



Industrial Chemicals and Synthetic Resins

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Table 1

Production of New Virgin Resin (Excluding Compounding or Colouring Ingredients), by Products, Canada

Product	SCG* Code	December 2001	Year-to-date 2001	December 2002	Year-to-date 2002	Year-to-date change 2002/2001
metric tonnes						%
Synthetic resin						
Polyethylene, low and linear low density ¹	3901.10, 3901.90.10	x ²	x	158,891	x D	x
Polyethylene, high density	3901.20	x ²	x	99,724	x A	x
Polyethylene, total²		266,165²	3,034,937²	258,615	3,330,257 C	9.7
Polystyrene and acrylonitrile-butadiene-styrene (abs) ³	3903.10, 3903.30	16,211	185,519	15,127	195,138 A	5.2
Polyvinyl chloride	3904.10	x	x	x	x A	x
Polyesters, unsaturated	3907.91	7,513	114,936	6,965	113,138 C	-1.6

See footnote(s) at end of Table 2.

Selected data series are available on **CANSIM**, table 303-0014.

Manufacturing, Construction and Energy Division

February 2003

Note of appreciation

Canada owes the success of its statistical system to a long-standing partnership between Statistics Canada, the citizens of Canada, its businesses and governments. Accurate and timely statistical information could not be produced without their continued cooperation and goodwill.

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Table 2
Production of Industrial Chemicals, by product, Canada

Product	SCG* Code	December	Year-to-date	December	Year-to-date	Year-to-date
		2001	2001	2002	2002	change 2002/2001
		metric tonnes				%
Acids						
Hydrochloric (muriatic) acid, 100%	2806.10.20	12,086	143,227	12,969	151,334 B	5.7
Nitric acid, 100 %	2808.00.10	102,609	1,053,557	87,008	1,142,723 A	8.5
Phosphoric acid, wet process	2809.20	x	x	x	x A	x
Sulphuric acid, all grades, including oleum, as 100%	2807	377,051	3,846,410	340,519	3,887,376 C	1.1
Other Industrial Chemical Products						
Aluminum sulphate (alum)	2833.22	13,193	169,765	13,856	176,426 C	3.9
Ammonia, anhydrous, 100%	2814.10	394,339	4,296,827	432,931	4,501,117 A	4.8
Ammonium nitrate, all grades	3102.30	108,040	1,173,641	92,654	1,151,885 A	-1.9
Ammonium phosphate, all grades	3105.30	x	x	x	x A	x
Butadiene	2901.24.10	22,065	245,469	23,549	275,926 A	12.4
Butylene	2901.23	21,426	269,453	20,236	254,833 A	-5.4
Carbon black	2803	14,551	215,448	15,725	215,322 A	-0.1
Chlorine	2801.10	88,628	1,053,723	90,238	1,094,644 A	3.9
Ethylene	2901.21	387,899	4,261,241	394,171	4,733,660 A	11.1
Formaldehyde, 100% solids basis	2912.11	11,206	179,126	17,618	211,528 D	18.1
Hydrogen peroxide, 100%	2847.00	16,396	203,400	18,574	222,008 A	9.1
Methyl alcohol (methanol)	2905.11	x	x	x	x B	x
Propylene, as propylene in all grades	2901.22	79,668	881,845	83,859	955,943 A	8.4
Sodium chlorate	2829.11	90,697	1,081,898	95,565	1,055,119 A	-2.5
Sodium hydroxide (caustic soda), as 100% NaOH	2815.10	90,201	1,073,900	90,965	1,111,006 A	3.5
Urea, all grades	3102.10	314,005	3,362,864	350,916	3,436,358 A	2.2
Benzene	2902.20	69,605	751,116	78,544	849,468 A	13.1
Toluene	2902.30	21,782	222,360	21,692	256,215 A	15.2
Xylene	2902.40	23,005	271,455	27,983	293,968 A	8.3
Zinc oxide	2817.00.10	x	x	x	x A	x

Symbols

* Standard Classification of Goods (SCG) Code.

r revised.

x suppressed to meet the confidentiality requirements of the Statistics Act.

¹ Polyethylene, low, and linear low densities combines two Standard Classification of Goods (SCG) codes: 3901.10, and 3901.90.10.² Polyethylene, low, linear low and high densities combines three Standard Classification of Goods (SCG) codes: 3901.10, 3901.90.10 and 3901.20.³ Polystyrene and acrylonitrile-butadiene-styrene (abs) combines two Standard Classification of Goods (SCG) codes: 3903.10 and 3903.30.**Note**

Coverage of the commodities listed above approximates 100% of the known production. Small amounts of occasional secondary production may not be measured.
 Year to date (A-B-C-D): see « Degree of estimation » symbols in the explanatory notes for corresponding percentage.

Explanatory Notes

This survey measures **the production of specified commodities**. Data collected from this survey are important because they measure production of this industrial sector, providing an indication of the well being of this industry and its contribution to the Canadian economy. This survey is conducted under the secrecy provisions of the *Statistics Act*, which prohibit the publication of information, which can be related to any individual person, business or organization. The target population includes all major manufacturers. The survey frame is based mainly on the annual survey of manufactures (ASM). Since the ASM lags behind this commodity survey, there is a risk of undercoverage but this should be minimal because of advance information from the ASM frame and feedback from the monthly survey of manufacturing (MSM). The last break in these series occurred in 1988 with the introduction of the harmonized system (HS) coding system.

All survey data, from whatever source, are subject to error. The main sources of error are coverage error, response error, processing error and non-response error. Based on the 2000 ASM, production published in this survey account for 100% of the **total volume of these commodities produced**. On a monthly basis, late responses are imputed using a variety of methods, the most common being trend analysis.

Data presented in this publication were collected by a mail survey of all companies known to manufacture the products listed in Tables 1 & 2. The production figures for synthetic resins represent new virgin resins produced, and exclude compounding or coloring ingredients. For industrial chemicals, quantities include intermediate products made for use within the reporting establishment, in addition to those produced for sale.

Occasionally, revisions are made to the data after publication. All revisions are included in the year-to-date data published in subsequent issues. Normally revisions are restricted to the current and immediately preceding year, after this the data are considered final.

Data reported to the annual survey represent the 12 months corresponding to the fiscal year of the firms reporting. The annual publications report shipments while the monthly publication reports production. In recent years sampling methodology has been introduced to the annual survey and this may impact on the coverage of commodities.

For general information or to order data, contact the Dissemination Officer (1-866-873-8789; 613-951-9497; manufact@statcan.ca), Manufacturing, Construction and Energy Division.

Degree of estimation

For the twelve month period in 2002, the degree of estimation for non-response is indicated beside each product. The following symbols in the year-to date column for 2002 data indicate the degree of estimation due to non-response

Symbol	% Estimated
A	0.0%
B	Less than 1.0%
C	1.0% to 2.5%
D	2.6% to 5%

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List of Reporting Firms, December 2002

Name	Plant Location
A T Plastics Inc.	Brampton, Ont. Edmonton, Alta.
Agrimium Inc.	Carseland, Alta. Joffre, Alta. Redwater, Alta. Fort Saskatchewan, Alta.
Albchem Industries Ltd Alpha-Owens-Corning Canada Inc ARC Resins Corporation Ashland Canada Corp.	Bruderheim, Alta. Guelph, Ont. Longueuil, Qué. Mississauga, Ont. Kelowna, B.C. - C.B.
Atofina Canada Inc. Bayer Inc. BC Chemicals Ltd. Borden Chemical Canada Ltd. (Div. of The Borden Company Limited)	Bécancour, Qué. Sarnia, Ont. Prince George, B.C. - C.-B. Laval, Qué. Edmonton, Alta.
Border Chemical Company Limited Cabot Canada Ltd. Cameco Corporation	Vancouver, B.C. - C.-B. Winnipeg, Man. Sarnia, Ont. Rabbit Lake, Sask. Key Lake, Sask.
Canadian Fertilizers Limited Cancarb Limited Celanese Canada Inc. Columbian Chemicals Canada Ltd. Cominco Ltd. Compagnie Chimique Huntsman du Canada Inc. Degussa Canada Dofasco Inc. Dow Chemical Canada Inc.	Medicine Hat, Alta. Calgary, Alta. Edmonton, Alta. Hamilton, Ont. Trail, B.C. - C.-B. Mansonville, Qué. Gibbons, Alta. Hamilton, Ont. Sarnia, Ont. Fort Saskatchewan, Alta.
Duke Energy Gas Transmission (Sulphur Products Div.) DuPont Canada Inc.	Prentiss, Alta. Prince George, B.C. - C.-B. Ajax, Ont. Corunna, Ont. Kingston, Ont. Maitland, Ont. Whitby, Ont.
Dynea Canada Ltd.	Ste-Thérèse, Qué. North Bay, Ont. Thunder Bay, Ont.
Eaglebrook Inc. EKA Chemicals Canada Inc. / EKA Chimie Canada Inc.	Ottawa, Ont. Magog, Qué. Valleyfield, Qué.
FMC of Canada Ltd. Falconbridge Ltd. (Metalurgical Div.) Falconbridge Ltd. (Sudbury Div.) Fertichem Inc. G.H. Chemicals Ltd. / Produits Chimiques D.H. Ltée. General Chemical Canada Ltd. (Water Chemical Div.)	Prince George, B.C. - C.-B. Timmins, Ont. Falconbridge, Ont. St-Michel, Qué Saint-Hyacinthe, Qué. Dalhousie, N.B. Valleyfield, Qué. Iroquois Falls, Ont. Thorold, Ont. Thunder Bay, Ont. Barnet, B.C. - C.-B.
Hall Chem Mfg Inc. Hudson Bay Mining and Smelting Co. Ltd. (Zochem Div.) Imperial Oil Ltd. (Products and Chemicals Div.)	Montréal, Qué. Brampton, Ont. Nanticoke, Ont.
Inco Ltd. (Ont. Div.) Kemira Chemicals Canada Korex Don Valley ULC	Sarnia, Ont. Coppercliff, Ont. Maitland, Ont. Toronto, Ont.

List of Reporting Firms, December 2002– Concluded

Name	Plant Location
Kronos Canada Inc.	Varenes, Qué.
Lake Erie Steel Company Ltd.	Nanticoke, Ont.
Lilly Industries Inc.	Cornwall, Ont.
Marsulex Inc.	Saskatoon, Sask.
	Calgary, Alta.
	Fort Saskatchewan, Alta.
Methanex Corporation	Kitimat, B.C. - C.-B.
Nexen Chemicals Canada Ltd. Partnership	Amherstburg, Ont.
	Beauharnois, Qué.
	Brandon, Man.
	Bruderheim, Alta.
	Nanaimo, B.C. - C.-B.
	North Vancouver, B.C. - C.-B.
Nitrochem Corp.	Maitland, Ont.
Noranda Inc. Brunswick Smelter	Belledune, N.B.
Noranda Inc. (Fonderie Horne)	Rouyn-Noranda, Qué.
Nova Chemicals Corporation	Montréal, Qué.
	Corunna, Ont.
	Sarnia, Ont.
	Moore Township, Ont.
	St. Clair River, Ont.
	Joffre, Alta.
Orica Canada	Brownsburg, Qué.
Oxy Vinyl Canada Inc.	Niagara Falls, Ont.
	Scotford, Alta.
PCI Chimie Canada Inc.	Dalhousie, N.B.
	Bécancour, Qué.
	Cornwall, Ont.
PPG Canada Inc.	Beauharnois, Qué.
Petro-Canada	Montréal, Qué.
	Oakville, Ont.
Petromont Société en Commandite	Montréal, Qué.
	Varenes, Qué.
PFB Corporation	Calgary, Alta.
Reichhold Limited	Port Moody, B.C. - C.-B.
Royal Polymers Ltd.	Sarnia, Ont.
Ste-Anne Nackawic Pulp Co. Ltd. (Chemical Division)	Nackawic, N.B.
SaskFerro Products Inc.	Belle Plaine, Sask.
Shell Canada Limited	Montréal, Qué.
	Sarnia, Ont.
	Scotford, Alta.
Simplot Canada Limited	Brandon, Man.
	Tuxford, Sask.
Stelco Inc.	Hamilton, Ont.
	Nanticoke, Ont.
Sterling Pulp Chemicals Ltd.	Buckingham, Qué.
	Thunder Bay, Ont.
	Grand Prairie, Alta.
	Saskatoon, Sask.
	Vancouver, B.C. - C.-B.
Styrochem International Ltée	Baie d'Urfé, Qué.
Sulco Chemicals Ltd.	Elmira, Ont.
Suncor Énergie Products Inc.	Sarnia, Ont.
Terra International (Canada) Inc.	Courtright, Ont.
Uniboard Canada Inc.	Val D'or
Zinc Electrolytique Du Canada Ltée	Salaberry de Valleyfield, Qué.