

NOTE: As a result of a change in the treatment of head office statistics, the figures for number of employees and salaries and wages for 1961 are not comparable with those for 1960 and earlier years. The 1961 figures will be revised to compare with previous years and published in the regular industry reports as the final compilations are completed. It is planned eventually to revise the data for the 1957-1960 period in line with the 1961 basis of compilation.

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CHEMICAL AND CHEMICAL PRODUCTS INDUSTRIES

Preliminary Summary Statistics - 1961

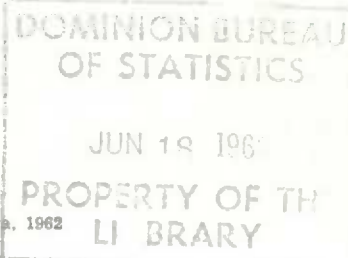
In presenting the 1960 statistics for the Chemical and Chemical Products Industries group last year, reference was made to a new Standard Industrial Classification (SIC) being used for the first time by the Dominion Bureau of Statistics. Now, in presenting the 1961 data, attention is drawn to a further conceptual change involving the definition of the establishment.

Heretofore, in the Census of Manufactures, attempts were made to sub-divide some large multi-activity operations into two or more establishments according to major types of products classified to different industries. This made it difficult for the firms involved to provide from their accounting records the statistics for all items requested for each reporting unit. This practice often resulted in arbitrary or inconsistent figures for some industries. With the implementation of the new Standard Industrial Classification a new definition of the establishment was developed which will be applied in all surveys relating to industry-type data such as employment, total value of shipments, capital expenditures, etc. For statistical purposes, an "establishment" is now defined as the smallest unit which is a separate operating entity capable of reporting all elements of basic industrial statistics.

The reporting procedures for many firms classified to the Chemical and Chemical Products Industries group were changed as a result of the implementation of the new "establishment" concept in 1961 and these, in turn, affect the 1961 statistics presented for this group. As an example of a major change brought about by the adoption of this new concept the case might be cited of a large soap manufacturing firm. Prior to 1961, this firm filed separate reports covering its soap division and its fats division (margarine and shortening). One report was filed in the Manufacturers of Soap and Cleaning Compounds industry (one of the industries in the Chemical and Chemical Products Industries group) while the other was filed in the Slaughtering and Meat Processors industry (one of the industries in the Food and Beverage Industries group.) Starting in 1961, both divisions are being consolidated for statistical purposes and a single report covering both the soap and fats divisions is being filed in the Manufacturers of Soap and Cleaning Compounds industry.

Industry and Merchandising Division

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Adoption of the new "establishment" concept means also that in 1961 the manufacturing operations of some firms previously included in the Chemical and Chemical Products Industries group will be omitted completely, namely, the manufacturing operations of firms whose major activity is wholesaling, service or other non-manufacturing activity. For statistical purposes, the manufacturing operations of such firms will be consolidated with the major activity and the whole operation classified to the relevant industry.

As a result of the changes described above and others brought about by the adoption of the new "establishment" concept the statistics for 1961 as reviewed in this report are not exactly comparable with those published for 1960 and earlier years; however, in order to minimize the effect of these changes on the comparability of the figures back to 1957, adjustments have been made for the years 1957 to 1960 to the industries most seriously affected.

Factory shipments reported by the Chemical and Chemical Products Industries group in 1961 were valued at \$1,441.1 millions, an increase of approximately \$76.5 millions or about 5.6 per cent over the comparable 1960 total of \$1,364.6 millions (the latter being adjusted to a basis comparable to 1961 to accommodate the effects of implementing the new establishment concept).

In 1961, there were 1082 operating establishments in this group and they employed 50,391 persons who were paid \$241.9 millions in salaries and wages. Materials for use in manufacturing cost \$622.2 millions and fuel and electricity cost \$54.5 millions.

Imports of Chemicals and Chemical Products totalled \$370.9 millions during 1961 compared with \$338.6 millions in the previous year. Exports during 1961 amounted to \$248.3 millions compared with \$237.7 millions in 1960.

TABLE 1. Principal Statistics for the Chemical and Chemical Products Industries Group, Significant Years 1920-1961 and by Industries, 1960 and 1961

Year and industry	Estab- lish- ments	Em- ployees	Salaries and wages	Cost of fuel and elec- tricity at plant	Cost at plant of materials used	Gross selling value of products
	number			thousands of dollars		
1920	451	16,651	20,695	3,259	58,550	117,831
1925	510	14,128	17,887	3,274	42,855	99,393
1929	557	16,694	22,639	4,575	55,184	138,545
1933	696	15,397	18,739	3,155	34,272	92,821
1937	754	21,968	28,613	5,222	64,461	148,973
1939	808	22,595	31,568	5,259	65,231	159,537
1943	945	92,288	146,677	17,653	368,111	765,218
1946	1,021	37,378	66,538	13,340	159,308	376,288
1949	1,037	41,326	100,691	19,218	280,009	587,398
1952	1,075	47,694	148,076	24,656	357,818	796,562
1953	1,105	50,207	164,591	29,541	403,686	881,503
1954	1,116	51,603	177,312	32,213	437,051	935,725
1955	1,126	51,856	185,268	33,086	480,104	1,044,079
1956	1,131	52,821	200,743	36,639	527,564	1,111,233
1957	1,137	54,708	222,044	42,102	565,746	1,203,411

Basis: Standard Industrial Classification revised 1960(1)

1957	1,071	53,231	216,644	41,932	518,526	1,138,356
1958	1,068	53,453	229,687	47,614	547,298	1,239,079
1959	1,066	53,680	239,516	51,032	581,853	1,321,354

(1) Reflecting implementation of new "establishment" concept - see text for details.

TABLE 1. Principal Statistics for the Chemical and Chemical Products Industries Group, Significant Years 1920-1961 and by Industries, 1960 and 1961 - Concluded

Year and industry	Estab-	Em-	Salaries	Cost of	Cost at	Gross
	lish- ments	ployees	and wages	fuel and elec- tricity at plant	plant of materials used	selling value of products
	number			thousands of dollars		
1960 (Final):						
Explosives and ammunition manufacturers	12	5,249	23,793	1,708	27,506	67,123
Manufacturers of mixed fertilizers	40	1,139	5,404	465	30,282	42,955
Manufacturers of plastics and synthetic resins ..	31	3,814	20,257	3,745	61,749	115,298
Manufacturers of pharma- ceuticals and medicines	187	7,815	31,341	1,056	45,008	163,576
Paint and varnish manu- facturers	136	6,135	27,529	1,023	73,913	146,878
Manufacturers of soap and cleaning compounds	128	4,286	20,938	1,644	72,975	163,213
Manufacturers of toilet preparations	78	2,488	8,637	216	21,560	62,548
Manufacturers of indus- trial chemicals	119	16,179	85,038	42,650	174,453	442,294
Manufacturers of printing inks	31	933	4,207	172	7,608	17,373
Other chemical industries n.e.s.	323	5,618	23,501	2,351	69,414	143,396
Totals	1,085	53,656	250,645	55,030	584,468	1,364,654
1961 (Preliminary):						
Explosives and ammunition manufacturers	13	3,986	17,681	1,620	24,927	63,289
Manufacturers of mixed fertilizers	43	1,214	5,422	686	40,713	56,678
Manufacturers of plastics and synthetic resins ..	32	3,476	19,037	3,983	64,782	119,116
Manufacturers of pharma- ceuticals and medicines	182	7,958	33,102	1,176	49,660	170,643
Paint and varnish manu- facturers	129	5,412	24,221	1,035	74,036	147,422
Manufacturers of soap and cleaning compounds	126	4,120	21,659	1,699	82,588	177,189
Manufacturers of toilet preparations	75	2,562	10,722	232	22,419	69,241
Manufacturers of indus- trial chemicals	124	15,157	82,001	41,507	178,126	467,122
Manufacturers of printing inks	32	963	4,464	177	7,945	18,794
Other chemical industries n.e.s.	326	5,543	23,594	2,371	76,964	151,583
Totals	1,082	50,391	241,903	54,486	622,160	1,441,077

(1) Reflecting implementation of new "establishment" concept - see text for details.

TABLE 2. Principal Statistics for the Chemical and Chemical Products Industries Group, by Provinces, 1960 and 1961

	Estab- lish- ments	Em- ployees	Salaries and wages	Cost of fuel and elec- tricity at plant	Cost at plant of materials used	Gross selling value of products
	number			thousands of dollars		
1960 (Final):(1)						
Newfoundland	3	69	257	22	782	1,690
Prince Edward Island and Nova Scotia	14	286	991	168	3,570	7,145
New Brunswick	7	131	524	61	3,386	4,801
Quebec	346	19,450	89,231	13,690	159,515	390,572
Ontario	543	28,543	135,296	35,056	356,824	816,812
Manitoba	31	627	2,356	136	7,693	15,472
Saskatchewan	9	81	322	30	751	2,204
Alberta	36	1,875	9,712	3,285	20,751	58,094
British Columbia	96	2,594	11,996	2,582	31,196	67,864
Canada	1,085	53,556	258,643	55,030	584,468	1,364,654
1961 (Preliminary):(1)						
Newfoundland and Prince Edward Island ..	4	110	395	34	2,523	3,915
Nova Scotia	13	207	759	141	2,655	5,833
New Brunswick	7	143	527	65	3,804	5,480
Quebec	343	17,258	79,333	13,858	167,875	413,007
Ontario	542	27,682	137,420	34,017	383,350	867,220
Manitoba	31	564	2,185	135	8,481	16,316
Saskatchewan	9	79	318	29	852	2,232
Alberta	37	1,875	9,239	3,502	21,459	58,222
British Columbia	96	2,473	11,727	2,705	31,161	68,852
Canada	1,082	50,391	241,903	54,486	622,160	1,441,077

(1) Reflecting implementation of new "establishment" concept - see text for details.

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