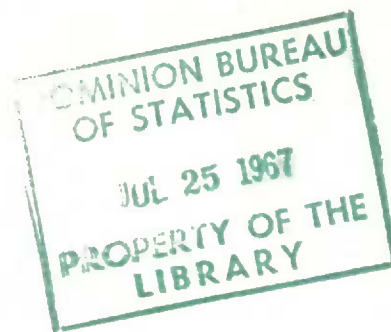


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ANNUAL



# RAILROAD ROLLING STOCK INDUSTRY

## 1965

ANNUAL CENSUS  
OF MANUFACTURES

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## RAILROAD ROLLING STOCK INDUSTRY

1965

For statistical purposes the industry titled Railroad Rolling Stock Industry in the revised Standard Industrial Classification covers the operations of establishments primarily engaged in building and re-building locomotives of any type or gauge and railroad cars (including frames and parts) for freight and passenger service. This industry includes establishments of railway companies primarily engaged in manufacturing or repairing locomotives and cars.

An analysis of the principal statistics indicates that the value of shipments for 1965 increased by 27 per cent over 1964, value added increased 39 per cent and the value of production increased 22 per cent. During this same period the ratio of materials to production was 63 per cent whereas in 1964 the ratio was 66 per cent.

The value of production of railroad equipment represented 76 per cent of the total production of the firms classified to this industry. Some of the other products produced and shipped were machinery, heat transfer equipment, pumps, electric motors, buses, trucks, water softeners and scales.

### 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, 1961-65

Year and province	Establishments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and electricity	Cost of materials and supplies	Value of shipments of goods of own manufacture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
	No.		'000			'000				'000		'000	
1961													
Totals.....	16	2,772	5,677	11,906	2,016	34,653	63,361	28,059	-	-	4,138	20,907	31,204
1962													
Totals.....	14	3,121	6,562	14,225	2,163	50,523	88,079	34,798	-	-	4,319	21,599	37,898
1963													
Totals.....	13	2,488	5,316	11,751	1,866	56,908	87,722	28,710	-	-	3,449	18,355	31,714
1964													
Newfoundland .....	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island.....	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia .....	1	x	x	x	x	x	x	x	-	-	x	x	x
New Brunswick .....	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec .....	3	x	x	x	x	x	x	x	-	-	x	x	x
Ontario .....	8	1,890	4,013	9,943	660	44,529	68,135	22,854	-	-	2,804	15,150	26,706
Manitoba .....	1	x	x	x	x	x	x	x	-	-	x	x	x
Saskatchewan .....	-	-	-	-	-	-	-	-	-	-	-	-	-
Alberta .....	-	-	-	-	-	-	-	-	-	-	-	-	-
British Columbia.....	1	x	x	x	x	x	x	x	-	-	x	x	x
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals.....	14	3,660	7,863	18,415	2,167	84,632	128,893	42,162	-	-	4,756	26,098	46,785
1965													
Newfoundland .....	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island.....	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia .....	1	x	x	x	x	x	x	x	-	-	x	x	x
New Brunswick .....	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec .....	3	x	x	x	x	x	x	x	-	-	x	x	x
Ontario .....	8	2,631	5,411	13,913	730	56,253	92,744	36,955	-	-	3,428	20,132	42,966
Manitoba .....	1	x	x	x	x	x	x	x	-	-	x	x	x
Saskatchewan .....	-	-	-	-	-	-	-	-	-	-	-	-	-
Alberta .....	-	-	-	-	-	-	-	-	-	-	-	-	-
British Columbia.....	-	-	-	-	-	-	-	-	-	-	-	-	-
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals.....	13	4,744	10,007	24,208	2,288	102,780	162,951	58,936	-	-	6,002	33,179	64,964

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	
<b>1964</b>													
Under \$10,000 .....	-	-	-	-	-	-	-	-	-	-	-	-	-
\$ 10,000 to \$ 24,999 .....	-	-	-	-	-	-	-	-	-	-	-	-	-
25,000 " 49,999 .....	-	-	-	-	-	-	-	-	-	-	-	-	-
50,000 " 99,999 .....	-	-	-	-	-	-	-	-	-	-	-	-	-
100,000 " 199,999 .....	4	26	51	114	10	842	1,200	347	-	-	47	248	432
200,000 " 499,999 .....													
500,000 " 999,999 .....													
1,000,000 " 4,999,999 .....													
5,000,000 and over .....	8	3,060	6,426	15,055	1,752	77,179	114,054	35,198	-	-	3,885	21,046	38,715
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Totals .....</b>	<b>14</b>	<b>3,660</b>	<b>7,863</b>	<b>18,415</b>	<b>2,167</b>	<b>84,632</b>	<b>128,693</b>	<b>42,162</b>	<b>-</b>	<b>-</b>	<b>4,756</b>	<b>26,098</b>	<b>46,785</b>
<b>1965</b>													
Under \$10,000 .....	-	-	-	-	-	-	-	-	-	-	-	-	-
\$ 10,000 to \$ 24,999 .....	-	-	-	-	-	-	-	-	-	-	-	-	-
25,000 " 49,999 .....	-	-	-	-	-	-	-	-	-	-	-	-	-
50,000 " 99,999 .....	-	-	-	-	-	-	-	-	-	-	-	-	-
100,000 " 199,999 .....	3	27	53	128	9	772	1,334	559	-	-	46	252	647
200,000 " 499,999 .....													
500,000 " 999,999 .....													
1,000,000 " 4,999,999 .....													
5,000,000 and over .....	5	4,065	8,360	20,306	1,670	91,660	140,794	48,538	-	-	4,961	27,145	53,536
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Totals .....</b>	<b>13</b>	<b>4,774</b>	<b>10,007</b>	<b>24,208</b>	<b>2,288</b>	<b>102,780</b>	<b>162,951</b>	<b>58,936</b>	<b>-</b>	<b>-</b>	<b>6,002</b>	<b>33,179</b>	<b>64,964</b>

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	
<b>1964</b>													
Under \$10,000 .....	-	-	-	-	-	-	-	-	-	-	-	-	-
\$ 10,000 to \$ 24,999 .....	-	-	-	-	-	-	-	-	-	-	-	-	-
25,000 " 49,999 .....	-	-	-	-	-	-	-	-	-	-	-	-	-
50,000 " 99,999 .....	4	26	51	114	10	842	1,200	347	-	-	47	248	432
100,000 " 199,999 .....													
200,000 " 499,999 .....													
500,000 " 999,999 .....													
1,000,000 " 4,999,999 .....	6	1,227	2,822	6,622	869	26,625	42,294	15,124	-	-	1,723	9,832	16,870
5,000,000 and over .....	4	2,407	4,989	11,680	1,289	57,165	85,199	26,691	-	-	2,986	16,018	29,483
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Totals .....</b>	<b>14</b>	<b>3,680</b>	<b>7,863</b>	<b>18,415</b>	<b>2,167</b>	<b>84,632</b>	<b>128,693</b>	<b>42,162</b>	<b>-</b>	<b>-</b>	<b>4,756</b>	<b>26,098</b>	<b>46,785</b>
<b>1965</b>													
Under \$10,000 .....	-	-	-	-	-	-	-	-	-	-	-	-	-
\$ 10,000 to \$ 24,999 .....	-	-	-	-	-	-	-	-	-	-	-	-	-
25,000 " 49,999 .....	-	-	-	-	-	-	-	-	-	-	-	-	-
50,000 " 99,999 .....	-	-	-	-	-	-	-	-	-	-	-	-	-
100,000 " 199,999 .....	3	27	53	128	9	772	1,334	559	-	-	46	252	647
200,000 " 499,999 .....													
500,000 " 999,999 .....													
1,000,000 " 4,999,999 .....													
5,000,000 and over .....	5	4,065	8,360	20,306	1,670	91,660	140,794	48,538	-	-	4,961	27,145	53,536
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Totals .....</b>	<b>13</b>	<b>4,774</b>	<b>10,007</b>	<b>24,208</b>	<b>2,288</b>	<b>102,780</b>	<b>162,951</b>	<b>58,936</b>	<b>-</b>	<b>-</b>	<b>6,002</b>	<b>33,179</b>	<b>64,964</b>



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	
1964	No.		'000			\$'000				\$'000		\$'000	
Under \$10,000 .....	—	—	—	—	—	—	—	—	—	—	—	—	—
\$ 10,000 to \$ 24,999 .....	—	—	—	—	—	—	—	—	—	—	—	—	—
25,000 " 49,999 .....	—	—	—	—	—	—	—	—	—	—	—	—	—
50,000 " 99,999 .....	—	—	—	—	—	—	—	—	—	—	—	—	—
100,000 " 199,999 .....	4	26	51	114	10	842	1,200	347	—	—	47	248	432
200,000 " 499,999 .....	—	—	—	—	—	—	—	—	—	—	—	—	—
500,000 " 999,999 .....	—	—	—	—	—	—	—	—	—	—	—	—	—
1,000,000 " 4,999,999 .....	5	661	1,582	3,743	638	8,712	18,496	9,470	—	—	944	5,502	10,488
5,000,000 and over .....	5	2,973	6,229	14,559	1,520	75,078	108,997	32,345	—	—	3,765	20,348	35,864
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals .....	14	3,660	7,863	18,415	2,167	84,632	128,693	42,162	—	—	4,756	26,098	46,785
1965													
Under \$10,000 .....	—	—	—	—	—	—	—	—	—	—	—	—	—
\$ 10,000 to \$ 24,999 .....	—	—	—	—	—	—	—	—	—	—	—	—	—
25,000 " 49,999 .....	—	—	—	—	—	—	—	—	—	—	—	—	—
50,000 " 99,999 .....	—	—	—	—	—	—	—	—	—	—	—	—	—
100,000 " 199,999 .....	3	27	53	128	9	772	1,334	559	—	—	46	252	647
200,000 " 499,999 .....	—	—	—	—	—	—	—	—	—	—	—	—	—
500,000 " 999,999 .....	—	—	—	—	—	—	—	—	—	—	—	—	—
1,000,000 " 4,999,999 .....	5	682	1,593	3,775	609	10,348	20,823	9,839	—	—	995	5,782	10,781
5,000,000 and over .....	5	4,065	8,360	20,306	1,670	91,660	140,794	48,538	—	—	4,961	27,145	53,536
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals .....	13	4,774	10,007	24,208	2,288	102,780	162,951	58,936	—	—	6,002	33,179	64,964

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 .....	}	4	26	51	114	10	842	1,200	347	—	—	47	248	432
5- 14 employed .....														
15- 49 " .....														
50- 99 " .....														
100-199 " .....	3	352	863	1,930	551	5,487	11,728	5,952	—	—	459	2,598	5,932	
200-499 " .....	3	579	1,375	3,413	623	6,765	15,943	8,694	—	—	792	4,759	9,752	
500 employed and over .....	4	2,703	5,573	12,958	984	71,537	99,822	27,169	—	—	3,458	18,493	30,669	
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...	
Totals .....	14	3,660	7,863	18,415	2,167	84,632	128,693	42,162	—	—	4,756	26,096	46,785	
1965														
Under 5 employed .....	}	3	27	53	128	9	772	1,334	559	—	—	46	252	647
5- 14 employed .....														
15- 49 " .....														
50- 99 " .....														
100-199 " .....	3	289	730	1,585	518	5,919	11,198	4,592	—	—	399	2,307	4,592	
200-499 " .....	3	680	1,543	3,903	637	8,175	19,650	10,974	—	—	926	5,498	11,909	
500 employed and over .....	4	3,778	7,680	18,593	1,124	87,913	130,768	42,812	—	—	4,631	25,121	47,816	
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...	
Totals .....	13	4,774	10,007	24,208	2,288	102,780	162,951	58,936	—	—	6,002	33,179	64,964	

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

Type of organization	Establishments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and electricity	Cost of materials and supplies	Value of shipments of goods of own manufacture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
<b>1964</b>													
Individual ownerships .....	-	-	-	-	-	-	-	-	-	-	-	-	-
Partnerships .....	-	-	-	-	-	-	-	-	-	-	-	-	-
Incorporated companies .....	14	3,660	7,863	18,415	2,167	84,632	128,993	42,162	...	...	4,756	26,098	46,785
Co-operatives .....	-	-	-	-	-	-	-	-	...	...	-	-	-
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Totals .....</b>	<b>14</b>	<b>3,660</b>	<b>7,863</b>	<b>18,415</b>	<b>2,167</b>	<b>84,632</b>	<b>128,693</b>	<b>42,162</b>	<b>-</b>	<b>-</b>	<b>4,756</b>	<b>26,098</b>	<b>46,785</b>
<b>1965</b>													
Individual ownerships .....	-	-	-	-	-	-	-	-	-	-	-	-	-
Partnerships .....	-	-	-	-	-	-	-	-	-	-	-	-	-
Incorporated companies .....	13	4,774	10,007	24,208	2,288	102,780	162,951	58,936	...	...	6,002	33,179	64,964
Co-operatives .....	-	-	-	-	-	-	-	-	...	...	-	-	-
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Totals .....</b>	<b>13</b>	<b>4,774</b>	<b>10,007</b>	<b>24,208</b>	<b>2,288</b>	<b>102,780</b>	<b>162,951</b>	<b>58,936</b>	<b>-</b>	<b>-</b>	<b>6,002</b>	<b>33,179</b>	<b>64,964</b>

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						
<b>Output</b>						
1. Shipments and other revenue .....	128,693	162,951	25,539	51,331	154,232	214,282
Inventories— Goods of own manufacture:						
Add closing— Goods in process .....	...	...	...	...	...	...
Finished goods .....	1,472	2,525	...	...	1,472	2,525
Deduct opening— Goods in process .....	...	...	...	...	...	...
Finished goods .....	1,203	1,472	...	...	1,203	1,472
2. Net inventory change .....	268	1,053	...	...	268	1,053
3. Gross output (1 + 2) .....	128,961	164,004	25,539	51,331	154,500	215,335
<b>Input</b>						
4. Purchases of goods not of own manufacture .....	...	...	21,432	44,808	21,432	44,808
Inventories— Goods not of own manufacture:						
Add opening .....	...	...	2,060	2,883	2,060	2,883
Deduct closing .....	...	...	2,883	2,726	2,883	2,726
5. Cost of goods sold (not of own manufacture) .....	...	...	20,609	44,965	20,609	44,965
6. Materials, supplies, etc. ....	84,632	102,780	307	339	84,939	103,119
7. Fuel and electricity .....	2,167	2,288	...	...	2,167	2,288
8. Gross input (5 + 6 + 7) .....	86,799	105,068	20,916	45,304	107,715	150,372
Value added (3 - 8) .....	42,162	58,936	4,623	6,027	46,785	64,964



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		Adminis- trative and office	Sales and distrib- ution	Total
	Manufacturing		Other								Manufacturing	Other			
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female					
	number										\$'000				
1964															
Newfoundland .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia .....	x	x	-	-	x	x	-	-	x	x	x	-	x	-	x
New Brunswick .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec .....	x	-	-	-	x	x	x	x	x	x	x	-	x	x	x
Ontario .....	1,862	28	-	-	450	125	107	32	2,419	185	9,943	-	4,322	885	15,151
Manitoba .....	x	-	-	-	x	x	-	-	x	x	x	-	x	-	x
Saskatchewan .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alberta .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
British Columbia .....	x	x	-	-	x	-	x	x	x	x	x	-	x	x	x
Yukon and Northwest Terri- tories .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals .....	3,631	29	-	-	781	170	111	34	4,523	233	18,415	-	6,733	950	26,098
1965															
Newfoundland .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia .....	x	x	-	-	x	x	x	x	x	x	x	-	x	x	x
New Brunswick .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec .....	x	-	-	-	x	x	x	x	x	x	x	-	x	x	x
Ontario .....	2,606	25	-	-	494	143	127	33	3,227	201	13,913	-	5,114	1,106	20,132
Manitoba .....	x	x	-	-	x	x	-	-	x	x	x	-	x	-	x
Saskatchewan .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alberta .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
British Columbia .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Yukon and Northwest Terri- tories .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals .....	4,748	26	-	-	866	296	132	34	5,746	256	24,308	-	7,794	1,178	33,179

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 .....	2,678	31	4,570	30
February .....	2,951	31	4,312	28
March .....	2,838	32	5,017	26
April .....	3,033	33	4,991	20
May .....	3,346	22	4,256	21
June .....	3,588	30	4,634	28
July .....	3,961	30	4,509	24
August .....	4,003	29	4,843	25
September .....	3,833	32	4,908	28
October .....	4,611	32	4,902	25
November .....	4,365	28	5,022	24
December .....	4,376	28	5,016	25
Averages .....	3,631	29	4,748	26
Establishments reporting annual averages (small establishments only) .....	-	-	-	-
Average for all establishments .....	3,631	29	4,748	26

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 .....	x	x	—	x	x	x
New Brunswick .....	—	—	—	—	—	—
Quebec .....	x	x	x	x	x	x
Ontario .....	5,563	8,162	890	14,615	1,489	16,084
Manitoba .....	x	—	x	x	—	x
Saskatchewan .....	—	—	—	—	—	—
Alberta .....	—	—	—	—	—	—
British Columbia .....	—	—	—	—	—	—
Yukon and Northwest Territories .....	—	—	—	—	—	—
Totals .....	11,531	18,736	1,472	31,739	2,883	34,622
Closing:						
Newfoundland .....	—	—	—	—	—	—
Prince Edward Island .....	—	—	—	—	—	—
Nova Scotia .....	x	x	—	x	x	x
New Brunswick .....	—	—	—	—	—	—
Quebec .....	x	x	x	x	x	x
Ontario .....	8,011	12,248	2,084	22,343	1,554	23,897
Manitoba .....	x	—	x	x	—	x
Saskatchewan .....	—	—	—	—	—	—
Alberta .....	—	—	—	—	—	—
British Columbia .....	—	—	—	—	—	—
Yukon and Northwest Territories .....	—	—	—	—	—	—
Totals .....	14,390	23,603	2,525	40,518	2,726	43,244

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	18,024	19,722	230
(b) Imported .....	"	524	562	7
Sub-bituminous coal (from Alberta mines only) .....	"	—	—	—
Anthracite coal .....	"	11,229	11,821	124
Lignite coal .....	"	—	—	—
Coke .....	"	—	—	—
Gasoline (including gasoline used in cars and trucks) .....	Imp. gal.	88,019	92,835	29
Fuel oil including kerosene or coal oil .....	"	5,578,911	6,145,649	550
Wood .....	cord	—	—	—
Gas:				
(a) Liquefied petroleum gases .....	Imp. gal.	—	40,557	8
(b) Other manufactured gas .....	M cu. ft.	—	—	—
(c) Natural gas .....	"	261,569	180,160	100
Other fuel .....	...	—	...	—
Electricity purchased .....	kwh.	144,969,184	145,609,719	1,202
Steam purchased .....	...	24	...	37
2. Small establishments not reporting commodity detail:				
Estimate for fuel and electricity .....	...	—	...	—
3. All establishments:				
Total fuel and electricity used .....	...	2,167	...	2,288

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

Description	1964		1965		
	Quantity	Cost	Quantity	Cost	
		\$'000		\$'000	
1. Materials used:					
Iron and steel:					
Pig iron .....	ton	15,911	697	12,480	508
Bars and rods, steel .....	"	6,082	869	11,227	1,614
Wire, steel .....	"	197	112	233	128
Plates, steel .....	"	33,480	4,635	40,199	5,669
Sheets:					
Plain .....	"	13,115	1,723	19,640	2,783
Galvanized .....	"	4,627	760	6,764	1,106
Strip, steel .....	"	771	138	785	125
Structural shapes, steel .....	"	28,764	4,008	28,527	3,931
Alloy steel .....	"	...	115	...	223
Scrap iron and steel .....	ton	135,827 <sup>r</sup>	3,728	152,819	4,321
Castings (rough and semi-finished received from foundry):					
Iron (grey and malleable) .....	"	2,631	1,181	2,701	1,315
Steel .....	"	3,439	2,285	1,597	1,117
Other iron and steel .....	"	...	1,045	...	116
Non-ferrous metals:					
Aluminum:					
Castings .....	lb.	231,082	196	286,241	225
Sheet .....	"	1,781,282	842	562,691	397
Other forms .....	"	339,874	189	1,156,224	559
Brass and bronze .....	"	560,593	356	412,174	298
Copper:					
Sheet .....	"	37,185	20	34,886	19
Wire .....	"	345,974	211	479,113	315
Other forms .....	"	92,445	87	78,518	76
Lead .....	"	38,027	6	78,312	13
Nickel .....	"	19,349	17	28,315	24
Tin .....	"	—	—	—	—
Zinc .....	lb.	55,275	32	89,738	40
Babbitt metal and solder .....	"	9,813	9	6,852	6
Other non-ferrous metals .....	"	—	—	—	—
Ferro-alloys .....	"	...	474	...	399
Other materials and supplies:					
Iron and steel pipe, tubes and fittings .....	"	...	1,488	...	1,663
Paints, oil and varnishes .....	"	...	494	...	718
Wheels .....	"	...	2,476	...	3,353
Springs .....	"	...	462	...	640
Other car and locomotive parts .....	"	...	36,297	...	43,030
Foundry coke .....	ton	4,137	151	4,371	162
Foundry sands (including core and moulding sands) .....	"	9,311	115	8,537	97
Plumbago and graphite .....	lb.	6,209	1	22,591	2
Lumber .....	M bd. ft.	9,975	1,050	15,917	2,873
Firebrick and cupola blocks .....	"	...	186	...	167
Fireclay .....	ton	113	2	953	20
Core oil .....	Imp. gal.	1,971	3	1,026	2
All other materials and components used .....	"	...	13,964	...	19,837
2. Containers and other packaging materials and supplies used .....					
		...	35	...	41
3. Operation, maintenance and repair supplies used (excluding fuel) .....					
		...	4,077	...	4,808
4. Amount paid out to others for work done on materials owned by establishments .....					
		...	99	...	37
Totals .....		...	84,632	...	102,780

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

Description	1964		1965	
	Quantity	Value \$'000	Quantity	Value \$'000
Products:				
Railway cars (standard gauge only): <sup>1</sup>				
Passenger .....	—	—	—	—
Freight:				
Automobile .....	2	2	2	2
Ballast .....	—	—	2	2
Box .....	2	2	2	2
Flat .....	1	2	2	2
Gondola .....	2	2	2	2
Hopper .....	2	2	2	2
Ore .....	2	2	2	2
Refrigerator .....	—	—	2	2
Stock .....	—	—	—	—
Tank .....	2	2	2	2
Other .....	2	2	2	2
Cars, trucks and trailers, narrow gauge (for mines, quarries, etc.) .....	—	—	—	—
Locomotives, small size, for mines, etc., new .....	2	2	—	—
Locomotives, diesel-electric, standard gauge, new .....	2	2	2	2
Railway car and locomotive parts:				
Brakes, brake beams, brake shoes and parts .....	...	2	...	2
All other car and locomotive parts (wheels, springs, etc.) .....	...	22,611	...	21,757
Miscellaneous products:				
Castings, grey iron .....	2	2	2	2
Machinery .....	...	1	...	1,409
Railway track equipment .....	...	716	...	651
Amount received for repair work .....	...	2,159 <sup>f</sup>	...	3,633
All other products .....	...	96,413 <sup>f</sup>	...	129,114
Amount received in payment for work done on materials owned by others .....	...	747	...	1,161
<b>Total value of above items</b> .....	...	<b>122,646</b>	...	<b>157,725</b>
Add value of work done during year on locomotives, cars, etc. which were not completed at year end .....	...	14,619	...	24,249
Deduct value of work done in previous years on locomotives, cars, etc. which were completed during year under review .....	...	(8,572)	...	(18,877)
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity described above .....	...	—	...	(145)
<b>Total net value</b> .....	...	<b>128,693</b>	...	<b>162,951</b>

<sup>1</sup> See Table 14B for "All industry" totals.

<sup>2</sup> Included with "All other products".

TABLE 14. Shipments of Selected Goods of Own Manufacture — All Industries, 1956-65  
(Includes shipments from other industries which manufacture, as a secondary activity, the commodities listed)

A. Railway Spikes

Year	Tonnage	Value \$'000
1956 .....	18,817	3,235
1957 .....	12,358	2,293
1958 .....	13,200	2,625
1959 .....	13,019	2,526
1960 .....	7,072	1,426
1961 .....	8,092	1,590
1962 .....	7,574	1,477
1963 .....	8,177	1,505
1964 .....	8,510	1,875
1965 .....	7,690	1,353



TABLE 14. Shipments of Selected Goods of Own Manufacture - All Industries 1956-65 - Concluded

B. Railway Cars and Locomotives

Year	Standard railway cars		Locomotives	
	Number	Gross value of production	Number	Gross value of production
		\$'000		\$'000
1956	9,221	70,980	488	78,220
1957	10,475	98,665	521	94,417
1958	5,313	64,126	417	75,229
1959	3,585	40,370	375	66,573
1960	2,510	25,396	172	29,189
1961	1,762	19,754	43	4,352
1962	3,449	36,669	29	5,518
1963	2,156	30,135	159	28,668
1964	...	48,075	169	31,964
1965	6,057	110,962	1	1

C. Finished Rail Fastenings

Year	Tie plates			Fish plates or splice bars		
	Quantity made	Factory shipments		Quantity made	Factory shipments	
		Quantity	Value		Quantity	Value
		tons	\$'000		tons	\$'000
1956	88,590	86,592	10,103	18,487	18,675	2,465
1957	78,555	80,575	10,148	17,022	16,793	2,502
1958	56,118	56,189	7,338	14,078	14,088	2,066
1959	70,376	70,351	8,970	14,853	14,818	2,212
1960	36,028	36,108	4,787	11,256	11,133	1,684
1961	44,401	43,022	5,683	7,493	7,736	1,150
1962	53,765	54,554	7,238	10,613	10,624	1,586
1963	50,050	51,781	6,883	13,553	13,476	2,009
1964	1	1	1	1	1	1
1965	1	1	1	1	1	1

<sup>1</sup> Confidential.

List of Establishments classified to this Industry, 1965

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

Name	Location
<b>Nova Scotia:</b>	
Dominion Steel & Coal Corporation Ltd.	Trenton
<b>Quebec:</b>	
Canadian Steel Wheel Ltd.	1900 Dickson St., Montreal
Griffin Steel Foundries Ltd.	St. Hyacinthe
Montreal Locomotive Works Ltd.	1505 Dickson St., Montreal
<b>Ontario:</b>	
Buffalo Brake Beam Company	21 Dunbar Ave., Hamilton
Canada Iron Foundries Limited	St. Thomas
Canadian Westinghouse Co. Ltd.	286 Sanford Ave. North, Hamilton
Fairbanks Morse (Canada) Ltd.	141 Ontario St., Kingston
Fairmont Railway Motors Limited	Montfair Ave., Islington
General Motors Diesel Limited	2021 Oxford St. E., London
National Steel Car Corporation Limited	Kenilworth Ave. North, Hamilton
Sylvester Steel Products Company Limited	Lindsay
<b>Manitoba:</b>	
Griffin Steel Foundries Ltd.	Transcona



# 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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