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# CONSISTING OF:

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

# ANNUAL CENSUS OF MANUFACTURES

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# DOMINION BUREAU OF STATISTICS

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# **PUBLICATIONS**

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# PETROLEUM REFINERIES

# 1964

## **SECTION 1. PETROLEUM REFINERIES, 1964**

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

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

Value of shipments and other revenue (manufacturing and non-manufacturing) of the Potroleum Refineries industry amounted to \$1,450 millions in 1964, compared with \$1,386 millions in 1963, an increase of \$64 millions or about 5 per cent. Included in this total were shipments by the Petroleum Refining industry valued at \$1,371 millions and shipments by Manufacturers of Lubricating Oils and Greases at \$25 millions. Other revenue (non-manufacturing) accounted for \$54 millions.

The cost of materials and supplies, etc., used in the production of goods of own manufacture increased by \$33 millions. Cost of materials and supplies, etc., (inputs), in 1964 represented 79 per cent of value of shipments of own manufacture (outputs), compared to 80 per cent in 1963.

**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.
- revised figures.
- x confidential to meet secrecy requirements of the Statistics Act.



TABLE 1. Principal Statistics, 1961-64

				Мал	ufacturing	activity				T	otal activ	ity	
Year and province	Estab- lish- ments		duction a ated work		Cost of fuel and	Cost of materials	Value of shipments of goods	Value		artners	Emp	loyees	Value
		Number	Man- hours paid	Wages	elec- tricity	and supplies	of own manu- facture	added	Number	With- drawals	Number	Salaries and wages	added
	No.		°000			\$'000				\$'000		\$*(	00
1961		1.15											
Totals	57	7,406	15,844	41, 527	10, 968	911, 693	1,200,612	280, 726	x	x	10,991	64,768	281, 98
1962													
Totais	58	7.124	15, 385	41.918	10.444	994,007	1,274,266	273, 509	x	x	10, 535	64, 593	276,42
1963													
Newfoundland	1	x	x	x	x	x	x	x	_		x	x	x
Prince Edward Island	_	_	_	-	_	_		_	_	_	_	_	
Nova Scotla	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	81,2
Ontarlo	16	2,132	4,525	12,857	2,588	345, 333	420, 155	82,840			3,085	19,873	83, 4
Manitoba	4	324	687	1,891	504	39,830		13,326			766	3,789	13, 7
Saskatchewan	* 6	617					55,221				835		
Alberta	9		1,310	3,530	918	62,647	82,864	19,357				5,044	19,5
		790	1,691	4,774	1,921	93, 648	124,608	28,046			1,121	7,150	28,4
British Columbia	8	680	1,461	4,121	1,266	89, 685	116,651	23, 588	-	-	978	6,349	24,1
Yukon and Northwest Territories	1	x	x	X	X	x	X	X	-	-	X	X	X
Totais	55	6, 905	14,930	41,752	10, 882	1,069,805	1, 344, 872	274,824	-	-	10, 088	83, 692	278, 5
1964													
Newfoundland	1	x	x	x	x	x	x	x	-	-	x	x	x
Prince Edward Island	_		-	-	-	-	-	-	-	-	-	-	
Nova Scotla	2	x	x	x	x	x	x	x	-	-	x	x	x
New Brunswick	1	x	x	x	x	x	x	x	-	-	x	x	x
Quebec	8	1, 718	3,722	11, 328	2,767	319,120	394,876	71,873	-	_	2, 506	17, 285	72, 3
Ontario	16	2, 105	4,810	13, 465	3, 536	375, 494	474, 909	90, 057	-	-	3, 105	21,009	90, 3
Manitoba	4	330	713	1,962	528	44, 265	58, 211	14,210	-	_	770	3, 930	14, 6
Saskatchewan	6	582	1, 219	3, 450	886	60, 365	77, 292	15, 595	cashe	_	787	4,970	15, 9
Alberta	9	740	1, 594	4,707	1,923	93, 351	124,576	28, 139	-	-	1,035	7,047	28, 5
British Columbia	8	685	1, 425	4, 199	1,453	102, 248	127, 529	24, 577	_	_	943	6, 327	25, 6
Yukon and Northwest Territories	1	X	x	x	x	x	x	x	-		x	x	x

				Мал	ufacturing	activity				T	'otal activ	ity	
Size group	Estab- lish- ments		duction a ited worke				Value of shipments of goods	Value	Working and pa		Empl	oyees	Value
		Number	Man- hours paid	Wages	elec- tricity	and supplies	of own manu- facture	added	Number	With- drawals	Number	Salaries and wages	added
	No.		'000			\$'000				\$'000		\$*0	000
1963													
Under \$10,000 \$ 10,000 to \$ 24,999	} 3	3	7	8		9	41	27	_	-	8	23	27
25,000 ** 49,999 50,000 ** 99,999	3	11	21	40	4	31	243	104	-	-	24	118	121
100,000 " 199,999 200,000 " 499,999 500,000 " 999,999 1,000,000 " 4,999,999 5,000,000 and over Head offices, sales offices and	3 3 8 35	17 29 271 6, 574	34 61 615 14, 192	65 122 1, 468 40, 048	30 14 413 10, 421	557 1, 192 16, 244 1,051,773	974 2, 090 22, 067 1, 319, 457	413 966 5, 532 267, 781	-		49 72 378 9,557	245 387 2, 074 60, 844	434 987 5,982 270,974
auxiliary units													
Totals	55	6,905	14, 930	41,752	10, 882	1, 069, 805	1, 344, 872	274, 824	-	-	10,088	63, 692	278, 526
1964				-		100							
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-	-	- 1
\$ 10,000 to \$ 24,999 25,000 ** 49,999	} 3	7	14	24	2	23	81	56	-	-	10	35	56
50,000 ** 99,999 100,000 ** 199,999	3	13	25	58	6	146	333	210	-	-	32	183	305
200,000 " 499,999 500,000 " 999,999 5,000,000 and over Head offices, sales offices and a auxiliary units	3 4 5 38	15 38 183 6, 474	33 82 424 14, 118	75 190 986 41,563		562 1,596 8,479 1,092,094	1, 015 2, 759 11, 843 1, 380, 501	374 893 3, 228 271, 354			49 95 261 9, 473	262 482 1,400 63,556	401 904 4, 028 275, 297
	56	6.730	14.696	42,896	12 102		1, 396, 531				9,920	65, 918	280, 991
T Totals	56	0, 130	14,096	44, 896	12, 102	1, 106, 500	1, 390, 331	A10, 114			0,020	00, 510	

TABLE 2. Principal Statistics classified by Size Group based on Value of Shipments of Goods of Own Manufacture, 1963 and 1964

TABLE 3. Principal Statistics classified by Size Group based on Manufacturing Value Added, 1963 and 1964

				Мал	ufacturing	activity				Т	otal activ	rity		
Size group	Estab- lish- ments		duction a ated work		Cost of Cost of shi		Value of shipments of goods	Value	Working owners and partners		Employees		Value	
	MCH02	Number	Man- hours paid	Wages	elec- tricity	and supplies	of own manu- facture	added	Number	With- drawals	Number	Salaries and wages	added	
	No.		'000			\$'000				\$'000		\$*0	00	
1963		-				1								
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	
100,000 ** 199,999 200,000 ** 499,999	34	23 88	46 193	82 397	29 52	831 4,601	1,240 5,945	440	-		61 149 252	290 708 1,487	482 1,538 3,832	
500,000 " 999,999 1,000,000 " 4,999,999 5,000,000 and over	5 15 21	184 1,389 5,204	422 2, 973 11, 262	1,034 8,251 31,928	311 2,809 7,672	8,893 190,883 864,361	12,798 235,760 1,088,554	3, 557 42, 605 226, 637			2, 224 7, 358	12,965	44, 573 227, 853	
Head offices, sales offices and auxiliary units														
T Totals	55	6, 905	14, 930	41, 752	10, 882	1,069,805	1, 344, 872	274, 824	-	-	10,088	63, 692	278, 526	
1964							1.7							
Under \$10,000	-	-	-		-	-	-	-	-	-	-	-	-	
\$ 10,000 to \$ 24,999 25,000 ** 49,999	} 4	8	16	29	4	64	156	97		-	14	56	116	
50,000 '' 99,999	3	16	31	68	7	273	497	230	_		40	209	317 384	
100,000 ** 199,999 200,000 ** 499,999	43	30 39	68 78	153 148	34	1,184 2,569	1,906	348 935	_	_	92	388	1,047	
500,000 ** 999,999	4	174	398	1,036	640	12,440	15,856	2,738	-	-	253	1, 504	3,340 51,552	
1,000,000 4 4,999,999	17 21	1, 540 4, 923	3,381 10,724	9,715 31,748	3, 191 8, 207	325,048 861,321	279, 954 1, 094, 778	49, 184 222, 582	=	=	6, 961	47, 758	224, 235	
Head offices, sales offices and auxiliary units														
T Totals	56	6,730	14, 696	42, 896	12, 102	1,102,900	1, 396, 531	276.114	-	-	9, 920	65, 918	280, 991	

				Man	ufacturing	activity				Т	otal activ	vity	
Size group	Estab- lish-		duction a ated work		Cost of	Cost of	Value of shipments			owners artners	Empl	loyees	
	ments	Number	Man- hours pald	Wages	fuel and elec- tricity	materials and supplies	of goods of own manu- facture	Value added	Number	With- drawals	Number	Salaries and wages	Value added
	No.		*000			\$*000				\$'000		\$*1	000
1963											1.1		1
Under \$10,000 \$ 10,000 to \$ 24,999	} 3	3	7	8		9	41	27	-	-	8	23	27
25,000 '' 49,999 50,000 '' 99,999	} 4	14	28	51	7	229	534	195		-	36	166	220
100,000 ** 199,999 200,000 ** 499,999 500,000 ** 999,999	3 4 4	23 88 130	46 193 273	82 397 685	29 52 282	831 4,601 7,409	1,240 5,945 10,236	440 1, 362 2, 558	-		61 149 189	290 708 1,069	482 1,538 2,566
1,000,000 " 4,999,999 5,000,000 and over Head offices, sales offices and	15 22	1,300 5,347	2,918 11,564	7, 800 32, 728	2,589 7,921	174,371 882,356	214,759 1,112,117	38,61i 231,631	-	Ξ	2,095 7,550	12, 246 49, 198	40, 786 232, 905
auxiliary units					• • •	6.0.0							
Totals	55	6, 905	14, 930	41, 752	10, 882	1,069.805	1, 344, 872	274, 824	-	-	10, 088	63, 692	278, 526
1964													1.6
Under \$10,000 \$ 10,000 to \$ 24,999 25,000 '' 49,999	3	7	14	24	-2	23	81	56	Ξ	=	10	35	56
50,000 ** 99,999 100,000 ** 199,999	6	30	64	157	36	806	1, 436	249	-	-	75	416	349
200,000 ** 499,999 500,000 ** 999,999	4	40 128	81 287	144 660	16 344	1,926	2,751 8,952	883 2.334	_	-	<b>9</b> 1 212	381 1,112	937
1,000,000 ' 4,999,999 5,000,000 and over	18 21	1,602	3, 527	1, 164	3, 498 2, 207	232, 244	288, 534	50,010	-	-	2,571	16, 215	52,612
Head offices, sales offices and auxiliary units	21	4,923	10,724	31, 748	2, 207	861, 321	1,094,778	222, 582	-	-	6,961	47, 758	224, 235
Totals	56	6.730	14.696				1.396.531				9,920	65, 918	280, 991

# TABLE 4. Principal Statistics classified by Size Group based on Total Value Added, 1963 and 1964

TABLE 5. Principal Statistics classified by Size Group based on Total Employed, 1963 and 1964

		1		Mar	ufacturing	activity					rotal acti	vity	
Size group	Estab- iish-			cost of			Value of shipments	Value	Working owners and partners		Employees		
	menta	Number	Man- hours paid	Wages	fuel and elec- tricity	materials and supplies	of goods of own manu- facture	added	Number	With- drawals	Number	Saiaries and wages	Value added
	No.		*000		1	\$'000		l		\$*000		\$*0	00
1963							1		1.1	1.7			
Under 5 employed	} 7	12	26	42	9	580	1, 047	455	-	_	35	143	474
15-49 50-99 100-199 200-499 500 employed and over	10 8 14 12 4	183 442 1,520 2,506 2,242	384 1,000 3,243 5,452 4,826	953 2,455 9,161 15,347 13,703	189 932 3,247 4,675 1,830	13,735 53,632 216,738 442,713 342,407	17,870 68,803 289,977 538,703 428,474	4,363 14.011 66,607 97,569 91,819		1111	312 591 2,196 3,793 3,161	1,720 3,469 14,103 23,319 20,939	4.568 15,509 66,725 99,053 92,197
ilead offices, sales offices and auxiliary units													
Totals	55	6, 905	14, 930	41, 752	10, 882	1,069,805	1, 344,872	274,824	-	-	10,088	63, 692	278, 526
1964									1999				
Under 5 employed	4 4 87 17 12 4	8 19 116 361 1,666 2,412 2,148	16 42 253 865 3,664 5,161 4,695	28 105 590 2,159 10,912 15,588 13,543	4 20 127 1.024 4,415 4,585 1,928	84 945 9,287 53,520 296,845 403,332 338,906	156 1, 504 12, 131 69, 935 375, 485 513, 801 423, 519	97 253 2,882 14,640 80,958 98,965 78,320			14 44 2555 499 2, 389 3, 696 3, 053	56 241 1, 178 3, 133 16, 417 24, 198 20, 695	115 325 3,218 16,309 81,147 i01,401 78,475
auxiliary units		• • •			***		* * *	* * *		***			
Totals	56	6,730	14,696	42,896	12, 102	1,102,900	1, 396, 531	276, 114	-	-	9,920	65, 918	280, 991

				Man	ufacturing	activity				1	Fotal acti	vity	
Type of organization	Estab- lish-		duction ated work		Cost of	Cost of	Value of shipments		Working owners and partners		Employees		Value
or Branzowyou	ments	Number	Man- hours paid	Wages	fuel and elec- tricity	materials and supplies	of goods of own manu- facture	Value added	Number	With- drawals	Number	Salaries and wages	Value added
	No.		'000			\$'000	· ·			\$'000		\$*0	00
1963								1					
Individual ownerships	i –	-	-	-	-		-	_		-	-	-	-
Partnerships	-	-	Prest	_	-		_	-	_	-	_	-	_
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
Co-operatives	-	_	_	-	_	-		-			-	-	-
Head offices, sales offices and auxiliary units													
Totals	55	6,905	14, 930	41, 752	10, 882	1,069,805	1, 344, 872	274, 824		_	10.088	63, 692	278, 526
1964													
Individual ownerships	-	-	-	_	-			-	-	-	-	-	-
Partnerships	-	-	-	-		-	-	-	-	-	-	-	
Incorporated companies	56	6,730	14.696	42, 896	12, 102	1,102,900	1, 396, 531	276, 114			9,920	65, 918	280, 99
Co-operatives	-	_		_		-	-	/			-		
Head offices, sales offices and auxiliary units							4 6 6						
Totals	56	6, 730	14, 696	42,896	12, 102	1,102,900	1, 396, 531	276, 114		-	9,920	65, 918	280, 99

# TABLE 6. Principal Statistics classified by Type of Organization, 1963 and 1964

# TABLE 7. Calculation of Output, Input and Value Added, 1963 and 1964

	Manufac activ		Non-manufa activiti		Tota	
	1963	1964	1963	1964	1963	1964
		1	\$'000	)l		
Output						
1. Shipments and other revenue	1, 344, 872	1, 396, 531	41, 093	53,619	1, 385, 965	1, 450, 150
Inventories-Goods of own manufacture:						
Add closing - Goods in process	22, 927	24, 222		+ = + 1	22, 927	24.222
Finished goods	127,880	122,957			127, 880	122, 957
Deduct opening - Goods in process	22, 253	22, 875		4 n f	22, 253	22, 875
Finished goods	117,914	129, 720			117,914	129, 720
2. Net inventory change	10,640	(5, 416)			10, 640	( 5, 416)
3. Gross output (1 + 2)	1, 355, 512	1, 391, 115	41,093	53,619	1, 396, 605	1, 444, 734
Input						
4. Purchases of goods not of own manufacture			34,884	46, 288	34, 884	46, 288
Inventories - Goods not of own manufacture:						
Add opening			3, 970	4, 300	3, 970	4, 300
Deduct closing			4, 282	4, 083	4, 282	4, 083
5. Cost of goods sold (not of own manufacture)			35, 572	46, 505	34, 572	46,505
6. Materials, supplies, etc.	1,069,805	1, 102, 900	2, 819	2, 238	1,072,624	1, 105, 138
7. Fuel and electricity	10, 882	12, 102			10, 682	12, 102
8. Gross input (5 + 6 + 7)	1, 080, 687	1, 115, 002	37, 391	48, 743	1, 118, 078	1, 163, 745
Value added (3 - 8)	274, 824	276, 114	3, 702	4, 877	278, 526	280, 991

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TABLE 8. Employment an	d Payroll, 1963 and 1964
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					Emplo	yees						Salari	es and wa	ages	
Year and		Product related			Adm trat	inis-		les nd	To	tal	Production and		Admin-	Sales	
province	Manufa	cturing	Ot	her	and office		distribution				related workers		istra- tive and	and distri-	Total
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Manufac- turing	Other	office	bution	
		4			numt	ber							\$'000		
1963		1			1	1		1		1					
lewfoundland	x	-	-	-	x	X	-	-	х	x	х	-	X	-	x
Prince Edward Island	-	-	-	-	-	-		-	-	-	-	-	-	-	-
vova Scotia	x –	x	х	-	х	X	-	-	x	X	х	X	x	-	X
lew Brunswick	х	x	-	-	x	x	_	-	x	x	х	-	X	-	x
auebec	1.780	3	33	-	646	91	9	-	2,468	94	11,157	184	5,509	41	16, 89
Ontario	2,102	30	40	-	744	125	44	-	2,930	155	12,857	233	6,464	320	19,87
danitoba	324	-	20	-	113	43	241	25	696	68	1,891	75	964	859	3, 78
Saskatchewan	613	4	14	-	173	19	12	-	812	23	3,530	89	1,376	49	5,04
Alberta	788	2	6	-	279	46	-		1,073	48	4,774	39	2,337	-	7, 15
British Columbia	680	-	2	-	252	31	12	1	946	32	4,121	11	2,147	70	6,34
Yukon and Northwest Terri- tories	x	x	x	-	x	x	-	-	x	x	x	x	x	_	x
Totals	6, 852	53	118	-	2, 349	372	318	26	9, 637	451	41, 752	646	19, 955	1, 339	63, 69
1964															
Newfoundland	x	-		-	x	x		-	x	x	x	-	x	-	x
Prince Edward Island	-		-	-	-	-	-	-	~	-	-	-	-	-	-
Nova Scotia	x	-	x	-	x	x	-	-	x	x	x	x	x	-	x
New Brunswick	x	-	-	-	х	x	-	-	x	X	x	-	x	-	X
Quebec	1,716	2	27	-	667	84	10	-	2,420	86	11,328	156	5,752	49	17, 28
Intario	2,078	27	41	-	781	130	48	-	2,948	157	13,465	255	6,985	304	21,00
Manitoba	330		13		129	47	230	21	702	68	1,982	52	1,072	844	3,93
Saskatchewan	581	1	11		154	18	22	-	768	19	3,450	80	1,331	109	4,97
Alberta	740	-	12	-	246	37	_	-	998	37	4,707	76	2,264	-	7,04
British Columbia	665	-	4	-	236	23	14	1	919	24	4,199	26	2,018	84	6,32
Yukon and Northwest Terri-															
tories	x	-	x	-	x	x	-	-	x	x	х	x	x	-	X
Totals	6, 700	30	124		2, 363	357	324	22	9.511	409	42, 896	755	20.877	1.390	65.91

# TABLE 9. Production and Related Workers, - Manufacturing Activity, 1963 and 1964

	196	3	1964		
Month	Male	Female	Male	Female	
		numb	er		
Establishments reporting monthly detail (large establishments only):		1			
Januaty	6, 895	49	6,537	27	
February	6,768	50	6,509	30	
March	6,789	48	6,615	28	
April	6,839	52	6,699	30	
May	7,018	54	6,838	30	
June	7,118	56	6,928	30	
July	7, 274	54	7,043	30	
August	7,189	60	6,939	30	
September	6, 718	51	6,756	30	
October	6, 602	47	6, 583	30	
November	6,609	46	6,457	29	
December	6,506	52	6,463	30	
Averages	6, 852	53	6, 700	30	
Establishments reporting annual averages (small establishments only)				4 0 4	
Average for all establishments	6, 852	53	8,700	30	

TABLE	10.	Inventories,	1964
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		Manufa	cturing		Non- manufacturing	
Province	Materials, supplies, etc.	Goods in process	Finished goods of own manufacture	Total	Products or materials purchased for resale	<b>T</b> otal inventories
			book value	\$'000		
Opening:						
Newfoundland	X	х	x	х	x	х
Prince Edward Island	-	white	4495	-	-	-
Nova Scotia	X	x	x	х	x	х
New Brunswick	x	х	x	х	x	х
Quebec	17,772	5,610	39,989	63, 371	849	64,220
Ontario	31,679	9,681	44,852	86,213	933	87,145
Manitoba	1,438	142	5,120	6,701	431	7,132
Saskatchewan	2,480	532	10,376	13,389	7	13,396
Alberta	2,781	1,498	11,060	15,339	148	15,488
British Columbia	5,261	1,895	10, 885	18,041	472	18, 513
Yukon and Northwest Territorles	-	-	x	х	-	x
Totals	64, 804	22, 875	129, 720	217, 399	4, 300	221, 699
Closing:						
Newfoundland	x	х	x	х	x	х
Prince Edward Island		-	-	-	-	-
Nova Scotia	x	х	x	х	X.	х
New Brunswick	x	х	x	x	X	х
Quebec	14,460	6,024	38, 459	58, 943	571	59, 514
Ontario	31,662	9,350	39,362	80,375	682	81,057
Manitoba	1,975	313	5, 743	8,031	423	8,454
Saskatchewan	2,073	903	9,561	12,537	7	12, 543
Alberta	2,034	1,773	9,622	13,428	161	13,589
British Columbia	5,433	3,554	9,976	18,963	596	19, 559
Yukon and Northwest Territories	-		х	х	-	
Totals	63, 036	24, 222	122, 957	210, 215	4,083	214, 298

# TABLE 11. Purchased Fuel and Electricity Used in Manufacturing Activity, 1963 and 1964

		1963		1964	
Description		Quantity	Cost	Quantity	Cost
			\$'000		\$'000
1. Large establishments reporting commodity detail:					
Bituminous coal:					
(a) From Canadian mines	ton	-	-	-	-
(b) Imported	**	156	2	178	
Sub-bituminous coal (from Alberta mines only)	64	-	-		
Anthracite coal		-	-	-	-
Lignite coal		-	-	-	-
Coke	6.6		- 1	-	-
Gasoline (Including gasoline used in cars and trucks)	Imp. gal.	127, 225	44	112, 874	4
Fuel oil including kerosene or coal oil	21	989, 456	76	1, 118, 941	8
Wood	cord	_	-	-	
Gas:					
(a) Liquefied petroleum gases	Imp. gal.	16,000	3	85	-
(b) Other manufactured gas	-	-	_		-
(c) Natural gas	2.8	8, 762, 071	1,953	8, 789, 431	2,05
Other fuel			2		
Electricity purchased	kwh.	1,278,023,744	8,516	1,510,571,284	9,57
Steam purchased			285		35
. Small establishments not reporting commodity detail:					
Estimate for fuel and electricity		-	-	-	-
. All establishments:					
Total fuel and electricity used			10,882		12, 10

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 being included with the Petroleum and Gas Wells industry (S.I.C. Industry No. 063).

Value of shipments and other revenue (manufacturing and non-manufacturing) of the Petroleum Refining industry amounted to \$1,423 millions in 1964, compared with \$1,362 millions in 1963, an increase of \$61 millions or about 4 per cent. Inclued in this total were shipments of motor gasoline, kerosene, stove oil, diesel fuel, light and heavy fuel oils, lubricating oil and grease, and other petroleum products valued at \$1,371 millions. Other revenue (non-manufacturing) accounted for \$52 millions.

The cost of materials and supplies, etc., used in the production of goods of own manufacture increased by \$32 millions. Cost of materials and supplies etc., (inputs) in 1964 represented 79 per cent of value of shipments of own manufacture (outputs), compared to 80 per cent in 1963.

				Mar	ufacturing	activity				Т	otal activ	ity	
Year and	Estab- llsh-		oduction ated work		Cost of	Cost of	Value of shipments		Working and pa	owners	Empl	oyees	
province	ments	Number	Man- hours paid	Wages	fuel and elec- tricity	materials and supplies	of goods of own manu- facture	Value added	Number	With- drawals	Number	Salaries and wages	Value added
	No.		*000			\$1000				\$'000		\$'0	000
1961		100											
Totals	44	7, 220	15, 462	40,687	10,820	899,836	1, 183, 508	275, 604	-	-	10,660	63, 140	276, 72;
1962	-												
fotals	42	6, 930	14, 980	41,030	10, 278	981, 793	1, 253, 068	264, 146	_	-	10, 184	62, 508	266, 85
1963													
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	76, 68:
Ontario	7	1, 996	4,240	12, 196	2.474	337,038	404.076	75, 631	-	-	2,832	18,478	76, 18
Manitoba	3	321	681	1, 879	500	39,632	54,929	13,236	_	_	754	3,741	13,63
Saskatchewan	6	617	1,310	3,530	918	62, 863	82,864	19.357	-	_	835	5.044	19,55
Alberta	8	789	1, 689	4,770	1,919	93,623	124.544	28,009	_	-	1. 117	7, 130	28, 40
British Columbia	6	676	1,453	4, 110	1, 264	89,677	116,602	23,552		_	971	6, 331	24.11
Yukon and Northwest Territories	1	x	x	x	X	x	x	X			x	X 0,001	X X
Total	40	6, 713	14, 527	40,840			1, 322, 143			-	9,734		268, 644
	20	0, 113	11, 541	40,040	10, 121	1, 031, 233	1, 366, 143	603, 110		-	5, 134	01, 833	200, 04
1964 Newfoundland	1	x	Fire										
Prince Edward Island	_	*	X	X	x	x	X	x	-	-	X	X	x
Nova Scotla	2				-	-	-	-	-	-	-	-	-
New Brunswick	1	x	X	X	x	x	х	X	-	-	х	x	x
Quebec	6	X	x	X	х	x	х	x	-	-	x	x	x
Ontario	7	1.970	4.327	X	X	X	x	x	-	-	x	X	X
fanitoba	3			12,773	3, 427	367,003	457, 940		-	-	2,835	19, 523	81, 238
askatchewan		X	x	X	х	x	x	x	-	-	x	х	x
liberta	6	X	X	x	X	х	x	x	-		X	x	x
British Columbia		X	X	X	х	x	X	x	-		x	x	x
	6	X	X	x	x	x	x	X	-	-	X	x	x
ukon and Northwest Territories	1	X	x	x	x	x	x	x	-	-	x	x	x
Totals	41	6, 535	14, 268	41, 881	11, 950	1, 089, 131	1, 371, 340	264, 204	-	-	9,547	63, 872	268, 60

### TABLE 1. Principal Statistics, 1961-64

				Мал	ufacturing	activity				Т	otal activ	rity	
Size group	Estab- lish- ments		duction a ated work		Cost of	Cost of materials	Value of shipments of goods	Value	Working owners and partners		Empl	oyees	Value
		Number	Man- hours paid	Wages	elec- tricity	and supplies	of own manu- facture	added	Number	With- drawals	Number	Salaries and wages	added
	No.		2000			\$*000				\$'000		\$'(	000
1963					]	]							
nder \$10,000	-			_									
10,000 to \$ 24,999	_	_	_	_	_	_	_	_	_		_		_
25,000 ' 49,999	-			-	- 1	_	- 1	-	-	-	-	-	-
50,000 ** 99,999		-	-	-	-	- 1	-	-	-			-	-
100,000 '' 199,999	-	-		-		-	-	-	-	- 1	-		-
200,000 499,999	-		-	-	-	-	-	-	-	-	-		-
500,000 " 999,999		-						-			-	-	
1,000,000 " 4,999,999 5,000,000 and over ead offices, sales offices and	33	257 6, <b>456</b>	584 13, 943	1, 404 39, 436	401 10, 326	14, 893 1,0 42,365	20, 360 1, 301, 784	5,207 259,963	-	-	337 9, 397	1,876 59,959	5,57 263,06
auxiliary units												4.4.2	
Totals	40	6, 713	14, 527	40, 840	10, 727	1,057,259	1, 322, 143	265,170	-	-	9, 734	61, 835	268, 64
1964													
nder \$10,000	_	_	_		_	_	-	-		-	_	_	
10,000 to \$ 24,999	_	-			-	-	-	-			-	-	
25,000 ** 49,999	-	-	-		-			-		-	-	-	
50,000 " 99,999			-			-	-	-	-	-	-	-	
100,000 ** 199,999	-		-	-	-	-	-	-			-	-	
200,000 ** 499,999	-	-	-	-	-	-		-	-	-	-	-	
500,000 " 999,999	1 5	175	408	965	355	7, 493	10,691	2,653	-	_	229	1, 264	3, 3
,000,000 " 4,999,999	36	6, 360	13,860	40,916	11, 595		1, 360, 649	261,552	_	-	9,318	62,608	268, 2
ead offices, sales offices and auxiliary units													
Totals	41	6, 535	14, 268	41,881	11,950	1.089.131	1.371.340	264,204			9.547	63,872	268.6

TABLE 2. Principal Statistics classified by Size Group based on Value of Shipments of Goods of Own Manufacture, 1963 and 1964

## TABLE 3. Principal Statistics classified by Size Group based on Manufacturing Value Added, 1963 and 1964

				Mar	ufacturing	activity				Т	'otal acti	vity	
Size group	Estab- llsh- ments		duction a ated work		Cost of fuel and	Cost of materials	Value of shipments of goods	Value	Working and pr	owners artners	Emp	loyees	Value
		Number	Man- hours paid	Wages	elec- tricity	and supplies	of own manu- facture	added	Number	With- drawals	Number	Salaries and wages	added
	No.		'000			\$'000				\$'000		\$*0	000
1963						1							
								100					1.11
Under \$10,000	-	-	-	-				-	-			-	-
\$ 10,000 to \$ 24,999	-	-	-	-	-	-	-		-	-	-	-	
25,000 49,999	-	-	-	-	-	-		-	-	-		-	
50,000 " 99,999 100,000 " 199,999	_	-	-	-	-	-	-		-	-	-	-	-
0-0-0-11 100-000		-		_	-	-	_	_	-	-	-	-	-
200,000 ** 499,999 500,000 ** 999,999	6	238	542	1,273	341	11,423	15, 503	3,746		-	312	1,703	4, 126
1,000,000 ** 4,999,999	14	1,350	2.891	8.056	2.778	187.334	230,075	40, 440	-	-	2,170	12.683	42, 330
5,000,000 and over	20	5, 125	11,095	31, 511	7, 608	858, 502	1,076,566	220,984	-	-	7,252	47, 449	222, 188
auxiliary units													
Totals	40	6, 713	14, 527	40,840	10, 727	1,057,259	1, 322, 143	265, 170	-	-	9,734	61, 835	268, 644
1964				1									
Under \$10,000											_		
\$ 10,000 to \$ 24,999				_			_	-	_				_
25,000 " 49,999	-		_					-			-		_
50,000 ** 99,999	-	-	-	-					-				
100,000 ** 199,999	1												
200,000 ** 499,999 500,000 ** 999,999	5	186	422	1,067	649	13, 217	16, 460	2, 241	-	-	255	1, 448	2,863
1,000,000 ** 4,999,999	16	1, 502	3, 282	9,474	3, 157	220.442	272, 720	46,491	-	-	2,432	15,252	48,620
5,000,000 and over	20	4, 847	10, 565	31, 341	6, 144	855,472	1,082,161	215, 472	-	-	6, 860	47,172	217, 121
Head offices, sales offices and auxiliary units													
Totals	41	6, 535	14, 268	41, 881	11,950	1,089,131	1, 371, 340	264, 204	-	_	9, 547	63, 872	268, 604

	10.1			Man	ufacturing	activity				Т	otal activ	lty	
Size group	Estab- lish-		duction ated work		Cost of	Cost of	Value of shipments		Working and pa	owners	Empl	oyees	
	ments	Number	Man- hours paid	Wages	fuel and elec- tricity	materials and supplies	of goods of own manu- facture	Value added	Number	With- drawals	Number	Salaries and wages	Value added
	No.		*000		1	\$'000				\$*000		\$*(	000
1963					1								
Under \$10,000	_	_		_	_	_	_	-	_	_	_	_	_
\$ 10,000 to \$ 24,999		-		-	-		-	-	_	-	-	-	-
25,000 49,999	_	-	-	-				_	-				-
50,000 " 99,999	_	-	-	-	-		-		-		-	-	-
100,000 ** 199,999	-	-	-	-				-	-	-	-	-	
200,000 ** 499,999	3 5	184	394	924	312	9,940	12,941	2,746		_	249	1.285	2,86
500,000 ** 999,999	14					170.074	209.074	36, 446		_	2,041	11,964	38. 54
1,000,000 '' 4,999,999 5,000,000 and over Head offices, sales offices and	21	1, 261 5, 268	2,737 11,397	7,605 32,311	2, 558 7, 857	876, 496	1,100,129	225,977	_	_	7,444	48, 586	227, 24
auxiliary units			***	* * *									
Totals	40	6, 713	14, 527	40, 849	10, 727	1,057,259	1, 322, 143	265,170	-	-	9, 734	61, 835	268, 64
1964													
Under \$10,000	j	_	_		_	-	-	_	_			_	_
\$ 10,000 to \$ 24,999		-				-	-	-	-	-		-	
25,000 " 49,999	-		-	-		-	-	-	-	-	-	-	-
50,000 " 99,999	-	-	-	-	-	-	-		-	-	-	-	-
100,000 ** 199,999 200,000 ** 499,999 500,000 ** 999,999	} 4	124	275	617	342	6,021	7, 881	1, 415	-	-	170	848	1, 80
1,000,000 ** 4,999,999	17	1,564	3, 428	9,923	3. 463	227,638	281, 299	47.317	_	_	2, 517	15,852	49,67
5,000,000 and over	20	4, 847	10, 565	31, 341	8,144		1,082,161	215,472	-	-	6, 860	47, 172	217, 12
auxiliary units							***						
Totals	41	6, 535	14, 268	41,881	11,950	1,089,131	1,371,340	264,204	- )	-	9, 547	63, 872	268, 60

## TABLE 4. Principal Statistics classified by Size Group based on Total Value Added, 1963 and 1964

TABLE 5. Principal Statistics classified by Size Group based on Total Employed, 1963 and 1964

		1.5		Mar	ufacturing	activity				2	lotal acti	vity	
Size group	Estab- lish-		oduction lated work		Cost of	Cost of	Value of shipments			owners artners	Emp	loyees	Value
	ments	Number	Man- hours paid	Wages	fuel and elec- tricity	materials and supplies	of goods of own manu- facture	Value added	Number	With- drawals	Number	Salaries and wages	v alue added
	No.		'000			\$'000				\$*000		\$*0	00
1963													
Under 5 employed	-		-		-	-	-	-	_	_	-		-
5- 14 employed	-	-	-		100	11 100	12 0.01	2,982	-	-		001	3, 067
15 - 49 <sup>11</sup> 50 - 99 <sup>14</sup>	47	121 403	256 918	696 2,260	138	11, 177 50, 083	13,861 63,118	11.846	_	_	153 537	891	13, 267
100-199 "	13	1, 441	3,075	8,744	3, 183	210, 878	277,988	60,954	-	-	2,090	13,500	61,060
200-499 500 employed and over Head offices, sales offices and	12 4	2, 506 2, 242	5,452 4,826	15, 437 13, 703	4,675	442, 713 342, 407	538, 703 428, 474	97,569 91,819	-	=	3, 793 3, 161	23, 319 20, 939	99,053 92,197
auxiliary units									4-4-4			4 - +	
Totals	40	6, 713	14, 527	40, 840	10, 727	1,057,259	1,322,143	265,170	-	-	9, 734	61, 835	268, 644
1964													100
Under 5 employed						_	_	_	-		_	_	_
5 - 14 employed	1 4	78	173	440	105	7, 416	9,450	1,709	-	_	115	647	1, 894
15 - 49 50 - 99	5	307	734	1.834	960	48, 481	61,701	11.363	_	_	395	2, 501	12. 801
100-199 **	16	1.590	3, 505	10, 505	4, 352	290, 996	362, 868	73,848	-	_	2, 288	15.832	74.034
200-499 **	12	2,412	5, 161	15, 558	4, 585	403, 332	513,801	98,965		-	3,696	24, 198	101, 401
500 employed and over Head offices, sales offices and auxiliary units	4	2, 148	4, 694	13, 543	1,927	338, 906	423, 619	78, 320	-		3,053	20, 695	78, 475
(are by the time of the second					* * *	1					* * *	***	
Totals	41	6,535	14, 268	41,881	11,950	1,089,131	1, 371, 340	264,204	-	-	9, 547	83, 872	268,604

- 3	[4	-
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				Man	ufacturing	activity				1	Potal acti	vity	
Type of organization	Estab- lish-		duction a ated work		Cost of	Cost of	Value of shipments			owners artners	Empl	oyees	
olBernzerton	ments	Number	Man- hours paid	Wages	fuel and elec- tricity	materials and supplies	of goods of own manu- facture	Value added	Number	With- drawals	Number	Salaries and wages	Value added
	No.		'000			\$'000				\$'000		\$*(	000
1963					1	1							1
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
Co-operatives	-	_	-	-	-	-	-	-			-	-	- 75
Head offices, sales offices and auxiliary units													
Totals	40	6, 713	14, 527	40, 840	10, 727	1,057,259	1, 322, 143	265, 170	-	-	9.734	61, 835	268, 64
1964					-								
Individual ownerships	- 1	-	_	-	-	_	-	-		-	-	-	-
Partnerships	-	_	-	-	_		_	_	-	_	-	-	-
Incorporated companies	41	6, 535	14, 268	41,881	11,950	1,089,131	1, 371, 340	264, 204			9, 547	63,872	268,604
Co-operatives	_	_	_	_	-	_	_	-			-		-
Head offices, sales offices and auxiliary units								* 6 4	4 * *				
Totals	41	6,535	14,268	41, 881	11,950	1,089,131	1, 371, 340	264,204	_	-	9, 547	63,872	268,60

# TABLE 6. Principal Statistics classified by Type of Organization, 1963 and 1964

# TABLE 7. Calculation of Output, Input and Value Added, 1963 and 1964

	Manufac activ		Non-manufa activiti		Tot	
	1963	1964	1963	1964	1963	1964
			\$'00	0		
Output						
1. Shipments and other revenue	1, 322, 143	1, 371, 340	40,291	51,678	1, 362, 434	1, 423, 018
Inventories-Goods of own manufacture:						
Add closing - Goods in process	21, 326	22, 545			21, 326	22,545
Finished goods	127, 131	121,620			127,131	121,620
Deduct opening-Goods in process	20, 282	21,356			20, 282	21,356
Finished goods	117, 163	128,864			117,163	128,864
2. Net inventory change	11,012	(6,055)			11,012	(6,055)
3. Gross output (1+2)	1,333,155	1, 365, 285	40,291	51,678	1, 373, 446	1, 416, 963
Input						
4. Purchases of goods not of own manufacture			34, 329	44,833	34, 329	44, 833
Inventories - Goods not of own manufacture:	1 m 1				200 I I	
Add opening			3,889	4, 196	3, 889	4, 196
Deduct closing			4, 196	3,952	4, 196	3,952
5. Cost of goods sold (not of own manufacture)			34,022	45,077	34,022	45,077
6. Materials, supplies, etc.	1,057,259	1,089,131	2,794	2, 201	1,060,053	1,091,332
7. Fuel and electricity	10,727	11,950			10, 727	11,950
8. Gross input (5+6+7)	1,067,986	1, 101, 081	36,816	47, 278	1,104,802	1, 148, 359
Value added (3 - 8)	265, 170	264, 204	3, 475	4,400	268,644	268, 604

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TABLE	8,	Employment	and	Payroll,	1963	and	1964	
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	100				Emplo	yees						Salari	es and wa	ges	
Year and		Product related			Adm	inls-		les	То	tal	Producti		Admin-	Sales	
province	Manufa	cturing	Ot	her		office		bution	10	1. 80	related w	vorkers	istra- tive and	and distri-	Total
1. 1. 2. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Manufac- turing	Other	office	butlon	
					numl	per							\$'000		
1963															
Newfoundland	х	x	x	-	x	x	-	-	х	x	х	X	X	-	x
Prince Edward Island	-		-	-	-	-	-	-	-	-	-		-	-	-
Nova Scotia	x	x	x	-	x	X	-	-	x	х	X	x	x	-	x
New Brunswick	X	x	x	-	х	х	-	-	x	х	X	x	X	-	x
Quebec	1,732	3	33	-	631	85	-	-	2, 396	88	10, 933	184	5,400	-	16, 51'
Ontario	1,966	30	39	-	693	104		-	2,698	1 34	12, 196	231	6,051	-	18, 47
Manitoba	321	-	20	-	112	41	235	25	688	66	1,897	75	952	835	3,74
Saskatchewan	613	4	14	-	173	19	12	-	812	23	3, 530	89	1,376	49	5, 04
Alberta	787	2	6	-	277	45			1,070	47	4, 770	39	2, 320	-	7,13
British Columbia	676	-	2	-	250	30	12	1	940	31	4,110	11	2, 140	70	6,33
Yukon and Northwest Terri- tories	x	x	x	-	x	x		-	x	x	x	x	x	-	x
Totals	6, 660	53	117	-	2, 278	341	259	26	9,314	420	40, 840	645	19, 396	954	61, 83
1964							2.								
Newfoundland	x	x	x	х	x	х	x	x	x	x	х	x	x	х	x
Prince Edward Island	-	-	-		-	-	-	-	-	-	-	-	-		-
Nova Scotia	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
New Brunswick	x	x	x	x	x	x	x	x	x	x	x	х	х	х	x
Gaebec	x	x	x	_	x	x	-	-	x	x	x	х	x	-	x
Untario	1,943	27	40	-	723	102	-	-	2,706	129	12,773	251	6,500	-	19, 52
Manitoba	x	-	x	-	x	x	x	x	х	x	x	x	x	x	x
Saskatchewan	x	x	x	-	x	x	x	-	x	x	x	x	x	x	x
Alberta	x	-	x	-	x	x	-	-	x	x	x	x	x	- 1	х
British Columbia	x	-	x	-	x	x	x	x	x	x	x	х	x	х	x
Yukon and Northwest Terri- iories	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Totals	6, 505	30	123		2.287	319	261	22	9.176	371	41.881	751	20. 221	1.020	63.87

# TABLE 9. Production and Related Workers, - Manufacturing Activity, 1963 and 1964

	196	3	1964		
Month	Male	Female	Male	Female	
		numbe	er I		
Establishments reporting monthly detail (large establishments only):		1	1		
January	6, 610	49	6, 347	27	
February	6,583	50	6,319	30	
March	0 004	48	6, 425	28	
April	6,654	52	6, 506	30	
May	6, 621	54	6, 640	30	
June	0.010	56	6,721	30	
July	7,072	54	6,834	30	
August	0.001	60	6,731	30	
September	0 504	51	6,565	30	
October	6 410	47	6, 390	30	
November	C A1C	46	6, 271	29	
December	6 214	52	6,276	30	
Averages	6,660	53	6, 505	30	
Establishments reporting annual averages (small establishments only)					
Average for all establishments	6,660	53	6, 505	30	

		Manufa	cturing		Non- manufacturing	Faint Inventories						
Province	Materials, supplies, etc.	Goods in process	Finished goods of own manufacture	Total	Products or materials purchased for resale							
	book value \$'000											
Opening:												
Newfoundland	x	x	x	х	x	x						
Prince Edward Island	-	-	-	-		_						
Nova Scotia	x	x	x	x	x	x						
New Brunswick	x	х	x	x	-	x						
Quebec	x	x	x	x	x	x						
Ontario	31,457	8,208	44.335	83,999	850	84,850						
Manitoba	x	x	x	x	x	х						
Saskatchewan	х	x	x	x	x	x						
Alberta	x	x	x	x	x	x						
British Columbia	x	x	x	x	x	x						
Yukon and Northwest Territories		-	x	х	-	x						
Totals	63, 162	21,356	128, 864	213, 383	4, 196	217, 579						
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	x	x	x	x	x	x						
Ontario	31, 327	7,674	38, 533	77, 534	801	78,135						
Manitoba	x	x	x	х	x	x						
Saskatchewan	x	x	x	x	x	x						
Alberta	x	x	x	x	x	X						
British Columbia	x	x	x	x	x	χ						
Yukon and Northwest Territories	-	Alliais	x	х	_	x						
Totals	61,472	22, 545	121,620	205,638	3,952	209, 590						

# TABLE 10. Inventories, 1964

## TABLE 11. Purchased Fuel and Electricity Used in Manufacturing Activity, 1963 and 1964

		1963		1964		
Description		Quantity	Cost	Quantity	Cost	
			\$'000		\$'000	
L. Large establishments reporting commodity detail:	1.0					
Bituminous coal:						
(a) From Canadian mines	ton	-	-	-	-	
(b) imported	48	- 1	-	- 1	-	
Sub-bituminous coal (from Alberta mines only)	48	_	_	-	_	
Anthracite coal	44	-	-	_	_	
Lignite coal	4.8	-		_	_	
Coke	2.6			- 1	-	
Gasoline (including gasoline used in cars and trucks)	Imp. gal.	51, 180	17	61, 559	24	
Fuel oil including kerosene or coal oil	<i>ee</i>	11,810	3	5,023	2	
Wood	cord			_	_	
Gas:		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
(a) Liquefied petroleum gases	Imp. gal.	_	-		-	
(b) Other manufactured gas	M cu. ft.	_	-		-	
(c) Natural gas		8, 760, 559	1,951	8,786,439	2,048	
Other fuel		-	-	-		
Electricity purchased	kwh.	1, 274, 234, 543	8,471	1,506,868,130	9,523	
Steam purchased			285		354	
2. Small establishments not reporting commodity detail:						
Estimate for fuel and electricity			_	-	2	
3. All establishments:						
Total fuel and electricity used			10,727	* * * Y	i1,950	

		1963		1964			
Description		Quantity	Cost	Quantity	Cost		
			\$'000		\$'000		
, Materials used:							
Crude oil in its natural state, from Canadian wells Absorption gasoline, etc., from Canadian wells (run to stills) Crude oil, in its natural state, imported, (run to stills):	bbl.	178,080,016 4,470,096	534,678 13,377	192,598,898 5,140,003	578,84 14,72		
From United States         From South America         From other countries         Crude oil, not in its natural state (run to stills)         Benzol         Alkylate and cumene         Phenol         Sulphutc acid, 100%         Ammonia, anhydrous         Sulphut         Caustic soda         Soda ash         Litharge         Fuller's earth, bentonite and other clays         Tetraethyi fluid         Dyes for gasoline         Inhibitor         Fluid catalytic cracking unit catalysts (Aerocat, Nalcat, Filtrol 100, FCCU catalyst, etc.)         Reforming or polymerization catalysts         Additives         All other materiais and components used	** 10. ** **	$\begin{array}{c} 94,013,4\overline{37}\\ 52,355,093\\ 754,173\\ 37,240\\ 980,908\\ 24,442,831\\ 557,236\\ 321,242\\ 25,369,499\\ 1,225,312\\ 194,600\\ 2,379\\ 50,492,196\\\\\\\\\\\\\\\\ .$	$\begin{array}{c} 264,230\\ 140,223\\ 4,412\\ 366\\ 2,522\\ 118\\ 354\\ 56\\ 14\\ 966\\ 14\\ 966\\ 14\\ 966\\ 14\\ 966\\ 14\\ 966\\ 14\\ 966\\ 14\\ 966\\ 14\\ 966\\ 14\\ 966\\ 15\\ 128\\ 172\\ 18,310\\ 119\\ 849\\ 5,635\\ 1,203\\ 3,716\\ 37,938\\ \end{array}$	102, 843, 304 41, 309, 808 754, 787 6, 120 643, 830 1, 276, 450 29, 224, 001 629, 468 311, 430 20, 559, 129 1, 208, 260 190, 620 2, 332 53, 478, 490	282, 24 108, 58 4, 45 4 3, 83 15 45 7 1 77 4 3 14 18, 85 122 1, 05 5, 93 1, 21 3, 28 33, 20		
Containers and other packaging materials and supplies used			8,557		8, 32		
. Operating, maintenance and repair supplies used (excluding fuel)			14,369		16, 84		
Amount paid out to others for work done on materials owned by establishments			5,010		6,08		
Totals			1,057,259		1,089,13		

# TABLE 12. Materials and Supplies - Manufacturing Activity, 1963 and 1964

# TABLE 13. Shipments of Goods of Own Manufacture, 1963 and 1964

		1963		1964				
Description	Quantity made including amounts for own use	Quantity shipped	Value of shlpments	Quantity made including amounts for own use	Quantity shipped	Value of shipments		
	barr	els	\$'000	bai	rels	\$'000		
1. Products:			_					
Gasoline (excluding imported casing head-blended):								
Aviation gasoline	1,660,197	1,630,661	10,928	1,614,456	1, 645, 223	10, 439		
Motor gasoline	116, 265, 159	116, 518, 194	586,682	122, 218, 568	122, 253, 754	603,807		
Naphtha specialties	740, 146	691, 932	4,028	745, 797	729, 815	3,591		
Aviation turbine fuel	7, 393, 588	7, 479, 183	27, 210	7,374,117	7, 130, 270	27, 932		
Kerosene, stove oil (No. 1 fuel oil) and tractor fuel	19,050,047	18, 715, 544	84,335	18, 817, 636	18, 771, 103	83, 790		
Diesel fuel	33, 721, 225	32,531,002	131,766	35,711,947	35, 720, 107	144,341		
Light fuel oils (Nos. 2 and 3)	59, 228, 816	59,000,352	238,535	59, 141, 952	58,744,868	239,677		
Heavy fuel oils (Nos. 4, 5, and 6)	59,047,611	46,076,300	101, 385	60,046,498	48, 160, 413	107,525		
Lubricating oil and grease	2, 823, 253	2, 815, 250	43,420	3, 148, 191	3,148,353	47,693		
Asphalt	10, 117, 071	9, 963, 751	29,661	10, 767, 552	10, 612, 849	32,573		
Petroieum coke		958, 251	1, 812		992,710	1,978		
Petrochemical feed stocks	6,957,948	6,661,747	19,346	8,901,610	8, 867, 201	28,026		
Liquefied petroleum gases	5, 034, 563	4, 408, 687	11,692	5,734,605	4,788,484	12,679		
All other products			32, 136			28,805		
2. Amount received in payment for work done on materials and products owned by others			2,009			357		
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above			(2,800)			(865)		
Not adjustment for establishments receiving progress payments	-	_	_			(1,006)		
Total adjusted value of shipments and work done		* * *	1, 322, 140			1, 371, 340		

	Quantity
	barrels
Crude oil and naphtha, in its natural state, from Canadian wells	4,677,818
Absorption gasoline, etc., from Canadian wells	
Crude oil, imported:	
In its natural state	
Not in its natura] state	
Total crude	
aphtha specialties	
viation gasoline	
lotor gasoline	10, 415, 375
viation turbine fuel	848, 549
erosene, stove oil (No. 1 fuel) and tractor fuel	
iesel fuel	3, 661, 428
ight fuel oils (Nos, 2 and 3)	8,142,118
leavy fuel oils (Nos. 4, 5 and 6)	4, 113, 983
Jubricating oils and greases	490, 880
.iquefied petroleum gases (propane, butane, etc.)	
Petro]eum coke	

### TABLE 14. Stocks on Hand at the Refineries at the End of December 31, 1964

## TABLE 15. Refinery Production<sup>1</sup> of Gasoline, 1955-64

	Year	Motor gasoline	Aviation gasoline	Total
		50	barrels	
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, 107
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
1964		122, 218, 568	1, 614, 456	123, 833, 024

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

### TABLE 16. Number<sup>1</sup> and Total Capacity of Petroleum Refineries in Operation, December 31, 61-64

	1	.961	1	962	1	963	1964		
Province	Number	Capacity, in barrels of crude per day							
Newfoundland	1	8,500	1	8,500	1	8, 500	1	8,500	
Nova Scotia	1	50,000	1	50,000	1	50,000	2	72,000	
New Brunswick	2	47,800	2	45,300	2	45,300	1	45,000	
Quebec	6	297,000	6	304, 500	6	305,000	6	318,700	
Ontario	7	260, 820	7	279,170	8	305,470	7	306,900	
Manitoba	3	37,420	3	37,420	3	40,420	3	41,300	
Saskatchewan	6	70, 750	6	69,720	6	70,010	6	70,010	
Alberta	10	90,670	10	94, 560	8	88, 800	7	86, 700	
British Columbia	6	97, 300	6	97,300	6	97,300	6	101,500	
Northwest Territories	1	1,500	1	1,900	1	1,900	1	1, 900	
Canada	44	961, 760	43	987, 970	42	1, 012, 700	40	1, 052, 510	

<sup>1</sup> Number of refineries in above table may not agree with number of establishments shown in Table 1 et seq, because of different methods used in accounting for refineries in partial operations or terminating operations during the year by the two agencies involved. Note: 1 barrel = 35 Imperial gallons.

Source: Petroleum Refineries in Canada, January 1, 1965 issued by Department of Energy, Mines and Resources, Catalogue No. M36-65/5.

# TABLE 17. Consumption of Crude Oil in Petroleum Refineries, showing Canadian and Imported Separately, 1955-64

Year	Canadian <sup>1</sup>	Imported	Total
		barrels	
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	138, 547, 168	106, 458, 959	240, 006, 127
1959	152, 143, 029	115, 599, 492	267, 742, 521
1960	152, 033, 834	125, 851, 879	277, 885, 713
1961	162,601,125	132, 469, 105	295, 070, 230
1962	175, 022, 688	134, 080, 865	309, 103, 553
1963	182, 550, 112	147, 122, 703	329, 672, 815
1964	197, 738, 901	144, 907, 899	342, 646, 800

<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, 1964

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

Name	Location
Newfoundland:	
Golden Eagle Refining Co. of Canada Ltd.	St. John's
Nova Scotia:	
Imperial Oil Limited	
New Brunswick:	
Irving Refining Limited	Saint John
Duebec:	
R.P. Refinery Canada Limited British American Oil Co. Limited Canadian Petrofina Ltd. Imperial Oil Limited Shell Canada Ltd. Texaco Canada Limited	Montreal East Pointe-aux-Trembles Montreal East Montreal East
Ontario;	
B.P. Refinery Canada Limited British American Oil Co, Limited Imperial Oil Limited Shell Canada Ltd. Sun Oil Company Limited Texaco Canada Limited (Regent Refining Div.)	Clarkson Sarnia Corunna, Oakville Sarnia
Manitoba:	
Angio-Canadian Oils Ltd. Imperia) Oll Limited Shell Canada Limited	East St. Paul
Saskatchewan:	
British American Oli Co, Limited Canadian Husky Oli Ltd. Consumers' Co-operative Refineries Limited Imperial Oil Limited Northern Petroleum Corporation Ltd. Royalite Oli Co, Ltd.	Moose Jaw Regina Regina Kamsack
Alberta:	
British American Oll Co. Limited Canadian Husky Oll Ltd. Imperial Oll Limited Shell Canada Limited Texaco Canada Limited	Lloydmínster Calgary, Edmonton Grande Prairie, Innisfail
British Columbia:	
British American Oil Co. Limited Imperial Oil Limited Royalite Oil Co. Ltd. Sheil Canada Ltd. Standard Oil Company of British Columbia Ltd. Pacific Petroleums Ltd.	Ioco Kamloops North Burnaby North Burnaby
Northwest Territories:	
Imperia) Oii Limited	Notman Wells

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

Value of shipments and other revenue (manufacturing and non-manufacturing) of the Manufacturers of Lubricating Oils and Greases amounted to \$27,131,000 in 1964, compared with \$23,530,000 in 1963, an increase of \$3,601,000 or about 15 per cent. Included in this total were shipments of lubricating oils and lubricating greases, etc. valued at \$25,191,000. Other revenue (non-manufacturing) accounted for \$1,940,000.

The cost of materials and supplies, etc. used in the production of goods of own manufacture increased by \$1,221,000. Cost of materials and supplies, etc., (inputs) in 1964 represented 55 per cent of value of shipments of own manufacture (outputs), compared to same percentage in 1963.

				Man	ufacturing	activity			Total activity				
Year and	Estab- lish- ments		duction a ated work		Cost of fuel and	Cost of materials	Value of shipments of goods	Value		owners artners	Empl	loyees	Trahua
province	ments	Number	Man- hours paid	Wages	elec- tricity	and supplies	of own manu- facture	added	Number	With- drawals	Number	Salaries and wages	Value added
	No.		\$'000			\$'000				\$'000		\$'00	0
1961													
Totals	13	186	382	839	148	11,857	17, 105	5, 122	x	x	331	1, 628	5, 267
1962													
Totals	16	194	405	889	166	12, 214	21, 197	9, 364	x	x	351	1, 785	9, 573
1963													
Newfoundland	-	-	-	-	-	-	-		-	-	_	_	-
Prince Edward Island	-	-	-	-	-	-	_	-		_	-	-	-
Nova Scotia	-			-	-	-	_	-	-	-	_	-	
New Brunswick	-	-	-	- 1	-	-	-	-	-	-	-	-	-
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	х	х	x	х	x	х	х	-		x	x	х
Saskatchewan		-	-	-	-	-		-	-		-	-	-
Alberta	1	х	х	x	x	x	х	х	-	-	x	x	х
British Columbia	2	x	х	x	x	х	x	x	-	-	x	х	x
Yukon and Northwest Territories	-	-	-	-	-	-	-		-		-	-	
Totals	15	192	402	912	155	12, 547	22, 728	9, 654	-	-	354	1, 856	9, 881
1964									- 11				
Newfoundiand	-	_	-	-	-		-		-	-	-	-	-
Prince Edward Island	-		_	-	- 1	-		_	-	-	-	_	
Nova Scotia	-	-		-	_	-	-	-	_	-	-	-	-
New Brunswick	-		-	_	-	-	-	-	-	-	-		
Quebec	2	x	x	x	x	x	x	x	-	-	x	x	x
Ontario	9	135	282	692	109	8,491	16,969	8,883			270	1,486	9,073
Manitoba	1	x	x	x	x	x	x	х	-	-	x	x	x
Saskatchewan	-		_	-	-	-	-	-	_	-	-	-	-
Alberta	1	x	x	x	x	x	x	x	-	-	x	x	x
British Columbia	2	x	x	x	x	x	x	x	-		x	x	x
Yukon and Northwest Territories	-	-	-	-	-	-			-	-		-	-
Totals	15	195	428	1, 014	152	13, 768	25, 191	11,910	-	-	373	2,045	12, 386

### TABLE 1. Principal Statistics, 1961-64

## TABLE 2. Principal Statistics classified by Size Group based on Value of Shipments of Goods of Own Manufacture, 1963 and 1964

		Manufacturing activity								Т	otal activ	rity	
Size group	Estab- lish- ments		duction a sted work		Cost of fuel and	Cost of materials	Value of shipments of goods	Value		owners artners	Empl	oyees	Value
	Number Man- hours wages dec- paid wages elec- tricity supplies	of own manu- facture	added	Number	With- drawals	Number	Salaries and wages	added					
	No.		*000 \$*000					\$'000		\$*(	00		
1963													
Jnder \$10,000	} 3	3	7	8		9	41	27	-	-	8	23	2
50,000 11 99,999	3	11	21	40	4	31	243	104	-	-	24	118	12
200,000 ** 499,999 500,000 ** 999,999	3	17 29	34 61	65 122	30 14	557 1,192	974 2, 090	413 966	-	-	<b>49</b> 72	245 387	43 98
1,000,000 " 4,999,999 5,000,000 and over lead offices, sales offices and	} 3	132	280	677	107	10, 759	19, 381	8,144	-	-	201	1,082	8,31
auxiliary units	• • •		***		* * *	* * *							• •
Totals	15	192	402	912	155	12,547	22, 728	9,654	-	-	354	1,856	9, 88
1964											-		
Jnder \$10,000	-	_	_	-		-	-	-	-	-	_	-	
10,000 to \$ 24,999 25,000 ** 49,999	3	7	14	24	2	23	81	56	-	-	10	. 35	ł
50,000 <sup>11</sup> 99,999	3 3	13	25	57	6	146	333	210	-	-	32	183	30
200,000 " 499,999	3	15	33	75	23	562	1.015	374	-	-	49	262	40
500,000 '' 999,999 1,000,000 '' 4,999,999 5,000,000 and over lead offices, sales offices and	} 6	160	357	858	122	13,037	23, 763	11,270		-	282	1,565	11,6
auxiliary units		***									* * *		
Totals	15	195	428	1,014	152	13,768	25, 191	11,910	-	-	373	2,045	12.3

## TABLE 3. Principal Statistics classified by Size Group based on Manufacturing Value Added, 1963 and 1964

				Mar	ufacturing	activity				Т	'otal acti	vity	
Size group	Estab- lish- ments		duction a uted work		Cost of fuel and	Cost of	Value of shipments of goods	Value		owners artners	Emp	loyees	Value
		Number	Man- hours paid	Wages	elec- tricity	and supplies	of own manu- facture	added	Number	With- drawals	Number	Saiaries and wages	added
	No.		'000			\$'000				\$'000		\$*0	00
1963	1												
Under \$10,000	3	3	7	8		9	41	27	_	-	8	23	27
\$ 10,000 to \$ 24,999 25,000 ** 49,999	K 4	14	28	51	7	229	534	195	-	-	36	168	220
50,000 ** 99,999 100,000 ** 199,999	3	23	46	82	29	831	1, 240	440	-	-	61	290	482
200,000 ** 499,999 500,000 ** 999,999 1,000,000 ** 4,999,999 5,000,000 and over Head offices, sales offices and	5	152	322	770	118	11,478	20,913	8, 992	-	-	249	1,377	9,152
auxiliary units	***						* * *	* * *			***		
Totals	15	192	402	912	155	12,547	22,728	9,654			354	1,856	9,881
Under \$10,000	-		-	-	-	-	-	-	-	- 1	-	-	-
\$ 10,000 to \$ 24,999	3	7	14	24	2	23	81	56	-	-	10	35	58
25,000 <sup>49,999</sup>	4	17	33	73	9	314	572	271	-	-	44	230	376
100,000 <sup>**</sup> 199,999 200,000 <sup>**</sup> 499,999	3	22	49	100	22	835	1, 383	501	-		62	315	537
500,000 ** 999,999 1,000,000 ** 4,999,999 5,000,000 and over Head offices, sales offices and	5	149	332	818	119	12, 596	23, 155	11,082	-	-	257	1, 485	11,417
auxiliary units													
Totals	15	195	428	1,014	152	13, 768	25, 191	11, 910	-	-	373	2, 045	12, 386

-	22	-	

				Man	ufacturing	activity				I	otal activ	vity	
Size group	Estab- lish-		duction a ated work		Cost of	Cost of	Value of shipments	Ar . I.		; owners artners	Employees		Value
	ments	Number	Man- hours paid	Wages	fuel and elec- tricity	materials and supplies	of goods of own manu- facture	Value added	Number	With- drawals	Number	Salaries and wagee	added
	No.		'000			\$'000				\$'000		\$*0	000
1963											1	-	
Under \$10,000 10,000 to \$ 24,999	} 3	3	7	8		9	41	27	-	-	8	23	2'
25,000 ** 49,999 50,000 ** 99,999	} 4	14	28	51	7	229	534	195	-		36	166	22
100,000 " 199,999	3	23	46	82	29	831	1,240	440	-	-	61	290	48
200,000 ** 499,999 500,000 ** 999,999 1,000,000 ** 4,999,999 5,000,000 and over	} 5	152	322	770	118	11, 478	20,913	8,992	-	-	249	1, 377	9,15
lead offices, sales offices and auxiliary units													
Totals	15	192	402	912	155	12, 547	22, 708	9,654	-	-	354	1,856	9,88
1964													
Inder \$10,000											-		
10.000 to \$ 24.999	3	7	14	24	2	23	81	56	-	-	10	35	5
25,000 " 49,999 50,000 " 99,999	-	-	-	-	-	-	-	-	-	-	-	-	-
100,000 " 199,999	5	22	45	104	24	456	913	401	-		63	343	50
200,000 ** 499,999 500,000 ** 999,999	3	20	44	82	9	1,065	1,672	644	-	-	51	241	68
1,000,000 ** 4,999,999 5,000,000 and over lead offices, sales offices and	} 4	146	326	805	118	12, 224	22, 526	10,809	-	-	249	1, 428	11.14
auxiliary units				***									
Totals	15	195	428	1,014	152	13,768	25, 191	11,910	-		373	2.045	12, 38

## TABLE 4. Principal Statistics classified by Size Group based on Total Value Added, 1963 and 1964

TABLE 5. Principal Statistics classified by Size Group based on Total Employed, 1963 and 1964

		1		Mar	nufacturing	activity					rotal acti	vity	
Size group	Estab- lish-			Cost of		Value of shipments		Working owners and partners		Employees		AT a June	
	ments	Number	Man- hours paid	Wages	fuel and eiec- tricity	and supplies	of goods of own manu- facture	Value added	Number	With- drawals	Number	Salaries and wages	Value added
	No.		*000			\$*000				\$*000		\$*0	00
1963											A Second		
Under 5 employed 5- 14 employed	} 7	12	26	42	9	580	1,046	455	-	-	35	143	474
15 - 49 50 - 99 100 - 199 200 - 499	8	180	377	869	146	11,966	21,682	9, 199	-	-	319	1, 714	9, 407
500 employed and over Head offices, sales offices and	-	-	Ξ	-	-	-	-	-	-	-	-	-	-
auxiliary units				* * *	+ + +				*** *				
Totals	15	192	40 2	912	155	12, 547	22, 728	9,654	-	-	354	1,856	9,881
1964													
Under 5 employed	435	8 11 46	16 23 98	28 53 202	4 7 34	64 596 2, 220	156 981 3, 204	97 405 1,020	-	-	14 32 122	56 167 604	115 478 1, 172
50-99 "	} 3	1.30	291	731	107	10.888	20,850	10.387	-	-	205	1,218	10,622
100-199 **	-	-	-	_	_	_	-	-	-	-	-	-	-
500 employed and over	-		-	-	-	-	-	-	-	-	-	-	-
auxiliary units													
Totals	15	195	428	1,014	152	13, 768	25, 191	11,910		-	373	2,045	12, 386

0

				Мал	ufacturing	activity				1	rotal acti	vity	
Type of organization	Estab- lish-		duction ated worl		Cost of	Cost of	Value of shipments			owners	Empl	ployees	
	ments	Number	Man- hours paid	Wages	fuel and elec- tricity	materials and supplies	of goods of own manu- facture	Value added	Number	With- drawals	Number	Salaries and wages	Value added
	No.		'000			\$'000	·			\$'000		\$*0	00
1963							www.	1					
Individual ownerships	-	-	-	_	-		-	-	-	_	_	_	
Partnerships	-	_			_	_	-	_	_	_	_	_	_
Incorporated companies	15	192	402	912	155	12, 547	22,728	9,654			354	1,856	9,881
Co-operatives	-	_	-	_	_	_	_	-			-	_	-
Head offices, sales offices and auxiliary units													
Totals	15	192	402	912	155	12, 547	22, 728	9,654	-	-	354	1,856	9, 881
1964									1,01				
Individual ownerships	-	-	-	-	-	-	_	_	_	-	_	_	_
Partnerships	-	- 28	-	-	_	-		_	_	_	_	_	_
Incorporated companies	15	195	428	1,014	152	13, 768	25, 191	11,910			373	2,045	12, 386
Co-operatives	-	_	-	-	_	-	_	_			-	-	
Head offices, sales offices and auxiliary units													
Totals	15	195	428	1,014	152	13,768	25, 191	11,910	-	-	373	2,045	12,386

# TABLE 6. Principal Statistics classified by Type of Organization, 1963 and 1964

TABLE 7. Calculation of Output, Input and Value Added, 1963 and 1964

	Manufactu activit		Non-manufa activiti		Tota activi	
	1963	1964	1963	1964	1963	1964
			\$'000	)	l_	
Output			1			
1. Shipments and other revenue	22, 728	25, 191	80 2	1,940	23, 530	27, 13
Inventories - Goods of own manufacture:	1000					
Add closing - Goods in process	1,600	1,677			1,600	1,67
Finished goods	749	1, 337			749	1, 33
Deduct opening-Goods in process	1,971	1, 519			1,971	1, 519
Finished goods	751	856			751	856
2. Net inventory change	( 373)	639			(373)	639
3. Gross output (1 + 2)	22, 355	25, 830	802	1,940	23, 157	27, 770
Input						
4. Purchases of goods not of own manufacture			555	1, 454	555	1, 454
Inventories - Goods not of own manufacture:						
Add opening			80	104	80	104
Deduct closing			86	131	86	13:
5. Cost of goods sold (not of own manufacture)			549	1, 427	549	1, 42
6. Materiais, supplies, etc.	12, 547	13,768	25	37	12.572	13, 80
7. Fuel and electricity	155	152			155	152
8. Gross input (5 + 6 + 7)	12,702	13,920	574	1. 464	13, 276	15, 384
Value added (3 - 8)	9,654	11,910	228	476	9,881	12, 380

					Emplo	yees						Salari	es and wa	gés	
Year and		Product related			Adm	inis-		les	Te	otal	Product		Admin- Sales		
province	Manufa	cturing	0	ther		office		bution	10	hai	related v	workers	istra- tive and	and distri-	Total
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Manufac- turing	Other	office	bution	
			-	1	numi	per				-			\$'000		
1963		1 1				1 1				1					
Newfoundland	-	- 1	-		-		-	-	-	-	-	-	-	-	
Prince Edward Island	_	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick	_		_		-		-	-	-	-	_		-	-	-
Quebec	х	-	-	- 1	x	x	x	-	х	x	x	-	х	х	x
Ontario	136	-	1	-	51	21	44	-	232	21	661	1	413	320	1,395
Manitoba	x				x	x	x	- 1	х	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 Terri-										1.1					
tories		-	-	-	-		-	-	-	-	-	-	-	-	-
Totals	192	-	1	-	71	31	59	-	323	31	912	1	558	385	1,850
1964															
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-		-	-	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-		-	-	-	-	-	- 1	-	-
New Brunswick	_	-	-	-	-				-	-	-		-		-
Quebec	х	-	-	-	х	х	х	-	х	x	х	-	Х	X	х
Ontario	135	-	1	-	58	28	48	-	242	28	692	5	486	304	1,486
Manitoba	х		-	-	x	x	x	-	х	x	х		x	х	х
Saskatchewan	-	-	-	-	-	-		-	-	-		-	-	-	-
Alberta	x	-	_	-	x	х	-	-	х	х	x	-	х	-	x
British Columbia	х	-	-	-	х	-	-	-	х	-	x		x	-	x
Yukon and Northwest Terri- tories	_	_	_	-		_	_	_	_	_		_	-	_	_
Totals	195		1		76	38	63		335	38	1.014	5	656	370	2.04

# TABLE 8. Employment and Payroll, 1963 and 1964

# TABLE 9. Production and Related Workers, - Manufacturing Activity, 1963 and 1964

	196	3	1964		
Month	Male	Female	Male	Female	
		numb	er		
Establishments reporting monthly detall (large establishments only):	1	1	1		
January	185	-	190	-	
February	185	-	190		
March	185	-	190	-	
April	185	-	193	-	
May	197	-	198	-	
June	199	_	207	-	
July	202		209	-	
August	198	-	208	-	
September	194	_	191	-	
October	192	-	193	-	
November	193	-	186	-	
December	192		187	-	
Averages	192	-	195	1.11	
Establishments reporting annual averages (small establishments only)					
Average for all establishments	192	-	195		

# TABLE 10. Inventories, 1964

		Manufa	cturing		Non- manufacturing		
Province	Materials, supplies, etc.	Goods in process	Finished goods of own manufacture	Total	Products or materials purchased for resale	Total inventories	
			book value	\$'000			
Opening:							
Newfoundland	-		-	_	-		
Prince Edward Island	-	dada.	-	~	-	-	
Nova Scotia	-	-					
New Brunswick	-	-	-	-	-	-	
Quebec	х	-	X	x	x	x	
Ontario	222	1,474	518	2.214	82	2.29	
Manitoba	x	х		x	х	х	
Saskatchewan	-	-		-	-	-	
Alberta	x	х	x	х		х	
British Columbia	х		х	х	-	х	
Yukon and Northwest Territories	-	-	-	-	-	-	
Totals	1,642	1, 519	856	4,017	104	4, 12	
Closing:							
Newfoundland	-	-	-	- 1	-	i Pre-	
Prince Edward island	-		-	-	-	-	
Nova Scotia	-	-	-		-	-	
New Brunswick	-	-	-		-	-	
Quebec	x	-	х	x	x	x	
Ontario	335	1,677	829	2.841	81	2.92	
Manitoba	x	_	x	x	x	x	
Saskatchewan	-			-		-	
Alberta	x	-	x	x	_	x	
British Columbia	x	_	x	x	_	x	
Yukon and Northwest Territories	-	-	_	-			
Totals	1.563	1.677	1.337	4.577	131	4, 70	

# TABLE 11. Purchased Fuel and Electricity Used in Manufacturing Activity, 1963 and 1964

	1963		1964	
Description	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
Large establishments reporting commodity detail:				
Bituminous coal:				
(a) From Canadian mines ton	-	-		-
(b) Imported	156	2	178	2
Sub-bituminous coal (from Alberta mines only)	-	-	-	-
Anthracite coal	-			-
Lignite coal		-	-	-
Coke		-	-	-
Gasoline (including gasoline used in cars and trucks) imp. gai.	76.045	27	51,315	18
Fuel oil including kerosene or coal oil	977.646	73	1,113,916	80
Wood	_	_		_
Gas:				
(a) Liquefied petroleum gases	16,000	3	85	
(b) Other manufactured gas	_	_	_	_
(c) Naturai gas	1,512	2	2.992	
Other fuel		2		
Electricity purchased kwh.	3,789,201	45	3.703.154	4'
Steam purchased				
2. Small establishments not reporting commodity detail:			1000	
Estimate for fuel and electricity				
		-		_
3. All establishments:				
Total fuel and electricity used		155		152

Description	1963		194 i	
Description	Quantity	Cost	Quantity	Cast
		\$'000		\$'000
1, Materials used:				
Olls for blending: Canadian Imp, gal. Imported	10, 338, 122 10, 088, 725	3, 339 3, 131	8,726,253 13,102,630	2,416 4,662
Grease for blending: Imported	314.394	36	446,175	50
Additives for lube oils and greases All other materials and components used <sup>1</sup>		1,684		1,717 1,570
2. Containers and other packaging materials and supplies used		2,750		2, 996
3. Operating, maintenance and repair supplies used (excluding fuel)		270		264
4. Amount paid out to others for work done on materials owned by establishments		70		93
Totals		12, 547		13, 768

## TABLE 12. Materials and Supplies - Manufacturing Activity, 1963 and 1964

<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 \$31,625 in 1963 and \$98,936 in 1964.

	1963		1964		
Description	Quantity	Vaiue	Quantity	Value	
		\$'000		\$'000	
I. Products:					
Oils, lubricating Imp. gal. Greases, lubricating lb. All other products	20,639,691 16,741.681	19,904 2,874 271	22, 354, 139 18, 814, 624 	21,950 3,083	
2. Amount received in payment for work done on materials and products owned by others		27		-	
Less adjustment for value of sales taxes, excise duties and outward transporta- tion charges which could not be deducted from individual commodity iteme de- scribed above		(348)		( 359)	
Net adjustment for establishments receiving progress payments		- 1		-	
Total adjusted value of shipments and work done	* * *	22, 728		25, 191	

### TABLE 13. Shipments of Goods of Own Manufacture, 1963 and 1964

## TABLE 14. Sales of Lubricating Oils and Greases by Class of Trade, 1964

Product	Retail gasoline pump outlets	Railways, excluding marine uses	Farms	Other	Total sales
	barreis of 35 Imperial gallons				
Lubricating oil:         Atiantic Provinces <sup>1</sup> Quebec         Ontario         Manitoba         Saskatchewan         Alberta         British Columbia         Northwest Territories and Yukon         Canada	102,490 292,449 416,011 51,530 66,816 79,261 94,882 648 <b>1,104,087</b>	20, 455 61, 672 41, 111 38, 079 1, 579 31, 463 20, 900 	9,902 33,651 62,721 39,998 105,945 100,678 21,193 225 <b>374,313</b>	175,235 405,312 834,448 53,832 81,574 202,306 244,106 9,612 <b>2,006,425</b>	308,082 793,084 1,354,291 183,439 255,914 413,708 381,081 10,485 <b>3,700,084</b>
Grease:2					
Atlantic Provinces <sup>1</sup> Quebec Ontario Manitoba Saskatchewan Alberta British Columbia Northwest Territories and Yukon	$\begin{array}{c} 6,148\\ 14,059\\ 21,420\\ 2,265\\ 2,300\\ 2,430\\ 3,170\\ 6\end{array}$	1,530 2,307 1,454 1,452 57 1,241 369	$512 \\ 1, 879 \\ 5, 091 \\ 7, 236 \\ 9, 018 \\ 6, 778 \\ 898 \\ 3 $	8,413 26,574 42,726 2,684 2,797 5,922 11,662 187	$\begin{array}{c} 16,603\\ 44,819\\ 70,691\\ 13,637\\ 14,172\\ 16,371\\ 16,099\\ 196\end{array}$
Canada	51, 798	8, 410	31, 415	100, 965	192, 588

Includes Newfoundland, Prince Edward Island, Nova Scotia and New Brunswick.
 Includes greases at 10 pounds to a gallon.

# List of Establishments classified to This Industry, 1964

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

Name	Location
Quebec:	
Shell Canada Ltd.	6010 Notre Dame St. E., Montreal
Tide Water Oll Company (Canada) Ltd.	50 DeLouvain St. W., Montreal
Ontario:	
Campbell Lubricating Specialties Ltd.	414 Eastern Ave., Toronto
Canadian D.A. Stuart Oil Co. Ltd.	43 Upton Rd., Scarborough
Houghton, E.F. and Co. Canada Ltd.	
Kendall Refining Co. of Canada Ltd.	2 Bradpenn Rd., Toronto
Kerns Lubricants Ltd.	
Ontario Lubricating Co. Ltd., The	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
Manitobe:	
Tide Water Oil Company (Canada) Ltd.	471 Madison St., Winnipeg
Alberta:	
Jet-Lube of Canada Ltd.	9925-77th Ave. S.W., Edmonton
British Columbia:	
Star Oil Refining Ltd.	1651 Island Hwg., Victoria
Wills Oil Co. Ltd.	

## 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 56 (4 digit) sub classes. At the Canada level, principal statistics are collected and compiled for 176 separate industries. They cannot all be published separately by province, however, because of the confidential nature of the data in certain provinces.

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

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

The results of the Census are presented in some 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 it's accounting boundaries (except income from investments such as rent, interest and dividends) and data on the different activities (manufacturing, trading in goods not of own manufacture, construction by own labour force, revenue from services, etc.) are requested to be reported separately. It should be noted that the statistics for separate activities are not completely consistent since some respondents cannot distinguish, in their records, materials, shipments and inventories relating solely to their own manufacturing activities. For example, inventory of goods purchased for re-sale may not be distinguishable from inventory of own manufactured goods. Complete consistency, therefore, can be obtained only at the "all operations" (total activity) level and for studies or statistical measures requiring accurate coordinated data, the "total" statistics should be used.

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

#### **Head Offices and Auxiliary Units**

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

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

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

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

#### Employees

## (a) Production and related workers - Manufacturing activities

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

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

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

### (c) Administrative and office employees

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

#### (d) Sales and distribution workers

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

#### (e) Total Employees

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

#### **Working Owners or Partners**

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

#### Salaries and Wages

Salaries and wages refer to gross earnings of employees **before** deductions for income tax and employees contributions to social services such as sickness, accident and unemployment insurance, pensions, etc. They include all salaries, wages, bonuses, profits shared with employees, the value of room and board where provided, commissions (paid to regular employees only) as well as any other allowance forming part of the worker's earnings. Payments for over-time are included. Figures on salaries and wages refer to the calendar year.

#### **Fuel and Electricity**

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

#### **Materials and Supplies**

### (a) Manufacturing activities

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

#### (b) Non-manufacturing activities

1. Purchases for re-sale as such

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

#### 2. Other materials and supplies used

Figures represent the cost of materials and supplies, if any, used in new construction and in the production of machinery and equipment (for the use of the reporting establishment) by the establishment's own employees. Included are materials used for any capital repairs and alterations carried out by the establishment's employees. Amounts paid to outside contractors for construction and repair work are not included nor is the cost of purchased machinery and equipment. Also included is the cost of office supplies not chargeable to fixed assets accounts and the cost of such other items of materials and supplies used as food, beverages and supplies for establishment-operated cafeterias and lunch counters, first aid and medical supplies, laboratory supplies, etc.

## Shipments

#### (a) General

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

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

#### (b) Shipments of goods of own manufacture

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

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

Shipments of goods of own manufacture of establishments which are coded to some other division of the Standard Industrial Classification (on the basis of principal activity) but which are engaged in manufacturing as a subsidiary activity are collected by means of the Commodity questionnaire referred to earlier. Such shipments together with shipments of goods of own manufacture of establishments forming the universe of manufacturing industries are compiled and recorded in the various industry publications.

#### (c) Shipments of goods not of own manufacture

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

#### (d) Other revenue

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

#### Inventories

#### (a) Manufacturing activities

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



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

#### (b) Non-manufacturing activities

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

#### Value Added

### (a) By manufacturing activities

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

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

The figures are compiled by deducting the cost of goods purchased for re-sale (adjusted for changes in the value of inventories of goods purchased for re-sale) and the cost of non-manufacturing materials and supplies used from the value of shipments of goods not of own manufacture, plus other revenue.

#### (c) By Total activities

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