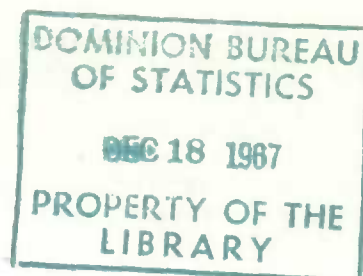


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ANNUAL



STEEL PIPE AND TUBE MILLS

1965

ANNUAL CENSUS OF MANUFACTURES

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STEEL PIPE AND TUBE MILLS

1965

For statistical purposes the industry titled Steel Pipe and Tube Mills in the revised Standard Industrial Classification covers the operations of establishments primarily engaged in manufacturing welded and seamless steel pipe and tubing. Establishments primarily engaged in manufacturing rivetted pipe are classified in the Miscellaneous Metal Fabricating Industries and those primarily engaged in manufacturing cast iron pipe are included in Iron Foundries.

Value of shipments and other revenue of the Steel Pipe and Tube Mills industry industry totalled \$211 million, an increase of \$14 million over 1964. This amount included shipments of steel pipe and tubing and steel fittings valued at \$174 million, shipments of other products (secondary products) valued at \$25 million, and other revenue of \$12 million.

This industry's shipments of steel pipe and tubing and steel fittings represented 87.5 per cent of its manufacturing revenue. Secondary products shipped by this industry in 1965 included semi-processed pipe, steel plates, steel sheets, automobile parts, etc.

The cost of materials and supplies, fuel and electricity, etc. (inputs), used in the production of goods of own manufacture, increased by \$13 million. Cost of inputs in 1965 represented 71.9 per cent of value of shipments of own manufacture (outputs), compared to 69.8 per cent in 1964.

It should be noted that Table 13 covers the shipments of the establishments classified to this industry whereas Table 14 presents the total value of shipments of specific commodities of Canadian manufacture and includes shipments of those commodities reported by establishments classified to other industries.

SYMBOLS

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

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

TABLE 1. Principal Statistics, 1961-65

Year and province	Estab-lish-ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec-tricity	Cost of materials and supplies	Value of shipments of goods of own manu-facture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1961													
Totals	18	2,587	5,784	13,882	2,123	101,731	154,868	47,808	-	-	3,407	18,793	48,050
1962													
Totals	19	2,768	6,130	14,997	2,870	78,178	117,248	37,920	-	-	3,676	20,465	38,244
1963													
Totals	21	3,002	6,479	16,732	3,120	94,805	142,565	44,029	-	-	3,840	22,276	44,984
1964													
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec	4	307	626	1,526	321	15,806	21,009	4,828	-	-	365	1,901	4,988
Ontario	11	2,321	5,198	14,079	1,983	74,618	113,998	37,831	-	-	2,986	18,363	38,627
Manitoba	-	-	-	-	-	-	-	-	-	-	-	-	-
Saskatchewan	1	840	1,917	4,437	1,212	35,641	48,238	14,676	-	-	1,086	6,063	15,040
Alberta	4												
British Columbia	1												
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	21	3,468	7,741	20,042	3,516	125,965	183,246	57,335	-	-	4,437	26,328	58,654
1965													
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec	4	291	625	1,556	316	17,400	21,934	4,391	-	-	357	2,005	4,431
Ontario	11	2,565	5,667	15,419	2,185	77,683	118,324	38,845	-	-	3,300	20,685	39,848
Manitoba	-	-	-	-	-	-	-	-	-	-	-	-	-
Saskatchewan	1	843	1,796	4,652	1,335	43,812	58,371	14,997	-	-	1,142	6,830	14,849
Alberta	4												
British Columbia	1												
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	21	3,699	8,088	21,627	3,836	138,895	198,629	58,232	-	-	4,799	29,520	59,128

TABLE 2. Principal Statistics classified by Size Group based on Value of Shipments of Goods of Own Manufacture, 1964 and 1965

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	
1964													
Under \$10,000	—	—	—	—	—	—	—	—	—	—	—	—	—
\$ 10,000 to \$ 24,999	—	—	—	—	—	—	—	—	—	—	—	—	—
25,000 " 49,999	—	—	—	—	—	—	—	—	—	—	—	—	—
50,000 " 99,999	—	—	—	—	—	—	—	—	—	—	—	—	—
100,000 " 199,999	4	65	152	265	29	1,733	2,732	993	—	—	84	387	984
200,000 " 499,999													
500,000 " 999,999													
1,000,000 " 4,999,999													
5,000,000 and over	11	3,045	6,835	17,980	3,234	111,527	161,397	49,772	—	—	3,775	22,641	51,102
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	157	974	—
Totals	21	3,468	7,741	20,042	3,516	125,965	183,246	57,335	—	—	4,437	26,328	58,634
1965													
Under \$10,000	—	—	—	—	—	—	—	—	—	—	—	—	—
\$ 10,000 to \$ 24,999	—	—	—	—	—	—	—	—	—	—	—	—	—
25,000 " 49,999	—	—	—	—	—	—	—	—	—	—	—	—	—
50,000 " 99,999	—	—	—	—	—	—	—	—	—	—	—	—	—
100,000 " 199,999	3	56	128	217	22	1,026	1,766	759	—	—	89	399	756
200,000 " 499,999													
500,000 " 999,999													
1,000,000 " 4,999,999													
5,000,000 and over	12	3,312	7,270	19,753	3,624	125,911	179,781	51,239	—	—	4,290	26,542	52,199
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	25	166	(48)
Totals	21	3,699	8,088	21,627	3,836	138,895	198,629	58,232	—	—	4,799	29,520	59,128

TABLE 3. Principal Statistics classified by Size Group based on Manufacturing Value Added, 1964 and 1965

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	
1964													
Under \$10,000	—	—	—	—	—	—	—	—	—	—	—	—	—
\$ 10,000 to \$ 24,999	—	—	—	—	—	—	—	—	—	—	—	—	—
25,000 " 49,999	—	—	—	—	—	—	—	—	—	—	—	—	—
50,000 " 99,999	1	11	25	47	1	108	196	91	—	—	15	72	90
100,000 " 199,999	1	42	90	223	62	1,794	1,805	109	—	—	50	266	108
200,000 " 499,999	3	54	126	217	27	1,624	2,536	902	—	—	69	314	894
500,000 " 999,999	2	76	162	318	39	2,439	3,795	1,367	—	—	97	523	1,385
1,000,000 " 4,999,999	9	811	1,684	4,242	620	49,146	63,396	16,065	—	—	1,070	5,903	16,377
5,000,000 and over	5	2,474	5,653	14,994	2,767	70,852	111,518	38,801	—	—	2,979	18,275	39,800
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	157	974	—
Totals	21	3,468	7,741	20,042	3,516	125,965	183,246	57,335	—	—	4,437	26,328	58,634
1965													
Under \$10,000	—	—	—	—	—	—	—	—	—	—	—	—	—
\$ 10,000 to \$ 24,999	—	—	—	—	—	—	—	—	—	—	—	—	—
25,000 " 49,999	—	—	—	—	—	—	—	—	—	—	—	—	—
50,000 " 99,999	4	69	155	279	33	1,906	3,044	1,115	—	—	105	479	1,110
100,000 " 199,999													
200,000 " 499,999													
500,000 " 999,999													
1,000,000 " 4,999,999	3	138	303	657	114	4,771	6,221	2,592	—	—	174	957	2,588
5,000,000 and over	10	920	1,929	5,024	740	58,943	76,624	17,947	—	—	1,185	7,194	18,047
Head offices, sales offices and auxiliary units	4	2,572	5,701	15,667	2,948	73,274	112,740	36,578	—	—	3,310	20,724	37,411
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	25	166	(38)
Totals	21	3,699	8,088	21,627	3,836	138,895	198,629	58,232	—	—	4,799	29,520	59,128

TABLE 4. Principal Statistics classified by Size Group based on Total Value Added, 1964 and 1965

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	
1964													
Under \$10,000	—	—	—	—	—	—	—	—	—	—	—	—	—
\$ 10,000 to \$ 24,999	—	—	—	—	—	—	—	—	—	—	—	—	—
25,000 " 49,999	—	—	—	—	—	—	—	—	—	—	—	—	—
50,000 " 99,999	1	11	25	47	1	108	196	91	—	—	15	72	90
100,000 " 199,999	1	42	90	223	62	1,794	1,805	109	—	—	50	266	108
200,000 " 499,999	3	54	126	217	27	1,625	2,536	902	—	—	69	314	894
500,000 " 999,999	2	76	162	318	39	2,439	3,795	1,367	—	—	97	523	1,385
1,000,000 " 4,999,999	9	811	1,684	4,242	620	49,146	63,396	16,065	—	—	1,070	5,903	16,377
5,000,000 and over	5	2,474	5,653	14,994	2,767	70,852	111,518	38,801	—	—	2,979	18,275	39,800*
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	157	974	—
Totals	21	3,468	7,741	20,042	3,516	125,965	183,246	57,335	—	—	4,437	26,328	58,654
1965													
Under \$10,000	—	—	—	—	—	—	—	—	—	—	—	—	—
\$ 10,000 to \$ 24,999	—	—	—	—	—	—	—	—	—	—	—	—	—
25,000 " 49,999	—	—	—	—	—	—	—	—	—	—	—	—	—
50,000 " 99,999	4	69	155	279	33	1,906	3,044	1,115	—	—	105	479	1,110
100,000 " 199,999													
200,000 " 499,999													
500,000 " 999,999													
1,000,000 " 4,999,999	3	138	303	657	114	4,771	6,221	2,592	—	—	174	957	2,588
5,000,000 and over	10	920	1,929	5,024	740	58,943	76,624	17,947	—	—	1,185	7,194	18,067
Head offices, sales offices and auxiliary units	4	2,572	5,701	15,667	2,948	73,274	112,740	36,578	—	—	3,310	20,724	37,411
...	...	...	...	...	...	...	...	...	...	...	25	166	(48)
Totals	21	3,699	8,088	21,627	3,836	138,895	198,629	58,232	—	—	4,799	29,520	59,128

TABLE 5. Principal Statistics classified by Size Group based on Total Employed, 1964 and 1965

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		
1964														
Under 5 employed	—	—	—	—	—	—	—	—	—	—	—	—	—	
5 - 14 employed	}	5	94	215	392	46	2,543	4,298	1,754	—	—	123	586	1,765
15 - 49 "		4	239	488	1,179	140	8,354	12,595	4,289	—	—	282	1,572	4,279
50 - 99 "		7	661	1,384	3,476	563	44,215	54,835	12,491	—	—	896	4,920	12,810
100 - 199 "		}	5	2,474	5,653	14,994	2,767	70,852	111,518	38,801	—	—	2,979	18,275	39,800
200 - 499 "	500 employed and over .....		...	...	...	...	...	...	...	...	...	157	974	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	21	3,468	7,741	20,042	3,516	125,965	183,246	57,335	—	—	4,437	26,328	58,654	
1965														
Under 5 employed	—	—	—	—	—	—	—	—	—	—	—	—	—	
5 - 14 employed	}	6	144	325	670	123	4,853	6,505	2,729	—	—	200	1,002	2,725
15 - 49 "		3	222	449	1,028	227	10,511	14,573	3,742	—	—	267	1,647	3,776
50 - 99 "		8	761	1,614	4,261	538	50,257	64,811	15,183	—	—	997	5,980	15,263
100 - 199 "		}	4	2,572	5,701	15,667	2,948	73,274	112,740	36,578	—	—	3,310	20,724	37,410
200 - 499 "	500 employed and over .....		...	...	...	...	...	...	...	...	...	25	166	(48)
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	21	3,699	8,088	21,627	3,836	138,895	198,629	58,232	—	—	4,799	29,520	59,128	

TABLE 6. Principal Statistics classified by Type of Organization, 1964 and 1965

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	
1964													
Individual ownerships	-	-	-	-	-	-	-	-	-	-	-	-	-
Partnerships	-	-	-	-	-	-	-	-	-	-	-	-	-
Incorporated companies	21	3,468	7,741	20,042	3,516	125,965	183,246	57,335	-	-	4,280 ^r	25,354 ^r	58,654
Co-operatives	-	-	-	-	-	-	-	-	-	-	-	-	-
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	157	974	-
Totals	21	3,468	7,741	20,042	3,516	125,965	183,246	57,335	-	-	4,437	26,328	58,654
1965													
Individual ownerships	-	-	-	-	-	-	-	-	-	-	-	-	-
Partnerships	-	-	-	-	-	-	-	-	-	-	-	-	-
Incorporated companies	21	3,699	8,088	21,627	3,836	138,895	198,629	58,232	-	-	4,774	29,353	59,175
Co-operatives	-	-	-	-	-	-	-	-	-	-	-	-	-
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	25	166	(48)
Totals	21	3,699	8,088	21,627	3,836	138,895	198,629	58,232	-	-	4,799	29,520	59,128

TABLE 7. Calculation of Output, Input and Value Added, 1964 and 1965

	Manufacturing activity		Non-manufacturing activities		Total activity	
	1964	1965	1964	1965	1964	1965
\$'000						
Output						
1. Shipments and other revenue	183,246	198,629	13,383	12,153	196,629	210,782
Inventories—Goods of own manufacture:						
Add closing—Goods in process	4,891	6,523	...	...	4,891	6,523
Finished goods	21,372	22,065	...	...	21,372	22,065
Deduct opening—Goods in process	5,581	4,883	...	...	5,581	4,883
Finished goods	17,112	21,371	...	...	17,112	21,371
2. Net inventory change	3,570	2,334	...	...	3,570	2,334
3. Gross output (1 + 2)	186,816	200,963	13,383	12,153	200,199	213,116
Input						
4. Purchases of goods not of own manufacture .....	...	...	11,791	10,830	11,791	10,830
Inventories—Goods not of own manufacture:						
Add opening .....	...	...	1,241	1,261	1,241	1,261
Deduct closing .....	...	...	1,261	1,346	1,261	1,346
5. Cost of goods sold (not of own manufacture) .....	...	...	11,771	10,745	11,771	10,745
6. Materials, supplies, etc.	125,965	138,895	293	512	126,258	139,407
7. Fuel and electricity	3,516	3,836	...	...	3,516	3,836
8. Gross input (5 + 6 + 7)	129,481	142,731	12,064	11,257	141,545	153,988
Value added (3 - 8)	57,335	58,232	1,319	896	58,654	59,128

TABLE 8. Employment and Payroll, 1964 and 1965

Year and province	Employees										Salaries and wages				
	Production and related workers				Adminis- trative and office		Sales and distribution		Total		Production and related workers		Admin- istrative and office	Sales and distrib- ution	Total
	Manufacturing		Other								Manufac- turing	Other			
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female						Manufac- turing	Other
	number										\$'000				
1964															
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec	307	-	17	-	35	2	4	-	363	2	1,526	85	260	30	1,901
Ontario	2,305	16	10	-	401	135	91	28	2,807	179	14,079	45	3,558	682	18,363
Manitoba	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Saskatchewan	840	-	-	-	185	32	24	5	1,049	37	4,437	-	1,366	261	6,063
Alberta															
British Columbia															
Yukon and Northwest Terri- tories	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	3,452	16	27	-	621	169	119	33	4,219	218	20,042	131	5,183	972	26,328
1965															
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec	291	-	8	-	36	2	15	5	350	7	1,556	43	299	107	2,005
Ontario	2,547	18	22	-	485	128	72	28	3,126	174	15,419	134	4,464	668	20,685
Manitoba	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Saskatchewan	843	-	-	-	240	33	21	5	1,104	38	4,652	-	1,907	271	6,830
Alberta															
British Columbia															
Yukon and Northwest Terri- tories	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	3,681	18	30	-	761	163	108	38	4,580	219	21,627	177	6,671	1,046	29,520

TABLE 9. Production and Related Workers, - Manufacturing Activity, 1964 and 1965

Month	1964		1965	
	Male	Female	Male	Female
	number			
Establishments reporting monthly detail (large establishments only):				
January	3,286	13	3,340	17
February	3,274	15	3,363	17
March	3,458	15	3,506	17
April	3,571	17	3,713	17
May	3,673	17	3,729	17
June	3,679	17	3,960	19
July	3,386	17	3,892	18
August	3,547	17	3,648	17
September	3,588	17	3,677	20
October	3,333	15	3,579	20
November	3,362	15	3,884	20
December	3,284	17	3,881	20
Averages	3,452	16	3,681	18
Establishments reporting annual averages (small establishments only)	-	-	-	-
Average for all establishments	3,452	16	3,681	18

TABLE 10. Inventories, 1965

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	—	—	—	—	—	—
New Brunswick	—	—	—	—	—	—
Quebec	1,139	231	2,029	3,399	106	3,505
Ontario	8,548	2,998	10,622	22,168	1,134	23,302
Manitoba	—	—	—	—	—	—
Saskatchewan	6,285	1,654	8,720	16,658	21	16,680
Alberta						
British Columbia						
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	15,972	4,883	21,371	42,226	1,261	43,487
Closing:						
Newfoundland	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—
New Brunswick	—	—	—	—	—	—
Quebec	2,768	263	2,171	5,201	85	5,286
Ontario	11,728	3,934	10,076	25,738	1,246	26,984
Manitoba	—	—	—	—	—	—
Saskatchewan	8,188	2,327	9,818	20,332	15	20,347
Alberta						
British Columbia						
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	22,683	6,523	22,065	51,271	1,346	52,617

TABLE 11. Purchased Fuel and Electricity Used, 1964 and 1965

Description	1964		1965	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
1. Large establishments reporting commodity detail:				
Bituminous coal:				
(a) From Canadian mines	ton	—	—	—
(b) Imported	"	554	590	8
Sub-bituminous coal (from Alberta mines only)	"	—	—	—
Anthracite coal	"	—	—	—
Lignite coal	"	—	—	—
Coke	"	91	—	—
Gasoline (including gasoline used in cars and trucks)	Imp. gal.	124,851	140,593	46
Fuel oil including kerosene or coal oil	"	5,080,949	5,252,795	495
Wood	cord	—	—	—
Gas:				
(a) Liquefied petroleum gases	Imp. gal.	1,169,261	1,421,230	355
(b) Other manufactured gas	M cu. ft.	490,242	567,897	159
(c) Natural gas	"	1,361,251	1,532,793	701
Other fuel		—	—	—
Electricity purchased	kwh.	158,016,290	232,778,238	2,073
Steam purchased		—	—	—
2. Small establishments not reporting commodity detail:				
Estimate for fuel and electricity		—	—	—
3. All establishments:				
Total fuel and electricity used .....	...	3,516	...	3,836

TABLE 12. Materials and Supplies - Manufacturing Activity, 1964 and 1965

Description	1964		1965	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
1. Materials used:				
Steel (carbon and alloy):				
Plates, sheets and strip, hot or cold rolled	ton 607,422	80,216	677,205	83,861
Other iron and steel (including steel billets) .....	...	24,865	...	36,383
Other materials:				
Firebrick and cupola blocks .....	...	459	...	576
Paints and varnishes .....	...	185	...	228
Sulphuric acid, 100%	lb. 5,040,778	60	1,602,036	28
Welding rod and wire	ton 763	230	577	193
Zinc	lb. 4,959,259	639	5,285,939	737
All other materials and components used .....	...	13,269	...	10,587
2. Containers and other packaging materials and supplies used .....	...	1,004	...	940
3. Operating, maintenance and repair supplies used (excluding fuel) .....	...	4,732	...	5,089
4. Amount paid out to others for work done on materials owned by establishments .....	...	305	...	275
Totals .....	...	125,965	...	138,895

TABLE 13. Shipments of Goods of Own Manufacture, 1964 and 1965

Description	1964		1965	
	Quantity	Value	Quantity	Value
	tons	\$'000	tons	\$'000
1. Products:				
Steel pipe and tubing (carbon and alloy)	763,178	164,760	770,654	172,317
Steel pipe fittings	3,167	1,589	3,151	1,452
All other products .....	...	16,948	...	24,951
2. Amount received in payment for work done on materials and products owned by others .....	...	130	...	80
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above .....	...	(180)	...	(171)
Net adjustment for establishments receiving progress payments	-	-	-	-
Total adjusted value of shipments and work done .....	...	183,246	...	198,629

TABLE 14. Shipments of Selected Goods of Own Manufacture - All Industries
(Includes shipments from other industries which manufacture, as a secondary activity, the commodities listed)
Steel Pipe, Tubing and Fittings, 1958-65

Item	Quantity	Selling value of factory shipments
	tons	\$'000
Steel pipe and tubing:		
1958	537,880	117,805
1959	488,887	106,004
1960	518,422	110,196
1961	678,000	142,446
1962	498,000	107,282
1963	610,000	132,308
1964	776,000	170,697
1965	786,000	181,103
Steel pipe fittings:		
1958	13,277	8,924
1959	12,433	8,314
1960	13,276	8,787
1961	10,900	7,918
1962	10,100	8,540
1963	10,500	8,651
1964	9,000	10,115
1965	9,900	10,610

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
Quebec:	
Dosco Steel Ltd.	5870 St. Patrick St., Montreal
Standard Tubes and T.I. Ltd.	5700 Paré St., Montreal
Steel Co. of Canada Ltd., The	St. Ambroise St., Montreal
Steel Co. of Canada Ltd., The	Contrecoeur
Ontario:	
Associated Tube Industries Limited	Milliken
Barton Tubes Limited	Burlington
Bundy Tubing Co. of Canada Ltd.	Bramalea
Central Metal Fabricators Ltd.	Rexdale
Driam Pipe (Canada) Limited	Horner Ave., Toronto
Mannesmann Tube Co. Ltd.	Sault Ste Marie
Page-Hersey Tubes Ltd.	Welland
Sonco Tube Ltd.	Brampton
Standard Tube and T.I. Limited	Woodstock
Tubular Steel Products Ltd.	97 Manville Rd., Scarborough
Welland Tubes, Div. of Steel Co. of Canada Ltd., The	Welland
Saskatchewan:	
Interprovincial Steel and Pipe Corp. Ltd.	Regina
Alberta:	
Alberta Phoenix Tube and Pipe Ltd.	Calgary
Alberta Phoenix Tube and Pipe Ltd.	Edmonton
Camrose Tubes Ltd.	Camrose
Page-Hersey Tubes Western Ltd.	Camrose
British Columbia:	
Canadian Western Pipe Mills Div. of Alberta Phoenix Tube & Pipe Ltd.	Port Moody

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 55 (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 135 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 reports reflect the complete implementation of these changes and enable comparisons to be made back to and including 1961. 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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