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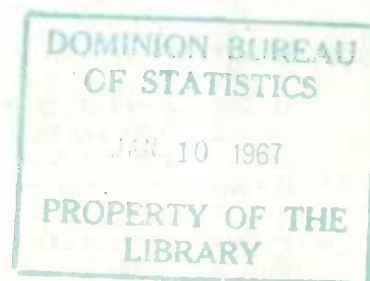
ANNUAL



MANUFACTURERS OF PHARMACEUTICALS AND MEDICINES

1964

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PUBLICATIONS

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A - Annual

O - Occasional

M - Monthly

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MANUFACTURERS OF PHARMACEUTICALS AND MEDICINES

1964

For statistical purposes the industry titled Manufacturers of Pharmaceuticals and Medicines in the revised Standard Industrial Classification covers the operations of establishments primarily engaged in manufacturing drugs and medicines. This industry includes manufacturers of patent and proprietary medicines; veterinary medicines; vitamin products; cod liver oil preparations; and biological products, such as antibiotics, bacterins, serums, vaccines; as well as establishments primarily engaged in manufacturing antibiotics. Establishments primarily engaged in grinding drugs and herbs are also included.

Value of shipments and other revenue of the Manufacturers of Pharmaceuticals and Medicines industry totalled \$236 million, an increase of \$15 million over 1963. This amount included shipments of medicinals and pharmaceuticals products valued at \$186 million, shipments of other products (secondary products) valued at \$21 million, and other revenue of \$29 million.

This industry's shipments of medicinals and pharmaceuticals products represented 90 per cent of its manufacturing revenue. Secondary products shipped in 1964 included toilet preparations, insecticides, baby foods, etc.

The cost of materials and supplies, etc. used in the production of goods of own manufacture increased by \$8 million. Cost of materials and supplies, etc. (inputs) in 1964 represented 30 per cent of the value of shipments of own manufacture (outputs), compared to 28.5 per cent in 1963.

SYMBOLS

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

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

TABLE 1. Principal Statistics, 1961-64

Year and province	Estab-lish-ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec-tricity	Cost of materials and supplies	Value of shipments of goods of own manu-facture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
No.		'000			\$'000				\$'000		\$'000		
1961													
Totals	174	4, 202	9, 143	13, 832	1, 037	49, 430	165, 201	116, 705	25	79	9, 826	46, 190	123, 577
1962													
Totals	167	4, 173	9, 058	14, 256	1, 085	51, 684	175, 249	123, 060	23	65	10, 057	48, 898	129, 503
1963													
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia.....	1	x	x	x	x	x	x	x	-	-	x	x	x
New Brunswick	2	x	x	x	x	x	x	x	x	x	x	x	x
Quebec	74	1, 607	3, 265	5, 754	613	23, 815	89, 664	65, 881	14	47	4, 963	26, 567	69, 001
Ontario	79	2, 520	5, 670	8, 972	556	29, 716	101, 349	71, 662	x	x	5, 243	25, 204	74, 344
Manitoba	5	x	x	x	x	x	x	x	-	-	x	x	x
Saskatchewan	-	-	-	-	-	-	-	-	-	-	-	-	-
Alberta	2	x	x	x	x	x	x	x	-	-	x	x	x
British Columbia	10	32	73	108	5	414	789	370	4	17	80	387	385
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	173	4, 203	9, 097	14, 987	1, 187	54, 483	193, 718	139, 307	25	76	10, 418	52, 708	145, 281
1964													
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-
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	x	x
Quebec	73	1, 629	3, 335	6, 016	629	27, 575	94, 539	67, 977	14	48	5, 028	27, 798	71, 733
Ontario	84	2, 511	5, 264	9, 493	646	33, 755	109, 855	76, 455	x	x	5, 408	27, 399	78, 516
Manitoba	5	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	10	27	51	94	5	303	694	345	4	20	75	358	406
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	175	4, 209	8, 740	15, 762	1, 288	62, 164	207, 016	146, 174	24	80	10, 644	56, 124	152, 148

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

Size group	Estab-lish-ments	Manufacturing activity						Total activity					
		Production and related workers			Cost of fuel and elec-tricity	Cost of materials and supplies	Value of shipments of goods of own manu-facture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
	No.		'000			\$'000			\$'000		\$'000		
1963													
Under \$10,000	27	4	8	5	—	52	126	74	12	18	20	29	74
\$ 10,000 to \$ 24,999	11	9	18	21	—	60	186	127	2	9	25	58	127
25,000 " 49,999	18	30	53	72	7	300	646	399	6	21	71	238	351
50,000 " 99,999	15	33	67	93	14	398	989	590	3	17	100	335	686
100,000 " 199,999	12	101	175	256	20	663	1,855	1,172	2	10	177	648	1,256
200,000 " 499,999	27	334	690	986	67	2,761	7,727	4,933	—	—	632	2,603	5,268
500,000 " 999,999	20	481	971	1,406	129	4,534	14,677	10,126	—	—	1,024	4,422	10,544
1,000,000 " 4,999,999	30	1,393	2,754	4,747	549	21,032	71,948	50,409	—	—	3,578	18,079	54,555
5,000,000 and over	13	1,818	4,361	7,401	401	24,684	95,563	71,537	—	—	4,600	25,119	72,510
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	191	1,177	(89)
Totals	173	4,203	9,097	14,987	1,187	54,483	193,718	139,307	25	76	10,418	52,708	145,281
1964													
Under \$10,000	27	5	7	7	—	52	130	78	12	20	23	30	78
\$ 10,000 to \$ 24,999	11	13	24	27	1	75	191	119	2	11	28	62	119
25,000 " 49,999	20	28	56	79	7	287	722	437	6	32	67	243	448
50,000 " 99,999	14	30	60	89	16	447	922	458	3	11	92	332	594
100,000 " 199,999	15	105	210	276	28	806	2,092	1,205	—	—	182	703	1,407
200,000 " 499,999	28	342	709	1,026	68	2,370	7,677	5,194	1	6	622	2,489	5,592
500,000 " 999,999	15	327	675	991	97	2,761	10,334	7,742	—	—	778	3,545	8,469
1,000,000 " 4,999,999	32	1,478	3,026	5,391	577	25,017	73,661	48,910	—	—	3,540	18,670	52,468
5,000,000 and over	15	1,881	3,972	7,876	513	30,349	111,286	82,031	—	—	5,122	28,880	83,083
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	190	1,168	(110)
Totals	175	4,209	8,740	15,762	1,288	62,164	207,016	146,174	24	80	10,644	56,124	152,148

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

Size group	Estab-lish-ments	Manufacturing activity						Total activity					
		Production and related workers			Cost of fuel and elec-tricity	Cost of materials and supplies	Value of shipments of goods of own manu-facture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
	No.		'000			\$'000			\$'000		\$'000		
1963													
Under \$10,000	34	14	26	29	1	216	335	117	13	24	39	76	119
\$ 10,000 to \$ 24,999	17	20	36	46	5	188	436	243	6	19	50	143	254
25,000 " 49,999	19	46	90	123	16	464	1,180	699	4	23	124	415	796
50,000 " 99,999	10	81	161	228	18	788	1,535	741	—	—	139	589	838
100,000 " 199,999	21	259	503	753	49	1,874	5,025	3,117	2	10	444	1,576	3,383
200,000 " 499,999	22	377	768	1,083	83	4,212	11,793	7,448	—	—	771	3,419	7,810
500,000 " 999,999	18	626	1,251	1,570	223	5,774	19,242	13,353	—	—	1,285	5,725	13,692
1,000,000 " 4,999,999	25	1,965	4,402	7,385	519	26,297	93,065	66,889	—	—	4,720	24,601	70,857
5,000,000 and over	7	815	1,859	3,370	274	14,670	61,106	46,699	—	—	2,655	14,987	47,622
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	191	1,177	(89)
Totals	173	4,203	9,097	14,987	1,187	54,483	193,718	139,307	25	76	10,418	52,708	145,281
1964													
Under \$10,000	34	14	23	22	1	125	253	127	13	24	44	67	127
\$ 10,000 to \$ 24,999	19	31	60	84	10	364	660	293	7	36	65	235	418
25,000 " 49,999	20	39	78	115	17	483	1,236	699	3	14	110	403	768
50,000 " 99,999	11	68	136	180	16	569	1,408	823	1	6	121	485	916
100,000 " 199,999	19	251	518	779	55	1,839	4,902	2,941	—	—	410	1,539	3,269
200,000 " 499,999	21	359	729	1,010	89	4,248	11,254	7,162	—	—	718	3,150	7,458
500,000 " 999,999	18	631	1,284	2,219	225	6,597	19,639	12,976	—	—	1,228	5,597	13,538
1,000,000 " 4,999,999	26	1,964	4,156	7,730	615	29,867	101,390	72,265	—	—	5,059	27,831	75,566
5,000,000 and over	7	852	1,756	3,622	260	18,073	66,275	48,888	—	—	2,699	15,648	50,197
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	190	1,168	(110)
Totals	175	4,209	8,740	15,762	1,288	62,164	207,016	146,174	24	80	10,644	56,124	152,148

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

Size group	Estab-lish-ments	Manufacturing activity						Total activity					
		Production and related workers			Cost of fuel and elec-tricity	Cost of materials and supplies	Value of shipments of goods of own manu-facture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
No.	'000	\$'000						'000	\$'000				
1963													
Under \$10,000	34	14	26	29	1	216	335	117	13	24	39	76	119
\$ 10,000 to \$ 24,999	16	20	36	46	5	180	411	226	5	18	49	132	226
25,000 " 49,999	17	36	69	95	11	412	1,014	589	5	24	79	293	602
50,000 " 99,999	11	70	142	201	19	681	1,418	732	-	-	145	540	845
100,000 " 199,999	21	220	431	615	44	1,686	4,610	2,873	2	10	390	1,426	2,976
200,000 " 499,999	22	417	840	1,212	85	4,341	11,301	6,843	-	-	815	3,445	7,314
500,000 " 999,999	18	592	1,185	1,851	181	5,272	17,874	12,542	-	-	1,186	5,340	12,717
1,000,000 " 4,999,999	27	2,019	4,509	7,568	567	27,025	95,550	68,685	-	-	4,869	25,290	72,949
5,000,000 and over	7	815	1,859	3,370	274	14,670	61,166	46,699	-	-	2,655	14,987	47,622
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	191	1,177	(89)
Totals	173	4,203	9,097	14,987	1,187	54,483	193,718	139,307	25	76	10,418	52,708	145,281
1964													
Under \$10,000	34	14	23	22	1	125	253	127	13	24	44	87	127
\$ 10,000 to \$ 24,999	16	23	45	65	6	246	504	266	6	27	45	147	265
25,000 " 49,999	19	30	62	92	16	439	1,075	632	4	21	75	318	644
50,000 " 99,999	14	83	163	217	19	650	1,591	863	1	6	165	582	1,062
100,000 " 199,999	17	185	384	551	44	1,446	3,999	2,459	-	-	308	1,179	2,595
200,000 " 499,999	23	415	842	1,202	99	4,552	11,686	7,265	-	-	802	3,379	7,761
500,000 " 999,999	19	650	1,320	2,267	206	7,041	20,487	13,427	-	-	1,275	5,873	14,027
1,000,000 " 4,999,999	26	1,957	4,145	7,724	637	29,592	101,146	72,247	-	-	5,041	27,761	75,580
5,000,000 and over	7	852	1,756	3,622	260	18,073	66,275	48,888	-	-	2,699	15,648	50,199
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	190	1,168	(110)
Totals	175	4,209	8,740	15,762	1,288	62,164	207,016	146,174	24	80	10,644	56,124	152,148

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

Size group	Estab-lish-ments	Manufacturing activity						Total activity					
		Production and related workers			Cost of fuel and elec-tricity	Cost of materials and supplies	Value of shipments of goods of own manu-facture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
No.	'000	\$'000						'000	\$'000				
1963													
Under 5 employed	56	28	54	69	9	551	1,322	774	22	63	90	248	789
5- 14 employed	26	110	217	318	29	959	3,106	2,114	1	3	219	898	2,213
15- 49 "	42	572	1,151	1,607	159	6,124	18,273	11,978	2	10	1,160	4,817	12,392
50- 99 "	22	791	1,551	2,567	236	11,251	36,379	24,928	-	-	1,718	7,956	26,615
100-199 "	14	813	1,641	2,816	275	12,614	46,155	33,474	-	-	2,099	10,925	34,982
200-499 "	10	998	2,197	4,029	366	14,993	62,490	47,755	-	-	2,972	15,951	49,226
500 employed and over	3	891	2,286	3,582	114	7,990	25,993	18,284	-	-	1,969	10,735	19,153
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	191	1,177	(89)
Totals	173	4,203	9,097	14,987	1,187	54,483	193,718	139,307	25	76	10,418	52,708	145,281
1964													
Under 5 employed	60	44	84	118	16	637	1,541	909	22	71	109	321	922
5- 14 employed	29	128	259	362	41	1,304	3,887	2,488	1	4	257	1,056	2,740
15- 49 "	35	464	959	1,381	130	5,520	16,650	11,079	1	6	956	4,282	11,641
50- 99 "	22	869	1,763	3,008	265	12,196	34,544	22,264	-	-	1,650	7,513	23,673
100-199 "	16	868	1,777	3,244	340	16,942	57,122	40,852	-	-	2,382	13,343	42,772
200-499 "	10	1,042	2,184	4,287	380	16,873	66,095	49,448	-	-	3,085	17,036	50,960
500 employed and over	3	794	1,713	3,362	117	8,693	27,177	19,134	-	-	2,015	11,404	20,150
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	190	1,168	(110)
Totals	175	4,209	8,740	15,762	1,288	62,164	207,016	146,174	24	80	10,644	56,124	152,148

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

Type of organization	Estab-lish-ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec-tricity	Cost of materials and supplies	Value of shipments of goods of own manu-facture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
	No.		'000		'000				'000		'000		
1963													
Individual ownerships	16	21	39	52	5	169	441	268	17	51	32	107	308
Partnerships	5	3	6	8	3	68	136	65	8	24	5	15	65
Incorporated companies	152	4,179	9,052	14,928	1,179	54,247	193,141	138,974	-	-	10,190	51,409	144,998
Co-operatives	-	-	-	-	-	-	-	-	-	-	-	-	-
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	191	1,177	(89)
Totals	173	4,203	9,097	14,987	1,187	54,483	193,718	139,307	25	76	10,418	52,708	145,281
1964													
Individual ownerships	14	19	34	47	3	197	372	177	15	53	22	54	188
Partnerships	6	5	10	17	6	96	204	109	9	28	7	22	110
Incorporated companies	155	4,185	6,695	15,697	1,279	61,871	206,440	145,889	...	...	10,425	54,880	151,960
Co-operatives	-	-	-	-	-	-	-	-	-	-	-	-	-
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	190	1,168	(110)
Totals	175	4,209	8,740	15,762	1,288	62,164	207,016	146,174	24	80	10,644	56,124	152,148

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

	Manufacturing activity		Non-manufacturing activities		Total activity	
	1963	1964	1963	1964	1963	1964
\$'000						
Output						
1. Shipments and other revenue	193,718	207,016	27,341	28,761	221,059	235,777
Inventories - Goods of own manufacture:						
Add closing - Goods in process	8,306	9,640	...	...	8,306	9,640
Finished goods	17,220	18,701	...	...	17,220	18,701
Deduct opening - Goods in process	8,231	8,272	...	...	8,231	8,272
Finished goods	16,036	17,458	...	...	16,036	17,458
2. Net inventory change	1,259	2,611	...	...	1,259	2,611
3. Gross output (1 + 2)	194,977	209,627	27,341	28,761	222,318	238,388
Input						
4. Purchases of goods not of own manufacture .....	...	...	18,988	18,801	18,988	18,801
Inventories - Goods not of own manufacture:						
Add opening .....	...	...	4,156	4,894	4,156	4,894
Deduct closing .....	...	...	4,593	4,581	4,593	4,581
5. Cost of goods sold (not of own manufacture) .....	...	...	18,551	19,114	18,551	19,114
6. Materials, supplies, etc.	54,483	62,164	2,816	3,673	57,299	65,837
7. Fuel and electricity	1,187	1,288	...	...	1,187	1,288
8. Gross input (5 + 6 + 7)	55,670	63,452	21,367	22,787	77,037	86,239
Value added (3 - 8)	139,307	146,174	5,974	5,974	145,281	152,148

TABLE 8. Employment and Payroll, 1963 and 1964

Year and province	Employees										Salaries and wages				
	Production and related workers				Adminis-trative and office		Sales and distribution		Total		Production and related workers		Adminis-trative and office	Sales and distri-bution	Total
	Manufacturing		Other		Male	Female	Male	Female	Male	Female	Manufacturing	Other			
	Male	Female	Male	Female											
	number										\$'000				
1963															
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	x	x	-	-	x	x	x	x	x	x	x	-	x	x	x
New Brunswick	x	x	-	-	x	x	x	x	x	x	x	-	x	x	x
Quebec	821	786	31	15	1,017	880	1,226	187	3,095	1,868	5,754	140	11,066	9,607	26,567
Ontario	1,265	1,255	17	14	849	833	895	115	3,026	2,217	8,972	107	9,439	6,686	25,204
Manitoba	x	x	-	-	x	x	x	x	x	x	x	-	x	x	x
Saskatchewan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alberta	x	x	-	-	x	x	x	x	x	x	x	-	x	x	x
British Columbia	17	15	-	-	19	10	14	5	50	30	108	-	164	114	387
Yukon and Northwest Terri-tories	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	2,129	2,074	48	29	1,912	1,747	2,165	314	6,254	4,164	14,987	247	20,843	16,631	52,708
1964															
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	x	x	-	-	x	x	x	x	x	x	x	-	x	x	x
New Brunswick	x	x	-	-	x	x	x	x	x	x	x	-	x	x	x
Quebec	832	797	15	13	1,063	899	1,215	194	3,125	1,903	6,016	103	11,718	9,961	27,798
Ontario	1,266	1,245	8	14	905	879	968	123	3,147	2,261	9,493	78	10,135	7,692	27,399
Manitoba	x	x	-	-	x	x	x	x	x	x	x	-	x	x	x
Saskatchewan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alberta	x	x	-	-	x	x	x	x	x	x	x	-	x	x	x
British Columbia	13	14	-	-	18	10	14	6	45	30	94	-	148	116	358
Yukon and Northwest Terri-tories	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	2,138	2,071	23	27	2,013	1,813	2,227	332	6,401	4,243	15,762	182	22,197	17,984	56,124

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

Month	1963		1964	
	Male	Female	Male	Female
	number			
Establishments reporting monthly detail (large establishments only):				
January	1,973	1,841	1,974	1,877
February	1,975	1,846	1,995	1,898
March	1,982	1,838	2,020	1,931
April	1,976	1,904	2,032	1,942
May	1,998	1,976	2,069	1,943
June	2,019	1,963	2,060	1,995
July	2,013	1,958	2,052	1,950
August	2,040	1,963	2,077	1,968
September	2,005	2,002	2,044	2,016
October	2,026	2,007	2,049	2,009
November	2,010	1,958	2,049	1,990
December	2,006	1,910	2,049	1,941
Averages	2,016	1,928	2,041	1,894
Establishments reporting annual averages (small establishments only)	113	146	97	177
Average for all establishments	2,129	2,074	2,138	2,071

TABLE 10. Inventories, 1964

Province	Manufacturing				Non-manufacturing	Total inventories
	Materials, supplies, etc.	Goods in process	Finished goods of own manufacture	Total	Products or materials purchased for resale	
book value \$'000						
Opening:						
Newfoundland	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-
Nova Scotia	x	x	x	x	x	x
New Brunswick	x	x	x	x	x	x
Quebec	7,066	2,584	7,338	16,988	2,535	19,523
Ontario	8,612	5,666	9,756	24,034	2,200	26,233
Manitoba	x	x	x	x	x	x
Saskatchewan	-	-	-	-	-	-
Alberta	x	x	x	x	x	x
British Columbia	142	-	142	284	-	284
Yukon and Northwest Territories	-	-	-	-	-	-
Totals	16,014	8,272	17,458	41,743	4,894	46,637
Closing:						
Newfoundland	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-
Nova Scotia	x	x	x	x	x	x
New Brunswick	x	x	x	x	x	x
Quebec	7,637	3,639	7,925	19,201	2,526	21,727
Ontario	9,994	5,979	10,444	26,416	1,972	28,388
Manitoba	x	x	x	x	x	x
Saskatchewan	-	-	-	-	-	-
Alberta	x	x	x	x	x	x
British Columbia	99	-	99	199	-	199
Yukon and Northwest Territories	-	-	-	-	-	-
Totals	17,991	9,640	18,701	46,332	4,581	50,913

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

Description	1963		1964	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
I. Large establishments reporting commodity detail:				
Bituminous coal:				
(a) From Canadian mines	ton	287	269	4
(b) Imported	"	3,079	1,964	27
Sub-bituminous coal (from Alberta mines only)	"	-	-	-
Anthracite coal	"	50	1	-
Lignite coal	"	-	-	-
Coke	"	-	-	-
Gasoline (including gasoline used in cars and trucks)	Imp. gal.	610,343	645,730	264
Fuel oil including kerosene or coal oil	"	3,467,082	3,493,207	319
Wood	cord	-	-	-
Gas:				
(a) Liquefied petroleum gases	Imp. gal.	23,401	19,798	4
(b) Other manufactured gas	M cu. ft.	-	-	-
(c) Natural gas	"	91,279	146,781	106
Other fuel .....	...	4	...	3
Electricity purchased	kwh.	37,397,898	43,275,288	475
Steam purchased .....	...	...	...	32
2. Small establishments not reporting commodity detail:				
Estimate for fuel and electricity .....	...	56	...	55
3. All establishments:				
Total fuel and electricity used .....	...	1,187	...	1,288

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

	1963		1964		
	Quantity	Cost \$'000	Quantity	Cost \$'000	
1. Materials used:					
Acetone	lb.	307,312	30	1,061,581	89
Acetylsalicylic acid	"	1,221,224	700	1,355,967	749
Benzoic acid	"	6,140	3	6,092	3
Chalk, ground	"	94,449	2	166,546	5
Chalk, precipitated	"	176,938	12	152,598	11
Citric acid	"	459,630	131	572,472	186
Bismuth salts	"	8,893	26	14,791	49
Caffeine	"	43,594	79	45,180	79
Camphor	"	59,266	37	58,752	38
Castor oil	"	33,256	10	47,820	15
Cod liver oil	"	144,770	34	147,505	34
Essential oils	"	...	157	...	167
Ethyl alcohol (including tax)	Imp. gal.	185,172	366	188,778	410
Gelatine capsules (for use in compounding)	"	...	527	...	656
Glucose	lb.	1,619,002	127	1,463,987	122
Glycerine, refined	"	947,326	265	976,419	282
Gums:					
Arabic	"	130,046	35	117,049	31
Karoya	"	82,412	40	70,968	44
Other	"	14,401	20	21,381	26
Iodine, crude	"	2,246	5	9,266	13
Herbs, roots and vegetable drugs:					
Raw or crude (ground or milled)	"	...	113	...	178
Extracts (powders and liquids)	"	...	200	...	114
Isopropyl alcohol	lb.	522,305	57	914,371	107
Magnesium sulphate (Epsom salts)	"	815,714	31	1,026,929	40
Malt extract	"	104,206	16	97,973	15
Menthol	"	26,221	149	25,825	125
Mercury metal	"	760	2	618	2
Methyl alcohol (methyl hydrate)	Imp. gal.	16,053	16	44,865	37
Mineral oil, white	lb.	1,158,464	152	1,108,572	149
Penicillin	"	...	1,470	...	1,923
Petroleum jelly	lb.	633,390	85	674,263	91
Phenacetin	"	185,558	148	244,626	183
Phenobarbital and other barbiturates	"	37,397	176	50,537	236
Potassium iodide	"	14,139	22	13,710	23
Sodium bicarbonate	"	1,152,222	46	982,849	40
Sodium bromide	"	51,889	18	51,871	19
Sodium sulphate	"	306,427	24	302,081	19
Starch	"	571,049	53	728,330	70
Stearic acid	"	252,758	55	288,590	65
Sulpha drugs	"	...	311	...	273
Sugar	lb.	4,876,186	588	5,136,704	592
Talc	"	744,359	39	715,630	42
Tartaric acid	"	90,925	42	92,289	38
Vitamins:					
A	"	...	407	...	384
B ¹ (thiamin chloride)	"	...	34	...	57
B ² (riboflavin)	"	...	79	...	176
C (ascorbic acid)	"	...	232	...	244
D	"	...	22	...	71
Wax (beeswax, paraffin, etc.)	lb.	79,257	44	56,153	34
All other materials and components used ¹	"	...	26,947	...	31,647
2. Containers and other packaging materials and supplies used					
3. Operating, maintenance and repair supplies used (excluding fuel)					
4. Amount paid out to others for work done on materials owned by establishments					
Totals .....		...	54,483	...	62,164

¹ No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. These estimated costs were \$2,325,789 in 1963 and \$1,756,617 in 1964.

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

Description	Value	
	1963	1964
	\$'000	
1. Products:		
Pharmaceuticals and medicines:		
Registered as patent medicines and sold without all ingredients declared	24,542	25,180
Antibiotics and preparations:		
Penicillin preparations	5,682	7,041
Streptomycin preparations	256	225
Penicillin-streptomycin combinations	388	442
Other antibiotics and preparations thereof ¹	12,887	13,500
Sex hormones	4,327	6,568
Sulphonamide (sulpha) preparations with or without other active ingredients	2,431	2,361
Vitamins and preparations:		
Vitamins in bulk	2	2
Vitamins preparations in which the principal active ingredients are vitamins	13,356	12,124
Biologicals and vaccines (excluding sex hormones)	4,791	3,992
Oral antiseptics	2,727	2,703
Ethical specialties for human use, not elsewhere specified	81,974	87,291
All other human medicines	12,772	15,483
Veterinary medicines:		
Biologicals and vaccines	1,034	1,143
Antibiotic preparations and combinations	2,819	3,024
Sulphonamide preparations	171	158
All other veterinary medicines	3,194 ²	3,005
Miscellaneous pharmaceuticals and medicines (including medicinal chemicals and feed supplements)	5,945 ³	6,451
Total pharmaceuticals and medicines	179,296	190,691
Disinfectants	612	427
Insecticides	396	539
Flavouring extracts	375	206
Toilet preparations	8,589	9,045
All other products ³	6,464	8,924
2. Amount received in payment for work done on materials and products owned by others	2,058	2,117
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above	(4,071)	(4,821)
Net adjustment for establishments receiving progress payments	—	(114)
Total adjusted value of shipments and work done	193,718	207,016

¹ Includes penicillin, streptomycin and other antibiotics as well as antibiotic preparations not elsewhere specified.

² Included with "All other human medicines".

³ Includes soap, packaged goods, fountain supplies and syrup and other such articles.

Note: Data given in this table are for the Manufactures of Pharmaceuticals and Medicines Industry ONLY and represent only the production of the firms classified to this group. For the total Canadian output of medicinals see Table 14.

TABLE 14. Shipments of Selected Goods of Own Manufacture - All Industries, 1955 and 1964
(Includes shipments from other industries which manufacture, as a secondary activity, the commodities listed)
Pharmaceuticals and Medicines

Year	Shipments
	\$'000
1955	100,878
1956	110,002
1957	126,297
1958	139,621
1959	154,334
1960	159,390
1961	165,551
1962	176,502
1963	192,510
1964	203,568

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
Nova Scotia:	
Minards Liniment Co., Div'n. of Beecham Products Ltd.	Yarmouth
New Brunswick:	
Row and Company	St. Stephen
Quebec:	
Abbott Laboratories Limited	5400 Côte de Liesse Rd., Town of Mount Royal
Ayerst, McKenna and Harrison Limited	1025 Laurentien Blvd., St. Laurent
Bérubé Produits	St. Alexander, Kemouraska
Bristol Laboratories of Canada Ltd.	Candiac
Burroughs Wellcome and Co. (Canada) Ltd.	60 Riverview Ave., LaSalle
Canada Drug Ltée	8480 rue St. Laurent, Montreal
Chemway (Canada) Ltd. and Crookes-Barnes Canada Ltd.	Ste-Thérèse-de-Blainville
Civa Co. Ltd.	200 Metropolitan Blvd., Dorval
Cie des Produits Biologiques Europa Ltée	397 St. Joseph Blvd. Ouest, Montreal
Cie des Produits Homah Inc.	553 A Leclaire, Montreal
Cie Mathieu, J.L., Ltée	66 rue Albert, Sherbrooke
Cie Paula Ltée, La	21 St. Paul E., Montreal
Compagnie Pharmaco-Chimique Inc.	12253 Laurentian Blvd., Montreal
Corporation Pharmaceutique Française Ltée	200 rue Vallée, Montreal
Cyanamide of Canada Ltd.	635 Dorchester Blvd., Montreal
Daillac Ltée	Rue Du Bassin, Montmagny
(Dr.) Daniel's, A.C., Co.	Rock Island
Delmar Chemicals Limited	9321 Airlie St., LaSalle
Denver Chemical Mfg. Co., The	8465 Devonshire Rd., Montreal
Desbergers Limited	8480 St. Laurent Blvd., Montreal
Dominion Herb Distributors Inc.	Pointe Claire
Eri Pharmaceutiques Ltée	8699- 8th Ave., St. Michel
Esteye Company of Canada	7705- 18th Ave., St. Michel
Ex-Lax Limited	8510 Jeanne Mance St., Montreal
Fortin, Sapin Inc.	Robertsonville
Frasier, Thornton and Co. Ltd.	Cookshire
Frosst, Charles E., and Co.	350 Selby St., Westmount
Harris, J.A., Limited	1010, rue Ogilvy, Montreal
Herboristerie du Québec Enrg.	Petite Rivière-Nord
Hoffman-Laroche Limited	1956 Bourbon St., St. Laurent
Horner, Frank W., Ltd.	5485 Ferrier St., Town of Mount Royal
Indiana Herbs Ltd.	Ste-Dorothee
Injecta Corporation Ltd.	10310 Des Récollets St., Montreal North
Innerclean Co., The	809 William St., Montreal
Laboratories Atlas Enrg.	4101 Notre Dame St. E., Montreal
Laboratories Bilophen Laboratories Inc.	1150, boul. St. Joseph E., Montreal
Laboratoire Demers Ltée	Ste-Foy
Laboratoire Desautels Ltd.	3580 Jarry St. E., Montreal
Laboratoire des Spécialités Pharmaceutiques et Médicaments Brevetés Inc.	Amos
Laboratoire Du Cheptel Ltée	Beloeil
(Dr.) Laboratoire, Léo, Lorrain Ltée	203 Place Youville, Montreal
Laboratoire Octo Ltée	920 Port Royal Est., Montreal
Laboratoire Ortho-Médico Enr.	1647 Fleury St. Est., Montreal
Laboratoires St. Hubert Ltée	6629 rue St. André, Montreal
(Dr.) Lambert, J.O., Limitée	2234 St. Antoine St., Montreal
Laurentian Laboratories Ltd.	428 St. Jean Baptiste, Montreal
Medicolab Inc.	3580 rue Jarry, St.-Michel
Médicaments St-Germain, Les	823 rue Laurier - E., Montreal
Merck Sharp and Dohme of Canada Ltd.	560 Decourcelle St., Montreal
Mount Royal Chemicals Ltd.	210 Metropolitan Blvd., Dorval
Mowatt and More Limited	80 Prince St., Montreal
Multilab Inc.	1386 Craig Est., Montreal
Nirvana Compagnie Ltée	St-Romuald D'Etchemin
Nordic Biochemicals Ltd.	4324 St-Laurence Blvd., Montreal
Poulenc Limitée	8580 rue Esplanade, Montreal
Produits Apicoles Enr., Ltd.	2355 Beaconsfield Ave., Montreal
Produits Gardo Ltée	77, rue Foster, Waterloo
Produits Phyto Enr.	Pointe-du-Lac
Rawleigh, W.T., Co. Ltd., The	4005 Richelieu St., Montreal
Remèdes Herbo Remedies Inc.	4848 Parc Ave., Montreal
Robapharm (Canada) Ltd.	St-Jérôme
Robinson, B.N., Co. Ltd.	Granby
Rougier Inc.	2055 Favard St., Montreal
Sandoz (Canada) Ltd.	Dorval
(Dr.) Sirois, N.A., Enrg.	Ste-Anne-de-la-Pocatière
Scientific Concentrates Co.	St. Mathias
Schering Corporation Ltd.	3535 New Metropolitan Blvd., Pointe Claire
Smith-Kline and French Inter-America Corpn.	300 Laurentian Blvd., St. Laurent
Société des Produits Persans, La	8258 Drolet, Montreal
Squibb, E.R., and Sons Ltd.	2201 Côte de Liesse Rd., St. Laurent
Trans-Canada Dermapeutics Ltd.	Cote St-Luc
Vanko Corporation Inc.	10541 DeLormier Ave., Montreal
Watkins Products Inc.	350 St. Roch St., Montreal
Ontario	
Aerosol Custom Pharmaceuticals Ltd.	24 Sable St., Toronto
Allied Veterinary Products Ltd.	11 Princess St., Kingston
Anca Laboratories, Divn of Wander Co. of Canada Ltd.	1377 Laurence Ave. E., Don Mills
Astra Pharmaceuticals (Canada) Ltd.	Cooksville
Baxter Laboratories of Canada Ltd.	Alliston
Block Drug Co. (Canada) Ltd.	36 North Line Rd., Toronto
Brent Laboratories Ltd.	62 Avenue Rd., Toronto
British Drug House (Canada) Ltd. The	Barclay Ave., Toronto
Buckley, W.K., Ltd.	559 College St., Toronto
Canada Duphar Ltd.	1 Wilton Grove Rd., London
Canada Pharmacal Co. Ltd.	50 Piccadilly, London
Canadian Nutritional Products Ltd.	283 Danforth Rd., Scarborough

List of Establishments classified to This Industry, 1964 - Concluded

Name	Location
Ontario - Concluded:	
Chemlek Laboratories of Canada Ltd.	#18 Highway, Windsor
Cleveland's Drug Ltd.	2299 Dundas St. W., Toronto
Connaught Laboratories	University of Toronto, Spadina Cres., Toronto
Craig, L.D., Ltd.	451 Alliance Ave., Toronto
Cress Laboratories Ltd.	Kitchener
Cypo Lab. Pharmaceutical Products Canada Ltd.	11 Belfield Rd., Rexdale
Druggist' Corporation Limited	15 Ontario St., Toronto
Elmo Corn Salve	464 Winona Dr., Toronto
Fidelity Pharmaceuticals Ltd.	11 Yorkville, Toronto
Fleming Brothers Ltd.	Pictou
Foster-Dack Co. Ltd., The	337 King St., Toronto
Fulford, George T., Co. Ltd.	260 Richmond St. W., Toronto
Galt Chemical Products Ltd.	Beverly & Kerr Sts, Galt
Gilbert, Jules R., Ltd.	3701 Dundas St. W., Toronto
Glaxo-Allenburys (Canada) Ltd.	52 Bator Rd., Weston
Gryphon Laboratories Limited	20 Advance Rd., Toronto
Hanford, G.C., Mfg. Co. Ltd.	Brockville
Ipsco Products (Canada) Ltd.	Box 221, Postal Station E, Toronto
Jamison, C.E., and Co. (Dominion) Ltd.	414 Riverside Drive W., Windsor
K-Vet Laboratories Ltd.	35 Water St., Galt
Koegler Laboratories	22 MacDougal Ave., Waterloo
Lewis-Howe Company	1415 Janette Ave., Windsor
Lilly, Eli, and Company (Canada) Ltd.	3650 Danforth Ave., Scarborough
Liquifeeds Ltd.	Winnett St., Woodstock
Luscoe Products Limited	559 Bathurst St., Toronto
Marlatt, G.W., and Company	73 Nipigon, Willowdale
Marz Laboratories Ltd.	Tecumseh
Metholatum Inter-American Inc.	Fort Erie
Merrell, Wm. S. Co., Divn of Richardson, Merrell Inc.	2 Norelco Drive, Weston
Michaud Chemicals Ltd.	Weston
Micro Chemicals Ltd.	20 Advance Rd., Toronto
Milburn, T., Co. Ltd., The	888 Dupont St., Toronto
Miles Laboratories Ltd.	1131 Bloor St. W., Toronto
Moore-Thompson-Clinger Ltd.	1890 Brampton St., Hamilton
Mulveney's, R.L., Remedies Ltd.	199 Ossington Ave., Toronto
Nixon Laboratories Ltd.	Orangeville
Norwich Pharmacal Co. Ltd.	Box 790, Paris
Novocol Chemical Mfg. Co. of Canada Ltd.	52 Chauncey Ave., Toronto
Noxzema Chemical Co. of Canada Ltd., The	77 Park Lawn Rd., Toronto
Nu-Age Bioganic Prod. Canada Ltd.	101 Shorncliffe Rd., Toronto
Omega Laboratories Ltd.	354 Olivewood Rd., Toronto
Ortho Pharmaceutical (Canada) Limited	19 Green Belt, Don Mills
Ottway, Co., Ltd.	170 Danforth Ave., Toronto
Parke Davis and Co. Ltd.	Brockville
Penick Canada Ltd.	124 Pharmacy Ave., Scarborough
Penslar Co. Limited, The	Tecumseh
Pfizer Corporation	Arnprior
Pharma Pak Limited	231 Bartley Drive, Toronto
Pitman-Moore, Divn. of Dow Chemical of Canada Ltd.	14 Dyas Rd., Don Mills
Powell, H., Chemical Co. Ltd.	11 Yorkville Ave., Toronto
Rainer, H.G., Co.	101 Shorncliffe Rd., Toronto
Rexall Drug Company Limited	Cooksville
Robert's Biological Laboratory Ltd.	331 Bartlett Ave., Toronto
Rundle, Geo. H., and Son Co. Ltd., The	320 Pitt St., Windsor
Saunders, W.E., Ltd.	335 Richmond St., London
Scherer, R.P., Ltd.	1370 Argyle Rd., Windsor
Seneca Laboratories Ltd.	Downsview
Shaw Research	Omeme
Sherman Laboratories	3990 Malden Rd., Windsor
Sirol of Canada Ltd.	130 Pitt St. W., Toronto
Sterling Drug Ltd.	Aurora
Strong Cobb Arner of Canada Ltd.	Fort Erie
Templeton's Limited	56 Colborne St., Toronto
Uniphar (Canada) Ltd.	2 Thorncliffe Park Dr., Toronto
Upjohn Co. of Canada, The	Don Mills
Vetex (Canada) Ltd.	Downsview
Vick Chemical Inc.	2 Norelco Drive., Weston
Wampole, Henry K., and Co. Ltd.	Perth
Warner-Lambert Canada Ltd.	727 King St. W., Toronto
Whitehall Laboratories Ltd.	Cooksville
Whitemoyer Laboratories Ltd.	Port Credit
Wyeth, John, and Bros. (Canada) Ltd.	2109 Ottawa St., Windsor
Manitoba:	
(Dr.) Fahrney, Peter, and Sons Co., The	256 Stanley St., Winnipeg
McMillan and Bell Ltd.	404 Graham Ave., Winnipeg
Rawleigh, W.T., Co. Ltd., The	587 Henry Ave., Winnipeg
Watkins Products Inc.	E. Higgins and Annabella Sts., Winnipeg
(Dr.) White Medicine Co. Ltd.	373 Henderson Hwy., Winnipeg
Alberta:	
Anderson and Sons Laboratories Ltd.	14226 Stony Plain Rd., Edmonton
British Columbia:	
Gilead Mfg. Co.	Chilliwack
Greens A.N.R. Ltd.	862 Fisgard St., Victoria
Kent Chemicals Ltd.	1292 Franklin St., Vancouver
Nephron Agency of Canada	1921 Kingsway, Vancouver
Nu Life Pet Remedies Ltd.	1820 West 3rd Ave., Vancouver
Perry Bowell Medications Ltd.	633 Clarkson St., New Westminster
Reclu Drug Co. Ltd.	3501 Fraser St., Vancouver
Stanley Drug Products Ltd.	452 West Broadway, Vancouver
Urist Chemical Laboratories	696 Clark Drive, Vancouver
Western Laboratories Limited	2780 East Broadway, 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 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 its accounting boundaries (except income from investments such as rent, interest and dividends) and data on the different activities (manufacturing, trading in goods not of own manufacture, construction by own labour

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

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

Head Offices and Auxiliary Units

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

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

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

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

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

Employees

(a) Production and related workers – Manufacturing activities

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

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

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

(c) Administrative and office employees

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

(d) Sales and distribution workers

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

(e) Total Employees

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

Working Owners or Partners

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

Salaries and Wages

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

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

Fuel and Electricity

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

Materials and Supplies

(a) Manufacturing activities

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

(b) Non-manufacturing activities

1. Purchases for re-sale as such

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

2. Other materials and supplies used

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

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

Shipments

(a) General

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

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

(b) Shipments of goods of own manufacture

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

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

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

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

(c) Shipments of goods not of own manufacture

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

(d) Other revenue

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

Inventories

(a) Manufacturing activities

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

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

(b) Non-manufacturing activities

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

Value Added

(a) By manufacturing activities

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

(b) By non-manufacturing activities

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

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

(c) By Total activities

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

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