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ANNUAL



PETROLEUM REFINERIES

1965

CONSISTING OF:

1. Petroleum Refineries
2. Petroleum Refining
3. Manufacturers of Lubricating Oils and Greases

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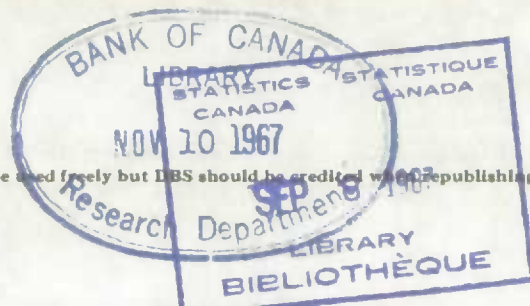
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A - Annual

O - Occasional

M - Monthly

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PETROLEUM REFINERIES

1965

SECTION 1. PETROLEUM REFINERIES, 1965

For statistical purposes, the industry titled Petroleum Refineries in the revised Standard Industrial Classification covers establishments primarily engaged in refining crude petroleum and in producing fuel oils, lubricating oils, illuminating oils and other petroleum products. The industry also includes establishments primarily engaged in blending lubricating oils and greases which they have purchased.

It should be noted that for purposes of presentation of statistics in this report recognition is being given to Petroleum Refining and to Manufacturers of Lubricating Oils and Greases as sub-classifications within this industry group. The former industry includes establishments primarily engaged in refining crude petroleum while the latter includes establishments primarily engaged in blending lubricating oils and greases which they have purchased.

Value of shipments and other revenue (manufacturing and non-manufacturing) of the Petroleum Refineries industry amounted to \$1,485 millions in 1965, compared with \$1,450 millions in 1964, an increase of \$35 millions or about 2.6 per cent. Included in this total were shipments by the Petroleum Refining industry valued at \$1,384 millions and shipments by Manufacturers of Lubricating Oils and Greases at \$31 millions. Other revenue (non-manufacturing) accounted for \$70 millions.

The cost of materials and supplies, fuel and electricity etc. (inputs), used in the production of goods of own manufacture, increased by \$45 millions. Cost of inputs in 1965 represented 81.5 per cent of value of shipments of own manufacture (outputs), compared to 79 per cent in 1964.

Note: Petroleum Refineries covered in the tables in Section 1 include the operations of two sub-classifications of industries (a) Petroleum Refining (see Section 2) which includes establishments primarily engaged in refining crude petroleum and (b) Manufacturers of Lubricating Oils and Greases (see Section 3) which includes establishments primarily engaged in blending lubricating oils and greases.

SYMBOLS

The following standard symbols are used in Dominion Bureau of Statistics publications:

- .. figures not available.
- ... figures not appropriate or not applicable.
- nil or zero.
- amount too small to be expressed.
- p preliminary figures.
- r revised figures.
- x confidential to meet secrecy requirements of the Statistics Act.

TABLE 1. Principal Statistics, 1961-65

Year and province	Establishments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and electricity	Cost of materials and supplies	Value of shipments of goods of own manufacture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
No.		'000			\$'000				\$'000			\$'000	
1961													
Totals	57	7,406	15,844	41,527	10,968	911,693	1,200,612	280,726	x	x	10,991	64,768	281,989
1962													
Totals	58	7,124	15,385	41,918	10,444	994,007	1,274,266	273,509	x	x	10,535	64,593	276,429
1963													
Totals	55	6,905	14,930	41,752	10,882	1,069,805	1,344,872	274,824	-	-	10,088	63,692	278,526
1964													
Newfoundland	1	x	x	x	x	x	x	x	-	-	x	x	x
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	2	x	x	x	x	x	x	x	-	-	x	x	x
New Brunswick	1	x	x	x	x	x	x	x	-	-	x	x	x
Quebec	8	1,718	3,722	11,328	2,767	319,120	394,876	71,873	-	-	2,506	17,285	72,308
Ontario	16	2,105	4,610	13,465	3,536	375,494	474,909	90,057	-	-	3,105	21,009	90,311
Manitoba	4	330	713	1,962	528	44,265	58,211	14,210	-	-	770	3,930	14,648
Saskatchewan	6	582	1,219	3,450	886	60,365	77,292	15,595	-	-	787	4,970	15,900
Alberta	9	740	1,594	4,707	1,923	93,351	124,576	28,139	-	-	1,035	7,047	28,542
British Columbia	8	665	1,425	4,199	1,453	102,248	127,529	24,577	-	-	943	6,327	25,684
Yukon and Northwest Territories	1	x	x	x	x	x	x	x	-	-	x	x	x
Totals	56	6,730	14,696	42,896	12,102	1,102,900	1,396,531	276,114	-	-	9,920	65,918	280,991
1965													
Newfoundland	1	x	x	x	x	x	x	x	-	-	x	x	x
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	2	x	x	x	x	x	x	x	-	-	x	x	x
New Brunswick	1	x	x	x	x	x	x	x	-	-	x	x	x
Quebec	8	1,657	3,619	11,278	2,360	309,557	379,108	64,676	-	-	2,454	17,449	65,932
Ontario	17	2,103	4,445	13,472	3,629	415,689	503,473	86,709	-	-	3,093	22,292	87,317
Manitoba	4	280	588	1,748	582	46,758	55,222	9,392	-	-	412	2,818	8,932
Saskatchewan	6	559	1,062	3,073	827	65,358	83,513	17,423	-	-	765	4,842	17,472
Alberta	9	718	1,567	4,741	2,042	103,299	135,500	30,707	-	-	1,019	7,093	30,877
British Columbia	8	633	1,254	3,849	1,475	101,756	125,742	22,918	-	-	889	5,988	23,783
Yukon and Northwest Territories	1	x	x	x	x	x	x	x	-	-	x	x	x
Totals	57	6,511	13,816	41,859	12,115	1,147,779	1,414,915	257,587	-	-	9,384	65,684	263,430

TABLE 2. Principal Statistics classified by Size Group based on Value of Shipments of Goods of Own Manufacture, 1964 and 1965

Size group	Estab-lish-ments	Manufacturing activity						Total activity					
		Production and related workers			Cost of fuel and elec-tricity	Cost of materials and supplies	Value of shipments of goods of own manu-facture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
	No.		'000			'000			'000		'000		
1964													
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-	-	
\$ 10,000 to \$ 24,999	3	7	14	24	2	23	81	56	-	-	10	35	
25,000 "	3	13	25	58	6	146	333	210	-	-	32	183	
50,000 "	3	15	33	75	23	562	1,015	374	-	-	49	262	
100,000 "	4	38	82	190	26	1,596	2,759	893	-	-	95	482	
200,000 "	5	183	424	986	354	8,479	11,843	3,228	-	-	261	1,400	
500,000 "	38	6,474	14,118	41,563	11,692	109,209	1,380,501	271,354	-	-	9,473	63,556	
1,000,000 "	5	183	424	986	354	8,479	11,843	3,228	-	-	261	1,400	
5,000,000 and over	38	6,474	14,118	41,563	11,692	109,209	1,380,501	271,354	-	-	9,473	63,556	
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...
Totals	56	6,730	14,696	42,896	12,102	1,102,900	1,396,531	276,114	-	-	9,920	65,918	
1965													
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-	-	
\$ 10,000 to \$ 24,999	3	5	10	16	2	12	75	62	-	-	9	32	
25,000 "	3	12	23	49	11	130	322	209	-	-	28	140	
50,000 "	3	12	23	49	11	130	322	209	-	-	28	140	
100,000 "	5	22	46	109	29	1,183	1,038	1,038	-	-	70	405	
200,000 "	8	255	559	1,386	413	14,054	18,464	4,095	-	-	393	2,248	
500,000 "	38	6,217	13,178	40,299	11,662	1,132,401	1,393,819	252,182	-	-	8,884	62,860	
1,000,000 "	38	6,217	13,178	40,299	11,662	1,132,401	1,393,819	252,182	-	-	8,884	62,860	
5,000,000 and over	38	6,217	13,178	40,299	11,662	1,132,401	1,393,819	252,182	-	-	8,884	62,860	
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...
Totals	57	6,511	13,816	41,859	12,115	1,147,779	1,414,915	257,587	-	-	9,384	65,684	

TABLE 3. Principal Statistics classified by Size Group based on Manufacturing Value Added, 1964 and 1965

Size group	Estab-lish-ments	Manufacturing activity						Total activity					
		Production and related workers			Cost of fuel and elec-tricity	Cost of materials and supplies	Value of shipments of goods of own manu-facture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
	No.		'000			'000			'000		'000		
1964													
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-	-	
\$ 10,000 to \$ 24,999	4	8	16	29	4	64	156	97	-	-	14	56	
25,000 "	3	16	31	68	7	273	497	230	-	-	40	209	
50,000 "	4	30	68	153	34	1,184	1,906	348	-	-	74	388	
100,000 "	3	39	78	148	19	2,569	3,385	935	-	-	92	388	
200,000 "	4	174	398	1,036	640	12,440	15,856	2,738	-	-	253	1,504	
500,000 "	17	1,540	3,381	9,715	3,191	225,048	279,954	49,184	-	-	2,486	15,615	
1,000,000 "	21	4,923	10,724	31,748	8,207	861,321	1,094,778	222,582	-	-	6,961	47,758	
5,000,000 and over	21	4,923	10,724	31,748	8,207	861,321	1,094,778	222,582	-	-	6,961	47,758	
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...
Totals	56	6,730	14,696	42,896	12,102	1,102,900	1,396,531	276,114	-	-	9,920	65,918	
1965													
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-	-	
\$ 10,000 to \$ 24,999	3	5	10	16	2	12	75	62	-	-	9	32	
25,000 "	6	64	127	306	60	3,754	4,631	526	-	-	115	598	
50,000 "	6	64	127	306	60	3,754	4,631	526	-	-	115	598	
100,000 "	4	28	55	121	15	1,720	2,793	1,258	-	-	71	384	
200,000 "	9	395	878	2,165	1,210	28,456	35,781	5,944	-	-	559	3,311	
500,000 "	12	999	1,964	6,206	2,232	187,868	221,728	31,381	-	-	1,412	9,791	
1,000,000 "	23	5,020	10,783	33,045	8,596	925,971	1,149,907	218,416	-	-	7,218	51,570	
5,000,000 and over	23	5,020	10,783	33,045	8,596	925,971	1,149,907	218,416	-	-	7,218	51,570	
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...
Totals	57	6,511	13,816	41,859	12,115	1,147,779	1,414,915	257,587	-	-	9,384	65,684	

TABLE 4. Principal Statistics classified by Size Group based on Total Value Added, 1964 and 1965

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
No.		'000			\$'000			\$'000		\$'000			
1964													
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-	-	
\$ 10,000 to \$ 24,999	3	7	14	24	2	23	81	56	-	-	10	35	56
25,000 " 49,999	6	30	64	157	36	806	1,436	249	-	-	75	416	349
50,000 " 99,999													
100,000 " 199,999													
200,000 " 499,999													
500,000 " 999,999	4	40	81	144	16	1,926	2,751	883	-	-	91	381	937
1,000,000 " 4,999,999	4	128	287	660	344	6,580	8,952	2,334	-	-	212	1,112	2,802
5,000,000 and over	18	1,602	3,527	10,164	3,498	232,244	288,534	50,010	-	-	2,571	16,215	52,612
Head offices, sales offices and auxiliary units	21	4,923	10,724	31,748	8,207	861,321	1,094,778	222,582	-	-	6,961	47,758	224,235
Totals	56	6,730	14,696	42,896	12,102	1,102,900	1,396,531	276,114	-	-	9,920	65,918	280,991
1965													
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-	-	-
\$ 10,000 to \$ 24,999	5	9	17	35	11	90	234	158	-	-	21	94	176
25,000 " 49,999	3	16	33	71	20	368	749	391	-	-	47	236	414
50,000 " 99,999													
100,000 " 199,999													
200,000 " 499,999													
500,000 " 999,999	4	58	115	284	41	4,174	5,371	798	-	-	95	547	389
1,000,000 " 4,999,999	9	343	735	1,973	850	22,730	29,187	5,620	-	-	508	3,060	6,039
5,000,000 and over	13	1,065	2,133	6,452	2,598	194,447	229,467	32,204	-	-	1,495	10,178	34,534
Head offices, sales offices and auxiliary units	23	5,020	10,783	33,045	8,596	925,971	1,149,907	218,416	-	-	7,218	51,570	221,877
Totals	57	6,511	13,816	41,859	12,115	1,147,779	1,414,915	257,587	-	-	9,384	65,684	263,430

TABLE 5. Principal Statistics classified by Size Group based on Total Employed, 1964 and 1965

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
No.		'000			\$'000			\$'000		\$'000			
1964													
Under 5 employed	4	8	16	28	4	64	156	97	-	-	14	56	115
5- 14 employed	4	19	42	105	20	945	1,504	253	-	-	44	241	325
15- 49 "	8	116	253	590	127	9,287	12,131	2,882	-	-	225	1,178	3,218
50- 99 "	7	361	865	2,159	1,024	53,520	69,935	14,640	-	-	499	3,133	16,309
100-199 "	17	1,666	3,664	10,912	4,415	296,845	375,485	80,958	-	-	2,389	16,417	81,147
200-499 "	12	2,412	5,161	15,558	4,585	403,332	513,801	98,965	-	-	3,696	24,198	101,401
500 employed and over	4	2,148	4,695	13,543	1,928	338,906	423,519	78,320	-	-	3,053	20,695	78,475
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	56	6,730	14,696	42,896	12,102	1,102,900	1,396,531	276,114	-	-	9,920	65,918	280,991
1965													
Under 5 employed	4	6	12	21	3	44	148	103	-	-	13	55	122
5- 14 employed	4	13	27	66	18	754	1,401	666	-	-	40	210	691
15- 49 "	10	170	362	928	179	13,717	19,753	6,125	-	-	319	1,890	6,430
50- 99 "	11	662	1,421	3,876	1,843	94,995	122,676	24,641	-	-	882	5,624	27,626
100-199 "	15	1,605	3,342	10,421	4,457	322,503	402,335	75,194	-	-	2,301	16,243	75,075
200-499 "	9	1,980	4,256	13,263	3,680	368,865	453,092	84,134	-	-	2,857	20,145	86,235
500 employed and over	4	2,075	4,397	13,284	1,935	346,902	415,510	66,723	-	-	2,972	21,516	67,251
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	57	6,511	13,816	41,859	12,115	1,147,779	1,414,915	257,587	-	-	9,384	65,684	263,430

TABLE 6. Principal Statistics classified by Type of Organization, 1964 and 1965

Type of organization	Estab-lish-ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec-tricity	Cost of materials and supplies	Value of shipments of goods of own manu-facture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
No.		'000			\$'000				\$'000			\$'000	
1964													
Individual ownerships	-	-	-	-	-	-	-	-	-	-	-	-	-
Partnerships	-	-	-	-	-	-	-	-	-	-	-	-	-
Incorporated companies	55	6,730	14,696	42,896	12,102	1,102,900	1,396,531	276,114	-	-	9,920	65,918	280,991
Co-operatives	1												
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	56	6,730	14,696	42,896	12,102	1,102,900	1,396,531	276,114	-	-	9,920	65,918	280,991
1965													
Individual ownerships	-	-	-	-	-	-	-	-	-	-	-	-	-
Partnerships	-	-	-	-	-	-	-	-	-	-	-	-	-
Incorporated companies	56	6,511	13,816	41,859	12,115	1,147,779	1,414,915	257,587	-	-	9,384	65,684	263,430
Co-operatives	1												
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	57	6,511	13,816	41,859	12,115	1,147,779	1,414,915	257,587	-	-	9,384	65,684	263,430

TABLE 7. Calculation of Output, Input and Value Added, 1964 and 1965

	Manufacturing activity		Non-manufacturing activities		Total activity	
	1964	1965	1964	1965	1964	1965
\$'000						
Output						
1. Shipments and other revenue	1,396,531	1,414,915	53,619	70,557	1,450,150	1,485,472
Inventories— Goods of own manufacture:						
Add closing— Goods in process	24,222	22,826	...	...	24,222	22,826
Finished goods	122,957	127,165	...	...	122,957	127,165
Deduct opening— Goods in process	22,875	24,283	...	...	22,875	24,283
Finished goods	129,720	123,142	...	...	129,720	123,142
2. Net inventory change	(5,416)	2,566	...	...	(5,416)	2,566
3. Gross output (1 + 2)	1,391,115	1,417,481	53,619	70,557	1,444,734	1,488,038
Input						
4. Purchases of goods not of own manufacture .....	...	...	46,288	61,535	46,288	61,535
Inventories— Goods not of own manufacture:						
Add opening .....	...	...	4,300	4,288	4,300	4,288
Deduct closing .....	...	...	4,083	4,189	4,083	4,189
5. Cost of goods sold (not of own manufacture) .....	...	...	46,505	61,634	46,505	61,634
6. Materials, supplies, etc.	1,102,900	1,147,779	2,238	3,080	1,105,138	1,150,859
7. Fuel and electricity	12,102	12,115	...	...	12,102	12,115
8. Gross input (5 + 6 + 7)	1,115,002	1,159,894	48,743	64,714	1,163,745	1,224,658
Value added (3 - 8)	276,114	257,587	4,877	5,843	280,991	263,440

TABLE 8. Employment and Payroll, 1964 and 1965

Year and province	Employees										Salaries and wages				
	Production and related workers				Admini- trative and office		Sales and distribution		Total		Production and related workers		Admini- strative and office	Sales and distrib- ution	Total
	Manufacturing		Other		Male	Female	Male	Female	Male	Female	Manufacturing	Other			
	Male	Female	Male	Female											
	number										\$'000				
1964															
Newfoundland	x	-	-	-	x	x	-	-	x	x	x	-	x	-	x
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	x	-	x	-	x	x	-	-	x	x	x	x	x	-	x
New Brunswick	x	-	-	-	x	x	-	-	x	x	x	-	x	-	x
Quebec	1,716	2	27	-	667	84	10	-	2,420	86	11,328	156	5,752	49	17,285
Ontario	2,078	27	41	-	781	130	48	-	2,948	157	13,465	255	6,985	304	21,009
Manitoba	330	-	13	-	129	47	230	21	702	68	1,962	52	1,072	844	3,930
Saskatchewan	581	1	11	-	154	18	22	-	768	19	3,450	80	1,331	109	4,970
Alberta	740	-	12	-	246	37	-	-	998	37	4,707	76	2,264	-	7,047
British Columbia	665	-	4	-	236	23	14	1	919	24	4,199	26	2,018	84	6,327
Yukon and Northwest Terri- tories	x	-	x	-	x	x	-	-	x	x	x	x	x	-	x
Totals	6,700	30	124	-	2,363	357	324	22	9,511	409	42,896	755	20,877	1,390	65,918
1965															
Newfoundland	x	-	-	-	x	x	-	-	x	x	x	-	x	-	x
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	x	-	x	-	x	x	-	-	x	x	x	x	x	-	x
New Brunswick	x	-	x	-	x	x	-	-	x	x	x	x	x	-	x
Quebec	1,655	2	49	-	654	81	13	-	2,371	83	11,278	299	5,808	64	17,449
Ontario	2,079	24	30	-	796	121	43	-	2,946	145	13,472	193	8,316	311	22,292
Manitoba	280	-	1	-	111	13	7	-	399	13	1,748	8	1,039	22	2,818
Saskatchewan	558	1	12	-	164	17	11	2	745	20	3,073	74	1,638	56	4,842
Alberta	716	2	11	-	248	41	1	-	976	43	4,741	75	2,275	3	7,093
British Columbia	632	1	1	-	232	23	-	-	865	24	3,649	6	2,132	-	5,988
Yukon and Northwest Terri- tories	x	x	x	-	x	x	-	-	x	x	x	x	x	-	x
Totals	6,475	36	116	-	2,365	315	75	2	9,031	353	41,859	727	22,642	456	65,684

TABLE 9. Production and Related Workers, - Manufacturing Activity, 1964 and 1965

Month	1964		1965	
	Male	Female	Male	Female
	number			
Establishments reporting monthly detail (large establishments only):				
January	6,537	27	6,394	36
February	6,509	30	6,443	36
March	6,615	28	6,376	37
April	6,699	30	6,486	37
May	6,838	30	6,660	38
June	6,928	30	6,741	36
July	7,043	30	6,786	34
August	6,939	30	6,689	35
September	6,756	30	6,406	33
October	6,583	30	6,242	35
November	6,457	29	6,115	32
December	6,463	30	6,222	34
Averages	6,700	30	6,464	35
Establishments reporting annual averages (small establishments only) .....	...	...	11	1
Average for all establishments	6,700	30	6,475	36

TABLE 10. Inventories, 1965

Province	Manufacturing				Non-manufacturing	Total inventories
	Materials, supplies, etc.	Goods in process	Finished goods of own manufacture	Total	Products or materials purchased for resale	
book value \$'000						
Opening:						
Newfoundland	x	x	x	x	x	x
Prince Edward Island	-	-	-	-	-	-
Nova Scotia	x	x	x	x	x	x
New Brunswick	x	x	x	x	-	x
Quebec	14,525	6,024	38,459	59,008	570	59,579
Ontario	32,448	9,350	39,591	81,389	902	82,292
Manitoba	1,975	313	5,743	8,031	423	8,454
Saskatchewan	2,068	964	9,504	12,537	4	12,541
Alberta	2,034	1,773	9,634	13,440	149	13,589
British Columbia	5,433	3,554	9,976	18,960	596	19,558
Yukon and Northwest Territories	-	-	x	x	-	x
Totals	63,881	24,283	123,142	211,306	4,288	215,595
Closing:						
Newfoundland	x	x	x	x	x	x
Prince Edward Island	-	-	-	-	-	-
Nova Scotia	x	x	x	x	x	x
New Brunswick	x	x	x	x	-	x
Quebec	12,851	5,519	36,450	54,820	829	55,648
Ontario	34,138	8,978	42,517	85,832	1,035	86,667
Manitoba	2,250	438	7,128	9,817	11	9,827
Saskatchewan	2,512	1,104	9,460	13,076	3	13,079
Alberta	1,992	1,971	9,983	13,946	177	14,123
British Columbia	6,376	2,711	11,227	20,314	528	20,843
Yukon and Northwest Territories	-	-	x	x	-	x
Totals	63,832	22,826	127,165	213,824	4,189	218,012

TABLE 11. Purchased Fuel and Electricity Used, 1964 and 1965

Description	1964		1965	
	Quantity	Cost \$'000	Quantity	Cost \$'000
1. Large establishments reporting commodity detail:				
Bituminous coal:				
(a) From Canadian mines	ton	-	-	-
(b) Imported	"	178	208	2
Sub-bituminous coal (from Alberta mines only)	"	-	-	-
Anthracite coal	"	-	-	-
Lignite coal	"	-	-	-
Coke	"	-	-	-
Gasoline (including gasoline used in cars and trucks)	Imp. gal.	112,874	42	111,066
Fuel oil including kerosene or coal oil	"	1,118,941	81	5,827,120
Wood	cord	-	-	-
Gas:				
(a) Liquefied petroleum gases	Imp. gal.	85	--	356
(b) Other manufactured gas	M cu. ft.	-	-	76,220
(c) Natural gas	"	8,789,431	2,051	7,716,394
Other fuel .....		...	2	...
Electricity purchased	kwh.	1,510,571,284	9,570	1,505,520,531
Steam purchased .....		...	354	...
2. Small establishments not reporting commodity detail:				
Estimate for fuel and electricity		-	-	3
3. All establishments:				
Total fuel and electricity used .....		...	12,102	...
				12,115

SECTION 2. PETROLEUM REFINING

This industry includes establishments primarily engaged in refining crude petroleum. Establishments primarily engaged in blending lubricating oils and greases are covered in Section 3.

Value of shipments and other revenue (manufacturing and non-manufacturing) of the Petroleum Refining industry amounted to \$1,448 millions in 1965, compared with \$1,423 millions in 1964, an increase of \$25 millions or about 2 per cent. Included in this total were shipments of motor gasoline, kerosene, stove oil,

diesel fuel, light and heavy fuel oils, lubricating oil and grease, and other petroleum products valued at \$1,384 millions. Other revenue (non-manufacturing) accounted for \$64 millions.

The cost of materials and supplies, fuel and electricity etc. (inputs), used in the production of goods of own manufacture increased by \$40 millions. Cost of inputs in 1965 represented 82.4 per cent of value of shipments of own manufacture (outputs), compared to 79.5 per cent in 1964.

TABLE 1. Principal Statistics, 1961-65

Year and province	Estab-lish-ments	Manufacturing activity						Total activity					
		Production and related workers			Cost of fuel and elec-tricity	Cost of materials and supplies	Value of shipments of goods of own manu-facture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
No.		'000			\$'000			\$'000		\$'000			
1961													
Totals	44	7,220	15,462	40,687	10,820	899,836	1,183,508	275,604	-	-	10,660	63,140	276,723
1962													
Totals	42	6,930	14,980	41,030	10,278	981,793	1,253,068	264,146	-	-	10,184	62,808	266,857
1963													
Totals	40	6,713	14,527	40,840	10,727	1,057,259	1,322,143	265,170	-	-	9,734	61,835	268,644
1964													
Newfoundland	1	x	x	x	x	x	x	x	-	-	x	x	x
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova-Scotia	2	x	x	x	x	x	x	x	-	-	x	x	x
New Brunswick	1	x	x	x	x	x	x	x	-	-	x	x	x
Quebec	6	x	x	x	x	x	x	x	-	-	x	x	x
Ontario	7	1,970	4,327	12,773	3,427	367,003	457,940	81,174	-	-	2,835	19,523	81,238
Manitoba	3	x	x	x	x	x	x	x	-	-	x	x	x
Saskatchewan	6	x	x	x	x	x	x	x	-	-	x	x	x
Alberta	8	x	x	x	x	x	x	x	-	-	x	x	x
British Columbia	6	x	x	x	x	x	x	x	-	-	x	x	x
Yukon and Northwest Territories	1	x	x	x	x	x	x	x	-	-	x	x	x
Totals	41	6,535	14,268	41,881	11,950	1,089,131	1,371,340	264,204	-	-	9,547	63,872	268,604
1965													
Newfoundland	1	x	x	x	x	x	x	x	-	-	x	x	x
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	2	x	x	x	x	x	x	x	-	-	x	x	x
New Brunswick	1	x	x	x	x	x	x	x	-	-	x	x	x
Quebec	6	x	x	x	x	x	x	x	-	-	x	x	x
Ontario	7	1,941	4,106	12,545	3,513	402,897	479,901	75,940	-	-	2,801	20,450	76,116
Manitoba	3	x	x	x	x	x	x	x	-	-	x	x	x
Saskatchewan	6	x	x	x	x	x	x	x	-	-	x	x	x
Alberta	7	x	x	x	x	x	x	x	-	-	x	x	x
British Columbia	6	x	x	x	x	x	x	x	-	-	x	x	x
Yukon and Northwest Territories	1	x	x	x	x	x	x	x	-	-	x	x	x
Totals	40	6,282	13,335	40,617	11,946	1,129,759	1,383,649	244,108	-	-	8,976	63,272	249,233

TABLE 2. Principal Statistics classified by Size Group based on Value of Shipments of Goods of Own Manufacture, 1964 and 1965

Size group	Estab-lish-ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec-tricity	Cost of materials and supplies	Value of shipments of goods of own manu-facture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
	No.		'000			\$'000			\$'000		\$'000		
1964													
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-	-	
\$ 10,000 to \$ 24,999	-	-	-	-	-	-	-	-	-	-	-	-	
25,000 " 49,999	-	-	-	-	-	-	-	-	-	-	-	-	
50,000 " 99,999	-	-	-	-	-	-	-	-	-	-	-	-	
100,000 " 199,999	-	-	-	-	-	-	-	-	-	-	-	-	
200,000 " 499,999	-	-	-	-	-	-	-	-	-	-	-	-	
500,000 " 999,999	-	-	-	-	-	-	-	-	-	-	-	-	
1,000,000 " 4,999,999	5	175	408	965	355	7,493	10,691	2,653	-	-	229	1,264	3,354
5,000,000 and over	36	6,360	13,860	40,916	11,595	1,081,639	1,360,649	261,552	-	-	9,318	62,608	265,251
Head offices, sales offices and auxiliary units
Totals	41	6,535	14,268	41,881	11,950	1,089,131	1,371,340	264,204	-	-	9,547	63,872	268,604
1965													
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-	-	
\$ 10,000 to \$ 24,999	-	-	-	-	-	-	-	-	-	-	-	-	
25,000 " 49,999	-	-	-	-	-	-	-	-	-	-	-	-	
50,000 " 99,999	-	-	-	-	-	-	-	-	-	-	-	-	
100,000 " 199,999	-	-	-	-	-	-	-	-	-	-	-	-	
200,000 " 499,999	-	-	-	-	-	-	-	-	-	-	-	-	
500,000 " 999,999	-	-	-	-	-	-	-	-	-	-	-	-	
1,000,000 " 4,999,999	5	214	478	1,194	385	11,837	14,683	2,406	-	-	286	1,627	2,214
5,000,000 and over	35	6,068	12,857	39,423	11,561	1,117,922	1,368,966	241,702	-	-	8,690	61,645	247,020
Head offices, sales offices and auxiliary units
Totals	40	6,282	13,335	40,617	11,946	1,129,759	1,383,649	244,108	-	-	8,976	63,272	249,233

TABLE 3. Principal Statistics classified by Size Group based on Manufacturing Value Added, 1964 and 1965

Size group	Estab-lish-ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec-tricity	Cost of materials and supplies	Value of shipments of goods of own manu-facture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
	No.		'000			\$'000			\$'000		\$'000		
1964													
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-	-	
\$ 10,000 to \$ 24,999	-	-	-	-	-	-	-	-	-	-	-	-	
25,000 " 49,999	-	-	-	-	-	-	-	-	-	-	-	-	
50,000 " 99,999	-	-	-	-	-	-	-	-	-	-	-	-	
100,000 " 199,999	-	-	-	-	-	-	-	-	-	-	-	-	
200,000 " 499,999	-	-	-	-	-	-	-	-	-	-	-	-	
500,000 " 999,999	-	-	-	-	-	-	-	-	-	-	-	-	
1,000,000 " 4,999,999	5	186	422	1,067	649	13,217	16,460	2,241	-	-	255	1,448	2,863
5,000,000 and over	16	1,502	3,282	9,474	3,157	220,442	272,720	46,491	-	-	2,432	15,252	48,620
Head offices, sales offices and auxiliary units	20	4,847	10,565	31,341	8,144	855,472	1,082,161	215,472	-	-	6,860	47,172	217,121
Head offices, sales offices and auxiliary units
Totals	41	6,535	14,268	41,881	11,950	1,089,131	1,371,340	264,204	-	-	9,547	63,872	268,604
1965													
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-	-	
\$ 10,000 to \$ 24,999	-	-	-	-	-	-	-	-	-	-	-	-	
25,000 " 49,999	-	-	-	-	-	-	-	-	-	-	-	-	
50,000 " 99,999	-	-	-	-	-	-	-	-	-	-	-	-	
100,000 " 199,999	-	-	-	-	-	-	-	-	-	-	-	-	
200,000 " 499,999	-	-	-	-	-	-	-	-	-	-	-	-	
500,000 " 999,999	-	-	-	-	-	-	-	-	-	-	-	-	
1,000,000 " 4,999,999	8	412	910	2,242	1,219	30,399	36,868	4,792	-	-	540	3,126	6,693
5,000,000 and over	10	921	1,797	5,751	2,153	180,267	210,452	27,801	-	-	1,314	9,173	27,680
Head offices, sales offices and auxiliary units	22	4,949	10,628	32,824	8,574	919,093	1,136,329	211,515	-	-	7,122	50,972	214,860
Head offices, sales offices and auxiliary units
Totals	40	6,282	13,335	40,617	11,946	1,129,759	1,383,649	244,108	-	-	8,976	63,272	249,233

TABLE 4. Principal Statistics classified by Size Group based on Total Value Added, 1964 and 1965

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
No.		'000			'000			'000		'000			
1964													
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-		
\$ 10,000 to \$ 24,999	-	-	-	-	-	-	-	-	-	-	-		
25,000 " 49,999	-	-	-	-	-	-	-	-	-	-	-		
50,000 " 99,999	-	-	-	-	-	-	-	-	-	-	-		
100,000 " 199,999	4	124	275	817	342	6,021	7,881	1,415	-	170	848	1,804	
200,000 " 499,999		17	1,564	3,428	9,923	3,463	227,638	281,299	47,317	-	2,517	15,852	49,679
500,000 " 999,999		20	4,847	10,565	31,341	8,144	855,472	1,082,161	215,472	-	6,860	47,172	217,121
1,000,000 " 4,999,999
5,000,000 and over
Head offices, sales offices and auxiliary units	
Totals	41	6,535	14,268	41,881	11,950	1,089,131	1,371,340	264,204	-	9,547	63,872	268,604	
1965													
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-		
\$ 10,000 to \$ 24,999	-	-	-	-	-	-	-	-	-	-	-		
25,000 " 49,999	-	-	-	-	-	-	-	-	-	-	-		
50,000 " 99,999	-	-	-	-	-	-	-	-	-	-	-		
100,000 " 199,999	7	346	741	1,997	853	23,820	29,129	3,969	-	457	2,739	3,947	
200,000 " 499,999		11	987	1,966	5,996	2,518	186,846	218,192	28,624	-	1,397	9,561	30,425
500,000 " 999,999		22	4,949	10,628	32,624	8,574	919,093	1,136,329	211,515	-	7,122	50,972	214,860
1,000,000 and over
5,000,000 and over
Head offices, sales offices and auxiliary units	
Totals	40	6,282	13,335	40,617	11,946	1,129,759	1,383,649	244,108	-	8,976	63,272	249,233	

TABLE 5. Principal Statistics classified by Size Group based on Total Employed, 1964 and 1965

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
No.		'000			'000			'000		'000			
1964													
Under 5 employed	-	-	-	-	-	-	-	-	-	-	-		
5 - 14 employed	4	78	173	440	105	7,416	9,450	1,709	-	115	647	1,894	
15 - 49 "		5	307	734	1,834	980	48,481	61,701	11,363	-	395	2,501	12,801
50 - 99 "		16	1,590	3,505	10,505	4,352	290,996	362,868	73,848	-	2,288	15,832	74,034
100 - 199 "		12	2,412	5,161	15,558	4,585	403,332	513,801	98,965	-	3,696	24,198	101,401
200 - 499 "		4	2,148	4,694	13,543	1,927	338,906	423,519	78,320	-	3,053	20,695	78,475
500 employed and over .....	...	...	...	...	...	...	...	...	...	...	...	...
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...
Totals	41	6,535	14,268	41,881	11,950	1,089,131	1,371,340	264,204	-	9,547	63,872	268,604	
1965													
Under 5 employed	-	-	-	-	-	-	-	-	-	-	-		
5 - 14 employed	-	-	-	-	-	-	-	-	-	-	-		
15 - 49 "	3	73	189	413	86	7,487	9,699	2,287	-	113	641	2,273	
50 - 99 "	9	549	1,171	3,235	1,788	84,003	103,013	15,769	-	733	4,726	18,398	
100 - 199 "	15	1,605	3,342	10,421	4,457	322,503	402,335	75,194	-	2,301	16,243	75,075	
200 - 499 "	9	1,980	4,256	13,263	3,680	368,865	453,092	84,134	-	2,857	20,145	86,235	
500 employed and over	4	2,075	4,397	13,284	1,935	346,902	415,510	66,724	-	2,972	21,516	67,251	
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...
Totals	40	6,282	13,335	40,617	11,946	1,129,759	1,383,649	244,108	-	8,976	63,272	249,233	

TABLE 6. Principal Statistics classified by Type of Organization, 1964 and 1965

Type of organization	Establishments	Manufacturing activity						Total activity					
		Production and related workers			Cost of fuel and electricity	Cost of materials and supplies	Value of shipments of goods of own manufacture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
No.		'000			'000			'000		'000			
1964													
Individual ownerships	-	-	-	-	-	-	-	-	-	-	-	-	
Partnerships	-	-	-	-	-	-	-	-	-	-	-	-	
Incorporated companies	40	6,535	14,268	41,881	11,950	1,089,131	1,371,340	264,204	-	-	9,547	63,872	268,604
Co-operatives	1												
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	41	6,535	14,268	41,881	11,950	1,089,131	1,371,340	264,204	-	-	9,547	63,872	268,604
1965													
Individual ownerships	-	-	-	-	-	-	-	-	-	-	-	-	-
Partnerships	-	-	-	-	-	-	-	-	-	-	-	-	-
Incorporated companies	39	6,282	13,335	40,617	11,946	1,129,759	1,383,649	244,108	-	-	8,976	63,272	249,233
Co-operatives	1												
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	40	6,282	13,335	40,617	11,946	1,129,759	1,383,649	244,108	-	-	8,976	63,272	249,233

TABLE 7. Calculation of Output, Input and Value Added, 1964 and 1965

	Manufacturing activity		Non-manufacturing activities		Total activity	
	1964	1965	1964	1965	1964	1965
\$'000						
Output						
1. Shipments and other revenue	1,371,340	1,383,649	51,678	64,197	1,423,018	1,447,846
Inventories—Goods of own manufacture:						
Add closing—Goods in process	22,545	20,964	...	...	22,545	20,964
Finished goods	121,620	125,382	...	...	121,620	125,382
Deduct opening—Goods in process	21,356	22,607	...	...	21,356	22,607
Finished goods	128,864	121,576	...	...	128,864	121,576
2. Net inventory change	(6,055)	2,163	...	...	(6,055)	2,163
3. Gross output (1+2)	1,365,285	1,385,812	51,678	64,197	1,416,963	1,450,009
Input						
4. Purchases of goods not of own manufacture .....	...	...	44,833	55,826	44,833	55,826
Inventories—Goods not of own manufacture:						
Add opening .....	...	...	4,196	3,937	4,196	3,937
Deduct closing .....	...	...	3,952	3,729	3,952	3,729
5. Cost of goods sold (not of own manufacture) .....	...	...	45,077	56,034	45,077	56,034
6. Materials, supplies, etc.	1,089,131	1,129,759	2,201	3,038	1,091,332	1,132,797
7. Fuel and electricity	11,950	11,946	...	...	11,950	11,946
8. Gross input (5+6+7)	1,101,081	1,141,705	47,278	59,072	1,148,359	1,200,777
Value added (3-8)	264,204	244,108	4,400	5,125	268,604	249,233

TABLE 8. Employment and Payroll, 1964 and 1965

Year and province	Employees										Salaries and wages				
	Production and related workers				Administrative and office		Sales and distribution		Total		Production and related workers		Administrative and office	Sales and distribution	Total
	Manufacturing		Other		Male	Female	Male	Female	Male	Female	Manufacturing	Other			
	Male	Female	Male	Female											
number										\$'000					
1964															
Newfoundland	x	x	x	-	x	x	x	x	x	x	x	x	x	x	x
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	x	x	x	-	x	x	x	x	x	x	x	x	x	x	x
New Brunswick	x	x	x	-	x	x	x	x	x	x	x	x	x	x	x
Quebec	x	x	x	-	x	x	-	-	x	x	x	x	x	-	x
Ontario	1,943	27	40	-	723	102	-	-	2,706	129	12,773	251	6,500	-	19,523
Manitoba	x	-	x	-	x	x	x	x	x	x	x	x	x	x	x
Saskatchewan	x	x	x	-	x	x	x	-	x	x	x	x	x	x	x
Alberta	x	-	x	-	x	x	-	-	x	x	x	x	x	x	x
British Columbia	x	-	x	-	x	x	x	x	x	x	x	x	x	x	x
Yukon and Northwest Territories	x	x	x	-	x	x	x	x	x	x	x	x	x	x	x
Totals	6,505	30	123	-	2,287	319	261	22	9,176	371	41,881	751	20,221	1,020	63,872
1965															
Newfoundland	x	-	-	-	x	x	-	-	x	x	x	-	x	-	x
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	x	-	x	-	x	x	-	-	x	x	x	x	x	-	x
New Brunswick	x	-	x	-	x	x	-	-	x	x	x	x	x	-	x
Quebec	1,599	2	49	-	644	75	-	-	2,292	77	11,006	299	5,708	-	17,012
Ontario	1,917	24	30	-	731	99	-	-	2,678	123	12,545	193	7,712	-	20,450
Manitoba	x	-	x	-	x	x	x	x	x	x	x	x	x	x	x
Saskatchewan	x	x	x	-	x	x	x	x	x	x	x	x	x	x	x
Alberta	x	x	x	-	x	x	-	-	x	x	x	x	x	-	x
British Columbia	x	-	x	-	x	x	-	-	x	x	x	x	x	-	x
Yukon and Northwest Territories	x	x	x	-	x	x	-	-	x	x	x	x	x	-	x
Totals	6,247	35	116	-	2,281	284	x	x	8,655	321	40,617	727	21,873	x	63,272

TABLE 9. Production and Related Workers, - Manufacturing Activity, 1964 and 1965

Month	1964		1965	
	Male	Female	Male	Female
number				
Establishments reporting monthly detail (large establishments only):				
January	6,347	27	6,196	36
February	6,319	30	6,248	36
March	6,425	28	6,178	37
April	6,506	30	6,280	37
May	6,640	30	6,437	38
June	6,721	30	6,504	36
July	6,834	30	6,530	34
August	6,731	30	6,440	35
September	6,565	30	6,196	33
October	6,390	30	6,032	35
November	6,271	29	5,901	32
December	6,276	30	6,012	34
Averages	6,505	30	6,247	35
Establishments reporting annual averages (small establishments only)	-	-	-	-
Average for all establishments	6,505	30	6,247	35

TABLE 10. Inventories, 1965

Province	Manufacturing				Non-manufacturing	Total inventories
	Materials, supplies, etc.	Goods in process	Finished goods of own manufacture	Total	Products or materials purchased for resale	
book value \$'000						
Opening:						
Newfoundland	x	x	x	x	x	x
Prince Edward Island	-	-	-	-	-	-
Nova Scotia	x	x	x	x	x	x
New Brunswick	x	x	x	x	-	x
Quebec	13,311	6,024	38,008	57,343	526	57,869
Ontario	31,398	7,674	38,533	77,605	601	78,207
Manitoba	x	x	x	x	x	x
Saskatchewan	x	x	x	x	x	x
Alberta	x	x	x	x	x	x
British Columbia	x	x	x	x	x	x
Yukon and Northwest Territories	-	-	x	x	-	x
Totals	61,604	22,607	121,576	205,787	3,937	209,724
Closing:						
Newfoundland	x	x	x	x	x	x
Prince Edward Island	-	-	-	-	-	-
Nova Scotia	x	x	x	x	x	x
New Brunswick	x	x	x	x	-	x
Quebec	10,738	5,519	35,753	52,010	784	52,794
Ontario	33,208	7,124	41,532	81,865	630	82,495
Manitoba	x	x	x	x	-	x
Saskatchewan	x	x	x	x	x	x
Alberta	x	x	x	x	x	x
British Columbia	x	x	x	x	x	x
Yukon and Northwest Territories	-	-	x	x	-	x
Totals	60,759	20,964	125,381	207,105	3,729	210,834

TABLE 11. Purchased Fuel and Electricity Used, 1964 and 1965

Description	1964		1965	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
I. Large establishments reporting commodity detail:				
Bituminous coal:				
(a) From Canadian mines	ton	-	-	-
(b) Imported	"	-	-	-
Sub-bituminous coal (from Alberta mines only)	"	-	-	-
Anthracite coal	"	-	-	-
Lignite coal	"	-	-	-
Coke	"	-	-	-
Gasoline (including gasoline used in cars and trucks)	Imp. gal.	61,559	24	56,949
Fuel oil including kerosene or coal oil	"	5,023	2	4,919,433
Wood	cord	-	-	-
Gas:				
(a) Liquefied petroleum gases	Imp. gal.	-	-	-
(b) Other manufactured gas	M cu. ft.	-	-	76,220
(c) Natural gas	"	8,786,439	2,048	7,698,540
Other fuel		-	-	-
Electricity purchased	kwh.	1,506,868,130	9,523	1,499,970,032
Steam purchased .....		...	354	...
2. Small establishments not reporting commodity detail:				
Estimate for fuel and electricity		-	-	-
3. All establishments:				
Total fuel and electricity used .....		...	11,950	...
				11,946

TABLE 12. Materials and Supplies - Manufacturing Activity, 1964 and 1965

Description	1964		1965	
	Quantity	Cost \$'000	Quantity	Cost \$'000
1. Materials used:				
Crude oil in its natural state, from Canadian wells	bbl. 192,598,898	578,848	204,359,888	613,229
Absorption gasoline, etc., from Canadian wells (run to stills)	" 5,140,003	14,728	5,116,818	14,323
Crude oil, in its natural state, imported, (run to stills):				
From United States	" -	-	-	-
From South America	bbl. 102,843,304	282,247	87,261,490	233,703
From other countries	" 41,309,808	108,581	57,705,766	144,940
Crude oil, not in its natural state (run to stills)	" 754,787	4,451	800,990	5,479
Benzol	" 6,120	40	726,600	194
Alkylate and cumene	" 643,830	3,832	623,006	3,955
Phenol	lb. 1,276,450	155	790,000	96
Sulphuric acid, 100%	" 29,224,001	452	36,718,332	548
Ammonia, anhydrous	" 629,468	72	549,450	73
Sulphur	" 311,430	10	214,038	8
Caustic soda	" 20,559,129	772	24,253,824	827
Soda ash	" 1,208,260	41	1,108,633	37
Litharge	" 190,620	34	138,150	27
Fuller's earth, bentonite and other clays	ton 2,332	148	2,144	150
Tetraethyl fluid	lb. 53,476,490	18,853	66,027,247	24,910
Dyes for gasoline	" ..	122	" ..	202
Inhibitor	" ..	1,051	" ..	2,350
Fluid catalytic cracking unit catalysts (Aerocat, Nalact, Filtrol 100, FCCU catalyst etc.)	" ..	5,935	" ..	5,543
Reforming or polymerization catalysts	" ..	1,218	" ..	1,489
Additives	" ..	3,286	" ..	2,633
All other materials and components used	" ..	33,203	" ..	44,097
2. Containers and other packaging materials and supplies used .....	...	8,325	...	8,405
3. Operating, maintenance and repair supplies used (excluding fuel) .....	...	16,646	...	16,879
4. Amount paid out to others for work done on materials owned by establishments .....	...	6,081	...	5,661
Totals .....	...	1,089,131	...	1,129,759

TABLE 13. Shipments of Goods of Own Manufacture, 1964 and 1965

Description	1964			1965		
	Quantity made including amounts for own use	Quantity shipped	Value of shipments	Quantity made including amounts for own use	Quantity shipped	Value of shipments
	barrels		\$'000	barrels		\$'000
1. Products:						
Gasoline (excluding imported casing head-blended):						
Aviation gasoline	1,614,456	1,645,223	10,439	1,581,548	1,535,146	9,638
Motor gasoline	122,218,568	122,523,754	603,807	128,113,263	128,794,539	618,791
Naphtha specialties	745,797	729,815	3,591	791,747	776,353	3,648
Aviation turbine fuel	7,374,117	7,130,270	27,932	6,797,490	6,733,826	26,300
Kerosene, stove oil (No. 1 fuel oil) and tractor fuel	18,817,636	18,771,103	83,790	19,094,230	18,680,562	79,957
Diesel fuel	35,711,947	35,720,107	144,341	39,847,527	39,470,235	154,191
Light fuel oils (Nos. 2 and 3)	59,141,952	58,744,868	239,677	59,874,705	58,657,201	225,398
Heavy fuel oils (Nox. 4, 5, and 6)	60,046,498	48,160,413	107,525	60,124,293	48,093,228	109,624
Lubricating oil and grease	3,148,191	3,148,353	47,693	3,184,842	3,273,891	47,609
Asphalt	10,767,552	10,812,849	32,573	10,845,480	11,161,246	33,023
Petroleum coke .....	..	992,710	1,978	..	1,156,252	2,410
Alkylate and alkylate feed stocks	602,131	659,032	3,168	780,925	776,683	3,299
Petrochemical feed stocks	8,901,610	8,867,201	28,026	8,318,857	8,298,061	26,395
Liquefied petroleum gases	5,734,605	4,788,484	12,679	5,523,511	5,017,700	12,130
All other products .....	...	...	25,637	...	...	32,039
2. Amount received in payment for work done on materials and products owned by others .....	...	...	357	...	...	-
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above .....	...	...	(865)	...	...	(803)
Net adjustment for establishments receiving progress payments .....	...	...	(1,006)	...	...	-
Total adjusted value of shipments and work done .....	...	...	1,371,340	...	...	1,383,649

TABLE 14. Stocks on Hand at the Refineries at the End of December 31, 1965

	Quantity barrels
Crude oil and naphtha, in its natural state, from Canadian wells	5,235,451
Absorption gasoline, etc., from Canadian wells	547,829
Crude oil, imported:	
In its natural state	5,530,124
Not in its natural state	-
Total crude	11,313,404
Naphtha specialties	209,799
Aviation gasoline	249,267
Motor gasoline	9,585,930
Aviation turbine fuel	1,003,351
Kerosene, stove oil (No. 1 fuel) and tractor fuel	2,299,280
Diesel fuel	3,946,350
Light fuel oils (Nos. 2 and 3)	9,146,513
Heavy fuel oils (Nos. 4, 5 and 6)	5,065,111
Lubricating oils and greases	466,690
Liquefied petroleum gases (propane, butane, etc.)	199,393
Petroleum coke	158,188

TABLE 15. Refinery Production¹ of Gasoline, 1956-65

Year	Motor gasoline	Aviation gasoline		Total
		barrels		
1956	85,846,938	758,826		86,605,764
1957	86,290,914	593,253		86,884,167
1958	89,329,101	675,870		90,004,971
1959	95,519,002	677,963		96,196,965
1960	101,397,928	1,260,440		102,678,368
1961	106,628,143	1,137,454		107,765,597
1962	111,032,529	1,539,803		112,572,332
1963	116,265,159	1,660,197		117,925,356
1964	122,218,568	1,614,456		123,833,024
1965	128,113,263	1,581,548		129,694,811

¹ Includes production made for own use.

TABLE 16. Number¹ and Total Capacity of Petroleum Refineries in Operation, December 31, 1962-65

Province	1962		1963		1964		1965	
	Number	Capacity, in barrels of crude per day	Number	Capacity, in barrels of crude per day	Number	Capacity, in barrels of crude per day	Number	Capacity, in barrels of crude per day
Newfoundland	1	8,500	1	8,500	1	8,500	1	8,500
Nova Scotia	1	50,000	1	50,000	2	72,000	2	72,000
New Brunswick	2	45,300	2	45,300	1	45,000	1	45,000
Québec	6	304,500	6	305,000	6	318,700	6	328,700
Ontario	7	279,170	8	305,470	7	306,900	7	322,400
Manitoba	3	37,420	3	40,420	3	41,300	3	41,300
Saskatchewan	6	69,720	6	70,010	6	70,010	6	69,650
Alberta	10	94,560	8	88,800	7	86,700	7	93,300
British Columbia	6	97,300	6	97,300	6	101,500	6	100,400
Northwest Territories	1	1,900	1	1,900	1	1,900	1	1,900
Canada	43	987,970	42	1,012,700	40	1,052,510	40	1,083,150

¹ Number of refineries in above table may not agree with number of establishments shown in Table 1 et seq. because of different methods used in accounting for refineries in partial operations or terminating operations during the year by the two agencies involved.

Note: 1 barrel=35 Imperial gallons.

Source: Petroleum Refineries in Canada, January 1, 1966 issued by Department of Energy, Mines and Resources, Catalogue No. 429-06/5.

TABLE 17. Consumption of Crude Oil in Petroleum Refineries, showing Canadian and Imported Separately, 1956-65

Year	Canadian ¹	Imported	Total
1956	125,576,963	105,738,257	231,315,220
1957	128,017,186	110,836,969	238,854,155
1958	138,547,168	106,458,959	240,006,127
1959	152,143,029	115,599,492	267,742,521
1960	152,033,834	125,851,879	277,885,713
1961	162,601,125	132,469,105	295,070,230
1962	175,022,688	134,080,865	309,103,553
1963	182,550,112	147,122,703	329,672,815
1964	197,738,901	144,907,899	342,646,800
1965	209,476,706	145,788,246	355,244,952

¹ Includes the crude naphtha and absorption gasoline from Canadian wells which were run to refinery stills.

List of Establishments classified to this Industry, 1965

(Does not include establishments classified to other industries, which as a secondary activity, manufacture products typical of this industry)

Name	Location
Newfoundland:	
Golden Eagle Refining Co. of Canada Ltd.	Holyrood
Nova Scotia:	
Imperial Oil Limited	Imperoyal
Texaco Canada Ltd.	Halifax
New Brunswick:	
Irving Refining Limited	East Saint John
Quebec:	
B.P. Refinery Canada Limited	Ville d'Anjou
British American Oil Co. Limited	Montreal East
Canadian Petrofina Ltd.	Pointe-aux-Trembles
Imperial Oil Limited	Montreal East
Shell Canada Limited	Montreal East
Texaco Canada Limited	Montreal East
Ontario:	
B.P. Refinery Canada Limited	Oakville
British American Oil Co. Limited	Clarkson
Imperial Oil Limited	Sarnia
Shell Canada Limited	Corunna, Oakville
Sun Oil Company Limited	Sarnia
Texaco Canada Limited (Regent Refining Div.)	Port Credit
Manitoba:	
British American Oil Co. Ltd.	Brandon
Imperial Oil Limited	East St. Paul
Shell Canada Limited	St. Boniface
Saskatchewan:	
British American Oil Co. Ltd.,	Moose Jaw, Saskatoon
Husky Oil Canada Ltd.	Moose Jaw
Consumers' Co-Operative Refineries Limited	Regina
Imperial Oil Limited	Regina
Northern Petroleum Corporation Ltd.	Kamsack
Alberta:	
British American Oil Co. Limited	Calgary, Edmonton
Husky Oil Canada Ltd.	Lloydminster
Imperial Oil Limited	Calgary, Edmonton
Shell Canada Limited	Innisfail
Texaco Canada Limited	Edmonton
British Columbia:	
British American Oil Co. Limited	Kamloops, Port Moody
Imperial Oil Limited	Ioco
Shell Canada Limited	North Burnaby
Standard Oil Company of British Columbia Ltd.	North Burnaby
Pacific Petroleum Ltd.	Taylor
Northwest Territories:	
Imperial Oil Limited	Norman Wells

SECTION 3. MANUFACTURERS OF LUBRICATING OILS AND GREASES

This industry includes establishments primarily engaged in blending lubricating oils and greases. Establishments primarily engaged in refining crude petroleum are covered in Section 2.

Value of shipments and other revenue (manufacturing and non-manufacturing) of the Manufacturers of Lubricating Oils and Greases amounted to \$37 millions in 1965, compared with \$27 millions in 1964, an increase of \$10 millions or about 37 per cent. Included

in this total were shipments of lubricating oils and lubricating greases, etc. valued at \$31 millions. Other revenue (non-manufacturing) accounted for \$6 millions.

The cost of materials and supplies, fuel and electricity etc. (inputs), used in the production of goods of own manufacture increased by \$4 millions. Cost of inputs in 1965 represented 57.4 per cent of value of shipments of own manufacture (outputs), compared to 54 per cent in 1964.

TABLE 1. Principal Statistics, 1961-65

Year and province	Establishments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and electricity	Cost of materials and supplies	Value of shipments of goods of own manufacture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
No.		'000			\$'000				\$'000		\$'000		
1961													
Totals	13	186	382	839	148	11,857	17,105	5,122	x	x	331	1,628	5,267
1962													
Totals	16	194	405	889	166	12,214	21,197	9,364	x	x	351	1,785	9,573
1963													
Totals	15	192	402	912	155	12,547	22,728	9,654	-	-	354	1,856	9,581
1964													
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec	2	x	x	x	x	x	x	x	-	-	x	x	x
Ontario	9	135	282	692	109	8,491	16,969	8,883	-	-	270	1,486	9,073
Manitoba	1	x	x	x	x	x	x	x	-	-	x	x	x
Saskatchewan	-	-	-	-	-	-	-	-	-	-	-	-	-
Alberta	1	x	x	x	x	x	x	x	-	-	x	x	x
British Columbia	2	x	x	x	x	x	x	x	-	-	x	x	x
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	15	195	428	1,014	152	13,768	25,191	11,910	-	-	373	2,045	12,386
1965													
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec	2	x	x	x	x	x	x	x	-	-	x	x	x
Ontario	10	162	339	927	116	12,791	23,572	10,769	-	-	292	1,842	11,201
Manitoba	1	x	x	x	x	x	x	x	-	-	x	x	x
Saskatchewan	-	-	-	-	-	-	-	-	-	-	-	-	-
Alberta	2	x	x	x	x	x	x	x	-	-	x	x	x
British Columbia	2	x	x	x	x	x	x	x	-	-	x	x	x
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	17	229	482	1,242	170	18,020	31,265	13,479	-	-	408	2,412	14,197

TABLE 2. Principal Statistics classified by Size Group based on Value of Shipments of Goods of Own Manufacture, 1964 and 1965

Size group	Estab- lish- ments	Manufacturing activity						Total activity						
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added	
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages		
No.		'000			'000			'000		'000				
1964														
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-			
\$ 10,000 to \$ 24,999	3	7	14	24	2	23	81	56	-	-	10	35	56	
25,000 " 49,999		13	25	57	6	146	333	210	-	-	32	183	304	
50,000 " 99,999		3	15	33	75	23	562	1,015	374	-	-	49	262	401
100,000 " 199,999		3	15	33	75	23	562	1,015	374	-	-	49	262	401
200,000 " 499,999	6	160	357	858	122	13,037	23,763	11,270	-	-	282	1,565	11,625	
500,000 " 999,999		160	357	858	122	13,037	23,763	11,270	-	-	282	1,565	11,625	
1,000,000 " 4,999,999		160	357	858	122	13,037	23,763	11,270	-	-	282	1,565	11,625	
5,000,000 and over	6	160	357	858	122	13,037	23,763	11,270	-	-	282	1,565	11,625	
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	15	195	428	1,014	152	13,768	25,191	11,910	-	-	373	2,045	12,386	
1965														
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-	-	-	
\$ 10,000 to \$ 24,999	3	5	10	16	2	12	75	62	-	-	9	32	62	
25,000 " 49,999		12	23	49	11	130	322	209	-	-	26	140	227	
50,000 " 99,999		3	12	26	68	23	463	959	507	-	-	43	241	526
100,000 " 199,999		3	12	26	68	23	463	959	507	-	-	43	241	526
200,000 " 499,999	5	51	100	233	33	2,937	5,056	2,220	-	-	134	784	2,256	
500,000 " 999,999		51	100	233	33	2,937	5,056	2,220	-	-	134	784	2,256	
1,000,000 " 4,999,999		51	100	233	33	2,937	5,056	2,220	-	-	134	784	2,256	
5,000,000 and over	3	149	322	877	101	14,478	24,853	10,481	-	-	194	1,215	11,126	
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	17	229	482	1,242	170	18,020	31,265	13,479	-	-	408	2,412	14,197	

TABLE 3. Principal Statistics classified by Size Group based on Manufacturing Value Added, 1964 and 1965

Size group	Estab- lish- ments	Manufacturing activity						Total activity						
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added	
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages		
No.		'000			'000			'000		'000				
1964														
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-	-		
\$ 10,000 to \$ 24,999	3	7	14	24	2	23	81	56	-	-	10	35	56	
25,000 " 49,999		17	33	73	9	314	572	271	-	-	44	230	376	
50,000 " 99,999		3	22	49	100	22	835	1,383	501	-	-	62	315	537
100,000 " 199,999		3	22	49	100	22	835	1,383	501	-	-	62	315	537
200,000 " 499,999	5	149	332	818	119	12,596	23,155	11,082	-	-	257	1,465	11,417	
500,000 " 999,999		149	332	818	119	12,596	23,155	11,082	-	-	257	1,465	11,417	
1,000,000 " 4,999,999		149	332	818	119	12,596	23,155	11,082	-	-	257	1,465	11,417	
5,000,000 and over	5	149	332	818	119	12,596	23,155	11,082	-	-	257	1,465	11,417	
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	15	195	428	1,014	152	13,768	25,191	11,910	-	-	373	2,045	12,386	
1965														
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-	-		
\$ 10,000 to \$ 24,999	3	5	10	16	2	12	75	62	-	-	9	32	62	
25,000 " 49,999		20	41	90	29	446	909	488	-	-	59	298	529	
50,000 " 99,999		5	20	41	90	29	446	909	488	-	-	59	298	529
100,000 " 199,999		4	28	55	121	15	1,720	2,793	1,258	-	-	71	384	1,275
200,000 " 499,999	5	176	376	1,016	123	15,842	27,489	11,671	-	-	269	1,699	12,331	
500,000 " 999,999		176	376	1,016	123	15,842	27,489	11,671	-	-	269	1,699	12,331	
1,000,000 " 4,999,999		176	376	1,016	123	15,842	27,489	11,671	-	-	269	1,699	12,331	
5,000,000 and over	5	176	376	1,016	123	15,842	27,489	11,671	-	-	269	1,699	12,331	
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	17	229	482	1,242	170	18,020	31,265	13,479	-	-	408	2,412	14,197	

TABLE 4. Principal Statistics classified by Size Group based on Total Value Added, 1964 and 1965

Size group	Establishments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and electricity	Cost of materials and supplies	Value of shipments of goods of own manufacture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
No.		'000			\$'000			\$'000		\$'000			
1964													
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-	-	
\$ 10,000 to \$ 24,999	3	7	14	24	2	23	81	56	-	-	10	35	56
25,000 "	-	-	-	-	-	-	-	-	-	-	-	-	-
50,000 "	5	22	45	104	24	456	913	401	-	-	63	343	503
100,000 "	3	20	44	82	9	1,065	1,872	644	-	-	51	241	685
200,000 "	3	20	44	82	9	1,065	1,872	644	-	-	51	241	685
500,000 "	4	146	326	805	118	12,224	22,526	10,809	-	-	249	1,426	11,143
1,000,000 "	4	146	326	805	118	12,224	22,526	10,809	-	-	249	1,426	11,143
5,000,000 and over	3	79	322	877	101	14,478	24,853	10,481	-	-	194	1,215	11,126
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	15	195	428	1,014	152	13,768	25,191	11,910	-	-	373	2,045	12,386
1965													
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-	-	-
\$ 10,000 to \$ 24,999	3	5	10	16	2	12	75	62	-	-	9	32	62
25,000 "	-	-	-	-	-	-	-	-	-	-	-	-	-
50,000 "	5	20	41	90	29	446	909	488	-	-	59	298	529
100,000 "	3	14	29	68	10	867	1,648	760	-	-	39	247	774
200,000 "	3	41	80	192	28	2,217	3,781	1,689	-	-	107	621	1,707
500,000 "	3	41	80	192	28	2,217	3,781	1,689	-	-	107	621	1,707
1,000,000 "	3	79	322	877	101	14,478	24,853	10,481	-	-	194	1,215	11,126
5,000,000 and over	3	79	322	877	101	14,478	24,853	10,481	-	-	194	1,215	11,126
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	17	229	482	1,242	170	18,020	31,265	13,479	-	-	408	2,412	14,197

TABLE 5. Principal Statistics classified by Size Group based on Total Employed, 1964 and 1965

Size group	Establishments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and electricity	Cost of materials and supplies	Value of shipments of goods of own manufacture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
No.		'000			\$'000			\$'000		\$'000			
1964													
Under 5 employed	4	8	16	28	4	64	156	97	-	-	14	56	115
5- 14 employed	3	11	23	53	7	596	981	405	-	-	32	167	478
15- 49 "	5	46	98	202	34	2,220	3,204	1,020	-	-	122	604	1,172
50- 99 "	3	130	291	731	107	10,888	20,850	10,387	-	-	205	1,218	10,622
100-199 "	3	130	291	731	107	10,888	20,850	10,387	-	-	205	1,218	10,622
200-499 "	-	-	-	-	-	-	-	-	-	-	-	-	-
500 employed and over	-	-	-	-	-	-	-	-	-	-	-	-	-
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	15	195	428	1,014	152	13,768	25,191	11,910	-	-	373	2,045	12,386
1965													
Under 5 employed	4	6	12	21	3	44	148	103	-	-	13	55	122
5- 14 employed	4	13	27	66	18	754	1,401	666	-	-	40	210	691
15- 49 "	9	210	443	1,156	148	17,222	29,717	12,710	-	-	355	2,147	13,384
50- 99 "	9	210	443	1,156	148	17,222	29,717	12,710	-	-	355	2,147	13,384
100-199 "	-	-	-	-	-	-	-	-	-	-	-	-	-
200-499 "	-	-	-	-	-	-	-	-	-	-	-	-	-
500 employed and over	-	-	-	-	-	-	-	-	-	-	-	-	-
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	17	229	482	1,242	170	18,020	31,265	13,479	-	-	408	2,412	14,197

TABLE 6. Principal Statistics classified by Type of Organization, 1964 and 1965

Type of organization	Establishments	Manufacturing activity						Total activity					
		Production and related workers			Cost of fuel and electricity	Cost of materials and supplies	Value of shipments of goods of own manufacture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
No.		'000			\$'000			\$'000			\$'000		
1964													
Individual ownerships	-	-	-	-	-	-	-	-	-	-	-	-	
Partnerships	-	-	-	-	-	-	-	-	-	-	-	-	
Incorporated companies	15	195	428	1,014	152	13,768	25,191	11,910	-	-	373	2,045	12,386
Co-operatives	-	-	-	-	-	-	-	-	-	-	-	-	-
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	15	195	428	1,014	152	13,768	25,191	11,910	-	-	373	2,045	12,386
1965													
Individual ownerships	-	-	-	-	-	-	-	-	-	-	-	-	-
Partnerships	-	-	-	-	-	-	-	-	-	-	-	-	-
Incorporated companies	17	229	482	1,242	170	18,020	31,265	13,479	-	-	408	2,412	14,197
Co-operatives	-	-	-	-	-	-	-	-	-	-	-	-	-
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	17	229	482	1,242	170	18,020	31,265	13,479	-	-	408	2,412	14,197

TABLE 7. Calculation of Output, Input and Value Added, 1964 and 1965

	Manufacturing activity		Non-manufacturing activities		Total activity	
	1964	1965	1964	1965	1964	1965
\$'000						
Output						
1. Shipments and other revenue	25,191	31,265	1,940	6,360	27,131	37,626
Inventories—Goods of own manufacture:						
Add closing—Goods in process	1,677	1,862	...	...	1,677	1,862
Finished goods	1,337	1,783	...	...	1,337	1,783
Deduct opening—Goods in process	1,519	1,677	...	...	1,519	1,677
Finished goods	856	1,566	...	...	856	1,566
2. Net inventory change	639	402	...	...	639	402
3. Gross output (1 + 2)	25,830	31,667	1,940	6,360	27,770	38,028
Input						
4. Purchases of goods not of own manufacture .....	...	...	1,454	5,710	1,454	5,710
Inventories—Goods not of own manufacture:						
Add opening .....	...	...	104	351	104	351
Deduct closing .....	...	...	131	480	131	460
5. Cost of goods sold (not of own manufacture) .....	...	...	1,427	5,601	1,427	5,601
6. Materials, supplies, etc.	13,768	18,020	37	42	13,805	18,062
7. Fuel and electricity	152	170	...	...	152	170
8. Gross input (5 + 6 + 7)	13,920	18,190	1,464	5,643	15,384	23,833
Value added (3 - 8)	11,910	13,479	476	717	12,386	14,197

TABLE 8. Employment and Payroll, 1964 and 1965

Year and province	Employees										Salaries and wages				
	Production and related workers				Administrative and office		Sales and distribution		Total		Production and related workers		Administrative and office	Sales and distribution	Total
	Manufacturing		Other		Male	Female	Male	Female	Male	Female	Manufacturing	Other			
	Male	Female	Male	Female											
	number										\$'000				
1964															
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec	x	-	-	-	x	x	x	-	x	x	x	-	x	x	x
Ontario	135	-	1	-	58	28	48	-	242	28	692	5	486	304	1,486
Manitoba	x	-	-	-	x	x	x	-	x	x	x	-	x	x	x
Saskatchewan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alberta	x	-	-	-	x	x	-	-	x	x	x	-	x	-	x
British Columbia	x	-	-	-	x	-	-	-	x	x	x	-	x	-	x
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	195	-	1	-	76	38	63	-	335	38	1,014	5	656	370	2,045
1965															
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec	x	-	-	-	x	x	x	-	x	x	x	-	x	x	x
Ontario	162	-	-	-	65	x	43	-	270	x	927	-	604	311	1,842
Manitoba	x	-	-	-	x	x	x	-	x	x	x	-	x	x	x
Saskatchewan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alberta	x	-	-	-	x	x	x	-	x	x	x	-	x	x	x
British Columbia	x	x	-	-	x	-	-	-	x	x	x	-	x	-	x
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	228	x	-	-	84	x	64	-	376	32	1,242	-	769	401	2,412

TABLE 9. Production and Related Workers, - Manufacturing Activity, 1964 and 1965

Month	1964		1965	
	Male	Female	Male	Female
	number			
Establishments reporting monthly detail (large establishments only):				
January	190	-	198	-
February	190	-	195	-
March	190	-	198	-
April	193	-	206	-
May	198	-	223	-
June	207	-	237	-
July	209	-	256	-
August	208	-	249	-
September	191	-	210	-
October	193	-	210	-
November	186	-	214	-
December	187	-	210	-
Averages	195	-	217	-
Establishments reporting annual averages (small establishments only) .....	...	...	11	x
Average for all establishments	195	-	228	x

TABLE 10. Inventories, 1965

Province	Manufacturing				Non-manufacturing	Total inventories
	Materials, supplies, etc.	Goods in process	Finished goods of own manufacture	Total	Products or materials purchased for resale	
book value \$'000						
Opening:						
Newfoundland	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-
New Brunswick	-	-	-	-	-	-
Quebec	x	-	x	x	x	x
Ontario	1,050	1,677	1,057	3,784	301	4,085
Manitoba	x	-	x	x	x	x
Saskatchewan	-	-	-	-	-	-
Alberta	x	-	x	x	-	x
British Columbia	x	-	x	x	-	x
Yukon and Northwest Territories	-	-	-	-	-	-
Totals	2,277	1,677	1,566	5,520	351	5,871
Closing:						
Newfoundland	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-
New Brunswick	-	-	-	-	-	-
Quebec	x	x	x	x	x	x
Ontario	929	1,854	985	3,768	405	4,172
Manitoba	x	-	x	x	x	x
Saskatchewan	-	-	-	-	-	-
Alberta	x	x	x	x	-	x
British Columbia	x	-	x	x	-	x
Yukon and Northwest Territories	-	-	-	-	-	-
Totals	3,073	1,862	1,783	6,718	460	7,178

TABLE 11. Purchased Fuel and Electricity Used, 1964 and 1965

Description	1964		1965	
	Quantity	Cost \$'000	Quantity	Cost \$'000
1. Large establishments reporting commodity detail:				
Bituminous coal:				
(a) From Canadian mines	ton	-	-	-
(b) Imported	"	178	208	2
Sub-bituminous coal (from Alberta mines only)	"	-	-	-
Anthracite coal	"	-	-	-
Lignite coal	"	-	-	-
Coke	"	-	-	-
Gasoline (including gasoline used in cars and trucks)	imp. gal.	51,315	54,117	19
Fuel oil including kerosene or coal oil	"	1,113,918	907,687	73
Wood	cord	-	-	-
Gas:				
(a) Liquefied petroleum gases	imp. gal.	85	356	--
(b) Other manufactured gas	M cu. ft.	-	-	-
(c) Natural gas	"	2,992	17,854	9
Other fuel .....		...	...	--
Electricity purchased	kwh.	3,703,154	5,550,499	61
Steam purchased .....		...	...	2
2. Small establishments not reporting commodity detail:				
Estimate for fuel and electricity .....		...	...	3
3. All establishments:				
Total fuel and electricity used .....		...	...	170

TABLE 12. Materials and Supplies - Manufacturing Activity, 1964 and 1965

Description	1964		1965	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
1. Materials used:				
Oils for blending:				
Canadian Imp. gal.	8,726,253	2,416	6,606,886	2,421
Imported "	13,102,630	4,662	21,378,124	6,907
Grease for blending:				
Imported lb.	446,175	50	516,468	52
Additives for lube oils and greases .....	..	1,717	..	1,545
All other materials and components used ¹ .....	...	1,570	...	4,954
2. Containers and other packaging materials and supplies used .....	...	2,996	...	3,877
3. Operating, maintenance and repair supplies used (excluding fuel) .....	...	264	...	263
4. Amount paid out to others for work done on materials owned by establishments .....	...	93	...	97
Totals .....	...	13,768	...	18,020

¹ No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. These estimated costs were \$98,936 in 1964 and \$90,373 in 1965.

TABLE 13. Shipments of Goods of Own Manufacture, 1964 and 1965

Description	1964		1965	
	Quantity	Value	Quantity	Value
		\$'000		\$'000
1. Products:				
Oils, lubricating Imp. gal.	22,354,139	21,959	27,131,377	25,393
Greases, lubricating lb.	18,814,624	3,063	20,442,108	3,719
All other products .....	...	527	...	2,379
2. Amount received in payment for work done on materials and products owned by others	...	-	...	180
Loss adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above .....	...	(359)	...	(402)
Net adjustment for establishments receiving progress payments .....	...	-	...	-
Total adjusted value of shipments and work done .....	...	25,191	...	31,265

TABLE 14. Net Sales of Lubricating Oils and Greases, 1965¹

	Newfound-land	Maritimes	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Northwest Territories and Yukon	Canada
	barrels of 35 Imperial gallons									
Lubricating oils										
Retail pump outlets	20,146	94,603	310,102	460,183	53,106	58,324	117,929	89,347	821	1,204,561
Aviation	793	448	3,919	5,382	1,619	365	1,992	3,841	713	19,072
Railways	9,446	11,972	67,595	51,408	34,291	1,542	74,865	13,334	118	264,571
Governments, police forces and armed forces	2,894	12,842	9,642	98,663	5,734	2,683	8,799	12,282	692	154,231
Marine (excluding Navy)	7,311	12,716	33,633	7,243	863	5	37	46,217	794	108,819
Farms	3,541	20,860	37,100	60,285	49,334	113,897	89,704	24,329	307	399,357
Other:										
(a) Motor crankcase oils	25,265	29,069	178,069	255,635	23,629	49,190	62,757	126,137	1,276	751,027
(b) Other lubricating oils	19,265	48,500	219,998	566,346	33,343	62,534	92,885	112,558	6,702	1,162,131
Totals	88,661	231,010	860,058	1,505,145	201,919	288,540	448,968	428,045	11,423	4,063,769
Greases										
Retail pump outlets	785	5,271	12,600	17,651	3,228	2,147	3,001	3,500	8	48,191
Aviation	8	8	52	26	9	-	7	23	4	137
Railways	1,265	836	2,779	1,399	1,443	66	1,636	219	-	9,643
Governments, police forces and armed forces	485	581	441	3,577	256	86	743	619	5	6,793
Marine (excluding Navy)	62	85	478	1,092	1	-	8	251	10	1,987
Farms	73	930	1,948	4,754	4,039	10,867	5,259	768	5	28,643
Other	2,633	4,335	26,117	42,471	2,316	3,173	6,313	12,921	178	100,457
Totals	5,311	12,046	44,415	70,970	11,292	16,339	16,967	18,301	210	195,851
Total all sales	93,972	243,056	904,473	1,576,115	213,211	304,879	465,935	446,346	11,633	4,259,620

¹Source: "Refined Petroleum Products Volume II, 1965", issued by Dominion Bureau of Statistics, Catalogue No. 45-203 (Annually).

List of Establishments classified to this Industry, 1965

(Does not include establishments classified to other industries, which as a secondary activity, manufacture products typical of this industry)

Name	Location
Quebec:	
Shell Canada Ltd.	6010 Notre Dame St. E., Montreal
Tide Water Oil Company (Canada) Ltd.	50 de Louvain St. W., Montreal
Ontario:	
Campbell Lubricating Specialties Ltd.	414 Eastern Ave., Toronto
Canadian D.A. Stuart Oil Co. Ltd.	43 Upton Rd., Scarborough
Houghton, E.F. and Co. Canada Ltd.	100 Symes Rd., Toronto
Kendall Refining Co. of Canada Ltd.	2 Bradpenn Rd., Toronto
Kerns Lubricants Ltd.	280 Midwest Rd., Scarborough
Ontario Lubricating Co. Ltd., The	120 Chatham St., Hamilton
Shell Canada Ltd.	500 Commissioners St., Toronto
Stone Oil Co. Ltd.	115 Unwin Ave., Toronto
Texaco Canada Limited	51 Commissioner St., Toronto
Tide Water Oil Company (Canada) Ltd.	55 Wade Ave., Toronto
Manitoba:	
Tide Water Oil Company (Canada) Ltd.	471 Madison St., Winnipeg
Alberta:	
Jet-Lube of Canada Ltd.	9925 - 77th Ave. S.W., Edmonton
SI. Oil Refineries	34th St. & 98th Ave., Edmonton
British Columbia:	
Star Oil Refining Co. Ltd.	1651 Island Hwy., Victoria
Wills Oil Co. Ltd.	533 Powell St., Vancouver

CONCEPTS AND DEFINITIONS

Census of Manufactures

General

The Census of Manufactures is an annual mail survey covering Canada's Manufacturing Industries. It is based on the Standard Classification of Industries and full details concerning the system may be found in the Standard Industrial Classification manual, Catalogue No. 12-501 which is available from the Queen's Printer or the Dominion Bureau of Statistics. In summary, the Classification as it relates to the manufacturing industries provides for a breakdown into 140 industries arranged in 20 major industry groups. Of the 140 (3 digit) industries, 18 are further broken down into 55 (4 digit) sub classes. At the Canada level, principal statistics are collected and compiled for 176 separate industries. They cannot all be published separately by province, however, because of the confidential nature of the data in certain provinces.

The reporting unit for the Census is designated as the **establishment** (see definition of "Establishment" in following section) and a return is requested from every establishment classified to a manufacturing industry. Although respondents are required to submit reports covering the calendar year, financial year reports other than the calendar year are accepted in instances where respondents find it impossible to supply calendar year data from accounting records. When an establishment is operated for only part of a year a report is required covering the period of operation.

There are four different questionnaires used in the Census of Manufactures; (a) short form (b) long form (c) head office questionnaire and (d) commodity questionnaire. The short and long forms are used to obtain principal statistics and commodities shipped from establishments classified to manufacturing industries and differ only in the amount of detail requested. The short form is a single-sheet questionnaire sent to small manufacturers generally reporting shipments of less than \$100,000; this cut-off, however, varies somewhat between industries. The head office questionnaire is generally used for company head offices and/or auxiliary units separately located from the manufacturing establishment(s), (see following notes on Head offices and auxiliary units). The Commodity questionnaire is used to survey certain establishments which are coded (on the basis of their principal activity) to industries other than manufacturing in the Standard Industrial Classification system, but which undertake some manufacturing as a subsidiary activity. This single-sheet questionnaire is designed to collect information on the quantity and value of goods of own manufacture shipped by such establishments in order to achieve full coverage of domestically manufactured commodities (see the following note under Shipments).

The results of the Census are presented in some 135 publications. In addition to these annual industry publications there are annual summary reports for Canada and the provinces and special reports giving principal statistics by detailed geographic areas, by type of ownership and size of establishment. A special annual report covering the shipments of all manufactured commodities arranged in alphabetical order is also published.

Since 1960 the following major changes have been implemented in the Census of Manufactures; (a) a revised Standard Industrial Classification (b) a new establishment definition and (c) an extension of the establishment definition to cover the non-manufacturing activities of manufacturing establishments. The statistics presented in the reports reflect the complete implementation of these changes and enable comparisons to be made back to and including 1961. For a complete description of the procedures followed in establishing the revised series, reference should be made to the Explanatory Notes included in the 1960, 1961 and 1962 industry publications. The statistical framework within which the Census of Manufactures is now carried out is based on the following concepts and definitions which have been developed as part of a general programme to achieve a fully integrated system of economic statistics.

Establishment

A manufacturing establishment is typically a factory, mill or plant principally engaged in manufacturing activities. The majority of such establishments are firms but many firms have more than one establishment. Such firms are requested to submit a separate Census of Manufactures report for each manufacturing establishment which can meet the reporting requirements embodied in the following definition of the "establishment":

"The smallest unit which is a separate operating entity capable of reporting the following principal statistics:

- Materials and supplies used
- Goods purchased for resale as such
- Fuel and power consumed
- Number of employees and salaries and wages
- Man-hours worked and paid
- Inventories
- Shipments or sales."

Each establishment is required to report on all the activities carried out within its accounting boundaries (except income from investments such as rent, interest and dividends) and data on the different activities (manufacturing, trading in goods not of own manufacture, construction by own labour

force, revenue from services, etc.) are requested to be reported separately. It should be noted that the statistics for separate activities are not completely consistent since some respondents cannot distinguish, in their records, materials, shipments and inventories relating solely to their own manufacturing activities. For example, inventory of goods purchased for re-sale may not be distinguishable from inventory of own manufactured goods. Complete consistency, therefore, can be obtained only at the "all operations" (total activity) level and for studies or statistical measures requiring accurate coordinated data, the "total" statistics should be used.

The number of establishments represents the number of operating units that are principally engaged in the activities of the manufacturing industries to which they have been classified. These units do not necessarily represent the total number engaged in the production of a commodity mainly produced in a certain industry. Some commodities are produced as secondary products in other manufacturing and non-manufacturing industries. It should be noted that head offices and auxiliary units which are surveyed separately are not included in the establishment count, (see following notes on head offices and auxiliary units).

Head Offices and Auxiliary Units

All head offices and auxiliary units of companies classified to the manufacturing industries such as sales offices, administrative offices, warehouses, laboratories, etc. are now surveyed as part of the Census of Manufactures.

These head offices and auxiliary units are either included in an establishment report or are surveyed by means of the head office questionnaire. The former is the most common case where a single establishment firm has its executive personnel, sales office, etc. located at the site of the manufacturing plant (establishment). The special head office questionnaire is generally used where a firm, regardless of the number of establishments, has separately located offices or auxiliary units. Such offices or units do not constitute establishments within the Census of Manufactures as they do not normally generate operational revenues, but give rise only to costs of operations (mainly salaries and wages) which are automatically included in the value of shipments or sales. Although not considered as establishments, and hence, not included in the "establishment" count for an industry, the operational costs are reflected in either the "Industry" statistics (3 or 4 digit level) or the "Major group" statistics (2 digit level) according to the following rules:

(a) In the case of single establishment firms, statistics for separately located offices and units are classified to the same industry (3 or 4 digit) as the establishment;

(b) In the case of multi-establishment firms, the statistics for such offices and units are coded to the same industry as the establishments of the firm, when all establishments are in the same industry (3 or 4 digit). When establishments of

such firms are coded (1) to different industries within a major group, (2) to industries in different major groups or (3) to industries in different divisions of the Standard Industrial Classification, then the statistics are included in the major group totals (2 digit level) in which the major part of the company's operations are classified. Although this may result in some distortion of major group statistics in the case of (2) and (3) the statistics at the industry (3 or 4 digit) level in all cases will be left free of these company-wide data.

Employees

(a) Production and related workers – Manufacturing activities

In addition to those engaged in production and assembling activities, they include those employed in storing, inspecting, handling, packing, warehousing, etc. They also include employees engaged in maintenance, repair, janitorial and watchman services and line supervisors (working foremen) engaged in similar work to that of the employees they supervise. For those establishments reporting on the "long" form, production and related workers engaged in manufacturing activity are reported as those receiving pay during the last pay period of each month, an average for the year being obtained by summing the monthly figures and dividing by 12. This procedure is followed even though the establishment did not operate in all months in order to arrive at equivalent annual full-time employment. The numbers are somewhat affected by turnover, in that employment is overstated when an employee changes employment during a pay period. In the case of those establishments reporting on the "short" form, respondents are requested to report average annual figures. The man-hours of production and related workers in manufacturing activity represent total man-hours paid (total hours at work during the calendar year plus hours not worked but nevertheless paid for, such as paid vacations, sick leave, statutory holidays, etc.). Data on man-hours are not collected from establishments reporting on the short form. Man-hours for these establishments are estimated on the basis of ratios derived from the 1958 census. During this census all establishments reported on the long form. In reporting overtime hours, respondents are requested to report only hours actually at work. It should be noted that the division of hours paid into production and related workers payrolls results in average hourly earnings and does not represent hourly wage rates which are collected and published by the Department of Labour and which are based on selected occupations.

(b) Production and related workers – Non-manufacturing activities

Such employees include those on manufacturing establishments' payrolls engaged in activities such as construction undertaken for the use of these establishments, some outside piece-workers employed in certain industries, logging employees who are reported as part of a sawmilling establishment and any other production workers who are not engaged in manufacturing-type operations.

(c) Administrative and office employees

This category includes all executive and supervisory officials such as presidents, vice-presidents, comptrollers, secretaries, treasurers, etc., together with managers, professional, technical and research employees, superintendents and factory supervisors above the line supervisor or working foreman level, and clerical staffs. Also included are employees in activities such as advertising, credit collections, purchasing, personnel, legal, medical, etc. It should be noted that prior to 1961 this category also included working owners and partners. Also included in this category are employees located at head offices or auxiliary units separately located from the establishment; these are generally included in the figures for the province in which they are located according to the rules outlined under "Head offices and auxiliary units" above.

(d) Sales and distribution workers

This category includes office personnel whose salaries are charged to selling expense, travelling salesmen, driver salesmen, truckdrivers and their helpers, etc. It may also include some sales employees who are reported as part of a manufacturing establishment but are not working at the establishment's location. These are generally broken down by province in cases where more than 15 employees are involved in any one province. The figures exclude persons working on a commission basis who are not considered regular employees of the establishment.

(e) Total Employees

This total comprises the foregoing categories including employees located at separately located head offices and auxiliary units. The numbers of employees included under categories (b), (c) and (d) are reported in the form of annual averages and represent as closely as possible full time employment; adjustments are made when reported figures indicate the existence of part time or seasonal employment. In all the above categories, figures on employment refer to the calendar year whether or not other establishment statistics can only be reported on a fiscal year other than the calendar year.

Working Owners or Partners

These are not now included in the statistics of employees and salaries and wages. There is some duplication in numbers when a person owns more than one establishment and is reported as a working owner on each Census return. Withdrawals of working owners are defined as amounts withdrawn by owners or partners for normal living expenses excluding withdrawals for payment of income tax.

Salaries and Wages

Salaries and wages refer to gross earnings of employees before deductions for income tax and employees contributions to social services such as sickness, accident and unemployment insurance, pensions, etc. They include all salaries, wages,

bonuses, profits shared with employees, the value of room and board where provided, commissions (paid to regular employees only) as well as any other allowance forming part of the worker's earnings. Payments for over-time are included. Figures on salaries and wages refer to the calendar year.

Fuel and Electricity

Figures for fuel refer to amounts actually used (including fuel used in cars, trucks, locomotives, etc.), not to purchases unless the quantities are substantially the same. **Any fuel and electricity produced by establishments for internal consumption are not included in the total cost.** Values represent laid down cost at the establishment including freight, duty, etc. Although fuel and electricity used is considered part of manufacturing activity it should be noted that it also includes relatively small amounts used in non-manufacturing activities since these cannot be reported separately.

Materials and Supplies

(a) Manufacturing activities

Figures represent quantities and laid down cost values, at the establishment, of materials, supplies and purchased components owned and used during the year in manufacturing activities and related processes. These statistics represent only commodity items or physical goods (cost of services or overhead charges such as advertising, insurance, depreciation, etc. are not included) whether purchased from others or received as transfers (in the form of materials, components or semi-processed goods) from other establishments of the reporting company. Included are maintenance and repair supplies not chargeable to fixed assets accounts and any amounts charged by other establishments for work done on materials owned by the reporting establishment. Cost of repairs or maintenance done by outside contractors and cost of returnable containers are not included.

(b) Non-manufacturing activities

1. Purchases for re-sale as such

Figures represent cost of materials or products purchased from others by the reporting establishment (or received as transfers from other establishments of the reporting company) for re-sale as such in the same condition as purchased. Included are any finished products received on consignment from other countries.

2. Other materials and supplies used

Figures represent the cost of materials and supplies, if any, used in new construction and in the production of machinery and equipment (for the use of the reporting establishment) by the establishment's own employees. Included are materials used for any capital repairs and alterations carried out by the establishment's employees. Amounts paid to outside contractors for construction and repair work are not included nor is the cost of

purchased machinery and equipment. Also included is the cost of office supplies not chargeable to fixed assets accounts and the cost of such other items of materials and supplies used as food, beverages and supplies for establishment-operated cafeterias and lunch counters, first aid and medical supplies, laboratory supplies, etc.

Shipments

(a) General

The figures represent revenue from all production, sales, services and related activities of reporting establishments with shipments valued in Canadian dollars at the point at which the establishment relinquishes control. The unsold portion at year end of consignment shipments in Canada is treated as inventory and not as shipments but all shipments to foreign countries for which the form B13 "Customs Canada Export Entry" has been completed, are treated as shipments.

In those industries where work on principal products extends over a relatively long period, (Fabricated Structural Metal Industry, Aircraft and Parts Manufacturers, Railroad Rolling Stock Industry and Shipbuilding and Repair Industry) the value of production rather than the value of shipments is recorded. There are certain establishments in other industries which also operate on a basis of progress payments. For these establishments, shipments are also adjusted to work put in place on the basis of the net change in progress payments over the year.

(b) Shipments of goods of own manufacture

These figures represent 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 establishments for work done. Included are revenue from repair and custom work, amounts received in payment for work done on materials owned by other establishments and the cost (book value) of any goods shipped on a rental basis.

All products and by-products of own manufacture shipped from the establishment are covered, including transfer shipments to sales outlets, distributing warehouses or to other manufacturing plants of the reporting firm, when such units are treated as separate establishments. The value of shipments are net of returned goods, discounts, returns, allowances, sales tax and excise taxes and duties, returnable containers and charges for outward transportation by common or contract carriers. Transportation or delivery expense incurred by the reporting establishment's own carriers are included.

Shipments of goods of own manufacture of establishments which are coded to some other division of the Standard Industrial Classification (on the basis of principal activity) but which are engaged in manufacturing as a subsidiary activity

are collected by means of the Commodity questionnaire referred to earlier. Such shipments together with shipments of goods of own manufacture of establishments forming the universe of manufacturing industries are compiled and recorded in the various industry publications.

(c) Shipments of goods not of own manufacture

These figures represent the net selling value at establishment (net of discounts, returns, allowances, sales taxes and excise duties and taxes and transportation charges by common or contract carriers) of all products or materials (including products transferred from other establishments of the reporting firm) sold as such in the same condition as purchased or received as transfers. For those industries which ship such goods on a rental basis, the value of shipments represents the book value of these goods. All sales of consignment goods from other countries are included.

(d) Other revenue

Figures represent the book value of fixed assets, if any, (new construction and machinery and equipment including major repairs, alterations, additions, modifications, installation and assembly work) produced during the year for the use of reporting establishments by the establishment's own employees and for which depreciation accounts are maintained. Included also are any revenues from the sale of electricity and from any operations performed by the establishment's own employees, such as revenue from goods produced or purchased for rental (the book value of such goods are included as part of shipments of goods of own manufacture or shipments of goods not of own manufacture), servicing revenues, commissions on sales (when not included in value of sales), revenue for company-operated cafeterias and lunch counters and revenue from outside installation or construction work not related to the establishment's own products, sale of used materials (excluding sale of used fixed assets) research and development work, etc. As mentioned previously the figures do not include non-operating revenue such as rent, dividends, interest, etc.

Inventories

(a) Manufacturing activities

Values represent the book values of manufacturing inventory owned in Canada. Inventories held for which progress payments have been received are not included. Where progress payment accounts are maintained, the change in these accounts is treated as a net adjustment to shipments. Figures consist of inventory owned at the plant and at warehouses or selling outlets which are treated as extensions of establishments for the purpose of reporting shipments. Inventory owned in transit in Canada or on consignment in Canada is included. Goods shipped abroad and held in inventory are included in shipments. Opening inventories may differ from the closing inventories of the previous year because of changes in classification, the

receipt of revised data, the inclusion of new establishments and the removal of establishments which did not operate during the survey year.

(b) Non-manufacturing activities

Figures represent the book value of inventory of goods purchased for re-sale as such without further processing, owned by the reporting establishments and held at plants and at any warehouses or selling outlets which are treated as extensions of establishments. Other characteristics are the same as in (a) above.

Value Added

(a) By manufacturing activities

Figures are compiled by deducting the cost of manufacturing materials, supplies, etc. and fuel and electricity consumed from the (value of shipments of goods of own manufacture adjusted for changes in the value of inventories of finished goods and goods in process).

(b) By non-manufacturing activities

The figures are compiled by deducting the cost of goods purchased for re-sale (adjusted for changes in the value of inventories of goods pur-

chased for re-sale) and the cost of non-manufacturing materials and supplies used from the value of shipments of goods not of own manufacture, plus other revenue.

(c) By Total activities

The figures consist of value added by manufacturing activities plus value added by non-manufacturing activities. This total value added figure may, in some cases, be less than value added by manufacturing activities as a result of expenditures associated with non-manufacturing exceeding revenues from such activities or because of a decrease in inventory of goods not of own manufacture exceeding the mark-up on the sale of such goods. "Value added" is sometimes referred to as net output or net production. However, to arrive at the National Accounts concept of net production, or Gross Domestic Product at "Factor cost" it would be necessary to subtract also the cost of advertising, insurance and other business expenses which are not collected as part of the annual Census of Manufactures. "Value added" figures for the primary industries, manufacturing and construction are published in DBS publication Catalogue No. 61-202, "Survey of Production".

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