5 to 14 .....	299	2,508	6,564,716	500,288	19,402,027	40,845,165
15 to 49 .....	250	7,035	20,123,316	1,908,930	89,709,059	160,219,555
50 to 99 .....	87	5,892	16,093,511	1,290,366	44,157,360	95,520,913
100 to 199 .....	36	5,112	15,636,936	1,650,658	36,916,519	87,648,215
200 to 499 .....	29	9,330	31,189,697	5,905,441	78,433,780	182,685,103
500 and over .....	15	15,388	50,420,640	13,287,574	86,113,791	221,781,817
Head offices not located at plants .....	-	1,652	6,550,658	-	-	-
<b>Total .....</b>	<b>1,075</b>	<b>47,694</b>	<b>148,075,675</b>	<b>24,655,882</b>	<b>357,818,760</b>	<b>796,562,234</b>
<b>(b) Gross Production</b>						
Under \$25,000 .....	291	623	990,791	69,899	1,077,735	2,814,154
25,000 to 49,999 .....	109	565	1,165,999	80,104	1,610,561	3,995,824
50,000 to 99,999 .....	128	1,026	2,484,401	151,595	4,023,155	9,381,490
100,000 to 199,999 .....	111	1,388	3,595,668	197,272	6,916,198	16,293,434
200,000 to 499,999 .....	157	3,448	9,503,453	677,184	21,815,153	51,385,685
500,000 to 999,999 .....	130	5,873	16,662,487	1,290,347	41,367,906	94,521,494
1,000,000 to 4,999,999 .....	114	13,289	39,546,896	4,992,441	112,040,696	225,253,605
5,000,000 and over .....	35	19,830	67,575,302	17,197,040	168,967,356	392,916,548
Head offices not located at plants .....	-	1,652	6,550,678	-	-	-
<b>Total .....</b>	<b>1,075</b>	<b>47,694</b>	<b>148,075,675</b>	<b>24,655,882</b>	<b>357,818,760</b>	<b>796,562,234</b>

TABLE 4. New Investment in Durable Physical Assets and Repair and Maintenance, in the Chemicals and Allied Products Group, Canada, 1938-1952

Year	New investment			Repair and maintenance			Total
	Construction	Machinery and equipment	Sub-total	Construction	Machinery and equipment	Sub-total	
Millions of dollars							
1938 .....	2.9	3.4	6.3	1.0	2.2	3.2	9.5
1939 .....	1.0	2.4	3.4	0.9	2.8	3.7	7.1
1940 .....	1.9	4.5	6.4	2.1	3.4	5.5	11.9
1941 .....	3.2	8.9	12.1	3.4	5.2	8.6	20.7
1942 .....	5.3	4.7	10.0	3.7	6.0	9.7	19.7
1943 .....	2.5	3.1	5.6	5.7	5.7	11.1	16.7
1944 .....	1.4	1.6	3.0	3.7	8.1	11.8	14.8
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

TABLE 5. Employees and Their Earnings in the Chemicals and Allied Products Group, by Industries, 1951 and 1952

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				
						\$	\$	\$
<b>1951</b>								
Acids, alkalies and salts	1,435	441	5,440	55	7,371	7,150,131	17,429,267	24,579,398
Fertilizers	678	188	2,328	24	3,218	3,232,824	7,077,245	10,310,069
Medicinals and pharmaceuticals	1,623	1,355	2,240	2,263	7,481	9,793,263	9,124,587	18,917,850
Paints and varnishes	1,574	852	3,060	373	5,859	7,449,094	8,680,086	16,129,180
Primary plastics	452	157	989	50	1,648	2,293,335	3,109,518	5,402,853
Soaps, washing compounds and cleaning preparations	1,021	583	1,710	428	3,742	5,330,443	6,175,838	11,506,281
Toilet preparations	288	330	424	758	1,800	1,871,863	1,903,303	3,775,166
Vegetable oils	177	66	505	3	751	849,315	1,467,664	2,316,979
Inks	176	95	515	42	828	997,765	1,454,249	2,452,014
Adhesives	139	79	454	42	714	700,914	1,270,992	1,971,906
Polishes and dressings	217	154	255	174	800	1,015,550	837,240	1,852,790
Compressed gases	327	218	698	4	1,247	1,605,917	2,075,459	3,681,376
Coal tar distillation	78	19	368	3	468	362,681	1,080,095	1,442,776
Miscellaneous chemical products	2,097	858	5,491	1,291	9,737	10,317,359	16,654,156	26,971,513
<b>Total</b>	<b>10,282</b>	<b>5,395</b>	<b>24,477</b>	<b>5,510</b>	<b>45,664</b>	<b>52,970,452</b>	<b>78,339,699</b>	<b>131,310,151</b>
<b>1952</b>								
Acids, alkalies and salts	1,552	477	5,514	48	7,591	8,454,848	18,753,574	27,208,422
Fertilizers	704	207	2,268	23	3,202	3,663,953	7,646,861	11,310,814
Medicinals and pharmaceuticals	1,593	1,424	2,218	2,172	7,407	10,970,976	9,421,367	20,392,343
Paints and varnishes	1,573	866	2,943	370	5,752	8,096,301	9,028,717	17,125,018
Primary plastics	495	181	1,118	56	1,850	2,723,764	3,781,403	6,505,167
Soaps, washing compounds and cleaning preparations	940	559	1,750	427	3,676	5,549,050	7,030,275	12,579,325
Toilet preparations	240	366	438	794	1,836	2,044,557	2,130,328	4,174,885
Vegetable oils	177	64	479	3	723	939,721	1,488,566	2,428,287
Inks	169	97	522	54	842	1,034,109	1,509,702	2,543,811
Adhesives	144	80	434	40	698	742,017	1,364,270	2,106,287
Polishes and dressings	152	160	258	160	730	1,022,201	865,342	1,887,543
Compressed gases	337	225	666	2	1,250	1,679,805	2,210,164	3,889,969
Coal tar distillation	96	20	381	3	500	465,461	1,214,034	1,679,495
Miscellaneous chemical products	2,396	956	6,499	1,483	11,334	11,929,481	21,609,471	33,538,952
<b>Total</b>	<b>10,568</b>	<b>5,682</b>	<b>25,508</b>	<b>5,635</b>	<b>47,393</b>	<b>59,316,244</b>	<b>88,054,074</b>	<b>147,370,318</b>

TABLE 6. Employees and Their Earnings in the Chemicals and Allied Products Group, by Provinces, 1951 and 1952

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				
						\$	\$	\$
<b>1951</b>								
Newfoundland	12	5	44	13	74	60,337	99,575	159,912
Prince Edward Island and Nova Scotia	77	25	223	8	333	294,602	542,631	837,233
New Brunswick	20	7	103	2	132	84,769	246,227	330,996
Quebec	4,346	2,195	9,297	2,544	18,382	21,881,916	26,772,822	50,654,738
Ontario	4,937	2,871	12,251	2,703	22,762	26,728,136	40,691,731	67,419,867
Manitoba	167	85	389	94	735	676,447	972,421	1,648,868
Saskatchewan	75	37	46	5	163	377,459	122,550	500,009
Alberta	140	42	410	21	613	618,644	1,346,840	1,965,484
British Columbia	508	128	1,714	120	2,470	2,246,142	5,544,902	7,793,044
<b>Canada</b>	<b>10,282</b>	<b>5,395</b>	<b>24,477</b>	<b>5,510</b>	<b>45,664</b>	<b>52,970,452</b>	<b>78,339,699</b>	<b>131,310,151</b>
<b>1952</b>								
Newfoundland	10	5	46	12	73	51,993	130,572	182,565
Prince Edward Island and Nova Scotia	72	27	226	13	338	307,140	602,823	909,963
New Brunswick	22	8	126	2	158	102,186	345,934	448,120
Quebec	4,576	2,309	9,911	2,677	19,473	25,074,831	32,853,352	57,928,183
Ontario	4,981	3,032	12,644	2,710	23,367	29,422,098	45,609,102	75,031,200
Manitoba	164	66	380	69	719	714,260	1,025,897	1,740,157
Saskatchewan	71	37	45	5	158	405,432	131,262	536,694
Alberta	146	44	435	19	644	691,870	1,479,510	2,171,380
British Columbia and Northwest Territories	526	134	1,695	108	2,463	2,546,434	5,875,622	8,422,056
<b>Canada</b>	<b>10,568</b>	<b>5,682</b>	<b>25,508</b>	<b>5,635</b>	<b>47,393</b>	<b>59,316,244</b>	<b>88,054,074</b>	<b>147,370,318</b>

**TABLE 7. Production and Related Workers (Wage-earners) in the Chemicals and Allied Products Group, by Industries and by Months, 1952**

Month	Acids, alkalis and salts	Fertilizers	Medicinals and pharmaceuticals	Paints and varnishes	Primary plastics	Soaps and cleaning preparations	Toilet preparations			
	Number									
January .....	5,707	2,422	4,389	3,122	1,115	2,094	1,132			
February .....	5,629	2,292	4,449	3,152	1,130	2,150	1,136			
March .....	5,537	2,305	4,488	3,248	1,158	2,145	1,148			
April .....	5,582	2,491	4,436	3,367	1,180	2,161	1,191			
May .....	5,622	2,481	4,352	3,457	1,190	2,148	1,212			
June .....	5,614	2,222	4,377	3,497	1,181	2,173	1,207			
July .....	5,674	2,195	4,312	3,399	1,208	2,218	1,187			
August .....	5,690	2,247	4,328	3,327	1,183	2,194	1,308			
September .....	5,566	2,191	4,406	3,317	1,182	2,207	1,362			
October .....	5,421	2,138	4,379	3,310	1,177	2,262	1,356			
November .....	5,393	2,228	4,436	3,290	1,165	2,253	1,324			
December .....	5,306	2,273	4,327	3,274	1,215	2,132	1,241			
<b>Average .....</b>	<b>5,562</b>	<b>2,291</b>	<b>4,390</b>	<b>3,313</b>	<b>1,174</b>	<b>2,177</b>	<b>1,232</b>			
	Vegetable oils	Inks	Adhesives	Polishes and dressings	Compressed gases	Coal tar distillation	Miscellaneous	Total		
	Number									
January .....	489	575	490	407	653	385	7,450	30,430		
February .....	493	574	472	402	649	388	7,486	30,402		
March .....	481	581	459	428	655	388	7,538	30,559		
April .....	488	584	484	428	657	404	7,654	31,107		
May .....	478	582	497	430	683	400	7,933	31,465		
June .....	489	577	481	417	713	411	8,025	31,384		
July .....	439	573	467	424	738	414	8,184	31,432		
August .....	445	569	464	429	731	367	8,285	31,567		
September .....	496	567	465	411	713	372	8,331	31,586		
October .....	528	573	471	420	697	358	8,266	31,356		
November .....	524	578	474	407	691	368	8,329	31,460		
December .....	442	574	476	416	690	364	8,295	31,025		
<b>Average .....</b>	<b>482</b>	<b>576</b>	<b>474</b>	<b>418</b>	<b>688</b>	<b>384</b>	<b>7,982</b>	<b>31,143</b>		

**TABLE 8. Production and Related Workers (Wage-earners) in the Chemicals and Allied Products Group, by Provinces and by Months, 1952**

Month	Newfoundland	Prince Edward Island and Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia and Northwest Territories	Canada
	Number									
January .....	54	221	109	12,359	15,023	442	48	362	1,812	30,430
February .....	54	228	128	12,262	15,046	448	51	363	1,822	30,402
March .....	57	228	144	12,288	15,104	464	39	362	1,873	30,559
April .....	59	255	160	12,495	15,362	478	44	387	1,867	31,107
May .....	59	308	158	12,606	15,467	507	46	455	1,859	31,465
June .....	61	281	98	12,570	15,488	533	47	478	1,828	31,384
July .....	60	232	115	12,640	15,506	494	53	497	1,835	31,432
August .....	60	230	109	12,767	15,536	464	57	532	1,812	31,567
September .....	58	225	116	12,822	15,531	461	56	522	1,795	31,586
October .....	58	222	135	12,709	15,491	450	56	512	1,723	31,356
November .....	57	226	130	12,852	15,477	449	55	494	1,720	31,460
December .....	57	209	148	12,722	15,216	445	58	490	1,680	31,025
<b>Average .....</b>	<b>58</b>	<b>239</b>	<b>128</b>	<b>12,588</b>	<b>15,354</b>	<b>469</b>	<b>50</b>	<b>454</b>	<b>1,803</b>	<b>31,143</b>

TABLE 9. Materials Used in the Industries in the Chemicals and Allied Products Group, 1951 and 1952

Item	1951		1952		
	Quantity	Cost at works	Quantity	Cost at works	
		\$		\$	
Acetic anhydride .....	lb.	1,324,183	142,546	3,594,227	384,900
Acetone .....	lb.	3,005,742	391,221	3,172,122	396,576
Acetanilid .....	lb.	11,123	6,253	8,332	4,418
Acetylene .....	cu.ft.	177,798,714	1,143,584	148,876,201	1,113,364
Acid:					
Acetic .....	lb.	1,258,884	136,051	788,210	93,798
Acetylsalicylic .....	lb.	639,524	452,382	683,233	443,651
Arsenic (As <sub>2</sub> O <sub>3</sub> ) .....	lb.	963,451	83,622	966,870	49,038
Benzoic .....	lb.	144,282	48,783	186,795	65,995
Boric or boracic .....	lb.	174,757	18,563	179,325	18,915
Citric .....	lb.	863,533	249,524	807,417	228,227
Cresylic .....	lb.	210,233	26,771	275,361	40,090
Fatty, n.e.s. ....	lb.	1,557,020	194,950	675,717	69,768
Formic .....	lb.	119,935	30,514	119,375	28,953
Gallic .....	lb.	589	1,084	631	1,089
Hydrochloric (muriatic) .....	lb.	4,898,417	107,640	3,036,516	94,924
Naphthenic .....	lb.	1,975,942	217,354	1,942,000	213,620
Nitric .....	lb.	13,548,116	636,929	13,235,407	565,372
Oleic .....	lb.	1,045,359	201,588	1,094,928	153,665
Oxalic .....	lb.	80,606	16,158	392	105
Phosphoric .....	lb.	992,330	70,264	2,229,409	156,634
Stearic .....	lb.	1,478,085	326,648	1,412,002	205,532
Sulphuric .....	lb.	1,139,488,633	4,498,612	1,136,381,049	4,920,218
Tannic .....	lb.	4,041	6,061	3,694	4,173
Tartaric .....	lb.	691,089	324,597	482,605	188,330
Alcohol:					
Amyl (fusel oil) .....	gal.	1,851	1,852	1,997	3,929
Butyl .....	lb.	3,059,707	473,582	2,159,613	355,353
Ethyl .....	gal.	977,011	1,581,422	1,036,326	1,562,618
Isopropyl .....	lb.	not available	separately	1,576,506	178,518
Methyl (wood) refined .....	gal.	252,000	218,710	266,326	245,457
Aluminum rod, strip, etc. ....	lb.	56,943	21,788	41,082	19,279
Aluminum hydrate .....	lb.	22,479,960	449,599	28,234,040	705,851
Aluminum sulphate .....	lb.	1,024,911	23,697	1,082,002	23,205
Ammonia:					
Anhydrous .....	lb.	127,208,227	3,135,462	159,630,214	4,525,804
Liquor .....	—	—	1,533,783	—	1,623,530
Ammonium chloride .....	lb.	162,918	13,284	144,978	12,443
Ammonium nitrate .....	lb.	31,087,004	1,127,700	28,627,399	1,032,204
Ammonium phosphate .....	tons	9,151	592,806	9,051	789,960
Ammonium sulphate .....	tons	32,086	1,540,989	31,590	1,563,287
Amyl acetate .....	lb.	410,350	94,896	386,787	88,291
Arsenic, white (As <sub>2</sub> O <sub>3</sub> ) .....	lb.	41,308	3,562	114,314	8,624
Asphalt .....	gal.	6,446,982	1,186,103	3,612,726	501,468
Barium chloride .....	lb.	305,244	28,675	348,401	25,761
Barium nitrate .....	lb.	175,744	28,505	111,065	13,338
Barytes .....	lb.	2,721,999	95,190	2,436,167	88,476
Bentonite (filtrol, Pembins, etc.) .....	tons	653	57,331	726	61,104
Benzol .....	lb.	3,460,111	188,434	2,418,836	129,381
Bismuth metal .....	lb.	57,702	130,287	51,479	118,866
Bismuth salts .....	lb.	19,082	67,598	15,947	56,286
Black, lamp, bone and other, n.e.s. ....	lb.	305,568	65,186	323,856	71,668
Blanc fixe .....	lb.	488,109	23,655	462,726	18,123
Blood, dried .....	tons	42	4,297	51	5,555
Blue, ultramarine .....	lb.	251,081	70,806	257,469	77,658
Bone meal and bone flour .....	tons	54	4,303	86	7,104
Bones .....	tons	13,917	799,830	12,717	442,469
Borax .....	lb.	2,228,296	98,700	2,120,804	92,304
Brass rod, strip, etc. ....	lb.	1,821,350	619,252	1,244,271	450,826
Brucite fines .....	tons	52	1,144	89	2,102
Butyl acetate .....	lb.	4,557,365	657,057	3,375,671	571,974
Butyl cellulolve .....	lb.	78,990	21,014	65,860	18,938
Caffeine .....	lb.	19,256	96,385	22,294	94,582
Calcium arsenate .....	lb.	381,773	39,197	274,595	28,660
Calcium carbide .....	lb.	22,782,903	1,204,358	24,984,605	1,380,483
Calcium carbonate (ground chalk, whiting) .....	lb.	22,623,482	361,340	23,848,248	414,995
Calcium chloride .....	lb.	3,296,871	66,662	3,214,583	69,254
Calcium sulphate .....	lb.	1,791,230	31,037	1,493,895	22,792
Camphor .....	lb.	50,449	35,988	41,029	28,888
Carbon bisulphide .....	lb.	4,665,653	273,579	4,260,745	261,572
Carbon black .....	lb.	1,689,284	260,111	1,782,156	268,487
Carbon dioxide gas (unpurified) .....	—	—	10,712	—	45,110
Carbon tetrachloride .....	lb.	252,708	30,424	495,876	64,755
Casein .....	lb.	1,261,570	443,816	1,211,233	317,666
Chalk, precipitated .....	lb.	503,055	25,752	578,661	27,651
Charcoal .....	lb.	5,129,344	164,816	4,847,415	198,866
Chloride of lime .....	lb.	1,776,198	70,579	1,718,559	68,696
Chlorine, liquid .....	lb.	36,039,863	923,702	23,523,161	788,565
Coal:					
Anthracite (except for fuel) .....	tons	25,511	385,284	54,927	875,179
Bituminous (except for fuel) .....	tons	150	2,173	4,450	64,051
Cobalt acetate .....	lb.	12,800	13,845	3,850	4,466
Cobalt sulphate .....	lb.	80,750	76,713	68,624	69,539
Coke:					
Petroleum (except for fuel) .....	tons	27,076	552,806	13,585	252,855
For making carbon dioxide .....	tons	86	1,932	—	—
Other (except for fuel) .....	tons	284,936	5,218,297	266,528	4,854,972



TABLE 9. Materials Used in the Industries in the Chemicals and Allied Products Group, 1951 and 1952 - Continued

Items	1951		1952		
	Quantity	Cost at works	Quantity	Cost at works	
		\$		\$	
Colours, chrome (see also zinc chromate).....	lb.	2,441,960	989,792	2,448,173	956,727
Copper strip, sheet, etc. ....	lb.	101,242	27,356	2,278,460	364,589
Copper sulphate.....	lb.	589,663	90,793	450,956	92,442
Copra or dried coconut kernels.....	lb.	58,139,985	6,956,788	60,810,105	4,256,613
Cotton linters.....	lb.	337,626	88,049	421,394	68,829
Creosote.....	lb.	335,788	20,344	292,183	18,654
Cresol.....	lb.	1,017,843	157,471	708,945	116,071
D.D.T.....	—	—	505,218	—	374,871
Dextrine.....	lb.	8,256,343	820,037	7,518,731	816,937
Diatomaceous earth.....	tons	7,352	350,685	7,683	371,124
Dibutyl phthalate.....	lb.	210,401	69,833	279,052	89,727
Dinitrotoluene.....	lb.	127,204	16,315	177,173	31,495
Driers:					
Linoleate.....	lb.	66,614	24,329	57,870	20,722
Naphthenate.....	lb.	1,971,982	547,531	1,743,746	559,784
Resinate.....	lb.	74,439	20,730	56,108	16,484
Other.....	lb.	573,839	157,326	504,618	157,755
Dyes and colours, other.....	lb.	280,090	142,728	284,183	151,052
Electrodes.....	—	—	1,201,740	—	1,126,198
Ether, sulphuric.....	lb.	93,983	24,128	76,971	18,558
Ethyl acetate.....	lb.	6,225,717	655,807	5,744,576	707,636
Ethylene glycol.....	lb.	25,114,709	4,919,228	37,227,137	6,766,915
Feldspar.....	tons	3,127	44,912	2,815	42,571
Ferric chloride.....	lb.	183,738	7,870	237,402	10,792
Flaxseed.....	bu.	3,661,136	14,500,216	3,661,402	15,458,623
Flour:					
Potato.....	lb.	281,990	23,423	43,829	4,355
Soya bean.....	lb.	332,758	20,386	503,124	34,468
Tapioca.....	lb.	830,846	79,382	583,074	67,325
Wheat.....	lb.	5,783,453	245,053	4,572,007	200,869
Other.....	lb.	824,766	65,060	707,367	45,013
Fluorspar.....	tons	33,266	904,734	45,399	1,466,067
Foos, olive and cotton seed.....	lb.	6,338,032	603,750	6,034,213	290,008
Formaldehyde.....	lb.	21,680,959	964,151	20,886,711	909,754
Fuller's earth.....	tons	364	17,671	323	16,810
Glucose.....	lb.	1,192,687	101,792	1,190,512	101,178
Glue.....	lb.	2,803,629	650,820	3,464,209	762,799
Glycerine:					
Crude.....	lb.	3,762,478	1,651,284	1,704,275	421,155
Refined.....	lb.	9,533,756	5,659,883	8,922,856	3,375,317
Graphite.....	lb.	855,861	159,246	804,334	168,347
Grease.....	lb.	4,795,771	640,821	5,170,513	305,063
Gun powder.....	lb.	816,719	391,360	774,146	333,980
Herbs, roots and vegetable drugs.....	—	—	715,390	—	461,662
Hides and hide trimmings.....	tons	21,352	610,337	19,330	486,577
Hydrogen chloride, anhydrous.....	lb.	10,679,326	391,706	7,343,456	345,110
Iodine, crude.....	lb.	112,909	203,831	73,769	127,670
Iron, scrap.....	tons	7,465	253,882	6,312	226,026
Iron oxide pigments.....	lb.	5,891,167	467,059	4,881,858	406,781
Javel concentrate or sodium hypochlorite for dilution.....	—	—	57,861	—	72,559
Kaolin or china clay.....	lb.	4,841,677	92,957	5,169,408	95,147
Lanolin.....	lb.	114,002	36,500	115,535	42,959
Lead arsenate.....	lb.	80,129	15,428	59,627	10,671
Lead, basic carbonate, white, dry.....	lb.	1,777,863	389,580	1,866,763	385,715
Lead, basic carbonate, white, in oil.....	lb.	598,403	156,843	516,491	112,954
Lead, basic sulphate, white.....	lb.	483,082	71,343	463,537	91,440
Lead, pig.....	lb.	18,865,856	3,626,657	10,648,422	1,690,926
Lead, red.....	lb.	1,142,784	260,377	1,291,406	293,327
Lime:					
Hydrated.....	tons	53,614	136,702	29,274	136,782
Quick.....	tons	24,859	345,936	17,197	250,413
Land plaster.....	tons	84	1,348	578	12,473
Limestone.....	tons	1,055,290	2,057,801	1,004,722	1,913,360
Litharge.....	lb.	2,934,549	587,290	2,439,063	488,971
Lithopone.....	lb.	13,175,750	1,269,657	6,441,377	578,442
Lumber.....	M bd. ft.	978	135,112	612	95,069
Magnesium oxide.....	tons	1,233	56,033	1,375	60,630
Magnesium sulphate (Epsom salts).....	lb.	1,302,509	57,391	1,343,043	47,689
Mail extract.....	lb.	608,297	84,028	566,856	68,082
Meal, ivory nut and other.....	lb.	690,919	20,883	913,459	33,984
Menthol.....	lb.	11,098	106,579	15,483	113,417
Mercury metal.....	lb.	136,524	204,795	129,799	206,930
Mercuric oxide.....	lb.	9,631	14,865	2,525	3,915
Methyl chloride.....	lb.	3,720,350	480,567	3,579,400	439,221
Mica, ground.....	lb.	1,594,733	73,498	1,503,321	71,298
Nitrocellulose or nitrocotton.....	lb.	3,444,253	1,300,601	4,173,599	1,447,597
Ochres, siennas and umbers.....	lb.	498,303	50,851	454,950	49,738

TABLE 9. Materials Used in the Industries in the Chemicals and Allied Products Group, 1951 and 1952 - Continued

Item	1951		1952		
	Quantity	Cost at works	Quantity	Cost at works	
		\$		\$	
<b>Oil:</b>					
Castor.....	gal.	347,495	1,043,051	339,285	987,419
Castor, dehydrated.....	gal.	182,790	751,495	131,261	465,929
Chinawood (tung).....	lb.	5,495,943	1,941,798	4,965,807	1,750,370
Cocconut.....	lb.	20,278,394	3,934,741	20,773,569	2,480,837
Cod.....	lb.	750,908	109,366	818,469	107,331
Cod liver.....	lb.	519,894	135,963	365,477	103,575
Corn.....	lb.	44,018	5,020	102,180	18,903
Essential and perfume.....	—	—	2,647,316	—	2,818,644
Fish.....	lb.	3,582,597	615,939	2,088,252	270,326
Fish, hydrogenated.....	lb.	964,819	169,546	—	—
Linseed:					
Raw.....	gal.	1,933,913	3,935,470	2,201,746	3,687,300
Boiled and other.....	gal.	2,211,659	4,780,865	1,967,515	3,918,961
Polymerol.....	lb.	463,705	140,578	419,821	101,911
Varnol.....	lb.	612,559	168,821	347,127	96,203
Mineral, white.....	gal.	873,620	286,364	705,307	223,872
Mineral, other.....	lb.	2,411,592	271,712	2,587,013	275,744
Neat's foot.....	lb.	310,904	88,271	310,292	45,863
Oiticica.....	lb.	212,984	67,833	194,029	53,993
Olive.....	lb.	70,548	25,097	57,200	16,097
Palm.....	lb.	182,381	33,209	120,530	16,373
Peanut.....	lb.	2,300	480	—	—
Petroleum ink.....	lb.	992,308	229,482	1,113,642	284,585
Pine.....	lb.	228,994	30,962	354,267	49,148
Silicone.....	lb.	15,310	70,616	13,661	58,052
Soya bean.....	gal.	544,657	1,127,939	756,902	1,151,750
Sperm.....	lb.	323,958	63,118	538,931	72,718
Tall.....	lb.	2,692,146	171,528	2,435,076	145,372
Other.....	—	—	1,144,178	—	1,318,260
Paradichlorobenzene.....	lb.	1,015,180	183,469	925,121	148,553
Pentasol.....	lb.	500,900	108,122	452,232	91,453
Petrolatum.....	lb.	833,284	87,014	995,732	100,386
Petroleum distillates.....	gal.	7,487,412	2,631,810	7,609,476	2,518,768
Penicillin.....	—	—	1,233,627	—	945,548
Phenacetin.....	lb.	118,979	160,926	112,229	139,140
Phenobarbital and other barbiturates.....	lb.	24,855	174,830	36,175	222,573
Phenol.....	lb.	9,065,850	1,610,721	8,796,676	1,578,927
Phosphorus, amorphous.....	lb.	11,619	4,929	19,800	8,600
Phosphorus sesquisulphide.....	lb.	88,153	32,562	67,575	26,016
Phosphate rock.....	tons	492,616	6,965,525	483,889	7,072,810
Phthalic anhydride.....	lb.	8,398,535	2,116,181	8,678,008	2,020,160
Pigments, all colours and fillers, n.e.s.....	—	—	3,606,066	—	3,626,210
Pitch, coal tar.....	lb.	1,875,227	47,898	1,148,201	31,505
Plasticizers, n.e.s.....	lb.	2,528,312	1,063,794	2,440,493	864,082
Platinum.....	—	—	133,075	—	148,555
Polyvinyl chloride.....	lb.	2,114,766	761,316	2,330,248	898,014
Potassium bichromate.....	lb.	186,418	28,617	170,816	24,895
Potassium chlorate.....	lb.	1,126,404	120,320	1,068,868	121,165
Potassium chloride (muriate of potash).....	tons	97,345	3,943,712	103,286	3,932,232
Potassium hydroxide.....	lb.	1,884,637	151,803	1,902,945	145,583
Potassium iodide.....	lb.	58,546	105,432	29,567	62,470
Potassium magnesium sulphate.....	lb.	4,910,000	86,114	3,018,000	45,431
Potassium nitrate.....	lb.	590,810	53,294	864,380	81,036
Potassium perchlorate.....	lb.	119,135	27,848	105,934	19,982
Potassium sodium tartrate.....	lb.	14,540	4,724	19,257	6,120
Potassium sulphate.....	lb.	21,302,141	542,398	17,972,524	452,991
Powders, metallic (bronze, aluminum, etc.).....	lb.	765,212	419,924	734,315	361,819
Pyrethrum extract and powder.....	—	—	24,527	—	61,302
Pyrites.....	tons	70,859	551,800	65,291	583,472
Quartz and quartzite.....	tons	19,698	65,178	18,752	65,601
Quebracho extract.....	lb.	412,661	47,291	374,669	52,529
Rapeseed.....	lb.	4,082,795	142,870	—	—
Resins and gums, natural.....	lb.	7,716,213	1,055,578	6,507,036	847,529
Resins, synthetic, other.....	lb.	25,773,544	7,653,778	28,354,786	7,259,874
Resins, phenolic.....	lb.	3,447,334	961,919	2,908,004	827,982
Rosin.....	—	—	907,436	—	946,471
Rubber:					
Chlorinated.....	lb.	146,385	89,651	204,848	103,298
Latex.....	lb.	2,439,668	475,124	7,624,069	1,285,413
Sawdust.....	lb.	597,463	3,839	753,976	6,655
Shellac:					
Orange.....	lb.	297,744	165,491	354,408	152,672
Bleached.....	lb.	1,078,250	738,379	1,346,039	772,808
Other.....	lb.	185,908	125,361	475,335	301,718
Silica sand.....	tons	91,580	693,313	66,988	544,170
Silver bullion.....	troy oz.	322,281	305,777	267,133	225,989
Sodium azide.....	lb.	7,878	9,751	9,513	11,475
Sodium benzoate.....	lb.	15,436	3,951	12,112	5,585
Sodium bicarbonate.....	lb.	2,080,374	65,440	2,461,561	75,364

TABLE 9. Materials Used in the Industries in the Chemicals and Allied Products Group, 1951 and 1952 - Concluded

Item	1951		1952	
	Quantity	Cost at works \$	Quantity	Cost at works \$
Sodium bichromate.....lb.	1,015,473	134,548	806,146	109,431
Sodium bromide.....lb.	43,804	17,068	48,599	19,065
Sodium carbonate (soda ash).....lb.	105,400,796	2,021,734	97,796,659	1,990,269
Sodium carboxymethylcellulose.....lb.	402,480	88,766	605,426	128,932
Sodium chlorate.....lb.	5,624,266	471,322	6,538,309	553,847
Sodium chloride (brine).....lb.	764,104,000	452,039	885,849,780	501,941
Sodium chloride (common salt).....lb.	515,590,277	2,212,278	399,523,961	2,153,901
Sodium fluoride.....lb.	448,088	50,495	381,095	45,297
Sodium hydroxide (caustic soda).....lb.	69,581,823	2,321,272	66,238,047	2,226,302
Sodium, metallic.....lb.	35,625	7,921	50,250	10,426
Sodium metasilicate.....lb.	1,561,884	76,953	1,702,056	87,995
Sodium nitrate (chile saltpetre).....lb.	34,948,550	1,072,075	36,120,634	1,109,965
Sodium peroxide.....lb.	44,915	10,602	39,132	8,438
Sodium phosphate (di).....lb.	1,792,123	146,308	1,744,878	144,171
Sodium phosphate (tetra).....lb.	22,854	3,290	76,617	7,365
Sodium phosphate (tri).....lb.	9,073,049	527,044	8,168,139	461,387
Sodium salicylate.....lb.	17,780	13,808	22,992	12,146
Sodium silicate (water glass).....lb.	48,445,085	741,648	32,956,634	472,836
Sodium sulphate.....lb.	1,835,407	53,424	2,975,980	68,727
Sodium sulphide.....lb.	215,098	10,999	197,157	12,055
Solvents, n.e.s.....gal.	2,877,910	1,440,482	3,138,795	1,484,527
Soya beans.....lb.	446,271,484	24,992,860	431,359,280	22,408,905
Starch:				
Corn.....lb.	3,086,116	257,909	2,938,261	261,123
Other.....lb.	678,473	58,281	637,486	56,265
Strontium carbonate.....lb.	2,599	930	2,307	1,117
Strontium nitrate.....lb.	751,856	89,694	636,613	72,829
Strontium oxalate.....lb.	685	408	300	231
Strychnine.....lb.	1,786	24,996	1,439	23,262
Sugar.....lb.	3,922,642	387,155	4,243,105	384,530
Sulpha drugs.....-	-	705,627	-	537,781
Sulphur (elemental).....tons	103,310	3,024,117	94,557	2,855,672
Sulphur dioxide.....-	-	73,744	-	114,750
Sunflower seed.....lb.	12,350,009	470,121	7,269,879	254,480
Superphosphate:				
18%.....tons	22,609	441,601	23,360	478,373
30%.....tons	301,655	7,311,118	309,612	7,903,901
33-48%.....tons	18,265	643,184	9,944	585,445
Ammoniated 3-18-0.....tons	17	595	393	16,114
Talc.....lb.	28,619,510	548,878	31,863,115	588,419
Tallow, grease and other soap stock.....lb.	112,756,225	14,714,044	103,858,068	6,567,774
Tankage.....tons	142	3,944	130	7,571
Tar:				
Crude, coal.....gal.	38,550,813	5,143,946	39,944,733	5,595,957
Water gas, crude.....gal.	1,842,405	196,496	3,336,400	346,736
Tetryl.....lb.	24,200	22,305	27,000	25,069
Titanium pigments, white.....lb.	16,666,584	4,030,835	15,756,185	3,841,422
Titanium oxide, extended.....lb.	25,747,290	2,536,594	25,752,562	2,431,677
Toluol.....lb.	11,366,999	660,770	11,429,653	619,814
Trichlorethylene.....lb.	129,586	13,613	221,381	25,111
Trinitrotolol (T.N.T.).....lb.	841,191	159,194	1,430,764	281,854
Turpentine.....gal.	312,116	352,806	314,619	291,513
2,4-D.....lb.	1,223,069	574,335	1,148,828	679,875
Urea crystals.....lb.	4,719,401	287,224	3,578,931	233,039
Varnishes.....gal.	624,905	1,386,155	743,573	1,629,534
Vitamins (A, B, C and D).....-	-	1,023,896	-	1,058,406
Wax:				
Beeswax.....lb.	317,036	203,668	442,395	310,865
Candelilla.....lb.	73,363	53,673	61,061	46,243
Carnauba.....lb.	1,423,907	1,589,591	1,841,123	1,848,028
Ouricury.....lb.	60,109	55,360	36,986	29,265
Paraffin, including slack wax.....lb.	34,882,156	1,801,064	32,179,558	1,211,652
Synthetic.....lb.	96,623	66,717	59,839	35,231
Other.....lb.	2,553,983	587,615	2,945,932	680,002
Wood:				
Blocks and splints.....-	-	1,041,983	-	907,323
Flour.....lb.	2,351,488	66,070	1,723,976	44,001
Hardwood for distillation.....cord	22,405	229,228	20,415	255,718
Pulp.....lb.	18,980,314	1,603,686	19,700,424	1,696,122
Xylol.....gal.	471,091	283,955	644,318	374,721
Yarns.....lb.	1,110,379	667,130	1,071,342	623,777
Zinc chromate.....lb.	363,863	128,391	435,050	132,037
Zinc dross.....lb.	2,153,626	399,356	2,345,689	287,379
Zinc oxide:				
Pure.....lb.	5,049,306	934,182	5,071,927	927,353
Leaded.....lb.	2,219,946	436,610	1,680,382	292,476
Zinc spelter.....lb.	19,050,634	3,562,390	10,762,480	1,784,291
Zinc stearate.....lb.	18,341	12,525	16,952	8,798
Zinc sulphate.....lb.	251,604	22,531	145,974	12,050
Containers and packing material.....-	-	43,189,056	-	49,396,225
All other materials.....-	-	58,711,274	-	77,682,738
<b>TOTAL.....-</b>	<b>-</b>	<b>355,583,883</b>	<b>-</b>	<b>357,818,760</b>

**TABLE 10. Alphabetical List of Products Made in the Industries in the Chemicals and Allied Products Group 1951 and 1952**

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	1951		1952		
	Quantity	Selling value at works	Quantity	Selling value at works	
		\$		\$	
Acetaldehyde .....		•		•	
Acetic anhydride .....		•		•	
Acetone .....		•		•	
Acetylene black .....		•		•	
Acetylene in cylinders or delivered by pipe line .....	cu. ft.	136,043,698	4,207,520	152,024,204	4,957,888
Acid:		•		•	
Acetic, glacial, 99% .....		•		•	
Crotylic .....		•		•	
Crotonic .....		•		•	
Fatty, other .....	lb.	6,441,069	1,046,729	7,152,653	725,213
Hydrochloric (muriatic):		•		•	
Commercial .....		•		•	
C.P. ....		•		•	
Hydrofluosilicic .....		•		•	
Monochloro acetic .....		•		•	
Nitric:		•		•	
Commercial .....		•		•	
C.P. ....		•		•	
Oleic .....		•		•	
Phosphoric .....		•		•	
Stearic .....		•		•	
Sulphuric:		•		•	
Commercial, 100% (for sale) .....	lb.	1,469,328,994	7,823,071	1,422,416,209	7,864,023
C.P. ....		•		•	
Aluminum chloride .....		•		•	
Aluminum fluoride .....		•		•	
Aluminum stearate .....		•		•	
Aluminum sulphate .....		•		•	
Ammonia:		•		•	
Anhydrous .....		•		•	
Aqua .....		•		•	
Ammonia powder .....	lb.	2,384,860	170,110	1,915,270	169,561
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	368	22,022	562	37,830
Amyl acetate .....		•		•	
Anesthetics, other .....		•		•	
Aniline oil .....		•		•	
Anti-freeze preparations .....	Imp. gal.	1,585,463	4,313,483	2,697,651	6,868,736
Automobile chemicals (brake fluid, tar remover, etc.) .....		•		•	
Biological preparations and vaccines .....		•		•	
Boiler compounds .....		•		•	
Bone meal:		•		•	
Raw .....	lb.	339,178	14,242	2,554,000	92,285
Steamed .....	lb.	962,619	36,854	612,000	25,396
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 .....		•		•	
Carbon dioxide (in cylinders and solid) .....		•		•	
Carboxymethylcellulose .....		•		•	
Cellulose film .....		•		•	
Cellulose sponges .....		•		•	
Cement:		•		•	
Linoleum .....	gal.	585,653	381,139	511,988	476,003
Rubber .....	gal.	106,874	214,402	—	244,431
Other .....		•	1,383,059	—	691,046
Cerium .....		•		•	
Charcoal .....	tons	7,918	457,378	8,570	554,574
Chloride of lime .....	lb.	608,464	57,878	689,878	73,957
Chlorine:		•		•	
Gas .....	lb.	279,107	8,119	287,647	8,010
Liquid (for sale) .....	lb.	201,067,716	5,154,466	185,639,562	5,213,866
Chloroform .....		•		•	

TABLE 10. Alphabetical List of Products Made in the Industries in the Chemicals and Allied Products Group, 1951 and 1952 - Continued

Item	1951		1952	
	Quantity	Selling value at works	Quantity	Selling value at works
		\$		\$
Cleaners:				
Drain pipe, toilet flush .....	lb.	2,890,787	347,525	3,087,618
Hand .....	lb.	4,768,703	583,771	3,671,956
Glass .....	-	-	253,473	-
Cleaning and scouring powder and paste .....	lb.	30,947,160	2,873,895	35,652,237
Cleaning preparations, other .....	-	-	1,703,221	-
Cobalt naphthenate .....	-	-	.	.
Coke, pitch .....	-	-	.	.
Colours:				
Butter, cheese, etc. ....	-	-	.	.
Dry .....	-	-	2,246,352	-
In oils and japans .....	lb.	78,241	525,446	65,328
Copper naphthenate .....	-	-	.	.
Croton aldehyde .....	-	-	.	.
Cresol .....	-	-	.	.
Cryolite, recovered .....	-	-	.	.
D.D.T. products .....	-	-	1,696,626	-
Dentifrices, liquid, powder and paste .....	-	-	5,571,217	-
Detergents, synthetic .....	lb.	69,929,133	13,317,230	86,743,291
Dextrines .....	-	-	.	.
Dibutyl phthalate .....	-	-	.	.
Dichloroethyl ether .....	-	-	.	-
Dicyandiamide .....	-	-	.	.
Diocetyl phthalate .....	-	-	.	.
Disinfectants .....	-	-	767,242	-
Dressings and finishes, leather, except polish .....	-	-	896,404	-
Dyes:				
Leather .....	-	-	53,971	-
Embalming fluid .....	-	-	258,351	-
Enamels, ready-mixed, oil and synthetic type .....	gal.	6,304,863	28,234,536	6,286,691
Ethyl acetate .....	-	-	.	230,554
Ethylene oxide .....	-	-	.	.
Ethylene dichloride .....	-	-	.	.
Explosives and ammunition .....	-	-	.	.
Ferric chloride .....	-	-	.	.
Ferrophosphorus .....	-	-	.	.
Fertilizers, mixed .....	tons	693,230	28,967,317	644,583
Flavouring extracts .....	-	-	478,614	-
Flour bleaching compound .....	-	-	.	449,677
Fluorspar, flotation .....	-	-	.	.
Glue:				
Bone and hide .....	lb.	8,541,868	2,664,870	5,139,554
Casein .....	lb.	871,496	290,378	861,386
Fish .....	lb.	1,107,392	330,217	1,305,075
Flexible .....	lb.	1,948,717	504,621	2,083,501
Soya bean .....	lb.	477,550	85,679	629,050
Synthetic resin .....	lb.	13,159,685	1,752,850	16,400,681
Vegetable, dry .....	lb.	2,454,197	284,456	2,231,032
Vegetable, liquid .....	lb.	16,157,470	1,684,592	17,725,157
Other .....	lb.	325,991	89,647	634,949
Glycerine:				
Crude .....	lb.	2,817,694	1,252,851	3,805,060
Refined .....	lb.	10,098,721	6,502,379	9,204,269
Glycols:				
Ethylene .....	-	-	.	.
Diethylene .....	-	-	.	.
Triethylene .....	-	-	.	.
Guanidine nitrate .....	-	-	.	.
Hydrogen chloride, anhydrous .....	-	-	.	.
Hydrogen peroxide, liquid .....	-	-	.	.
Inks:				
Newspaper .....	lb.	11,826,075	1,129,396	12,589,413
Letterpress .....	lb.	4,443,925	3,942,161	4,424,663
Lithographing .....	lb.	3,488,769	3,158,132	3,035,212
Stamping .....	lb.	42,080	52,278	91,625
Other printing .....	lb.	2,251,038	806,329	1,927,857
Writing:				
Liquid .....	-	-	282,579	-
Powder and pellets .....	-	-	6,183	-
Insecticides, other:				
Agricultural dusts and sprays, not specified elsewhere .....	-	-	1,181,356	-
Fly spray .....	-	-	149,481	-
Gopher poison .....	-	-	37,653	-
Moth repellent .....	-	-	663,564	-
Rat and mouse poison .....	-	-	153,804	-
Other household .....	-	-	566,964	-
Livestock spray and powder .....	-	-	322,394	-
Iron oxide pigments, synthetic .....	-	-	.	.
Iron naphthenate .....	-	-	.	.
Isobutylene .....	-	-	.	.
Javel water .....	-	-	5,328,292	-
				6,366,873

TABLE 10. Alphabetical List of Products Made in the Industries in the Chemicals and Allied Products Group, 1951 and 1952 - Continued

Item	1951		1952		
	Quantity	Selling value at works	Quantity	Selling value at works	
		\$		\$	
Lacquers, cellulose:					
Clear.....	gal.	1,455,291	3,956,013	1,345,983	3,789,027
Pigmented.....	gal.	706,871	3,001,622	656,659	2,866,375
Lead acetate.....			.	.	
Lead arsenate.....			.	.	
Lead naphthenate.....			.	.	
Lead oxide:					
Red.....			.	.	
Litharge.....			.	.	
Lead, white:					
Dry.....			.	.	
Ground in oil.....			.	.	
Lecithin.....			.	.	
Lighter fluid.....	-	-	231,855	-	189,864
Lime-sulphur solution.....	gal.	359,233	83,743	392,752	97,865
Magnesium stearate.....			.	.	
Manganese naphthenate.....			.	.	
Matches:					
In books.....	No. of books	317,230,182	1,238,702	398,697,857	1,471,030
Other.....	-	-	2,991,962	-	3,305,866
Medicinals and pharmaceuticals, other.....	-	-	52,778,230	-	57,044,099
Methyl hydrate:					
Refined.....			.	.	
Crude.....			.	.	
Muriate of potash (fertilizer):					
Milled, screened and bagged only.....	tons	992	56,225	1,728	99,155
Naphthalene.....			.	.	
Nickel salts.....			.	.	
Nitrous oxide.....			.	.	
Nitrobenzol.....			.	.	
Oil, sulphonated:					
Castor.....	lb.	1,081,395	257,283	995,481	238,641
Cocoanut.....	lb.	99,474	24,819	113,858	26,197
Cod.....	lb.	808,124	125,238	924,609	137,593
Neat's foot.....	lb.	319,977	76,228	298,117	64,981
Other blends.....	lb.	3,854,186	749,233	3,268,898	551,928
Oils:					
Castor, dehydrated.....			.	.	
Cocoanut, crude.....			.	.	
Core.....			.	.	
Creosote.....	gal.	11,726,520	3,104,240	11,608,114	3,226,226
Lard.....			.	.	
Linseed:					
Boiled.....	gal.	857,123	1,711,608	622,056	1,148,468
Processed.....	gal.	4,136,613	7,919,065	3,236,802	7,071,334
Raw (sold as such).....	gal.	4,111,330	6,866,661	4,085,762	7,066,498
Neat's foot, cold pressed.....			.	.	
Soya bean, crude.....	tons	36,859	16,558,530	35,687	10,323,951
Soya bean, processed.....	tons	430	207,456	109	40,002
Stand, blown and enamel.....	gal.	8,148	88,880	55,847	71,001
Sunflower, crude.....			.	.	
Other.....	-	-	1,307,250	-	1,060,377
Oilcake and oil cake meal:					
Cocoanut.....			.	.	
Linseed.....	tons	63,185	4,705,664	59,072	4,981,043
Soya bean.....	tons	178,399	13,295,231	171,390	15,474,894
Sun flower.....			.	.	
Oxygen in cylinders or delivered by pipe line.....	cu. ft.	794,054,423	6,893,420	882,449,080	7,840,421
Paint:					
Paste paints (not including water-paste paints).....	lb.	5,301,980	1,181,285	4,114,024	1,006,491
Water-thinned paints:					
Resin emulsion paints, paste and semi-paste form:					
Interior.....	imp. gal.	1,014,612	3,630,852	371,532	1,159,859
Exterior.....	imp. gal.				
Cold water paints:					
Interior, casein and protein bound:					
Dry and semi-paste form.....	imp. gal.	60,690	76,596	41,463	82,234
Dry powder form.....	lb.	2,937,169	386,475	2,436,015	290,212
Glue bound.....	lb.	730,089	69,356	747,516	58,661
Exterior:					
Casein and protein bound.....	lb.	62,804	7,949	124,897	19,314
Lime or cement bound.....	lb.	1,447,252	177,400	2,073,318	216,007
Texture-type water paints.....	lb.	1,760,247	149,205	1,874,622	148,851
Calcimines:					
Hot water.....	lb.	2,023,323	137,694	1,629,044	118,786
Cold water.....	lb.	775,940	62,642	659,995	64,174
Ready-mixed paints.....	gal.	11,308,452	41,770,982	10,643,024	40,129,346
Paint and varnish remover.....	gal.	112,991	305,225	103,168	298,617
Paraldehyde.....			.	.	
Parathion.....			.	.	
Paste:					
Dry powder.....	-	-	442,832	-	337,900
Liquid, including mucilage.....	-	-	310,391	-	251,158

TABLE 10. Alphabetical List of Products Made in the Industries in the Chemicals and Allied Products Group, 1951 and 1952 - Continued

Item	1951		1952	
	Quantity	Selling value at works	Quantity	Selling value at works
Penicillin .....		\$		\$
Penicillin preparations .....	-	4,435,545	-	3,169,057
Pentacetyl acetate .....		.		.
Perchloroethylene .....		.		.
Phenol .....		.		.
Phenothiazine .....		.		.
Phosphorus:		.		.
Amorphous .....		.		.
Yellow .....		.		.
Phenacetin .....		.		.
Phosphorous sesquisulphide .....		.		.
Phthalic anhydride .....		.		.
Patching material:		.		.
For walls .....	lb. 3,246,491	255,391	4,138,310	349,045
For floors .....	lb. 198,148	28,869	350,629	66,525
Pitch, coal tar .....	tons 112,141	3,875,498	131,742	4,477,039
Polish:		.		.
Automobile (including wax) .....	-	331,242	-	349,991
Brass .....	-	69,605	-	106,877
Furniture .....	-	742,975	-	857,400
Shoe and shoe dressing .....	-	1,056,923	-	1,098,656
Silver .....	-	155,008	-	161,225
Stove .....	-	71,950	-	57,934
Other .....	-	218,189	-	203,686
Polyethylene film .....		.		.
Polyvinyl alcohol .....		.		.
Potassium chlorate .....		.		.
Putty .....	lb. 11,031,986	807,415	11,175,893	816,501
Railway signal bombs and signal boxes .....	-	573,663	-	559,515
Rennet extract .....		.		.
Resins, synthetic:		.		.
Alkyd (for sale) .....	lb. 6,291,458	1,901,670	14,463,616	2,986,972
Casein .....		.		.
Cellulose acetate .....		.		.
Phenol-formaldehyde .....		.		.
Polystyrene .....		.		.
Urea-formaldehyde .....		.		.
Vinyl acetate .....		.		.
Vinyl chloride .....		.		.
Rollers, printers' .....	-	591,357	-	623,587
Rust preventatives .....	-	713,590	-	649,859
Rubber plasticizers and accelerators .....		.		.
Rubber, synthetic .....	lb. 139,578,244	34,647,865	165,694,185	38,470,052
Sex hormones .....	-	1,255,574	-	2,502,689
Size, rosin .....	-	1,283,848	-	1,141,572
Soap:		.		.
Castile:		.		.
Boiled .....	lb. 1,097,939	184,179	812,535	155,569
Cold pressed .....	lb. 555,770	107,340	558,447	115,295
Chips and flakes:		.		.
Household packages .....	lb. 10,777,900	2,462,488	9,356,390	2,369,751
Bulk .....	lb. 12,353,950	1,730,927	11,352,511	1,355,186
Laundry, bar:		.		.
Household:		.		.
White .....	lb. 8,736,741	987,933	7,048,886	1,159,674
Yellow .....	lb. 16,203,121	2,467,550	16,660,017	2,419,686
Liquid .....	lb. 11,955,128	1,516,799	11,052,503	1,260,445
Polishing and scouring .....	lb. 850,139	102,708	125,718	23,020
Powder:		.		.
Household packages .....	lb. 75,028,660	12,547,348	75,787,406	15,179,859
Bulk .....	lb. 10,981,044	1,323,106	11,250,932	1,516,480
Shaving cream:		.		.
Lather .....	lb. 1,030,898	1,359,007	964,613	1,419,373
Brushless .....	lb. 459,342	414,833	373,665	384,962
Other .....	lb. 349,379	394,293	289,301	369,094
Soft, paste and jelly .....	lb. 2,124,295	276,223	2,881,700	361,803
Textile and mill .....	lb. 4,582,569	677,056	5,019,496	656,259
Toilet, bar .....	lb. 35,650,023	10,479,298	37,085,432	10,352,814
Other, hard .....	lb. 1,724,139	214,331	1,831,927	188,945
Other .....	lb. 2,802,490	354,730	2,869,067	309,660
Sodium acid pyrophosphate .....		.		.
Sodium arsenate .....		.		.
Sodium arsenite .....		.		.
Sodium azide .....		.		.
Sodium benzoate .....		.		.
Sodium carbonate:		.		.
Soda ash .....		.		.
Sal soda .....	lb. 4,114,266	124,929	4,162,473	127,258
Sodium chlorate .....		.		.
Sodium cyanide .....		.		.
Sodium fluoride .....		.		.
Sodium hydrosulphide .....		.		.
Sodium hydroxide (caustic soda) (for sale) .....	lb. 305,354,290	8,824,140	275,630,509	7,691,189
Sodium hypochlorite .....		.		.
Sodium (di) phosphate .....		.		.
Sodium (mono) phosphate .....		.		.
Sodium (tetra) phosphate, anhydrous .....		.		.
Sodium (tri) phosphate .....		.		.
Sodium metabisulphite .....		.		.

TABLE 10. Alphabetical List of Products Made in the Industries in the Chemicals and Allied Products group, 1951 and 1952 - Concluded

Item	1951		1952	
	Quantity	Selling value at works	Quantity	Selling value at works
		\$		\$
Sodium silicate .....		.		.
Sodium stearate .....		.		.
Sodium sulphate (saltcake) .....		.		.
Sodium sulphamethazine .....		.		.
Sodium sulphite, anhydrous .....		.		.
Sodium thiosulphite .....		.		.
Sodium tripolyphosphate .....		.		.
Soldering flux .....		.		.
Stains (oil spirit, varnish, etc.) .....	gal.	429,840	432,736	1,147,453
Starches, blended .....		.		.
Stearine .....		.		.
Streptomycin .....		.		.
Streptomycin preparations .....	-	319,533	-	93,373
Sulphur dioxide, liquid .....		.		.
Styrene .....		.		.
Superphosphate fertilizer:		.		.
Actually made .....		.		.
Milled, screened and bagged, only .....	tons	16,051	13,179	486,172
Sweeping compounds .....	-	568,824	-	805,518
2-ethylhexanol .....		.		.
Tankage .....	tons	3,505	2,960	170,571
Tanners' bate .....		.		.
Tar, refined .....	gal.	2,235,783	3,976,884	715,905
Textile and leather finishes .....	-	2,529,782	-	2,406,509
Thinners, for lacquers, paints and enamels .....	gal.	2,006,844	2,150,810	3,155,209
Toilet preparations (except dentifrices) .....	-	24,770,217	-	28,123,254
Trichlorethylene, crude .....		.		.
Turpentine .....		.		.
Toluene .....		.		.
Vanillin .....		.		.
Varnishes (Japans, shellac, etc.) .....	gal.	3,950,283	3,342,858	9,120,851
Veterinary medicines .....	-	1,058,107	-	1,091,829
Vinyl acetate .....		.		.
Vitamin preparations .....	-	12,983,796	-	12,728,461
Washing blue .....		.		.
Washing compounds, other .....	-	420,293	-	609,225
Wax, floor:		.		.
Paste .....	lb.	7,796,849	8,469,139	2,898,934
Liquid .....	gal.	395,406	731,775	1,436,850
Self-polishing .....	gal.	1,699,958	2,190,580	6,067,575
Wax, sealing .....		.		.
Wax, paraffin, refined .....		.		.
Weed killer .....	-	2,943,189	-	2,472,137
Welding compounds .....		.		.
Zinc chloride (50% solution) .....		.		.
Zinc naphthenate .....		.		.
Zinc oxide .....		.		.
Zinc stearate .....		.		.
Zinc, white, in oil .....		.		.
All other products .....	-	54,617,561	-	60,960,685
Products reported by only one or two firms in this group (marked* above) .....	-	220,869,162	-	216,768,934
<b>Total</b> .....	-	<b>776,489,391</b>	-	<b>796,562,234</b>

TABLE 11. Imports into Canada and Exports of Chemicals and Allied Products, 1920-1952

(Values in 000's of dollars)

Year	Total Canada	From or to United Kingdom		From or to United States	
		\$	%	\$	%
<b>(a) IMPORTS</b>					
1920 .....	40,010	6,811	17.0	31,330	78.8
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 .....	51,824	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	8.5	166,249	88.8
<b>(b) EXPORTS</b>					
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	60.3



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