

CATALOGUE No.

46-210

ANNUAL

FEB 15 1966



PAINT AND VARNISH MANUFACTURERS 1963

ANNUAL CENSUS OF MANUFACTURES

Published by Authority of
The Minister of Trade and Commerce

DOMINION BUREAU OF STATISTICS
Industry Division

February 1966
6521-863

Price: 50 cents

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A — Annual

O — Occasional

M — Monthly

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PAINT AND VARNISH MANUFACTURERS

1963

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

For statistical purposes the industry titled Paint and Varnish Manufacturers in the revised Standard Industrial Classification covers the operations of establishments primarily engaged in manufacturing paints, varnishes, lacquers, enamels and shellac. This industry also includes establishments primarily engaged in manufacturing products such as putty, filler, oil stains and thinners.

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

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

Year and province	Establishments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and electricity	Cost of materials and supplies	Value of shipments of goods of own manufacture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1961													
Totals	136	3,088	6,134	11,839	1,050	75,839	152,228	76,844	19	80	7,591	34,668	78,837
1962													
Newfoundland	1	84	216	308	24	1,400	3,054	1,838	—	—	144	619	1,859
Prince Edward Island	—												
Nova Scotia	2												
New Brunswick	1	157	329	495	52	4,209	7,871	3,619	—	—	332	1,380	3,787
Quebec	41												
Ontario	71												
Manitoba	6	287	580	1,243	89	6,819	14,707	7,591	x	x	810	3,418	7,863
Saskatchewan	1												
Alberta	2												
British Columbia	17	—	—	—	—	—	—	—	—	—	—	—	—
Yukon and Northwest Territories	—												
Totals	142	3,057	6,263	12,270	1,073	79,713	160,462	80,640	21	83	7,525	35,326	83,017
1963													
Newfoundland	1	x	x	x	x	x	x	x	—	—	x	x	x
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	2	x	x	x	x	x	x	x	—	—	x	x	x
New Brunswick	—	—	—	—	—	—	—	—	—	—	—	—	—
Quebec	41	782	1,618	3,158	229	21,622	46,097	24,284	x	x	2,455	11,747	25,472
Ontario	72	1,716	3,579	7,472	701	50,078	97,435	46,955	13	40	3,744	19,377	47,672
Manitoba	6	140	292	463	45	4,168	7,581	3,299	—	—	299	1,272	3,436
Saskatchewan	1	x	x	x	x	x	x	x	—	—	x	x	x
Alberta	4	5	9	12	2	109	174	73	—	—	18	47	79
British Columbia	18	296	618	1,286	89	8,397	16,673	8,764	x	x	825	3,486	9,287
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	145	3,033	6,328	12,710	1,091	85,967	171,752	85,300	20	80	7,511	36,618	87,906

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000				\$'000			\$'000		\$'000	
1962													
Under \$10,000	8	—	—	—	2	22	45	22	6	17	3	2	23
\$ 10,000 to \$ 24,999	5	2	4	6	2	49	96	47	2	4	6	17	51
25,000 " 49,999	11	17	24	36	5	203	397	189	6	22	29	76	200
50,000 " 99,999	20	32	61	110	19	776	1,473	684	5	30	75	283	697
100,000 " 199,999	18	79	183	320	31	1,596	2,794	1,169	1	6	153	655	1,263
200,000 " 499,999	20	148	288	518	54	3,856	6,749	2,876	1	5	319	1,454	2,979
500,000 " 999,999	19	281	600	1,104	109	6,614	13,321	6,618	—	—	595	2,893	6,897
1,000,000 " 4,999,999	34	1,387	2,990	5,731	528	40,508	77,367	36,818	—	—	3,255	15,343	38,165
5,000,000 and over	7	1,111	2,114	4,446	324	26,089	58,219	32,216	—	—	2,213	9,758	32,394
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	877	4,845	348
Totals	142	3,057	6,263	12,270	1,073	79,713	160,462	80,640	21	83	7,525	35,326	83,017
1963													
Under \$10,000	8	—	—	—	—	22	40	17	6	9	2	2	17
\$ 10,000 to \$ 24,999	6	5	10	10	—	78	120	52	2	5	9	20	52
25,000 " 49,999	10	11	20	31	4	187	345	160	4	18	25	63	170
50,000 " 99,999	20	36	70	121	21	866	1,477	618	5	30	89	364	662
100,000 " 199,999	18	76	152	269	25	1,502	2,654	1,184	2	13	149	600	1,216
200,000 " 499,999	24	191	394	734	74	4,636	8,152	3,309	1	5	397	1,817	3,411
500,000 " 999,999	18	266	556	1,005	93	6,964	13,071	5,900	—	—	538	2,623	6,146
1,000,000 " 4,999,999	33	1,300	2,775	5,446	497	39,437	76,121	36,297	—	—	3,055	15,001	37,912
5,000,000 and over	8	1,148	2,351	5,092	377	32,275	69,772	37,763	—	—	2,353	11,087	37,999
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	894	5,042	321
Totals	145	3,033	6,328	12,710	1,091	85,967	171,752	85,300	20	80	7,511	36,618	87,906

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000				\$'000			\$'000		\$'000	
1962													
Under \$10,000	11	—	—	—	2	51	100	48	7	20	5	12	49
\$ 10,000 to \$ 24,999	15	21	32	49	7	286	548	255	10	32	37	95	278
25,000 " 49,999	21	45	90	160	25	945	1,735	785	2	20	107	415	849
50,000 " 99,999	18	79	176	305	28	1,783	3,118	1,317	1	8	148	616	1,334
100,000 " 199,999	17	139	284	494	51	3,690	6,302	2,579	1	5	262	1,216	2,680
200,000 " 499,999	20	320	665	1,269	123	8,496	15,141	6,501	—	—	691	3,423	6,711
500,000 " 999,999	15	514	1,130	2,067	187	12,877	24,246	11,559	—	—	1,164	5,353	12,187
1,000,000 " 4,999,999	25	1,939	3,685	7,926	649	51,584	109,271	57,615	—	—	4,234	19,350	58,582
5,000,000 and over	...	...	...	...	...	...	...	...	...	...	877	4,845	348
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	877	4,845	348
Totals	142	3,057	6,263	12,270	1,073	79,713	160,462	80,640	21	83	7,525	35,326	83,017
1963													
Under \$10,000	13	3	6	4	—	92	145	54	8	14	9	17	54
\$ 10,000 to \$ 24,999	18	24	43	67	12	528	817	288	8	31	49	133	313
25,000 " 49,999	17	40	77	138	17	848	1,473	637	2	25	93	378	673
50,000 " 99,999	17	93	186	338	28	1,840	3,046	1,169	1	6	157	647	1,183
100,000 " 199,999	18	147	307	547	55	3,461	6,196	2,417	1	5	304	1,315	2,479
200,000 " 499,999	23	356	748	1,376	132	9,808	16,984	7,095	—	—	699	3,715	7,429
500,000 " 999,999	15	502	1,071	2,028	197	13,977	25,323	11,013	—	—	1,132	5,370	11,692
1,000,000 " 4,999,999	21	1,264	2,657	5,482	474	38,253	80,069	41,782	—	—	3,167	15,099	42,918
5,000,000 and over	3	604	1,231	2,731	178	17,160	37,698	20,845	—	—	1,007	4,903	20,845
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	894	5,042	321
Totals	145	3,033	6,328	12,710	1,091	85,967	171,752	85,300	20	80	7,511	36,618	87,906

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wagee	
	No.		'000			'000				'000		'000	
1962													
Under \$10,000	11	—	—	—	2	51	100	48	7	20	5	12	49
\$ 10,000 to \$ 24,999	14	19	28	42	7	251	489	232	10	32	33	83	248
25,000 " 49,999	21	41	81	144	21	690	1,654	751	2	20	92	348	763
50,000 " 99,999	18	82	181	315	29	1,780	3,119	1,315	1	6	151	624	1,336
100,000 " 199,999	17	133	273	469	54	3,594	6,040	2,431	1	5	258	1,204	2,565
200,000 " 499,999	21	329	684	1,306	125	8,685	15,543	6,689	—	—	711	3,507	6,940
500,000 " 999,999	13	443	981	1,775	155	10,667	20,100	9,732	—	—	942	4,350	9,936
1,000,000 " 4,999,999	27	2,010	4,035	8,218	880	53,794	113,417	59,441	—	—	4,456	20,352	60,832
5,000,000 and over													
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	877	4,845	348
Totals	142	3,057	6,263	12,270	1,073	79,713	160,462	80,640	21	83	7,525	35,326	83,017
1963													
Under \$10,000	13	3	8	4	—	92	145	54	8	14	9	17	54
\$ 10,000 to \$ 24,999	17	22	41	63	11	477	748	268	6	31	44	121	278
25,000 " 49,999	16	37	70	126	14	799	1,358	570	2	25	71	279	591
50,000 " 99,999	19	98	196	354	31	1,940	3,233	1,256	1	6	184	757	1,300
100,000 " 199,999	18	147	307	547	55	3,461	6,196	2,417	1	5	304	1,315	2,479
200,000 " 499,999	22	338	711	1,317	125	9,443	16,069	6,597	—	—	633	3,436	6,816
500,000 " 999,999	14	452	967	1,802	170	12,040	22,192	9,745	—	—	987	4,648	10,014
1,000,000 " 4,999,999	22	1,209	2,530	5,198	443	36,016	74,617	38,550	—	—	2,950	13,926	40,096
5,000,000 and over	4	727	1,499	3,299	241	21,699	47,197	25,843	—	—	1,435	7,076	25,957
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	894	5,042	321
Totals	145	3,033	6,328	12,710	1,091	85,967	171,752	85,300	20	80	7,511	36,618	87,906

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			'000				'000		'000	
1962													
Under 5 employed	44	46	83	149	29	1,331	2,502	1,159	20	77	98	332	1,193
5- 14 employed	27	134	278	492	40	3,070	5,226	2,142	1	6	251	1,100	2,163
15- 49 " "	32	443	923	1,736	177	11,087	20,969	9,608	—	—	874	4,275	9,943
50- 99 " "	17	492	1,111	2,048	201	15,496	30,410	15,148	—	—	1,197	5,887	15,964
100-199 " "	15	624	1,743	3,337	304	22,866	45,491	22,762	—	—	1,892	8,669	23,316
200-499 " "	7	1,118	2,125	4,508	323	25,862	55,864	29,821	—	—	2,336	10,218	30,090
500 employed and over													
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	877	4,845	348
Totals	142	3,057	6,263	12,270	1,073	79,713	160,462	80,640	21	83	7,525	35,326	83,017
1963													
Under 5 employed	39	37	72	115	20	1,079	1,862	793	19	74	74	259	807
5- 14 employed	33	151	311	571	48	3,806	6,456	2,604	1	6	284	1,238	2,671
15- 49 " "	38	551	1,151	2,100	211	14,189	25,691	11,091	—	—	1,088	5,304	11,359
50- 99 " "	12	367	796	1,571	149	11,759	23,169	11,236	—	—	859	4,282	11,937
100-199 " "	16	816	1,737	3,590	322	26,214	51,254	25,221	—	—	2,008	9,794	26,232
200-499 " "	7	1,109	2,260	4,782	341	28,919	63,320	34,356	—	—	2,304	10,700	34,579
500 employed and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	894	5,042	321
Totals	145	3,033	6,328	12,710	1,091	85,967	171,752	85,300	20	80	7,511	36,618	87,906

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

Type of organization	Establishments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and electricity	Cost of materials and supplies	Value of shipments of goods of own manufacture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1962													
Individual ownerships	17	14	24	42	10	541	919	372	21	83	21	68	385
Partnerships	1												
Incorporated companies	124	3,043	6,238	12,227	1,064	79,171	159,544	80,287	—	—	6,627	30,413	82,284
Cooperatives	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	877	4,845	348
Totals	142	3,057	6,263	12,270	1,073	79,713	160,462	80,640	21	83	7,525	35,326	83,017
1963													
Individual ownerships	16	22	39	69	6	563	910	340	15	67	31	104	350
Partnerships	3	1	2	3	1	100	141	39	5	14	2	4	39
Incorporated companies	126	3,010	6,287	12,637	1,084	85,303	170,701	84,920	—	—	6,584	31,468	87,195
Cooperatives	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	894	5,042	321
Totals	145	3,033	6,328	12,710	1,091	85,967	171,752	85,300	20	80	7,511	36,618	87,906

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

	Manufacturing activity		Non-manufacturing activities		Total activity	
	1962	1963	1962	1963	1962	1963
\$'000						
Output						
1. Shipments and other revenue	160,462	171,752	11,448	12,170	171,910	183,922
Inventories — Goods of own manufacture:						
Add closing — Goods in process	2,240	2,216	...	...	2,240	2,216
Finished goods	17,031	17,857	...	...	17,031	17,857
Less opening — Goods in process	2,121	2,231	...	...	2,121	2,231
Finished goods	16,186	17,236	...	...	16,186	17,236
2. Net inventory change	964	606	...	...	964	606
3. Gross output (1+2)	161,426	172,358	11,448	12,170	172,874	184,528
Input						
4. Purchases of goods not of own manufacture .....	...	...	8,375	8,744	8,375	8,744
Inventories — Goods not of own manufacture:						
Add opening .....	...	...	2,778	2,778	2,778	2,778
Less closing .....	...	...	2,773	2,814	2,773	2,814
5. Cost of goods sold (not of own manufacture) .....	...	...	8,380	8,708	8,380	8,708
6. Materials, supplies, components and semi-processed goods	79,713	85,987	691	855	80,404	86,822
7. Fuel and electricity	1,073	1,091	...	...	1,073	1,091
8. Gross input (5+6+7)	80,786	87,058	9,071	9,563	89,857	96,621
Census value added (3-8)	80,640	85,300	2,377	2,606	83,017	87,906

TABLE 3. Employment and Payroll, 1962 and 1963

Year and province	Employees										Salaries and wages					
	Production and related workers				Adminis- trative and office		Sales and distribution		Total employees		Production and related workers		Adminis- trative and office	Sales and distri- bution	Total salaries and wages	
	Manufacturing		Other													
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Manufac- turing	Other				
	number										\$'000					
1962																
Newfoundland	}	70	14	2	—	18	21	21	—	109	35	308	8	170	133	619
Prince Edward Island																
Nova Scotia																
New Brunswick																
Quebec	801	94	10	2	528	312	793	72	2,132	480	3,278	53	3,938	4,478	11,747	
Ontario	1,555	79	6	—	786	420	718	63	3,065	562	6,946	21	6,454	4,741	18,162	
Manitoba	126	21	—	—	82	55	27	2	235	78	458	—	666	175	1,299	
Saskatchewan	}	10	—	—	—	4	3	2	—	16	3	37	—	35	8	81
Alberta																
British Columbia																
Yukon and Northwest Terri- tories																
Totals	2,807	250	18	2	1,548	895	1,824	181	6,197	1,328	12,270	82	12,341	10,633	35,326	
1963																
Newfoundland	x	x	x	—	x	x	x	—	x	x	x	x	x	x	x	x
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	x	x	x	—	x	x	x	x	x	x	x	x	x	x	x	x
New Brunswick	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Quebec	711	71	15	2	485	304	791	76	2,002	453	3,158	71	3,842	4,676	11,747	
Ontario	1,633	83	1	—	749	454	761	63	3,144	600	7,472	2	6,713	5,190	19,377	
Manitoba	119	21	—	—	79	48	30	2	228	71	463	—	625	184	1,272	
Saskatchewan	x	—	x	—	x	x	x	—	x	x	x	x	x	x	x	x
Alberta	5	—	—	—	6	3	4	—	15	3	12	—	25	10	47	
British Columbia	253	43	—	—	114	83	290	42	657	168	1,286	—	995	1,205	3,486	
Yukon and Northwest Terri- tories	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	2,863	230	18	2	1,465	915	1,893	185	6,179	1,332	12,710	81	12,449	11,379	36,618	

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

Month	Establishments reporting monthly detail			
	1962		1963	
	Male	Female	Male	Female
	number			
January	2,488	222	2,487	195
February	2,586	247	2,583	209
March	2,681	251	2,654	216
April	2,774	261	2,758	242
May	2,998	270	2,812	240
June	2,918	267	2,828	241
July	2,892	258	2,825	246
August	2,831	233	2,730	224
September	2,686	247	2,599	212
October	2,573	240	2,582	211
November	2,491	211	2,567	207
December	2,458	201	2,495	196
Average for establishments reporting monthly detail (collected only for large establishments) ..	2,697	241	2,666	219
Average for small establishments (only annual averages collected)	110	9	137	11
Average for all establishments	2,807	250	2,803	230

TABLE 4. Industry Inventories,¹ 1963

Province	Manufacturing				Non-manufacturing	Total inventories
	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total manufacturing	Products or materials purchased for resale	
book value \$'000						
Opening:						
Newfoundland	x	x	x	x	x	x
Prince Edward Island	—	—	—	—	—	—
Nova Scotia	x	x	x	x	x	x
New Brunswick	—	—	—	—	—	—
Quebec	2,608	195	7,994	10,797	1,399	12,196
Ontario	6,413	1,761	9,866	18,038	729	18,769
Manitoba	680	36	679	1,395	178	1,573
Saskatchewan	—	—	—	—	—	—
Alberta	6	—	16	22	—	22
British Columbia	1,090	218	1,991	3,298	443	3,741
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	11,210	2,231	21,240	34,681	2,778	37,460
Closing:						
Newfoundland	x	x	x	x	x	x
Prince Edward Island	—	—	—	—	—	—
Nova Scotia	x	x	x	x	x	x
New Brunswick	—	—	—	—	—	—
Quebec	2,557	326	8,061	10,944	1,379	12,323
Ontario	6,406	1,625	10,301	18,332	772	19,104
Manitoba	705	31	635	1,371	251	1,823
Saskatchewan	—	—	—	—	—	—
Alberta	16	—	25	42	—	42
British Columbia	1,179	212	2,374	3,764	389	4,153
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	11,327	2,216	22,020	35,563	2,814	38,377

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

Description	1962		1963	
	Quantity	Cost \$'000	Quantity	Cost \$'000
1. Large establishments which reported commodity detail:				
Bituminous coal:				
(a) From Canadian mines	ton	755	599	9
(b) Imported	"	3,972	3,031	35
Sub-bituminous coal (from Alberta mines only)	"	—	—	—
Anthracite coal	"	24	—	—
Lignite coal	"	17	20	—
Coke	"	260	281	5
Gasoline (including gasoline used in cars and trucks)	Imp. gal.	216,263	309,399	97
Fuel oil including kerosene or coal oil	"	3,472,005	3,432,502	336
Wood	cord	5	2	—
Gas:				
(a) Liquefied petroleum gases	Imp. gal.	10,055	13,584	5
(b) Other manufactured gas	M cu.ft.	—	—	—
(c) Natural gas	"	97,028	107,403	99
Other fuel .....	...	5	...	—
Electricity purchased	kwh.	29,960,593	32,353,686	432
Steam purchased .....	...	17	...	17
2. Estimate for small establishments:				
Fuel and electricity .....	...	55	...	54
3. All establishments:				
Total fuel and electricity used .....	...	1,073	...	1,091

¹ The differences between figures in Table 4 and those in Table 2 arise from firms reporting output of products on the basis of production rather than shipments. Consequently, inventories of finished products for such respondents are not taken into account for purposes of compiling value added in Table 2. See also "Concepts and Definitions" for explanation of other variances.

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

Description	1962		1963	
	Quantity	Cost	Quantity	Cost
	lbs.	\$'000	lbs.	\$'000
1. Materials used:				
Prime pigments:				
White:				
Antimony oxide	46,027	14	42,450	16
Basic carbonate white lead:				
Dry	808,313	138	794,278	144
In oil	121,822	24	60,361	11
Basic silicate white lead	804,026	166	911,637	175
Basic sulphate white lead	61,319	11	27,011	5
Lithopone (30% zinc sulphide)	698,885	59	599,351	58
Titanium dioxide	36,586,830	9,150	41,178,857	10,514
Extended titanium dioxide pigments	21,869,760	2,513	17,176,191	1,905
Zinc oxide:				
Lead free	3,886,116	558	3,746,058	603
Leaded	254,427	40	141,595	22
Other white pigments	831,346	68	909,689	88
Black:				
Carbon black	386,198	133	480,874	167
Graphite	48,577	7	60,722	9
Other black pigments	183,019	44	179,853	67
Coloured:				
Chrome yellow and orange pigments	1,777,905	652	1,771,570	659
Cadmium yellow and orange pigments	15,756	20	12,563	17
Organic yellow and orange pigments	208,900	305	213,889	332
Other yellow and orange pigments	573,744	269	718,991	331
Chrome green pigments	604,437	279	589,150	261
Chromium oxide and hydrated green pigments	112,501	56	109,783	58
Phthalocyanine greens	95,868	324	113,547	380
Other green pigments	10,660	28	19,846	53
Iron blues	121,802	69	143,744	93
Phthalocyanine blues	70,380	250	98,031	301
Other blue pigments	99,376	137	102,741	162
Lithol reds	36,121	35	17,761	42
Toluidine reds	473,294	541	562,483	618
Para reds	100,112	77	97,130	88
Cadmium red and maroon pigments	80,576	204	76,646	211
Other red and maroon pigments	125,921	618	154,553	872
Iron oxides (see item immediately below)	3,909,780	470	4,017,735	520
Ochres, siennas, umbers (not including item immediately above)	299,061	56	335,929	74
Red lead, including orange mineral	1,410,816	204	1,353,297	280
Litharge	338,369	47	237,177	34
Metallic powders (aluminum, bronze, etc.)	1,264,173	625	1,782,937	733
All other coloured pigments	269,558	123	504,649	241
Extender pigments:				
Aluminum stearate	195,535	70	223,539	83
Asbestine talc	17,335,425	479	16,626,889	536
Barytes	2,487,731	104	3,708,068	184
Bentonite	371,648	225	350,196	274
Blanc fixe	538,154	41	664,365	45
Calcium carbonate (whiting and chalk)	33,396,999	723	40,612,773	909
Calcium stearate	27,549	9	32,766	11
Diatomaceous earth ("Dicalite", kieselguhr, "Cellite", etc.)	2,714,538	172	2,129,022	174
Kaolin or china clay	4,915,835	178	5,760,675	249
Mica	1,780,195	117	1,938,765	126
Silica sand and ground quartz	2,749,599	123	2,988,281	134
Zinc stearate	55,867	21	57,657	23
Other extender pigments	12,407,053	655	8,183,460	408
Oils:				
Linseed oil:				
Raw	7,058,209	1,170	6,426,945	945
Other grades (boiled, blown, heat-bodied, etc.)	15,111,458	2,735	15,582,099	2,667
Castor oil:				
Raw	880,951	174	517,005	89
Dehydrated	615,503	166	818,314	219
China wood (tung) oil	2,142,086	614	1,984,170	823
Fish oils	226,120	59	111,812	25
Silicone oil	12,724	25	27,914	48
Soya bean oil	10,687,395	1,365	12,690,037	1,558
Sunflower oil	796,938	118	—	—
Tall oil	2,195,877	225	1,858,750	273
Other oils	2,523,710	408	2,584,165	497
Resins:				
Natural:				
Rosin	1,610,890	249	1,159,737	270
Other	318,799	64	707,865	123

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

Description	1962		1963	
	Quantity	Cost	Quantity	Cost
	lbs.	\$'000	lbs.	\$'000
1. Materials used - Concluded:				
Resins - Concluded:				
Synthetic:				
Acrylic	1,904,359	559	2,198,304	603
Styrenated alkyds	1,694,798	400	2,326,180	488
Other alkyds	30,601,730	5,798	32,913,174	6,062
Amines	1,256,262	409	1,694,373	577
Epoxys	1,663,873	915	2,269,635	1,228
Ester gum	1,141,682	284	858,827	232
Maleics	894,003	248	975,217	246
Pure phenolics	971,174	384	956,697	421
Modified phenolics	1,395,125	398	1,320,669	370
Urea-formaldehyde	560,746	194	656,592	204
Vinyls	1,466,293	502	1,970,356	586
Other	2,593,466	692	3,389,874	1,019
Shellac:				
Orange	115,648	38	118,182	41
Bleached	680,198	310	633,057	292
Other	178,331	65	111,142	47
Solvents:				
Acetone	1,238,235	111	1,120,808	98
Alcohol:				
Butyl (including isobutyl)	2,839,309	481	2,881,111	476
Ethyl (denatured or not)	2,285,563	208	2,505,146	232
Isopropyl	2,579,433	225	2,701,123	228
Methyl (wood or methylated spirits)	1,006,584	106	1,152,954	119
Amyl acetate	65,027	13	200,933	36
Butyl acetate	2,619,486	407	2,735,619	388
Butyl "Cellosolve"	412,506	107	615,237	106
"Cellosolve" acetate	425,934	98	414,734	100
Coal tar solvents:				
Benzol	289,896	18	291,694	21
Toluol	16,759,810	686	17,500,556	728
Xylol	17,086,724	760	19,095,003	832
Other coal tar solvents	2,915,672	147	7,110,754	333
Dibutyl phthalate	226,372	67	212,850	61
Ethyl acetate	2,055,528	238	2,025,958	236
Methylene chloride	863,612	122	966,107	147
Methyl amyl acetate	344,381	59	344,375	60
Methyl ethyl ketone	833,245	134	979,135	151
Methyl isobutyl ketone	1,636,867	279	1,649,500	274
Petroleum distillates	79,260,292	2,763	83,317,068	3,045
Propyl acetate	1,811,094	191	1,605,584	177
Turpentine	2,054,147	116	1,159,296	82
Other paint, varnish and lacquer solvents and plasticizers	7,460,535	1,037	10,835,370	1,544
Driers:				
Naphthenates	2,388,359	699	2,499,932	738
Other driers	352,049	129	392,510	156
Miscellaneous:				
Acid, fatty	3,216,952	599	4,088,094	622
Asphalt	3,202,327	138	3,685,931	128
Carboxymethylcellulose	113,012	96	135,189	115
Casein	151,150	157	571,699	128
Chlorinated rubber	387,187	214	319,794	181
Formaldehyde (100% solids content)	417,540	50	307,045	35
Glycol, ethylene	962,522	176	1,063,090	189
Glycols, other (mono, di, tri, etc.)	1,400,607	228	1,706,256	288
Glycerine	2,471,912	663	2,694,744	656
Latex emulsion	10,434,329	2,203	12,448,929	2,479
Nitrocellulose	3,950,626	1,379	3,632,762	1,322
Pentaerythritol	3,436,720	991	3,951,872	1,072
Phthalic anhydride	11,549,138	1,546	12,845,090	1,445
Pitch, coal tar	1,427,184	94	2,158,938	87
Sodium bichromate	133,587	19	241,147	39
Varnishes	2,882,099	630	3,165,680	638
Wax (beeswax, carnauba, paraffin, etc.)	459,386	137	505,462	153
All other materials and components used ¹ .....	...	8,976	...	10,125
2. Containers and other packaging materials and supplies used .....	...	10,791	...	11,139
3. Operating, maintenance and repair supplies used (excluding fuel) .....	...	1,308	...	1,345
4. Amount paid out to others for work done on materials owned by establishments .....	...	120	...	202
Totals .....	...	79,713	...	85,967

¹ No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. These estimated costs were \$2,778,550 in 1962 and \$3,391,743 in 1963.

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

Description		1962		1963	
		Quantity	Value	Quantity	Value
			\$'000		\$'000
1. Products:					
Paste paints (not including water-paste paints)	lb.	918,298	241	790,000	260
Semi-paste paints (not including water-thinned type)	Imp. gal.	168,979	686	83,641	337
Ready mixed paints and enamels:					
Exterior type	"	10,691,883	45,047	12,715,098	53,657
Interior type	"	11,653,424	53,004	12,191,239	53,785
Water-thinned paints and enamels:					
Latex base emulsion paints	"	4,953,878	20,731	5,320,690	21,368
Resin and other bases emulsion paints (paste and semi-paste)	"	246,464	995	290,237	1,081
Casein and other protein bound, glue bound:					
Dry	lb.	449,341	65	864,845	106
Calcimines	"	577,220	72	617,685	83
Lime and cement bound	"	1,917,045	248	989,555	147
Other water-thinned paints	"	"	245	"	481
Lacquers:					
Cellulose types	Imp. gal.	2,861,968	9,062	2,691,011	8,943
Non-cellulose types	"	231,871	958	216,974	1,006
Stains (including varnish stains)	"	338,031	1,199	426,670	1,165
Thinners and reducers	"	3,567,704	5,317	3,536,552	5,252
Varnishes (for interior and exterior use including shellac varnish, natural and synthetic resin base varnishes, japans, etc. but excluding next item)	"	2,664,504	9,173	2,388,700	8,704
Insulating varnishes, electrical types	"	78,756	254	99,346	317
Colours in oil (except white lead)	"	59,611	397	42,747	383
Floor wax	"	"	56	"	56
Paint and varnish removers	Imp. gal.	139,335	488	134,532	445
Patching materials:					
For walls (including joint filler and cement)	lb.	13,069,555	1,164	11,790,329	926
For floors	"	999,544	237	905,030	211
Wood and metal sash putties	"	9,371,056	1,727	9,285,073	2,010
Wall size and other sizing materials	"	95,552	30	50,504	27
All other products	"	"	9,861 ^r	"	11,730
2. Amount received in payment for work done on materials and products owned by others		"	22	"	59
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above		"	(834)	"	(789)
Net adjustment for establishments receiving progress payments		"	—	"	—
Total adjusted value of shipments and work done		"	160,462	"	171,752

TABLE 8. Shipments of Selected Goods of Own Manufacture — All Industries
(Includes shipments from other industries which manufacture, as a secondary activity, the commodities listed)

A. Paints and Varnishes, 1959-63

Year	Value
	\$'000
1959	140,620
1960	140,160
1961	145,062
1962	151,813
1963	162,945

Note: The totals for factory shipments include thinners, paint and varnish removers, ready mixed paints, paste and semi-paste paints, water thinned paints, varnishes and shellacs, lacquers and stains.

B. Putty, 1954-63

Year	Quantity	Value
	M lb.	\$'000
1954	10,341	789
1955	11,768	836
1956	12,581	1,007
1957	12,833	1,094
1958	16,207	1,621
1959	12,137	1,468
1960	13,778	1,676
1961	12,999	1,823
1962	13,806	2,088
1963	13,460	2,328

List of Establishments classified to This Industry, 1963

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

Name	Location
Newfoundland:	
Standard Mfg. Co. Ltd., The	Water St. East, St. John's
Nova Scotia:	
Canadian Industries Limited	6069 Yonge St., Halifax
Tibbetts Paints Ltd.	Trenton
Quebec:	
Acme Industries Co.	6712 Boyer, Montreal
Alpeco Paint Co. Ltd.	25 St-Joseph, Lachine
Canadian Industries Limited	6930 Clanranald Ave., Montreal
Canadian Pittsburgh Industries Ltd.	2740 St. Patrick St., Montreal
Charters Chemical Ltd.	4328 St. Lawrence Blvd., Montreal
Chateau Paint Works Inc.	6833 Ave. du Parc, Montreal
Coatwell Paint and Varnish Co. Ltd.	147 Nazareth St., Montreal
Conan Paints Ltd.	3975 St-Ambroise St., Montreal
Crown Diamond Paint Co. Ltd., The	41 Bates Rd., Outremont
Continental Paint and Varnish Works Ltd.	5069 Vaillant St., Montreal
Durity Paint and Lacquer Co. Ltd.	4230 Hogan, Montreal
Ferrox Coatings Inc.	7920-16th Ave., St-Michel
Gallant Paint Ltd., The	Charlemagne
Gliden Co. Ltd., The	133 Elmslie St., LaSalle
Industrie Pépin Ltée.	Cowansville
International Lacquer Products Ltd.	6935 Park Ave., Montreal
International Paints (Canada) Ltd.	6700 Park Ave., Montreal
Jamieson, W.B., Paint Co.	9426 A Blvd. Gouin E., Montreal
Joliet Paint Reg'd.	7035 Notre Dame St., Montreal
La Cle des Peintures et Vernis Modèle	Jacques-Cartier
La Cle de Peintures et Vernis Mont Royal Ltée	5669 Casgrain St., Montreal
Lacquer Products Co. Limited	Granby
Moore, Benjamin and Co. Ltd.	9393 St Michel Blvd., St-Michel
Norlantic Paint Co. Ltd.	Ste-Rose-de-Laval
O'Neil Paints Inc.	2691 Charlemagne, Montreal
P.V.R. Company Ltd.	2625 Albert St.-No 336-Montreal
Peinture Bertrand Paints Inc.	3121-36ième Rue, Ville St. Michel
Peinture Nationale Ltée	1556 St-Vallier Ouest, Quebec
Peinture Sico Ltée	Giffard
Protective Coatings Ltd.	1080 Pratt Ave., Outremont
R.S. Chemicals Co.	St-Remi-de-Naperville
Reardon Company Limited, The	8855 Crescent Two, Ville D'Anjou
Reliance Varnish Co. of Canada Ltd.	Daveluyville
Sherwin-Williams Co. of Canada Ltd., The	2875 Centre St., Montreal
Simon Chemical Co. Ltd.	366 LeMoyné St., Montreal
Style Paint Co. Ltd.	St-Pierre-de-Sorel
Uni Chem Products Mfg. Co.	527 St-Martin, Montréal
United Paint Co.	2555 Charlemagne, Montreal
Walsh, Robert Co. Ltd.	514 Baldwin, Montreal
Wesco Paints Ltd.	2100 St. Patrick St., Montreal
Zenith Paint Incorporated	1884 Darling St., Montreal
Ontario:	
Acme-DeSoto Paint and Chemical Ltd.	Long Branch
Allied Specialty Mfg. Co. Ltd.	11 Carson St., Toronto
Alma Paint and Varnish Co. Ltd.	65 Duke St., London
Armour Products	2641 Howard Ave., Windsor
Aulcraft Paints Ltd.	303 Campbell Ave., Toronto
Benton Industries Ltd.	74 Sheffield St., Toronto
Brampton Paint Co. Ltd., The	32 Stafford Drive, Brampton
British Paints (Canada) Ltd.	347 Dundas St. N., Oakville
Burnett and Son Luminous Products	35 Ferncroft Dr., Scarborough
Canada Varnish Limited	53 Laird Drive, Leaside
Canadian Industries Limited	Foot of Laughton Ave., Toronto
Canadian Industries Limited	1300 Castlefield Ave., Toronto
Canadian Pittsburgh Industries Ltd.	3730 Lake Shore Blvd. W., Long Branch
Canadian Pittsburgh Industries Ltd.	1160 Central Ave., Windsor
Cosmos Chemical Co. Ltd.	117 Cavan St., Port Hope
Curtis Plastord Products Ltd.	169 City View Drive, Rexdale
Decor Paint and Chemical Co. Ltd.	Concord
Docco Mfg. Co. Reg'd.	Willowdale
Domtar Construction Materials Ltd., Gypsum Division	Paris
Dupont of Canada Ltd.	Ajax
Everguard Coatings International Ltd.	3071 Oakwood Drive, Niagara Falls
Ferns, J.L.	Waldemar
Flame-Crete Co. of Canada Ltd.	98 Crockford Blvd., Scarborough
Gliden Co. Limited, The	351 Wallace Ave., Toronto
Goudey, John E., Manufacturing Ltd.	21 Primrose Ave., Toronto
Hamilton Paint and Varnish Works Ltd.	65-67 Biggar Ave., Hamilton
Hannan Varnish Co. Ltd.	Glennmorris
Heaman Paint Company Ltd.	1093 Margaret St., London
Imperial Flo-Glaze Paints Ltd., The	2-20 Morse St., Toronto
Industrial Lacquer Specialities Ltd.	840 Eastern Ave., Toronto
Iroquois Chemicals Ltd.	Second St. W., Cornwall
Jacroy Canada Ltd., Commercial Chemicals	421 Comstock Rd., Scarborough
Lakeside Varnish and Lacquer Mfg. Co. Ltd.	98 Montclair Ave., Toronto
MacDonald and White Varnish & Paint Co. Ltd.	Riverside
MacNaughton Brooks Ltd.	3637 Weston Road, Weston
Masse Manufacturing Co. Ltd.	264 Macdonell Ave., Toronto
Master Paint and Varnish Co. (Hamilton) Ltd.	33 Princess St., Hamilton
Maurice Paint Co. Ltd.	170 Toryork Drive, Weston
Mercury Varnish Co. Ltd.	94½ Queenston St., St. Catharines

List of Establishments classified to This Industry, 1963 - Concluded

Name	Location
Ontario - Concluded:	
Mitchell Colour and Chemical Company Ltd.	336 Birchmount Rd., Scarborough
Moore, Benjamin and Co. Ltd.	6 Lloyd Ave., Toronto
National Paint Products	57 Rutherford Ave., Toronto
Niagara Paint and Chemical Co. Ltd.	2 Hillyard St., Hamilton
Northern Paint and Varnish Co. Ltd., The	First Ave. W., Owen Sound
Ocean Chemicals (Canada) Ltd.	98 Crockford Blvd., Scarborough
O.P.W. Paint Co., Div'n. of Socony Mobil Oil of Canada Ltd.	1106 Walker Road, Windsor
O.P.W. Paint Co., Div'n. of Socony Mobil Oil of Canada Ltd.	687 Wellington St., Ottawa
Paralac Paint Mfg. Co.	3775 Dundas St. W., Toronto
Para Paint Ltd.	25 Racine Rd., Rexdale
Parrot Paint Co., The	1051 Nelson St., Oshawa
Penfound Varnish Company Limited	30 Bethridge Rd., Rexdale
Pleiffer Paint Co. Ltd.	25-6th Ave., Kitchener
Pierce and Stevens Canada Ltd.	224 Catherine St., Port Erie
Pratt and Lambert Inc.	254 Courtwright St., Port Erie
Protek Paint and Varnish Co.	140-16th St., New Toronto
Rex Paint and Varnish Co. Ltd.	6801 Steele Ave. W., Toronto
Rinsed-Mason Co. of Canada Ltd.	845 Wyandotte St., Windsor
Roxalin of Canada Limited	188 New Toronto St., Toronto
Scarfe and Company Limited	35 Greenwich St., Brantford
Selectone Paints Ltd.	153 Kendal Ave., Toronto
Shamrock Paint and Varnish Works	King
Sherwin-Williams Co. of Canada Ltd., The	263 Sorauren Ave., Toronto
Smyth, John, Manufacturing Company	31-33 Colborne St., Brantford
Spence, W.R., Industries Ltd.	85 Vulcan St., Rexdale
Starlac Company	21 Raleigh Ave., Scarborough
Sterling Varnish Co. of Canada Ltd., The	Marren St., St. Catharines
Sturgeons Limited	9 Sturgeon Rd., Scarborough
Tone-Craft Paint and Varnish Co. Ltd.	10 Carson St., Toronto
Tremco Manufacturing Co. (Canada) Ltd., The	220 Wicksteed Ave., Toronto
United Finish Co. (Canada) Ltd.	Cobourg
Universal Asphalt Mastic Products Ltd.	14 Eugene St., Toronto
Webb Products Co. (Canada) Ltd.	139 Stephenson Ave., Toronto
Manitoba:	
Guertlin Bros. (Paint) Ltd.	270 Assiniboine Ave., Winnipeg
International Laboratories (1957) Ltd.	490 Des Meurons St., St. Boniface
Northern Paint Company Ltd.	394 Gertrude Ave., Winnipeg
Phillips Paint Products Ltd.	306 King St., Winnipeg
Sherwin-Williams Co. of Canada Ltd., The	110 Sutherland Ave., Winnipeg
Stephens Paints Ltd.	170-176 Market Ave., E., Winnipeg
Saskatchewan:	
International Paints Canada Ltd.	Industrial Drive, Regina
Alberta:	
Foothills Chemicals Ltd.	7869-75th St., Edmonton
Moberg Laboratories of Canada Ltd.	9925-77 Ave., Edmonton
Plastiglo Industries Ltd.	8537 Argyll Rd., Edmonton
Tower Paint and Laboratories Ltd.	16441-111 Ave., Edmonton
British Columbia:	
British America Paint Co. Ltd.	201 Belleville St., Victoria
Canadian Elastileum Ltd.	846 River Rd., Richmond
Canadian Industries Limited	Granville Island, Vancouver
Canadian Pittsburgh Industries Ltd.	1160 East Third St., North Vancouver
Cloverdale Paint and Chemicals Ltd.	6400 King George Hwy., North Surrey
G.R. Chemicals Ltd.	450 Vernon Drive, Vancouver
General Paint Corporation of Canada Ltd.	950 Raymur Ave., Vancouver
Goodacre, Alfred A.	6369 Arbroath St., Burnaby
Henderson, Geo. C., Co. Ltd.	3955 Myrtle St., Burnaby
International Paints (Canada) Ltd.	126 Harbour Ave., North Vancouver
Isles Products Ltd.	8514 Ash St., Vancouver
Mills Paint Sales Ltd.	115 West 4th Ave., Vancouver
Moore, Benjamin, and Co. Ltd.	852 Derwent Way, New Westminster
North West Paint and Chemicals Ltd.	1147 Venables St., Vancouver
Spectrum Chemicals Ltd.	230 Brunette St., New Westminster
Sherwin-Williams Co. of Canada Ltd., The	Derwent Way, New Westminster
Synkoloid Co. of Canada Ltd., The	1105 Bridge St., North Surrey
Walker Bros. Limited	5684 Beresford St., Burnaby

CONCEPTS AND DEFINITIONS

Census of Manufactures

General

The Census of Manufactures is an annual mail survey covering Canada's Manufacturing Industries. It is based on the Standard Classification of Industries and full details concerning the system may be found in the Standard Industrial Classification manual, Catalogue No. 12-501 which is available from the Queen's Printer or the Dominion Bureau of Statistics. In summary, the Classification as it relates to the manufacturing industries provides for a breakdown into 140 industries arranged in 20 major industry groups. Of the 140 (3 digit) industries, 18 are further broken down into 58 (4 digit) sub classes. At the Canada level, principal statistics are collected and compiled for 178 separate industries. They cannot all be published separately by province, however, because of the confidential nature of the data in certain provinces.

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

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

The results of the Census are presented in some 140 publications. In addition to these annual industry publications there are annual summary reports for Canada and the provinces and special reports giving principal statistics by detailed geographic areas, by type of ownership and size of establishment. A special annual report covering the shipments of all manufactured commodities arranged in alphabetical order is also published.

Since 1960 the following major changes have been implemented in the Census of Manufactures: (a) a revised Standard Industrial Classification (b) a new establishment definition and (c) an extension of the establishment definition to cover the non-manufacturing activities of manufacturing establishments. The statistics presented in the various 1963 reports reflect the complete implementation of these changes and enable comparisons to be made with the years 1961 and 1962. For a complete description of the procedures followed in establishing the revised series, reference should be made to the Explanatory Notes included in the 1960, 1961 and 1962 industry publications. The statistical framework within which the Census of Manufactures is now carried out is based on the following concepts and definitions which have been developed as part of a general programme to achieve a fully integrated system of economic statistics.

Establishment

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

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

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

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

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

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

Head Offices and Auxiliary Units

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

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

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

(b) In the case of multi-establishment firms, the statistics for such offices and units are coded to the same industry as the establishments of the

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

Employees

(a) Production and related workers – Manufacturing activity

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

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

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

(c) Administrative and office employees

This category includes all executive and supervisory officials such as presidents, vice-presidents, comptrollers, secretaries, treasurers,

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

(d) Sales and distribution workers

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

(e) Total Employees

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

Working Owners or Partners

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

Salaries and Wages

Salaries and wages refer to gross earnings of employees **before** deductions for income tax and employees contributions to social services such as sickness, accident and unemployment insurance, pensions, etc. They include all salaries, wages, bonuses, profits shared with employees, the value of room and board where provided, commissions (paid to regular employees only) as well as any

other allowance forming part of the worker's earnings. Payments for over-time are included. Figures on salaries and wages refer to the calendar year.

Fuel and Electricity

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

Materials and Supplies

(a) Manufacturing activities

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

(b) Non-manufacturing activities

1. Purchases for re-sale as such

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

2. Other materials and supplies used

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

fixed assets accounts and the cost of such other items of materials and supplies used as food, beverages and supplies for establishment-operated cafeterias and lunch counters, first aid and medical supplies, laboratory supplies, etc.

Shipments

(a) General

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

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

(b) Shipments of goods of own manufacture

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

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

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

with shipments of goods of own manufacture of establishments forming the universe of manufacturing industries are compiled and recorded in the various industry publications.

(c) Shipments of goods not of own manufacture

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

(d) Other revenue

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

Inventories

(a) Manufacturing activities

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



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

(b) Non-manufacturing activities

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

Value Added

(a) By manufacturing activities

Figures are compiled by deducting the cost of materials and fuel and electricity consumed from the value of production (value of shipments adjusted for changes in the value of inventories of finished goods and goods in process).

(b) By non-manufacturing activities

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

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

(c) By Total activities

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