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PRODUCTS OF PETROLEUM AND COAL

General Review

1959



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PUBLICATIONS

The results of the annual Census of Industry are published by the Dominion Bureau of Statistics in a series of industry reports which are released each year as the compilations are completed. Reports for industries in the **Products Made from Petroleum and Coal Major** Group are listed below, along with current and annual publications of related interest. Similar reports are issued for other industries. A complete catalogue of publications of the Bureau is available on request from the Information Services Division, Dominion Bureau of Statistics, Ottawa, or from the Queen's Printer, Ottawa.

A - Annual M - Monthly S.C. - Special S.A. - Semi-Annual O - Occasional Compilation

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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 130 publications which present the results of the 1959 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. An annual Census of Manufactures has been carried out by the Dominion Bureau of Statistics since 1916.

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 1959 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

Data for the annual census is collected on an establishment basis. A firm with more than one plant is required to file a report for each plant. In most cases an establishment is a complete factory. Sometimes, however, a plant is divided into two or more establishments when it carries out operations classifiable to different industries and when separate accounting records are available. Usually the statistics for an establishment relate only to the manufacturing activities. Other activities such as construction at the plant by its own employees, wholesale or retail activities carried on at the plant location, etc., are not included. Plants engaged solely in repair work (except in the case of furniture. shipbuilding, boat building, aircraft and railway rolling stock industries) are not included but plants occupied in assembling parts into complete units are included.

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.

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, warehousing and delivery staffs. 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 calendar years 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 but not their withdrawals for income tax. 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 works, including freight, duty, etc.

Materials and Supplies Used

Figures represent quantities and laid-down cost values, at the works, of materials and supplies 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 of 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 refer to shipments of goods made from own materials either in the reporting plant or by other manufacturers on the basis of a charge to the reporting plant 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 are included. Goods bought or received as transfers and resold without further processing are not included. Values are computed on f.o.b. plant or

plant warehouse 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 values of manufacturing inventories owned and held at the reporting plant. Figures include inventories held in warehouses or selling outlets which have been included with plant operations for purposes of reporting shipments.

Value Added by Manufacturing

Figures are computed from value of shipments plus or minus changes in inventories of finished goods and goods in process less cost of materials, fuel and electricity. This figure is sometimes referred to as net production.

Standard Industrial Classification

The Standard Industrial Classification Manual, prepared by the Dominion Bureau of Statistics, provides for 135 three-digit industries in the manufacturing sector, arranged in 17 major groups. Reporting establishments are classified or allotted to specific industries on the basis of the value of principal products made or shipped.

Short Forms

Between 1949 and 1957, in an effort to ease the reporting burden for smaller firms, a short form was used asking for the total value of shipments only or, in a few cases where losses of detail were significant, for quantities and values of principal products. For purposes of publication, missing data were estimated on the basis of appropriate ratios. In general the cut-off point for these short forms was set at \$50,000 value of shipments. About 40% of the total number of establishments reported on the short form and accounted for less than 3 per cent of the total value of shipments.

In 1958, in order to establish a new base year, the small firms were asked to report all items of principal statistics together with some detail on materials and products.

For the 1959 Census, the short form was used again, but further steps were taken to ease the respondents' burden. First, the general limit for short forms was raised to \$100,000 value of shipments. In addition, a new intermediate form was developed. This form is a shortened version of the long form in that most 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 intermediate forms there were lower cut-offs for a number of industries in which the smaller firms accounted for a larger share of total shipments. On the other hand, limits were raised where this could be done without a significant loss of coverage. On most of the short forms for 1959, in addition to total value of shipments, data on principal products were requested. In a few industries, where loss of employment and earnings data were considered too large because of higher cut-offs, a question on total payroll was placed on the short form.

The intermediate and long forms provide complete data for the compilation of all elements of principal industry statistics and the details of materials and products. The one-page short form, although containing data on principal products and total value of shipments, does not request information on other elements of principal statistics such as value of inventories, materials, fuel and electricity and, in most cases, employment and salaries and wages, nor does it contain detailed data on volume and value of materials used. For purposes of compiling aggregates of principal statistics by industry and by geographic location, the missing data for each establishment were estimated for 1959 by using, in general, ratios based on the change in the value of shipments between 1958 and 1959. The proportion of the estimated data was generally less than 5 per cent of the total in each category of principal statistics.

The general request for the principal items of products on the short form for 1959 permitted a fairly complete compilation of the detailed quantities and values of commodity shipments. In the case of the detailed quantities and values of materials, fuel and electricity, however, and the monthly distribution of production workers, only the totals of data actually reported on the intermediate and long forms are contained in published reports and no attempt was made as in past years to estimate the generally small proportion of individual totals represented by detailed items omitted from the short forms.

The new approach has relieved an additional 12,000 establishments from filling out the regular long form. Establishments now receiving the short form number in excess of 20,000 and account for more than 54 per cent of the total number of establishments and a little more than 3 per cent of the total value of shipments.

^{&#}x27;To arrive at the National Accounts concept of ''gross domestic product at factor cost'', it would be necessary to subtract also the cost of office supplies used, advertising, insurance and other goods and services obtained from other businesses. Data on these inputs are not collected on the annual Census of Manufactures. Value added figures for "The primary industries and construction" are published in D.B.S. publication 61—202, Survey of Production.

PRODUCTS OF PETROLEUM AND COAL

General Review

1959

The Standard Industrial Classification which has been used by the Dominion Bureau of Statistics in its compilations since 1949 provides for a separate "Products of Petroleum and Coal" group. This major division includes the petroleum products industry, the coke and gas industry and a miscellaneous industry which was classified, in earlier years, to the manufacturers of the Non-Metallic Mineral Products Group.

The gross value of production by the industries in this group was \$1,268,007,449 in 1959; representing a decrease of 13.5 per cent from the \$1,466,409,361 reported in 1958. (However, it should be noted that the major contributing factor to this decline was a change in the basis of valuation in the Petroleum Refining Industry rather than an actual decrease in production. For a more detailed explanation see footnote to Table 1.) Employment decreased to 16,775 in 1959 from the 17,427 reported in 1958. Payments in salaries and wages advanced to \$93.9 millions. Materials for manufacturing cost \$936.2 millions in 1959, and fuel and electricity cost \$57.9 millions; in 1958 the corresponding amounts were \$894.5 millions and \$56.4.

Note: In 1952 the gross value of production was replaced by value of factory shipments f.o.b. plant for all the industries classified to this group except for Petroleum Refining and Coke and Gas. As no information on inventory change is available for 1953, value added figures for this year were obtained by subtracting from the value of factory shipments (Production in the case of Petroleum Refining and Coke and Gas) the cost of materials, fuel and electricity. In 1954 and subsequent years information on the value of year-end inventory holdings at plant and plant warehouses was collected as part of the annual Census of Industry and except for Petroleum Refining and Coke and Gas, the information thus made available was taken into account in calculating the value added figures. In 1954 and 1955 the "Value added" adjustment incorporated the increase or decrease to shipments values resulting from changes in the value of inventories over the period. For these two years, the adjustments that were made used only the change in finished product inventory owned by manufacturers. Beginning with 1956 the calculation of the "Value added" figure was further adjusted to take into account the "Goods in process" as well as the finished goods held at plant or plant warehouse.

TABLE 1. Principal Statistics for the Products of Petroleum and Coal Group, by Industries and by Provinces. 1958 and 1959

		19	58 and 1959				
Industry and province	Estab- lish- ments	Employees	Salaries and wages for year	Cost of fuel and electricity at plant	Cost at plant of materials used	Gross selling value of products at plant	Value added by manufacture ¹
	n	umber			dollars		
1958							
By industries:							
Coke and gas	16	2, 455	10,871,876	5,001,223	56, 272, 204	82, 788, 690	21, 515, 263
Petroleum products	71	14, 490	76, 643, 818	51, 052, 196	829, 920, 509	1, 368, 649, 087	487, 676, 362
Miscellaneous products of petroleum and coal	28	482	1,974,812	347, 391	8, 264, 800	14, 971, 584	6, 281, 788
Totals	115	17, 427	89, 490, 506	56, 400, 810	894, 457, 513	1, 466, 409, 361	515, 473, 433
1050							
1959						4	
Coke and gas	13	2,171	10, 340, 973	5, 604, 543	64, 460, 331	96, 410, 654	26, 894, 464
Petroleum products	69	14, 142	81, 554, 767	51, 967, 235	863, 895, 812	1,156,912,043	244, 973, 628
Miscelianeous products of petroleum and coal	30	462	2, 000, 636	327, 083	7, 832, 195	14,684,752	6,676,320
Totais	112	16,775	93, 896, 376	57, 898, 861	936, 188, 338	1, 268, 007, 449	278, 544, 412
1958							
By provinces;							
Newfoundland	1	1					
Nova Scotia	2	784	4, 142, 407	4, 301, 359	57, 004, 614	92, 996, 590	31,699,374
New Brunswick	-						
Quebec	19	3, 581	18, 248, 651	17, 119, 969	288, 376, 128	483, 720, 411	178, 238, 838
Ontario	32	7, 154	37, 487, 663	20, 228, 858	299, 907, 424	457, 314, 090	137, 162, 049
Manitoba	6	726	3, 035, 237	2, 128, 148	34, 520, 797	57,632,093	20, 983, 206
Saskatchewan	13	1,218	6,019,155	2, 940, 903	50, 631, 451	83, 164, 169	29, 505, 893
Alberta	27	2, 251	11,676,035	4, 287, 581	82, 540, 811	151, 438, 143	64, 610, 488
British Columbia	13)					
Northwest Territories	1	1,713	8,881,358	5, 393, 992	81, 476, 288	140, 143, 865	53, 273, 585
Canada	115	17, 427	89, 490, 506	56, 400, 810	894, 457, 513	1, 466, 409, 361	515, 473, 433
1959							
Newfoundland	-1	1					
Nova Scotia	2	690	3, 965, 686	4, 199, 085	55, 002, 583	77, 708, 786	15, 838, 475
New Brunswick	1		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Quebec	18	3, 356	18,428,739	15, 775, 551	290, 858, 306	383, 680, 026	76, 917, 253
Ontario	31	7,077	41, 083, 676	22, 411, 033	336, 791, 069	440, 573, 876	82, 803, 451
Manitoba	6	714	3, 274, 643	2, 239, 151	34, 305, 743	50, 401, 224	14, 863, 628
Saskatchewan	11	1, 137	6, 042, 058	3, 355, 117	54, 100, 848	80, 618, 207	24, 306, 382
Alberta	29	2, 192	12, 152, 474	4, 459, 311	85, 417, 064	125, 564, 035	38, 406, 117
British Columbia	12)					
Northwest Territories	1	1,609	8,951,100	5, 459, 613	79, 714, 725	109, 481, 295	25, 409, 106
Canada	112	16,775	93, 896, 376	57, 898, 861	936, 188, 338	1, 268, 007, 449	278, 544, 412

¹ See note to text.

Note: The apparent decline shown in "Value added" and "Gross selling value of products" in 1959 from 1958 by the Petroleum Refining Industry primarily was due to a change in the basis of valuation used by the refining companies in calculating the value of products made. Since 1954 most of the major refiners have reported value of products in the annual Census of Industry at a valuation nearer the marketing (wholesale) level than the manufacturing (refining) selling value. In order to bring the level of valuation more in line with the manufacturing level as reported by other industries in the annual Census of Industry all firms classified to the Petroleum Refining Industry were asked in 1959 to report the value of their products at a level which would approximate as closely as possible a manufacturing (refining) selling value. For further data on Comparison of "Factory shipments" and "Value added", "new" basis versus "old" basis, see 1959 report for "The Petroleum Products Industry".

TABLE 2. Employees and their Earnings in the Products of Petroleum and Coal Group, 1958 and 1959

			Employees	Earnings				
Industry and province	Supervisory and office		Production and related workers		Total	Supervisory and	Production and related	Total
-	Male	Female	Male	Female		office	workers	
		1	number				dollars	
1958								
1928								
By industries:								
Coke and gas	378	145	1,932		2,455	2, 152, 368	8,719,508	10.871.87
Petroleum products	4,744	1,483	8,203	60	14, 490	35,786,891	40,856,927	78,643,81
Miscellaneous products of petroleum and								
coal	135	53	294	_	482	850,045	1,124,767	1,974,81
Totals	5,257	1,681	10,429	60	17,427	38, 789, 304	50, 701, 202	89,490,50
By provinces:								
Newfoundland)							
Nova Scotia	126	23	633	2	784	909,159	3, 233, 248	4,142,40
New Brunswick								
Quebec	994	177	2,402	8	3,581	6,645,890	11,602,761	16,248,65
Ontario	2,492	980	3,653	29	7, 154	19, 378, 937	18, 108, 726	37,487,66
Manitoba	191	165	367	3	726	1,556,341	1,478,896	3,035,23
Saskatchewan	308	58	850	2	1,218	2,063,642	3,955,513	6,019.15
Alberta	615	159	1.472	5	2.251	4.596,290	7,079,745	11,676,03
British Columbia	1	-		- 4				0.001.00
Northwest Territories	531	119	1,052	11	1,713	3,639,045	5, 242, 313	8,881,35
Canada	5,257	1,681	10,429	60	17, 427	38, 789, 304	50,701,202	89, 490, 50
1959								
By industries:								
Coke and gas	321	85	1,785	_	2, 171	1,900,383	8,440,590	10,340,97
Petroleum products	4,860	1,450	7,775	57	14, 142	39,903,640	41,651,127	81, 554, 76
Miscellaneous products of petroleum and	4,000	1,400	1,110	31	14, 142	39,803,040	41,001,121	01,234,10
coal	132	52	278	-	462	891,649	1,108,987	2,000,63
Totals	5,313	1,587	9,818	57	16, 775	42,695,672	51, 200, 704	93,896,37
By provinces:								
Newfoundland	3							
Nova Scotla	113	22	553	2	690	957,801	3,007,885	3,965,68
New Brunswick								
Quebec	960	164	2,224	8	3.356	6,850,711	11,576,028	18, 426, 73
Ontario	2,634	924	3,494	25	7.077	22,533,964	18,549,712	41,083,67
Manitoba	201	165	348	_	714	1,582,655	1,691.988	3, 274, 64
Saskatchewan	286	59	790	2	1, 137	2,110,682	3,931,376	6,042,05
Alherta	610	143	1,429	10	2, 192	4,788,774	7,363,700	12, 152, 47
British Columbia	1		T -					
Northwest Territories	509	110	980	10	1,609	3,871,085	5,080,015	8,951,10

TABLE 3. Production and Related Workers1 (Wage-earners) in the Products of Petroleum and Coal Group, 1958 and 1959

Industry and province	January	Feb- ruary	March	April	May	June	July	August	Sept- ember	October	Nov- ember	Dec- ember
	number											
1958												
- 1 1		- 21	17.11									
By industries:	2, 045	2, 015	1, 984	2,009	1,967	1, 969	2,015	1,704	1,746	1,760	2,056	1,922
Petroleum products	8, 295	8, 234	8, 270	8, 375	8, 456	8, 531	8, 495	8, 355	8, 122	8, 046	7, 984	7, 964
Miscellaneous products of petro-	0, 233	0, 404	0,210	0,010	0, 100	0,001	0, 100	0,000	0, 200	0,020	.,	.,
leum and coal	216	206	229	281	311	327	326	351	360	372	306	268
Totals	10,556	10,455	10,483	10, 665	10, 734	10,827	10,836	10,410	10,228	10, 178	10,346	10, 154
By provinces:												
Newfoundland	1											
Nova Scotia	627	626	608	612	621	63 9	649	670	684	675	621	586
New Brunswick												
Quebec	2,473	2,433	2,403	2,428	2,412	2,438	2,422	2,419	2,371	2,385	2,386	2, 353
Ontario	3,795	3,728	3,776	3, 837	3,799	3, 799	3, 823	3,494	3,442	3,441	3,660	3, 585
Manitoba	348	350	348	352	377	429	412	376	369	361	357	355
Saskatchewan	822	826	825	862	907	902	901	860	83 0	840	833	820
Alberta	1,482	1,484	1,486	1,497	1,518	1,509	1,515	1,504	1, 487	1, 453	1,417	1,38
British Columbia	1,009	1,008	1, 035	1,077	1,100	1, 111	1,114	1,089	1,044	1, 023	1, 072	1,068
Northwest Territories	1,000	2,000	2,000	2,000	.,	.,						
Canada	10,556	10,455	10,483	10,665	10,734	10,827	10,836	10,410	10, 228	10, 178	10,346	10,154
1959												
By industries:											. 500	
Coke and gas	1, 614	1,650	1,684	1,725	1,840	1,822	1,835	1,814	1,814	1, 802	1,798	1,778
Petroleum products	7,718	7, 734	7,794	7, 784	7, 964	8,071	8, 061	8,002	7, 841	7,613	7, 580	7,603
Miscellaneous products of petro- leum and coal	210	201	217	228	267	277	278	301	307	272	234	21"
Totals	9,542	9, 585	9,695	9, 737	10, 071	10,170	10, 174	10,117	9, 962	9, 687	9,612	9, 598
By provinces:												
Newfoundland	7											
Nova Scotia	536	543	540	555	572	567	567	572	560	562	553	544
New Brunswick]											
Quebec	2, 224	2,244	2, 236	2, 226	2,247	2,266	2, 271	2, 247	2,200	2, 188	2,157	2, 13'
Ontario	3,305	3,334	3,414	3, 403	3, 643	3,656	3, 638	3,603	3, 583	3,470	3,478	3,50
Manitoba	323	321	326	328	342	359	391	378	379	338	319	313
Saskatchewan	770	768	773	781	828	821	832	817	805	764	753	75
Alberta	1,385	1,377	1,406	1, 438	1, 431	1,488	1, 465	1,497	1,453	1, 409	1,398	1,39
British Columbia] 000	00.0	1 000	1 000	1 000	1,013	1,010	1,003	982	956	954	952
Northwest Territories	999	998	1,000	1,006	1,008	1,013	1,010	1,003	002	550	001	004
Canada	9, 542	9,585	9,695	9, 737	10,071	10,170	10,174	10, 117	9, 962	9,687	9,612	9,59

¹ Small establishments were not asked to report details of employment.

Note: Data for 1958 are not strictly comparable with those for previous years since they relate only to establishments generally reporting value of factory shipments of \$100,000 and over. For the total average number of production workers (including estimate for small firms) see Table 2.

TABLE 4, Inventories1 in the Products of Petroleum and Coal Group, 1959

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
(a) By sub-groups				
Opening:	00.001.001		100 010 000	
Petroleum refining	38,764,221	17,757,312	100,846,028	157,367,56
Lubricating oils and greases	705, 369	1,675,759	776,540	3, 157, 66
Absorption gasoline	8,723	2,518	1,480,369	1,491,6
Coke and gas	18, 220, 894	149, 101	1,651,213	20,021,20
Miscellaneous products of petroleum and coal	960, 845	10,507	651,170	1,622,52
Totals	58, 660, 052	19,595,197	105, 405, 320	183, 660, 56
Closing:				
Petroleum refining	36, 180, 111	16,091,434	106, 499, 369	158, 770, 9
Lubricating oils and greases	636, 425	1,517,369	792, 784	2, 946, 5
Absorption gasoline	13, 121	1,720	1,560,482	1,575,3
Coke and gas	20,620,473	289,861	2,059,137	
Miscellaneous products of petroleum and coal	1,185,634	4,223	808,300	22, 969, 4 1, 998, 1
Totale	50 628 764	17 004 607	111 720 872	100 200 4
Totals	58, 635, 764	17, 904, 607	111, 720, 072	188, 260, 4
(b) Programma				
(b) By provinces				
Newfoundland				
Nova Scotia	2,895,196	803, 110	8,799,857	10, 498, 1
New Brunswick	2,030,130	003, 110	0, 188, 031	10, 130, 1
Quebec	18, 163, 504	4,389,224	31,890,259	54,442,9
Ontario	30, 128, 718	9, 518, 048	29, 529, 217	69,175,9
Manitoba	944, 121	384,242	5,838,857	7, 167, 2
Saskatchewan	1,741,742	1, 263, 068	8, 227, 443	11,232,2
Aiberta	1,960,580	1,372,715	11,233,933	14,567,2
British Columbia	1, 500, 500	1,312,113	11,200,500	12,001,2
Northwest Territories	} 2,826,191	1,864,790	11,885,754	16,576,7
Totals	58, 660, 052	19, 595, 197	105,405,320	183, 660, 5
North at				
losing:				
Newfoundland	2 041 205	050 001	4 000 242	7 17 C
Nova Scotta	2,241,325	850,981	4, 083, 343	7, 175, 6
New Brunswick	17 000 700	2 222 212	20 000 054	E2 000 0
Quebec	17,686,788	3,238,613	32,909,954	53,835,3
Ontario	31,081,616	8, 924, 478	31,554,464	71,560,5
Manitoba	939,502	530, 901	6,699,496	8,169,8
Saska tchewan	1,875,727	828, 894	9, 805, 757	12, 510, 3
Alberta	2,383,830	1,694,552	13,630,553	17,708,9
British Columbia	2,426,976	1,836,188	13,036,505	17, 299, 6
	58, 635, 764	17, 904, 607	111, 720, 072	188, 260, 4

⁽a) Book value of all manufacturing inventories owned and held at plant and plant warehouses.
(b) Beginning with 1954, Information on the value of year-end inventory holdings at plant and plant warehouses is being collected as part of the annual Census of Industry. These data were formerly collected by a separate survey. The summarized results for the Products of Petroleum and Coal Group for the year under review are shown in the above table.
(c) The opening inventory for the current year may not necessarily agree with the closing inventory published the previous year because of changes in the composition of the industry such as; the addition of new establishments, the disappearance of old ones, or the transfer of establishments to other industries for statistical purposes. The figure for value added by manufacture for the previous year does not need to be altered because of such changes in the composition of the industry.

TABLE 5. Materials Used in the Industries in the Products of Petroleum and Coal Group, 1958 and 1959

		19	58	1959		
Material		Quantity	Cost at plant	Quantity	Cost at plant	
			\$		\$	
Petroleum products industry:						
Crude oil (under 60° A.P.I.) in its natural state, from Canadia, wells		120 027 015	400 220 460	150 045 555	420 500 14	
Absorption gasoline, etc., from Canadian wells (run to stills)		132, 237, 015	409, 239, 469	150,045,555	438, 596, 14	
Crude oil, in its natural state, imported, (run to stills):	**	1,310,153	3,625,097	2,097,474	5,898,44	
From United States	20	1,177,216	4,533,852	_		
From South America		72, 124, 350	226,603,914	73, 329, 222	204,529,04	
From other countries Crude oil not in its natural state, imported		32,461,651	93, 792, 992	41,645,750	115,123,26	
Blending stocks for gasoline:		695,742	3,813,817	624,520	3,062,13	
Alkylate and cumene		124, 132	1,011,792	194,539	1,373,37	
Benzol		70,584	935,438	113,415	1,423,57	
Phenol	1b.	744,494	149.088	846,096	150,74	
Sulphuric acid, 100%		32,562,099	540,406	37,740,292	645,96	
Sulphur		450, 186	20,059	438,770	20, 23	
Caustic soda		16,835,315	676, 964	17, 153, 146	697,77	
Soda ash		1,593,533	55, 829	1,405,053	49,43	
Litharge		360, 197	50, 503	228,495	35, 38	
Fuller's earth, bentonite and other clays		2,356	145,940	1,178	70,29	
Compounding materials:		2,000	110,010	1,110	10,20	
Used in refineries		_	4,796,545		4,892,62	
Used in compounding plants		20, 622, 266	7, 171, 531	20, 238, 695	6,020,69	
Tetraethyl fluid		37,816,363	14,154,586	41,181,044	15,347,24	
Dyes for gasoline		* 4	112,615		99,42	
Inhibitor		p p	637,644		694,18	
Natural gas, wet		150,991,372	8,023,122	117, 339, 869	5,880,35	
Other materials	.	* 4 +	36,740,489		45,805,32	
			10 000 015		13,460,14	
Shipping containers Totals, petroleum products industry		• • •	13,088,617 829,920,509	. 4 4	863, 895, 81	
	. ton					
Totals, petroleum products industry oke and gas industry: Bituminous coai carbonized in ovens or retorts: (a) Canadian (b) Imported Bituminous coal for making water gas: (a) Canadian	ton	795,021 3,984,994	829, 920, 509 8, 415, 402 42, 665, 692	812,168 4,824,928	863, 895, 81 8,870, 95	
Totals, petroleum products industry oke and gas industry: Bituminous coai carbonized in ovens or retorts: (a) Canadian (b) Imported Bituminous coal for making water gas: (a) Canadian (b) Imported	ton	795,021	829, 920, 509 8, 415, 402	812,168 4,824,928	863, 895, 81 8,870, 95	
Totals, petroleum products industry oke and gas industry: Bituminous coal carbonized in ovens or retorts: (a) Canadian (b) Imported Bituminous coal for making water gas: (a) Canadian (b) Imported Coke for gas-making: (a) Purchased	ton	795,021 3,984,994 	829, 920, 509 8, 415, 402 42, 665, 692 	812,168 4,824,928	863, 895, 81 8,870, 95	
Totals, petroleum products industry oke and gas industry: Bituminous coai carbonized in ovens or retorts: (a) Canadian (b) Imported Bituminous coal for making water gas: (a) Canadian (b) Imported Coke for gas-making: (a) Purchased (b) Companies' own make	ton	795,021 3,984,994 	829, 920, 509 8,415,402 42,665,692 	812,168 4,824,928	863, 895, 81 8,870, 95	
Totals, petroleum products industry Dike and gas industry: Bituminous coal carbonized in ovens or retorts: (a) Canadian (b) Imported Bituminous coal for making water gas: (a) Canadian (b) Imported Coke for gas-making: (a) Purchased (b) Companies' own make Oil used for enriching water gas	ton ton	795,021 3,984,994 - 879 4,087 29,596 2,226,529	829, 920, 509 8,415,402 42,665,692 	812,168 4,824,928 - - - 806,916	8,870,95 51,105,12	
Totals, petroleum products industry Dike and gas industry: Bituminous coal carbonized in ovens or retorts: (a) Canadian (b) Imported Bituminous coal for making water gas: (a) Canadian (b) Imported Coke for gas-making: (a) Purchased (b) Companies' own make Oil used for enriching water gas Absorbing and wash oil	ton ton ton limp. gal.	795,021 3,984,994 	829, 920, 509 8,415,402 42,665,692 	812,168 4,824,928	8,870,95 51,105,12	
Totals, petroleum products industry Dike and gas industry: Bituminous coal carbonized in ovens or retorts: (a) Canadian (b) Imported Bituminous coal for making water gas: (a) Canadian (b) Imported Coke for gas-making: (a) Purchased (b) Companies' own make Oil used for enriching water gas Absorbing and wash oil Caustic soda	ton ton ton lmp. gal.	795,021 3,984,994 - 879 4,087 29,596 2,226,529	829, 920, 509 8,415,402 42,665,692 	812,168 4,824,928 - - - 806,916	8,870,95 51,105,12 70,51 53,55	
Totals, petroleum products industry Dike and gas industry: Bituminous coal carbonized in ovens or retorts: (a) Canadian (b) Imported Bituminous coal for making water gas: (a) Canadian (b) Imported Coke for gas-making: (a) Purchased (b) Companies' own make Oil used for enriching water gas Absorbing and wash oil Caustic soda Lime	ton ton ton lmp. gal. ton	795,021 3,984,994 879 4,087 29,596 2,226,529 286,978	829, 920, 509 8,415,402 42,665,692 	812,168 4,824,928 — — — 806,916 216,423	8,870,95 51,105,12 70,51 53,55 115,81 3,95	
Totals, petroleum products industry oke and gas industry: Bituminous coai carbonized in ovens or retorts: (a) Canadian (b) Imported Bituminous coal for making water gas: (a) Canadian (b) Imported Coke for gas-making: (a) Purchased (b) Companies' own make Oil used for enriching water gas Absorbing and wash oil Caustic soda Lime Water	ton ton ton lmp. gal. ton	795,021 3,984,994 	829, 920, 509 8,415,402 42,665,692 	812,168 4,824,928 - - 806,916 216,423 3,057,501 223	8,870,95 51,105,12 70,51 53,55 115,81 3,95	
Totals, petroleum products industry oke and gas industry: Bituminous coal carbonized in ovens or retorts: (a) Canadian (b) Imported Bituminous coal for making water gas: (a) Canadian (b) Imported Coke for gas-making: (a) Purchased (b) Companies' own make Oil used for enriching water gas Absorbing and wash oil Caustic soda Lime Water Iron oxide	ton ton ton lmp. gal. ton ton ton	795,021 3,984,994 879 4,087 29,596 2,226,529 286,978 2,198,246 363	829, 920, 509 8,415,402 42,665,692 	812,168 4,824,928 - - 806,916 216,423 3,057,501 223	863, 895, 81 8,870, 95	
Totals, petroleum products industry oke and gas industry: Bituminous coal carbonized in ovens or retorts: (a) Canadian (b) Imported Bituminous coal for making water gas: (a) Canadian (b) Imported Coke for gas-making: (a) Purchased (b) Companies' own make Oil used for enriching water gas Absorbing and wash oil Caustic soda Lime Water Iron oxide Sulphuric acid, 100%	ton ton ton lmp. gal. ton ton ton	795,021 3,984,994 	829, 920, 509 8,415,402 42,665,692 	812,168 4,824,928 - - 806,916 216,423 3,057,501 223	8,870,95 51,105,12 70,51 53,55 115,81 3,95 94,22 1,21	
Totals, petroleum products industry oke and gas industry: Bituminous coal carbonized in ovens or retorts: (a) Canadian (b) Imported Bituminous coal for making water gas: (a) Canadian (b) Imported Coke for gas-making: (a) Purchased (b) Companies' own make Oil used for enriching water gas Absorbing and wash oil Caustic soda Lime Water Iron oxide Sulphuric acid, 100% Propane and butane	ton ton lmp. gal. ton ton ton ton ton ton lb. ton	795,021 3,984,994 	829, 920, 509 8,415,402 42,665,692 11,268 89,153 621,516 253,021 72,414 67,648 4,730 70,946 2,446	812,168 4,824,928 - - 806,916 216,423 3,057,501 223 	8,870,95 51,105,12 70,51 53,55 115,81 3,95 94,22 1,21 693,98	
Totals, petroleum products industry Dike and gas industry: Bituminous coai carbonized in ovens or retorts: (a) Canadian (b) Imported Bituminous coal for making water gas: (a) Canadian (b) Imported Coke for gas-making: (a) Purchased (b) Companies' own make Oil used for enriching water gas Absorbing and wash oil Caustic soda Lime Water Iron oxide Sulphuric acid, 100% Propane and butane	ton ton lmp. gal. ton ton ton ton ton ton lb. ton	795,021 3,984,994 - 879 4,087 29,596 2,226,529 286,978 2,198,246 363 237 54,217,967	829, 920, 509 8,415,402 42,665,692 11,268 89,153 621,516 253,021 72,414 67,648 4,730 70,946 2,446 719,793	812,168 4,824,928 - - 806,916 216,423 3,057,501 223 100 52,206,883	863, 895, 81 8,870, 95 51, 105, 12 70, 51 53, 55 115, 81 3, 95 94, 22 1, 21 693, 98 597, 17	
Totals, petroleum products industry oke and gas industry: Bituminous coai carbonized in ovens or retorts: (a) Canadian (b) Imported Bituminous coal for making water gas: (a) Canadian (b) Imported Coke for gas-making: (a) Purchased (b) Companies' own make Oil used for enriching water gas Absorbing and wash oil Caustic soda Lime Water Iron oxide Sulphuric acid, 100%	ton ton in lmp. gal. ton ton ton ton ton lb. ton lb. Imp. gal.	795,021 3,984,994	829, 920, 509 8,415,402 42,665,692 11,268 89,153 621,516 253,021 72,414 67,648 4,730 70,946 2,446 719,793 760,725	812,168 4,824,928 - - 806,916 216,423 3,057,501 223 100 52,206,883 5,138,348	8,870,95 51,105,12 70,51 53,55 115,81 3,95 94,22 1,21 693,98 597,17 2,853,81	
Totals, petroleum products industry oke and gas industry: Bituminous coal carbonized in ovens or retorts: (a) Canadian (b) Imported Bituminous coal for making water gas: (a) Canadian (b) Imported Coke for gas-making: (a) Purchased (b) Companies' own make Oil used for enriching water gas Absorbing and wash oil Caustic soda Lime Water Iron oxide Sulphuric acid, 100% Propane and butane All other materials Totals, coke and gas industry	ton ton in lmp. gal. ton ton ton ton ton lb. ton lb. Imp. gal.	795,02i 3,984,994 	829, 920, 509 8,415,402 42,665,692 11,268 89,153 621,516 253,021 72,414 67,648 4,730 70,946 2,446 719,793 760,725 2,517,450	812,168 4,824,928 4,824,928 — — 806,916 216,423 3,057,501 223 100 52,206,883 5,138,348	8,870,95 51,105,12 70,51 53,55 115,81 3,95 94,22 1,21 693,98 597,17 2,853,81	
Totals, petroleum products industry Dake and gas industry: Bituminous coal carbonized in ovens or retorts: (a) Canadian (b) Imported Bituminous coal for making water gas: (a) Canadian (b) Imported Coke for gas-making: (a) Purchased (b) Companies' own make Oil used for enriching water gas Absorbing and wash oil Caustic soda Lime Water Iron oxide Sulphuric acid, 100% Propane and butane All other materials Totals, coke and gas industry scellaneous products of petroleum and coal industry:	ton ton lmp. gal. ton ton ton ton ton ton lb. ton	795,021 3,984,994 879 4,087 29,596 2,226,529 286,978 2,198,246 363 237 54,217,967 6,099,452	829, 920, 509 8, 415, 402 42, 665, 692 11, 268 89, 153 621, 516 253, 021 72, 414 67, 648 4, 730 70, 946 2, 446 719, 793 760, 725 2, 517, 450 56, 272, 204	812,168 4,824,928 4,824,928 ————————————————————————————————————	8,870,95 51,105,12 70,51 53,55 115,81 3,95 94,22 1,21 693,98 597,17 2,853,81 64,460,33	
Totals, petroleum products industry Dake and gas industry: Bituminous coal carbonized in ovens or retorts: (a) Canadian (b) Imported Bituminous coal for making water gas: (a) Canadian (b) Imported Coke for gas-making: (a) Purchased (b) Companies' own make Oil used for enriching water gas Absorbing and wash oil Caustic soda Lime Water Iron oxide Sulphuric acid, 100% Propane and butane All other materials Totals, coke and gas industry scellaneous products of petroleum and coal industry: Asphalt	ton ton imp. gal. lb. ton ton lb. Imp. gal.	795,02i 3,984,994 879 4,087 29,596 2,226,529 286,978 2,198,246 363 237 54,217,967 6,099,455	829, 920, 509 8, 415, 402 42, 665, 692 11, 268 89, 153 621, 516 253, 021 72, 414 67, 648 4, 730 70, 946 2, 446 719, 793 760, 725 2, 517, 450 56, 272, 204	812,168 4,824,928 4,824,928 ————————————————————————————————————	863, 895, 81 8,870, 95 51, 105, 12 70, 51 53, 55 115, 81 3, 95 94, 22 1, 21 693, 98 597, 17 2, 853, 81 64, 460, 33	
Totals, petroleum products industry oke and gas industry: Bituminous coal carbonized in ovens or retorts: (a) Canadian (b) Imported Bituminous coal for making water gas: (a) Canadian (b) Imported Coke for gas-making: (a) Purchased (b) Companies' own make Oil used for enriching water gas Absorbing and wash oil Caustic soda Lime Water Iron oxide Sulphuric acid, 100% Propane and butane All other materials Totals, coke and gas industry scellaneous products of petroleum and coal industry: Asphalt Coal, bituminous	ton ton imp. gal. ton ton lb. ton gal. gal. ton	795,02i 3,984,994 	829, 920, 509 8, 415, 402 42, 665, 692 11, 268 89, 153 621, 516 253, 021 72, 414 67, 648 4, 730 70, 946 2, 446 719, 793 760, 725 2, 517, 450 56, 272, 204 3, 091, 971 1, 014, 289	812,168 4,824,928 806,916 216,423 3,057,501 223 100 52,206,883 5,138,348 17,742,699 111,085	863, 895, 81 8,870, 95 51, 105, 12 70, 51 53, 55 115, 81 3, 95 94, 22 1, 21 693, 98 597, 17 2, 853, 81 64, 460, 33	
Totals, petroleum products industry Dike and gas industry: Bituminous coal carbonized in ovens or retorts: (a) Canadian (b) Imported Bituminous coal for making water gas: (a) Canadian (b) Imported Coke for gas-making: (a) Purchased (b) Companies' own make Oil used for enriching water gas Absorbing and wash oil Caustic soda Lime Water Sulphuric acid, 100% Propane and butane All other materials Totals, coke and gas industry scellaneous products of petroleum and coal industry: Asphalt Coal, bituminous Coal, lignite	ton ton ton lmp. gal. ton ton lb. ton gal. ton gal.	795,02i 3,984,994 879 4,087 29,596 2,226,529 286,978 2,198,246 363 237 54,217,967 6,099,452 20,690,455 151,331 84,694	829, 920, 509 8, 415, 402 42, 665, 692 11, 268 89, 153 621, 516 253, 021 72, 414 67, 648 4, 730 70, 946 2, 446 719, 793 760, 725 2, 517, 450 56, 272, 204 3, 091, 971 1, 014, 289 169, 366	812,168 4,824,928 806,916 216,423 3,057,501 223 100 52,206,883 5,138,348 17,742,699 111,085 83,070	863, 895, 81 8,870, 95 51, 105, 12 70, 51 53, 55 115, 81 3, 95 94, 22 1, 21 693, 98 597, 17 2, 853, 81 64, 460, 33 2, 516, 32 719, 84	
Totals, petroleum products industry Dike and gas industry: Bituminous coal carbonized in ovens or retorts: (a) Canadian (b) Imported Bituminous coal for making water gas: (a) Canadian (b) Imported Coke for gas-making: (a) Purchased (b) Companies' own make Oil used for enriching water gas Absorbing and wash oil Caustic soda Lime Water Iron oxide Soulphuric acid, 100% Propane and butane All other materials Totals, coke and gas industry scellaneous products of petroleum and coal industry: Asphalt Coal, bituminous Coal, lignite Pitch	ton ton ton ton lmp. gal. ton ton lb. ton gal. ton gal. ton "" 1b.	795,02i 3,984,994 4,087 29,596 2,226,529 286,978 2,198,246 363 237 54,217,967 6,099,452 	829, 920, 509 8, 415, 402 42, 665, 692 11, 268 89, 153 621, 516 253, 021 72, 414 67, 648 4, 730 70, 946 2, 446 719, 793 760, 725 2, 517, 450 56, 272, 204 3, 091, 971 1, 014, 289 169, 366	812,168 4,824,928 806,916 216,423 3,057,501 223 100 52,206,883 5,138,348 17,742,699 111,085 83,070	863, 895, 81 8,870, 95 51, 105, 12 70, 51 53, 55 115, 81 3, 95 94, 22 1, 21 693, 88 597, 17 2, 853, 81 64, 460, 33 2, 516, 32 719, 84 179, 73	
Totals, petroleum products industry Dike and gas industry: Bituminous coal carbonized in ovens or retorts: (a) Canadian (b) Imported Bituminous coal for making water gas: (a) Canadian (b) Imported Coke for gas-making: (a) Purchased (b) Companies' own make Oil used for enriching water gas Absorbing and wash oil Caustic soda Lime Water Iron oxide Sulphuric acid, 100% Propane and butane All other materials Totals, coke and gas industry scellaneous products of petroleum and coal industry: Asphalt Coal, bituminous Coal, lignite Pitch Resin	ton ton ton ton ton b. ton ton ton ton ton ton ton to	795,02i 3,984,994 879 4,087 29,596 2,226,529 286,978 2,198,246 363 237 54,217,967 6,099,452 20,690,455 151,331 84,694	829, 920, 509 8, 415, 402 42, 665, 692 11, 268 89, 153 621, 516 253, 021 72, 414 67, 648 4, 730 70, 946 2, 446 719, 793 760, 725 2, 517, 450 56, 272, 204 3, 091, 971 1, 014, 289 169, 366 6, 307	812,168 4,824,928	863, 895, 81 8,870, 95 51, 105, 12 70, 51 53, 55 115, 81 3, 95 94, 22 1, 21 693, 88 597, 17 2, 853, 81 64, 460, 33 2, 516, 32 719, 84 179, 73 259, 68	
Totals, petroleum products industry Dike and gas industry: Bituminous coal carbonized in ovens or retorts: (a) Canadian (b) Imported Bituminous coal for making water gas: (a) Canadian (b) Imported Coke for gas-making: (a) Purchased (b) Companies' own make Oil used for enriching water gas Absorbing and wash oil Caustic soda Lime Water Water Sulphuric acid, 100% Propane and butane All other materials Totals, coke and gas industry scellaneous products of petroleum and coal industry: Asphalt Coal, bituminous Coal, lignite Pitch Resin All other materials	ton ton ton lmp. gal. ton ton lb. ton ton lb. ton lb. imp. gal.	795,02i 3,984,994 4,087 29,596 2,226,529 286,978 2,198,246 363 237 54,217,967 6,099,452 20,690,455 151,331 84,694	829, 920, 509 8, 415, 402 42, 665, 692 11, 268 89, 153 621, 516 253, 021 72, 414 67, 648 4, 730 70, 946 2, 446 719, 793 760, 725 2, 517, 450 56, 272, 204 3, 091, 971 1, 014, 289 169, 366 6, 307 3, 574, 811	812,168 4,824,928	863, 895, 81 8,870, 95 51, 105, 12 70, 51 53, 55 115, 81 3, 95 94, 22 1, 21 693, 88 597, 17 2, 853, 81 64, 460, 33 2, 516, 32 719, 84 179, 73 259, 68 3,757, 29	
Totals, petroleum products industry oke and gas industry: Bituminous coal carbonized in ovens or retorts: (a) Canadian (b) Imported Bituminous coal for making water gas: (a) Canadian (b) Imported Coke for gas-making: (a) Purchased (b) Companies' own make Oil used for enriching water gas Absorbing and wash oil Caustic soda Lime Water Iron oxide Sulphuric acid, 100% Propane and butane All other materials Totals, coke and gas industry scellaneous products of petroleum and coal industry: Asphalt Coal, bituminous Coal, lignite Pitch Resin All other materials Shipping containers	ton ton ton imp. gal. ton ton lb. ton gal. ton imp. gal.	795,02i 3,984,994 879 4,087 29,596 2,226,529 286,978 2,198,246 363 237 54,217,967 6,099,452 20,690,455 151,331 84,694	829, 920, 509 8, 415, 402 42, 665, 692 11, 268 89, 153 621, 516 253, 021 72, 414 67, 648 4, 730 70, 946 2, 446 719, 793 760, 725 2, 517, 450 56, 272, 204 3, 091, 971 1, 014, 289 169, 366 6, 307 3, 574, 811 406, 034	812,168 4,824,928	863, 895, 81 8,870, 95 51, 105, 12 70, 51 53, 55 115, 81 3, 95 94, 22 1, 21 693, 98 597, 17 2, 853, 81 64, 460, 33	
Totals, petroleum products industry oke and gas industry: Bituminous coal carbonized in ovens or retorts: (a) Canadian (b) Imported Bituminous coal for making water gas: (a) Canadian (b) Imported Coke for gas-making: (a) Purchased (b) Companies' own make Oil used for enriching water gas Absorbing and wash oil Caustic soda Lime Water Iron oxide Sulphuric acid, 100% Propane and butane All other materials Totals, coke and gas industry scellaneous products of petroleum and coal industry: Asphalt Coal, bituminous Coal, lignite Pitch Resin	ton ton ton imp. gal. ton ton lb. ton gal. ton imp. gal.	795,02i 3,984,994 4,087 29,596 2,226,529 286,978 2,198,246 363 237 54,217,967 6,099,452 20,690,455 151,331 84,694	829, 920, 509 8, 415, 402 42, 665, 692 11, 268 89, 153 621, 516 253, 021 72, 414 67, 648 4, 730 70, 946 2, 446 719, 793 760, 725 2, 517, 450 56, 272, 204 3, 091, 971 1, 014, 289 169, 366 6, 307 3, 574, 811	812,168 4,824,928	863, 895, 81 8,870, 95 51, 105, 12 70, 51 53, 55 115, 81 3, 95 94, 22 1, 21 693, 88 597, 17 2, 853, 81 64, 460, 33 2, 516, 32 719, 84 179, 73 259, 68 3,757, 29	

FABLE 6. Products Made in the Industries in the Products of Petroleum and Coal Group, 1958 and 1959

		195	58	1959		
Product		Quantity	Gross selling value at plant	Quantity	Gross selling	
			\$		\$	
	{					
ade for sale: Gasoline (excluding imported casinghead blended):						
Aviation gasoline Motor gasoline	44	675, 867 89, 310, 044	9, 006, 451 619, 266, 830	677, 959 95, 499, 076	5, 994, 49 498, 706, 01	
Natural gasoline	4.	1, 321, 153 924, 424	3, 810, 619 7, 667, 758	1,814,579	4, 868, 25 4, 261, 56	
Naphtha specialties Aviation turbine fuel		4,302,097	26, 883, 696	4, 277, 429	17, 028, 24	
Kerosene, stove oil (No. 1 fuel oil) and tractor fuel	********	12, 058, 840 23, 264, 089	71,948,232 117,699,331	13, 904, 661 27, 482, 962	60, 668, 24 111, 697, 94	
Light fuel oils (Nos. 2 and 3)	44	41,619,213 34,374,486	211, 642, 223 93, 707, 646	48, 318, 017 36, 786, 243	200, 095, 28 83, 609, 89	
Heavy fuel olls (Nos. 4, 5 and 6) Lubricating oil and grease:						
Made in refineries Made in blending plants	14	1,887,969 563,577	48, 762, 845 17, 546, 259	2, 024, 847 443, 125	26, 213, 33 17, 776, 05	
Asphalt		9, 161, 825 176, 860	43, 410, 446 2, 121, 668	9,098,825 196,258	29,687,35 1,775,27	
Petroleum coke Liquefied petroleum gases	bbl.	5, 164, 805	15, 814, 055	2, 998, 104	9, 228, 17	
Other products	******		38, 174, 207	4 + 4	43, 515, 85	
Totals, made for sale	.1.1999#4	g 0 0	1, 327, 462, 266	p 0 4	1, 115, 125, 98	
ade for own use:	bbl.	19,060	138,033	19, 930	123.30	
Gasoline Naphtha specialties	4.6	2,014	17, 159	2, 204	16,32	
Kerosene and stove oil (No. 1 fuel oil)	E4	542 13, 367	3,345 76,586	2, 630 150, 443	11,50 503,36	
Light fuel oils (Nos. 2 and 3)	11	21, 189 7, 504, 317	83, 268 19, 445, 938	15, 298 9, 013, 518	77, 8	
Heavy fuel oils (Nos. 4, 5 and 6) Lubricating oil and grease ¹		3,403	14,992	3, 545	44, 7	
Asphalt Petroleum coke	*********	8, 013 285, 937	40, 121 3, 516, 356	5, 228 333, 322	17,7 3,235,8	
Still gas Other products	M cu. ft.	39, 397, 753	17, 070, 303 780, 720	38, 199, 166	16, 683, 2	
Totals, made for own use		* * *	41, 186, 821	* 1 *	41, 786, 05	
Totals, petroleum products industry	*********		1, 368, 649, 087	* * *	1, 156, 912, 04	
oke and gas industry: Gas sold of used:						
Gas sold	M cu. ft.	4,674,187	6, 548, 904	2,485,402	2,601.09	
Gas used in own coke or gas plants Gas used in associated works	***	12,607,586 28,913,734	3, 935, 892 7, 420, 216	17, 210, 689 37, 129, 087	5, 536, 0 9, 687, 0	
Gas otherwise accounted for but not sold		2,734,841 2,166,867	1,746,867	2, 988, 727 2, 330, 180	1,148,0	
		51.097.215		62, 144, 085		
Totals, gas sold or used	********	31,097,215	20, 271, 672	04, 144, 080	19, 653, 10	
Coke made:	4	0 100 1503	F1 F00 000	4 005 000	64, 027, 4	
Coke from by-product or bee-hive ovens Coke from gas retorts		3, 429, 473° 53, 632°	51, 590, 069 1, 051, 890	4, 035, 033 54, 800	1, 121, 1	
Totals, coke	24	3, 483, 105	52, 641, 959	4, 089, 833	65, 148, 5	
Other products:			4 701 000	4. 401 400	5 450 0	
Tar Ammonium syiphate		35, 869, 842 58, 765, 127	4, 761, 263 937, 608	41, 181, 423 56, 053, 941	5, 452, 9 927, 9	
Benzoi Toiuol, xylol and naphthalene		6, 916, 172 2, 430, 467	2, 739, 956 808, 365	8, 819, 676 2, 735, 477	3, 172, 7	
All other products			627, 867	***	1, 214, 6	
Totals, coke and gas industry			82,788,690		96, 410, 6	
scelianeous products of petroleum and coal industry;						
Asphalt road emulsions		21, 182, 714	4, 472, 482 2, 270, 362	18, 920, 800 3, 376, 814	3,595,5 1,421,1	
Protective coatings Paving materials	ton	4,928,887	2, 395, 302	389, 891	2, 392, 9	
All other products	100,000	4 4 4	5, 833, 438	* * *	7, 275, 1	
Totals, miscellaneous industry	101111111111111111111111111111111111111	* * *	14, 971, 584		14, 684, 7	
Total for group			1, 466, 409, 361		1, 268, 007, 4	

¹ Grease at 10 lbs. to a gallon. ² Includes breeze,

Note: See footnote to Table 1 for explanation of change in basis of valuation.

TABLE 7. Fuel and Electricity Used¹ in the Manufacture of Products of Petroleum and Coal in Canada, by Industries and by Provinces, 1959

	by Industries	s and by Pr	ovinces, 19	959			
		Bitumino	ous coal	Sub-			Gasoline
No.		From Canadian mines	Imported	bituminous from Alberta mines	Lignite coai	Coke (for fuel only)	(including gasoline used in cars and trucks)
2100				tons			Imp. gal.
	(a) By industries						
	Petroleum refining:						
1	Quantity	5	_	_		360, 121	860,601
2	Cost	122	_	_	_	3,476,652	170,578
	Lubricating olls and greases:						
3	Quantity	_	_	_			10,820
4	Cost	_	_	_	_	_	4,045
	Absorption gasoline:						
5	Quantity		_	_	_	_	4,259
6	Cost		_	_	-	_	1,642
	Coke and gas:						
7	Quantity	11,470	1.474	-	_	5,468	338,920
8	Cost	125,692	12,516	-	-	41,598	105,629
	Miscellaneous:						
9	Quantity	13	215	1,295	_	-	31,149
10	Cost	555	3,003	9,065	-	_	11.541
	(b) By provinces						
	Newfoundland, Nova Scotia and New Brunswick:						
11	Quantity	11,410	-	_	-	59,882	31,986
12	Cost \$	125,308	_	-	-	643,294	6,479
13	Quantity	-	2.4				
14	Cost	78	215	-	_	48,918	568,415
14	Ontario:	1,061	3,003	_		509,837	145,601
15	Quantity		1 454			120 540	202 254
16	Cost		1,474	_	_	138.548	292,254 63,307
10	Manitoba:		12,510	_		1.505,195	03,301
17	Quantity	_	_		_	26,797	137,460
18	Cost	_	_	_	_	240,000	28,478
	Saskatchewan:					200,000	
19	Quantity	_	_	-	_	25,086	41,473
20	Cost\$	_	_	_	_	161, 399	12,210
	Alberta:						
21	Quantity	_	_	1,295	_	46,426	59,051
22	Cost	_	-	9,065		195.837	10,641
	British Columbia and Northwest Territories:						
23	Quantity	-	-	_	_	19,932	115,110
24	Cost\$	- "	_	_	- 1	202,688	26,719

Data in this table relate only to establishments generally reporting value of factory shipments of \$100,000 and over. For total value of fuel and electricity used (including estimates for small firms) see Table 1.

TABLE 7. Fuel and Electricity Used¹ in the Manufacture of Products of Petroleum and Coal in Canada, by Industries and by Provinces, 1959

	Electricity	Gas Electricity			Think all			
Steam purchased	ctured Natural Purchased		nufsectured Natural fuel Purchased		manufactured	Liquefied petroleum gases (pro- pane, etc.)	Fuel oil not including lubricating oil)	
\$	kwh.		ft.	M cu.	al.	Imp. g.		
• •	1,022,482,136	_	10,706,583	39, 359, 363	46.874.636	322, 426, 129		
29.970	7,133,181	-	1,665,577	15,226,687	3,531,927	19,664,240		
4.0	3,120,976	ma.	69	1,431		1,113,818		
785	34.727	man	128	1,793		94,527		
	25,775,622	***	3.789,316	_	1,863,159	3,405		
61,112	362.079	493	363,868	_	128,579	835		
-	63,647,651		145, 450	16,398,028	-	1,339,113		
-	469.741	16,043	75,634	4,639,134	-	118,556		
4 4	6,138,192		102,077	-	2,472	655,695		
14,929	77,740	105	56, 302	-	587	86,861		
	41,344,556	-	720	7,146,715	429,002	10,670,682		
-	374,861	ama	720	2,532,960	28,111	487,352		
	331,908,749	* * *	145,519	10,600,908	31,966,725	130,078,505		
785	1,583,868	16,148	75,762	3,622,475	1,998,990	7,777,190		
	374,908,204	-	138,820	21,713,060	6,548,222	115, 366, 400		
-	2,508,580	-	82,406	8,590,079	1,310,098	8,253.027		
-	59,741,544	-	_	1.478.455	_	18,426,164		
-	401,873	-	and a	688,528	-	896.055		
• •	73,642,685	-	1,551,927	3,425,448	3,707,300	19,547,408		
44,899	993,567	_	161,478	996,326	103,654	879, 285		
	100,404,174	* * *	12,280,664	5, 166, 087	3, 482, 258	11,053,752		
61, 112	950,813	493	1,656,775	1,031,125	158,157	378,382		
	139, 214, 665	-	625.845	6,228,149	2,606,760	20,395,249		
_	1, 263, 906	-	184,368	2,426,121	62,083	1,293,728		

TABLE 8. Capital and Repair Expenditures in the Products of Petroleum and Coal Group by Industries, 1959

		55 1110 454		,								
	Capital ex	penditures	Sub-total	Repair ex	penditures	Sub-total	Total capital and repair expenditures					
Industry	Construction	Machinery		Construction	Machinery							
4-6-4	thousands of dollars											
Coke and gas	203	428	631	684	2,008	2,692	3, 323					
Petroleum products	108, 214	11, 394	119,608	25,902	3,910	29, 812	149, 420					
Miscellaneous products of petroleum and coal	918	735	1,653	1	1	385	2,038					
Totals	109, 335	12, 557	121, 892	26, 665	6, 224	32, 889	154, 781					

¹ Included under sub-total.

Note: The above are final figures and may differ slightly from the preliminary figures shown in the individual industry reports.



