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CANADA



CHEMICALS AND ALLIED PRODUCTS
1951
General Review

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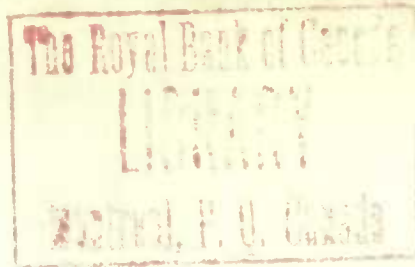
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NOTICE

The annual reports prepared by the Industry and Merchandising Division of the Bureau of Statistics are divided into 4 volumes, as follows: **Volume I**—The Primary Industries, including mining, forestry and fisheries; **Volume II**—Manufacturing; **Volume III**—Construction; **Volume IV**—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
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- X—Iron and Steel Products
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- 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 Fertilizer Manufacturing 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¢.

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CHEMICALS AND ALLIED PRODUCTS

1951

General Review

Production of chemicals and allied products in Canada soared about 20 per cent in value in 1951 to a record total of \$776 millions. This total was double the corresponding figure for 1946 and about five times the pre-war high of \$159 millions in 1939. Higher prices for chemicals and chemical products, of course, accounted for a substantial share of the gains in output values in recent years, but in terms of physical volume it appears that the gain in 1951, compared with 1950, was about 6 per cent and with 1939 about 140 per cent.

All but one of the industries in the chemicals and allied products group showed substantial gains in output value in 1951 compared with the previous year. The percentage increases were as follows:— coal tar distillation, 20; heavy chemicals, 35; compressed gases, 21; fertilizers, 8; medicinals and pharmaceuticals, 17; paints and varnishes, 13; soaps and cleaning preparations, 12; toilet preparations, 8; inks, 4; vegetable oils, 28; adhesives, 18; primary plastics, 28; miscellaneous chemical products, 31. Output from the polishes and dressings industry was slightly less than in 1950.

In the entire group there were 1,037 plants in 1951 with approximately 46,000 employees and an aggregate pay roll of \$131 millions. The 513 works in Ontario accounted for 58 per cent of the production and 51 per cent of the employees, and the 339 establishments in Quebec accounted for 30 per cent of the total output and 38 per cent of the workers. British Columbia with 81 plants accounted for less than 8 per cent of the total Canadian production.

Exports of chemicals and allied products again showed a substantial increase, the value in 1951 amounting to \$131 millions compared with \$100 millions in 1950 and with \$71 millions in 1949. Gains were quite general throughout the list of items except for nitrogen fertilizers for which there was a decline of about 9 per cent. However, fertilizers at \$35.7 millions accounted for 27 per cent of the total export shipments. Sodium compounds totalled \$9.7 millions; polystyrene, \$6.8 millions; synthetic resins, \$3.5 millions; acids, \$5.8 millions; medicinals, including penicillin and streptomycin, \$5.5 millions; paints and pigments, \$8.0 millions; and calcium compounds, \$2.7 millions. Exports to the United States amounted to \$67 millions or nearly 52 per cent of the total shipped to all foreign countries.

Imports rose about 28 per cent to \$191.8 millions with substantial gains again in all of the principal classes. Drugs and pharmaceuticals increased 20 per cent to \$22 millions; pigments and paints jumped 14 per cent to \$21 millions; dyeing and tanning materials, 7 per cent to \$14 millions; inorganic chemicals, 16 per cent to \$27 millions and miscellaneous chemicals, 28 per cent to \$78 millions. About 86 per cent of the imports in 1951 came from the United States, and 8.4 per cent from the United Kingdom; Germany, Switzerland and France were the other principal suppliers.

CHEMICALS AND ALLIED PRODUCTS

TABLE 1. Principal Statistics for the Chemicals and Allied Products Group, by Industries, 1950 and 1951

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 ¹ value of production
	No.	No.	\$	\$	\$	\$	\$
1950							
Acids, alkalis and salts	28	6,020	18,039,492	8,639,420	30,327,614	87,494,365	48,527,331
Fertilizers	36	3,253	9,422,571	1,996,118	33,349,706	68,996,819	33,650,995
Medicinals and pharmaceuticals.....	210	7,524	16,637,745	652,909	24,621,090	76,372,691	51,098,692
Paints and varnishes.....	109	5,929	14,569,020	682,488	49,870,382	92,999,193	42,446,323
Primary plastics.....	14	1,392	3,965,070	603,388	14,000,584	30,728,353	16,124,381
Soaps, washing compounds and cleaning preparations	142	3,735	10,339,733	1,093,198	34,749,803	66,048,105	30,205,104
Toilet preparations.....	98	1,862	3,423,935	90,071	7,679,500	20,950,830	13,181,259
Vegetable oils.....	15	792	2,155,085	524,066	40,213,298	47,026,547	6,289,183
Inks.....	30	796	2,230,151	79,948	4,570,554	10,217,715	5,567,213
Adhesives.....	28	669	1,723,015	364,849	5,086,086	9,679,396	4,228,461
Polishes and dressings	54	782	1,714,614	75,566	6,325,223	13,377,393	6,976,614
Compressed gases.....	50	1,240	3,239,598	493,054	1,873,977	12,737,319	10,370,288
Coal tar distillation.....	11	457	1,274,395	633,181	6,057,087	10,033,238	3,342,970
Miscellaneous chemical products.....	208	7,024	18,059,979	6,069,812	48,980,837	100,208,546	45,157,897
Total.....	1,033	41,475	106,794,403	21,998,058	307,705,741	646,870,510	317,166,711
1951							
Acids, alkalis 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	12,387,372
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	62,937,035
Total.....	1,037	45,664	131,310,151	25,505,555	366,957,695	776,489,391	384,026,141

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

TABLE 2. Principal Statistics for the Chemicals and Allied Products Group, by Provinces, 1950 and 1951

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.	\$	\$	\$	\$	\$
1950							
Newfoundland.....	6	75	151,304	13,595	558,319	988,094	416,180
Prince Edward Island and Nova Scotia	17	344	784,797	144,680	4,217,864	6,435,938	2,073,394
New Brunswick.....	7	136	346,113	57,371	3,237,908	4,292,968	997,689
Quebec.....	336	15,159	38,229,360	5,248,920	86,463,568	187,265,942	95,553,454
Ontario.....	515	21,755	56,721,101	15,182,162	180,932,103	375,896,422	179,782,157
Manitoba.....	44	761	1,567,404	132,872	6,872,458	12,070,271	5,064,941
Saskatchewan.....	11	233	579,154	35,542	1,299,810	1,983,612	648,260
Alberta.....	21	575	1,613,451	840,090	2,322,082	8,330,625	5,168,453
British Columbia.....	76	2,437	6,801,719	342,826	21,801,629	49,606,638	27,462,183
Canada.....	1,033	41,475	106,794,403	21,998,058	307,705,741	646,870,510	317,166,711
1951							
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	5,366,230
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	9,891,475	6,274,423
British Columbia.....	81	2,470	7,793,044	365,986	26,258,994	58,664,098	32,039,118
Canada.....	1,037	45,664	131,310,151	25,505,555	366,957,695	776,489,391	384,026,141

TABLE 3. Principal Statistics by Size of Establishments, for the Chemicals and Allied Products Group, 1951

	Establishments	Employees	Salaries and wages	Cost of fuel and electricity	Cost of materials	Gross value of production
	No.	No.	\$	\$	\$	\$
(a) Employees						
Under 5.....	333	710	1,255,975	124,388	3,313,752	7,492,239
5 to 14.....	288	2,448	6,101,679	523,778	18,226,170	38,202,140
15 to 49.....	247	6,831	18,130,959	1,859,763	88,722,972	154,719,803
50 to 99.....	91	6,093	15,528,687	1,368,890	52,029,105	105,152,778
100 to 199.....	35	5,042	14,528,119	1,547,574	38,711,236	85,811,619
200 to 499.....	30	9,327	30,197,291	6,907,065	89,660,887	187,313,266
500 and over.....	13	13,258	40,030,588	13,174,097	76,293,573	197,797,546
Head offices not located at plants.....	—	1,455	5,536,873	—	—	—
Total.....	1,037	45,664	131,310,151	25,505,555	366,957,695	776,489,391
(b) Gross Production						
Under \$5,000.....	91	200	330,395	11,755	83,296	248,635
5,000 to 24,999.....	194	535	837,031	51,452	1,025,321	2,581,024
25,000 to 49,999.....	94	525	1,072,286	71,907	1,473,710	3,452,503
50,000 to 99,999.....	118	986	2,217,831	168,549	3,975,625	8,599,045
100,000 to 199,999.....	116	1,554	3,628,525	251,469	6,866,215	16,962,760
200,000 to 499,999.....	163	3,805	9,843,748	797,135	23,636,379	54,558,515
500,000 to 999,999.....	126	6,068	15,839,631	1,169,861	42,653,390	94,228,058
1,000,000 to 4,999,999.....	101	12,216	33,808,487	4,973,980	114,545,550	220,205,275
5,000,000 and over.....	34	18,320	58,195,354	18,009,447	172,698,209	375,653,576
Head offices not located at plants.....	—	1,455	5,536,873	—	—	—
Total.....	1,037	45,664	131,310,151	25,505,555	366,957,695	776,489,391

TABLE 4. New Investment in Durable Physical Assets and Repair and Maintenance, Chemicals and Allied Products Industries, Canada, 1936-1951

Year	New investment			Repair and maintenance			Total
	Construction	Machinery and equipment	Sub-total	Construction	Machinery and equipment	Sub-total	
(Millions of dollars)							
1936.....	0.4	2.3	2.7	1.5	1.2	2.7	5.4
1937.....	5.5	2.0	7.5	1.6	1.4	3.0	10.5
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	5.4	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	15.6	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

CHEMICALS AND ALLIED PRODUCTS

TABLE 5. Employees and Their Earnings in the Chemicals and Allied Products Group, by Industries, 1950 and 1951

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				
						\$	\$	\$
1950								
Acids, alkalis and salts	1,136	341	4,496	47	6,020	5,295,689	12,743,803	18,039,492
Fertilizers	712	198	2,319	24	3,253	3,005,055	6,417,516	9,422,571
Medicinals and pharmaceuticals	1,550	1,373	2,294	2,307	7,524	8,623,007	8,014,738	16,637,745
Paints and varnishes	1,669	821	3,045	394	5,929	6,630,407	7,938,613	14,569,020
Primary plastics	346	138	862	46	1,392	1,555,823	2,409,247	3,965,070
Soaps, washing compounds and cleaning preparations	1,025	539	1,738	433	3,735	4,754,522	5,585,211	10,339,733
Toilet preparations	299	332	412	819	1,862	1,692,106	1,731,829	3,423,935
Vegetable oils	203	64	522	3	792	852,006	1,303,079	2,155,085
Inks	171	97	484	44	796	959,179	1,270,972	2,230,151
Adhesives	139	74	420	36	669	631,275	1,091,740	1,723,015
Polishes and dressings	201	142	266	173	782	922,019	792,595	1,714,614
Compressed gases	318	243	678	1	1,240	1,444,267	1,795,331	3,239,598
Coal tar distillation	80	28	349	-	457	331,642	942,553	1,274,395
Miscellaneous chemical products	1,640	733	3,845	806	7,024	7,648,831	10,411,148	18,059,979
Total	9,489	5,123	21,730	5,133	41,475	44,346,028	62,448,375	106,794,403
1951								
Acids, alkalis 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	2,233,335	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	658	5,491	1,291	9,737	10,317,359	16,654,156	26,971,515
Total	10,282	5,395	24,477	5,510	45,664	52,970,452	78,339,699	131,310,151

TABLE 6. Employees and Their Earnings in the Chemicals and Allied Products Group, by Provinces, 1950 and 1951

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				
						\$	\$	\$
1950								
Newfoundland	13	3	42	17	75	52,597	98,707	151,304
Prince Edward Island and Nova Scotia	68	26	238	10	344	254,881	529,916	784,797
New Brunswick	23	8	104	1	136	76,981	269,132	346,113
Quebec	3,930	2,006	7,105	2,118	15,159	17,982,884	20,246,476	38,229,360
Ontario	4,594	2,752	11,642	2,767	21,755	22,493,202	34,227,899	56,721,101
Manitoba	167	91	413	90	761	651,928	915,476	1,567,404
Saskatchewan	93	65	67	8	233	423,849	155,305	579,154
Alberta	127	43	365	20	575	512,832	1,100,619	1,613,451
British Columbia	474	127	1,734	102	2,437	1,898,874	4,904,845	6,801,719
Canada	9,489	5,123	21,730	5,133	41,475	44,346,028	62,448,375	106,794,403
1951								
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	28,772,822	50,654,738
Ontario	4,937	2,871	12,251	2,703	22,762	26,728,136	40,691,731	67,419,867
Manitoba	187	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	1,348,840	1,965,484
British Columbia	508	128	1,714	120	2,470	2,248,142	5,544,902	7,793,044
Canada	10,282	5,395	24,477	5,510	45,664	52,970,452	78,339,699	131,310,151

TABLE 7. Production and Related Workers (Wage Earners) in the Chemicals and Allied Products Group, by Industries and by Months, 1951

Month	Acids, alkalis and salts	Fertilizers	Medicinals and pharmaceuticals	Paints and varnishes	Primary plastics	Soaps and cleaning preparations	Toilet preparations	
	(Number)							
January	4,964	2,408	4,388	3,411	978	2,167	1,124	
February	5,092	2,360	4,482	3,469	979	2,198	1,122	
March	5,200	2,337	4,568	3,517	1,007	2,199	1,163	
April	5,310	2,518	4,558	3,562	1,030	2,200	1,163	
May	5,493	2,609	4,571	3,564	1,059	2,142	1,148	
June	5,606	2,243	4,622	3,573	1,084	2,100	1,180	
July	5,774	2,245	4,365	3,473	1,093	2,125	1,164	
August	5,790	2,327	4,532	3,401	1,095	2,174	1,187	
September	5,703	2,341	4,516	3,331	1,053	2,214	1,290	
October	5,639	2,293	4,532	3,307	1,054	2,158	1,294	
November	5,674	2,243	4,477	3,297	1,035	2,037	1,200	
December	5,677	2,315	4,418	3,271	989	1,982	1,112	
Total	65,922	28,239	54,029	41,176	12,456	25,696	14,147	
	Vegetable oils	Inks	Adhesives	Polishes and dressings	Compressed gases	Coal tar distillation	Miscellaneous	Total
	(Number)							
January	542	559	502	422	673	355	5,986	28,479
February	524	570	497	434	678	345	6,021	28,771
March	520	567	486	444	676	358	6,210	29,252
April	524	572	501	466	692	368	6,412	29,876
May	511	562	519	457	702	373	6,701	30,411
June	488	564	517	443	724	375	7,056	30,575
July	455	551	505	423	740	391	7,060	30,364
August	466	556	471	417	739	390	7,101	30,646
September	480	544	450	424	723	380	7,119	30,568
October	545	548	471	418	705	373	7,106	30,443
November	523	552	521	409	696	373	7,291	30,328
December	531	549	508	400	687	372	7,300	30,111
Total	6,109	6,694	5,948	5,157	8,435	4,453	81,363	359,824

TABLE 8. Production and Related Workers (Wage Earners) in the Chemicals and Allied Products Group, by Provinces and by Months, 1951

Month	Newfoundland	Prince Edward Island and Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Canada
	(Number)									
January	59	226	85	10,893	14,507	468	58	417	1,766	28,479
February	57	220	114	11,049	14,547	476	49	430	1,829	28,771
March	56	231	123	11,353	14,719	484	54	432	1,800	29,252
April	56	262	133	11,549	15,012	497	57	441	1,869	29,876
May	55	260	149	11,850	15,167	512	55	446	1,917	30,411
June	56	233	81	12,108	15,202	515	47	442	1,891	30,575
July	59	218	92	11,985	15,150	509	45	452	1,854	30,364
August	60	234	103	12,178	15,213	493	47	452	1,866	30,646
September	57	216	100	12,274	15,106	470	43	429	1,873	30,568
October	55	238	93	12,240	15,068	469	58	435	1,787	30,443
November	54	220	87	12,271	15,011	456	53	412	1,764	30,328
December	54	212	90	12,361	14,730	449	52	405	1,758	30,111
Total	678	2,770	1,250	142,111	179,432	5,798	618	5,183	21,974	359,824

TABLE 9. Materials Used in the Industries in the Chemicals and Allied Products Group, 1950 and 1951

Item	1950		1951		
	Quantity	Cost at works	Quantity	Cost at works	
		\$		\$	
Acetic anhydride	lb.	56,925	7,688	1,324,183	142,546
Acetone	lb.	2,401,294	281,936	3,005,742	391,221
Acetanilid	lb.	24,955	11,837	11,123	6,253
Acetylene	cu. ft.	120,256,317	788,441	177,798,714	1,143,584
Acid:					
Acetic	lb.	1,145,967	124,559	1,258,884	136,051
Acetylsalicylic	lb.	552,892	306,716	639,524	452,382
Arsenic (As ₂ O ₃)	lb.	2,068,197	110,671	963,451	83,622
Benzoic	lb.	16,804	6,006	144,282	48,783
Boric or boracic	lb.	207,984	23,970	174,757	18,563
Citric	lb.	750,676	204,965	863,533	249,524
Cresylic	lb.	65,274	8,615	210,233	26,771
Fatty, n.e.s.	lb.	3,748,523	314,846	1,557,020	194,950
Formic	lb.	98,245	21,025	119,935	30,514
Gallic	lb.	1,027	1,723	589	1,084
Hydrochloric (muriatic)	lb.	7,136,080	138,857	4,898,417	107,640
Naphthenic	lb.	2,015,397	181,386	1,975,942	217,354
Nitric	lb.	10,645,052	449,002	13,548,116	636,929
Oleic	lb.	1,256,557	182,414	1,045,359	201,588
Oxalic	lb.	71,350	11,436	80,606	16,158
Phosphoric	lb.	850,700	60,462	992,330	70,264
Stearic	lb.	1,342,238	190,607	1,478,085	326,648
Sulphuric	lb.	1,108,831,354	3,993,979	1,139,488,633	4,498,612
Tannic	lb.	4,643	6,528	4,041	6,061
Tartaric	lb.	680,092	203,150	691,089	324,597
Alcohol:					
Amyl (fused oil)	gal.	458	328	1,851	1,852
Butyl	lb.	2,552,256	364,925	3,059,707	473,582
Ethyl	gal.	942,321	1,226,102	977,011	1,581,422
Methyl (wood), refined	gal.	223,447	190,390	252,000	218,710
Aluminum rod, strip, etc.	lb.	47,211	16,992	56,943	21,788
Aluminum hydrate	lb.	21,867,500	437,350	22,479,960	449,599
Aluminum sulphate	lb.	878,363	18,042	1,024,911	23,697
Ammonia:					
Anhydrous	lb.	121,050,476	3,031,117	127,208,227	3,135,801
Liquor	—	—	1,347,336	—	1,533,703
Ammonium chloride	lb.	126,979	9,698	162,918	13,304
Ammonium nitrate	lb.	31,860,711	1,076,973	31,087,004	1,127,700
Ammonium phosphate	tons	5,906	443,013	9,151	592,309
Ammonium sulphate	tons	33,528	1,503,576	32,086	1,540,839
Amyl acetate	lb.	539,626	113,870	410,350	94,396
Arsenic, white (As ₂ O ₃)	lb.	114,639	7,196	41,308	3,307
Asphalt	gal.	4,757,922	640,604	6,446,982	1,188,103
Barium chloride	lb.	155,629	10,646	305,244	28,675
Barium nitrate	lb.	119,776	17,202	175,744	26,505
Barytes	lb.	3,282,691	97,309	2,721,999	95,190
Bentonite (filtrol, Pembina, etc.)	tons	563	50,273	653	57,331
Benzol	lb.	2,661,363	122,090	3,460,111	188,434
Bismuth metal	lb.	27,707	55,779	57,702	130,287
Bismuth salts	lb.	18,232	56,128	19,082	67,598
Black, lamp, bone and other, n.e.s.	lb.	314,708	58,589	305,568	65,186
Blanc fixe	lb.	531,195	26,581	488,109	23,655
Blood, dried	tons	57	5,898	42	4,297
Blue, ultramarine	lb.	201,318	52,964	251,081	70,806
Bone meal and bone flour	tons	257	22,706	54	4,303
Bones	tons	13,475	644,539	13,917	799,830
Borax	lb.	1,916,473	95,836	2,228,296	98,700
Brass rod, strip, etc.	lb.	1,079,216	294,264	1,821,350	619,252
Brucite fines	tons	673	18,882	52	1,144
Butyl acetate	lb.	3,350,260	549,980	4,557,365	657,057
Butyl cellulose	lb.	95,871	25,561	78,990	21,014
Butyraldehyde	lb.	6,768,109	716,914	8,206,303	971,132
Caffeine	lb.	19,268	97,532	19,256	96,385
Calcium arsenate	lb.	451,614	44,440	381,773	39,197
Calcium carbide	lb.	20,089,041	1,009,891	22,782,903	1,204,358
Calcium carbonate (ground chalk, whiting)	lb.	24,211,685	375,993	22,623,482	361,340
Calcium chloride	lb.	3,004,967	54,467	3,296,871	66,662
Calcium cyanamide	tons	54,055	1,992,547	85,825	3,284,520
Calcium sulphate	lb.	1,891,719	29,407	1,791,230	31,037
Camphor	lb.	50,746	34,782	50,449	35,988
Carbon bisulphide	lb.	3,975,774	212,735	4,665,653	273,579
Carbon black	lb.	1,544,578	246,215	1,689,284	260,111
Carbon dioxide gas (unpurified)	—	—	30,522	—	10,712
Carbon tetrachloride	lb.	216,338	23,295	252,708	30,424
Caseln	lb.	1,455,979	373,041	1,261,570	443,816
Chalk, precipitated	lb.	675,813	36,204	503,055	25,752
Charcoal	lb.	4,099,317	90,899	5,129,344	164,816
Chloride of lime	lb.	1,962,020	73,021	1,776,196	70,579
Chlorine, liquid	lb.	19,785,445	504,533	36,039,863	923,702
Coal:					
Anthracite (except for fuel)	tons	12,033	160,328	25,511	385,284
Bituminous (except for fuel)	tons	150	2,095	250	2,132
Cobalt acetate	lb.	13,300	13,525	12,800	13,845
Cobalt sulphate	lb.	108,615	97,754	80,750	76,713
Coke:					
Petroleum (except for fuel)	tons	135,234	2,330,844	27,076	552,806
For making carbon dioxide	tons	1,097	24,056	86	1,983
Other (except for fuel)	tons	156,335	2,748,054	284,936	5,218,207

TABLE 9. Materials Used in the Industries in the Chemicals and Allied Products Group, 1950 and 1951 - Continued

		1950		1951	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Colours:					
Chrome	lb.	2,300,545	872,144	2,441,960	989,792
Other dry	lb.	3,442,974	1,568,313	3,195,995	1,645,314
Copper strip, sheet, etc.	lb.	117,076	20,512	101,242	27,356
Copper sulphate	lb.	648,755	123,226	589,663	90,793
Copra or dried coconut kernels	lb.	50,087,717	5,021,807	58,139,985	6,956,788
Cotton linters	lb.	307,840	48,635	337,626	88,049
Creosote	lb.	272,512	22,558	335,788	20,344
Cresol	lb.	592,800	75,794	1,017,843	157,471
D.D.T.	—	—	449,046	—	505,218
Dextrine	lb.	8,345,771	700,339	8,256,343	820,037
Diatomaceous earth	tons	7,861	344,461	7,352	350,685
Dibutyl phthalate	lb.	349,941	104,117	210,401	69,833
Dinitrofluene	lb.	235,693	27,777	127,204	16,315
Driers:					
Linoleate	lb.	161,655	53,338	66,614	24,329
Naphthenate	lb.	1,847,490	575,616	1,971,982	547,531
Resinate	lb.	38,172	9,514	74,439	20,730
Other	lb.	429,770	102,530	573,839	157,326
Dyes and colours, other	lb.	—	275,853	280,090	142,728
Dyes, for packaging	—	—	2,069,926	—	10,537
Electrodes	—	—	901,706	—	1,201,740
Ether, sulphuric	lb.	90,381	19,138	93,983	24,128
Ethyl acetate	lb.	5,181,782	574,573	6,225,717	655,807
Ethylene glycol	lb.	22,646,587	4,671,800	25,114,709	4,919,228
Feldspar	tons	2,901	40,752	3,127	44,912
Ferric chloride	lb.	28,579	22,172	183,738	7,870
Flaxseed, Canadian	bushels	4,801,919	18,543,028	3,661,136	14,500,216
Flour:					
Potato	lb.	405,832	28,544	281,990	23,423
Soya bean	lb.	656,914	41,229	332,758	20,386
Tapoca	lb.	720,103	71,510	830,846	79,382
Wheat	lb.	6,045,125	243,315	5,783,453	245,053
Other	lb.	1,415,041	99,536	824,766	65,060
Fluorspar	tons	29,620	743,077	33,266	904,734
Foats, olive and cotton seed	lb.	7,191,879	505,093	6,338,032	603,750
Formaldehyde	lb.	18,087,704	787,197	21,680,959	964,151
Fuller's earth	tons	489	26,301	364	17,67
Glucose	lb.	1,096,897	85,542	1,192,687	101,79
Glyc	lb.	1,781,368	484,702	1,271,629	650,820
Glycerine:					
Crude	lb.	3,135,113	674,241	3,762,478	1,651,284
Refined	lb.	10,368,443	3,338,706	9,533,756	5,659,883
Graphite	lb.	706,814	119,188	855,861	159,246
Grease	lb.	5,152,335	432,301	4,795,771	640,821
Gun powder	lb.	750,961	309,447	816,719	391,360
Herbs, roots and vegetable drugs	—	—	645,448	—	715,390
Hides and hide trimmings	tons	19,036	472,149	21,352	610,337
Hydrogen	cu. ft.	1,163,539	3,674	1,464,479	3,656
Hydrogen chloride, anhydrous	lb.	5,920,576	205,897	10,679,326	391,706
Hydrogen peroxide	—	—	—	—	—
Insect powder	lb.	11,436	1,417	—	—
Iodine, crude	lb.	112,480	193,346	112,909	203,831
Iron, scrap	tons	6,125	159,178	7,465	253,882
Iron oxide pigments	lb.	4,745,605	370,790	5,891,167	467,059
Isobutanol	lb.	480,243	90,252	—	—
Isopropyl acetate	—	—	—	—	—
Javel concentrate or sodium hypochlorite for dilution	—	—	52,492	—	57,361
Kaolin or china clay	lb.	22,830,640	158,819	4,841,677	92,957
Lanolin	lb.	119,209	30,405	114,002	36,500
Lead arsenate	lb.	—	—	80,129	15,428
Lead, basic carbonate, white, dry	lb.	1,953,938	373,804	1,777,863	389,580
Lead, basic carbonate, white, in oil	lb.	674,516	130,441	598,403	156,843
Lead, basic sulphate, white	lb.	865,391	172,110	483,082	71,343
Lead, pig	lb.	13,309,829	1,905,409	18,865,856	3,626,857
Lead, red	lb.	992,047	236,064	1,142,784	260,377
Lethane	gal.	67	358	—	—
Lime:					
Hydrated	tons	52,262	98,709	2,036	136,702
Quick	tons	28,307	263,058	24,859	345,936
Land plaster	tons	436	2,842	84	1,348
Limestone	tons	928,654	1,721,031	1,055,290	2,057,801
Litharge	lb.	3,365,581	546,890	2,934,549	587,290
Lithopone	lb.	9,727,558	769,744	13,175,750	1,269,657
Lumber	bd. ft.	43	3,073	978	135,112
Magnesium oxide	tons	898	33,388	1,233	56,033
Magnesium sulphate (Epsom salts)	lb.	1,509,261	54,675	1,302,509	57,391
Malt extract	lb.	501,527	66,081	608,297	84,028
Meal, Ivory nut and other	lb.	540,128	151,858	690,919	20,883
Menthol	lb.	13,785	134,022	11,098	106,579
Mercury metal	lb.	147,182	130,494	136,524	204,795
Mercuric oxide	lb.	1,963	2,355	9,631	14,865
Methyl chloride	lb.	2,614,038	325,434	3,720,350	480,567
Mica, ground	lb.	2,191,105	76,193	1,594,733	73,498
Mustard seed	lb.	450,000	59,758	—	—
Nitrocellulose or nitrocotton	lb.	3,120,027	941,113	3,444,253	1,300,601
Ochres, siennas and umbers	lb.	556,752	53,895	498,303	50,851

TABLE 9. Materials Used in the Industries in the Chemicals and Allied Products Group, 1950 and 1951 - Continued

Item	1950		1951		
	Quantity	Cost at works	Quantity	Cost at works	
		\$		\$	
Oil:					
Castor	gal.	472,697	897,261	347,495	1,043,051
Castor, dehydrated	gal.	134,782	381,426	182,790	751,495
China wood (tung)	lb.	6,373,427	1,786,823	5,495,943	1,941,798
Cocconut	lb.	27,561,561	4,889,467	20,278,394	3,934,741
Cod	lb.	625,255	69,767	750,908	109,366
Cod liver	lb.	897,754	246,427	519,894	135,963
Corn	lb.	39,717	4,568	44,018	5,020
Cottonseed	lb.	6,823	871	-	-
Creosote	lb.	10,650	1,045	-	-
Essential and perfume	-	-	2,513,205	-	2,647,316
Fish	lb.	3,853,422	398,103	3,582,597	615,939
Fish, hydrogenated	lb.	756,396	66,588	964,819	169,546
Linseed:					
Raw	gal.	1,999,181	3,887,896	1,933,913	3,935,470
Boiled and other	gal.	2,191,892	4,438,454	2,211,659	4,780,865
Polymerol	lb.	892,981	223,103	463,705	140,578
Varnol	lb.	102,824	26,206	612,559	168,821
Mineral, other	gal.	948,556	330,255	873,620	286,364
Mineral, white	lb.	2,131,953	216,932	2,411,592	271,712
Neat's foot	lb.	378,869	65,865	310,904	88,271
Oiticica	lb.	31,328	7,973	212,984	67,833
Olive	lb.	146,186	39,172	70,548	25,097
Palm	lb.	917,204	124,352	182,381	33,209
Palm kernel	lb.	100,277	16,437	-	-
Peanut	lb.	5,638	1,055	2,300	480
Petroleum ink	lb.	10,667,400	219,232	992,308	229,482
Pine	lb.	324,828	38,637	226,994	30,962
Silicone	lb.	16,040	92,307	15,310	70,616
Soya bean	gal.	419,028	653,365	544,657	1,127,939
Sperm	lb.	250,046	36,000	323,958	63,118
Sun flower	-	-	-	-	-
Tall	lb.	3,042,874	169,390	2,692,146	171,528
Whale	lb.	-	-	-	-
Other	-	-	1,007,567	-	1,144,178
Paradichlorobenzene	lb.	990,492	157,455	1,015,180	183,469
Pentamol	lb.	558,584	101,944	500,900	108,124
Petrolatum	lb.	885,786	90,646	833,284	87,014
Petroleum distillates	gal.	7,917,716	2,417,431	7,487,412	2,631,819
Penicillin	million units	1,017,758	538,533	3,458,707	1,233,627
Phenacetin	lb.	98,191	103,756	118,979	160,926
Phenobarbital and other barbiturates	lb.	24,586	160,268	24,855	174,830
Phenol	lb.	7,797,459	1,110,348	9,065,850	1,610,721
Phosphorus, amorphous	lb.	10,846	4,588	11,619	4,929
Phosphorus sesquisulphide	lb.	88,303	31,526	88,153	32,562
Phosphate rock	tons	465,261	6,407,189	492,616	6,965,525
Phthalic anhydride	lb.	7,304,519	1,415,284	8,398,535	2,116,181
Pigments, all colours, and fillers, n.e.s.	lb.	10,424,502	1,878,979	-	1,960,752
Pitch, coal tar	lb.	10,258,897	151,853	1,875,227	47,888
Plasticizers, n.e.s.	lb.	3,147,864	1,049,874	2,528,312	1,063,794
Platinum	-	-	120,311	-	133,075
Polyvinyl chloride	lb.	2,489,278	821,624	2,114,766	761,316
Potash manure salts	tons	336	6,475	-	-
Potassium bichromate	lb.	83,943	13,405	186,418	28,617
Potassium chlorate	lb.	1,005,878	108,375	1,126,404	120,320
Potassium chloride (muriate of potash)	tons	96,586	4,277,276	97,345	3,943,712
Potassium hydroxide	lb.	2,274,603	180,749	1,884,637	151,803
Potassium iodide	lb.	64,663	110,929	58,546	105,432
Potassium magnesium sulphate	lb.	5,210,000	85,315	4,910,000	86,114
Potassium nitrate	lb.	643,800	54,730	590,810	53,294
Potassium perchlorate	lb.	75,798	12,667	119,135	27,846
Potassium sodium tartrate	lb.	18,435	6,580	14,540	4,724
Potassium sulphate	lb.	17,522,000	459,615	21,302,141	542,398
Powders, metallic (bronze, aluminum, etc.)	lb.	736,259	359,637	765,212	419,924
Powders, rouges and other toilet preparations for packaging only	-	-	60,974	-	-
Pyrethrum extract and powder	-	-	20,170	-	24,527
Pyrites	tons	71,713	514,558	70,859	551,800
Quartz and quartzite	tons	13,223	39,669	19,698	65,178
Quebracho extract	lb.	287,813	30,286	412,661	47,291
Rapeseed	lb.	7,554,200	303,168	4,082,795	142,870
Resins and gums, natural	lb.	8,408,215	931,378	7,716,213	1,055,578
Resins, synthetic, other	lb.	28,846,655	5,440,485	25,773,544	7,653,778
Resins, phenolic	lb.	458,315	99,646	3,447,334	961,919
Rosin	-	-	675,241	-	907,436
Rubber:					
Chlorinated	lb.	104,473	59,074	146,385	89,651
Latex	lb.	1,881,795	379,197	2,439,668	475,124
Sawdust	lb.	595,033	3,424	597,463	3,839
Shellac:					
Orange	lb.	359,876	187,198	297,744	165,491
Bleached	lb.	1,343,811	890,366	1,078,250	738,379
Other	lb.	139,843	86,945	185,908	125,361
Silica sand	tons	73,393	561,326	91,580	693,313
Silver bullion	troy oz.	242,309	197,887	322,281	305,777
Sodium alginate	lb.	2,300	1,374	-	-
Sodium azide	lb.	7,216	8,689	7,878	9,751
Sodium benzoate	lb.	8,957	3,638	15,438	3,951
Sodium bicarbonate	lb.	2,840,303	75,869	2,080,374	65,440

TABLE 9. Materials Used in the Industries in the Chemicals and Allied Products Group, 1950 and 1951 - Concluded

Name	1950		1951		
	Quantity	Cost at works	Quantity	Cost at works	
		\$		\$	
Sodium bichromate	lb.	303,379	33,015	1,015,473	134,548
Sodium bromide	lb.	40,189	13,823	43,804	17,068
Sodium carbonate (soda ash)	lb.	78,157,246	1,404,005	105,400,796	2,021,734
Sodium carboxymethylcellulose	lb.	282,820	56,153	402,480	88,766
Sodium chlorate	lb.	5,694,303	463,416	5,624,266	471,322
Sodium chloride (brine)	lb.	807,798,000	944,607	764,104,000	452,039
Sodium chloride (common salt)	lb.	373,196,670	1,852,402	515,590,277	2,212,278
Sodium fluoride	lb.	308,089	33,982	448,088	50,495
Sodium hydroxide (caustic soda)	lb.	67,744,183	2,109,255	69,581,823	2,321,272
Sodium, metallic	lb.	74,855	2,362	35,625	7,921
Sodium metasilicate	lb.	1,122,043	50,712	1,561,884	76,953
Sodium nitrate (chile saltpetre)	lb.	31,836,375	942,742	34,948,550	1,072,075
Sodium peroxide	lb.	39,839	9,091	44,915	10,602
Sodium phosphate (di)	lb.	1,523,172	121,481	1,792,123	146,308
Sodium phosphate (tetra)	lb.	8,283,205	784,371	22,854	3,290
Sodium phosphate (tri)	lb.	7,953,693	437,294	9,073,049	527,044
Sodium salicylate	lb.	23,464	12,583	17,780	13,808
Sodium silicate (water glass)	lb.	49,324,679	623,237	48,445,085	741,648
Sodium sulphate	lb.	63,445	8,913	1,835,407	53,424
Sodium sulphide	lb.	630,391	25,006	215,098	10,999
Soilvents	gal.	2,323,198	919,016	2,877,910	1,440,482
Soya beans	lb.	294,885,620	14,391,557	446,271,484	24,992,660
Starch:					
Corn	lb.	3,294,213	225,632	3,086,118	257,909
Other	lb.	931,221	72,307	678,473	58,281
Strontium carbonate	lb.	1,891	634	2,599	930
Strontium nitrate	lb.	502,849	57,004	751,856	89,694
Strontium oxalate	lb.	225	100	685	408
Strychnine	lb.	1,845	27,835	1,786	24,996
Sugar	lb.	4,118,609	379,761	3,922,642	387,155
Sulpha drugs	—	—	492,872	—	705,627
Sulphur (brimstone)	tons	86,437	2,355,331	103,310	3,024,117
Sulphur dioxide	—	—	53,928	—	73,744
Sunflower seed	lb.	15,952,529	706,358	12,350,009	470,121
Superphosphate:					
18%	tons	15,918	296,198	22,609	441,601
20%	tons	294,176	6,540,168	301,655	7,311,118
29-48%	tons	11,010	389,014	18,285	643,184
Ammoniated 3-18-0	tons	8,654	278,761	17	595
Talc	lb.	36,119,973	667,509	28,619,510	548,878
Tallow, grease and other soap stock	lb.	122,515,440	10,106,412	112,756,225	14,714,044
Teakage	tons	397	11,383	142	3,944
Tar					
Crude, coal	gal.	39,696,687	4,528,977	38,550,813	5,143,946
Water gas, crude	gal.	1,761,418	169,709	1,842,405	196,496
Tetrayl	lb.	19,500	18,662	24,200	22,305
Titanium pigments, reduced	lb.	15,892,741	3,723,784	16,666,584	4,030,835
Titanium oxide, white	lb.	27,845,287	2,709,007	25,747,290	2,536,594
Toluol	lb.	11,488,049	582,258	11,366,999	660,770
Trichlorethylene	lb.	81,792	9,108	129,586	13,613
Trinitrotoluol (T.N.T.)	lb.	321,185	52,287	841,191	159,194
Turpentine	gal.	351,665	295,065	312,118	352,806
2,4-D	lb.	1,863,618	683,145	1,223,069	574,335
Urea crystals	lb.	3,934,152	232,929	4,719,401	287,224
Varnishes	gal.	583,607	1,202,668	624,905	1,386,155
Vitamins (A, B, C and D)	—	—	1,052,450	—	1,023,896
Wax:					
Beeswax	lb.	348,980	197,668	317,036	203,668
Candelilla	lb.	124,601	106,162	73,363	53,873
Carnauba	lb.	1,640,371	1,513,253	1,423,907	1,589,591
Ouricury	lb.	56,624	47,432	60,109	55,360
Paraffin	lb.	20,333,048	868,381	34,882,156	1,801,064
Synthetic	lb.	46,735	26,925	96,623	66,717
Other	lb.	2,147,110	545,182	2,553,983	587,615
Wood:					
Blocks and splints	—	—	775,861	—	1,041,983
Flour	lb.	2,785,580	72,490	2,351,488	66,070
Hardwood for distillation	cord	22,182	208,793	22,405	229,228
Pulp	lb.	16,930,496	1,228,206	18,980,314	1,603,686
Xylol	gal.	508,420	300,486	471,091	283,955
Yarns	lb.	1,060,042	533,916	1,110,379	667,130
Zinc chloride	—	—	—	—	—
Zinc chromate	lb.	233,478	72,411	363,863	129,391
Zinc dross	lb.	584,000	63,008	2,153,626	399,356
Zinc oxide:					
Pure	lb.	5,291,501	839,326	5,049,306	934,182
Leaded	lb.	2,686,505	422,525	2,219,946	436,610
Zinc spelter	lb.	20,643,289	2,725,129	19,050,634	3,562,390
Zinc stearate	lb.	18,537	8,799	18,341	12,525
Zinc sulphate	lb.	287,421	17,939	251,604	22,531
Containers and packing material	—	—	37,868,031	—	43,189,056
All other materials	—	—	52,994,065	—	54,441,429
TOTAL	—	—	307,705,741	—	355,583,883

TABLE 10. Alphabetical List of Products Made in the Industries in the Chemicals and Allied Products Group, 1950 and 1951

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	1950		1951	
	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.	124, 375, 068	136, 043, 698	4, 207, 520
Acid:				
Acetic, glacial, 99%
Cresylic
Crotonic
Fatty, other	lb.	4, 792, 099	6, 441, 069	1, 046, 729
Hydrochloric (muriatic):				
Commercial
C.P.
Hydrofluosilicic
Monochloro acetic
Nitric:				
Commercial
C.P.
Oleic
Phosphoric
Stearic
Sulphuric:				
Commercial, 100% (for sale)	lb.	1, 408, 560, 772	1, 489, 328, 994	7, 823, 071
C.P.
Aluminum chloride
Aluminum fluoride
Aluminum stearate
Aluminum sulphate
Ammonia:				
Anhydrous
Aqua
Ammonia powder	lb.	3, 073, 000	2, 384, 860	170, 110
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	471	368	22, 022
Amyl acetate
Anesthetics, other	—	—	—	183, 527
Aniline oil
Anti-freeze preparations	imp. gal.	—	1, 585, 463	4, 313, 463
Automobile chemicals (brake fluid, tar remover, etc.)	—	—	—	1, 781, 611
Biological preparations and vaccines	—	—	—	3, 381, 313
Boiler compounds	—	—	—	2, 374, 811
Bone meal:				
Raw	lb.	212	339, 178	14, 242
Steamed	lb.	1, 256	962, 619	36, 854
Butane
Butyl acetate
Butyl alcohol
Butyraldehyde
Caffeine, anhydrous
Calcium acetate, grey, 80%	—	—
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.	580, 300	585, 653	381, 139
Rubber	gal.	—	106, 874	214, 402
Other	—	—	—	1, 383, 059
Cerium
Charcoal	tons	7, 503	7, 918	457, 878
Chloride of lime	lb.	1, 869, 000	608, 464	57, 878
Chlorine:				
Gas	lb.	242, 801	279, 107	8, 419
Liquid (for sale)	lb.	165, 631, 839	201, 067, 716	5, 154, 466
Chloroform
Chloral
Chromium oxide

TABLE 10. Alphabetical List of Products Made in the Industries in the Chemicals and Allied Products Group, 1950 and 1951 - Continued

Item	1950		1951	
	Quantity	Selling value at works \$	Quantity	Selling value at works \$
Cleaners:				
Drain pipe, toilet flush.....	lb.	3,300,000		
Hand.....	lb.	3,375,000	2,890,787	347,525
Glass.....	—	—	4,768,703	583,771
Cleaning and scouring powder and paste.....	lb.	26,735,000	—	253,473
Cleaning preparations, other.....	—	—	30,947,160	2,873,895
Cobalt naphthenate.....	—	—	—	1,703,221
Coke, pitch.....	—	—	•	•
Colours:				
Butter, cheese, etc.....	—	—	—	—
Dry.....	—	—	—	—
In oils and japans.....	lb.	290,260	78,241	2,246,352
Copper naphthenate.....	—	—	—	525,446
Croton aldehyde.....	—	—	•	•
Cresol.....	—	—	•	•
Cryolite, recovered.....	—	—	•	•
D.D.T. products.....	—	—	—	—
Dentrifices, liquid, powder and paste.....	—	—	—	—
Detergents, synthetic.....	lb.	51,753,000	69,929,133	1,696,626
Dextrines.....	—	—	—	5,571,217
Dibutyl phthalate.....	—	—	—	13,317,230
Dichloroethyl ether.....	—	—	•	•
Dichlorophenol.....	—	—	•	•
Dicyandiamide.....	—	—	•	•
Diethyl phthalate.....	—	—	•	•
Disinfectants.....	—	—	—	—
Dressings and finishes, leather, except polish.....	—	—	—	—
Dyes:				
Blended and packaged only.....	—	—	—	—
Leather.....	—	—	—	—
Embalming fluid.....	—	—	—	—
Enamels, ready-mixed, oil and synthetic type.....	gal.	6,086,537	6,304,863	80,627
Ethyl acetate.....	—	—	—	53,971
Ethylene oxide.....	—	—	—	258,351
Ethylene dichloride.....	—	—	—	—
Explosives and ammunition.....	—	—	—	—
Ferric chloride.....	—	—	—	—
Paraphosphorus.....	—	—	—	—
Fertilizers, mixed.....	tons	665,791	693,230	28,987,317
Flavouring extracts.....	—	—	—	478,614
Flour bleaching compound.....	—	—	—	—
Fluorspar, flotation.....	—	—	—	—
Glue:				
Bone and hide.....	lb.	8,156,676	8,541,868	2,664,870
Casein.....	lb.	965,852	871,496	290,378
Fish.....	lb.	1,162,685	1,107,392	330,217
Flexible.....	lb.	2,020,167	1,948,717	504,621
Soya bean.....	—	—	—	85,879
Synthetic resin.....	lb.	11,656,797	13,159,685	1,752,850
Vegetable, dry.....	lb.	2,710,379	2,454,197	284,456
Vegetable, liquid.....	lb.	16,983,354	16,157,470	1,684,592
Other.....	lb.	358,262	325,991	89,647
Glycerine:				
Crude.....	lb.	2,358,000	2,817,694	1,252,851
Refined.....	lb.	13,367,000	10,098,721	6,502,379
Glycols:				
Ethylene.....	—	—	•	•
Diethylene.....	—	—	•	•
Triethylene.....	—	—	•	•
Guanidine nitrate.....	—	—	—	—
Hydrogen.....	cu. ft.	106,103,532	112,452,935	410,736
Hydrogen chloride, anhydrous.....	—	—	•	•
Hydrogen peroxide, liquid.....	—	—	•	•
Inks:				
Newspaper.....	lb.	11,911,722	11,826,075	1,129,396
Letterpress.....	lb.	5,006,391	4,443,925	3,942,161
Lithographing.....	lb.	4,134,355	3,488,769	3,158,132
Stamping.....	lb.	71,975	38,600	52,278
Other printing.....	lb.	1,432,918	510,518	806,329
Writing:				
Liquid.....	lb.	—	—	—
Powder and pellets.....	lb.	36,180	—	282,579
Insecticides, other:				
Agricultural dusts and sprays, not specified elsewhere.....	—	—	—	—
Fly spray.....	—	—	—	—
Gopher poison.....	—	—	—	—
Moth repellent.....	—	—	—	—
Rat and mouse poison.....	—	—	—	—
Other household.....	—	—	—	—
Livestock spray and powder.....	—	—	—	—
Iron oxide pigments, synthetic.....	—	—	—	—
Iron naphthenate.....	—	—	—	—
Isobutylene.....	—	—	—	—
Javel water:				
Under 12%.....	—	—	—	—
12% and over.....	—	—	—	—

TABLE 10. Alphabetical List of Products Made in the Industries in the Chemicals and Allied Products Group, 1950 and 1951 - Continued

Item	1950		1951		
	Quantity	Selling value at works	Quantity	Selling value at works	
		\$		\$	
Lacquers, cellulose:					
Clear	gal.	1,418,160	3,547,206	1,455,291	3,956,013
Pigmented	gal.	660,296	2,649,911	706,871	3,001,622
Lead acetate					
Lead arsenate					
Lead naphthenate					
Lead oxide:					
Red					
Litharge					
Lead, white:					
Dry					
Ground in oil					
Lecithen					
Lighter fluid	-	-	175,984	-	231,855
Lime-sulphur solution	gal.	369,462	78,146	359,233	83,743
Magnesium stearate					
Manganese naphthenate					
Matches:					
In books	No. of books	318,586,787	943,083	317,230,182	1,238,702
Other	-	-	2,712,792	-	2,991,962
Medicinals and pharmaceuticals, other	-	-	43,640,257	-	52,778,230
Methyl hydrate:					
Refined					
Crude					
Muriate of potash (fertilizer):					
Milled, screened and bagged only	tons	1,636	94,541	992	56,225
Naphthalene					
Nickel salts					
Nitrogen					
Nitrous oxide					
Nitrobenzol					
Oil, sulphonated:					
Castor	lb.	1,516,586	380,799	1,081,395	257,283
Cocanut	lb.	105,388	20,689	99,474	24,819
Cod	lb.	787,673	110,953	808,124	125,222
Neat's Foot	lb.	347,841	62,586	319,977	76,228
Other blends	lb.	-	640,313	3,854,186	749,228
Oils:					
Castor, dehydrated					
Cocanut, crude					
Core					
Creosote	gal.	-	-	11,726,520	3,104,240
Lard					
Linseed:					
Boiled	gal.	1,034,422	1,745,774	857,123	1,711,608
Processed	gal.	4,132,053	7,124,406	4,136,613	7,919,065
Raw (sold as such)	gal.	5,232,708	8,128,681	4,111,330	6,866,661
Mustard seed, crude					
Neat's foot, cold pressed					
Rapeseed, crude					
Soya bean, crude	tons	24,802	7,652,918	36,859	16,558,530
Soya bean, processed	tons	1,165	361,493	430	207,456
Stand, blown and enamel	gal.	77,463	78,138	8,148	88,880
Sunflower, crude					
Other	-	-	528,130	-	1,307,250
Oilcake and oil cake meal:					
Cocanut					
Linseed	tons	81,827	5,647,324	63,185	4,705,664
Mustard seed					
Rapeseed					
Soya bean	tons	116,680	9,346,942	178,399	13,295,231
Sun flower	tons	-	-	1,972	148,534
Oxygen in cylinders or delivered by pipe line	cu. ft.	690,362,200	5,400,670	794,054,423	6,893,420
Paint:					
Paste paints (not including water-paste paints)	lb.	6,371,201	1,233,217	5,301,980	1,181,285
Water-thinned paints:					
Resin emulsion paints, paste and semi-paste form:					
Interior	Imp. gal.	1,118,325	3,506,315	1,014,612	3,630,852
Exterior	Imp. gal.	12,200	32,055		
Cold water paints:					
Interior, casein and protein bound:					
Dry and semi-paste form	Imp. gal.	57,487	114,322	60,690	76,596
Dry powder form	lb.	3,382,585	398,961	2,937,169	386,475
Glue bound	lb.	746,170	50,170	730,069	69,356
Exterior:					
Casein and protein bound	lb.	83,075	15,608	62,804	7,949
Lime or cement bound	lb.	1,559,810	176,653	1,447,252	177,400
Texture-type water paints	lb.	1,961,200	147,054	1,760,247	149,205
Calcimines:					
Hot water	lb.	2,171,586	121,136	2,023,323	137,694
Cold water	lb.	880,645	83,151	775,940	62,642
Ready-mixed paints	gal.	10,767,291	36,433,811	11,308,452	41,770,982
Paint and varnish remover	gal.	127,571	385,334	112,991	305,225
Paraldehyde					
Parathion					
Paste:					
Dry powder	-	-	332,339	-	442,882
Liquid, including mucilage	-	-	304,949	-	310,391

TABLE 10. Alphabetical List of Products Made in the Industries in the Chemicals and Allied Products Group, 1950 and 1951 - Continued

Item	1950		1951	
	Quantity	Selling value at works	Quantity	Selling value at works
		\$		\$
Penicillin	—	—	—	—
Penicillin preparations	—	—	—	—
Pentacetyl acetate	—	4,207,959	—	4,435,545
Perchloroethylene	—	—	—	—
Phenol	—	—	—	—
Phenothiazine	—	—	—	—
Phosphorus:	—	—	—	—
Amorphous	—	—	—	—
Yellow	—	—	—	—
Phenacetin	—	—	—	—
Phosphorous sesquisulphide	—	—	—	—
Phthalic anhydride	—	—	—	—
Patching material:	—	—	—	—
For walls	lb.	3,052,980	3,246,491	255,391
For floors	lb.	396,425	198,748	28,869
Pitch, coal tar	tons	113,510	112,141	3,875,498
Polish:	—	—	—	—
Automobile (including wax)	—	—	—	—
Brass	—	—	—	331,242
Furniture	—	—	—	69,605
Shoe and shoe dressing	—	—	—	742,975
Silver	—	—	—	1,056,923
Stove	—	—	—	155,008
Other	—	—	—	71,950
Polyethylene film	—	—	—	216,189
Polyvinyl alcohol	—	—	—	—
Potassium chlorate	—	—	—	—
Putty	—	—	—	—
Railway signal bombs and signal boxes	lb.	12,221,000	11,031,986	807,415
Rennet extract	—	—	—	573,663
Resins, synthetic:	—	—	—	—
Alkyd (for sale)	lb.	—	6,291,458	1,901,870
Casein	—	—	—	—
Cellulose acetate	—	—	—	—
Phenol-formaldehyde	—	—	—	—
Polystyrene	—	—	—	—
Urea-formaldehyde	—	—	—	—
Vinyl acetate	—	—	—	—
Vinyl chloride	—	—	—	—
Rollers, printers'	—	—	—	591,357
Rust preventatives	—	—	—	713,590
Rubber plasticizers and accelerators	—	—	—	—
Rubber, synthetic	—	—	—	—
Sex hormones	—	—	—	1,255,574
Size, rosin	—	—	—	1,283,848
Soap:	—	—	—	—
Castile:	—	—	—	—
Boiled	lb.	649,577	1,097,939	184,179
Cold pressed	lb.	529,615	555,770	107,340
Chips and flakes:	—	—	—	—
Household packages	lb.	16,070,360	10,777,900	2,462,488
Bulk	lb.	13,088,951	12,353,950	1,730,927
Laundry, bar:	—	—	—	—
Household:	—	—	—	—
White	lb.	10,253,839	8,736,741	987,933
Yellow	lb.	20,076,190	16,203,121	2,467,550
Liquid	lb.	11,256,000	11,955,128	1,516,799
Polishing and scouring	lb.	825,000	850,139	102,708
Powder:	—	—	—	—
Household packages	lb.	95,691,239	75,028,660	12,547,345
Bulk	lb.	9,837,610	10,981,044	1,323,106
Shaving cream:	—	—	—	—
Lather	lb.	1,010,000	1,030,898	1,359,007
Brushless	lb.	260,000	459,342	414,833
Other	lb.	338,000	349,379	394,293
Soft, paste and jelly	lb.	3,069,940	2,124,295	276,223
Textile and mill	lb.	6,336,000	4,582,569	677,058
Toilet, bar	lb.	40,375,000	35,650,023	10,479,298
Other, hard	lb.	1,605,000	1,724,139	214,331
Other	lb.	—	2,802,490	354,730
Sodium acid pyrophosphate	—	—	—	—
Sodium arsenate	—	—	—	—
Sodium arsenite	—	—	—	—
Sodium azide	—	—	—	—
Sodium benzoate	—	—	—	—
Sodium carbonate:	—	—	—	—
Soda ash	—	—	—	—
Sal soda	lb.	4,257,000	4,114,268	124,929
Sodium chlorate	—	—	—	—
Sodium cyanide	—	—	—	—
Sodium fluoride	—	—	—	—
Sodium hydrosulphide	—	—	—	—
Sodium hydroxide (caustic soda) (for sale)	lb.	231,586,517	305,354,290	8,824,140
Sodium hypochlorite	—	—	—	—
Sodium nitrate fertilizer (milled, screened and bagged only)	tons	86	—	—
Sodium (di) phosphate	—	—	—	—



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TABLE 10. Alphabetical List of Products Made in the Industries in the Chemicals and Allied Products Group, 1950 and 1951 - Concluded

Item	1950		1951	
	Quantity	Selling value at works	Quantity	Selling value at works
		\$		\$
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.....	-	68,380	-	.
Stains (oil spirit, varnish, etc.)..... gal.	362,739	862,913	429,840	1,146,842
Starches, blended.....		.		.
Stearine.....		.		.
Streptomycin.....		.		.
Streptomycin preparations.....	-	206,402	-	319,533
Sulphur dioxide, liquid.....		.		.
Styrene.....		.		.
Superphosphate fertilizer:		.		.
Actually made.....		.		.
Milled, screened and bagged only..... tons	14,934	464,576	16,051	557,857
Sweeping compounds.....	-	452,807	-	568,824
2-ethylhexanol.....		.		.
Tankage..... tons	3,707	214,170	3,505	174,700
Tanners' bate.....		.		.
Tar, refined..... gal.	4,324,703	661,048	2,235,783	400,642
Textile and leather finishes.....	-	2,224,475	-	2,529,782
Thinners, for lacquers, paints and enamels..... gal.	1,940,186	2,474,344	2,006,844	2,921,189
Toilet preparations (except dentifrices).....	-	24,139,834	-	24,770,217
Trichlorethylene, crude.....		.		.
Turpentine.....		.		.
Toluene.....		.		.
Vanillin.....		.		.
Varnishes (Japans, shellac, etc.)..... gal.	3,518,253	8,746,369	3,950,283	9,934,864
Veterinary medicines.....	-	807,510	-	1,068,107
Vinyl acetate.....		.		.
Vitamin preparations.....	-	10,196,670	-	12,983,706
Washing blue.....		.		.
Washing compounds, other.....	-	400,000	-	420,292
Wax, floor:		.		.
Paste..... lb.	7,385,043	2,452,210	7,796,849	2,680,616
Liquid..... gal.	530,877	1,007,365	395,408	878,226
Self-polishing..... gal.	779,860	4,601,249	1,699,958	5,092,543
Wax, sealing.....		.		.
Wax, paraffin, refined.....		.		.
Weed killer.....	-	2,160,946	-	2,943,189
Welding compounds.....		.		.
Zinc chloride (50% solution).....		.		.
Zinc naphthenate.....		.		.
Zinc oxide.....		.		.
Zinc stearate.....		.		.
Zinc, white, in oil.....		.		.
All other products.....	-	28,783,302	-	53,977,664
Products reported by only one or two firms in this group (marked * above).....	-	214,727,513	-	255,516,827
TOTAL.....	-	646,670,510	-	776,489,391