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# WIRE AND WIRE PRODUCTS MANUFACTURERS 1964

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## WIRE AND WIRE PRODUCTS MANUFACTURERS

1964

For Statistical purposes the industry titled Wire and Wire Products Manufacturers in the revised Standard Industrial Classification covers the operations of establishments primarily engaged in drawing wire from rods and in manufacturing nails, spikes, staples, bolts, nuts, rivets, screws, washers, wire fencing, screening, wire cloth, barbed wire, tire chains, uninsulated wire rope and cable, kitchen wire goods and other wire products. Establishments primarily engaged in manufacturing insulated wire and cable are included in Industry No. 338 - Manufacturers of Electric Wire and Cable.

An analysis of the principal statistics of this industry indicates that the total number of firms included in the industry in 1964 was greater than the 1963 total by twelve firms. The total value of shipments increased by 16.7 per cent, the value of production increased by 17 per cent, the total cost of materials used increased by 16.4 per cent and value added increased by 18 per cent.

The total value of wire and wire products shipped by the firms classified to this industry in 1964 accounted for 94 per cent of total shipments. Some of the other products shipped were rolled steel products, elevator cabs, automotive stampings and assemblies, synthetic fibre and cordage, putty and hand pumps.

### SYMBOLS

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

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

TABLE 1. Principal Statistics, 1961-64

Year and province	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 .....	200	9,099	19,470	40,148	3,062	124,029	220,940	93,197	48	195	12,227	58,484	95,591
1962													
Totals .....	210	9,751	21,020	44,110	3,270	140,388	248,023	106,264	48	175	13,045	63,387	109,080
1963													
Newfoundland .....	1	105	243	533	97	1,581	2,262	521	—	—	131	676	571
Prince Edward Island .....	—												
Nova Scotia .....	1												
New Brunswick .....	2												
Quebec .....	53	3,223	7,161	14,658	1,132	53,335	90,706	36,663	5	20	4,250	21,058	38,390
Ontario .....	122	6,453	13,722	30,286	2,060	93,530	167,364	72,256	26	105	8,581	42,619	73,409
Manitoba .....	5	28	56	86	5	121	286	168	x	x	34	106	166
Saskatchewan .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Alberta .....	7	67	137	284	19	1,302	2,093	792	x	x	92	445	784
British Columbia .....	22	452	914	2,107	158	7,415	14,547	6,957	x	x	655	3,412	7,401
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals .....	213	10,328	22,232	47,954	3,471	157,284	277,258	117,357	35	141	13,743	68,317	120,723
1964													
Newfoundland .....	1	x	x	x	x	x	x	x	—	—	x	x	x
Prince Edward Island .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia .....	2	x	x	x	x	x	x	x	—	—	x	x	x
New Brunswick .....	2	x	x	x	x	x	x	x	—	—	x	x	x
Quebec .....	54	3,435	7,746	16,577	1,217	63,336	106,074	42,544	3	12	4,576	23,929	45,386
Ontario .....	131	7,002	15,319	35,076	2,256	107,824	193,667	85,216	32	128	9,215	48,781	86,813
Manitoba .....	6	x	x	x	x	x	x	x	x	x	x	x	x
Saskatchewan .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Alberta .....	7	83	174	412	21	1,619	2,763	1,118	x	x	111	595	1,088
British Columbia .....	22	524	1,100	2,656	170	8,630	17,183	8,341	x	x	742	4,070	8,991
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals .....	225	11,212	24,720	55,518	2,785	183,533	323,013	138,349	38	151	14,850	78,365	143,475



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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1963													
Under \$10,000 .....	4	—	—	—	1	6	28	22	4	15	—	—	22
\$ 10,000 to \$ 24,999 .....	14	13	27	38	5	89	236	143	11	39	16	49	143
25,000 " 49,999 .....	19	41	82	133	10	254	677	424	7	25	57	202	424
50,000 " 99,999 .....	34	166	341	576	45	961	2,313	1,327	12	58	216	793	1,365
100,000 " 199,999 .....	26	261	524	893	45	1,614	3,674	2,172	1	5	341	1,290	2,257
200,000 " 499,999 .....	39	798	1,732	2,988	176	5,664	12,801	7,100	—	—	1,025	4,336	7,678
500,000 " 999,999 .....	31	1,261	2,749	4,598	255	10,691	21,507	10,950	—	—	1,619	6,785	11,417
1,000,000 " 4,999,999 .....	30	2,573	5,601	12,045	868	34,605	69,389	33,218	—	—	3,663	18,297	34,898
5,000,000 and over .....	16	5,215	11,176	26,682	2,066	103,401	166,633	62,000	—	—	6,806	36,564	62,521
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals .....	213	10,328	22,232	47,954	3,471	157,284	277,258	117,357	35	141	13,743	68,317	120,723
1964													
Under \$10,000 .....	11	6	12	15	1	27	83	55	7	17	7	17	55
\$ 10,000 to \$ 24,999 .....	12	12	24	36	4	76	217	140	11	39	17	51	140
25,000 " 49,999 .....	20	41	82	133	11	282	703	415	10	40	57	194	415
50,000 " 99,999 .....	26	128	258	463	30	754	1,894	1,111	10	55	160	615	1,113
100,000 " 199,999 .....	31	292	595	1,024	54	1,825	4,432	2,611	—	—	378	1,419	2,672
200,000 " 499,999 .....	46	911	1,979	3,571	158	6,726	14,692	8,123	—	—	1,172	5,127	8,911
500,000 " 999,999 .....	28	1,083	2,353	4,152	231	9,223	19,364	9,927	—	—	1,337	5,946	10,564
1,000,000 " 4,999,999 .....	31	2,416	5,368	11,274	819	32,678	63,271	29,931	—	—	3,361	16,889	32,196
5,000,000 and over .....	20	6,323	14,049	34,850	2,477	131,942	218,357	86,037	—	—	8,361	48,107	87,410
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals .....	225	11,212	24,720	53,518	3,785	183,533	323,013	138,349	38	151	14,850	78,365	143,476

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1963													
Under \$10,000 .....	11	3	6	8	3	48	127	76	9	27	4	10	76
\$ 10,000 to \$ 24,999 .....	23	39	79	129	11	313	728	406	13	53	53	188	406
25,000 " 49,999 .....	32	142	289	475	42	841	2,014	1,158	10	49	189	681	1,196
50,000 " 99,999 .....	32	305	617	1,056	50	2,146	4,568	2,377	3	13	387	1,465	2,498
100,000 " 199,999 .....	26	446	954	1,562	115	4,234	7,865	3,830	—	—	572	2,245	4,013
200,000 " 499,999 .....	44	1,681	3,713	6,430	427	15,660	29,857	14,161	—	—	2,093	9,169	14,755
500,000 " 999,999 .....	15	1,014	2,193	4,093	254	10,656	21,602	10,454	—	—	1,343	5,821	11,268
1,000,000 " 4,999,999 .....	27	4,728	10,259	23,950	1,862	86,636	155,519	67,220	—	—	6,589	34,865	68,619
5,000,000 and over .....	3	1,970	4,123	10,250	708	36,749	54,978	17,675	—	—	2,513	13,873	17,892
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals .....	213	10,328	22,232	47,954	3,471	157,284	277,258	117,357	35	141	13,743	68,317	120,723
1964													
Under \$10,000 .....	14	7	14	17	2	44	124	78	11	31	8	19	78
\$ 10,000 to \$ 24,999 .....	27	44	66	141	14	363	832	464	16	59	63	211	463
25,000 " 49,999 .....	19	76	154	268	22	468	1,167	679	9	47	94	354	682
50,000 " 99,999 .....	36	287	578	1,004	55	2,227	4,710	2,483	2	13	377	1,384	2,535
100,000 " 199,999 .....	38	623	1,312	2,283	143	5,405	10,931	5,464	—	—	807	3,383	6,141
200,000 " 499,999 .....	42	1,629	3,600	6,438	311	14,215	28,485	13,870	—	—	2,004	8,903	14,588
500,000 " 999,999 .....	16	1,043	2,318	4,659	343	12,716	23,724	10,931	—	—	1,308	6,244	11,269
1,000,000 " 4,999,999 .....	27	4,301	9,543	22,341	1,435	72,029	141,764	69,517	—	—	6,114	33,524	72,466
5,000,000 and over .....	6	3,202	7,113	18,367	1,458	76,066	111,275	34,864	—	—	4,075	24,342	35,364
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals .....	225	11,212	24,720	55,518	3,785	183,533	323,013	138,349	38	151	14,850	78,365	143,476

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
<b>1963</b>													
Under \$10,000 .....	11	3	6	8	3	48	127	76	9	27	4	10	76
\$ 10,000 to \$ 24,999 .....	23	39	79	129	11	313	728	406	13	53	53	188	406
25,000 " 49,999 .....	30	132	269	437	38	757	1,844	1,073	10	49	174	611	1,084
50,000 " 99,999 .....	32	291	587	1,006	50	2,008	4,319	2,282	3	13	371	1,387	2,309
100,000 " 199,999 .....	25	415	887	1,457	79	3,658	6,950	3,494	-	-	530	2,074	3,648
200,000 " 499,999 .....	45	1,646	3,601	6,233	439	15,611	29,777	13,912	-	-	2,044	8,956	14,339
500,000 " 999,999 .....	15	926	2,052	3,667	222	10,060	19,598	9,319	-	-	1,211	5,131	10,149
1,000,000 " 4,999,999 .....	29	4,906	10,629	24,766	1,920	88,080	158,937	69,120	-	-	6,843	36,088	70,820
5,000,000 and over .....	3	1,970	4,123	10,250	708	36,749	54,978	17,675	-	-	2,513	13,873	17,892
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Totals .....</b>	<b>213</b>	<b>10,328</b>	<b>22,232</b>	<b>47,954</b>	<b>3,471</b>	<b>157,284</b>	<b>277,258</b>	<b>117,357</b>	<b>35</b>	<b>141</b>	<b>13,743</b>	<b>68,317</b>	<b>120,723</b>
<b>1964</b>													
Under \$10,000 .....	14	7	14	17	2	44	124	78	11	31	8	19	78
\$ 10,000 to \$ 24,999 .....	27	44	88	141	14	363	832	464	16	59	63	211	463
25,000 " 49,999 .....	19	76	154	268	22	468	1,167	679	9	47	94	354	682
50,000 " 99,999 .....	35	283	570	986	54	2,055	4,472	2,388	2	13	367	1,337	2,405
100,000 " 199,999 .....	36	606	1,274	2,167	113	4,763	9,876	5,079	-	-	769	3,080	5,356
200,000 " 499,999 .....	42	1,530	3,372	6,033	311	13,278	26,792	13,159	-	-	1,887	8,436	13,872
500,000 " 999,999 .....	18	1,068	2,397	4,695	330	13,435	24,685	11,256	-	-	1,339	6,368	11,886
1,000,000 " 4,999,999 .....	26	3,920	8,698	20,400	1,345	67,847	128,387	60,506	-	-	5,486	30,200	63,163
5,000,000 and over .....	8	3,678	8,154	20,610	1,595	81,279	126,678	44,741	-	-	4,837	28,361	45,570
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Totals .....</b>	<b>225</b>	<b>11,212</b>	<b>24,720</b>	<b>55,518</b>	<b>3,785</b>	<b>183,533</b>	<b>323,013</b>	<b>138,349</b>	<b>38</b>	<b>151</b>	<b>14,850</b>	<b>78,365</b>	<b>143,475</b>

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
<b>1963</b>													
Under 5 employed .....	39	51	103	171	16	529	1,175	644	23	85	69	252	644
5- 14 employed .....	58	356	728	1,309	84	2,910	6,570	3,674	12	57	465	1,939	3,824
15- 49 " .....	56	1,300	2,817	4,843	333	13,183	25,964	12,803	-	-	1,633	6,971	13,307
50- 99 " .....	30	1,735	3,830	7,148	471	20,251	41,031	20,468	-	-	2,200	10,171	21,144
100-199 " .....	12	1,110	2,482	4,649	324	16,455	32,375	15,358	-	-	1,736	8,027	16,750
200-499 " .....	14	3,355	7,115	17,202	1,310	61,005	104,552	42,267	-	-	4,595	24,337	42,719
500 employed and over .....	4	2,421	5,158	12,633	931	42,952	65,591	22,143	-	-	3,025	16,619	22,336
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Totals .....</b>	<b>213</b>	<b>10,328</b>	<b>22,232</b>	<b>47,954</b>	<b>3,471</b>	<b>157,284</b>	<b>277,258</b>	<b>117,357</b>	<b>35</b>	<b>141</b>	<b>13,743</b>	<b>68,317</b>	<b>120,723</b>
<b>1964</b>													
Under 5 employed .....	45	58	116	193	19	576	1,270	685	28	96	82	288	688
5- 14 employed .....	55	341	701	1,326	89	3,521	7,550	3,990	10	55	469	1,974	4,293
15- 49 " .....	63	1,407	3,021	5,466	360	13,889	28,017	14,143	-	-	1,750	7,699	14,831
50- 99 " .....	25	1,350	2,990	5,811	282	16,012	31,182	14,829	-	-	1,749	8,459	15,540
100-199 " .....	19	1,844	4,213	8,394	615	26,758	52,850	25,604	-	-	2,589	12,847	27,653
200-499 " .....	13	3,346	7,318	18,036	1,239	65,269	114,807	49,451	-	-	4,545	25,350	50,431
500 employed and over .....	5	2,866	6,362	16,293	1,181	57,509	87,338	29,646	-	-	3,666	21,747	30,039
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Totals .....</b>	<b>225</b>	<b>11,212</b>	<b>24,720</b>	<b>55,518</b>	<b>3,785</b>	<b>183,533</b>	<b>323,013</b>	<b>138,349</b>	<b>38</b>	<b>151</b>	<b>14,850</b>	<b>78,365</b>	<b>143,475</b>

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

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	
1963													
Individual ownerships .....	27 <sup>r</sup>	71 <sup>r</sup>	142 <sup>r</sup>	234 <sup>r</sup>	18 <sup>r</sup>	361 <sup>r</sup>	968 <sup>r</sup>	613 <sup>r</sup>	27	106	74 <sup>r</sup>	240 <sup>r</sup>	612 <sup>r</sup>
Partnerships .....	4	10	20	28	3	55	153	99	8	36	10	28	99
Incorporated companies .....	182 <sup>r</sup>	10,247 <sup>r</sup>	22,070 <sup>r</sup>	47,691 <sup>r</sup>	3,450 <sup>r</sup>	156,869 <sup>r</sup>	276,138 <sup>r</sup>	116,646 <sup>r</sup>	...	...	13,659 <sup>r</sup>	68,048 <sup>r</sup>	120,012 <sup>r</sup>
Co-operatives .....	-	-	-	-	-	-	-	-	...	...	-	-	-
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals .....	213	10,328	22,232	47,954	3,471	157,284	277,258	117,357	35	141	13,743	68,317	120,723
1964													
Individual ownerships .....	23	52	104	171	13	299	752	443	23	96	55	179	443
Partnerships .....	9	36	72	109	8	230	503	290	15	55	40	131	267
Incorporated companies .....	193	11,124	24,543	55,236	3,763	183,005	321,758	137,615	...	...	14,755	78,055	142,744
Co-operatives .....	-	-	-	-	-	-	-	-	...	...	-	-	-
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals .....	225	11,212	24,720	55,518	3,785	183,533	323,013	138,349	38	151	14,850	78,365	143,475

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

	Manufacturing activity		Non-manufacturing activities		Total activity	
	1963	1964	1963	1964	1963	1964
\$'000						
Output						
1. Shipments and other revenue .....	277,258	323,013	19,485	23,807	296,743	346,820
Inventories—Goods of own manufacture:						
Add closing—Goods in process .....	4,017	5,429	...	...	4,017	5,429
Finished goods .....	28,008	28,513	...	...	28,008	28,513
Deduct opening—Goods in process .....	3,383	4,213	...	...	3,383	4,213
Finished goods .....	27,789	27,075	...	...	27,789	27,075
2. Net inventory change .....	853	2,654	...	...	853	2,654
3. Gross output (1 + 2) .....	278,111	325,667	19,485	23,807	297,596	349,474
Input						
4. Purchases of goods not of own manufacture .....	...	...	15,341	17,973	15,341	17,973
Inventories—Goods not of own manufacture:						
Add opening .....	...	...	3,082	3,100	3,082	3,100
Deduct closing .....	...	...	3,131	3,428	3,131	3,428
5. Cost of goods sold (not of own manufacture) .....	...	...	15,292	17,645	15,292	17,645
6. Materials, supplies, etc. ....	157,284	183,533	827	1,036	158,111	184,569
7. Fuel and electricity .....	3,471	3,785	...	...	3,471	3,785
8. Gross input (5 + 6 + 7) .....	160,755	187,318	16,119	18,661	176,874	205,999
Value added (3 - 8) .....	117,357	138,349	3,366	5,126	120,723	143,475



TABLE 8. Employment and Payroll, 1963 and 1964

Year and province	Employees										Salaries and wages					
	Production and related workers				Adminis- trative and office		Sales and distribution		Total		Production and related workers		Adminis- trative and office	Sales and distri- bution	Total	
	Manufacturing		Other													
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Manufac- turing	Other				
	number										\$'000					
1963																
Newfoundland .....	}															
Prince Edward Island .....																
Nova Scotia .....		105	-	-	-	23	3	-	-	128	3	533	-	144	-	676
New Brunswick .....																
Quebec .....		3,018	205	2	-	584	189	236	16	3,840	410	14,658	6	4,813	1,581	21,056
Ontario .....		5,596	857	18	-	1,173	533	335	69	7,122	1,459	30,286	98	10,066	2,169	42,619
Manitoba .....		28	-	-	-	6	-	-	-	34	-	86	-	20	-	106
Saskatchewan .....		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alberta .....		67	-	-	-	17	5	3	-	87	5	284	-	147	15	445
British Columbia .....		432	20	-	-	86	42	68	7	586	69	2,107	-	829	476	3,412
Yukon and Northwest Terri- tories .....		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals .....		9,246	1,082	20	-	1,889	772	642	92	11,797	1,946	47,954	105	16,018	4,240	68,317
1964																
Newfoundland .....		x	-	-	-	x	x	x	-	x	x	x	-	x	x	x
Prince Edward Island .....		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia .....		x	-	-	-	x	x	x	-	x	x	x	-	x	x	x
New Brunswick .....		x	-	-	-	x	x	x	-	x	x	x	-	x	x	x
Quebec .....		3,236	199	-	-	646	214	259	22	4,141	435	16,577	-	5,577	1,775	23,929
Ontario .....		6,052	950	3	-	1,277	536	328	69	7,660	1,555	35,076	13	11,508	2,184	48,761
Manitoba .....		x	-	-	-	x	x	x	-	x	x	x	-	x	x	x
Saskatchewan .....		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alberta .....		83	-	-	-	19	3	6	-	108	3	412	-	158	25	595
British Columbia .....		495	29	4	-	84	53	70	7	653	89	2,656	20	891	503	4,070
Yukon and Northwest Terri- tories .....		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals .....		10,034	1,178	7	-	2,058	811	664	98	12,763	2,087	55,518	33	18,325	4,489	78,365

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

Month	1963		1964	
	Male	Female	Male	Female
	number			
Establishments reporting monthly detail (large establishments only):				
January .....	8,157	947	8,597	1,054
February .....	8,261	950	8,727	1,083
March .....	8,398	938	8,941	1,119
April .....	8,466	984	9,086	1,097
May .....	8,666	979	9,252	1,110
June .....	8,790	985	9,344	1,117
July .....	8,344	822	9,086	922
August .....	8,447	997	9,360	1,073
September .....	8,726	1,034	9,466	1,116
October .....	8,744	1,053	9,411	1,003
November .....	8,742	1,038	9,505	1,163
December .....	8,684	1,032	9,509	1,143
Averages .....	8,521	982	9,249	1,085
Establishments reporting annual averages (small establishments only)	725	100	785	93
Average for all establishments	9,246	1,082	10,034	1,178

TABLE 10. Inventories, 1964

Province	Manufacturing				Non-manufacturing	Total inventories
	Materials, supplies, etc.	Goods in process	Finished goods of own manufacture	Total	Products or materials purchased for resale	
book value \$'000						
Opening:						
Newfoundland .....	x	x	x	x	x	x
Prince Edward Island .....	—	—	—	—	—	—
Nova Scotia .....	x	x	x	x	x	x
New Brunswick .....	x	x	x	x	x	x
Quebec .....	8,972	682	9,818	19,473	1,427	20,900
Ontario .....	13,335	3,122	15,291	31,748	1,394	33,142
Manitoba .....	x	x	x	x	x	x
Saskatchewan .....	—	—	—	—	—	—
Alberta .....	159	8	58	225	—	225
British Columbia .....	1,863	276	1,495	3,634	245	3,879
Yukon and Northwest Territories .....	—	—	—	—	—	—
Totals .....	24,571	4,213	27,075	55,859	3,100	58,960
Closing:						
Newfoundland .....	x	x	x	x	x	x
Prince Edward Island .....	—	—	—	—	—	—
Nova Scotia .....	x	x	x	x	x	x
New Brunswick .....	x	x	x	x	x	x
Quebec .....	10,779	698	10,826	22,303	1,692	23,996
Ontario .....	15,717	4,312	15,728	35,758	1,355	37,113
Manitoba .....	x	x	x	x	x	x
Saskatchewan .....	—	—	—	—	—	—
Alberta .....	115	5	55	175	—	175
British Columbia .....	2,539	299	1,431	4,269	350	4,619
Yukon and Northwest Territories .....	—	—	—	—	—	—
Totals .....	29,431	5,429	28,513	63,373	3,428	66,801

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

Description	1963		1964	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
1. Large establishments reporting commodity detail:				
Bituminous coal:				
(a) From Canadian mines .....	ton	2,022	—	—
(b) Imported .....	"	4,731	3,815	50
Sub-bituminous coal (from Alberta mines only) .....	"	33	3	—
Anthracite coal .....	"	551	8	8
Lignite coal .....	"	—	—	—
Coke .....	"	84	70	1
Gasoline (including gasoline used in cars and trucks) .....	Imp. gal.	421,519	483,801	183
Fuel oil including kerosene or coal oil .....	"	3,022,107	3,308,371	380
Wood .....	cord	452	504	4
Gas:				
(a) Liquefied petroleum gases .....	Imp. gal.	346,853	338,214	80
(b) Other manufactured gas .....	M cu. ft.	145,321	155,028	30
(c) Natural gas .....	"	1,836,494	2,005,646	1,118
Other fuel .....		...	...	2
Electricity purchased .....	kwh.	176,573,464	204,855,257	1,687
Steam purchased .....		...	...	87
2. Small establishments not reporting commodity detail:				
Estimate for fuel and electricity .....		...	...	156
3. All establishments:				
<b>Total fuel and electricity used .....</b>		<b>3,471</b>	<b>...</b>	<b>3,785</b>

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

Description	1963		1964	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
1. Materials used:				
Iron and steel:				
Bars .....	54,955	7,116	65,453	8,254
Wire rods .....	410,563	54,557	489,170	64,964
Wire:				
Plain .....	132,978	26,994	158,405	31,201
Galvanized .....	38,877	8,189	45,763	10,294
Sheets .....	23,319	3,696	27,210	4,268
Strips .....	3,546	810	9,392	1,678
Pipe and tubing .....	...	1,238	...	1,347
Nail and tack plate .....	2,291,668	142	1,776,655	123
Other iron and steel .....	...	12,867	...	14,431
Stainless steel:				
Wire .....	2,157,745	1,911	2,337,506	2,170
Other forms .....	1,224,046	741	1,759,379	963
Non-ferrous metals:				
Aluminum:				
Castings .....	1,040	1	71,117	34
Sheet .....	157,152	75	56,375	26
Other forms .....	3,117,960	1,532	2,771,266	1,202
Brass and bronze .....	11,493,960	6,745	13,305,853	7,772
Copper:				
Sheet .....	75,795	41	72,987	34
Wire .....	300,398	164	361,182	188
Other forms .....	467,916	182	411,223	151
Lead .....	2,709,993	275	2,419,551	305
Tin .....	13,629	16	21,546	21
Zinc .....	8,986,642	1,123	10,255,387	1,411
All other non-ferrous metals .....	...	746	...	794
Acid, muriatic .....	3,422,773	70	3,703,058	77
Acid, sulphuric, 100% .....	17,178,478	260	19,917,132	296
All other materials and components used <sup>1</sup> .....	...	14,891	...	15,965
2. Containers and other packaging materials and supplies used .....	...	3,437	...	4,161
3. Operating, maintenance and repair supplies used (excluding fuel) .....	...	7,088	...	8,795
4. Amount paid out to others for work done on materials owned by establishments .....	...	2,398	...	2,610
Totals .....	...	157,284	...	183,533

<sup>1</sup> No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. These estimated costs were \$5,025,137 in 1963 and \$5,230,418 in 1964.

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

Description	1963			1964		
	Quantity made	Quantity shipped	Value	Quantity made	Quantity shipped	Value
			\$'000			\$'000
Wires						
(Total production, whether for sale or for further manufacture)						
Iron and steel wires:						
Plain wire (including welding wire but not welding rods) .....	389,137	170,894	32,544	452,160	205,949	41,282
Galvanized wire .....	66,805	55,918	11,825	74,775	65,198	14,664
Other coated wire .....	5,845	4,701	1,576	6,723	5,007	1,838
Barbed wire .....	6,670	5,993	1,005	5,386	6,733	1,042
Cold-rolled flat wire of all sizes, qualities and finishes, including nut steel .....	...	3,351	1,289	...	3,379	1,241
Nails, staples and tacks						
Wire nails, iron and steel (all wire nails, including shoe rivets and other small sizes of wire nails) .....	1,679,574	1,663,180	16,790	1,988,357	2,046,703	20,422
Wire staples, iron and steel, of all kinds .....	23,481	36,628	457	21,602	36,326	524
Tacks, all kinds (all cut and wire tacks, including hob nails, clout nails, trunk nails and other small cut nails, but not cut shingle nails) .....	...	...	3,017	...	...	3,772
Miscellaneous, including thumb tacks, upholstery nails, brass and copper nails, cut nails, aluminum nails and staples for paper stitching .....	...	...	...	...	...	...
Wire fencing and wire netting						
Woven wire farm fence, steel .....	...	13,763	2,934	...	14,404	3,082
Woven wire chain link fabric, steel (including tonnage for industrial fences) .....	...	6,696	1,708	...	8,761	1,806
Steel fence posts .....	...	4,977	735	...	...	...
Steel wire mesh, steel for concrete reinforcement, or purposes other than fencing .....	...	23,558	487	...	23,723	502
Wire cloth:						
Coardriner wire cloth .....	...	...	10,908	...	...	13,879
Other wire cloth, including insect wire screening - Steel, including stainless steel .....	...	...	3,583	...	...	4,457
Non-ferrous metal .....	...	...	988	...	...	1,294
Miscellaneous fencing and netting .....	...	...	720	...	...	1,574



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

Description	1963			1964		
	Quantity made	Quantity shipped	Value	Quantity made	Quantity shipped	Value
			\$'000			\$'000
<b>Wire goods</b>						
Steel wire rope or cable (multiple strand— all types)..... ton	...	25,749	18,465	...	28,388	21,088
Strand (two or more single wires helically wound together, include galvanized and other metallic and plastic coatings) .....	...	11,219	3,814	...	11,017	3,606
Steel wire upholstering springs and constructions .....	...	...	18,633	...	...	19,462
Other steel wire springs (except bed springs).....	...	...	7,877	...	...	9,069
Miscellaneous wire goods (including wire lacing, hairpins, tire braids, wire paper clips, wire guards, welding rods, etc.) .....	...	...	19,238	...	...	20,659
<b>Fasteners and miscellaneous</b>						
Automatic screw machine products .....	...	...	8,940	...	...	9,705
Fasteners (bolts, nuts, rivets, washers, screws, etc.) .....	...	...	44,608	...	...	52,915
All other products .....	...	...	52,152	...	...	60,397
Amount received in payment for work done on materials and products owned by others .....	...	...	667	...	...	296
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above .....	...	...	(497)	...	...	(569)
Net adjustment for establishments receiving progress payments.....	...	...	—	...	...	—
<b>Total adjusted value of shipments and work done .....</b>	...	...	<b>277,258</b>	...	...	<b>323,013</b>

<sup>1</sup> Confidential; included with "Miscellaneous fencing and netting".

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)  
A. Steel Wire, 1960-64

Year	Plain wire	Galvanized wire	Barbed wire	Wire, other coated
<b>1960</b>				
Quantity made..... ton	301,140	52,706	2,916	4,606
Quantity shipped .....	150,371	39,960	2,971	4,236
Value .....	29,354	9,239	550	1,334
<b>1961</b>				
Quantity made..... ton	315,316	56,289	4,244	4,722
Quantity shipped .....	152,913	43,100	4,000	4,044
Value .....	28,507	9,393	732	1,274
<b>1962</b>				
Quantity made..... ton	355,786	64,688	5,740	5,374
Quantity shipped .....	162,336	49,818	5,391	4,422
Value .....	30,448	11,026	943	1,445
<b>1963</b>				
Quantity made..... ton	401,945	70,939	6,972	5,845
Quantity shipped .....	175,112	57,067	6,443	4,701
Value .....	32,544	12,000	1,087	1,576
<b>1964</b>				
Quantity made..... ton	468,214	78,844	5,681	6,899
Quantity shipped .....	214,980	67,914	7,203	5,193
Value .....	42,491	15,275	1,113	1,699

Note: Figures on quantity made include the amounts made and used in subsequent processes in the same plants such as, in the manufacture of nails, galvanized wire, etc.



**TABLE 14. Shipments of Selected Goods of Own Manufacture - All Industries - Concluded**  
**B. Steel Wire Fencing, 1960-64**

Year	Quantity shipped net tons	Value \$'000
<b>1960</b>		
Farm fence.....	12,353	2,768
Lawn fence.....	1,392	414
Chain link fabric.....	7,639	1,889
<b>Totals .....</b>	<b>21,384</b>	<b>5,072</b>
<b>1961</b>		
Farm fence.....	13,906	3,074
Lawn fence.....	1,298	369
Chain link fabric.....	8,725	2,133
<b>Totals .....</b>	<b>23,929</b>	<b>5,576</b>
<b>1962</b>		
Farm fence.....	14,059	3,062
Lawn fence.....	1,640	447
Chain link fabric.....	9,069	2,423
<b>Totals .....</b>	<b>24,768</b>	<b>5,932</b>
<b>1963</b>		
Farm fence.....	13,763	2,934
Lawn fence.....	1,391	425
Chain link fabric.....	10,066	2,979
<b>Totals .....</b>	<b>25,220</b>	<b>6,338</b>
<b>1964</b>		
Farm fence.....	14,404	3,082
Lawn fence.....	1,482	382
Chain link fabric.....	12,799	3,187
<b>Totals .....</b>	<b>28,685</b>	<b>6,651</b>

**C. Nails, Tacks and Staples, 1960-64**

Year	Iron and steel wire staples	Iron and steel wire nails and spikes	Wire and cut tacks of all kinds
	kegs		lbs.
<b>1960</b>			
Quantity shipped.....	24,670	1,238,072	2,102,035
Value..... \$'000	298	12,912	690
<b>1961</b>			
Quantity shipped.....	20,106	1,431,874	1,866,000
Value..... \$'000	247	14,960	730
<b>1962</b>			
Quantity shipped.....	21,776	1,515,047	1,708,000
Value..... \$'000	268	15,437	684
<b>1963</b>			
Quantity shipped.....	36,628	1,699,409	1,820,209
Value..... \$'000	457	17,271	888
<b>1964</b>			
Quantity shipped.....	36,326	2,056,281	1,662,071
Value..... \$'000	524	21,008	618

Note: 1 keg=100 pounds.

**TABLE 14. Shipments of Selected Goods of Own Manufacture—All Industries — Concluded**  
**D. Steel Wire Rope and Cable, 1955-64**

Year	Wire rope and cable <sup>1</sup> (multiple strand all types)		Twisted strand wire (single strand all types inc. plastic coated)		Total value
	Quantity shipped	Value	Quantity shipped	Value	
	tons	\$'000	tons	\$'000	
1955 .....	23,658	14,599	8,018	2,684	17,283
1956 .....	30,006	18,537	10,582	3,952	22,489
1957 .....	28,304	18,906	7,745	2,758	21,664
1958 .....	24,182	16,655	7,536	2,828	19,483
1959 .....	26,109	17,841	8,511	3,084	20,925
1960 .....	25,746	17,423	9,517	3,427	20,850
1961 .....	23,459	15,782	7,773	2,988	18,771
1962 .....	26,518	17,608	9,267	3,150	20,758
1963 .....	25,749	18,465	13,819	4,577	23,042
1964 .....	28,713	21,813	12,867	4,572	26,385

**E. Welded Wire Mesh, 1960-64**

Year	Quantity shipped	Value
	tons	\$'000
1960 .....	39,676	8,126
1961 .....	44,568	8,946
1962 .....	58,876	11,816
1963 .....	64,139	12,945
1964 .....	75,566	15,561

**F. Welding Rods,<sup>2</sup> 1960-64**

	Quantity	Value
	tons	\$'000
1960 .....	19,490	7,342
1961 .....	21,236	9,054
1962 .....	28,039	11,073
1963 .....	25,620	12,230
1964 .....	34,626	14,279

<sup>1</sup> Totals shown under this heading for earlier years (prior to 1961) excluded some tonnages of multiple strand wire not classed as "wire rope" which were reported separately. As of 1961, this category is being interpreted to include all types of multiple strand wire. Totals shown under this heading prior to 1961 have been adjusted to reflect this change in interpretation.

<sup>2</sup> Includes only ferrous type gas and electric welding rod.

**List of Establishments classified to This Industry, 1964**

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

Name	Location
<b>Newfoundland:</b>	
Dawes' Nail and Hardware Ltd.	Bay Roberts
<b>Nova Scotia</b>	
Dosco Steel Ltd.	Sydney
Starr Mfg. Works Ltd.	Prince Albert Rd., Dartmouth
<b>New Brunswick:</b>	
New Brunswick Wire Fence Co. Ltd.	402 Main St., Moncton
Grand Falls Industries Ltd.	Grand Falls
<b>Quebec:</b>	
Air Reduction Canada Ltd.	905 Hodge Street, Montreal 9
Apex Wire Products Ltd.	221 Champlain St., Montreal
Argo Machine Tools Inc.	5605 St-Andre St., Montreal 10
Artistic Wire Works Limited	8185 Henri Julien, Montreal 18
B.D.O. Products	6293 Casgrain, Montreal
Bales Tie Corporation	27A Monk St., Longueuil
Canadian Blank Book Company	8530 Esplanade St., Montreal 14
Christie, George Canada Limited	Trois-Rivières
City Wire & Iron Products Co.	1584 Laurier Ave. E., Montreal
Cogan Wire and Metal Products Div. of Great Lakes Steel Products Ltd.	2245 de la Salle Ave., Montreal 4
D. & B. Wire Work Reg'd	7951 Dante St., Ville St-Michel
Debro Metal Products Ltd.	5410 Ferrier St., Montreal 9
Domlnion Wire Rope Limited	175 St-Joseph St., Lachine
Dosco Steel Ltd.	5870 St. Patrick St., Montreal
Eutectic Welding Alloys Co. of Canada Ltd.	5051 Côte de Liesse Rd., Montreal
Ferro Products Co. Ltd.	10049 London Ave., Montreal North
Formaster Inc.	7528, rue Dante, Ville St-Michel
Foster Springs Limited	Granby
General Spring Co. Ltd.	1885 Darling St., Montreal 4
General Wire Works Ltd.	5539 - 111ème Ave., Rosemont, Montreal
Gerrard Co. Limited	St-Laurent
Heiplex Springs Ltd.	7940 - 54th Ave., Rivières-de-Prairies
Industrial Fasteners Ltd.	Marleville
Industrial Screw Machine Works Ltd.	5445 Pare St., Montreal 9
Industries Pont-Rouge Ltée	Pont-Rouge
Jamor Ltd.	5680 Fullum St., Montreal
Jet Staple Inc.	4691 Papineau, Montreal
Johnson Wire Works Ltd., The	530 Decourcelles St., Montreal 30
Jones Lamp Frame Co.	5549 - 11th Ave., Rosemont, Montreal
L'Air Liquide & Canadian Liquid Air Co. Ltd.	1210 Sherbrooke St. W., Montreal
Laramée Wire Works Ltd.	CP 29 Fort Chambly
Laurentian Wire Products Ltd.	9221 St. Lawrence Blvd., Montreal
Les Produits d'Acier Morco Ltée	Bale Comeau
London Zig Zag Spring Ltd.	2455 Desautels, Montreal 5
Manhattan Wire Works Co. Ltd.	2331 Provencale Lane, Montreal 24
Mercury Wire & Nail Co. Ltd.	St-Hyacinthe
New York Wire Works Ltd.	5555 Notre-Dame E., Montreal
No-Sag Spring Co. Ltd.	297 Taschereau Blvd., Greenfield Park
Nucleonic-Electric Equipment & Development Company	5701 Côte-St-Paul, Montreal
Ontario Wire Works Mfg. Limited	4166, rue Parthenais, Montreal 24
Pan-American Screw Corp. Ltd.	57 Queen St., Montreal
Pennsylvania Wire Products	1977 Grand Trunk, Pointe-St-Charles
Precision Automatique J.R.N. Ltée	2291, rue Louis Veullot, Montreal 5
Sido Limitée	Granby
Signode Canada Ltd.	6705 Upper Lachine Rd., Montreal
Sivaco Wire and Nail Co.	Marleville
Steel Company of Canada Limited, The	Montreal
Steel Company of Canada Limited, The	Lachine
Superior Wire & Paper Products Ltd.	2625 Duchesne, St-Laurent
Triplex Engineering Co. Ltd.	9810 St-Urbain St., Montreal
Wallace Barnes Co. Limited, The	Valois
Webster & Horsfall (Canada) Ltd.	3350 Bellefeuille St. Trois-Rivières
Whitehouse Fastenings Limited	165 Graveline St., St-Laurent
World Wide Staple Co. Inc.	397 Place de Louvain, Montreal 11
<b>Ontario:</b>	
Accumatic Mfg. Co. Ltd.	302 Bridgeland Ave., Toronto 19
Acorn Manufacturing Ltd.	Fort Erie
Aibion Hills Workshop, The	Bolton
Androck Ltd.	Watford
Armour Art Craft	110 Ramee Ave, Toronto 19
Artcraft Shoppe Ltd.	111 Queen St. E., Toronto 1
Argos Mfg. Co.	Stoney Creek
Atlas Nail & Wire Company	Kitchener
Automatic Screw Machine Products Ltd.	55 Brown's Line, Toronto 14
Automatic Staple Mfg. Ltd.	130 Oakland Rd., Downsview
Beaverton Specialties Limited	Beaverton
Bedarco Ltd.	49 Chauncey Ave., Toronto 18
Bennett Wire Products Co.	1948 Mattawa Ave, Cooksville
Bohne Spring Industries Ltd.	1153 Queen St. W., Toronto 3
Hostitch (Toronto) Ltd.	55 Judson St., Toronto 18
Bowin Screw Products Co. (Reg)	104 Fenmar Dr, Weston
Breen Wire Products Ltd.	13 Blackburn St., Toronto 8
Bull Dog Lacer Co. of Canada Ltd.	200 Queen St. N., Hamilton
Burke-Thumm Ltd.	14 Breadalbane St., Toronto 5



List of Establishments classified to This Industry, 1964 - Continued

Name	Location
<b>Ontario - Continued</b>	
Canada Wire Ropes Industries Ltd.	Smiths Falls
Canadian Rockwell Co.	46 Northline Rd., Toronto 16
Canadian Spring Co.	2784 Dundas St. W., Toronto 9
Canadian Wire Specialties Co. Ltd.	107 Tycos Dr., Toronto
Capital Metal Industries Limited	61 Milne Ave., Toronto 13
Capital Wire Cloth Ltd.	Hinton Ave., Ottawa 3
Central Electric Wire Ltd.	Perth
Charlton, J.J. Co.	115 Milvan Drive, Weston
City Wire Works Co.	1082 Queen St. W., Toronto 3
Collison-Goll Ltd.	41 Millwick Dr., Weston
Cooper Bros & Wilson Ltd.	4-6 Kelvin Ave., Toronto 13
Custom Wire Products	37 Yarmouth St., Guelph
Diamond Hard Company Ltd.	99A Coleman Ave., Toronto 13
Doherty Industries Ltd.	371 Ryding Ave., Toronto
Dominion Chain Company Limited	800 Bender Ave., Niagara Falls
Dominion Fasteners Limited	686 Parkdale Ave. N. Hamilton
Dominion Fence & Wire Products Ltd.	3118 Lenworth Dr., Cooksville
Dominion Screw Co. Ltd.	173 McCormack St., Toronto 9
Dominion Tack & Nail Company Limited	Galt
Domora Jobbers	105 Station St., Belleville
Donald Ropes & Wire Cloth Limited	180 King William St., Hamilton
Dosco Steel Ltd.	Etobicoke
Dur-o-Wall Ltd.	789 Woodward Ave., Hamilton
Elgin Springs Ltd.	Cayuga
Federal Bolt & Nut Corp.	55 Browns Line, Toronto 14
Ferrier Wire Goods Company	22 Mulock Ave., Toronto 9
Fitzgerald McAvoy Wire Goods Ltd.	49 Brydon Dr., Rexdale
Florists' Wire Works	364 Broadview Ave., Toronto 8
Foley Screw Machine Products	3801 Dundas St. W. Toronto 9
G.W. Wire Specialties	428 Cannon St. E., Hamilton
Garden City Wire Works Co.	66 Pelham Rd., St. Catharines
General Spring Products Ltd.	60 Ottawa St. S., Kitchener
Gerrard Company Ltd.	140 Hunter St. E., Hamilton
Gibb Manufacturing Co. Ltd.	Port Credit
Globe Spring and Cushion Co. Limited	347 Sorauren Ave., Toronto 3
Greening Industries Ltd.	55 Queen St. N., Hamilton
Greening Industries Ltd.	Midland
Greening Industries Ltd.	Orangeville
Haca Supplies Ltd.	30 Market St., Hamilton
Hamilton Wire Products Company Ltd.	304 Gage Ave. N., Hamilton
Hamond Industries Ltd.	67 Fifteenth St., Toronto 14
Hi-Bek Precision Spring Co.	741 Woodward Ave., Hamilton
Hoskins Alloys of Canada Ltd.	45 Racine Rd., Rexdale
Hyde Spring & Wire (Canada) Ltd.	Brantford
Interlake Steel Products Co. Ltd.	Thorold
Isard-Lefevre Mfg. Co. Ltd.	45 Dickens St., Toronto 8
Kelson Spring Products	108 Brandon Ave. Toronto
Kidessery Mfg. Ltd.	31 Waterloo St., Oshawa
Kitchener Spring Co. Limited	34 Bridgeport Rd., Waterloo
L & M Screw Machine Products Ltd.	66 Milvan Drive, Weston
Largo Manufacturing Co.	152 King St. E., Toronto 2
Lewis Screw & Fittings Ltd.	Galt
Lica Wire Ltd.	115 Barton St. W., Hamilton
Linread Canada Ltd.	24 Hayes Ave., Guelph
Lundy Steel Products Limited	Dunnville
Marcus Spring Co. Ltd.	71 Ossington Ave., Toronto 3
Marshall Industries Ltd.	106 Vulcan Dr., Rexdale
May, Bruce Manufacturing	39 Dussek St., Belleville
Mills Steel Products Ltd.	P.O. Box 83, Station "C", Hamilton
Morrow Screw & Nut Company Limited	Thames St. N., Ingersoll
M-Perial Wire Ltd.	108 Milvan Dr., Weston
Myers Wire Products Ltd.	1786 Mattawa Ave., Cooksville
National Socket Screw Mfg. Co. Ltd.	249 Central Ave., Beamsville
National-Standard Company of Canada Ltd.	Guelph
Niagara Wire Weaving Co. Ltd., The	Robinson St., Niagara Falls
No-Sag Spring Company Limited	Industrial Rd., London
Otomarc Manufactures Ltd.	71 Ossington Ave., Toronto 3
Ovalstrapping Ltd.	151 Birge St., Hamilton
Oxford Precision Products Ltd.	Woodstock
Parmenter & Bulloch Mfg. Co. Ltd.	Gananoque
Pastode Canada Reg'd	251 Nantucket Blvd., Scarborough
Precision Small Parts Ltd.	434 Steeples Ave. W., Willowdale
Premier Spring & Mfg. Co.	Ayr
Prestole Corp. of Canada	20 Racine Rd., Rexdale
Power Fastener Co. Ltd.	284 St. Helene Ave., Toronto 4
Pritchard, E.W. and Sons	99 Torrens Ave., Toronto 6
Ranger Metal Products Ltd.	110 Fountain St. E., Guelph
Rice Wire Products	3077 Danforth Ave., Scarborough
Robertson, P.L. Mfg Co. Ltd.	97 Bronte St., Milton
Rollit Products Limited	Brockville
Root Wire Ltd.	380 Orenda Rd., Bramalea
Sample, J.R.	61 Duke St., Toronto 2
Senco Products (Canada) Ltd.	64 Sheffield St., Toronto 15
Seneca Wire of Canada Ltd.	254 Centre St. E., Richmond Hill
Springco Industries Ltd.	539 King St. W., Toronto 13
Steel Company of Canada Limited, The (Parkdale Works)	Hamilton
Steel Company of Canada Limited, The	Swanton
Steel Company of Canada Limited, The	Brantford
Steel Company of Canada Limited, The	Hamilton
Steel Company of Canada Limited, The	Hamilton
Steel Company of Canada Limited, The (Frost Works)	Hamilton
Steele Bros. (Guelph) Ltd.	47 Johnston St., Guelph



List of Establishments classified to This Industry, 1964 - Concluded

Name	Location
<b>Ontario - Concluded</b>	
Steeles' Wire Springs Limited .....	280 Speedvale Ave. W., Guelph
Superior Wire Works .....	128 Vine Ave., Toronto 9
Tac-Lite Ltd. ....	131 Grand Ave S., Galt
Tamco Limited .....	La Salle
Thomson (Canada) Rivet Co. Ltd. ....	Gananoque
Toronto Screw Machine & Stamping Products Ltd. ....	376 Enford Rd., Richmond Hill
Toronto Wire Works Co. ....	2108 Dundas St. W., Toronto 3
Tyler, W.S. Co. of Canada Ltd., The .....	Kensington Ave. St. Catharines
Vanstone, E.G. & Son Ltd. ....	23 Racine Rd., Rexdale
Wallace Barnes Company Limited, The .....	274 Sherman Ave N., Hamilton
Wallbank, P.J. Mfg. Co. Ltd. ....	Plattsville
Wally's Screw Machines .....	31 King St. E., Burford
Warren Automatics .....	918 High St., Peterborough
West Coast Wire Works Ltd. ....	1101 West Walsh St., Fort William
Wiens Screw Products Ltd. ....	2362 Fairview, Burlington
Willow Mfg. Co. Ltd. ....	21 Sahle St., Toronto 15
Wiresmith Limited .....	44 Chauncey Ave., Toronto 18
Yonge Hanger & Wire Products Ltd. ....	164 Mulock Ave., Toronto 9
Young, G.R. Screw Machine Prod. Ltd. ....	26 Six Points Rd., Toronto 18
Young Spring & Wire Corp. of Canada Ltd. ....	1441 McDougall St., Windsor
Zenith Screw Company Ltd. ....	24 Taber Rd., Rexdale
<b>Manitoba:</b>	
Centennial Steel Products Ltd. ....	2115 Logan Ave. W., Winnipeg
Damascus Steel Products Ltd. ....	Cordite Rd., North Kildonan
Hunter Wire & Steel Prod. Ltd. ....	376 Bertrand, St. Boniface
J.R. Wire & Metal Specialty Ltd. ....	Alkins & Highland, Old Kildonan
Regional Products Company .....	455 Provencher Ave., St. Boniface
Scott Screen Wire Co. Ltd. ....	755 Tache Ave., St. Boniface
<b>Alberta:</b>	
Alberta Wire Works Ltd. ....	6904-103rd. St., Edmonton
Atlas TV and Supply Co. Ltd. ....	1017-10th. Ave. S.W., Calgary
Drader, C.H. Manufacturing Ltd. ....	Box 35A R.R. #2, South Edmonton
Gates Forming Accessories Ltd. ....	6910 Farrell Rd., Calgary
Irving Industries Ltd. ....	125-66th Ave. S.W., Calgary
Soldan Fence & Metal Products Co. Ltd. ....	9935-75th Ave., Edmonton
Soroy Upholstery Springs .....	9938-70th Ave., Edmonton
<b>British Columbia:</b>	
Advance Wire Products Ltd. ....	1328 West 73rd Ave., Vancouver 19
B.C. Diesel Service Engineers Ltd. ....	1356 Francis St., Vancouver 6
B & R Wire Cage Specialties Ltd. ....	17633 Melrose Ave., Cloverdale
B. R. C. Weldmesh (1960) Ltd. ....	3157 Grandview Hwy., Vancouver 12
British Ropes Canadian Factory (1963) Ltd. ....	3185 Grandview Highway, Vancouver 12
Butler, E.A. Mfg. & Eng. Limited .....	Abbotsford
Capital Wire Cloth Western Limited .....	New Westminster
Chamberlain Spring Co. Ltd. ....	1849 Franklin St., Vancouver 6
Columbia Mfg. Co. Ltd. ....	2055 Dundas St., Vancouver 6
Gerrard Co. Limited .....	Vancouver
Hardfacing Alloys (Canada) Ltd. ....	2615 Columbia St., Vancouver 10
Industrial Wire & Iron Works .....	1435 Powell St., Vancouver 6
Justesen, E.P. Mfg. Co. ....	4004 Grant St., North Burnaby
Morrison Steel & Wire Co. Ltd. ....	Granville Island, Vancouver 9
No-Sag Spring Co. Ltd. ....	Richmond
Staymet Alloys Limited .....	Pitt Meadows
West Coast Wire Works Limited .....	8383 Manitoba St., Vancouver 15
Western Canada Steel Ltd. ....	450 S. E. Marine Dr., Vancouver 15
Western Metal Products Ltd. ....	1000 Parker St., Vancouver 6
Western Wire Products Ltd. ....	7170 Antrim Ave., Burnaby 1
Western Wirecraft Div. George Wertman Ltd. ....	1101 Union St., Vancouver 6
Wright's Canadian Ropes Limited .....	350 South East Marine Drive, Vancouver

# CONCEPTS AND DEFINITIONS

## Census of Manufactures

### General

The Census of Manufactures is an annual mail survey covering Canada's Manufacturing Industries. It is based on the Standard Classification of Industries and full details concerning the system may be found in the Standard Industrial Classification manual, Catalogue No. 12-501 which is available from the Queen's Printer or the Dominion Bureau of Statistics. In summary, the Classification as it relates to the manufacturing industries provides for a breakdown into 140 industries arranged in 20 major industry groups. Of the 140 (3 digit) industries, 18 are further broken down into 56 (4 digit) sub classes. At the Canada level, principal statistics are collected and compiled for 176 separate industries. They cannot all be published separately by province, however, because of the confidential nature of the data in certain provinces.

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

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

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

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

### Establishment

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

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

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

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



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

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

#### **Head Offices and Auxiliary Units**

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

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

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

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

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

#### **Employees**

##### **(a) Production and related workers – Manufacturing activities**

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

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

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



### **(c) Administrative and office employees**

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

### **(d) Sales and distribution workers**

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

### **(e) Total Employees**

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

### **Working Owners or Partners**

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

### **Salaries and Wages**

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

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

### **Fuel and Electricity**

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

### **Materials and Supplies**

#### **(a) Manufacturing activities**

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

#### **(b) Non-manufacturing activities**

##### **1. Purchases for re-sale as such**

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

##### **2. Other materials and supplies used**

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



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

## **Shipments**

### **(a) General**

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

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

### **(b) Shipments of goods of own manufacture**

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

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

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

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

### **(c) Shipments of goods not of own manufacture**

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

### **(d) Other revenue**

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

## **Inventories**

### **(a) Manufacturing activities**

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

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

**(b) Non-manufacturing activities**

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

**Value Added**

**(a) By manufacturing activities**

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

**(b) By non-manufacturing activities**

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

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

**(c) By Total activities**

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



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