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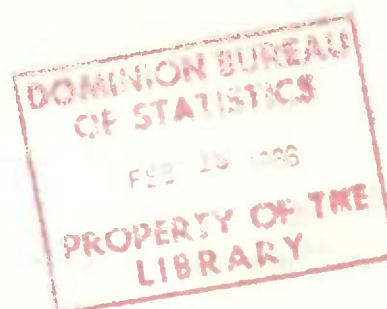
ANNUAL



MISCELLANEOUS METAL FABRICATING INDUSTRIES

1963

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PUBLICATIONS

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MISCELLANEOUS METAL FABRICATING INDUSTRIES

1963

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

For statistical purposes the industry titled Miscellaneous Metal Fabricating Industries in the revised Standard Industrial Classification covers the operations of establishments primarily engaged in manufacturing metal products not elsewhere classified, such as weather stripping, guns, collapsible tubes, machinery fittings, plumber's goods (including enamelled plumbing fixtures), safes and vaults, and forgings such as chains, (except tire chains, see Industry No. 305—Wire and Wire Products Manufacturers), anchors and axles. Also included are establishments primarily engaged in fabricating bars and rods for reinforcing concrete.

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 A. Principal Statistics classified by Province, 1962 and 1963

Year and province	Estab-lish-ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec-tricity	Cost of materials and supplies	Value of shipments of goods of own manu-facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
No.		'000			\$'000				\$'000			\$'000	
1961													
Totals	331	10,978	22,680	43,993	4,006	95,269	218,745	118,023	94	368	15,249	66,442	122,839
1962													
Newfoundland	1	641	1,379	2,468	368	4,730	9,815	5,240	-	-	785	3,243	5,226
Prince Edward Island	-												
Nova Scotia	2												
New Brunswick	2												
Quebec	56	1,947	4,186	8,023	575	14,301	35,841	21,044	15	50	2,868	12,438	21,839
Ontario	215	8,222	17,000	34,220	3,128	78,512	175,916	96,723	55	245	11,278	50,673	99,282
Manitoba	12	350	738	1,490	110	4,735	9,138	4,250	12	47	519	2,428	4,383
Saskatchewan	6	81	127	244	24	785	1,642	825	x	x	118	491	883
Alberta	8	157	311	536	29	823	2,274	1,381	x	x	190	671	1,415
British Columbia	36	383	671	1,569	154	4,436	8,913	4,213	x	x	525	2,433	4,452
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	338	11,781	24,413	48,550	4,389	108,320	243,538	133,675	88	362	16,283	72,377	137,479
1963													
Newfoundland	1	645	1,418	2,626	348	4,830	10,612	5,223	-	-	804	3,441	5,495
Prince Edward Island	-												
Nova Scotia	2												
New Brunswick	2												
Quebec	56	1,999	4,394	8,567	582	14,421	37,032	22,520	12	43	2,773	13,189	23,774
Ontario	216	8,708	18,324	37,380	3,336	91,118	193,755	100,498	57	258	11,564	53,877	104,160
Manitoba	12	428	894	1,812	113	6,842	12,162	6,668	11	32	596	2,752	7,008
Saskatchewan	6	77	172	338	27	992	1,619	660	x	x	110	549	1,091
Alberta	11	143	286	548	28	931	2,141	1,216	x	x	180	701	1,297
British Columbia	37	469	918	1,941	138	3,899	7,821	4,211	x	x	598	2,701	4,429
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	343	12,469	26,407	53,212	4,569	123,032	265,142	141,196	89	372	16,627	77,209	147,255

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
No.		'000			\$'000				\$'000		\$'000		
1962													
Under \$10,000	15	5	8	13	4	30	105	66	13	36	7	17	79
\$ 10,000 to \$ 24,999	34	28	50	90	15	200	575	361	27	90	44	137	371
25,000 "	34	72	143	253	24	410	1,197	765	20	84	104	357	774
50,000 "	42	180	355	665	60	1,193	2,981	1,725	20	98	260	961	1,800
100,000 "	52	424	880	1,523	153	2,961	7,430	4,464	5	23	626	2,514	4,871
200,000 "	61	954	1,901	3,566	291	10,322	21,251	10,711	1	5	1,342	5,676	11,380
500,000 "	35	1,578	3,282	5,658	504	11,695	25,214	13,478	-	-	2,053	8,387	13,810
1,000,000 "	57	5,308	11,165	21,738	1,961	59,998	119,418	58,996	2	25	7,453	32,809	60,917
5,000,000 and over	8	3,232	6,629	15,044	1,377	21,510	65,367	43,108	-	-	4,394	21,511	43,476
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	338	11,781	24,413	48,550	4,389	108,320	243,538	133,675	88	362	16,283	72,377	137,479
1963													
Under \$10,000	14	6	11	11	2	28	87	51	11	22	7	14	51
\$ 10,000 to \$ 24,999	30	38	77	112	5	183	527	340	24	92	49	148	355
25,000 "	34	83	168	270	27	457	1,199	715	21	93	116	372	757
50,000 "	42	203	407	740	66	1,182	2,917	1,715	22	98	276	1,073	1,942
100,000 "	59	529	1,095	1,987	165	3,596	8,524	4,802	8	37	719	2,923	5,098
200,000 "	55	909	1,860	3,346	229	8,113	17,370	9,281	1	6	1,210	5,249	10,529
500,000 "	43	1,320	2,839	5,286	515	15,595	30,731	14,829	-	-	1,771	8,041	15,072
1,000,000 "	57	5,725	12,282	23,883	2,162	65,169	125,849	59,585	2	25	7,715	35,022	62,715
5,000,000 and over	9	3,656	7,667	17,577	1,398	28,709	77,937	49,878	-	-	4,764	24,368	50,736
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	343	12,469	26,407	53,212	4,569	123,032	265,142	141,196	89	372	16,627	77,209	147,255

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
No.		'000			\$'000				\$'000		\$'000		
1962													
Under \$10,000	32	12	19	35	11	140	351	188	26	74	19	58	208
\$ 10,000 to \$ 24,999	44	75	148	265	25	606	1,387	759	28	116	111	381	760
25,000 "	39	152	285	554	54	1,052	2,546	1,354	19	88	227	870	1,652
50,000 "	60	459	954	1,629	183	4,873	9,435	4,484	12	53	696	2,761	4,940
100,000 "	47	643	1,284	2,377	156	6,585	15,581	6,959	1	5	898	3,721	7,261
200,000 "	51	1,661	3,448	6,405	592	22,047	38,188	16,108	2	25	2,268	9,853	16,546
500,000 "	37	2,405	5,065	9,478	888	29,386	55,923	26,353	-	-	3,301	14,530	27,736
1,000,000 "	25	4,675	9,675	20,020	1,897	36,588	90,413	52,863	-	-	6,500	29,764	53,467
5,000,000 and over	3	1,699	3,535	7,788	584	7,042	31,715	24,607	-	-	2,263	10,441	24,908
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	338	11,781	24,413	48,550	4,389	108,320	243,538	133,675	88	362	16,283	72,377	137,479
1963													
Under \$10,000	25	20	39	49	3	120	270	140	17	41	26	65	169
\$ 10,000 to \$ 24,999	47	93	192	300	27	501	1,305	792	34	151	126	421	894
25,000 "	43	173	352	622	56	1,581	3,123	1,502	28	120	240	897	1,628
50,000 "	56	461	946	1,759	158	4,073	8,226	4,038	7	28	641	2,589	4,333
100,000 "	49	713	1,454	2,491	176	5,930	12,754	6,729	1	6	942	3,850	7,383
200,000 "	56	1,514	3,242	6,216	479	20,487	37,806	17,077	2	25	2,025	9,435	18,096
500,000 "	36	2,760	5,956	11,202	1,168	33,182	59,581	26,200	-	-	3,678	16,941	27,416
1,000,000 "	27	4,368	9,218	18,895	1,444	37,736	92,112	54,823	-	-	6,149	28,482	57,079
5,000,000 and over	4	2,367	5,007	11,677	1,058	19,423	49,965	29,895	-	-	2,800	14,529	30,258
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	343	12,469	26,407	53,212	4,569	123,032	265,142	141,196	89	372	16,627	77,209	147,255

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

Size group	Estab-lish-ments	Manufacturing activity							Total activity				Total value added
		Production and related workers			Cost of fuel and elec-tricity	Cost of materials and supplies	Value of shipments of goods of own manu-facture	Value added	Working owners and partners		Total employees		
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
	No.	'000			'000				'000		'000		
1962													
Under \$10,000	29	10	16	28	9	126	314	167	23	62	17	46	169
\$ 10,000 to \$ 24,999	47	77	151	271	27	620	1,424	780	31	129	113	393	800
25,000 "	37	131	247	462	43	854	2,170	1,272	19	88	189	666	1,311
50,000 "	54	399	837	1,440	168	4,063	8,114	3,912	12	53	563	2,186	3,973
100,000 "	53	714	1,410	2,604	187	7,436	14,941	7,477	1	5	1,036	4,255	8,003
200,000 "	52	1,614	3,376	6,289	576	21,144	36,968	15,766	2	25	2,226	9,716	16,611
500,000 "	36	2,270	4,770	8,858	837	28,926	53,899	25,078	-	-	2,966	12,953	25,526
1,000,000 "	27	4,867	10,071	20,810	1,959	38,109	93,993	54,615	-	-	8,910	31,722	56,179
5,000,000 and over	3	1,699	3,535	7,788	584	7,042	31,715	24,607	-	-	2,263	10,441	24,908
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	338	11,781	24,413	48,550	4,389	108,320	243,538	133,675	88	362	16,283	72,377	137,479
1963													
Under \$10,000	22	14	27	33	2	74	196	114	17	41	17	40	115
\$ 10,000 to \$ 24,999	46	81	165	250	26	479	1,236	738	32	143	110	350	785
25,000 "	44	170	345	593	55	1,577	3,110	1,484	30	129	234	830	1,531
50,000 "	56	445	920	1,720	156	4,425	8,487	3,971	7	28	608	2,459	4,110
100,000 "	45	656	1,338	2,304	161	4,718	10,620	5,819	1	6	865	3,462	6,292
200,000 "	62	1,566	3,341	6,366	467	21,350	39,539	17,932	2	25	2,110	9,790	19,039
500,000 "	38	2,717	5,853	10,955	1,145	32,361	57,979	25,432	-	-	3,512	15,694	26,472
1,000,000 "	28	4,453	9,410	19,315	1,481	36,624	94,010	55,812	-	-	6,371	30,036	58,674
5,000,000 and over	4	2,367	5,007	11,677	1,058	19,423	49,965	29,895	-	-	2,800	14,529	30,258
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	343	12,469	26,407	53,212	4,569	123,032	265,142	141,196	89	372	16,627	77,209	147,255

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

Size group	Estab-lish-ments	Manufacturing activity							Total activity				Total value added
		Production and related workers			Cost of fuel and elec-tricity	Cost of materials and supplies	Value of shipments of goods of own manu-facture	Value added	Working owners and partners		Total employees		
		Number	Man-bours paid	Wages					Number	With-drawals	Number	Salaries and wages	
	No.	'000			'000				'000		'000		
1962													
Under 5 employed	82	81	156	276	38	965	2,260	1,242	60	217	120	419	1,283
5- 14 employed	94	545	1,114	2,027	231	5,448	12,319	6,768	25	115	789	3,238	6,954
15- 49 "	86	1,690	3,458	6,584	538	23,207	42,903	19,527	1	5	2,364	10,240	20,779
50- 99 "	33	1,610	3,353	6,110	493	24,604	43,558	18,974	2	25	2,214	9,631	19,482
100-199 "	24	2,377	4,990	9,554	1,062	20,828	43,641	23,091	-	-	3,209	13,644	23,469
200-499 "	15	3,303	6,934	13,914	1,035	19,617	55,391	34,580	-	-	4,781	21,918	35,736
500 employed and over	4	2,175	4,408	10,085	992	13,653	43,465	29,494	-	-	2,806	13,287	29,776
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	338	11,781	24,413	48,550	4,389	108,320	243,538	133,675	88	362	16,283	72,377	137,479
1963													
Under 5 employed	83	118	240	386	45	1,207	2,833	1,593	52	199	186	582	1,845
5- 14 employed	99	627	1,291	2,359	239	7,396	15,477	8,029	31	133	873	3,589	8,498
15- 49 "	86	1,794	3,750	6,983	551	22,593	42,418	19,492	6	39	2,397	10,529	20,622
50- 99 "	29	1,490	3,263	6,117	477	23,900	42,133	18,338	-	-	2,006	9,308	19,324
100-199 "	26	2,573	5,524	10,764	1,116	25,737	52,493	26,257	-	-	3,391	15,053	26,790
200-499 "	16	3,500	7,332	14,926	1,083	22,775	59,823	37,591	-	-	4,994	23,619	40,118
500 employed and over	4	2,367	5,007	11,677	1,058	19,423	49,965	29,895	-	-	2,800	14,529	30,258
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	343	12,469	26,407	53,212	4,569	123,032	265,142	141,196	89	372	16,627	77,209	147,255

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

Type of organization	Estab-lish-ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec-tricity	Cost of materials and supplies	Value of shipments of goods of own manu-facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
No.		'000			'000				'000		'000		
1962													
Individual ownerships	46	97	199	344	28	601	1,553	935	48	184	107	384	976
Partnerships	21	97	196	312	35	972	1,988	978	40	177	109	363	989
Incorporated companies	271	11,587	24,017	47,893	4,326	106,747	239,997	131,763	-	-	16,067	71,630	135,515
Cooperatives	-	-	-	-	-	-	-	-	-	-	-	-	-
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	338	11,781	24,413	48,550	4,389	108,320	243,538	133,675	88	362	16,283	72,377	137,479
1963													
Individual ownerships	44	128	257	406	28	899	1,974	1,058	48	194	137	427	1,057
Partnerships	18	84	199	301	38	992	1,896	871	41	178	96	377	891
Incorporated companies	281	12,257	25,951	52,505	4,504	121,142	261,272	139,267	-	-	16,394	76,405	145,307
Cooperatives	-	-	-	-	-	-	-	-	-	-	-	-	-
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	343	12,469	26,407	53,212	4,569	123,032	265,142	141,196	89	372	16,627	77,209	147,255

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

	Manufacturing activity		Non-manufacturing activities		Total activity	
	1962	1963	1962	1963	1962	1963
\$'000						
Output						
1. Shipments and other revenue	243,538	265,142	25,341	26,005	268,879	291,147
Inventories - Goods of own manufacture:						
Add closing - Goods in process	16,774	19,328	...	...	16,774	19,328
Finished goods	19,092	18,940	...	...	19,092	18,940
Less opening - Goods in process	15,386	16,341	...	...	15,386	16,341
Finished goods	17,634	18,271	...	...	17,634	18,271
2. Net inventory change	2,846	3,656	...	...	2,846	3,656
3. Gross output (1+2)	246,364	268,798	25,341	26,005	271,725	294,803
Input						
4. Purchases of goods not of own manufacture .....	...	...	20,878	19,227	20,878	19,227
Inventories - Goods not of own manufacture:						
Add opening .....	...	...	4,277	4,184	4,277	4,184
Less closing .....	...	...	4,731	4,648	4,731	4,648
5. Cost of goods sold (not of own manufacture) .....	...	...	20,424	18,763	20,424	18,763
6. Materials, supplies, components and semi-processed goods	108,320	123,032	1,113	1,182	109,433	124,214
7. Fuel and electricity	4,389	4,569	...	...	4,389	4,569
8. Gross input (5+6+7)	112,709	127,601	21,537	19,945	134,246	147,546
Census value added (3-8)	133,675	141,196	3,804	6,060	137,479	147,255

TABLE 3. Employment and Payroll, 1962 and 1963

Year and province	Employees										Salaries and wages				
	Production and related workers				Adminis- trative and office		Sales and distribution		Total employees		Production and related workers		Admin- istrative and office	Sales and distri- bution	Total salaries and wages
	Manufacturing		Other		Male	Female	Male	Female	Male	Female	Manufacturing	Other			
	Male	Female	Male	Female											
	number										\$'000				
1962															
Newfoundland															
Prince Edward Island															
Nova Scotia	622	19	-	-	84	30	19	11	725	60	2,468	-	595	180	3,243
New Brunswick															
Quebec	1,833	114	3	-	489	199	184	46	2,509	359	8,023	15	3,456	944	12,438
Ontario	7,272	950	15	1	1,682	668	572	118	9,541	1,737	34,220	36	12,530	3,888	50,673
Manitoba	344	6	1	-	129	28	11	-	485	34	1,490	1	850	87	2,428
Saskatchewan	76	5	3	-	25	8	1	-	105	13	244	8	234	4	491
Alberta	157	-	1	-	27	5	-	-	185	5	536	4	132	-	671
British Columbia	376	7	-	-	97	34	11	-	484	41	1,569	-	774	90	2,433
Yukon and Northwest Terri- tories	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	10,680	1,101	23	1	2,533	972	798	175	14,034	2,249	48,550	64	18,571	5,192	72,377
1963															
Newfoundland															
Prince Edward Island															
Nova Scotia	626	19	-	-	97	30	20	12	743	61	2,626	-	613	202	3,441
New Brunswick															
Quebec	1,632	167	-	1	454	174	110	35	2,396	377	8,567	1	3,749	872	13,189
Ontario	7,675	1,033	1	1	1,568	654	536	96	9,780	1,784	37,380	4	12,681	3,812	53,877
Manitoba	422	6	-	-	127	29	14	-	563	35	1,812	-	850	90	2,752
Saskatchewan	77	-	-	-	22	8	3	-	102	8	338	-	196	15	549
Alberta	143	-	1	-	30	6	-	-	174	6	548	4	149	-	701
British Columbia	463	6	-	-	92	33	4	-	559	39	1,941	-	738	23	2,701
Yukon and Northwest Terri- tories	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	11,238	1,231	2	2	2,390	934	687	143	14,317	2,310	53,212	9	18,976	5,012	77,209

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

Month	Establishments reporting monthly detail			
	1962		1963	
	Male	Female	Male	Female
	number			
January	9,205	1,022	9,568	1,147
February	9,399	987	9,676	1,145
March	9,460	1,015	9,840	1,156
April	9,549	1,052	9,957	1,148
May	9,822	1,062	10,080	1,165
June	9,975	1,088	10,381	1,177
July	9,819	1,069	10,346	1,228
August	10,002	1,127	10,356	1,161
September	9,926	1,123	10,556	1,200
October	9,845	1,071	10,371	1,171
November	9,610	1,058	10,316	1,144
December	9,274	1,013	10,287	1,119
Average for establishments reporting monthly detail (collected only for large establishments) ..	9,702	1,059	10,145	1,161
Average for small establishments (only annual averages collected)	978	42	1,093	70
Average for all establishments	10,680	1,101	11,238	1,231

TABLE 4. Industry Inventories, 1963

Province	Manufacturing				Non-manufacturing	Total inventories
	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total manufacturing	Products or materials purchased for resale	
book value \$'000						
Opening:						
Newfoundland	}	1, 102	1, 332	750	3, 184	45
Prince Edward Island						
Nova Scotia						
New Brunswick						
Quebec	2, 929	3, 998	3, 668	10, 596	1, 158	11, 754
Ontario	16, 743	9, 601	13, 566	39, 910	2, 738	42, 648
Manitoba	2, 210	1, 158	93	3, 461	55	3, 516
Saskatchewan	131	61	76	289	106	375
Alberta	101	65	35	202	11	213
British Columbia	912	124	83	1, 119	72	1, 191
Yukon and Northwest Territories	-	-	-	-	-	-
Totals	24, 130	16, 341	18, 271	58, 742	4, 184	62, 926
Closing:						
Newfoundland	}	1, 324	1, 172	698	3, 194	169
Prince Edward Island						
Nova Scotia						
New Brunswick						
Quebec	2, 490	4, 585	3, 571	10, 646	1, 178	11, 824
Ontario	17, 740	10, 175	14, 190	42, 105	3, 054	45, 159
Manitoba	1, 956	2, 789	124	4, 868	52	4, 920
Saskatchewan	155	87	110	353	132	485
Alberta	135	64	72	271	9	280
British Columbia	1, 219	456	175	1, 849	53	1, 902
Yukon and Northwest Territories	-	-	-	-	-	-
Totals	25, 019	19, 328	18, 940	63, 286	4, 648	67, 934

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

Description	1962		1963		
	Quantity	Cost	Quantity	Cost	
		\$'000		\$'000	
1. Large establishments which reported commodity detail:					
Bituminous coal:					
(a) From Canadian mines	ton	2, 790	47	3, 313	54
(b) Imported	"	21, 400	238	14, 380	171
Sub-bituminous coal (from Alberta mines only)	"	-	-	-	-
Anthracite coal	"	59	1	-	-
Lignite coal	"	367	4	-	-
Coke	"	227	10	205	10
Gasoline (including gasoline used in cars and trucks)	Imp. gal.	534, 033	199	536, 851	202
Fuel oil including kerosene or coal oil	"	8, 754, 684	985	8, 902, 170	1, 021
Wood	cord	68	1	72	1
Gas:					
(a) Liquefied petroleum gases	Imp. gal.	93, 993	24	99, 913	28
(b) Other manufactured gas	M cu.ft.	3, 704	5	1, 084	1
(c) Natural gas	"	1, 275, 387	861	1, 395, 047	1, 015
Other fuel .....		...	-	...	-
Electricity purchased	kwh.	136, 940, 960	1, 654	147, 732, 084	1, 697
Steam purchased .....		...	72	...	67
2. Estimate for small establishments:					
Fuel and electricity .....		...	289	...	304
3. All establishments:					
Total fuel and electricity used .....		...	4, 389	...	4, 569

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

Description	1962		1963		
	Quantity	Cost \$' 000	Quantity	Cost \$' 000	
1. Materials used:					
Castings (rough and semi-finished received from foundry):					
Iron (gray and malleable)	ton	6,159	2,248	7,730	2,314
Steel	"	4,618	2,547	5,618	2,816
Iron:					
Pig iron	"	10,310	785	8,598	660
Steel:					
Bars and rods	"	128,459	16,255	175,778	22,645
Pipe and fittings	"	...	6,162	...	6,058
Plates	ton	30,957	4,099	12,351	2,045
Sheets:					
Black	"	11,435	2,368	11,887	2,297
Galvanized	"	739	143	2,753	525
Strip	"	2,852	684	3,067	863
Structural shapes	"	6,830	1,270	7,235	1,285
Wire	"	6,061	1,001	6,442	1,118
Alloy steel in all forms:					
Stainless:					
Billets, bars and rods	"	...	356	...	486
Other	"	...	4,286	...	4,304
Other alloy and tool steel (including carbon, alloy and high speed steels):					
Billets, bars and rods	"	...	3,537	...	1,616
Other	"	...	990	...	791
Scrap iron and steel:					
Purchased	ton	30,012	1,100	33,413	1,207
Own make (tonnage only)	"	7,453	...	24,261	...
Other iron and steel	"	...	3,014	...	2,502
Ferro-alloys	"	...	110	...	110
Non-ferrous metals:					
Aluminum:					
Castings	lb.	719,296	498	1,385,911	875
Sheet	"	824,645	428	1,017,288	558
Other forms	"	5,384,577	2,581	6,221,560	2,517
Brass and bronze	"	45,331,765	14,565	50,811,154	17,219
Copper:					
Sheet	"	776,413	401	928,390	451
Wire	"	370,900	167	380,648	184
Other forms	"	1,458,614	704	1,887,318	902
Lead	"	3,477,841	380	4,581,401	522
Nickel	"	112,665	112	390,403	455
Tin	"	265,693	201	202,714	237
Zinc	"	2,215,152	464	2,395,845	553
Babbitt metals and solders	"	152,965	115	195,246	133
Other non-ferrous metals	"	...	589	...	81
Paints, oils and varnished	"	...	341	...	379
Foundry coke	ton	8,226	303	8,301	302
Foundry sands	"	27,318	312	28,506	371
Plumbago and graphite	lb.	733,807	30	880,600	36
Lumber	M bd. ft.	1,324	149	1,586	151
Firebrick and cupola blocks	"	...	131	...	133
Fireclay	ton	1,692	77	3,075	89
Core oil	imp. gal.	41,515	45	34,818	51
All other materials and components used ¹	"	...	22,183	...	30,084
2. Containers and other packaging materials and supplies used					
...					
3. Operating, maintenance and repair supplies used (excluding fuel)					
...					
4. Amount paid out to others for work done on materials owned by establishments					
...					
Totals .....		...	108,320	...	123,032

¹ No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. These estimated costs were \$7,029,711, in 1962 and \$8,787,066 in 1963.

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

Description	1962		1963	
	Quantity	Value \$'000	Quantity	Value \$'000
1. Products:				
Agricultural implements .....	...	1,053	...	912
Castings, forgings and related products (including plumbers' brass and valves):				
Cast iron plumbing fixtures .....	...	730	...	760
Gas stops and gas curb stops .....	...	1,194	...	1,064
Hydrants	No. 9,100	1,643	8,329	1,587
Meters, gas	" 116,282	3,788	103,150	3,678
Plumbers' brass fittings (excluding solder fittings - See below) .....	...	17,311	...	18,264
Valves (excluding penstock valves) .....	...	25,727	...	29,030
Grey iron castings, including alloy and malleable .....	...	3,531	...	3,877
Non-ferrous castings, n.e.s. ....	...	3,146	...	2,490
Forgings, n.e.s.:				
Steel .....	...	21,297	...	26,721
Other forgings (non-ferrous, stainless steel, etc.) .....	...	4,633	...	2,594
Castings, forgings and related products, other .....	...	15,231	...	16,121
Architectural and ornamental metal work:				
Aluminium .....	...	383	...	416
Brass and bronze .....	...	9	...	10
Iron and steel .....	...	1,080	...	1,169
Stainless steel .....	...	69	...	141
Fabricated bar joists	ton 110	53	70	27
Fabricated concrete reinforcing bar	" 75,192	11,094	76,697	11,822
Piping, fabricated .....	...	4,653	...	5,290
Platework, fabricated, n.e.s. ....	...	1,418	...	1,021
Tanks .....	...	3,025	...	3,598
Fabricated and structural products, other .....	...	5,345	...	10,038
Hardware:				
Automatic screw machine products .....	...	113	...	234
Products other than automatic screw machine (bolts, nuts, rivets, screws) .....	...	4,144	...	5,109
Hardware, other .....	...	1,396	...	1,818
Heating equipment .....	...	1,629	...	1,628
Machinery .....	...	7,496	...	6,751
Miscellaneous products:				
Chains .....	...	2,000	...	2,552
Collapsible tubes, metal .....	...	3,663	...	4,087
Electro-plating racks .....	...	490	...	445
Fire extinguishers, hand-type .....	...	2,767	...	2,846
Lightning rods and supplies .....	...	307	...	254
Pipe fittings .....	...	8,368	...	7,682
Metal sponges or pads, not impregnated .....	...	849	...	821
Powder metallurgy products .....	...	942	...	924
Sanitary ware .....	...	16,763	...	28,896
Solder-type fittings .....	...	8,112	...	10,763
Spinnings, all metals .....	...	1,085	...	1,364
All other products .....	...	57,908	...	48,740
2. Amount received in payment for work done on materials and products owned by others....	...	820	...	1,121
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above	...	(1,721)	...	(2,072)
Net adjustment for establishments receiving progress payments .....	...	(5)	...	478
Total adjusted value of shipments and work done .....	...	243,538	...	265,142

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

A. Plumbers' Brass Fittings, 1962 and 1963

Product	Value	
	1962	1963
	\$'000	
Bath waste and overflows	854	1,120
Faucets, sink, lavatory and bath, and their combinations	5,742	5,807
Plumbing fixture trim	2,051	2,174
Stops	1,045	1,396
Traps	1,057	1,165
Tub-fillers, showers and combinations of same	1,995	2,164
Toilet tank fittings	1,848	1,667
Other brass plumbing fixtures	1,478	2,549
Totals	16,070	18,042
Solder type fittings	8,407	11,004

B. Hand-type Fire Extinguishers, 1954-63

Year	Value	Year	Value
	\$'000		\$'000
1954	2,140	1959	2,234
1955	2,890	1960	2,876
1956	2,912	1961	2,782
1957	2,649	1962	2,767
1958	2,386	1963	2,846

C. Hydrants, 1957-63

Year	Number	Value
		\$'000
1957	10,193	1,814
1958	12,095	2,163
1959	13,949	2,427
1960	11,298	1,913
1961	14,478	2,446
1962	13,967	2,516
1963	13,143	2,349

D. Valves, 1962 and 1963

Type	Value	
	1962	1963
	\$'000	
Iron body (gate, globe, check, etc.)	10,744	11,016
Steel, including alloy steel (gate, globe, check, etc.)	7,672	10,152
Brass or bronze (gate, globe, check, etc.)	7,372	7,849
Automatic regulating valves	1,072	1,535
Radiator valves (all types)	332	317
Corporation brass (main and curb stops, etc.)	2,023	2,388
Valves, other	1,095	2,084

List of Establishments classified to This Industry, 1963

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

Name	Location
Newfoundland:	
McNamara Industries Ltd.	Box 910, St. John's
Nova Scotia:	
Dominion Steel & Coal Corp. Ltd., Trenton Steel Division	Trenton
Maritime Steel & Foundries, Limited	New Glasgow
New Brunswick:	
McAvity T. & Sons Ltd.	Box 700, Saint John
St. Stephen Steel Company Ltd. (Maritime Steel & Foundry Ltd.)	St. Stephen
Québec:	
Acton Nipple Inc.	Actonvale
Alloy Manufacturing Ltd.	Ville St. Pierre
American Metals Spinning Ltd.	9947 Paris Ave., Montreal N.
Archambault, Ferronnerie Inc.	Farnham
Argo Co., The	716 St. James St. W, Montreal 1
Band T1 Corp.	3600 Industrial Blvd., Montreal
Booth-Coulter Coppersmithing Co. Ltd.	997 Smith St., Montreal
Brass & Bronze Mfg. Co. Ltd.	6725 Park Ave., Montreal
Canadian Bronze Co. Limited	999 DeLorimier Ave., Montreal
Canadian "Cinch" Anchoring Systems Ltd.	2095 Madison Ave., Montreal
Canavan Explosion Venting System Ltd.	2140 Belgrave Ave., Montreal
Crane Limited	620 Dorchester Blvd., Montreal
Croname MacDonald Limited	Waterloo
Crown Welding Co.	Greenfield Park
Cuthbert, W.R., Limited	47 Duke St., Montreal
Desroberts Inc.	2399 Royale, Trois-Rivières
Dominion Hat Block & Die Co.	7060 Alexandra St., Montreal 10
Dominion Joints	Ville St. Michel
Dominion Welding Engineering Co. Ltd.	1000 Bruxelles Ave., Montreal 5
Domtar Chimicaux Ltd.	15 St. Joseph St., Lachine
Domtar Chimicaux Ltd.	Iberville
Economic Weatherstrip	Ville St. Michel
Fayle Coppersmith Works Ltd.	910 Smith St., Montreal
Farris Industries Canada Ltd.	Longueuil
Federal Weatherstrip Inc.	9478 Hamelin Ave., Montreal
Freeman Corporation	Cap-de-la-Madeleine
Gaulin, Athanase	Montmagny
G.D. Engineering Reg'd.	Ville St. Michel
Golden Gate Mfg. Co. Ltd.	361 Youville St., Montreal
Guard-X Reg'd.	5875 Papineau Ave., Montreal
Hard & Soft Metal Works	5780 Boyer St., Montreal
Horizon Metal Products Ltd.	1765 Paré St., Montreal
Industries Couture Ltée	Chicoutimi
Jenkins Bros. Ltd.	170 St. Joseph Blvd., Lachine
Justin Coffre-Fort Ltée	976 St. Paul W., Montreal
Kiddie Walter & Co. of Canada Ltd.	5500 Royal Mount Ave., Montreal
L'Islet Metal Inc.	L'Isletville
Machineries Mercier Ltée	12 St. Laurent, Levis
Marois, Aurel	Montmagny
Mathieu, Ronald	Wickham
Modern Metal Spinning Reg'd.	4249 Frontenac St., Montreal
Montebello Metal Ltd.	Montebello
Munico Ltd.	10660 Racette, Montreal North
Ouellette Messrs. O.J. Inc.	985 St. Dominique St., Montreal 34
Peacock Bros. Ltd.	Ville De La Salle
Piper, Hiram L., Co. Ltd.	555 St. Remi St., Montreal
Regent Brass Ltd.	7399 St. Hubert St., Montreal
Rockwell Mfg. Co. of Canada Ltd.	Box 978, Montreal
Roy, Irene, Ltée	Theftord Mines
Safety Equipment Co. Ltd.	2115 Old Orchard Ave., Montreal
Security Safes Ltd.	4345 Majeau St., Montreal 39
Spinning Craft Co. Ltd.	2126 De La Salle, Montreal
Tritton Enterprises Ltd.	3595 Monselet Blvd., Montreal North
Universa Ltd.	Limoulu
Universal Metal Works Inc.	1450 Provincial St., Quebec
Ville Emard Metal Spinning Reg'd.	5701 Chemin Cote St. Paul, Montreal 20
Ontario:	
Ace Alloys	40 Milford Ave., Toronto
Aerometal Products & Design Ltd.	7 King St. East, Toronto
Aljon Products Ltd.	424 Birchmount Rd., Scarborough
Allied Heat Treat Ltd.	368 Munster Ave., Toronto
Allsteel Rolled Products Ltd.	100 Canadian Rd., Scarborough
Alward, R., & Son	Straffordville
American Standard Prod. (Canada) Ltd.	1201 Dupont St., Toronto
AMF Atomics (Canada) Ltd.	Port Hope
Apex Bolt Products of Canada	28 Milford Ave., Toronto 15
Apex Bronze Co.	Brampton
Armson Iron Works Ltd.	1558 Howard St., Windsor
Astlett, H.A., & Co. (Canada) Ltd.	St. Thomas
Automated Bldg. Comp'n's Inc.	50 Howden Rd., Scarborough
Bernstein, K.	21 Kensington Ave., Toronto
Best Weather Strip Co. Ltd.	R.R. 7 Brantford
B & L Metal Products	Elmira
B & W Heat Treating Ltd.	70 Borden Ave., Kitchener
Bowling Metals	562 Parkdale Ave., Hamilton

List of Establishments classified to This Industry, 1963 - Continued

Name	Location
Ontario - Continued:	
Brass Craft Canada Ltd.	650 Riverside Drive, Windsor
Brem Enterprises	Cooksville
Brighton Valve Company Limited	Brighton
Brooks Mfg. Co. Ltd.	366 Rogers Rd., Toronto
Bryan Chrome Products	Weston
Budd Machine Tool Co. Ltd.	208 Edinborough St., Windsor
Canada Block Co. Ltd.	21 Riordon St., St. Catharines
Canada Valve & Hydrant Co. Ltd.	44 Holme St., Brantford
Canadian Advance Car Mover Co. Ltd.	145 Ross St., Welland
Canadian Arsenals Ltd.	Box 717, Ottawa 4
Canadian Brass Ltd.	Galt
Canadian Coupling & Fittings Ltd.	Simcoe
Canadian Foundries & Forgings Ltd.	Welland
Canadian Foundries & Forgings Ltd.	Welland
Canadian General Filters Ltd.	39 Crockford Blvd., Scarborough
Canadian Heat Treaters Ltd.	300 NewKirk Rd., Richmond Hill
Canadian Meter Co. Ltd.	Milton
Canadian Name Plate Co. Ltd.	Midland
Canadian Pipe & Steel Fabricators	160 Duchess St., Toronto
Canadian Steel Improvement Ltd.	289 Horner Ave., Toronto
Canadian Vac-Hyd. Processing Ltd.	Oakville
Cello Products Ltd.	Galt
Chamberlin Metal Weatherstrip Co. Ltd.	11 Centre St., London
Chemical Valley Fabricating Co. Ltd.	Box 760, Sarnia
Chesley - Sarnes Ltd.	Essex
Chubb Mosler & Taylor Safes Ltd.	Brampton
Columbus McKinnon Ltd.	Ontario St., St. Catharines
Con-A-Vap Limited	518 Pape Ave., Toronto
C. and R. Metal Products Ltd.	1141 Kelly Lake Rd., Sudbury
Crane Canada Ltd.	Port Hope
Crane Canada Ltd.	Stratford
Crane Piping Limited	835 Beach Road, Hamilton
Crawford Fittings (Canada) Ltd.	605 Kent Ave., Niagara Falls
Coulter Copper & Brass Co. Ltd.	44 Coronet Rd., Toronto
Coupeco Limited	Rexdale
Dart Union Co. of Canada Ltd.	8 Vansco Rd., Toronto
Delhi Ornamental Iron Works	Delhi
DeZurik of Canada Ltd.	Galt
Diamond Tool & Horse Shoe Co.	580 Front St. W., Toronto
Disbold of Canada Ltd.	258 Wallace Ave., Toronto
Dillon Mfg. Co.	Box 332, Oshawa
Dodd & Struthers Ltd.	1721 Moy Ave., Windsor
Dominion Brake Shoe Co. Ltd.	256 Portage Road, Niagara Falls
Dominion Forge Ltd.	2480 Seminole St., Windsor
Dominion Lightning Rod Co. Ltd.	Dundas
Dominion Sink Ltd.	Petrolia
Dominion Welding Engineering Co. Ltd.	2805 Dufferin St., Toronto
Domus Engineering Co.	330 Geary Ave., Toronto
East York Metals	51 Comstock Rd., Scarborough
Emberley Enterprises Ltd.	57 Raleigh Ave., Scarborough
Emco Ltd.	1108 Dundas St., London
Express Metal Spinning	6 Phoebe., Toronto
Ferguson Tools Ltd.	8 Ripley Ave., Toronto
Ferrari Ornamental Co.	10 Hafis, Rd., Toronto
Flag Fire Equipment Ltd.	1680 Kildare Rd., Windsor
Flaherty Mfg. Co. Ltd.	76-78 Wellington St.N., Hamilton
Flexonics Corp. of Canada Ltd.	Brampton
Foley Foundry & Machine Co. Ltd.	Belleville
Franklin Metal Products	202 Pelham Rd., St. Catharines
Fyr Fyter Co. of Canada	136 Manitoba Ave., Toronto
Galt Brass Co. Ltd.	Galt
Galt British Forge Ltd.	Galt
Genbearco Limited	370 Olivewood Road, Toronto
General Die & Machine Co. Ltd.	Box 455, Welland
General Fire Extinguisher Corp. (Canada) Ltd.	955 Huron Line, Windsor
General Impact Extrusions Ltd.	191 Evans Ave., Toronto
Gilbert Steel Ltd.	Malton
Glitsch, Fritz W. & Sons (Canada) Ltd.	Uxbridge
Grantham Industries	St. Catharines
Great Lakes Forgings Ltd.	Riverside
Gregory Fasteners Ltd.	Rexdale
Grinnell Co. of Canada Ltd.	427 Lakeshore Blvd. W., Toronto
Guardian Mfg. Ltd.	Brockville
Guelph Engineering Co. Ltd.	10 KingsMill Ave., Guelph
Harjohn Industries Ltd.	St. Catharines
Harris, J. & Son Ltd.	171 Brant St., Hamilton
Hercules Shaft Splice Co.	Stratford
High Precision Brass Ltd.	181 Gerrard St. E., Toronto
Hike Metal Products Ltd.	Wheatley
Hills McCanna Co. (Canada) Ltd.	Summerville
Hose Couplings Ltd.	Simcoe
H. & S. Commercial Heat Treat	Welland
Imperial Plating Rack Co. Ltd.	Oxford St. E., London
Industrial Fabricators	Sarnia
Jensen Fitting Mfg. Ltd.	Summerville
Jesam Products Ltd.	130 Bermondsey Rd., Toronto
Kee Klamp North America Ltd.	43 Gurney Crescent, Toronto
Kerr Piping Limited	Midland
Keystone Valve (Canada) Ltd.	923 Oxford St., Toronto
Kilian Mfg. Corp. (Canada) Ltd.	90 Queen Elizabeth Blvd., Toronto
Kitchen Installations Ltd.	Ajax
Klassen Bronze	New Hamburg

List of Establishments classified to This Industry, 1963 - Continued

Name	Location
Ontario - Continued:	
K.S.M. of Canada Limited	Rexdale
Kuchyt Metal Works	Fort Erie
Kurly Kate (Canada) Ltd.	42 Gladstone Ave., Toronto
Ladish Co. of Canada Ltd.	Park Rd. N., Brantford
Lake Controls Limited	360 Bay St., Toronto
Lauder Brass Ltd.	Weston
Lestel Metals of Canada Ltd.	Guelph
Lewis & Co.	124 Manville Rd., Toronto
Lofthouse Brass Mfg. Co.	Whitby
Lok Form Ltd.	49 Lucy Ave., Scarborough
Luckock, Richard C.	527 Crawford St., Toronto
Magcoa Ltd.	Weston
Magline of Canada Ltd.	Renfrew
Manning Maxwell & Moore of Canada Ltd.	Galt
Metal Bendings & Furniture Ltd.	43 Colville Rd., Toronto
Metal Closures (Canada) Ltd.	1190 Birchmount Rd., Scarborough
Memorial Vase Co.	248 Frederick St., Kitchener
Moore Air Equipment Ltd.	25 Hale St., London
Marcon Custom Metals	Bridgeport
Metal Textile Corp. of Canada Ltd.	126 Catherine St. N., Hamilton
Midland Equipment Co.	251 Raleigh Ave., Scarborough
Millard & Lumb Ltd.	Box 87, Kingston
Millman, Messrs. W.H. & Sons	Rexdale
Misco Fabricators of Canada Ltd.	Welland
Modern Handling Methods Ltd.	Dundas
Moeller Mfg. Co. (Canada) Ltd.	Box 215, Niagara Falls
Morrison, James Brass Mfg. Co. Ltd.	276 King St. W., Toronto
Mount Dennis Welding Limited	1001 Weston Rd., Toronto
Mueller Ltd.	Sarnia
Myatt, E., Co. Ltd.	21 Carlaw Ave., Toronto
National Loose Leaf Devices Ltd.	43 Berial Rd., Toronto
Neosid (Canada) Ltd.	10 Vansco Rd., Toronto
Neptune Meters Ltd.	3526 Lakeshore Blvd. W., Toronto
Niagara Terrazzo Supplies Ltd.	46 Milford Ave., Toronto
Nicol Manufacturing Co.	Rexdale
Northcott Instruments Ltd.	Guelph
Oliver-Woods Metal Spinning Co.	8 Beaconsfield, Toronto
Otaco Limited	Orillia
Parcoll Products Ltd.	Winchester
Parkinson Cowan (Canada) Ltd.	Chatham
Par-Met Industries Ltd.	65 Crosby Ave., Richmond Hill
Peerless Plating Rack Co.	200 Bedford Rd., Toronto
Peninsula Fittings (St. Catharines) Ltd.	221-223 Bunting Rd., St. Catharines
Perth Metal Industries Ltd.	Box 154, Stratford
Phillips, G.E., Ltd.	3293 Dufferin St., Toronto
Phillips Lightning Rod Co. Ltd.	32 Osborne Ave., Toronto
Phoenix Mfg. Co.	Milton
Pinder Bros. Ltd.	2 Otonabee St. W., Willowdale
Pipe Coil Fabricators Ltd.	Don Mills
Powco Steel Products Ltd.	24 Ingrams Drive, Toronto
Preston Heat Treating Corp. Ltd.	Preston
Pyrene Mfg. Co. of Canada Ltd.	91 East Don Roadway, Toronto
Queenston Welding & Mfg. Ltd.	637 Queenston Road, Hamilton
Reinforcing Steel Products Co.	200 New Toronto St., New Toronto
Reliance Steel Fabricators Ltd.	385 Salter Ave., Windsor
Ric-Will Co. of Canada Ltd.	St. Thomas
Roberts, Art. & Son	1021 Barton St., Hamilton
Rockiron Company Limited	R.R.1, Sudbury
Rockwell Mfg. Co.	40 Wellington St., Guelph
Roper Steel Construction Co.	2902 Eglinton E., Scarborough
St. Lawrence Steel & Wire Co. Ltd.	Gananoque
Samuel Steel Strapping Limited	Cooksville
Seeley, J.W. Industries Ltd.	Dundalk
Selck, Walter E. & Co. Canada	53 Tycos Drive, Toronto
Shaw Flexible Tubes Ltd.	Rexdale
Sheepbridge Engineering (Canada) Ltd.	265 Edinburgh, Guelph
Smith Valve Corp. of Canada Ltd.	Cooksville
Superior Concrete Accessories	Rexdale
St. Clair Metal Processing Ltd.	Riverside
Salbrock Mfg.	Pickering
Stanley Manufacturing Co. Ltd.	230 Bartley Drive, Toronto
Star Expansion Industries Ltd.	1061 The Queensway, Toronto
Steel Co. of Canada Ltd.	Gananoque
Sterling Faucet Canada Ltd.	Oakville
Sun Tube of Canada Ltd.	145 Spruce St., Ottawa
Thamesville Metal Products Ltd.	Thamesville
Thermalite, S.D.M., Ltd.	45 Research Rd., Toronto
Tonner, Gordon	134 Oxford St., Richmond Hill
Toronto Copperrsmithing Co. Ltd.	80 Knox Ave., Toronto
Toronto Fitting & Foundry	365 Bering Ave., Toronto
Triangle Metal Prod. Ltd.	618 Vaughan Rd., Toronto
Tubco Lamp Parts Ltd.	47 Railyard Rd., Don Mills
Tube Turns of Canada Ltd.	Ridgetown
Union Metal Mfg. Co. of Canada Ltd.	Brampton
United Flexible Metallic Tubing (Canada) Ltd.	128 Centre St. E., Richmond Hill
Universal Metal Spinning Products	308 Adelaide St., Toronto
Up-Right Scaffolds Ltd.	Oshawa
Victoria Steel Products Ltd.	Riverside
Victory Metal Works	767 Warden Ave., Scarborough
Wallaceburg Ball Chain Mfg. Co.	Wallaceburg
Wallaceburg Brass Limited	Wallaceburg
Wallaceburg-Singer Ltd.	Wallaceburg

List of Establishments classified to This Industry, 1963 - Concluded

Name	Location
Ontario - Concluded:	
Waterloo Spring Co. Ltd.	102 Breithaupt, Kitchener
Welco Precision Weights	181 Cope St., Hamilton
Welland Vale Mfg. Co. Ltd.	Riordan St., St. Catharines
West Brant Apiary Supplies	W. Brantford
Williamson T.D., Canada Ltd.	Brampton
Winchester Western (Canada) Limited	Cobourg
Wolverine Brass Co. Ltd.	918 Palmerston Ave., Toronto
Will, Hart Ltd.	92 Sinnott Road, Scarborough
Woodbine Metal Spinning Co.	1962 Gerrard St. E., Toronto
Yarmouth Fabricators	St. Thomas
Yarnell-Waring Co. of Canada Ltd.	287 Speedvale Ave. W., Guelph
York Metal Spinning & Specialties Ltd.	35 Industrial Rd., Richmond Hill
Zowie Products	12 Ashland Ave., Toronto
Manitoba:	
Alco Equipment Ltd.	996 Pacific Ave., Winnipeg
Canadian Bronze Co. Ltd.	13 Bury St., Winnipeg
Cowin Steel Co. Ltd.	1137 Pacific Ave., Winnipeg
Klassen Bros.	421 Edison Ave., Winnipeg
Krushel L. & Sons	Morden
Made-Well Mfg. Co.	Sifton
Manitoba Bridge & Engineering Works Ltd.	845 Logan Ave., Winnipeg
Mercury Metal Products	590 Pembina Hwy., Winnipeg
Pary Products Ltd.	S.E. Andrews and Jarvis Sts., Winnipeg
Red River Chain	258 Kingsford Ave., Winnipeg
Rosedale Mfg.	348 Lansdowne Ave., Winnipeg
Swan Manufacturing Company	Cor. Ellen and Alexander Sts., Winnipeg
Saskatchewan:	
Acme Industries Ltd.	182 Wall St., Saskatoon
Bridge City Steel Ltd.	Box 341, Saskatoon
East, John, Iron Works Ltd.	121 Ave. C. North, Saskatoon
Fudge's Industries	Moosomin
Regina Iron Works Ltd.	Box 785, Regina
Westcon Forming Products Ltd.	1801 Ontario Ave., Saskatoon
Alberta:	
Alta. Bend Ltd.	12, 230-66th St., Edmonton
Canadian Bronze Co. Ltd.	Calgary
Jacobs Welding Engineering Ltd.	10, 426-95th St., Edmonton
Lethbridge Iron Works Co. Ltd.	Lethbridge
McAvity T. & Sons (Western) Ltd.	Box 1000, Medicine Hat
Scott, S.F. Mfg. Co. Ltd.	766-14th St. S.W., Medicine Hat
Wingspun Copper & Brass Ltd.	4303-17th Ave., Calgary
Wittke Iron Works	2201-15th Ave. S.E., Medicine Hat
Specialty Iron Works	Blackfalds
Gilchrist Engineering (Alberta)	9720-60th Ave., Edmonton
Moffat Engineering Co.	1111-12th St., Calgary
British Columbia:	
Advance Industries Ltd.	2034 W. 12th Ave., Vancouver
Advance Metalpres Products Ltd.	Granville Island, Vancouver
Alumaloc	Vancouver 367 Water St., Vancouver
Art Metal Spinning Co.	Burnaby
Art's Aluminum & Brass Foundry Ltd.	9236 Hudson St., Vancouver
Basco Mfg. Co. Ltd.	Campbell River
Bobble Equipment & Welding Co. Ltd.	1915 Fir St., Vancouver
Brittain Steel Pabs. Ltd.	524 Sharpe St., New Westminster
C. & B. Heat Treating Ltd.	425 W. 6th Ave., Vancouver
Canada Chain & Forge Co. Ltd.	Granville Island, Vancouver
Canadian Norwegian Chain Co. Ltd.	Granville Island
Canadian Valve Engineering Co.	New Westminster
Capilano Metal Products Ltd.	250 Pemberton Ave., North Vancouver
Ellett Copper & Brass Co. Ltd.	92 West 2nd Ave., Vancouver
Firehood Mfrs. Ltd.	401-509 Richards St., Vancouver
Edwards Welding Limited	727 Caledonia Ave., Victoria
Hastings Brass Foundry Ltd.	236 Clark Drive, Vancouver
Kamloops Steel Fabricators Ltd.	Kamloops
Lister Bolt & Chain Works Ltd.	301 West 5th Ave., Vancouver
McBain, A.J., Ltd.	1968 W. Georgia St., Vancouver
McLeod & Norquay Ltd.	2165 W. 10th Ave., Vancouver
Peace River Cable Service	Dawson Creek
McQuat Industries Ltd.	1500 Pemberton Ave., North Vancouver
Metal Distributors Ltd.	North Burnaby
Micon Products Ltd.	Granville Island, Vancouver
Motor Specialty Manufacturers Ltd.	475 Clark Drive, Vancouver
National Shield Weld Limited	456 East 5th Ave., Vancouver
Paceantic Products Ltd.	1329 Pemberton Ave., N. Vancouver
Pacific Aluminum House Ltd.	571 Homer St., Vancouver
Premier Engineering & Iron Works	Burnaby 1
Ruin Bird Sprinkler Mfg. Co. (Canada) Ltd.	44 East Cordova St., Vancouver
Ross & Howard Iron Works Co. Ltd.	Ft. Woodland Drive., Vancouver
Samco Engineering Ltd.	Richmond
Spin Craft Mfg. Co.	1599 Venables St., Vancouver 6
West Coast Metal Products	1205 Glen Drive, Vancouver
Western Corrosion Engineering Ltd.	882 E. Cordova St., Vancouver
Wilfro Mfg. Co. Ltd.	880 Clark Drive, Vancouver 6

CONCEPTS AND DEFINITIONS

Census of Manufactures

General

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

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

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

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

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

Establishment

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

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

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

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

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

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

Head Offices and Auxiliary Units

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

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

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

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

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

Employees

(a) Production and related workers - Manufacturing activity

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

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

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

(c) Administrative and office employees

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

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

(d) Sales and distribution workers

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

(e) Total Employees

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

Working Owners or Partners

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

Salaries and Wages

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

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

Fuel and Electricity

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

Materials and Supplies

(a) Manufacturing activities

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

(b) Non-manufacturing activities

1. Purchases for re-sale as such

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

2. Other materials and supplies used

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

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

Shipments

(a) General

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

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

(b) Shipments of goods of own manufacture

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

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

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

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

(c) Shipments of goods not of own manufacture

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

(d) Other revenue

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

Inventories

(a) Manufacturing activities

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

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

(b) Non-manufacturing activities

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

Value Added

(a) By manufacturing activities

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

(b) By non-manufacturing activities

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

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

(c) By Total activities

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

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