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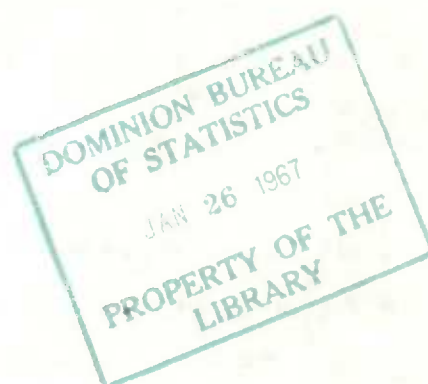
ANNUAL



BOILER AND PLATE WORKS

1964

ANNUAL CENSUS
OF MANUFACTURES



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PUBLICATIONS

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BOILER AND PLATE WORKS

1964

For statistical purposes the industry titled Boiler and Plate Works in the revised Standard Industrial Classification covers the operations of establishments primarily engaged in the manufacture of heating and power boilers except cast iron sectional heating boilers, storage tanks, pressure tanks, smoke-stacks, plate work and similar boiler-shop products. Some establishments in this industry engage both in the fabrication of the product and its installation. In these cases the establishment is classified on the basis of its principal activity, i.e. either fabricating or installing the product. Establishments installing mainly products of their own manufacture are considered as primarily engaged in fabrication, and are included in this industry, but those primarily engaged in erecting boilers or smoke-stacks from purchased parts are included in Industry No. 409—Other Construction. Establishments primarily engaged in fabricating and erecting large storage tanks which must be assembled at the site are included in Industry No. 302—Fabricated Structural Metal Industry.

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
1961													
Totals	68	3,133	6,640	12,839	801	36,078	69,011	31,349	12	51	4,709	21,178	32,079
1962													
Totals	63	3,429	7,426	15,161	837	36,360	74,323	37,987	9	47	4,886	23,244	39,594
1963													
Newfoundland	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia.....	2	x	x	x	x	x	x	x	—	—	x	x	x
New Brunswick	—	—	—	—	—	—	—	—	—	—	—	—	—
Quebec	12	1,445	3,450	6,828	236	20,261	34,903	13,194	x	x	1,775	8,820	13,221
Ontario	32	1,894	4,159	8,768	403	18,236	39,039	19,675	x	x	2,753	13,706	20,537
Manitoba.....	1	x	x	x	x	x	x	x	—	—	x	x	x
Saskatchewan	1	x	x	x	x	x	x	x	—	—	x	x	x
Alberta	7	190	386	984	138	3,004	4,948	1,693	—	—	280	1,481	1,928
British Columbia	7	111	236	634	34	1,064	2,338	1,242	—	—	149	834	1,299
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	62	3,948	8,901	18,115	871	44,833	85,211	37,437	9	45	5,350	26,058	38,682
1964													
Newfoundland	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	x	x	x	x	x	x	x	x	—	—	x	x	x
New Brunswick	—	—	—	—	—	—	—	—	—	—	—	—	—
Quebec	15	1,391	3,153	7,235	242	18,619	36,288	16,508	x	x	1,746	9,362	16,425
Ontario	34	2,020	4,568	10,014	462	19,152	47,774	25,355	x	x	2,918	15,214	26,483
Manitoba.....	1	x	x	x	x	x	x	x	—	—	x	x	x
Saskatchewan	1	x	x	x	x	x	x	x	—	—	x	x	x
Alberta	6	173	359	819	90	2,503	4,388	1,811	—	—	253	1,237	2,174
British Columbia.....	7	119	247	699	37	1,347	2,964	1,591	—	—	159	916	1,601
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	66	3,967	8,898	19,624	891	43,296	94,479	46,655	9	49	5,429	27,913	48,421

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	7												
\$ 10,000 to \$ 24,999		30	60	124	8	174	441	258	5	25	40	163	287
25,000 " 49,999													
50,000 " 99,999													
100,000 " 199,999		83	166	344	23	496	1,188	669	4	20	108	464	736
200,000 " 499,999	21	448	904	1,825	119	3,405	7,178	3,730	—	—	571	2,531	3,951
500,000 " 999,999	7	251	546	1,125	59	2,349	4,815	2,409	—	—	321	1,556	2,403
1,000,000 " 4,999,999	16	1,443	3,252	6,516	407	19,138	33,824	14,368	—	—	1,980	9,634	14,879
5,000,000 and over	3	1,693	3,973	8,181	254	19,270	37,764	16,003	—	—	2,330	11,712	16,427
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	62	3,948	8,901	18,115	871	44,833	85,211	37,437	9	45	5,350	26,058	38,682
1964													
Under \$10,000	4												
\$ 10,000 to \$ 24,999		11	21	40	5	60	112	59	2	8	14	49	88
25,000 " 49,999													
50,000 " 99,999		45	90	180	12	213	549	324	5	34	58	226	412
100,000 " 199,999		61	118	245	15	402	1,013	572	2	7	99	414	726
200,000 " 499,999	19	365	754	1,537	107	3,068	6,411	3,285	—	—	478	2,144	3,433
500,000 " 999,999	13	438	914	2,089	161	3,959	8,891	4,692	—	—	551	2,816	4,689
1,000,000 " 4,999,999	14	1,403	3,146	6,489	349	18,661	34,441	15,874	—	—	1,959	9,732	16,925
5,000,000 and over	3	1,644	3,854	9,045	242	16,934	43,062	21,849	—	—	2,270	12,533	22,148
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	66	3,967	8,898	19,624	891	43,296	94,479	46,655	9	49	5,429	27,913	48,421

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	8													
\$ 10,000 to \$ 24,999		39	78	165	13	233	552	306	5	25	52	213	335	
25,000 " 49,999														
50,000 " 99,999		7	64	128	223	20	548	1,113	544	1	8	84	331	611
100,000 " 199,999		14	238	476	1,073	65	1,919	4,001	2,028	3	12	312	1,454	2,115
200,000 " 499,999	16	583	1,231	2,514	209	5,190	10,158	4,815	—	—	758	3,625	5,177	
500,000 " 999,999	7	426	898	2,127	143	7,597	12,254	4,676	—	—	622	3,282	4,953	
1,000,000 " 4,999,999	10													
5,000,000 and over		2,598	6,090	12,013	421	29,346	57,134	25,067	—	—	3,522	17,153	25,492	
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	62	3,948	8,901	18,115	871	44,833	85,211	37,437	9	45	5,350	26,058	38,682	
1964														
Under \$10,000	3													
\$ 10,000 to \$ 24,999		9	18	34	4	26	65	34	2	8	11	42	64	
25,000 " 49,999		39	74	127	8	234	490	234	1	8	67	229	399	
50,000 " 99,999		6	52	104	191	17	372	799	407	4	26	72	272	478
100,000 " 199,999		14	196	405	885	60	1,903	3,861	1,919	2	7	260	1,225	1,930
200,000 " 499,999	20	659	1,380	3,035	268	5,702	12,270	6,209	—	—	880	4,357	6,671	
500,000 " 999,999	8	679	1,470	3,016	158	8,381	14,551	6,397	—	—	915	4,350	7,208	
1,000,000 " 4,999,999	6	689	1,593	3,291	135	9,744	19,381	9,604	—	—	954	4,906	9,808	
5,000,000 and over	3	1,644	3,854	9,045	242	16,934	43,062	21,849	—	—	2,270	12,533	22,148	
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	66	3,967	8,898	19,624	891	43,296	94,479	46,655	9	49	5,429	27,913	48,421	

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	
1963													
Under \$10,000	8	39	78	165	13	233	552	306	5	25	52	213	335
\$ 10,000 to \$ 24,999													
25,000 " 49,999													
50,000 " 99,999		7	64	128	20	548	1,113	544	1	8	84	331	611
100,000 " 199,999		14	238	476	65	1,919	4,001	2,028	3	12	312	1,454	2,115
200,000 " 499,999	16	559	1,169	2,392	192	5,477	10,598	5,004	—	—	713	3,358	5,108
500,000 " 999,999	6	377	813	1,792	146	5,811	9,523	3,628	—	—	547	2,826	3,943
1,000,000 " 4,999,999	11	2,671	6,236	12,471	435	30,846	59,424	25,926	—	—	3,642	17,879	26,570
5,000,000 and over													
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	62	3,948	8,901	18,115	871	44,833	85,211	37,437	9	45	5,350	26,058	38,682
1964													
Under \$10,000	3	3	6	7	1	41	72	41	2	8	4	8	40
\$ 10,000 to \$ 24,999													
25,000 " 49,999		4	23	46	8	120	272	143	—	—	30	116	173
50,000 " 99,999		7	56	112	17	394	857	442	5	34	77	298	529
100,000 " 199,999		14	191	392	55	1,820	3,655	1,772	2	7	270	1,196	1,922
200,000 " 499,999	20	605	1,259	2,723	208	5,051	11,310	6,003	—	—	771	3,754	6,139
500,000 " 999,999	6	395	899	1,943	140	5,378	9,630	4,291	—	—	538	2,790	4,610
1,000,000 " 4,999,999	9	1,050	2,330	4,790	220	13,558	25,621	12,114	—	—	1,469	7,221	12,860
5,000,000 and over	3	1,644	3,854	9,045	242	16,934	43,062	21,849	—	—	2,270	12,533	22,148
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	66	3,967	8,898	19,624	891	43,296	94,479	46,655	9	49	5,429	27,913	48,421

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	
1963													
Under 5 employed	17	113	226	496	39	1,033	2,204	1,133	8	39	154	713	1,269
5- 14 employed													
15- 49 "		26	671	1,376	188	6,599	12,895	6,083	1	5	851	3,936	6,198
50- 99 "		6	295	659	117	5,118	8,581	3,403	—	—	408	1,920	3,412
100-199 "		8	781	1,785	183	9,439	17,155	7,689	—	—	1,055	5,732	8,220
200-499 "	5	2,088	4,855	9,426	346	22,643	44,376	19,129	—	—	2,882	13,758	19,583
500 employed and over													
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	62	3,948	8,901	18,115	871	44,833	85,211	37,437	9	45	5,350	26,058	38,682
1964													
Under 5 employed	3	3	6	7	1	41	72	41	2	8	4	8	40
5- 14 employed	16	115	229	510	40	1,146	2,465	1,294	6	32	154	710	1,373
15- 49 "	27	677	1,384	3,096	219	5,423	12,319	6,613	1	6	674	4,268	6,873
50- 99 "	6	271	613	1,117	79	5,595	9,488	3,856	—	—	360	1,607	3,900
100-199 "	9	906	2,035	4,618	221	11,302	20,709	9,516	—	—	1,254	6,695	10,299
200-499 "	5	1,995	4,632	10,276	330	19,789	49,426	25,336	—	—	2,783	14,625	25,937
500 employed and over													
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	66	3,967	8,898	19,624	891	43,296	94,479	46,655	9	49	5,429	27,913	48,421

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	7	52	104	229	11	260	687	415	9	45	64	274	473
Partnerships													
Incorporated companies	55	3,896	8,797	17,886	860	44,572	84,525	37,023	...	...	5,286	25,785	38,209
Co-operatives .....	—	—	—	—	—	—	—	—	...	...	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	62	3,948	8,901	18,115	871	44,833	85,211	37,437	9	45	5,350	26,058	38,682
1964													
Individual ownerships	7	41	82	173	10	190	542	344	9	49	51	210	432
Partnerships													
Incorporated companies	59	3,926	8,816	19,451	881	43,106	93,937	46,310	...	...	5,378	27,703	47,989
Co-operatives .....	—	—	—	—	—	—	—	—	...	...	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	66	3,967	8,898	19,624	891	43,296	94,479	46,655	9	49	5,429	27,913	48,421

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	85,211	94,479	8,031	9,945	93,242	104,424
Inventories—Goods of own manufacture:						
Add closing—Goods in process	5,305	1,894	...	...	5,305	1,894
Finished goods	1,830	1,806	...	...	1,830	1,806
Deduct opening—Goods in process	7,150	5,259	...	...	7,150	5,259
Finished goods	2,055	2,079	...	...	2,055	2,079
2. Net inventory change	(2,070)	(3,638)	...	...	(2,070)	(3,638)
3. Gross output (1 + 2)	83,141	90,841	8,031	9,945	91,172	100,786
Input						
4. Purchases of goods not of own manufacture .....	...	...	6,243	7,589	6,243	7,589
Inventories—Goods not of own manufacture:						
Add opening .....	...	...	1,025	837	1,025	837
Deduct closing .....	...	...	837	744	837	744
5. Cost of goods sold (not of own manufacture) .....	...	...	6,431	7,682	6,431	7,682
6. Materials, supplies, etc.	44,833	43,296	355	496	45,188	43,792
7. Fuel and electricity	871	891	...	...	871	891
8. Gross input (5 + 6 + 7)	45,704	44,187	6,786	8,178	52,490	52,365
Value added (3 - 8)	37,437	46,655	1,245	1,766	38,682	48,421

TABLE 8. Employment and Payroll, 1963 and 1964

Year and province	Employees										Salaries and wages				
	Production and related workers				Administrative and office		Sales and distribution		Total		Production and related workers		Administrative and office	Sales and distribution	Total
	Manufacturing		Other								Manufacturing	Other			
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female			Manufacturing	Other	
	number										\$'000				
1963															
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	x	x	-	-	x	x	x	x	x	x	x	-	x	x	x
New Brunswick	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec	1,444	1	2	-	225	50	50	3	1,721	54	6,828	10	1,596	386	8,820
Ontario	1,688	6	-	-	582	189	82	6	2,552	201	8,768	-	4,277	661	13,706
Manitoba	x	x	-	-	x	x	x	x	x	x	x	-	x	x	x
Saskatchewan	x	x	-	-	x	x	x	x	x	x	x	-	x	x	x
Alberta	190	-	-	-	52	11	24	3	266	14	984	-	293	205	1,481
British Columbia	111	-	-	-	28	10	-	-	139	10	634	-	201	-	834
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	3,939	9	2	-	924	275	185	16	5,050	300	18,115	10	6,571	1,362	26,058
1964															
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	x	-	-	-	x	x	x	x	x	x	x	-	x	x	x
New Brunswick	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec	1,389	2	-	-	243	55	54	3	1,686	60	7,235	-	1,691	435	9,362
Ontario	2,014	6	18	-	578	186	99	17	2,709	209	10,014	58	4,322	820	15,214
Manitoba	x	-	-	-	x	x	x	x	x	x	x	-	x	x	x
Saskatchewan	x	-	-	-	x	x	-	-	x	x	x	-	x	-	x
Alberta	173	-	-	-	49	5	24	2	246	7	819	-	245	173	1,237
British Columbia	119	-	-	-	30	10	-	-	149	10	699	-	219	-	918
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	3,959	8	18	-	939	272	207	26	5,123	306	19,624	58	6,686	1,545	27,913

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	3,436	7	3,362	7
February	3,409	7	3,461	7
March	3,349	7	3,434	7
April	3,451	8	3,416	7
May	3,533	9	3,448	8
June	3,630	9	3,583	8
July	3,628	8	3,586	7
August	3,674	9	3,676	8
September	3,670	9	3,791	8
October	3,621	9	3,793	7
November	3,586	9	3,763	8
December	3,372	6	3,703	8
Averages	3,531	9	3,585	8
Establishments reporting annual averages (small establishments only)	408	-	374	-
Average for all establishments	3,939	9	3,959	6

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	—	—	—	—	—	—
Quebec	2,254	1,534	795	4,583	—	4,583
Ontario	4,368	3,582	1,035	8,985	4	8,989
Manitoba	x	x	—	x	x	x
Saskatchewan	x	—	x	x	—	x
Alberta	439	80	178	697	675	1,372
British Columbia	279	31	43	353	—	353
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	7,910	5,259	2,079	15,248	837	16,085
Closing:						
Newfoundland	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—
Nova Scotia	x	x	x	x	x	x
New Brunswick	—	—	—	—	—	—
Quebec	2,533	803	607	3,942	—	3,942
Ontario	5,333	935	878	7,145	2	7,148
Manitoba	x	x	—	x	x	x
Saskatchewan	x	—	x	x	—	x
Alberta	440	35	239	715	575	1,290
British Columbia	265	42	42	349	—	349
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	9,525	1,894	1,806	13,225	744	13,969

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

Description	1963		1964	
	Quantity	Cost \$'000	Quantity	Cost \$'000
1. Large establishments reporting commodity detail:				
Bituminous coal:				
(a) From Canadian mines	ton 608	10	589	10
(b) Imported	" 7,531	85	7,076	78
Sub-bituminous coal (from Alberta mines only)	" —	—	—	—
Anthracite coal	" —	—	—	—
Lignite coal	" —	—	—	—
Coke	" 10	—	9	—
Gasoline (including gasoline used in cars and trucks)	Imp. gal. 545,779	204	515,927	203
Fuel oil including kerosene or coal oil	" 1,055,622	129	1,076,763	138
Wood	cord —	—	—	—
Gas:				
(a) Liquefied petroleum gases	Imp. gal. 78,992	14	81,872	25
(b) Other manufactured gas	M cu. ft. —	—	—	—
(c) Natural gas	" 56,675	39	55,095	38
Other fuel —	—	... —	—
Electricity purchased	kwh. 19,465,638	279	21,923,223	287
Steam purchased .....	... —	2	... —	2
2. Small establishments not reporting commodity detail:				
Estimate for fuel and electricity .....	... —	110	... —	109
3. All establishments:				
Total fuel and electricity used .....	... —	871	... —	891

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

Description	1963		1964	
	Quantity	Cost \$'000	Quantity	Cost \$'000
1. Materials used:				
Castings (rough and semi-finished) received from foundry:				
Iron (gray and malleable)	ton 717	241	1,229	396
Steel	" 771	462	2,219	648
Pig iron	" 501	34	433	31
Steel (except alloy):				
Bars	" 6,338	1,062	6,126	1,029
Sheets:				
Plain	" 12,547	1,877	10,892	1,784
Galvanized	" 3,593	490	1,055	164
Plates	" 48,520	7,281	49,863	7,556
Structural shapes	" 5,425	991	5,678	1,020
Wire	" 3	1	277	57
Alloy steel:				
Stainless:				
Billets, bars and rods .....	... ..	165	... ..	150
Other .....	... ..	2,399	... ..	2,340
Other alloy steel .....	... ..	318	... ..	401
Scrap iron and steel:				
Purchased	ton 370	16	265	11
Own make	" —	...	8	...
Other iron and steel .....	... ..	414	... ..	1,055
Ferro-alloys .....	... ..	5	... ..	43
Non-ferrous metals, including scrap:				
Aluminum:				
Castings	pound 18,360	17	22,740	23
Sheet	" 126,359	63	204,214	116
Other forms	" 101,812	60	144,940	84
Brass and bronze	" 107,168	60	96,009	56
Copper:				
Sheet	" 161,883	111	148,408	90
Other forms	" 70,552	36	120,749	84
Nickel	" 4,098	4	1,141	1
Lead	" 4,300	1	125	--
Tin	—	—	—	—
Zinc	pound 3,346	1	670	--
Babbitt metals and solders	" 7,947	8	8,688	7
Other non-ferrous metals .....	... ..	70	... ..	3
Other materials:				
Iron and steel pipe and fittings .....	... ..	5,334	... ..	4,743
Paints, oils and varnishes .....	... ..	157	... ..	154
Foundry coke	ton 320	11	238	10
Foundry sands	" 1,584	18	654	6
Plumbago and graphite	pound 1,219	--	1,462	--
Lumber	M ft. b.m. 321	46	524	46
Fireclay	ton 40	1	39	1
Cupola blocks and firebrick .....	... ..	99	... ..	130
Core oil	Imp. gal. 750	1	802	1
All other materials and components used ¹ .....	... ..	20,651	... ..	18,302
2. Containers and other packaging materials and supplies used .....	... ..	98	... ..	150
3. Operating, maintenance and repair supplies used (excluding fuel) .....	... ..	1,113	... ..	1,279
4. Amount paid out to others for work done on materials owned by establishments .....	... ..	1,114	... ..	1,325
Totals .....	... ..	44,833	... ..	43,296

¹ No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. These estimated costs were \$2,884,707 in 1963 and \$2,784,725 in 1964.

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

Description	1963		1964	
	Quantity	Value \$'000	Quantity	Value \$'000
1. Products:				
Heating boilers:				
Cast iron sectional heating boilers	No. 1	1	1	1
Steel heating boilers.....	No. 3,744	4,362	2,990	1,818
Power boilers, parts and equipment.....	...	33,561	...	40,974
Tanks (complete at factory) and cylinders:				
Pressure and vacuum tanks:				
Liquefied petroleum gas tanks	No. 7,977	1,997	8,510	2,353
Other pressure and vacuum tanks .....	...	4,128	...	2,536
Storage and processing tanks:				
Bulk storage (including above ground, etc.) .....	...	3,966	...	4,342
Basement oil storage tanks	No. 22,975	595	20,496	587
Other storage and processing tanks .....	...	3,740	...	2,941
Septic tanks, metal	No. 5,769	182	9,690	338
Other tanks.....	...	955	...	526
Tank bodies for trucks	No. 108	575	139	909
Fabricated products:				
Steel plate (cut, punched, etc.) .....	...	1,820	...	3,074
Structural shapes (cut, punched, etc.) .....	...	2,550	...	2,531
Miscellaneous steel plate work:				
Bins and hoppers.....	...	437	...	1,020
Smokestacks .....	...	209	...	382
Smoke breeching .....	...	439	...	546
Riveted and welded steel pipe:				
Stainless steel.....	ton 728	1,221	793	1,259
Other steel	635	439	848	553
Other plate work .....	...	2,766	...	2,033
Machinery and parts .....	...	2,607	...	2,200
Stokers, mechanical and parts .....	...	141	...	617
All other products .....	...	15,584	...	15,317
2. Amount received in payment for work done on materials and products owned by others	...	2,083	...	3,987
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above	...	(335)	...	(298)
Net adjustment for establishment receiving progress payments.....	...	1,190	...	3,934
Total adjusted value of shipment and work done .....	...	83,211	...	94,479

¹ Confidential data. Included with "All other products".

TABLE 14. Shipments of Selected Goods of Own Manufacture - All Industries, 1963 and 1964
(Includes shipments from other industries which manufacture, as a secondary activity, the commodities listed)

Description	1963		1964	
	Quantity	Value \$'000	Quantity	Value \$'000
Heating boilers:				
Cast iron sectional heating boilers:				
(a) Under 775 sq. ft.	No. 4,511	1,061	4,198	1,159
(b) 776-1,499 sq. ft.	" 1,743	709	1,509	622
(c) 1,500 sq. ft. and over.....	" 1,513	1,573	1,464	1,408
Steel heating boilers:				
(a) Under 112 sq. ft.	" 5,993	1,348	7,081	2,256
(b) 112-522 sq. ft.	" 1,075	2,543	516	962
(c) 523-1,245 sq. ft.	" 554	1,656	420	797
(d) 1,246 sq. ft. and over.....	" 110	785	92	472
Power boilers:				
Marine type	" 23	1,108	157	1,335
Water tube package boiler units	" 141	5,279	130	5,375
Fire tube package boiler units	" 1,523	5,635	2,154	9,186
Fire tube boilers	—	—	—	—
Boilers, other, type not specified	—	26,360	—	25,998
Totals	—	48,057	—	49,570

¹ Confidential. Included with "Boilers, other".

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:	
Matheson, I. & Co. Ltd.	New Glasgow
Steel and Engine Products Ltd.	Liverpool
Quebec:	
Bewill Boiler & Steel Works Ltd.	8651-9th Ave., Ville St-Michel
Boilers Incorporated	932 Jeanne Mance St., Montreal
Canadian Erectors Mfg. Ltd.	5441 Notre-Dame St. W., Montreal 30
Combustion Engineering-Superheater Ltd.	Sherbrooke
Douglas Bros. Ltd.	350 Décarie Blvd., St-Laurent
Drummond Welding & Steel Works Ltd.	Jacques-Cartier
Ferro Metal Ltd.	9500 St. Lawrence Blvd., Montreal
Latulippe, Michel Ent.	124 Dorchester St., Quebec
Les Industries Drummond Ltée	1105 Pierre-Bertrand Blvd., Quebec
Plate Works Ltd.	9770 St. Lawrence Blvd., Montreal
Rosteel Co. Ltd.	5530 de Castille St., Montreal
Stemac Ltd.	300 Canal Bank Rd., Ville St-Pierre
Vidal, H.C. Ent.	515 Carillon St., Montreal
Volcano Limited	St. Hyacinthe
Weir, J. & R. Limited	33 Nazareth St., Montreal
Ontario:	
Allen Tank & Welding Co. Ltd.	London
Amalgamated Metal Industries Ltd.	48 Abell St., Toronto
Aurora Tank & Welding	Aurora
Babcock-Wilcox & Goldie-McCulloch Ltd.	Galt
Bell, Robert Industries Ltd.	Seaforth
Bingley Steel Works Ltd.	Cornwall
Boyce Boiler & Machinery Co. Ltd.	246 Jarvis St., Toronto
Brantford Welding & Boiler Limited	Brantford
Campbell Steel & Iron Works Limited	855 Carling Ave., Ottawa 1
Chemical Equipment Fabricators Ltd.	752 Warden Ave., Scarborough
Clark Kennedy Co. Limited	931 Weston Road, Toronto 9
Cleaver-Brooks of Canada Ltd.	Stratford
Cokram, W. & Co. Ltd.	Paris
Courtland Welding Service Limited	Courtland
Crima Iron Works	Stratford
Dahmer Steel Ltd.	Kitchener
Domestic Tank & Equipment Ltd.	69 Comstock Rd., Scarborough
Essex Boiler Heating & Engineering Co.	1319 McDougall St., Windsor
Foster Wheeler Limited	81 Eastchester Ave., St. Catharines
Hamilton Boiler Works	645-649 Main St. W., Hamilton
Hassan Steel Fabricators Limited	London
Huron Canadian Fabricators Ltd.	Seaforth
Lloyd & Westwood Machinery Company	492 Gilbert Ave., Toronto 10
Lock, J.H. & Sons Ltd.	150 Perth Ave., Toronto 9
MacPherson, C.E. Limited	Kingston
Oakwood Iron Works Limited	644 Rogers Rd., Toronto 15
O'Connor Fuel Tanks Ltd.	15 Bermondsey Rd., Toronto 16
Orr & Sembower (Canada) Ltd.	644 Rodgers Rd., Toronto
Pendell Boiler Limited	50 Bartlett Ave., Toronto
Pfaudler Permutit Canada Ltd.	285 Raleigh Ave., Scarborough
Port Colborne Iron Works Limited	Port Colborne
Steel Fabricating & Welding Limited	Dundas
Wilson Engineering & Fabricating Ltd.	Winona
Woodstock Boiler Works	Woodstock
Manitoba:	
Canadian Brown Steel Tank Co. (1960) Ltd.	Brandon
Saskatchewan:	
Saskatoon Boiler Manufacturing Co. Limited, The	Saskatoon
Alberta:	
Black, Sivalls & Bryson Ltd.	6203-104th St., Edmonton
James Equipment Ltd. (Calgary Steel Tank Div.)	70th Avenue & MacLeod Trail, Calgary
Johnson Welding & Machine Shop Ltd.	Lloydminster
Liberty Boilers (Lethbridge) Ltd.	Lethbridge
Reliance Welding Works Ltd.	9566 Jasper Ave., Edmonton
Universal Industries Ltd.	Lloydminster
British Columbia:	
Lonhead-Haggerty Eng. & Mfg. Co. Ltd.	Burnaby 2
Patterson Boiler Works Limited	730 Alexander St., Vancouver 4
Pease, Sandford Ltd.	P.O. Box 128, North Vancouver 4
Steelweld Limited	1571 Main St., Vancouver 4
Welding Shop & Engineering Co. Ltd., The	1600 Main St., Vancouver 4
Western Welding Works Ltd.	878 Powell St., Vancouver 4
Westminster Boiler & Tank Company Ltd.	New Westminster

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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