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PAINT AND VARNISH MANUFACTURERS

1961

The list of firms normally included in this report has been omitted from this issue, along with certain tables. See introductory text for details.

ANNUAL CENSUS
OF MANUFACTURES



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SYMBOLS

The interpretation of the symbols used in the tables throughout this publication is as follows:

- .. figures not available.
- ... figures not appropriate or not applicable.
- nil or zero.



EXPLANATORY NOTES

This report is one in a series of about 140 publications which present the results of the 1961 Census of Manufactures. Most reports in this series refer to specific industries, but there are summary reports for Canada and the provinces and for major industry groups. Implementation of the new definition of the establishment in the 1961 Census has resulted in certain changes and necessitated some adjustments to the statistics for previous years in order to maintain comparability of the data. (See following note on "Establishment".)

Industry statistics given in these reports refer to number of establishments, employees, salaries and wages, cost of materials, supplies, fuel and electricity, gross value of shipments, inventories and value added by manufacturing. Details of materials used and products shipped are also given. Descriptions of the principal industry statistics, with special reference to 1961, are as follows:

Period Covered

Firms are asked to submit figures for the calendar year, if at all possible, and most reports are on this basis. Financial year reports for periods differing from the calendar year are accepted in instances where the firms find it impossible to supply calendar year data from accounting records. However the data on employees, salaries and wages are requested on a calendar year basis in all cases.

Establishment

The reporting unit in the Census of Manufactures is the **establishment**. Beginning with the 1961 Census, the establishment is defined as follows:

The smallest unit which is a separate operating entity capable of reporting all the following:

- Materials and supplies used,
- Goods purchased for resale as such,
- Fuel and power consumed,
- Number of employees and their pay,
- Inventories,
- Shipments or sales.

The establishment is to be distinguished from smaller subdivisions or departments which do not have records which permit them to report all items required of an establishment. Prior to 1961, some establishments were required to submit two or more separate reports when they were engaged in operations which were classifiable to different industries. Beginning with 1961, separate reports for such operations will be required only in cases where accounting records can provide all the elements of principal statistics enumerated above. Special reporting arrangements were made with respondents when the acceptance of combined reports would have seriously affected the statistics for particular industries or areas. Where continuity of industry statistics was affected by this change in reporting procedures, adjustments to the data were made back to 1957 in order to maintain comparability of the series for recent years.

A manufacturing establishment is typically a factory, mill or plant principally engaged in manufacturing operations. Prior to 1961, the Census of Manufactures attempted to cover the manufacturing activities of all establishments, whether or not they were principally engaged in manufacturing operations. Beginning with the 1961 Census, establishments (accounting entities) which are not primarily engaged in manufacturing are no longer included as manufacturing establishments in the basic industry statistics. Again adjustments to the industry statistics were made to reflect the removal of such reporting units for the period 1957-1960. These reporting units are now listed as establishments in other Bureau industry surveys, such as Wholesale Trade, Construction, etc. In order, however, to maintain complete coverage of certain commodity items produced mainly in manufacturing establishments, many non-manufacturing establishments are now surveyed for commodity shipments only and the latter are included in those tables of industry reports showing shipments of certain commodities "from all industries".

Many firms have more than one manufacturing establishment. Such firms are requested to submit a separate Census of Manufactures report for each manufacturing establishment which can meet the reporting requirements described earlier.

Prior to 1961, the main emphasis in the Census of Manufactures was on manufacturing activity whereas, beginning with 1961, each establishment reports on the total operations carried out within its accounting boundaries (except income from investments such as rent, interest and dividends). However, data on different activities (manufacturing, selling, construction by own labour force etc.) are requested separately. The 1961 statistics in this report are confined to manufacturing activity in order to maintain comparability with previous years. In the 1962 reports it is planned to show both 1961 and 1962 data on the "total activity" basis in addition to the data on manufacturing operations.

Employees

Administrative and office employees include all executives and supervisory officials such as presidents, vice-presidents, secretaries, treasurers, etc., together with managers, professional and technical employees, superintendents and factory supervisors above the working foremen level, and clerical employees. Working owners and partners are also included in this category but will be shown separately in subsequent years.

Production and related workers include all other factory workmen whether paid on a monthly, weekly, hourly or piece-work basis. Working foremen doing work similar to that of the employees they supervise are included, as are maintenance, handling, warehousing and delivery staff. Employees on new construction work, in retail or wholesale operations, on outside piece work, etc., are not included.

Production workers are reported by months, an average for the year being obtained by summing the monthly figures and dividing by twelve. This procedure is followed even though the plant did not operate in all months. Figures on employment refer to the calendar year whether or not some establishments reported other data on a financial year basis.

Salaries and Wages

Salaries and wages refer to gross earnings of the employees described above, including salaries, wages, commissions, bonuses, the value of room and board where provided, deductions for income tax and social services such as sickness and unemployment insurance, pensions, etc., as well as any other allowances forming part of the employees' wages. Payments for overtime are included.

Salaries refer to amounts paid to administrative and office employees. Withdrawals by working owners or partners for normal living expenses for self and family are included with salaries, but will be shown separately in subsequent years. Wages refer to the amounts paid to production and related workers as defined above. Data on earnings refer to the calendar year whether or not some establishments reported other data on a financial year basis.

Cost of Fuel and Electricity

Figures for fuel refer to amounts actually used (including fuel used in cars and trucks), not to purchases unless the quantities are the same. Values refer to the laid-down cost at the establishment including freight, duty, etc.

Materials and Supplies Used

Figures represent quantities and laid-down cost values, at the establishment, of materials, supplies and components actually used during the year whether purchased from others or received as transfers from other plants of the reporting company. Amounts paid to other manufacturers for work done on materials owned by the reporting company are included. Returnable containers or any other items charged to capital account are not included. Fuels are not included. Goods bought from others or received as transfers from other plants or reporting companies for resale without further processing are not included. Maintenance and repair supplies not chargeable to capital account are included.

Factory Shipments

Factory shipments generally refer to shipments of goods made from own materials either in the reporting establishments or by other manufacturers on the basis of a charge to the reporting establishment for work done. All products and by-products shipped from the establishment are included whether for domestic use, export, or for government departments. Transfer shipments to sales outlets, distributing warehouses or to other manufacturing units of the reporting firm which are treated as separate establishments are included. Goods bought or received as transfers and resold without further processing are not included. Values are requested

on f.o.b. establishment basis, and do not include sales tax or excise duties. Values of containers not returnable are included. Amounts received in payment for work done on materials owned by others are included.

In a few industries such as shipbuilding, aircraft, etc., where work on principal products extend over a relatively long period, the value of production is recorded rather than the value of shipments. For those industries production is computed from the value of deliveries of complete units during the year plus the value of work done during the year on unfinished units less the value of work done in previous years on finished units delivered in the year under review.

Inventories

Values represent the book value of manufacturing inventory. Figures consist of inventory at the plant and at warehouses or selling outlets which are treated as extensions of the plants for the purpose of reporting shipments.

Value added by Manufacturing

Value added is compiled by deducting the cost of materials, fuel and electricity consumed from the value of production (value of shipments adjusted for changes in the value of inventories of finished goods and goods in process). Value added is sometimes referred to as net production.¹

Standard Industrial Classification

The revised Standard Industrial Classification which was introduced with the 1960 Census of Manufactures provides for a breakdown of the universe into 140 industries arranged in 20 major groups compared with 135 industries in 17 major groups in the old classification which was used in the compilations for the years 1949 to 1959 inclusive. Full details are contained in the Standard Industrial Classification Manual, Catalogue No. 12-501, which is available from either the Queen's Printer or the Dominion Bureau of Statistics. Reporting establishments are classified or allotted to specific industries on the basis of the value of principal products made or shipped.

Establishments engaged solely in repair work are not included in manufacturing industries (except in the case of furniture, shipbuilding, boat building, aircraft and railroad rolling stock industries) but establishments principally engaged in assembling parts into complete units are included.

¹ To arrive at the National Accounts concept of "gross domestic product at factor cost", it would be necessary to subtract also the cost of advertising, insurance and other business costs which are not collected in the annual Census of Manufactures. Value added figures for the primary industries, manufacturing and construction are published in D.B.S. publication 61-202, Survey of Production.

Short Forms

Since 1949, in order to ease the reporting burden for smaller firms, a one-page short form has been used asking only for certain principal items of shipments. For purposes of publication, missing data were estimated on the basis of appropriate ratios. For the 1959 and 1960 censuses the general limit for short forms was raised from \$50,000 to \$100,000 value of shipments and a new intermediate form was used. This form is a shortened version of the long form in that some of the general questions were pared down and the detailed lists of materials and products were limited to the more important items. The general limits for firms in this category were set at between \$100,000-\$500,000 value of shipments, but in the case of both the short and inter-

mediate forms there are lower cut-offs for a number of industries in which the smaller firms account for a larger share of total shipments.

In the 1961 Census, in addition to the question on shipments of goods of own manufacture, questions on employment and payroll and on total revenue were added on all short forms. The other elements of principal statistics, viz. value of materials, fuel and electricity, and inventories, are generally estimated by using ratios based on the change in the value of shipments from year to year. This is to permit the complete compilation of basic industry statistics by industry and by geographic location. The proportion of the estimated data is generally less than 5 per cent of the total in each category of principal statistics.

PAINT AND VARNISH MANUFACTURERS

1961

Data presented in this report under the heading of Paint and Varnish Manufacturers reflect implementation of the revised Standard Industrial Classification (S.I.C.) and the New Establishment Concept which are being used by the Dominion Bureau of Statistics in its compilation of 1961 industry statistics—see items “Standard Industrial Classification” and “Establishment” in the Explanatory Notes section of this report. For statistical purposes the industry titled Paint and Varnish Manufacturers in the revised Standard Industrial Classification covers the operations of establishments primarily engaged in manufacturing paints, varnishes, lacquers, enamels and shellac. This industry also includes establishments primarily engaged in manufacturing products such as putty, filler, oil stains and thinners.

For the most part, the changes in the structure of this industry as a result of the introduction of the new Standard Industrial Classification in 1960 were of a relatively minor nature and, as a consequence, had only a minimal effect on the comparability of the statistics presented for this industry before the

change to the new Standard Industrial Classification. Further changes in the structure of this industry due to the implementation of the New Establishment Concept in 1961 were similarly of a relatively minor nature. The overall effect of these changes on this industry is reflected in the series of statistics presented in Table 1A and Table 1B. The former presents the statistics for this industry on the basis of the old Standard Industrial Classification in use prior to 1960 while the latter presents the statistics on the basis of the new Standard Industrial Classification and incorporating as well the changes due to the implementation of the New Establishment Concept.

As a result of increased work loads and staff shortages, it has been necessary to suspend publication of certain tables normally contained in the reports issued in the Census of Manufactures. It is planned to resume publication of these tables in the 1962 reports. In general the tables affected are the following: Directory of Firms—Imports—Exports—Capital and Repair Expenditures.

TABLE 1A. Principal Statistics of the Paints, Varnishes and Lacquers Industry, Significant Years, 1929 - 59

(Basis: Standard Industrial Classification in use prior to 1960)

Year and province	Estab- lish- ments	Em- ployees	Salaries and wages	Cost of fuel and electricity at plant	Cost at plant of materials used	Value added by manufacture	Selling value of factory shipments
	number				dollars		
1929	69	2,851	4,260,019	351,664	12,414,829	14,336,972	27,103,465
1933	78	2,540	3,464,947	247,067	6,153,836	8,495,790	14,896,693
1937	82	3,324	4,827,199	305,775	12,307,011	12,918,331	25,531,117
1939	93	3,540	5,311,616	331,316	12,080,774	13,443,416	25,855,506
1944	97	4,821	8,662,357	521,600	24,789,289	23,796,543	49,107,432
1946	98	5,006	8,847,406	466,512	28,733,401	27,529,707	56,729,620
1949	112	6,035	14,137,815	622,236	42,427,832	39,810,432	82,860,500
1954	124	5,719	19,624,624	831,292	55,060,771	51,899,254	107,727,373
1955	122	5,994	20,768,461	874,952	59,785,089	58,245,997	117,184,189
1956	126	6,211	22,713,345	969,925	65,155,888	60,438,750	126,312,114
1957	129	6,316	24,288,330	1,002,965	65,590,927	64,528,051	131,132,991
1958	131	6,234	25,221,595	963,046	70,560,548	73,063,764	143,096,594
1959	134	6,340	26,624,119	986,187	72,959,855	74,316,626	148,618,625

**TABLE 1B. Principal Statistics, Paint and Varnish Manufacturers,
by Provinces, 1957 - 61**

(Basis: Revised Standard Industrial Classification and New Establishment Concept)

Year and province	Estab- lish- ments	Em- ployees	Salaries and wages	Cost of fuel and electricity at plant	Cost at plant of materials used	Value added by manufacture ¹	Selling value of factory shipments
	number				dollars		
1957							
Quebec	34	2,315	9,213,744	273,350	20,007,355	—	39,357,669
Ontario	67	3,032	11,903,282	586,972	35,258,462	—	72,100,752
Manitoba	5	270	782,408	45,065	3,121,045	—	5,559,926
British Columbia	13	456	1,628,505	64,211	4,573,167	—	10,035,462
Newfoundland	1	133	355,821	21,201	1,141,269	—	2,330,228
Nova Scotia	2						
New Brunswick	1						
Canada	123	6,206	23,883,760	990,799	64,101,298	—	129,384,037
1958							
Quebec	34	2,328	9,564,989	251,496	20,586,392	21,004,649	41,088,839
Ontario	69	2,937	12,193,250	570,336	38,183,466	39,393,768	77,356,310
Manitoba	5	275	852,914	41,472	3,790,435	2,763,816	6,489,954
British Columbia	15	468	1,819,007	67,808	5,577,906	8,655,639	14,047,664
Newfoundland	1	122	393,761	21,957	1,254,878	1,540,959	2,741,122
Nova Scotia	2						
New Brunswick	1						
Canada	127	6,130	24,823,921	953,069	69,393,077	73,358,831	141,723,889
1959							
Quebec	34	2,350	9,985,262	236,639	20,496,722	20,749,099	41,642,005
Ontario	72	2,943	12,693,859	594,287	39,682,149	40,514,204	81,045,464
Manitoba	5	295	997,174	45,753	4,004,923	3,052,774	6,829,770
British Columbia	17	499	2,085,204	74,738	6,102,141	9,258,998	14,978,543
Newfoundland	1	143	450,663	23,654	1,418,425	1,729,334	3,087,584
Nova Scotia	2						
New Brunswick	1						
Alberta	1						
Canada	133	6,230	26,212,162	975,071	71,704,360	75,304,409	147,583,366
1960							
Quebec	36	2,270	10,575,320	249,648	21,167,653	21,069,568	42,550,572
Ontario	71	2,911	13,071,968	612,756	41,112,280	40,036,072	81,662,739
Manitoba	5	268	994,396	53,420	3,795,798	2,683,103	6,548,346
British Columbia	16	510	2,295,340	79,316	5,970,091	7,082,381	13,172,421
Newfoundland	1	147	487,282	21,934	1,494,183	1,713,106	3,203,850
Nova Scotia	2						
New Brunswick	1						
Alberta	2						
Canada	134	6,106	27,424,306	1,017,074	73,540,005	72,584,230	147,137,928
1961							
Quebec	39	2,231	9,780,565	255,901	21,415,020	23,832,078	45,432,272
Ontario	68	2,646	12,287,946	636,951	42,059,806	39,747,232	82,065,943
Manitoba	6	312	1,112,557	52,690	4,017,620	3,595,178	7,562,644
British Columbia	17	481	2,239,785	83,487	6,078,891	8,153,210	14,168,823
Newfoundland	1	132	427,526	21,353	1,494,263	1,628,122	3,127,867
Nova Scotia	2						
New Brunswick	1						
Alberta	2						
Canada	136	5,802	25,848,379	1,050,382	75,065,600	76,955,820	152,357,549

¹ Because of lack of inventory data, "Value added" for 1957 is not available.

TABLE 2. Inventories:¹ Paint and Varnish Manufacturers, 1961

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
	dollars			
Opening:				
Quebec	2,867,859	198,035	3,931,895	6,997,789
Ontario	5,573,442	1,531,871	8,387,322	15,492,635
Manitoba.....	662,675	35,282	567,311	1,265,268
British Columbia.....	1,040,876	182,172	2,141,839	3,364,887
Other provinces.....	364,345	3,456	523,576	891,377
Canada	10,509,197	1,950,816	15,551,943	28,011,956
Closing:				
Quebec	2,887,363	232,425	3,968,232	7,088,020
Ontario	5,456,005	1,616,960	8,680,279	15,753,244
Manitoba.....	784,109	36,272	669,165	1,489,546
British Columbia.....	1,089,554	155,170	2,315,606	3,560,330
Other provinces.....	453,542	6,813	536,090	996,445
Canada	10,670,573	2,047,640	16,169,372	28,887,585

¹ (a) Book value of all manufacturing inventories owned and held at plant and plant warehouses.

(b) The opening inventory for 1961 differs from the closing inventory for 1960 because of the receipt of revised data, the inclusion of new establishments, the removal of figures for establishments which did not operate during 1961, changes in classification, and the implementation of the New Establishment Concept.

TABLE 3. Factory Shipments: Paint and Varnish Manufacturers, 1960 and 1961

Product	1960		1961	
	Quantity	Value of factory shipments	Quantity	Value of factory shipments
		\$		\$
Paste paints (not including water-paste paints)..... lb.	591,447	163,982	1,208,095	286,291
Semi-paste paints (not including water-thinned type). Imp. gal.	60,566	282,809	146,746	625,991
Ready mixed paints and enamels — Exterior type..... "	10,738,379	44,612,020	10,286,028	44,916,852
Interior type..... "	11,259,629	49,914,649	11,103,246	50,334,039
Water-thinned paints and enamels:				
Latex base emulsion paints..... "	4,643,312	18,200,264	4,568,713	19,159,549
Resin and other bases emulsion paints (paste and semi-paste)..... "	372,877	1,155,387	265,134	1,119,131
Casein and other protein bound, glue bound:				
Dry..... lb.	595,748	81,292	1,154,775	145,594
Paste and semi-paste..... Imp. gal.	4,570	10,326	5,325	12,100
Plastic texture, paste and dry..... lb.	230,562	30,298	152,991	20,511
Calcimines..... "	373,253	48,964	257,800	34,449
Lime and cement bound..... "	1,377,134	185,866	2,036,340	257,849
Other water-thinned paints..... "	...	122,999	...	232,431
Lacquers — Cellulose types..... Imp. gal.	2,231,797	7,090,424	2,670,569	8,213,027
Non-cellulose types..... "	223,804	881,344	241,183	1,069,732
Stains (including varnish stains)..... "	281,296	901,557	320,068	1,083,322
Thinners and reducers..... "	2,827,157	4,278,196	2,837,411	4,434,046
Varnishes (for interior and exterior use including shellac varnish, natural and synthetic resin base varnishes, japans, etc. but excluding next item).... "	2,579,185	8,151,739	2,539,061	8,515,256
Insulating varnishes, electrical types..... "	53,494	167,225	92,797	223,474
Colours in oil (except white lead)..... "	21,471	195,955	30,683	350,816
Floor wax..... "	...	59,015	...	68,638
Oils — Boiled linseed, core, stand, blown and enamel..... "	11,765	20,116	8,024	17,895
Paint and varnish removers..... "	130,093	421,081	132,435	451,467

TABLE 3. Factory Shipments: Paint and Varnish Manufacturers, 1960 and 1961 — Concluded

Product	1960		1961	
	Quantity	Value of factory shipments	Quantity	Value of factory shipments
		\$		\$
Patching materials—For walls (including joint filler and cement)	lb. 17,231,207	1,502,315	17,090,906	1,422,480
For floors	897,951	165,078	214,627	120,840
Wood and metal sash putties	12,108,228	1,541,438	8,247,548	1,434,320
Wall size and other sizing materials	179,321	42,936	116,902	26,140
All other products ¹ .....	...	7,248,513	...	8,758,793
Total value of shipments .....	...	147,475,788	...	153,335,033
Less adjustment for value of sales taxes, excise duties and outward transportation charges which were not deducted from individual commodity items detailed above ...	...	...	...	977,484
Total .....	...	...	...	152,357,549

¹ Includes data for items reported by less than three firms, such as caulking materials, auto polish, furniture polish, etc.

Note: Data for 1960 presented in above table are based on the revised 1960 Standard Industrial Classification without revisions for the New Establishment Concept: While not exactly comparable with 1961 figures actual differences are minimal.

TABLE 4. Materials Used: Paint and Varnish Manufacturers, 1960 and 1961

Materials	1960		1961	
	Quantity	Cost at plant	Quantity	Cost at plant
	lb.	\$	lb.	\$
Prime pigments:				
White:				
Antimony oxide	38,443	9,892	42,487	9,698
Basic carbonate white lead—Dry	1,054,624	187,630	838,637	142,546
In oil	176,928	32,861	177,950	33,616
Basic silicate white lead	954,161	191,153	811,061	155,637
Basic sulphate white lead	107,682	19,333	84,237	15,883
Lithopone (30% zinc sulphide)	2,080,529	281,593	901,069	71,326
Titanium dioxide	32,667,796	8,458,330	34,582,672	8,692,323
Extended titanium dioxide pigments	27,972,318	3,121,796	26,207,395	2,953,377
Zinc oxide—Lead free	4,195,358	630,804	3,917,026	558,868
Leaded	366,013	59,253	341,101	52,620
Other white pigments	895,680	118,294	691,753	66,279
Black:				
Lampblack	127,482	33,004	124,605	35,550
Bone black	54,535	13,230	48,680	14,673
Carbon black	311,381	103,602	317,591	108,541
Graphite	82,413	17,214	53,385	6,421
Other black pigments	65,574	16,857	69,300	16,368
Coloured:				
Chrome yellow and orange pigments	1,680,083	629,124	1,563,198	580,981
Cadmium yellow and orange pigments	31,064	29,744	22,890	23,132
Organic yellow and orange pigments	115,118	202,725	129,624	157,998
Other yellow and orange pigments	663,596	298,105	686,261	296,540
Chrome green pigments	776,266	335,948	639,186	287,992
Chromium oxide and hydrated green pigments	108,691	65,179	103,081	49,186
Phthalocyanine greens	84,163	267,855	86,483	286,888
Other green pigments	43,546	48,817	18,036	24,541
Iron blues	126,134	69,490	114,539	66,377
Phthalocyanine blues	72,204	226,081	63,447	197,095
Other blue pigments	123,844	135,549	126,452	122,390
Lithol reds	21,229	30,284	20,817	36,002
Toluidine reds	445,525	547,876	491,037	554,784
Para reds	86,456	75,264	92,609	79,609
Cadmium red and maroon pigments	57,086	140,184	61,475	152,704
Other red and maroon pigments	144,944	416,109	135,503	416,371
Iron oxides (See item immediately below)	3,717,771	440,614	3,510,218	434,206
Ochres, siennas, umbers (not including item immediately above)	299,838	48,241	259,056	45,481
Red lead, including orange mineral	1,683,967	260,133	1,315,610	196,470
Litharge	276,296	41,493	300,417	41,551
Metallic powders (aluminum, bronze, etc.)	1,171,171	576,095	1,136,898	541,594
All other coloured pigments	278,336	127,985	194,768	91,347

TABLE 4. Materials Used: Paint and Varnish Manufacturers, 1960 and 1961 - Continued

Materials	1960		1961	
	Quantity	Cost at plant	Quantity	Cost at plant
	lb.	\$	lb.	\$
Extender pigments:				
Aluminum stearate	253,569	66,259	211,072	67,129
Asbestine or talc	17,329,632	454,875	19,184,535	505,036
Barytes	1,803,478	66,279	1,967,408	80,925
Bentonite	343,493	144,367	323,284	173,137
Blanc fixe	567,270	46,495	477,032	38,762
Calcium carbonate (whiting and chalk)	32,480,577	669,184	32,296,899	669,842
Calcium stearate	28,607	9,455	25,203	8,243
Calcium sulphate (gypsum)	1,919,408	35,511	1,878,308	35,053
Cement (portland)	1,052,245	30,905	944,920	25,477
Diatomaceous earth (dicalite, kieselguhr, celite, etc.)	1,789,227	121,235	2,149,211	132,769
Kaolin or china clay	3,964,577	127,962	4,013,585	125,812
Mica	2,364,002	152,759	2,428,880	161,789
Silica sand and ground quartz	2,249,370	90,491	2,471,342	107,469
Zinc stearate	99,147	25,892	71,936	19,535
Other extender pigments	5,425,816	499,554	3,545,749	511,038
Oils:				
Linseed oil:				
Raw	8,536,644	1,238,595	7,545,669	1,075,811
Boiled and refined	8,922,764	1,362,070	8,154,688	1,292,504
Blown	2,984,525	509,669	2,949,510	503,460
Heat-bodied	5,746,429	1,054,183	4,715,390	812,589
Processed:				
Polymerol	714,533	123,723	670,656	122,237
Vamol	158,282	32,440	99,537	17,505
Castor oil:				
Raw	597,260	109,550	918,228	187,947
Dehydrated	911,757	235,217	657,271	170,204
Chinawood (tung) oil	3,179,599	607,483	2,650,620	712,280
Fish oils	269,983	69,178	296,610	76,004
Oiticica oil	25,611	4,911	65,595	12,220
Perilla oil	—	—	—	—
Silicone oil	15,721	27,069	16,143	30,412
Soya bean oil	9,318,839	1,070,831	10,361,756	1,444,628
Sunflower oil	533,455	92,606	543,938	74,947
Tall oil	1,781,530	163,692	2,223,139	210,357
Other oils	2,522,944	361,239	1,695,477	282,406
Resins:				
Natural:				
Copal	113,520	16,807	118,667	18,272
Manilla	82,515	17,616	89,529	20,086
Damaar	115,869	25,448	81,552	19,974
Kauri	9,500	1,275	8,000	645
Rosin	2,096,750	287,905	1,487,736	236,060
Other	531,410	86,839	489,167	86,840
Synthetic:				
Acrylic	1,355,441	344,882	2,124,395	490,048
Styrenated alkyds	1,409,014	338,632	1,780,239	369,107
Other alkyds	31,130,802	5,747,846	28,078,581	5,634,007
Amines	1,428,463	514,818	1,296,641	452,695
Coumarone-Indene	456,726	72,469	513,012	82,000
Epoxys	1,180,584	547,652	1,623,184	657,398
Ester gum	1,401,793	294,000	1,186,166	285,083
Limed rosin	286,215	45,585	198,959	35,271
Maleics	911,312	241,358	1,176,618	316,922
Pure phenolics	1,120,049	434,184	940,127	398,352
Modified phenolics	1,100,089	281,795	1,084,143	299,263
Urea-formaldehyde	954,148	165,878	970,830	168,169
Vinyls	1,168,817	433,658	1,420,597	512,752
Other	2,462,113	676,155	2,413,531	654,372
Shellac:				
Orange	172,545	56,687	125,971	39,611
Bleached	724,525	331,183	676,770	305,309
Other	208,856	30,581	48,414	23,324

TABLE 4. Materials Used: Paint and Varnish Manufacturers, 1960 and 1961 - Continued

Materials	1960		1961	
	Quantity	Cost at plant	Quantity	Cost at plant
	lb.	\$	lb.	\$
Solvents:				
Acetone.....	916,392	104,021	1,096,140	112,185
Alcohol:				
Amyl (fusel oil).....	18,950	2,895	26,868	4,201
Butyl (including isobutyl).....	2,094,368	346,853	2,322,643	386,927
Ethyl (denatured or not).....	2,359,636	226,135	1,765,130	167,016
Isopropyl.....	2,384,524	186,736	2,386,554	201,455
Methyl (wood or methylated spirits).....	1,004,922	102,194	1,009,026	95,987
Amyl acetate.....	114,995	21,680	208,436	36,638
Butyl acetate.....	2,573,843	402,986	2,529,892	377,910
Butyl "Carbitol".....	51,830	17,349	58,920	19,438
Butyl "Cellosolve".....	342,146	84,185	353,125	86,359
Butyl lactate.....	10,904	2,234	11,806	2,562
"Cellosolve" acetate.....	248,262	58,113	271,270	68,363
Coal tar solvents:				
Benzol.....	391,070	24,746	429,001	26,482
Toluol.....	14,116,811	592,563	14,176,612	613,518
Xylol.....	13,210,842	627,633	13,164,892	603,333
Other coal tar solvents.....	2,200,358	123,041	3,931,566	185,710
Creosote.....	221,420	18,610	255,999	16,430
Dibutyl phthalate.....	214,884	56,244	207,194	64,408
Ethyl acetate.....	1,926,583	247,170	2,250,794	267,642
Ethyl lactate.....	4,183	2,085	2,958	1,479
Methylene chloride.....	736,758	98,316	829,774	114,195
Methyl amyl acetate.....	610,730	105,022	581,117	104,942
Methyl ethyl ketone.....	675,526	100,090	710,213	101,323
Methyl isobutyl ketone.....	1,383,952	226,334	1,506,412	251,704
Petroleum distillates.....	87,212,969	3,122,790	83,035,863	2,888,103
Propyl acetate.....	2,521,364	276,210	2,107,613	217,402
Turpentine.....	2,494,988	235,633	2,440,333	173,069
Other paint, varnish and lacquer solvents and plasticizers.....	9,901,294	1,021,587	7,663,536	978,822
Driers:				
Naphthenates.....	2,473,791	728,414	2,424,433	712,356
Resinates.....	36,276	6,642	133,533	35,123
Linoleates.....	51,523	11,743	30,846	8,955
Other driers.....	279,784	105,469	228,398	94,934
Miscellaneous:				
Acid:				
Fatty:				
Oleic.....	56,683	8,928	56,876	10,448
Stearic.....	34,862	6,964	17,637	3,410
Other fatty acids.....	2,197,699	381,813	1,926,862	244,275
Muriatic.....	85,785	2,584	97,255	4,226
Nitric.....	—	—	—	—
Sulphuric.....	370	57	1,970	272
Anti-skinning agents.....	297,591	291,480	277,474	274,151
Asphalt.....	4,099,801	104,931	3,109,125	109,678
Beta naphthol.....	2,400	68	2,904	211
Carboxymethylcellulose.....	57,418	53,516	89,636	79,714
Casein.....	1,113,867	222,916	1,138,859	244,140
Chlorinated rubber.....	271,931	154,794	356,118	209,788
Ethyl cellulose.....	22,734	19,376	17,454	14,633
Formaldehyde (100% solids content).....	233,496	28,150	356,724	42,159
Glycol, ethylene.....	571,839	97,415	795,803	129,704
Glycols, other (mono, di, tri, etc.).....	563,875	100,619	762,919	139,244
Glycerine.....	2,220,918	671,484	2,340,453	677,047
Glyceryl mono oleate.....	7,400	2,915	18,628	6,732
Glue.....	260,971	56,610	149,092	39,789
Latex emulsion.....	13,058,926	2,290,029	12,576,944	2,165,581
Lecithin.....	356,426	77,604	598,086	99,126
Nitrocellulose.....	2,785,457	891,653	3,234,331	1,098,266
Pentaerythritol.....	3,305,586	998,595	3,182,485	949,480
Phthalic anhydride.....	9,275,484	1,719,891	10,524,752	2,025,831
Pitch, coal tar.....	1,220,675	62,762	1,297,054	70,664
Potassium bichromate.....	2,045	377	11,771	2,385

TABLE 4. Materials Used: Paint and Varnish Manufacturers, 1960 and 1961 - Concluded

Materials	1960		1961	
	Quantity	Cost at plant	Quantity	Cost at plant
	lb.	\$	lb.	\$
Miscellaneous - Concluded:				
Sodium bichromate.....	99,551	11,677	112,350	20,493
Sodium prussiate.....	23,340	2,908	10,972	1,235
Urea.....	169,448	14,711	184,444	11,940
Varnishes.....	4,912,535	873,696	3,990,703	717,067
Wax:				
Beeswax.....	1,844	620	1,373	434
Carnauba.....	9,458	8,312	22,194	17,042
Paraffin.....	59,594	8,914	73,860	11,214
Other.....	98,549	28,215	246,273	70,528
All other materials ¹.....	...	6,633,201	...	6,421,300
Containers and other packaging materials or supplies.....	...	10,196,282	...	11,724,370
Totals.....	...	74,264,463	...	75,065,600

¹ No detailed information on materials used was collected from small establishments. The estimated value of materials used by these establishments was \$1,569,500 in 1960 and \$1,694,500 in 1961 and these amounts are included in "All other materials". The value of shipments of these small establishments was \$3,094,706 in 1960 and \$3,172,829 in 1961.

Note: Data for 1960 presented in above table are based on the revised Standard Industrial Classification without revisions for the New Establishment Concept. While not exactly comparable with 1961 figures actual differences are minimal.

TABLE 5. Factory Shipments,¹ Imports and Exports of Paints and Varnishes, 1957-61

Year	Factory shipments ¹	Imports	Exports
		dollars	
1957.....	124,031,000	4,404,000	1,058,000
1958.....	135,207,000	5,256,000	1,082,000
1959.....	140,620,000	5,669,000	1,195,000
1960.....	140,160,000	6,149,000	929,000
1961.....	145,062,000	6,167,000	1,314,000

¹ Shipments figures represent the total Canadian shipments, including some paints and varnishes made in other industries.

² The totals for factory shipments include thinners, paint and varnish removers, ready mixed paints, paste and semi-paste paints, water thinned paints, varnishes and shellacs, lacquers and stains.

TABLE 6. Factory Shipments and Imports of Putty, 1952-61

Year	Factory shipments		Imports	
	Quantity	Selling value at plant	Quantity	Value
	lb.	\$	lb.	\$
1952.....	11,176,000	817,000	162,000	32,000
1953.....	11,159,000	814,000	347,000	48,000
1954.....	10,341,000	769,000	421,000	60,000
1955.....	11,768,000	836,000	802,000	92,000
1956.....	12,581,000	1,007,000	786,000	127,000
1957.....	12,633,000	1,094,000	839,000	129,000
1958.....	16,207,000	1,621,000	1,081,000	162,000
1959.....	12,137,000	1,468,000	998,000	165,000
1960.....	13,778,000	1,676,000	633,000	142,000
1961.....	12,999,000	1,823,000	605,000	165,000

TABLE 7. Principal Statistics, classified according to Type of Ownership: Paint and Varnish Manufacturers, 1960 and 1961

Type	Estab- lish- ments	Em- ployees	Salaries and wages	Cost at plant of materials used	Selling value of factory shipments
	number		dollars		
1960					
Individual ownership	16	40	130,088	375,281	600,116
Partnerships	3	10	28,500	65,000	114,479
Incorporated companies	120	6,114	27,508,389	73,824,182	146,761,193
Totals	139	6,164	27,666,977	73,264,463	147,475,788
1961					
Individual ownership	17	45	143,195	429,382	726,097
Partnerships	1				
Incorporated companies	118	5,757	25,705,184	74,636,218	151,631,452
Totals	136	5,802	25,848,379	75,065,600	152,357,549

Note: Data for 1960 presented in above table are based on the revised Standard Industrial Classification without revisions for the New Establishment Concept. While not exactly comparable with 1961 figures actual differences are minimal.

TABLE 8. Principal Statistics Grouped According to Selling Value of Factory Shipments: Paint and Varnish Manufacturers, 1960 and 1961

Establishments reporting value of factory shipments	Estab- lish- ments	Em- ployees	Salaries and wages	Cost at plant of materials used	Selling value of factory shipments
	number		dollars		
1960					
Under \$10,000	6	6	15,000	15,500	33,586
\$ 10,000 to \$ 24,999	5	12	30,500	32,000	71,527
25,000 " 49,999	14	41	117,491	273,931	538,196
50,000 " 99,999	18	83	279,412	646,998	1,247,821
100,000 " 199,999	15	96	351,920	1,075,924	1,980,062
200,000 " 499,999	28	447	1,961,796	5,604,584	9,566,844
500,000 " 999,999	15	535	2,192,972	6,007,121	11,486,114
1,000,000 " 4,999,999	31	2,475	10,920,859	33,608,351	65,600,268
5,000,000 and over	7	2,194	9,843,179	27,000,054	56,951,370
Head offices	—	275	1,953,848	—	—
Totals	139	6,164	27,666,977	74,264,463	147,475,788
1961					
Under \$10,000	6	8	16,507	22,500	47,095
\$ 10,000 to \$ 24,999	4	5	20,527	30,579	69,652
25,000 " 49,999	10	34	94,261	216,000	400,404
50,000 " 99,999	20	77	274,315	769,682	1,394,895
100,000 " 199,999	18	142	550,191	1,550,438	2,747,278
200,000 " 499,999	22	292	1,285,729	4,326,176	7,333,568
500,000 " 999,999	16	427	1,796,887	6,005,811	11,718,806
1,000,000 " 4,999,999	34	2,543	11,363,470	39,230,847	78,179,630
5,000,000 and over	6	1,955	8,082,919	22,913,567	50,466,221
Head offices	—	319	2,363,573	—	—
Totals	136	5,802	25,848,379	75,065,600	152,357,549

Note: Data for 1960 presented in above table are based on the revised Standard Industrial Classification without revisions for the New Establishment Concept. While not exactly comparable with 1961 figures actual differences are minimal.

TABLE 9. Employees and their Earnings: Paint and Varnish Manufacturers, 1960 and 1961

Province	Employees					Earnings		
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	Total
	Male	Female	Male	Female				
	number					dollars		
1960								
Quebec	799	439	959	95	2,292	6,420,889	4,268,632	10,689,521
Ontario	813	428	1,608	94	2,943	6,216,387	6,964,688	13,181,075
Manitoba.....	49	23	165	31	268	397,601	596,795	994,396
British Columbia.....	143	75	243	49	510	1,166,541	1,128,799	2,295,340
Other provinces.....	30	20	84	17	151	200,613	306,032	506,645
Canada	1,834	985	3,059	286	6,164	14,402,031	13,264,946	27,666,977
1961								
Quebec	791	480	851	109	2,231	6,353,105	3,427,460	9,780,565
Ontario	734	368	1,460	84	2,646	5,831,662	6,456,284	12,287,946
Manitoba.....	71	31	180	30	312	615,141	497,416	1,112,557
British Columbia.....	127	77	236	41	481	1,074,570	1,165,215	2,239,785
Other provinces.....	11	21	82	18	132	134,758	292,768	427,526
Canada	1,734	977	2,809	282	5,802	14,009,236	11,839,143	25,848,379

Note: Data for 1960 presented in above table are based on the revised Standard Industrial Classification without revisions for the New Establishment Concept. While not exactly comparable with 1961 figures actual differences are minimal.

TABLE 10. Production Workers, by Months: Paint and Varnish Manufacturers, 1961

Month	Establishments reporting monthly detail	
	Male	Female
January	2,611	271
February.....	2,639	287
March	2,684	295
April	2,742	295
May	2,869	295
June	2,903	303
July	2,873	295
August	2,785	287
September.....	2,712	281
October	2,662	261
November	2,574	241
December	2,541	219
Average for establishments reporting monthly detail	2,720	277
Average for small establishments ¹	89	5
Average for all establishments.....	2,809	282

¹ The monthly detail of production workers was not collected from small establishments. Only annual averages were collected from these establishments.



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TABLE 11. Fuel and Electricity Used: Paint and Varnish Manufacturers, 1961

Kind	Quantity	Cost at plant
		\$
1. Establishments reporting commodity detail:		
Bituminous coal:		
(a) From Canadian mines ton	895	13,217
(b) Imported "	4,212	46,605
Anthracite coal "	25	413
Lignite coal "	27	260
Coke "	300	5,700
Gasoline (including gasoline used in cars and trucks) Imp. gal.	218,833	86,648
Fuel oil including kerosene or coal oil "	3,269,940	332,175
Wood cord	11	89
Gas:		
(a) Liquefied petroleum gases Imp. gal.	11,320	3,625
(b) Natural gas M cu. ft.	93,446	102,370
Other fuel ..... ..	..	8,873
Electricity purchased kwh.	25,954,685	395,438
Steam purchased ..... ..	..	18,369
2. Estimate for establishments for which no data were collected: ¹		
Cost of fuel and electricity ..... ..	..	36,600
3. All establishments:		
Total cost of fuel and electricity ..... ..	...	1,050,382

¹ No detailed information on fuel and electricity used was collected from small establishments.