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PETROLEUM REFINERIES  
1963

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

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# PETROLEUM REFINERIES

1963

## SECTION 1. PETROLEUM REFINERIES, 1963

Data presented in this report under the heading of Petroleum Refineries reflect implementation of the revised Standard Industrial Classification (S.I.C.) and the New Establishment Concept which are being used by the Dominion Bureau of Statistics in its industry statistics compilations—see items "Standard Industrial Classification" and "Establishment" in the Explanatory Notes section of this report.

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.

**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 A. Principal Statistics classified by Province, 1962 and 1963

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		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
No.		'000			'000				'000		'000		
<b>1961</b>													
<b>Totals</b> .....	<b>57</b>	<b>7,406</b>	<b>15,844</b>	<b>41,527</b>	<b>10,968</b>	<b>911,693</b>	<b>1,200,612</b>	<b>280,726</b>	<b>x</b>	<b>x</b>	<b>10,991</b>	<b>64,768</b>	<b>281,989</b>
<b>1962</b>													
Newfoundland .....	1												
Prince Edward Island .....	-												
Nova Scotia .....	1	2,445	5,287	14,438	3,196	401,495	516,270	109,502	-	-	3,479	21,679	110,054
New Brunswick .....	1												
Quebec .....	8												
Ontario .....	16	2,150	4,622	12,723	2,460	311,577	399,480	86,549	-	-	3,196	19,928	87,223
Manitoba .....	5	305	658	1,854	466	39,392	51,764	12,256	x	x	687	3,523	12,364
Saskatchewan .....	6	626	1,313	3,429	1,037	59,355	76,218	16,000	-	-	869	5,045	16,086
Alberta .....	11	873	1,897	5,117	1,895	85,434	113,807	25,618	-	-	1,228	7,604	25,898
British Columbia .....	8												
Yukon and Northwest Territories	1	725	1,608	4,357	1,390	96,754	116,926	23,585	-	-	1,076	6,814	24,804
<b>Totals</b> .....	<b>58</b>	<b>7,124</b>	<b>15,385</b>	<b>41,918</b>	<b>10,444</b>	<b>994,007</b>	<b>1,274,286</b>	<b>273,509</b>	<b>x</b>	<b>x</b>	<b>10,535</b>	<b>64,593</b>	<b>276,429</b>
<b>1963</b>													
Newfoundland .....	1	x	x	x	x	x	x	x	-	-	x	x	x
Prince Edward Island .....	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia .....	1	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	1,783	3,896	11,157	2,780	338,808	417,452	80,724	-	-	2,562	16,891	81,271
Ontario .....	16	2,132	4,525	12,857	2,588	345,333	420,155	82,840	-	-	3,085	19,873	83,492
Manitoba .....	4	324	687	1,891	504	39,830	55,221	13,326	-	-	766	3,789	13,735
Saskatchewan .....	6	617	1,310	3,530	918	62,647	82,864	19,357	-	-	835	5,044	19,555
Alberta .....	9	790	1,691	4,774	1,921	93,648	124,608	28,046	-	-	1,121	7,150	28,449
British Columbia .....	8	680	1,461	4,121	1,266	89,685	116,651	23,588	-	-	978	6,349	24,155
Yukon and Northwest Territories	1	x	x	x	x	x	x	x	-	-	x	x	x
<b>Totals</b> .....	<b>55</b>	<b>6,905</b>	<b>14,930</b>	<b>41,752</b>	<b>10,882</b>	<b>1,069,805</b>	<b>1,344,872</b>	<b>274,824</b>	<b>-</b>	<b>-</b>	<b>10,088</b>	<b>63,692</b>	<b>278,526</b>

TABLE 1 B. Principal Statistics classified by Size Groups based on Shipments of Goods of Own Manufacture, 1962 and 1963

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		Total employees		Total value added	
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages		
No.		'000			\$'000			\$'000		\$'000				
<b>1962</b>														
Under \$10,000	}	3	3	5	7	--	15	42	26	x	x	4	10	26
\$ 10,000 to \$ 24,999		3	2	4	7	3	54	166	112	--	--	10	62	111
25,000 " 49,999		3	11	21	40	4	31	243	104	--	--	24	118	121
50,000 " 99,999		3	17	34	65	30	557	974	413	--	--	49	245	434
100,000 " 199,999		3	29	61	122	14	1,192	2,090	966	--	--	72	387	987
200,000 " 499,999	4	40	79	168	70	1,500	2,691	715	--	--	78	390	763	
500,000 " 999,999	9	307	707	1,611	469	16,918	22,464	5,991	--	--	431	2,299	6,337	
1,000,000 " 4,999,999	35	6,743	14,537	40,028	9,860	974,827	1,247,769	266,237	--	--	9,940	61,489	268,747	
5,000,000 and over	35	6,743	14,537	40,028	9,860	974,827	1,247,769	266,237	--	--	9,940	61,489	268,747	
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Totals</b>	<b>58</b>	<b>7,124</b>	<b>15,385</b>	<b>41,918</b>	<b>10,444</b>	<b>994,007</b>	<b>1,274,266</b>	<b>273,509</b>	<b>x</b>	<b>x</b>	<b>10,535</b>	<b>64,593</b>	<b>276,429</b>	
<b>1963</b>														
Under \$10,000	}	3	3	7	8	--	9	41	27	--	--	8	23	27
\$ 10,000 to \$ 24,999		3	11	21	40	4	31	243	104	--	--	24	118	121
25,000 " 49,999		3	17	34	65	30	557	974	413	--	--	49	245	434
50,000 " 99,999		3	29	61	122	14	1,192	2,090	966	--	--	72	387	987
100,000 " 199,999		3	29	61	122	14	1,192	2,090	966	--	--	72	387	987
200,000 " 499,999	8	271	615	1,468	413	16,244	22,067	5,532	--	--	378	2,074	5,982	
500,000 " 999,999	35	6,574	14,192	40,048	10,421	1,051,773	1,319,457	267,781	--	--	9,557	60,844	270,974	
1,000,000 " 4,999,999	35	6,574	14,192	40,048	10,421	1,051,773	1,319,457	267,781	--	--	9,557	60,844	270,974	
5,000,000 and over	35	6,574	14,192	40,048	10,421	1,051,773	1,319,457	267,781	--	--	9,557	60,844	270,974	
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Totals</b>	<b>55</b>	<b>6,905</b>	<b>14,930</b>	<b>41,752</b>	<b>10,882</b>	<b>1,069,805</b>	<b>1,344,872</b>	<b>274,824</b>	<b>--</b>	<b>--</b>	<b>10,088</b>	<b>63,692</b>	<b>278,526</b>	

TABLE 1 C. Principal Statistics classified by Size Groups based on Manufacturing Value Added, 1962 and 1963

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		Total employees		Total value added	
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages		
No.		'000			\$'000			\$'000		\$'000				
<b>1962</b>														
Under \$10,000	}	4	4	7	9	2	30	72	40	x	x	6	18	40
\$ 10,000 to \$ 24,999		4	19	28	67	60	381	1,025	228	--	--	35	152	261
25,000 " 49,999		5	37	79	139	43	1,481	2,163	666	--	--	91	437	699
50,000 " 99,999		6	168	346	784	330	7,290	9,455	1,958	--	--	282	1,412	2,085
100,000 " 199,999		3	155	363	926	100	11,178	13,371	2,607	--	--	222	1,294	2,606
200,000 " 499,999	18	1,750	3,837	10,355	3,405	225,233	277,935	52,429	--	--	2,708	16,053	54,183	
500,000 " 999,999	18	4,991	10,726	29,638	6,503	748,414	970,245	215,582	--	--	7,191	45,228	216,556	
1,000,000 " 4,999,999	18	4,991	10,726	29,638	6,503	748,414	970,245	215,582	--	--	7,191	45,228	216,556	
5,000,000 and over	18	4,991	10,726	29,638	6,503	748,414	970,245	215,582	--	--	7,191	45,228	216,556	
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Totals</b>	<b>58</b>	<b>7,124</b>	<b>15,385</b>	<b>41,918</b>	<b>10,444</b>	<b>994,007</b>	<b>1,274,266</b>	<b>273,509</b>	<b>x</b>	<b>x</b>	<b>10,535</b>	<b>64,593</b>	<b>276,429</b>	
<b>1963</b>														
Under \$10,000	}	3	3	7	8	--	9	41	27	--	--	8	23	27
\$ 10,000 to \$ 24,999		4	14	28	51	7	229	534	195	--	--	36	166	220
25,000 " 49,999		3	23	46	82	29	831	1,240	440	--	--	61	290	482
50,000 " 99,999		4	88	193	397	52	4,601	5,945	1,362	--	--	149	708	1,538
100,000 " 199,999		5	184	422	1,034	311	8,893	12,798	3,557	--	--	252	1,487	3,832
200,000 " 499,999	15	1,389	2,973	8,251	2,809	190,883	235,760	42,605	--	--	2,224	12,965	44,578	
500,000 " 999,999	21	5,204	11,262	31,928	7,672	864,361	1,088,554	226,637	--	--	7,358	48,052	227,853	
1,000,000 " 4,999,999	21	5,204	11,262	31,928	7,672	864,361	1,088,554	226,637	--	--	7,358	48,052	227,853	
5,000,000 and over	21	5,204	11,262	31,928	7,672	864,361	1,088,554	226,637	--	--	7,358	48,052	227,853	
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Totals</b>	<b>55</b>	<b>6,905</b>	<b>14,930</b>	<b>41,752</b>	<b>10,882</b>	<b>1,069,805</b>	<b>1,344,872</b>	<b>274,824</b>	<b>--</b>	<b>--</b>	<b>10,088</b>	<b>63,692</b>	<b>278,526</b>	

TABLE 1 D. Principal Statistics classified by Size Groups based on Total Value Added, 1962 and 1963

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		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
No.		'000			\$'000				\$'000		\$'000		
<b>1962</b>													
Under \$10,000	4	4	7	9	2	30	72	40	x	x	6	18	40
\$ 10,000 to \$ 24,999	4	6	9	16	5	222	371	155	-	-	22	100	154
25,000 "	6	50	98	190	98	1,640	2,816	740	-	-	104	488	806
50,000 "	6	168	346	784	330	7,290	9,455	1,958	-	-	282	1,412	2,085
100,000 "	3	155	363	926	100	11,178	13,371	2,607	-	-	222	1,294	2,606
200,000 "	18	1,750	3,837	10,355	3,405	225,233	277,935	52,429	-	-	2,708	16,053	54,183
500,000 "	18	4,991	10,726	29,638	6,503	748,414	970,245	215,582	-	-	7,191	45,228	216,556
1,000,000 "	18	4,991	10,726	29,638	6,503	748,414	970,245	215,582	-	-	7,191	45,228	216,556
5,000,000 and over	18	4,991	10,726	29,638	6,503	748,414	970,245	215,582	-	-	7,191	45,228	216,556
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Totals</b>	<b>58</b>	<b>7,124</b>	<b>15,385</b>	<b>41,918</b>	<b>10,444</b>	<b>994,007</b>	<b>1,274,266</b>	<b>273,509</b>	<b>x</b>	<b>x</b>	<b>10,535</b>	<b>64,593</b>	<b>276,429</b>
<b>1963</b>													
Under \$10,000	3	3	7	8	--	9	41	27	-	-	8	23	27
\$ 10,000 to \$ 24,999	4	14	28	51	7	229	534	195	-	-	36	166	220
25,000 "	3	23	46	82	29	831	1,240	440	-	-	61	290	482
50,000 "	4	88	193	397	52	4,601	5,945	1,362	-	-	149	708	1,538
100,000 "	4	130	273	685	282	7,409	10,236	2,558	-	-	189	1,069	2,566
200,000 "	15	1,300	2,819	7,800	2,589	174,371	214,759	38,611	-	-	2,095	12,246	40,786
500,000 "	22	5,347	11,564	32,728	7,921	882,356	1,112,117	231,631	-	-	7,550	49,189	232,905
1,000,000 "	22	5,347	11,564	32,728	7,921	882,356	1,112,117	231,631	-	-	7,550	49,189	232,905
5,000,000 and over	22	5,347	11,564	32,728	7,921	882,356	1,112,117	231,631	-	-	7,550	49,189	232,905
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Totals</b>	<b>55</b>	<b>6,905</b>	<b>14,930</b>	<b>41,752</b>	<b>10,882</b>	<b>1,069,805</b>	<b>1,344,872</b>	<b>274,824</b>	<b>-</b>	<b>-</b>	<b>10,088</b>	<b>63,692</b>	<b>278,526</b>

TABLE 1 E. Principal Statistics classified by Size Groups based on Total Employed, 1962 and 1963

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		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
No.		'000			\$'000				\$'000		\$'000		
<b>1962</b>													
Under 5 employed	5	4	7	9	2	44	154	113	x	x	9	50	112
5- 14 employed	4	22	35	80	62	843	1,576	337	-	-	40	159	380
15- 49 "	12	266	604	1,348	305	17,204	23,977	7,390	-	-	410	2,179	7,847
50- 99 "	5	247	562	1,485	721	34,756	41,735	7,420	-	-	352	2,180	8,298
100-199 "	13	1,225	2,700	7,169	2,333	172,555	223,195	51,096	-	-	1,858	11,471	51,159
200-499 "	15	3,053	6,366	17,843	5,088	435,060	557,623	115,249	-	-	4,508	26,896	116,572
500 employed and over	4	2,307	5,111	13,983	1,933	333,545	426,006	91,505	-	-	3,358	21,656	92,061
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Totals</b>	<b>58</b>	<b>7,124</b>	<b>15,385</b>	<b>41,918</b>	<b>10,444</b>	<b>904,007</b>	<b>1,274,266</b>	<b>273,509</b>	<b>x</b>	<b>x</b>	<b>10,535</b>	<b>64,593</b>	<b>276,429</b>
<b>1963</b>													
Under 5 employed	7	12	26	42	9	580	1,047	455	-	-	35	143	474
5- 14 employed	10	183	384	953	189	13,735	17,870	4,363	-	-	312	1,720	4,568
15- 49 "	8	442	1,000	2,455	932	53,632	68,803	14,011	-	-	591	3,469	15,509
50- 99 "	14	1,520	3,243	9,161	3,247	216,738	289,977	66,607	-	-	2,196	14,103	66,725
100-199 "	12	2,506	5,452	15,437	4,875	442,713	538,703	97,569	-	-	3,793	23,319	99,053
200-499 "	4	2,242	4,826	13,703	1,630	342,407	428,474	91,819	-	-	3,161	20,939	92,197
500 employed and over	4	2,242	4,826	13,703	1,630	342,407	428,474	91,819	-	-	3,161	20,939	92,197
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Totals</b>	<b>55</b>	<b>6,905</b>	<b>14,930</b>	<b>41,752</b>	<b>10,882</b>	<b>1,069,805</b>	<b>1,344,872</b>	<b>274,824</b>	<b>-</b>	<b>-</b>	<b>10,088</b>	<b>63,692</b>	<b>278,526</b>



TABLE 1 F. Principal Statistics classified by Type of Organization, 1962 and 1963

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		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
No.		'000			\$'000			\$'000			\$'000		
1962													
Individual ownerships .....	} 58	7,124	15,385	41,918	10,444	994,007	1,274,266	273,509	x	x	10,535	64,593	276,429
Partnerships .....													
Incorporated companies .....													
Cooperatives .....	-	-	-	-	-	-	-	-	-	-	-	-	-
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Totals .....</b>	<b>58</b>	<b>7,124</b>	<b>15,385</b>	<b>41,918</b>	<b>10,444</b>	<b>994,007</b>	<b>1,274,266</b>	<b>273,509</b>	<b>x</b>	<b>x</b>	<b>10,535</b>	<b>64,593</b>	<b>276,429</b>
1963													
Individual ownerships .....	-	-	-	-	-	-	-	-	-	-	-	-	-
Partnerships .....	-	-	-	-	-	-	-	-	-	-	-	-	-
Incorporated companies .....	55	6,905	14,930	41,752	10,882	1,069,805	1,344,872	274,824	-	-	10,088	63,692	278,526
Cooperatives .....	-	-	-	-	-	-	-	-	-	-	-	-	-
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Totals .....</b>	<b>55</b>	<b>6,905</b>	<b>14,930</b>	<b>41,752</b>	<b>10,882</b>	<b>1,069,805</b>	<b>1,344,872</b>	<b>274,824</b>	<b>-</b>	<b>-</b>	<b>10,088</b>	<b>63,692</b>	<b>278,526</b>

TABLE 2. Industry Output, Input and Value Added, 1962 and 1963

	Manufacturing activity		Non-manufacturing activities		Total activity	
	1962	1963	1962	1963	1962	1963
\$'000						
<b>Output</b>						
1. Shipments and other revenue .....	1,274,266	1,344,872	35,534	41,093	1,309,800	1,385,965
<b>Inventories - Goods of own manufacture:</b>						
Add closing - Goods in process .....	23,197	22,927	...	...	23,197	22,927
Finished goods .....	118,191	127,880	...	...	118,191	127,880
Less opening - Goods in process .....	21,495	22,253	...	...	21,495	22,253
Finished goods .....	116,199	117,914	...	...	116,199	117,914
2. Net inventory change .....	3,694	10,640	...	...	3,694	10,640
3. Gross output (1 + 2) .....	1,277,960	1,355,512	35,534	41,093	1,313,494	1,396,605
<b>Input</b>						
4. Purchases of goods not of own manufacture .....	...	...	29,451	34,884	29,451	34,884
<b>Inventories - Goods not of own manufacture:</b>						
Add opening .....	...	...	3,992	3,970	3,992	3,970
Less closing .....	...	...	3,731	4,282	3,731	4,282
5. Cost of goods sold (not of own manufacture) .....	...	...	29,712	34,572	29,712	34,572
6. Materials, supplies, components and semi-processed goods	994,007	1,069,805	2,901	2,819	996,908	1,072,624
7. Fuel and electricity .....	10,444	10,882	...	...	10,444	10,882
8. Gross input (5 + 6 + 7) .....	1,004,451	1,080,687	32,613	37,391	1,037,064	1,118,078
<b>Census value added (3 - 8) .....</b>	<b>273,509</b>	<b>274,824</b>	<b>2,920</b>	<b>3,702</b>	<b>276,429</b>	<b>278,526</b>



TABLE 3. Employment and Payroll, 1962 and 1963

Year and province	Employees										Salaries and wages				
	Production and related workers				Adminis- trative and office		Sales and distribution		Total employees		Production and related workers		Adminis- trative and office	Sales and distri- bution	Total salaries and wages
	Manufacturing		Other		Male	Female	Male	Female	Male	Female	Manufacturing	Other			
	Male	Female	Male	Female									Male	Female	Male
	number										\$'000				
1962															
Newfoundland .....															
Prince Edward Island .....															
Nova Scotia .....	2,433	12	49	-	822	133	30	-	3,334	145	14,438	266	6,840	135	21,679
New Brunswick .....															
Quebec .....															
Ontario .....	2,121	29	58	-	815	131	42	-	3,036	160	12,723	331	6,590	284	19,978
Manitoba .....	305	-	5	-	105	15	232	25	647	40	1,854	31	831	807	3,523
Saskatchewan .....	625	1	10	-	188	19	28	-	849	20	3,429	63	1,437	115	5,045
Alberta .....	671	2	7	-	297	51	-	-	1,175	53	5,117	36	2,450	-	7,604
British Columbia .....															
Yukon and Northwest Terri- tories .....	717	8	2	-	278	38	32	1	1,029	47	4,357	9	2,300	148	6,814
<b>Totals .....</b>	<b>7,072</b>	<b>52</b>	<b>131</b>	<b>-</b>	<b>2,505</b>	<b>387</b>	<b>362</b>	<b>26</b>	<b>10,070</b>	<b>465</b>	<b>41,918</b>	<b>738</b>	<b>20,448</b>	<b>1,489</b>	<b>64,593</b>
1963															
Newfoundland .....	x	-	-	-	x	x	-	-	x	x	x	-	x	-	x
Prince Edward Island .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia .....	x	x	x	-	x	x	-	-	x	x	x	x	x	-	x
New Brunswick .....	x	x	-	-	x	x	-	-	x	x	x	-	x	-	x
Quebec .....	1,780	3	33	-	646	91	9	-	2,468	94	11,157	184	5,509	41	16,891
Ontario .....	2,102	30	40	-	744	125	44	-	2,930	155	12,857	233	6,464	320	19,873
Manitoba .....	324	-	20	-	113	43	241	25	698	68	1,891	75	964	859	3,789
Saskatchewan .....	613	4	14	-	173	19	12	-	812	23	3,530	89	1,376	49	5,044
Alberta .....	788	2	6	-	279	46	-	-	1,073	48	4,774	39	2,337	-	7,151
British Columbia .....	680	-	2	-	252	31	12	1	946	32	4,121	11	2,147	70	6,348
Yukon and Northwest Terri- tories .....	x	x	x	-	x	x	-	-	x	x	x	x	x	-	x
<b>Totals .....</b>	<b>6,852</b>	<b>53</b>	<b>118</b>	<b>-</b>	<b>2,349</b>	<b>372</b>	<b>318</b>	<b>26</b>	<b>9,637</b>	<b>451</b>	<b>41,752</b>	<b>646</b>	<b>19,955</b>	<b>1,339</b>	<b>63,692</b>

TABLE 3A. Production and Related Workers, - Manufacturing Activity, by Months, 1962 and 1963

Month	Establishments reporting monthly detail			
	1962		1963	
	Male	Female	Male	Female
	number			
January .....	7,052	57	6,795	49
February .....	7,072	56	6,768	50
March .....	7,060	54	6,789	48
April .....	7,081	55	6,839	52
May .....	7,250	57	7,018	54
June .....	7,240	55	7,118	56
July .....	7,414	51	7,274	54
August .....	7,243	54	7,189	60
September .....	7,016	49	6,718	51
October .....	6,858	47	6,602	47
November .....	6,834	45	6,609	46
December .....	8,745	48	6,506	52
Average for establishments reporting monthly detail (collected only for large establishments) ..	7,072	52	6,852	53
Average for small establishments (only annual averages collected) .....	...	...	...	...
Average for all establishments .....	7,072	52	6,852	53

TABLE 4. Industry Inventories, 1963

Province	Manufacturing				Non-manufacturing	Total inventories
	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total manufacturing	Products or materials purchased for resale	
book value \$'000						
Opening:						
Newfoundland .....	x	—	x	x	x	x
Prince Edward Island .....	—	—	—	—	—	—
Nova Scotia .....	x	x	x	x	x	x
New Brunswick .....	x	x	x	x	—	x
Quebec .....	18,260	5,654	35,085	58,999	1,187	60,186
Ontario .....	29,050	9,245	32,898	71,193	763	71,956
Manitoba .....	1,580	374	6,449	8,403	357	8,760
Saskatchewan .....	1,977	576	10,275	12,828	6	12,834
Alberta .....	1,852	1,610	11,941	15,403	204	15,607
British Columbia .....	5,430	2,141	12,748	20,319	555	20,874
Yukon and Northwest Territories .....	x	—	x	x	—	x
<b>Totals .....</b>	<b>60,883</b>	<b>22,253</b>	<b>117,914</b>	<b>201,050</b>	<b>3,970</b>	<b>205,020</b>
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 .....	17,772	5,691	39,908	63,371	849	64,220
Ontario .....	29,109	9,652	43,097	81,858	915	82,773
Manitoba .....	1,438	142	5,120	6,700	431	7,131
Saskatchewan .....	2,480	532	10,376	13,388	7	13,395
Alberta .....	2,781	1,498	11,060	15,339	148	15,487
British Columbia .....	5,260	1,895	10,881	18,036	472	18,508
Yukon and Northwest Territories .....	—	—	x	x	—	x
<b>Totals .....</b>	<b>62,232</b>	<b>22,927</b>	<b>127,880</b>	<b>213,039</b>	<b>4,282</b>	<b>217,321</b>

TABLE 5. Purchased Fuel and Electricity Used in Manufacturing Activity, 1962 and 1963

Description	1962		1963	
	Quantity	Cost \$'000	Quantity	Cost \$'000
1. Large establishments which reported commodity detail:				
Bituminous coal:				
(a) From Canadian mines .....	ton	—	—	—
(b) Imported .....	"	225	156	2
Sub-bituminous coal (from Alberta mines only) .....	"	—	—	—
Anthracite coal .....	"	—	—	—
Lignite coal .....	"	—	—	—
Coke .....	"	—	—	—
Gasoline (including gasoline used in cars and trucks) .....	Imp. gal.	119,797	127,225	44
Fuel oil including kerosene or coal oil .....	"	976,158	969,456	76
Wood .....	cord	—	—	—
Gas:				
(a) Liquefied petroleum gases .....	Imp. gal.	2,665	16,000	3
(b) Other manufactured gas .....	M cu.ft.	83,100	—	—
(c) Natural gas .....	"	7,568,175	8,762,071	1,953
Other fuel .....	...	...	...	2
Electricity purchased .....	kwh.	1,238,669,310	1,278,023,744	8,516
Steam purchased .....	...	...	...	285
2. Estimate for small establishments:				
Fuel and electricity .....	—	—	—	—
3. All establishments:				
<b>Total fuel and electricity used .....</b>	...	<b>10,444</b>	...	<b>10,882</b>

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.

As of 1962, statistics for the Petroleum Refining sub-industry do not include the operations of a small refinery in New Brunswick. Details relating to the latter are now (1962) being included with the Petroleum and Gas Wells industry (S.I.C. Industry No. 063).

TABLE 1 A. Principal Statistics classified by Province, 1962 and 1963

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		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
No.		'000			\$'000			\$'000		\$'000			
<b>1961</b>													
Totals .....	44	7,220	15,462	40,687	10,820	899,836	1,183,508	275,604	-	-	10,660	63,140	276,723
<b>1962</b>													
Newfoundland .....	1												
Prince Edward Island .....	-												
Nova Scotia .....	1	2,397	5,182	14,217	3,163	397,949	510,577	107,378	-	-	3,405	21,343	107,832
New Brunswick .....	1												
Quebec .....	6												
Ontario .....	7	2,013	4,337	12,079	2,334	303,142	384,318	79,418	-	-	2,942	18,559	79,983
Manitoba .....	3	299	650	1,841	463	39,203	51,513	12,190	-	-	672	3,476	12,298
Saskatchewan .....	6	626	1,313	3,429	1,037	59,355	76,218	16,000	-	-	869	5,045	16,086
Alberta .....	10	872	1,895	5,113	1,893	85,409	113,553	25,592	-	-	1,223	7,582	25,872
British Columbia .....	6	723	1,603	4,351	1,388	96,736	116,889	23,567	-	-	1,073	6,803	24,787
Yukon and Northwest Territories	1												
Totals .....	42	6,930	14,980	41,030	10,278	981,793	1,253,068	264,146	-	-	10,184	62,808	266,857
<b>1963</b>													
Newfoundland .....	1	x	x	x	x	x	x	x	-	-	x	x	x
Prince Edward Island .....	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia .....	1	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	1,735	3,795	10,933	2,746	334,787	411,210	78,442	-	-	2,484	16,517	78,882
Ontario .....	7	1,996	4,240	12,196	2,474	337,038	404,076	75,631	-	-	2,832	18,478	76,184
Manitoba .....	3	321	681	1,879	500	39,632	54,929	13,236	-	-	754	3,741	13,636
Saskatchewan .....	6	617	1,310	3,530	918	62,863	82,864	19,357	-	-	835	5,044	19,555
Alberta .....	8	789	1,689	4,770	1,919	93,623	124,544	28,009	-	-	1,117	7,130	28,401
British Columbia .....	6	676	1,453	4,110	1,264	69,677	116,602	23,552	-	-	971	6,331	24,118
Yukon and Northwest Territories	1	x	x	x	x	x	x	x	-	-	x	x	x
Totals .....	40	6,713	14,527	40,840	10,727	1,057,259	1,322,143	265,170	-	-	9,734	61,835	268,644



TABLE 1B. Principal Statistics classified by Size Groups based on Shipments of Goods of Own Manufacture, 1962 and 1963

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		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
No.		'000			\$'000			\$'000		\$'000			
<b>1962</b>													
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-	-	
\$ 10,000 to \$ 24,999	-	-	-	-	-	-	-	-	-	-	-	-	
25,000 "	-	-	-	-	-	-	-	-	-	-	-	-	
50,000 "	-	-	-	-	-	-	-	-	-	-	-	-	
100,000 "	-	-	-	-	-	-	-	-	-	-	-	-	
200,000 "	-	-	-	-	-	-	-	-	-	-	-	-	
500,000 "	-	-	-	-	-	-	-	-	-	-	-	-	
1,000,000 " 4,999,999	9	305	693	1,593	513	15,905	21,588	5,632	-	-	402	2,155	5,954
5,000,000 and over	33	6,625	14,287	39,437	9,765	965,888	1,231,481	258,514	-	-	9,782	60,653	260,903
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Totals</b>	<b>42</b>	<b>6,930</b>	<b>14,980</b>	<b>41,030</b>	<b>10,278</b>	<b>981,793</b>	<b>1,253,068</b>	<b>264,146</b>	-	-	<b>10,184</b>	<b>62,808</b>	<b>266,857</b>
<b>1963</b>													
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-	-	
\$ 10,000 to \$ 24,999	-	-	-	-	-	-	-	-	-	-	-	-	
25,000 "	-	-	-	-	-	-	-	-	-	-	-	-	
50,000 "	-	-	-	-	-	-	-	-	-	-	-	-	
100,000 "	-	-	-	-	-	-	-	-	-	-	-	-	
200,000 "	-	-	-	-	-	-	-	-	-	-	-	-	
500,000 "	-	-	-	-	-	-	-	-	-	-	-	-	
1,000,000 " 4,999,999	7	257	584	1,404	401	14,893	20,360	5,207	-	-	337	1,876	5,577
5,000,000 and over	33	6,456	13,943	39,436	10,326	1,042,365	1,301,784	259,963	-	-	9,397	59,959	263,067
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Totals</b>	<b>40</b>	<b>6,713</b>	<b>14,527</b>	<b>40,840</b>	<b>10,727</b>	<b>1,057,259</b>	<b>1,322,143</b>	<b>265,170</b>	-	-	<b>9,734</b>	<b>61,835</b>	<b>268,644</b>

TABLE 1C. Principal Statistics classified by Size Groups based on Manufacturing Value Added, 1962 and 1963

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		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
No.		'000			\$'000			\$'000		\$'000			
<b>1962</b>													
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-	-	
\$ 10,000 to \$ 24,999	-	-	-	-	-	-	-	-	-	-	-	-	
25,000 "	-	-	-	-	-	-	-	-	-	-	-	-	
50,000 "	-	-	-	-	-	-	-	-	-	-	-	-	
100,000 "	-	-	-	-	-	-	-	-	-	-	-	-	
200,000 "	-	-	-	-	-	-	-	-	-	-	-	-	
500,000 "	-	-	-	-	-	-	-	-	-	-	-	-	
1,000,000 " 4,999,999	5	152	304	702	365	5,907	7,805	1,251	-	-	221	1,069	1,357
5,000,000 and over	3	155	363	926	100	11,178	13,371	2,607	-	-	222	1,294	2,606
Head offices, sales offices and auxiliary units	17	1,712	3,758	10,174	3,377	222,181	272,874	50,417	-	-	2,659	15,818	52,080
	17	4,911	10,555	29,227	6,436	742,527	959,018	209,671	-	-	7,082	44,627	210,814
<b>Totals</b>	<b>42</b>	<b>6,930</b>	<b>14,980</b>	<b>41,030</b>	<b>10,278</b>	<b>981,793</b>	<b>1,253,068</b>	<b>264,146</b>	-	-	<b>10,184</b>	<b>62,808</b>	<b>266,857</b>
<b>1963</b>													
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-	-	
\$ 10,000 to \$ 24,999	-	-	-	-	-	-	-	-	-	-	-	-	
25,000 "	-	-	-	-	-	-	-	-	-	-	-	-	
50,000 "	-	-	-	-	-	-	-	-	-	-	-	-	
100,000 "	-	-	-	-	-	-	-	-	-	-	-	-	
200,000 "	-	-	-	-	-	-	-	-	-	-	-	-	
500,000 "	-	-	-	-	-	-	-	-	-	-	-	-	
1,000,000 " 4,999,999	6	238	542	1,273	341	11,423	15,503	3,746	-	-	312	1,703	4,126
5,000,000 and over	14	1,350	2,891	8,056	2,778	187,334	230,075	40,440	-	-	2,170	12,683	42,330
Head offices, sales offices and auxiliary units	20	5,125	11,095	31,511	7,608	858,502	1,076,566	220,984	-	-	7,252	47,449	222,188
<b>Totals</b>	<b>40</b>	<b>6,713</b>	<b>14,527</b>	<b>40,840</b>	<b>10,727</b>	<b>1,057,259</b>	<b>1,322,143</b>	<b>265,170</b>	-	-	<b>9,734</b>	<b>61,835</b>	<b>268,644</b>



TABLE 1 D. Principal Statistics classified by Size Groups based on Total Value Added, 1962 and 1963

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		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
No.		'000			'000			'000		'000			
<b>1962</b>													
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-	-	
\$ 10,000 to \$ 24,999	-	-	-	-	-	-	-	-	-	-	-	-	
25,000 "	-	-	-	-	-	-	-	-	-	-	-	-	
50,000 "	-	-	-	-	-	-	-	-	-	-	-	-	
100,000 "	-	-	-	-	-	-	-	-	-	-	-	-	
200,000 "	5	152	304	702	365	5,907	7,805	1,281	-	221	1,069	1,357	
500,000 "	3	155	363	926	100	11,178	13,371	2,607	-	222	1,294	2,606	
1,000,000 "	17	1,712	3,758	10,174	3,377	222,181	272,874	50,417	-	2,659	15,818	52,080	
5,000,000 and over	17	4,911	10,555	29,227	6,436	742,527	959,018	209,871	-	7,082	44,627	210,814	
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...	
<b>Totals</b>	<b>42</b>	<b>6,930</b>	<b>14,980</b>	<b>41,030</b>	<b>10,278</b>	<b>981,793</b>	<b>1,253,068</b>	<b>264,146</b>	<b>-</b>	<b>10,184</b>	<b>62,808</b>	<b>266,857</b>	
<b>1963</b>													
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-	-	
\$ 10,000 to \$ 24,999	-	-	-	-	-	-	-	-	-	-	-	-	
25,000 "	-	-	-	-	-	-	-	-	-	-	-	-	
50,000 "	-	-	-	-	-	-	-	-	-	-	-	-	
100,000 "	-	-	-	-	-	-	-	-	-	-	-	-	
200,000 "	5	184	394	924	312	9,940	12,941	2,746	-	249	1,285	2,860	
500,000 "	14	1,261	2,737	7,605	2,558	170,823	209,074	36,446	-	2,041	11,964	38,544	
1,000,000 "	21	5,268	11,397	32,311	7,857	876,496	1,100,129	225,977	-	7,444	48,586	227,240	
5,000,000 and over	...	...	...	...	...	...	...	...	...	...	...	...	
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...	
<b>Totals</b>	<b>40</b>	<b>6,713</b>	<b>14,527</b>	<b>40,840</b>	<b>10,727</b>	<b>1,057,259</b>	<b>1,322,143</b>	<b>265,170</b>	<b>-</b>	<b>9,734</b>	<b>61,835</b>	<b>268,644</b>	

TABLE 1 E. Principal Statistics classified by Size Groups based on Total Employed, 1962 and 1963

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		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
No.		'000			'000			'000		'000			
<b>1962</b>													
Under 5 employed	-	-	-	-	-	-	-	-	-	-	-	-	
5- 14 employed	6	178	411	960	270	11,765	15,736	4,187	-	217	1,204	4,508	
15- 49 "	5	247	562	1,485	721	34,756	41,735	7,420	-	352	2,180	8,298	
50- 99 "	12	1,145	2,529	6,758	2,266	166,868	211,968	45,385	-	1,749	10,871	45,417	
100-199 "	15	3,053	6,366	17,843	5,088	435,060	557,623	115,249	-	4,508	26,896	116,572	
200-499 "	4	2,307	5,111	13,983	1,933	333,545	426,006	91,905	-	3,358	21,656	92,061	
500 employed and over	...	...	...	...	...	...	...	...	...	...	...	...	
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...	
<b>Totals</b>	<b>42</b>	<b>6,930</b>	<b>14,980</b>	<b>41,030</b>	<b>10,278</b>	<b>981,793</b>	<b>1,253,068</b>	<b>264,146</b>	<b>-</b>	<b>10,184</b>	<b>62,808</b>	<b>266,857</b>	
<b>1963</b>													
Under 5 employed	-	-	-	-	-	-	-	-	-	-	-	-	
5- 14 employed	4	121	256	696	138	11,177	13,861	2,982	-	153	891	3,067	
15- 49 "	7	403	918	2,260	901	50,083	63,118	11,846	-	537	3,187	13,267	
50- 99 "	13	1,441	3,075	8,744	3,183	210,878	277,988	60,954	-	2,090	13,500	61,060	
100-199 "	12	2,506	5,452	15,437	4,675	442,713	538,703	97,569	-	3,793	23,319	99,053	
200-499 "	4	2,242	4,826	13,703	1,830	342,407	428,474	91,819	-	3,161	20,939	92,197	
500 employed and over	...	...	...	...	...	...	...	...	...	...	...	...	
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...	
<b>Totals</b>	<b>40</b>	<b>6,713</b>	<b>14,527</b>	<b>40,840</b>	<b>10,727</b>	<b>1,057,259</b>	<b>1,322,143</b>	<b>265,170</b>	<b>-</b>	<b>9,734</b>	<b>61,835</b>	<b>268,644</b>	

TABLE 1 F. Principal Statistics classified by Type of Organization, 1962 and 1963

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		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
No.		'000			\$'000				\$'000		\$'000		
<b>1962</b>													
Individual ownerships .....	-	-	-	-	-	-	-	-	-	-	-	-	
Partnerships .....	-	-	-	-	-	-	-	-	-	-	-	-	
Incorporated companies .....	42	6,930	14,980	41,030	10,278	981,793	1,253,068	264,146	-	-	10,184	62,808	266,857
Cooperatives .....	-	-	-	-	-	-	-	-	-	-	-	-	-
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Totals .....</b>	<b>42</b>	<b>6,930</b>	<b>14,980</b>	<b>41,030</b>	<b>10,278</b>	<b>981,793</b>	<b>1,253,068</b>	<b>264,146</b>	<b>-</b>	<b>-</b>	<b>10,184</b>	<b>62,808</b>	<b>266,857</b>
<b>1963</b>													
Individual ownerships .....	-	-	-	-	-	-	-	-	-	-	-	-	-
Partnerships .....	-	-	-	-	-	-	-	-	-	-	-	-	-
Incorporated companies .....	40	6,713	14,527	40,840	10,727	1,057,259	1,322,143	265,170	-	-	9,734	61,835	268,644
Cooperatives .....	-	-	-	-	-	-	-	-	-	-	-	-	-
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Totals .....</b>	<b>40</b>	<b>6,713</b>	<b>14,527</b>	<b>40,840</b>	<b>10,727</b>	<b>1,057,259</b>	<b>1,322,143</b>	<b>265,170</b>	<b>-</b>	<b>-</b>	<b>9,734</b>	<b>61,835</b>	<b>268,644</b>

TABLE 2. Industry Output, Input and Value Added, 1962 and 1963

	Manufacturing activity		Non-manufacturing activities		Total activity	
	1962	1963	1962	1963	1962	1963
\$'000						
<b>Output</b>						
1. Shipments and other revenue .....	1,253,068	1,322,143	34,663	40,291	1,287,731	1,362,434
Inventories - Goods of own manufacture:						
Add closing - Goods in process .....	20,282	21,326	...	...	20,282	21,326
Finished goods .....	117,484	127,131	...	...	117,484	127,131
Less opening - Goods in process .....	19,146	20,282	...	...	19,146	20,282
Finished goods .....	115,473	117,163	...	...	115,473	117,163
2. Net inventory change .....	3,147	11,012	...	...	3,147	11,012
3. Gross output (1+2) .....	1,256,216	1,333,155	34,663	40,291	1,290,879	1,373,446
<b>Input</b>						
4. Purchases of goods not of own manufacture .....	...	...	28,822	34,329	28,822	34,329
Inventories - Goods not of own manufacture:						
Add opening .....	...	...	3,907	3,889	3,907	3,889
Less closing .....	...	...	3,650	4,196	3,650	4,196
5. Cost of goods sold (not of own manufacture) .....	...	...	29,079	34,022	29,079	34,022
6. Materials, supplies, components and semi-processed goods .....	981,793	1,057,259	2,874	2,794	984,667	1,060,053
7. Fuel and electricity .....	10,278	10,727	...	...	10,278	10,727
8. Gross input (5+6+7) .....	992,071	1,067,986	31,953	36,816	1,024,024	1,104,802
<b>Census value added (3-8) .....</b>	<b>264,146</b>	<b>265,170</b>	<b>2,710</b>	<b>3,475</b>	<b>266,857</b>	<b>268,644</b>

TABLE 3. Employment and Payroll, 1962 and 1963

Year and province	Employees										Salaries and wages				
	Production and related workers				Adminis-trative and office		Sales and distribution		Total employees		Production and related workers		Admin-istrative and office	Sales and distri-bution	Total salaries and wages
	Manufacturing		Other		Male	Female	Male	Female	Male	Female	Manufact-uring	Other			
	Male	Female	Male	Female											
	number										\$'000				
1962															
Newfoundland .....															
Prince Edward Island .....															
Nova Scotia .....	2,385	12	49	-	811	128	20	-	3,265	140	14,217	266	6,768	94	21,344
New Brunswick .....															
Quebec .....															
Ontario .....	1,984	29	55	-	761	113	-	-	2,800	142	12,079	328	6,153	-	18,559
Manitoba .....	299	-	5	-	104	13	226	25	634	38	1,841	31	820	783	3,476
Saskatchewan .....	625	1	10	-	188	19	28	-	849	20	3,429	63	1,437	115	5,045
Alberta .....	870	2	7	-	295	49	-	-	1,172	51	5,113	38	2,432	-	7,582
British Columbia .....															
Yukon and Northwest Terri-tories .....	715	8	2	-	277	38	32	1	1,026	47	4,351	9	2,295	148	6,803
<b>Totals .....</b>	<b>6,878</b>	<b>52</b>	<b>128</b>	<b>-</b>	<b>2,436</b>	<b>360</b>	<b>304</b>	<b>26</b>	<b>9,746</b>	<b>438</b>	<b>41,030</b>	<b>735</b>	<b>19,904</b>	<b>1,140</b>	<b>62,808</b>
1963															
Newfoundland .....	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
New Brunswick .....	x	x	x	-	x	x	-	-	x	x	x	x	x	-	x
Quebec .....	1,732	3	33	-	631	85	-	-	2,396	88	10,933	184	5,400	-	16,517
Ontario .....	1,966	30	39	-	693	104	-	-	2,698	134	12,196	231	6,051	-	18,478
Manitoba .....	321	-	20	-	112	41	235	25	688	66	1,897	75	952	835	3,741
Saskatchewan .....	613	4	14	-	173	19	12	-	812	23	3,530	89	1,376	49	5,044
Alberta .....	787	2	6	-	277	45	-	-	1,070	47	4,770	39	2,320	-	7,130
British Columbia .....	676	-	2	-	250	30	12	1	940	31	4,110	11	2,140	70	6,331
Yukon and Northwest Terri-tories .....	x	x	x	-	x	x	-	-	x	x	x	x	x	-	x
<b>Totals .....</b>	<b>6,660</b>	<b>53</b>	<b>117</b>	<b>-</b>	<b>2,278</b>	<b>341</b>	<b>259</b>	<b>26</b>	<b>9,314</b>	<b>420</b>	<b>40,840</b>	<b>645</b>	<b>19,396</b>	<b>954</b>	<b>61,635</b>

TABLE 3A. Production and Related Workers, - Manufacturing Activity, by Months, 1962 and 1963

Month	Establishments reporting monthly detail			
	1962		1963	
	Male	Female	Male	Female
	number			
January .....	6,862	57	6,610	49
February .....	6,884	56	6,583	50
March .....	6,868	54	6,604	48
April .....	6,887	55	6,654	52
May .....	7,050	57	6,821	54
June .....	7,039	55	6,919	56
July .....	7,209	51	7,072	54
August .....	7,043	54	6,991	60
September .....	6,825	49	6,524	51
October .....	6,672	47	6,410	47
November .....	6,646	45	6,416	46
December .....	6,561	48	6,314	52
Average for establishments reporting monthly detail (collected only for large establishments)..	6,878	52	6,660	53
Average for small establishments (only annual averages collected) .....	...	...	...	...
Average for all establishments .....	6,878	52	6,660	53

TABLE 4. Industry Inventories, 1963

Province	Manufacturing				Non-manufacturing	Total inventories
	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total manufacturing	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	x
Quebec .....	17,242	5,608	34,897	57,748	1,174	58,922
Ontario .....	28,810	7,366	32,347	68,523	705	69,228
Manitoba .....	1,569	329	6,449	8,348	348	8,696
Saskatchewan .....	1,977	576	10,275	12,827	6	19,184
Alberta .....	1,842	1,610	11,935	15,387	204	15,591
British Columbia .....	5,430	2,141	12,742	20,314	555	20,869
Yukon and Northwest Territories .....	x	x	x	x	x	x
<b>Totals .....</b>	<b>59,604</b>	<b>20,282</b>	<b>117,163</b>	<b>197,049</b>	<b>3,889</b>	<b>200,938</b>
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	x
Quebec .....	16,377	5,610	39,661	61,648	833	62,481
Ontario .....	28,895	8,178	42,601	79,674	850	80,524
Manitoba .....	1,426	97	5,120	6,643	425	7,068
Saskatchewan .....	2,480	532	10,376	13,389	7	20,648
Alberta .....	2,771	1,498	11,055	15,324	148	15,472
British Columbia .....	5,259	1,895	10,880	18,035	472	18,507
Yukon and Northwest Territories .....	x	x	x	x	x	x
<b>Totals .....</b>	<b>60,600</b>	<b>21,326</b>	<b>127,131</b>	<b>209,057</b>	<b>4,196</b>	<b>213,253</b>

TABLE 5. Purchased Fuel and Electricity Used in Manufacturing Activity, 1962 and 1963

Description	1962		1963	
	Quantity	Cost \$'000	Quantity	Cost \$'000
1. Large establishments which reported 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.	44,748	15	51,180
Fuel oil including kerosene or coal oil .....	"	18,037	6	11,810
Wood .....	cord	—	—	—
Gas:				
(a) Liquefied petroleum gases .....	Imp. gal.	—	—	—
(b) Other manufactured gas .....	M cu.ft.	83,100	43	—
(c) Natural gas .....	"	7,587,206	1,688	8,760,559
Other fuel .....		—	—	—
Electricity purchased .....	kwh.	1,235,186,948	8,314	1,274,234,543
Steam purchased .....		...	211	...
2. Estimate for small establishments:				
Fuel and electricity .....		—	—	—
3. All establishments:				
<b>Total fuel and electricity used .....</b>		...	<b>10,278</b>	...



TABLE 6. Materials and Supplies - Manufacturing Activity, 1962 and 1963

Description	1962		1963	
	Quantity	Cost \$'000	Quantity	Cost \$'000
<b>1. Materials used:</b>				
Crude oil in its natural state, from Canadian wells .....	bbl. 168,583,068	495,960	178,080,016	534,678
Absorption gasoline, etc., from Canadian wells (run to stills) .....	" 6,439,620	18,431	4,470,096	13,377
Crude oil, in its natural state, imported, (run to stills):				
From United States .....	" 1,314	3	-	-
From South America .....	" 91,736,194	258,204	94,013,437	264,230
From other countries .....	" 41,718,989	113,730	52,355,093	140,223
Crude, oil not in its natural state (run to stills) .....	" 624,368	3,652	754,173	4,412
Benzol .....	" 44,914	507	37,240	366
Alkylate and cumene .....	" 603,177	4,788	344,240	2,522
Phenol .....	lb. 271,280	38	980,908	118
Sulphuric acid, 100% .....	" 25,686,582	354	24,442,831	354
Ammonia, anhydrous .....	" 603,048	65	557,236	56
Sulphur .....	" 371,960	21	321,242	14
Caustic soda .....	" 23,290,807	893	25,369,499	961
Soda ash .....	" 1,110,009	37	1,225,312	40
Litharge .....	" 212,052	29	194,600	28
Fuller's earth, bentonite and other clays .....	ton 783	42	2,379	172
Tetraethyl fluid .....	lb. 50,396,064	17,982	50,492,196	18,310
Dyes for gasoline .....	" 119	"	"	119
Inhibitor .....	" 975	"	"	849
Fluid catalytic cracking unit catalysts (Aerocat, Nalcat, Filtrol 100, FCCU catalysts, etc.) .....	" 4,873	"	"	5,635
Reforming or polymerization catalysts .....	" 1,293	"	"	1,203
Additives .....	" 3,047	"	"	3,716
All other materials and components used .....	" 30,347	"	"	37,938
<b>2. Containers and other packaging materials and supplies used .....</b>	...	8,610	...	8,557
<b>3. Operating, maintenance and repair supplies used (excluding fuel) .....</b>	...	13,547	...	14,369
<b>4. Amount paid out to others for work done on materials owned by establishments .....</b>	...	4,265	...	5,010
<b>Totals .....</b>	...	<b>981,793</b>	...	<b>1,057,259</b>

TABLE 7. Shipments of Goods of Own Manufacture, 1962 and 1963

Description	1962			1963		
	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
<b>1. Products:</b>						
<b>Gasoline (excluding imported casing head-blended):</b>						
Aviation gasoline .....	1,539,803	1,559,368	11,069	1,660,197	1,630,661	10,928
Motor gasoline .....	111,032,529	112,138,926	574,046	116,265,159	116,518,194	586,682
Naphtha specialties .....	658,104	663,199	3,758	740,146	691,932	4,028
Aviation turbine fuel .....	6,816,966	6,788,386	24,463	7,393,588	7,479,183	27,210
Kerosene, stove oil (No. 1 fuel oil) and tractor fuel .....	17,899,523	17,672,440	80,923	19,050,047	18,715,544	84,335
Diesel fuel .....	31,617,258	30,487,787	123,406	33,721,225	32,531,002	131,766
Light fuel oils (Nos. 2 and 3) .....	52,598,223	53,618,312	217,933	59,228,816	59,000,352	238,535
Heavy fuel oils (Nos. 4, 5, and 6) .....	56,420,606	43,974,229	96,123	59,047,611	46,076,300	101,385
Lubricating oil and grease .....	2,600,228	2,654,301	40,150	2,823,253	2,815,250	43,420
Asphalt .....	9,641,545	9,366,011	27,028	10,117,071	9,963,751	29,661
Petroleum coke .....	" 969,526	"	1,871	" 958,251	"	1,812
Petrochemical feed stocks .....	6,197,653	6,122,412	17,427	6,957,948	6,661,747	19,346
Liquefied petroleum gases .....	5,146,870	4,737,525	12,929	5,034,563	4,408,687	11,692
All other products .....	...	...	25,774	...	...	32,136
<b>2. Amount received in payment for work done on materials and products owned by others .....</b>	...	...	758	...	...	2,009
<b>Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above .....</b>	...	...	(4,587)	...	...	(2,800)
<b>Net adjustment for establishments receiving progress payments .....</b>	-	-	-	-	-	-
<b>Total adjusted value of shipments and work done .....</b>	...	...	<b>1,253,068</b>	...	...	<b>1,322,140</b>

TABLE 8. Stocks on Hand at the Refineries at the End of December 31, 1963

	Quantity
	barrels
Crude oil and naphtha, in its natural state, from Canadian wells .....	4,098,113
Absorption gasoline, etc., from Canadian wells .....	113,947
Crude oil, imported:	
In its natural state .....	5,332,630
Not in its natural state .....	155,372
<b>Total crude</b> .....	<b>9,700,062</b>
Naphtha specialties .....	342,040
Aviation gasoline .....	10,917,150
Motor gasoline .....	243,425
Aviation turbine fuel .....	619,065
Kerosene, stove oil (No. 1 fuel) and tractor fuel .....	2,242,410
Diesel fuel .....	3,742,281
Light fuel oils (Nos. 2 and 3) .....	8,734,234
Heavy fuel oils (Nos. 4, 5, and 6) .....	4,702,031
Lubricating oils and greases .....	495,667
Liquefied petroleum gases (propane, butane, etc.) .....	305,470
Petroleum coke .....	126,183

TABLE 9. Refinery Production<sup>1</sup> of Gasoline, 1954-63

Year	Motor gasoline	Aviation gasoline	Total
1954 .....	68,535,671	493,790	69,029,461
1955 .....	76,674,069	735,706	77,409,775
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	1,280,440	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

<sup>1</sup> Includes production made for own use.

TABLE 10. Number and Total Capacity of Petroleum Refineries in Operation, December 31, 1960-63

Province	1960		1961		1962		1963	
	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
Nova Scotia .....	1	45,000	1	45,000	1	50,000	1	50,000
New Brunswick .....	2	41,800	2	41,800	1	41,500	1	41,500
Quebec .....	6	292,000	6	303,000	6	303,000	6	312,700
Ontario .....	7	265,900	7	267,900	7	277,900	7	275,990
Manitoba .....	3	33,200	3	38,100	3	38,100	3	39,200
Saskatchewan .....	6	63,950	6	70,390	6	70,800	6	71,310
Alberta .....	11	92,200	11	91,620	10	93,970	8	88,770
British Columbia .....	7	99,500	7	101,000	6	97,500	6	88,350
Northwest Territories .....	1	1,350	1	1,500	1	1,500	1	1,900
<b>Canada</b> .....	<b>44</b>	<b>934,900</b>	<b>44</b>	<b>960,310</b>	<b>42</b>	<b>982,770</b>	<b>40</b>	<b>978,220</b>

Note: 1 barrel = 35 Imperial gallons.

TABLE 11. Consumption of Crude Oil in Petroleum Refineries, showing Canadian and Imported Separately, 1954 - 63

Year	Canadian <sup>1</sup>	Imported	Total
		barrels	
1954	93,237,497	77,797,198	171,034,695
1955	108,336,326	86,719,894	195,056,220
1956	125,576,963	105,738,257	231,315,220
1957	128,017,186	110,836,969	238,854,155
1958	133,547,168	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

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

List of Establishments classified to This Industry, 1963

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

Name	Location
<b>Newfoundland:</b>	
Golden Eagle Refining Co. of Canada Ltd.	St. John's
<b>Nova Scotia:</b>	
Imperial Oil Limited	Imperoyal
<b>New Brunswick:</b>	
Irving Refining Limited	Saint John
<b>Quebec:</b>	
B.P. Refinery Canada Limited	Ville D'Anjou
British American Oil Co. Limited	Montreal East
Imperial Oil Limited	Montreal East
Shell Canada Ltd.	Montreal East
Texaco Canada Limited	Montreal East
Canadian Petrofina Ltd.	Pointe Aux Trembles
<b>Ontario:</b>	
British American Oil Co. Limited	Clarkson
Canadian Husky Oil Ltd.	Fort William
Canadian Oil Companies Limited	Corunna
Cities Services Refining (Canada) Limited	Oakville
Imperial Oil Limited	Sarnia
Sun Oil Company Limited	Sarnia
Texaco Canada Limited (Regent Refining Div.)	Port Credit
<b>Manitoba:</b>	
Anglo-Canadian Oils Ltd	Brandon
Imperial Oil Limited	East St. Paul
Shell Canada Limited	St. Boniface
<b>Saskatchewan:</b>	
British American Oil Co. Limited	Moose Jaw
Canadian Husky Oil Ltd.	Moose Jaw
Consumers' Co-operative Refineries Limited	Regina
Imperial Oil Limited	Regina
Northern Petroleum Corporation Ltd.	Kamsack
Royalite Oil Co. Ltd	Saskatoon
<b>Alberta:</b>	
British American Oil Co. Limited	Calgary, Edmonton
Canadian Husky Oil Ltd.	Lloydminster
Canadian Oil Companies Limited	Bowden
Imperial Oil Limited	Calgary, Edmonton
Shell Canada Limited	Grande Prairie
Texaco Canada Limited	Edmonton
<b>British Columbia:</b>	
British American Oil Co., Limited	Port Moody
Imperial Oil Limited	loco
Royalite Oil Co. Ltd.	Kamloops
Shell Canada Ltd.	North Burnaby
Standard Oil Company of British Columbia Ltd.	North Burnaby
Pacific Petroleum Ltd.	Dawson Creek
<b>Northwest Territories:</b>	
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.

TABLE 1A. Principal Statistics classified by Province, 1962 and 1963

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		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Number 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													
Newfoundland .....	--	--	--	--	--	--	--	--	--	--	--	--	--
Prince Edward Island .....	--	--	--	--	--	--	--	--	--	--	--	--	--
Nova Scotia .....	--	--	--	--	--	--	--	--	--	--	--	--	--
New Brunswick .....	--	--	--	--	--	--	--	--	--	--	--	--	--
Quebec .....	2	x	x	x	x	x	x	x	--	--	x	x	x
Ontario .....	9	137	285	645	126	6,436	15,162	7,130	--	--	254	1,369	7,240
Manitoba .....	2	x	x	x	x	x	x	x	x	x	x	x	x
Saskatchewan .....	--	x	x	x	x	x	x	x	--	--	x	x	x
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 .....	16	194	405	889	166	12,214	21,197	9,364	x	x	351	1,785	9,573
1963													
Newfoundland .....	--	--	--	--	--	--	--	--	--	--	--	--	--
Prince Edward Island .....	--	--	--	--	--	--	--	--	--	--	--	--	--
Nova Scotia .....	--	--	--	--	--	--	--	--	--	--	--	--	--
New Brunswick .....	--	--	--	--	--	--	--	--	--	--	--	--	--
Quebec .....	2	x	x	x	x	x	x	x	--	--	x	x	x
Ontario .....	9	136	284	661	114	8,295	16,079	7,209	--	--	253	1,395	7,308
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	192	402	912	155	12,547	22,728	9,654	--	--	354	1,856	9,881



TABLE 1B. Principal Statistics classified by Size Groups based on Shipments of Goods of Own Manufacture, 1962 and 1963

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		Total employees		Total value added		
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages			
No.		'000			\$'000			\$'000		\$'000					
1962															
Under \$10,000	}														
\$ 10,000 to \$ 24,999		3	3	5	7	--	15	42	26	x	x	4	10	26	
25,000 " 49,999		}	3	2	4	7	3	54	166	112	-	-	10	62	111
50,000 " 99,999															
100,000 " 199,999															
200,000 " 499,999	4	29	53	98	40	693	1,133	428	-	-	72	344	445		
500,000 " 999,999	3	27	60	116	15	1,341	2,038	642	-	-	65	339	656		
1,000,000 " 4,999,999	}	3	133	283	661	107	10,110	17,819	8,155	-	-	200	1,031	8,334	
5,000,000 and over															
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Totals	16	194	405	889	166	12,214	21,197	9,364	x	x	351	1,785	9,573		
1963															
Under \$10,000	}														
\$ 10,000 to \$ 24,999		3	3	7	8	--	9	41	27	-	-	8	23	27	
25,000 " 49,999		}	3	11	21	40	4	31	243	104	-	-	24	118	121
50,000 " 99,999															
100,000 " 199,999															
200,000 " 499,999	3	17	34	65	30	557	974	413	-	-	49	245	434		
500,000 " 999,999	3	29	61	122	14	1,192	2,090	968	-	-	72	387	987		
1,000,000 " 4,999,999	}	3	132	280	677	107	10,759	19,381	8,144	-	-	201	1,082	8,312	
5,000,000 and over															
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Totals	15	192	402	912	155	12,547	22,728	9,654	-	-	354	1,856	9,881		

TABLE 1C. Principal Statistics classified by Size Groups based on Manufacturing Value Added, 1962 and 1963

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		Total employees		Total value added		
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages			
No.		'000			\$'000			\$'000		\$'000					
1962															
Under \$10,000	}														
\$ 10,000 to \$ 24,999		4	4	7	9	2	30	72	40	x	x	6	18	40	
25,000 " 49,999		}	3	6	9	16	5	222	371	155	-	-	22	101	154
50,000 " 99,999															
100,000 " 199,999															
200,000 " 499,999	5	37	79	139	43	1,481	2,163	666	-	-	91	437	699		
500,000 " 999,999	}	4	147	310	724	116	10,480	18,592	8,503	-	-	232	1,230	8,879	
1,000,000 " 4,999,999															
5,000,000 and over															
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Totals	16	194	405	889	166	12,214	21,197	9,364	x	x	351	1,785	9,573		
1963															
Under \$10,000	}														
\$ 10,000 to \$ 24,999		3	3	7	8	--	9	41	27	-	-	8	23	27	
25,000 " 49,999		}	4	14	28	51	7	229	534	195	-	-	36	166	220
50,000 " 99,999															
100,000 " 199,999															
200,000 " 499,999	3	23	46	82	29	831	1,240	440	-	-	61	290	482		
500,000 " 999,999	}	5	152	322	770	118	11,478	20,913	8,992	-	-	249	1,377	9,152	
1,000,000 " 4,999,999															
5,000,000 and over															
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Totals	15	192	402	912	155	12,547	22,728	9,654	-	-	354	1,856	9,881		



TABLE 1 F. Principal Statistics classified by Type of Organization, 1962 and 1963

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		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
No.		'000			\$'000				\$'000			\$'000	
1962													
Individual ownerships .....	} 16	194	405	889	166	12,214	21,197	9,364	x	x	351	1,785	9,573
Partnerships .....													
Incorporated companies .....													
Cooperatives .....	-	-	-	-	-	-	-	-	-	-	-	-	-
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Totals .....</b>	<b>16</b>	<b>194</b>	<b>405</b>	<b>889</b>	<b>166</b>	<b>12,214</b>	<b>21,197</b>	<b>9,364</b>	<b>x</b>	<b>x</b>	<b>351</b>	<b>1,785</b>	<b>9,573</b>
1963													
Individual ownerships .....	-	-	-	-	-	-	-	-	-	-	-	-	-
Partnerships .....	-	-	-	-	-	-	-	-	-	-	-	-	-
Incorporated companies .....	15	192	402	912	155	12,547	22,728	9,654	-	-	354	1,856	9,881
Cooperatives .....	-	-	-	-	-	-	-	-	-	-	-	-	-
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Totals .....</b>	<b>15</b>	<b>192</b>	<b>402</b>	<b>912</b>	<b>155</b>	<b>12,547</b>	<b>22,728</b>	<b>9,654</b>	<b>-</b>	<b>-</b>	<b>354</b>	<b>1,856</b>	<b>9,881</b>

TABLE 2. Industry Output, Input and Value Added, 1962 and 1963

	Manufacturing activity		Non-manufacturing activities		Total activity	
	1962	1963	1962	1963	1962	1963
\$'000						
<b>Output</b>						
1. Shipments and other revenue .....	21,197	22,728	870	802	22,067	23,530
Inventories - Goods of own manufacture:						
Add closing - Goods in process .....	2,915	1,600	...	...	2,915	1,600
Finished goods .....	706	749	...	...	706	749
Less opening - Goods in process .....	2,349	1,971	...	...	2,349	1,971
Finished goods .....	726	751	...	...	726	751
2. Net inventory change .....	546	(373)	...	...	546	(373)
3. Gross output (1 + 2) .....	21,743	22,355	870	802	22,613	23,157
<b>Input</b>						
4. Purchases of goods not of own manufacture .....	...	...	629	555	629	555
Inventories - Goods not of own manufacture:						
Add opening .....	...	...	85	80	85	80
Less closing .....	...	...	80	86	80	86
5. Cost of goods sold (not of own manufacture) .....	...	...	634	549	634	549
6. Materials, supplies, components and semi-processed goods .....	12,214	12,547	27	25	12,241	12,572
7. Fuel and electricity .....	166	155	...	...	166	155
8. Gross input (5 + 6 + 7) .....	12,380	12,702	661	574	13,041	13,276
<b>Census value added (3 - 8) .....</b>	<b>9,364</b>	<b>9,654</b>	<b>209</b>	<b>228</b>	<b>9,573</b>	<b>9,881</b>

TABLE 3. Employment and Payroll, 1962 and 1963

Year and province	Employees										Salaries and wages				
	Production and related workers				Administrative and office		Sales and distribution		Total employees		Production and related workers		Administrative and office	Sales and distribution	Total salaries and wages
	Manufacturing		Other		Male	Female	Male	Female	Male	Female	Manufacturing	Other			
	Male	Female	Male	Female											
	number										\$'000				
<b>1962</b>															
Newfoundland .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec .....	x	-	-	-	x	x	x	-	x	x	x	-	x	x	x
Ontario .....	137	-	3	-	54	18	42	-	236	18	645	3	437	284	1,369
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	x	x
Yukon and Northwest Territories .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Totals .....</b>	<b>194</b>	<b>-</b>	<b>3</b>	<b>-</b>	<b>69</b>	<b>27</b>	<b>58</b>	<b>-</b>	<b>324</b>	<b>27</b>	<b>889</b>	<b>3</b>	<b>544</b>	<b>349</b>	<b>1,785</b>
<b>1963</b>															
Newfoundland .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec .....	x	-	-	-	x	x	x	-	x	x	x	-	x	x	x
Ontario .....	136	-	1	-	51	21	44	-	232	21	661	1	413	320	1,295
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	x	x
Yukon and Northwest Territories .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Totals .....</b>	<b>192</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>71</b>	<b>31</b>	<b>59</b>	<b>-</b>	<b>323</b>	<b>31</b>	<b>912</b>	<b>1</b>	<b>558</b>	<b>385</b>	<b>1,856</b>

TABLE 3A. Production and Related Workers, - Manufacturing Activity, by Months, 1962 and 1963

Month	Establishments reporting monthly detail			
	1962		1963	
	Male	Female	Male	Female
	number			
January .....	190	-	185	-
February .....	188	-	185	-
March .....	192	-	185	-
April .....	194	-	185	-
May .....	200	-	197	-
June .....	201	-	199	-
July .....	205	-	202	-
August .....	200	-	198	-
September .....	191	-	194	-
October .....	186	-	192	-
November .....	188	-	193	-
December .....	184	-	192	-
Average for establishments reporting monthly detail (collected only for large establishments) ..	194	-	192	-
Average for small establishments (only annual averages collected) .....	...	...	...	...
Average for all establishments .....	194	-	192	-



TABLE 4. Industry Inventories, 1963

Province	Manufacturing				Non-manufacturing	Total inventories
	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total manufacturing	Products or materials purchased for resale	
book value \$'000						
Opening:						
Newfoundland .....	-	-	-	-	-	-
Prince Edward Island .....	-	-	-	-	-	-
Nova Scotia .....	-	-	-	-	-	-
New Brunswick .....	-	-	-	-	-	-
Quebec .....	x	x	x	x	x	x
Ontario .....	240	1,879	551	2,671	59	2,730
Manitoba .....	x	x	x	x	x	x
Saskatchewan .....	-	-	-	-	-	-
Alberta .....	x	x	x	x	x	x
British Columbia .....	x	x	x	x	x	x
Yukon and Northwest Territories .....	-	-	-	-	-	-
<b>Totals .....</b>	<b>1,280</b>	<b>1,971</b>	<b>751</b>	<b>4,002</b>	<b>80</b>	<b>4,082</b>
Closing:						
Newfoundland .....	-	-	-	-	-	-
Prince Edward Island .....	-	-	-	-	-	-
Nova Scotia .....	-	-	-	-	-	-
New Brunswick .....	-	-	-	-	-	-
Quebec .....	x	x	x	x	x	x
Ontario .....	214	1,474	496	2,184	64	2,248
Manitoba .....	x	x	x	x	x	x
Saskatchewan .....	-	-	-	-	-	-
Alberta .....	x	x	x	x	x	x
British Columbia .....	x	x	x	x	x	x
Yukon and Northwest Territories .....	-	-	-	-	-	-
<b>Totals .....</b>	<b>1,632</b>	<b>1,600</b>	<b>749</b>	<b>3,982</b>	<b>86</b>	<b>4,068</b>

TABLE 5. Purchased Fuel and Electricity Used in Manufacturing Activity, 1962 and 1963

Description	1962		1963	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
1. Large establishments which reported commodity detail:				
Bituminous coal:				
(a) From Canadian mines .....	ton	-	-	-
(b) Imported .....	"	225	3	156
Sub-bituminous coal (from Alberta mines only) .....	"	-	-	-
Anthracite coal .....	"	-	-	-
Lignite coal .....	"	-	-	-
Coke .....	"	-	-	-
Gasoline (including gasoline used in cars and trucks) .....	Imp. gal.	75,049	25	76,045
Fuel oil including kerosene or coal oil .....	"	958,121	84	977,646
Wood .....	cord	-	-	-
Gas:				
(a) Liquefied petroleum gases .....	Imp. gal.	2,665	1	16,000
(b) Other manufactured gas .....	M cu.ft.	-	-	-
(c) Natural gas .....	"	969	1	1,512
Other fuel .....	...	...	5	...
Electricity purchased .....	kwh.	3,482,362	45	3,789,201
Steam purchased .....	...	...	3	...
2. Estimate for small establishments:				
Fuel and electricity .....		-	-	-
3. All establishments:				
<b>Total fuel and electricity used .....</b>		<b>...</b>	<b>166</b>	<b>...</b>

TABLE 6. Materials and Supplies - Manufacturing Activity, 1962 and 1963

Description	1962		1963	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
<b>1. Materials used:</b>				
Oils for blending:				
Canadian ..... Imp. gal.	8,451,714	2,792	10,338,122	3,339
Imported ..... "	10,515,641	3,415	10,088,725	3,131
Grease for blending:				
Imported ..... lb.	464,261	60	314,394	36
Additives for lube oils and greases ..	..	1,656	..	1,684
All other materials and components used <sup>1</sup> ..	..	1,220	..	1,266
<b>2. Containers and other packaging materials and supplies used .....</b>	...	2,719	...	2,750
<b>3. Operating, maintenance and repair supplies used (excluding fuel) .....</b>	...	262	...	270
<b>4. Amount paid out to others for work done on materials owned by establishments .....</b>	...	90	...	70
<b>Totals .....</b>	...	12,214	...	12,547

<sup>1</sup>No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. These estimated costs were \$169,000, in 1962 and \$31,625 in 1963.

TABLE 7. Shipments of Goods of Own Manufacture, 1962 and 1963

Description	1962		1963	
	Quantity	Value	Quantity	Value
		\$'000		\$'000
<b>1. Products:</b>				
Oils Greases, lubricating ..... Imp. gal.	18,538,883	18,182	20,639,691	19,904
Greases Oils, lubricating ..... lb.	18,589,075	2,930	16,741,681	2,974
All other products .....	..	398	..	271
<b>2. Amount received in payment for work done on materials and products owned by others .....</b>	...	26	...	27
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above .....	..	(338)	..	(348)
Net adjustment for establishments receiving progress payments .....	-	-	-	-
<b>Total adjusted value of shipments and work done .....</b>	...	21,197	...	22,728

TABLE 8. Sales of Lubricating Oils and Greases by Class of Trade, 1963

Product	Retail gasoline pump outlets	Railways, excluding marine uses	Farms	Other	Total sales
barrels of 35 Imperial gallons					
<b>Lubricating oil:</b>					
Atlantic Provinces <sup>1</sup> .....	101,996	21,479	5,310	143,467	276,252
Quebec .....	265,864	63,776	24,229	426,189	780,058
Ontario .....	401,597	38,875	38,333	893,764	1,372,569
Manitoba .....	60,943	28,639	32,522	61,647	183,751
Saskatchewan .....	63,677	2,918	109,528	69,276	245,399
Alberta <sup>2</sup> .....	93,970	37,719	75,612	212,863	426,164
British Columbia <sup>3</sup> .....	90,846	14,238	5,571	258,874	369,529
<b>Canada .....</b>	<b>1,078,893</b>	<b>207,644</b>	<b>291,105</b>	<b>2,070,080</b>	<b>3,647,722</b>
<b>Grease:<sup>4</sup></b>					
Atlantic Provinces <sup>1</sup> .....	5,914	1,357	293	7,517	15,081
Quebec .....	12,370	2,282	1,294	31,384	47,330
Ontario .....	17,959	1,677	3,956	46,179	69,771
Manitoba .....	2,084	1,017	6,797	2,914	12,812
Saskatchewan .....	2,564	72	10,077	3,021	15,734
Alberta <sup>2</sup> .....	4,181	1,331	4,827	10,316	20,655
British Columbia <sup>3</sup> .....	3,511	293	276	12,720	16,800
<b>Canada .....</b>	<b>48,583</b>	<b>8,029</b>	<b>27,520</b>	<b>114,051</b>	<b>198,183</b>

<sup>1</sup> Includes Newfoundland, Prince Edward Island, Nova Scotia and New Brunswick.

<sup>2</sup> Includes North West Territories.

<sup>3</sup> Includes Yukon Territories.

<sup>4</sup> Includes greases at 10 pounds to a gallon.

**List of Establishments classified to This Industry, 1963**

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

Name	Location
<b>Quebec:</b>	
Shell Canada Ltd. ....	6010 Notre Dame St. E., Montreal
Tide Water Oil Company (Canada) Ltd. ....	50 DeLouvain W., Montreal
<b>Ontario:</b>	
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. ....	220 Laird Ave., Toronto
Ontario Lubricating Co. Ltd. ....	120 Chatham St., Hamilton
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
<b>Manitoba:</b>	
Tide Water Associated Oil Company (Canada) Ltd. ....	471 Madison St., Winnipeg
<b>Alberta:</b>	
Jet-Lube of Canada Ltd. ....	9925-77 Ave. S.W., Edmonton
<b>British Columbia:</b>	
Star Oil Refining Ltd. ....	3367 Oak St., 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 58 (4 digit) sub classes. At the Canada level, principal statistics are collected and compiled for 178 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 140 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 various 1963 reports reflect the complete implementation of these changes and enable comparisons to be made with the years 1961 and 1962. 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 activity**

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. 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. 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.). 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 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



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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 materials and fuel and electricity consumed from the value of production (value of shipments adjusted for changes in the value of inventories of finished goods and goods in process).

**(b) By non-manufacturing activities**

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

purchased for re-sale) and the cost of other 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 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".