CATALOGUE No. 41-227
ANNUAL

FEB 11 1965





METAL STAMPING, PRESSING AND COATING INDUSTRY

1962

ANNUAL CENSUS OF MANUFACTURES

Published by Authority of
The Minister of Trade and Commerce

DOMINION BUREAU OF STATISTICS

Industry Division

February 1965 6521-811

Price: 50 cents



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.

METAL STAMPING, PRESSING AND COATING INDUSTRY

1962

Data presented in this report under the heading of Metal Stamping, Pressing and Coating Industry 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 Metal Stamping, Pressing and Coating Industry in the revised Standard Industrial Classification covers the operations of establishments primarily engaged in manufacturing sheet metal products such as metal stampings for automobiles and for purposes such as bottle caps, heel caps, metal lath and metal boxes. Also included are establishments primarily engaged in manufacturing pressed metal moducts such as kitchen utensils, hospital and similar utensils and containers. This industry also includes establishments primarily engaged in coating metal and metal products, such as vitreous enamelware, galvanizing and electroplating except plating with precious metals (Industry 382). It also includes establishments primarily engaged in manufacturing tin cans and other tinware, and sheet metal products such as metal awnings, heating ducts, roofing and eaves trough. Establishments primarily engaged in tinsmithing and sheet metal work on construction projects are classified in Industry No. 421-Special-Trade Contractors. Establishments primarily engaged in making enamelled bathroom fixtures such as bath tubs and basins are included in Industry No. 309 - Miscellaneous Metal Fabricating Industries.

The introduction of the final stage of the establishment concept in the Annual Census of Manufactures has resulted in certain changes and necessitated some adjustments to the statistics. The major change in this industry was the inclusion in 1961 of establishments primarily engaged in custom electroplating, other than plating with precious metals, and custom anodizing. Refer to the Explanatory Notes section of this report for a more detailed explanation.

TABLE 1. Principal Statistics — Manufacturing Activity, 1957 - 61
Basis: Revised Standard Industrial Classification and New Establishment Concess

					Em	ployees				Cost of	Value of	
	Year	Estab- lish-	Product related	tion and workers		rative and	Tot	tal ⁴	Cost of fuel and elec-	materials and supplies	shipments of goods of own	Value added
		ments	Number	Wages	Number	Salaries	Number	Salaries and wages	tricity4	used4	manu- facture*	
		No.		\$'000		\$'000				\$'000		-
1957	**************************************	372	13,925	51,005	4, 288	20,729	18, 213	71,733	3,326	155, 294	286, 424	
1958	000070040000707-000406007555090000504550050750	392	13,436	51,975	4, 177	21, 178	17,613	73, 153	3, 362	161,596	307, 973	141, 787
1959	***************************************	391	14,065	58, 104	4,350	23,499	18,415	81,603	3, 532	179, 540	333, 054	154, 389
1960	***************************************	414	14, 415	60, 511	4,707	28,081	19, 122	86, 592	3, 696	168, 581	337, 473	165, 313
1961	0.00.0.00.0.0.0.0.0.0.0.0.0.0.0.0.0.0.	436	14, 208	61,758	4,376	23, 218	18, 584	84,975	3,862	203, 300	374,353	168, 578

See footnotes following Table 3 A. also Standard Industrial Classification item in Explanatory Notes (par. 4).

TABLE 1 A. Principal Statistics - Manufacturing Activity and Total Activity, 1961 and 1962

Basis: Revised Standard Industrial Classification and New Establishment Concept?

				Mar	ufacturin	g activity				Т	otal acti	vity	
Year and province	Estab-		roduction ated work		Cost of	Cost of materials	Value of shipments of goods	Value		owners utners		otal oyees'	Total
province	lish- ments	Number	Man- hours paid	Wages	elec- tricity ³	and supplies used ⁴	of own manu- facture	added4	Number	With- drawals	Number	Salaries and wages	value added*
	No.		'000			\$'000				\$'000		\$10	00
1961													
Newfoundland	2	1											
Prince Edward Island	1	9	15	25	3	231	445	181	1 1	1.1	15	43	208
Vova Scotia	2]											
New Brunswick	4	11	23	43	8	328	520	123	11	1.1	19	94	211
Quebec	127	4,337	9,302	18,027	1, 162	46,805	96,980	49,893	49	226	5, 387	23,719	51,651
Ontario	29 i	9, 178	19, 856	39, 661	2, 938	130, 087	239, 165	107, 202	86	356	12, 859	59, 648	111, 784
Manitoba	28	777	1,629	2,966	146	6,677	13,637	7,058	8	32	1,057	4,428	7, 724
Saskatchewan	10	199	419	778	40	2,934	4,905	1,850	1.1	1.1	276	1, 161	2, 034
Alberta	23	336	652	1,327	69	6,309	10,540	4,481	4	14	517	2, 151	5, 156
British Columbia	54	708	1,430	3, 587	237	13,508	24, 642	9,902	12	54	1,026	5, 358	12,543
CANADA	542	15, 555	33, 327	66, 417	4, 603	206, 878	390, 834	180, 689	164	692	21, 156	96, 603	191, 311
1962													
Newfoundland	2	1		ŀ									
Prince Edward Island	1	34	75	103	11	458	839	370	11	3.3	48	180	425
Nova Scotia	4	34	10	100		430	000	310			10	100	100
Vew Brunswick	5	12	22	38	7	254	425	179	11	1.1	21	91	285
Quebec	131	4, 833	10, 464	20, 971	1, 200	55, 694	105, 444	48, 699	46	206	6,051	28, 201	50, 295
Ontario	315	10, 564	22, 529	46.398	3,362	152,018	273. 545	121, 191	103	433	14,359	68, 813	126, 353
Anitoba	28	814	1, 702	3, 161	156	6, 769	13, 701	7,023	8	27	1, 141	4,844	7,523
askatchewan	9	282	595	1, 152	42	3, 532	5, 887	2, 290	_	_	372	1.595	2, 574
Uberta	28	449	893	1,818	80	7,557	12, 938	5, 343	9	35	617	2, 674	6,041
British Columbia	59	805	1,691	4, 267	258	16,408	27, 180	10, 497	9	37	1, 114	6, 155	11, 23
CANADA	582	17, 793	37, 971	77, 909	5,117	242, 688	439, 956	195, 592	181	749	23, 723	112, 553	204, 726

See Table 2 and footnotes following Table 3 A. also Standard Industrial Classification item in Explanatory Notes (par 4).

TABLE 1B. Principal Statistics classified by Size Groups based on Shipments of Goods of Own Manufacture, 1961 and 1962

Basis: Revised Standard Industrial Classification and New Establishment Concept²

				Mai	nufacturing	activity					Total acti	ivity	
Size group	Estab- lish- ments		oduction ated work		Cost of	Cost of materials	Value of shipments of goods	Value		owners ortners		otal oyees'	Total
	menes	Number	Man- hours paid	Wages	elec- tricity	and supplies used*	of own manu- facture*	added4	Number	With- drawals	Number	Salaries and wages	value added
1961	No.		'000			\$'000	1			\$1000		\$10	000
Under \$10,000 \$ 10,000 to \$ 24,999 25,000 '' 49,999 50,000 '' 99,999 100,000 '' 499,999 500,000 '' 499,999 1,000,000 '' 4,999,999 5,000,000 and over Head offices, sales offices and auxiliary units	26 45 71 66 89 118 54 61	15 67 201 430 987 2,541 1,676 5,803 3,835	21 109 374 846 2,033 5,464 3,651 12,302 8,527	28 162 619 1,420 3,238 9,035 6,107 23,766 22,042	14 26 87 133 318 771 477 1,635 1,144	44 276 839 1.539 4.474 16,189 19,909 70,913 92,695	158 839 2,506 4,769 12,261 38,264 37,768 134,127 160,142	100 541 1,585 3,095 7,469 21,187 17,976 62,063 66,672	15 44 45 28 21 11 —	34 134 171 151 133 69	22 90 262 540 1, 284 3, 314 2, 258 7, 924 5, 241	39 196 807 1,883 4,560 13,002 9,908 34,903 29,882	115 544 1, 626 3, 198 7, 773 24, 622 19, 246 66, 933 67, 305
Totals	542	15, 555	33, 327	66, 417	4, 603	206, 878	390,834	180,689	164	692	21, 158	96, 603	191, 311
1962													
Under \$10,000 \$ 10,000 to \$ 24,999 25,000 " 49,999 50,000 " 99,999 100.000 " 199,999 200,000 " 499,999 500,000 " 499,999 5,000,000 " 4,999,999 5,000,000 and over Head offices, sales offices and auxiliary units 100,000	28 49 60 79 98 120 65 68 15	13 56 202 455 1,026 2,636 2,358 6,202 4,845	17 97 375 917 2,088 5,602 5,165 13,234 10,476	29 167 639 1,654 3,876 9,310 9,376 25,566 27,294	13 36 79 158 346 722 566 1,828 1,369	50 286 742 1,803 4,980 16,309 21,158 78,758 118,603	172 865 2, 263 5, 598 13, 987 38, 753 44, 237 147, 700 186, 381	108 545 1, 439 3, 641 8, 663 21, 962 23, 128 68, 652 67, 455	25 48 48 32 23 2 3	40 168 193 156 148 18 28	19 73 250 573 1,335 3,443 3,021 8,419 6,423	43 203 793 2, 135 5, 393 13, 574 13, 542 38, 254 37, 267	113 556 1,524 3,777 9,240 24,171 23,721 73,360 68,314
Totals	582	17, 793	37, 971	77, 909	5, 117	242,688	439, 956	195.592	181	749	23, 723	112, 553	204, 726

See footnotes following Table 3 A.

TABLE 1 C. Principal Statistics classified by Size Groups based on Manufacturing Value Added, 1961 and 1962

Basis: Revised Standard Industrial Classification and New Establishment Concept²

				Mai	nufacturin	g activity				- 7	Total acti	vity	
Size group	Estab- lish- ments		oduction ated work		Cost of	Cost of materials	Value of shipments of goods	Value	Working and pa	owners rtners*		otal oyees ⁷	Total
	ments	Number	Man- hours paid	Wages	elec- tricitys	and supplies used*	of own manu- facture*	added4	Number	With- drawals	Number	Salaries and wages	value added*
	No.		'000	11		\$'000		·		\$'000		\$10	000
1961								i					
Under \$10,000	45 77 70 94 98 90 35 28	33 187 369 885 1,677 2,974 2,306 4,829 2,295	49 328 704 1,822 3,552 6,434 4,895 10,524 5,020	72 524 1, 183 2, 811 5, 779 11, 015 8, 844 22, 740 13, 450	23 69 128 331 468 900 578 1,505 601	192 913 1,863 5,798 16,259 28,607 27,724 76,163 49,361	466 2,337 4,568 12,912 30,652 56,813 53,039 139,264 90,763	252 1,350 2,579 6,695 13,873 27,745 25,357 60,957 41,880	333 600 277 344 6	79 214 131 194 29 44	46 239 470 1, 156 2, 278 3, 868 3, 118 6, 807 2, 955	89 651 1,591 4,019 8,842 16,238 13,149 33,802 16,801	272 1, 378 2, 657 7, 479 17, 492 29, 679 26, 969 63, 070 42, 365
Totals	542	15, 555	33, 327	66, 417	4,603	206, 878	390, 834	180, 889	164	692	21, 156	96,603	191, 31
1962													
Under \$10,000 10,000 to \$ 24,999 25,000 '' 49,999 50,000 '' 99,999 100,000 '' 199,999 200,000 '' 499,999 5,000,000 '' 4,999,999 1,000,000 '' 4,999,999 1,000,000 and over lead offices, sales offices and auxiliary units ¹⁰	48 72 71 108 92 107 42 39	28 170 330 997 1,524 3,509 2,886 6,768 1,581	40 311 646 2,033 3,130 7,651 6,200 14,413 3,547	89 523 1,163 3,508 5,399 13,523 11,270 31,740 10,714	25 69 119 325 460 919 740 2,032 428	178 960 2,054 7,209 10,729 29,947 31,473 114,188 45,952	469 2, 275 4, 715 15, 310 23, 871 62, 683 59, 879 196, 810 73, 944	265 1, 242 2, 486 7, 793 12, 811 32, 163 28, 584 81, 601 28, 647	43 64 37 26 6 4	101 239 171 160 33 39 5	38 225 423 1,357 2,046 4,482 3,713 9,454 1,818	88 702 1,518 5,216 8,193 19,281 15,883 47,721 12,602	281 1,506 2,786 8,993 14,126 34,038 29,331 84,916 28,799
Totals	582	17, 793	37, 971	77, 909	5, 117	242, 688	439.956	195, 592	181	749	23, 723	112, 553	204, 72

See footnotes following Table 3 A.

TABLE 1D. Principal Statistics classified by Size Groups based on Total Value Added, 1961 and 1962

Basis: Revised Standard Industrial Classification and New Establishment Concept²

				Man	ufacturing	activity				7	Cotal acti	vity	
Size group	Estab-		oduction a		Cost of	Cost of materials	Value of shipments of goods	Value		owners irtners		otal oyees ⁷	Total
	ments	Number	Man- houts pald	Wages	elec- tricity ⁵	and supplies used	of own manu- facture4	added4	Number	With- drawals	Number	Salaries and wages	value added*
	No.		'000			\$'000				\$'000		\$10	000
1961													
Under \$10,000 \$ 10,000 to \$ 24,999 25,000 '' 49,999 50,000 '' 99,999 100,000 '' 199,999 200,000 '' 499,999 1,000,000 '' 4,999,999 5,000,000 and over Head offices, sales offices and auxiliary units 10	43 76 69 92 96 92 36 33 5	32 180 342 849 1.634 2.870 2.284 5.069 2,295	47 320 647 1,747 3,470 6,228 4,833 11,014 5,020	68 504 1,083 2,782 5,542 10,678 8,640 23,670 13,450	22 63 127 319 450 884 504 1.634	182 883 1,827 4,848 13,717 27,337 29,422 79,302 49,361	442 2.257 4.394 11,637 27,429 54,987 52,533 146,372 90,784	240 1,306 2,473 6,420 13,153 27,125 23,379 64,713 41,880	31 62 27 34 4 6	75 219 131 194 29 44 —	44 225 437 1,084 2,146 3,767 3,002 7,275 2,955	82 609 1,447 3,845 8,202 15,821 12,567 35,809 16,801	243 1, 305 2, 524 6, 550 14, 069 29, 028 25, 159 70, 119 42, 365
Totals	542	15,555	33,327	66, 417	4,603	206,878	390,834	180,689	164	692	21, 156	96, 603	191,311
1962													
Under \$10,000 \$ 10,000 to \$ 24,999 25,000 " 49,999 50,000 " 99,999 100,000 " 199,999 500,000 " 499,999 1,000,000 " 4,999,999 5,000,000 and over Head offices, sales offices and auxiliary units 10	47 68 70 103 93 110 47 41 3	24 153 318 874 1.534 3.318 3.025 6.966 1.581	33 276 626 1. 782 3. 149 7. 224 6. 491 14. 843 3. 547	53 477 1,121 3,158 5,307 12,755 11,780 32,544 10,714	25 64 115 296 441 903 718 2,127 428	172 787 1,749 5,377 10,064 27,348 36,333 114,906 45,952	455 2,009 4,320 12,838 22,699 58,802 65,462 199,427 73,944	258 1, 148 2, 466 7, 188 12, 200 30, 858 29, 409 83, 418 28, 647	43 63 38 26 6 4 1	101 233 177 160 33 39 5	33 193 405 1, I24 2, 016 4, 286 3, 968 9, 713 1, 818	70 583 1,437 4,279 7,842 18,369 17,228 48,794 12,602 1,349	263 1, 166 2, 514 7, 436 13, 308 32, 823 31, 379 87, 089 28, 799
Totals	582	17,793	37,971	77, 909	5, 117	242,688	439,956	195, 592	181	749	23,723	112,553	204, 726

See footnotes following Table 3 A.

TABLE 1E. Principal Statistics classified by Size Groups based on Total Employed, 12 1961 and 1962

Basis: Revised Standard Industrial Classification and New Establishment Concept²

				Mar	ufacturing	activity				7	Total acti	vity	
Size group	Estab- lish-		oduction ated work		Cost of	Cost of materials	Value of shipments	77. 1.		owners rtners		otal oyees ⁷	Total
	ments	Number	Man- hours pald	Wages	fuel and elec- tricity ⁵	and supplies used ⁴	of goods of own manu- facture	Value added ⁴	Number	With- drawals	Number	Salaries and wages	value added*
1961	No.		'000			\$'000				\$'000		\$'0	000
Under 5 employees	121 152 183 43 21 17 5	172 947 3,872 2,224 1,997 4,022 2,321	310 1,909 8,310 4,776 4,261 8,845 4,916	507 3, 244 13, 946 8, 394 8, 012 20, 481 11, 834	96 369 1,171 672 609 1,047 639	1, 247 8, 375 40, 418 29, 818 18, 577 76, 060 32, 384	3,378 17,652 80,609 53,281 40,276 133,853 61,784	2.046 8,856 39,430 23,165 21,026 58,660 27,506	98 52 12 2 - -	329 273 74 17 —	222 1, 263 5, 118 2, 937 2, 688 5, 449 3, 257	673 4,632 20,968 12,352 11,512 28,955 16,090	2,085 9,301 44,742 24,649 22,455 60,152 27,979
Totals	542	15, 555	33, 327	66, 417	4,603	206, 878	390, 834	180,689	164	692	21, 156	96, 603	191,311
1962													
Under 5 employees 5- 14 employees 15- 49 " 50- 99 " 100- 199 " 200- 499 " 500 employees and over Head offices, sales offices and auxiliary units "	104 190 182 54 28 20 4	116 1, 147 3, 956 2, 791 2, 728 4, 915 2, 140	210 2,319 8,437 6,119 5,743 10,539 4,605	374 4, 216 14, 893 11, 410 10, 654 23, 501 12, 861	77 413 1.147 812 816 1.224 629	876 9,860 35,522 35,468 31,303 82,335 47,324	2,441 21,824 75,116 63,791 61,409 138,118 77,258	1,489 11,538 38,776 28,402 30,501 55,008 29,878	91 83 4 3	277 415 35 22 — —	149 1,524 5,176 3,605 3,700 6,703 2,699	470 5,996 21,829 16,436 15,923 34,217 16,335	1,502 12,607 41,308 29,779 33,669 55,982 29,927
Totals	582	17, 793	37,971	77, 909	5, 117	242,688	439,956	195, 592	181	749	23,723	112,553	204, 726

See footnotes following Table 3 A.

TABLE 1F. Principal Statistics classified by Type of Organization, 1961 and 1962

Basis: Revised Standard Industrial Classification and New Establishment Concept²

				- Man	ufacturin	g activity				7	Total acti	vity	
Type of organization	Estab-		oduction a		Cost of	Cost of materials	Value of shipments of goods	Value	Working and pa	owners rtners		otal oyees'	Total
	ments	Number	Man- hours paid	Wages	elec- tricity ⁵	and supplies used	of own manu- facture ⁴	added4	Number	With- drawals	Number	Salaries and wages	value added*
	No.		000			\$'000		,		\$'000		\$10	000
1961													
Individual ownerships	84	237	440	730	90	1,798	3, 981	2,109	79	347	262	793	2,130
Partnerships	42	279	615	1,004	108	1,128	3,577	2,342	85	345	307	1,102	2,387
Incorporated companies Cooperatives	} 416	15,039	32,271	64,684	4,405	203, 952	383,276	176,239	_	_	20,366	93,287	186,864
Head offices, sales offices and auxiliary units10				,				* * * *			221	1,422	(51
Totals	542	15,555	33,327	66, 417	4,603	206,878	390,834	180, 689	164	692	21,156	96,603	191,311
1962													
Individual ownerships	79	154	288	503	73	941	2,450	1,438	84	316	171	544	1,474
Partnerships	46	278	585	1,010	92	1,142	4,194	2,994	97	432	308	1,191	2,986
Incorporated companies	} 457	17,361	37,098	76,395	4,952	240,605	433,312	191, 160	_	_	23,077	109,469	200,315
Head offices, sales offices and auxiliary units10											167	1,349	(49
Totals	582	17, 793	37, 971	77,909	5,117	242,688	439, 956	195,592	181	749	23, 723	112,553	204,726

See footnotes following Table 3 A.

TABLE 2. Industry Outputs, Inputs and Value Added, 1961 and 1962 Busis: Revised Standard Industrial Classification and New Establishment Concept²

Item	196		196	2
		\$'000	()	
Manufacturing activity:				
Value of shipments - Goods of own manufacture		390,834		439,956
Add: Closing inventory - Goods in process	13,213		14, 868	
Finished goods	21,249	34,462	24,871	39,739
Deduct: Opening inventory - Goods in process	13,180		13,575	
Finished goods	19,946	(33,126)	22,723	(36,298
Gross output - Manufacturing activity		392,170		443,397
Deduct: Cost of materials and supplies used in manufacturing activity	206,878		242,688	
Cost of fuel and electricity used	4,603	(211,481)	5,117	(247,805
Value added - Manufacturing activity		180,689		195,592
Non-manufacturing activities:				
Value of shipments - Goods not of own manufacture				47,619
Add: All other revenue			2,558	
Closing inventory - Goods purchased for resale	5,442		6,113	8,671
Deduct: Purchases of goods for resale as such	a b		38,679	
Opening inventory - Goods not of own manufacture	5,958		6,303	
Cost of all other materials and supplies used		()	2, 174	(47, 156
Value added - Non-manufacturing activities		10,622		9,134
Total value added	191,3	11	204, 7	26

See footnote following Table 3 A.

TABLE 3. Employment and Payroll, 1961 and 1962

Basis: Revised Standard Industrial Classification and New Establishment Concept²

					Еп	ployees						Sala	ries and v	wages	
Year and		Producti related v			tra	ninis-		es,		tal	Producti		Admin-	Sales.	Tota)
province	Manufa	cturing*	Ot	her*	and c	ffice.9	distr	ibution ⁹	empio	yees	related w	orkers	tive	and distri-	salaries
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Manufac- turing	Other	office	bution	wages
1961					ոստ	ber							\$'000		
Newfoundland	} 9	-		4.4			* *		13	2	25	6.8			43
New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia	3, 958 7, 888 764 199 322 673	379 1, 290 13 14 35	0 0 0 4 11 11 0 11 0 0	0 9 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	# # # # # # # # # # # # # # # # # # #	0 H H H H H H H H H H H H H H H H H H H	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 E	17 4, 767 10, 513 977 262 470 928	620 2,346 80 14 47 98	18,027 39,661 2,968 778 1,327 3,587	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	94 23, 719 59, 648 4, 428 1, 161 2, 151 5, 358
Canada	13, 824	1, 731	• •		• •	• •			17, 947	3, 209	66, 417	4 8			96, 603
1962 Newfoundland Prince Edward Island Nova Scotia	} 26	8	-	_	7	4	2	1	35	13	104	-	60	15	179
New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia	12 4, 426 9, 054 805 279 439 764	407 1,510 9 3 10 41	32 34 7	5	643 1,829 212 61 101 182	1 239 861 63 17 23 56	255 895 38 10 35 59	2 47 171 7 2 9	18 5, 356 11, 812 1, 062 350 575 1, 005	3 695 2,547 79 22 42 109	38 20,971 46,398 3,161 1,152 1.818 4,267	198 235 28 —	21 5,024 15,601 1,443 384 615 1,447	31 2,009 6,579 212 59 241 441	91 28, 201 68, 813 4, 844 1, 595 2, 674 6, 155
Canada	15, 805	1,988	73	7	3, 037	1, 264	1, 298	251	20, 213	3,510	77, 909	461	24, 594	9, 589	112, 553

See footnotes following Table 3 A.

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

Basis: Revised Standard Industrial Classification and New Establishment Concept³

Month	Establishme monthly	nts reporting v detail
	Male	Female
	nun	ber
Panuary Pebruary March March March May Lune Luly August September October November December Average for establishments reporting monthly detail (collected only for large establishments) Average for all establishments Average for all establishments	12,498 12,709 12,971 13,440 14,157 14,808 14,577 15,050 14,828 14,358 13,846 13,193	1, 652 1, 650 1, 737 1, 763 1, 863 1, 923 1, 749 1, 911 1, 856 1, 816 1, 777 1, 760

See Table 2 and Explanatory Notes concerning manufacturing and non-manufacturing activities.

¹ See Explanatory Notes.

² See Explanatory Notes.

³ This category, in this table only, includes working owners and partners. Since administrative and office employees are engaged in a variety of activities they have been excluded from manufacturing activity beginning with the revised 1961 series shown in the following tables. They are included here for purposes

of comparison with the tabulations of previous years.

4 Conceptually identical to previous years. See Explanatory Notes.

5 Cannot be reported separately for manufacturing and non-manufacturing activities but related substantially to manufacturing activity. Identical concept to previous years.

6 Working owners and partners were included with administrative and office employees in the "Manufacturing series" published in former years, See Ex-

planatory Notes.
Includes production and related workers, administrative and office employees, sales distribution and other employees. See Explanatory Notes for the

Includes production and related workers, administrative and office employees, sales distribution and other employees. See Explanatory Notes for the treatment of head office emoloyees and those employed in auxiliary units.

Value of total shipments and other operational revenue less total cost of materials, supplies, fuels used and purchases of products and materials for resale in the same condition; all adjusted for inventory changes where required. See Table 2 and Explanatory Notes.

Sales and distribution workers and oroduction workers (non-manufacturing) are included for the first time as a result of the full implementation of the new definition of the establishment. The figures for production workers (non-manufacturing), administrative and office employees and sales and distribution workers are not yet available for 1961 but form part of total employees, Sales and distribution workers may include some employees that are reported as part of a manufacturing establishment but are not working at the establishment's location. Head offices, sales offices, etc., which report separately are included in the figures for the province in which they are located.

These data cover the activities reported by separately located units such as head offices, sales offices, administrative offices, laboratories, warehouses, the cs. Such units do not usually constitute separate "establishments" as they do not normally generate all the necessary elements of input and output statistics. However, they are treated as extensions of manufacturing establishments and, in the case of individual industries, may be located in provinces where no processing plants are situated. For the most part, these units contribute only to costs of operations (mainly salaries and wages) and they are included here to provide completeness and consistency of the statistics. See Explanatory Notes which deal with Single and Multi establishments for a complete explanation of procedures.

Confidential data.

12 Confidential data,
13 Includes paid employees and working owners but excludes unpaid family workers.

Note: Figures may not add due to rounding.

TABLE 4. Materials and Supplies Used in Manufacturing Activity, 1962

Basis: Revised Standard Industrial Classification and New Establishment Concept¹

Description		Quantity	Cost
			\$'000
Materials used:			
Iron and steel:			
Bars		7,596	1,270
Plates	**	25,682	4, 145
Sheets:			
Black	44	169, 361	26, 343
Galvanized	64	136, 932	25, 476
Tin plate	**	329, 277	60,676
Strip	44	24, 139	4, 084
Structural shapes	64	5, 919	978
Wire	44	3,193	646
Pipe, tubes and fittings			521
Alloy steel in ali forms:			
Carbon and alloy steel, including tool steel:	221		
Billets, bars and rods Other shapes			23 865
Stainless:			
Billets, bars and rods		0.0	276
Other shapes		* *	4,806 572
Other iron and steel	***		4,407
Non-ferrous metals:			
Aluminum:	naund	100 500	20
Castings	6.6	196, 506 20, 021, 113	7,574
Other forms	100	15, 843, 873	5,738
Brass and bronze		1,784,742	888
Copper: Sheet		879, 943	527
Wire	44	80, 179 332, 337	50 186
Lead		713.467	92
	1		
Nickel	***	415, 285	445
Tin		24,677	29
Zinc	***	7,018,357	965
Solders	44	2,145,796	612
Other non-ferrous metals	***		203
Other materials:			
Lumber	M ft. b.m.	3,995	402
Frit for enamelling		2,228,611	480
Muriatic acid		868.045	36
Paints, oils and varnishes	• 45		
		8 6 6	5, 139
Cork discs		***	1, 292
Ammonium chloride		123,000	12
Sulphuric acid, 100%	esh #4	1, 662, 759	60
All other materials and components used ¹	417	* * *	70, 668
. Containers and other packaging materials and supplies used	> 3 m > 4 m 3 4 > 4 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	>>====================================	4,780
. Operating, maintenance and repair supplies used (excluding fuel)	*************	\$73764M3M3487474M3 \$0MM87477M473 kum4 6k4644	5, 965
. Amount paid out to others for work done on materials owned by establishments	****************	h	1, 367

¹ See Explanatory Notes.
² No detailed information on materials used was collected from small establishments, the estimated costs for which are included here, In 1962 these estimated costs were \$11,020,529.

TABLE 5. Fuel and Electricity Used1 in Manufacturing Activity,2 1962 Basis: Revised Standard Industrial Classification and New Establishment Concept's

Description		Quantity	Cost
. Large establishments which reported commodity detail:			\$'000
Bituminous coal: (a) From Canadian mines (b) Imported	ton	882 14,111	17 181
Sub-bituminous coal (from Alberta mines only) Anthracite coal Lignite coal Coke	ton	521	8
	Imp. gal.	1,359,928 6,117,415 757	503 705 7
	Imp. gal. M cu.ft.	130,206 59 1,327,207	30 1,090
Other fuel	kwh.	151, 721, 749	1,865
Estimate for small establishments for which no data were collected: Fuel and electricity			653
3. All establishments:			
Total fuel and electricity used			5,117

TABLE 6. Shipments of Goods of Own Manufacture, 1962 Basis: Revised Standard Industrial Classification and New Establishment Concept¹

Barrels and drums, steel: Repeat shippers One-time shippers One-ti	\$'000
Barrels and drums, steel: Repeat shippers One-time shippers One-time shippers Bottle caps—Metal Cans, metal (food and non-food) Culvert pipe ton 59,195 Dairy supplies: Cream and milk cans Other Galvanized ware (pails, washtubs, etc; but not garbage and ash cans) Garbage and ash cans Hardware and tools Heating equipment: Pipe and elbows (furnace and stove) Tank heaters for domestic water supply Other heating equipment for cafeterias, restaurants, etc. Kitchen equipment for cafeterias, restaurants, etc. Kitchenware, household (vitreous enamelled aluminum and stainless steel) Maple syrup equipment: Evaporators (complete sets of pans) Furnaces Other Other Poultry supplies (incubators, brooders, etc.) Signs metal (including enamelled signs) Spinnings, all metals (n.e.s.) Stampings, all metals (n.e.s.) Stampings, all metals (n.e.s.)	
Repeat shippers One-time shippers One-time shippers Bottle caps – Metal Cans, metal (food and non-food) Culvert pipe ton Dairy supplies: Cream and milk cans Other Galvanized ware (pails, washtubs, etc; but not garbage and ash cans) Garbage and ash cans Heating equipment: Pipe and elbows (furnace and stove) Tank heaters for domestic water supply Other heating equipment (range boilers, stoves, etc.) Kitchen equipment for cafeterias, restaurants, etc Kitchenware, household (vitreous enamelled aluminum and stainless steel) Maple syrup equipment: Evaporators (complete sets of pans) Furnaces Other Other Poultry supplies (incubators, brooders, etc.) Signs metal (including enamelled signs) Spinnings, all metals (n.e.s.) Stampings, all metals (n.e.s.) Stampings, all metals (n.e.s.)	
Bottle caps — Metal	744 5,649
Cans, metal (food and non-food) Culvert pipe ton 59,195 Dairy supplies: Cream and milk cans Other Galvanized ware (pails, washtubs, etc; but not garbage and ash cans) Garbage and ash cans Hardware and tools Heating equipment: Pipe and elbows (furnace and stove) Tank heaters for domestic water supply Other heating equipment (range boilers, stoves, etc.) Kitchen equipment for cafeterias, restaurants, etc. Kitchenware, household (vitreous enamelled aluminum and stainless steel) Maple syrup equipment: Evaporators (complete sets of pans) Furnaces Other Poultry supplies (incubators, brooders, etc.) Signs metal (including enamelled signs) Spinnings, all metals (n.e.s.) Steel office furniture Tanks:	17.389
Culvert pipe ton 59,195 Dairy supplies: Cream and milk cans Other Galvanized ware (pails, washtubs, etc; but not garbage and ash cans) Garbage and ash cans Hardware and tools Heating equipment: Pipe and elbows (furnace and stove) Tank heaters for domestic water supply Other heating equipment (range boilers, stoves, etc.) Kitchen equipment for cafeterias, restaurants, etc. Kitchenware, household (vitreous enamelled aluminum and stainless steel) Maple syrup equipment: Evaporators (complete sets of pans) Furnaces Other Poultry supplies (incubators, brooders, etc.) Signs metal (including enamelled signs) Spinnings, all metals (n.e.s.) Steel office furniture Tanks:	120,752
Dairy supplies: Cream and milk cans Other Galvanized ware (pails, washtubs, etc; but not garbage and ash cans) Garbage and ash cans Hardware and tools Heating equipment: Pipe and elbows (furnace and stove). Tank heaters for domestic water supply. Other heating equipment (range boilers, stoves, etc.) Kitchen equipment for cafeterias, restaurants, etc. Kitchenware, household (vitreous enamelled aluminum and stainless steel) Maple syrup equipment: Evaporators (complete sets of pans) Furnaces Other Poultry supplies (incubators, brooders, etc.) Signs metal (including enamelled signs) Spinnings, all metals (n.e.s.) Stampings, all metals (n.e.s.) Steel office furniture Tanks:	18,547
Galvanized ware (pails, washtubs, etc; but not garbage and ash cans) Garbage and ash cans Hardware and tools Heating equipment: Pipe and elbows (furnace and stove) Tank heaters for domestic water supply Other heating equipment (range boilers, stoves, etc.) Kitchen equipment for cafeterias, restaurants, etc. Kitchenware, household (vitreous enamelled aluminum and stainless steel) Maple syrup equipment: Evaporators (complete sets of pans) Furnaces Other Poultry supplies (incubators, brooders, etc.) Signs metal (including enamelled signs) Spinnings, all metals (n.e.s.) Stampings, all metals (n.e.s.) Steel office furniture Tanks:	821 400
Garbage and ash cans Hardware and tools Heating equipment: Pipe and elbows (furnace and stove) Tank heaters for domestic water supply Other heating equipment (range boilers, stoves, etc.) Kitchen equipment for cafeterias, restaurants, etc. Kitchenware, household (vitreous enamelled aluminum and stainless steel) Maple syrup equipment: Evaporators (complete sets of pans) Furnaces Other Poultry supplies (incubators, brooders, etc.) Signs metal (including enamelled signs) Spinnings, all metals (n.e.s.) Stampings, all metals (n.e.s.) Steel office furniture Tanks:	475
Hardware and tools Heating equipment: Pipe and elbows (furnace and stove). Tank heaters for domestic water supply	2, 795
Heating equipment: Pipe and elbows (furnace and stove). Tank heaters for domestic water supply. Other heating equipment (range boilers, stoves, etc.) Kitchen equipment for cafeterias, restaurants, etc. Kitchenware, household (vitreous enamelled aluminum and stainless steel) Maple syrup equipment: Evaporators (complete sets of pans). Furnaces. Other Poultry supplies (incubators, brooders, etc.) Signs metal (including enamelled signs) Spinnings, all metals (n.e.s.). Stampings, all metals (n.e.s.) Steel office furniture Tanks:	4,358
Kitchen equipment for cafeterias, restaurants, etc. Kitchenware, household (vitreous enamelled aluminum and stainless steel) Maple syrup equipment: Evaporators (complete sets of pans) Furnaces Other Poultry supplies (incubators, brooders, etc.) Signs metal (including enamelled signs) Spinnings, all metals (n.e.s.) Stampings, all metals (n.e.s.) Steel office furniture Tanks:	4,469 5,918 4,152
Kitchenware, household (vitreous enamelled aluminum and stainless steel) Maple syrup equipment: Evaporators (complete sets of pans) Furnaces Other Poultry supplies (incubators, brooders, etc.) Signs metal (including enamelled signs) Spinnings, all metals (n.e.s.) Stampings, all metals (n.e.s.) Steel office furniture Tanks:	10,536
Maple syrup equipment: Evaporators (complete sets of pans) Furnaces Other Poultry supplies (incubators, brooders, etc.) Signs metal (including enamelled signs) Spinnings, all metals (n.e.s.) Stampings, all metals (n.e.s.) Steel office furniture Tanks:	7, 745
Poultry supplies (incubators, brooders, etc.) Signs metal (including enamelled signs) Spinnings, all metals (n.e.s.) Stampings, all metals (n.e.s.) Steel office furniture Tanks:	175 35 252
Signs metal (including enamelled signs) Spinnings, all metals (n.e.s.) Stampings, all metals (n.e.s.) Steel office furniture Tanks:	139
Spinnings, all metals (n.e.s.) Stampings, all metals (n.e.s.) Steel office furniture Tanks:	1,032
Stampings, all metals (n.e.s.) Steel office furniture Tanks:	
Steel office furniture	533
Tanks:	18,617
	60
Pressure and vacuum Storage and processing Other	633 5,398 5,288
Tinware, Japanned or not	2,292
Architectural and consumental motal work	2, 292
Meta) door frames	1.041
Flooring open steel	
Lockers and shelving	2,033 3,833

See footnotes at end of table.

Does not include fuel and electricity produced for own use.

Includes only fuel and electricity purchased. Conceptually identical to previous years in that it also includes relatively small amounts used in non-manufacturing activities since these cannot be reported separately.

See Explanatory Notes.

TABLE 6. Shipments of Goods of Own Manufacture, 1962 - Concluded

Description	Quantity	Value
		\$1000
Products - Concluded:		
Metal lath and corner bead		3,355
Metal mouldings and trim		28
Partitions, aluminum and steel		1,749
Roof deck		7,851
Roof drainage equipment:		
Steel		2, 506 205
Other	***	203
Sheets, roofing and siding: Aluminum		9,644
Stee!	***	6,362
Ventilators, including ducts		4,991
Windows, excluding combination storm and screen		565
Windows, other (combination storm and screen)		245
Prefabricated or portable metal buildings, complete units (in sections or panels) and prefabricated exterior metal panels (curtain wall sandwich panels and single faced panels)	* * 4	3, 048
Panels, parts or sections for prefabricated buildings, not sold as a complete unit		3
Amount received for custom anodizing		1,967
Amount received for custom electroplating		15,501
Amount received for custom enamelling		816
Amount received for custom work and repairs, n.e.s.		2,479
All other products		127,612
Amount received in payment for work done on materials and products owned by others		3,452
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be dividual commodity items described above	deducted from in-	(1,297)
Net adjustment for establishments receiving progress payments ²	4,000,000,000	123
Total adjusted value of shipments and work done	***************************************	439, 956

TABLE 7. Industry Inventories, 19621

		Manuf	acturing		Non- manufacturing	
Province .	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total manufacturing	Products or materials purchased for resale	Total invertories
			book val	ue \$'000	1	
Opening: Newfoundland Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia Totals	35 11 6,848 18,004 1,661 655 930 1,318 29,460	40 3,868 6,581 619 107 484 1,861	26 22 6, 296 13, 338 686 243 613 1, 498 22, 723	77 73 17,012 37,923 2,966 1,005 2,027 4,677	67 33 1,502 3,941 147 43 416 155	144 106 18,514 41,864 3,113 1,04£ 2,443 4,832
Closing: Newfoundland Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia	19 12 6,683 18,530 1,583 785 998 1,322	33 48 3,954 7,203 931 153 598 1,949	30 6,360 15,742 622 174 542 1,391	90 16,997 41,475 3,136 1,092 2,138 4,662	57 87 1,628 3,489 143 53 507 149	119 177 18, 622 44, 964 3, 277 1, 142 2, 64 4, 813
Totals ⁴	29, 912	14,868	24, 871	69,651	6, 113	75,76

See Explanatory Notes.
See footnote 1, Table 7.
Included with all other products.

Values represent book values of inventories 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.
See Explanatory Notes.
The opening inventories may differ from the closing inventories for the previous survey 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.
Figures may not add due to rounding.

TABLE 8. Shipments of Goods of Own Manufacture - All Industries

A. Metal Cans, 1953-62

Year	Value	Year	Value
	\$'000		\$'000
953	74,309	1958	107, 125
954	77,842	1959	114,098
955	88,559	1960	108,520
956	90, 188	1961	109, 578 ¹ 122, 680
957	97.521	19622	122,680

¹ The total for 1961 does not include cans made for own use by some firms previously classified to this industry which were transferred to other industries as a result of combinations in line with the New Establishment Concept. On this account the total for 1961 is not exactly comparable with totals for previous years.
² Includes aluminum cans as of 1962.

B. Steel Barrels and Drums, 1953-62

	Repeat shi	ppers	One-time shippers		
Year	Number	Value	Number	Value	
		\$'000		\$'000	
1953	55,099	529	852, 205	2,715	
1954	39, 484	393	816,596	2, 571	
1955	123,530	909	1,019,297	3,200	
1956	160,753	1,353	1, 269, 304	3,569	
1957	87,633	844	1,104,669	3,984	
1958	51,504	524	1,112,810	4,410	
1959	38,000	382	1,449,689	5,506	
1960	87,174	730	1,040,164	4,488	
1961	79,670	640	1,127,230	4,720	
1962	77,868	744	1,441,649	5, 73	

¹ Not including drums made by some companies for their own use only.
² Starting with 1957 Steel barrels and drums were defined as being over 10 Imperial gallons capacity. Repeat shippers were defined as being made of 16 gauge material or heavier while one-time shippers were defined as being made of 18-24 gauge material, but including 28 gauge asphalt drums. Data prior to 1957 were not so defined and, as a result, are not strictly comparable with later years.

C. Metal Lath and Corner Bead, 1953-62

Year	Value	Year	Value
	\$'000		\$'000
953	2,667	1958	4,691
954	3,414	1959	4,450
955	3,664	1960	3,963
956	4,299	1961	4,118
957	4, 136	1962	4, 439

D. Metal Bottle Caps, 1953-62

Year	Value	Year	Value
	\$'000		\$'000
953	11,937	1958	14, 491
954	11, 134	1959	15,700
955	12, 172	1960	15,924
956	13, 130	1961	17,201
957	13,990	1962	17,389

TABLE 8. Shipments of Goods of Own Manufacture - All Industries - Continued E. Sheet Metal Culvert Pipe, 1953-62

Year	Quantity	Value	Year	Quantity	Value
	tons	\$'000		tons	\$*900
1953	30,348	10, 048	1958	59,600	19,634
1954	34,700	11, 205	1959	66,300	21, 296
955	46,000	14,526	1960	54,720	17,314
956	57,800	19, 188	1961	64,130	20,026
1957	56, 100	18, 786	1962	65,317	20, 265

F. Roof Drainage Equipment, 1953-62

Year	Value	Year	Value
	\$'000		\$*000
953	2, 208	1958	2,957
54	2, 537	1959	2, 704
055	3,426	1980	3, 162
56	3,485	1961	2,845
957	2,694	1962	2,728

G. Aluminum and Stainless Steel Kitchenware, 1953-62

	Value			Value		
Year	Aluminum	Stainless steel	Year	Aluminum	Stainless steel	
	\$1	000		\$"	900	
953	8, 187	1	1958	7, 293	2,388	
954	7,976	1	1959	6,409	2,029	
955	6,631	1,413	1960	5, 707	1,675	
956	6, 263	1,666	1961	4,830	1,817	
957	6,802	1,964	1962	5, 719	2,340	

¹ Not available prior to 1955.

H. Galvanized Sheets, 1953 - 62

Year	Tonnage sold ¹	Value	Year	Tonnage sold ¹	Value
		\$'000			\$'000
953	105,980	17,470	1958	192,000	32,636
954	101,000	16,526	1959	298, 951	51, 265
955	156,000	25, 426	1960	275,000	46,710
956	206, 000	34, 194	1961	328,000	54, 738
957	170,000	28, 893	1962	358,000	59, 246

Does not include approximately 2,000 tons of galvanized sheet further processed into "Roofing" in 1955; approximately 3,000 tons in 1956; approximately 3,900 tons in 1957; approximately 5,000 tons in 1958; approximately 5,400 tons in 1959; approximately 8,000 tons in 1960; approximately 7,000 tons in 1961, and approximately 6,500 tons in 1962.

TABLE 8. Shipments of Goods of Own Manufacture - All Industries - Concluded

I. Stove and Furnace Pipe, 1953-62

Year	Value	Year	Value
	\$*000		\$1000
953	2, 231	1958	3,970
954	2,318	1959	5, 063
955	2, 279	1960	5, 179
956	3, 228	1961	6,050
957	3,812	1962	4,990

J. Aluminum and Steel Roofing and Siding, 1957-62

Voca	Value		
Year	Aluminum	Steel	
	\$'00	0	
957	4, 406	4,303	
958	5,978	5, 751	
959	6, 603	6, 779	
1960	7, 782	7, 275	
961	12, 282	5, 998	
962	13, 827	6,489	

TABLE 9. Capital and Repair Expenditures, 1960-62

	Cap	ital expenditur	es	Re	pair expenditu	res		Total capital epair expenditu	76.04
	Construction	Machinery and equipment	Sub- total	Construction	Machinery and equipment	Sub- total	Construction	Machinery and equipment	Total
					\$'000				
1960	2, 570	9, 079	11,649	994	4,612	5, 606	3, 564	13,691	17, 25
1961	2, 441	8, 162	10,603	1,039	5, 679	6, 718	3, 480	13,841	17, 32
1962	2, 952	10,682	13,634	1, 253	6,691	7, 944	4, 205	17, 373	21,57

Source: Business Finance Division. - DBS.

List of Establishments, 1962

Name of firm	Location of plant
Newfoundland:	
Armco Drainage & Metal Products of Canada Ltd. W.J. Raymond	Bishop's Falls Catalina T.B.
Prince Edward Island:	
Charlottetown Metal Products Ltd.	Charlottetown
Nova Scotia:	
Drew Metals Limited Smith, H.V. Waidale Ltd. Zenith Electroplating Ltd.	Truro Shubenacadie Amberst
New Brunswick:	
Armco Drainage & Metal Products Jules Grondines Reg'd Leger Metal Workers Ltd. McDade, James Wilson & Smith	Sackville St. John Moneten Saint John St. John

List of Establishments, 1962 - Continued

Name of firm	Location of plant
Quebec:	
Accessories Manufacturers Limited	Montreal
Acme Plating Ltd.	Longueuil
Alanco Limited	Montreal
Alfa Manufacturing & Designing Ind, Allied Entreprises Limited	Montreal Montreal
*American Can Co, of Canada Ltd.	Montreal
Arco Metals Inc.	Montreal
Armco Drainage & Metal Products of Canada, Ltd.	Charny
Arrow Plating & Mfg. Ltd. Artmetwork Reg'd.	Montreal Montreal
Art Steel Products Ltd.	Mackayville
Atlantic Dry Kiln Ltd.	Rimouski
Audet, J.E., Soudures Inc. Auvents Richelieu Enr.	Québec Iberville
Aviation Products Co.	Ville St. Laurent
Bélanger & Frère Enrg.	Mont Laurier
3. & L. Stamping Co. Ltd.	Ville St. Michel
Brock Steel Corp. Canadian Aquarium Co.	Montreal Montreal
Canadian Artistic Dies Inc.	Sherbrooke
Canadian Crown Cork Company, Limited	Ville LaSalle
Canadian Kitchen & Sheet Metal Works Inc.	Montreal
Cantin, H.E., Enrg. Cassidy & Maillard Ltd,	Champigny Montreal
Cassiis & Co.	Montreal
Central Duct Work Reg'd.	St. Jean
Chatham Art Metal Works Ltd.	Montreal
Circ-Etch Company Limited	Montreal Montreal
*Continental Can Company of Canada Limited	St. Laurent
Cresswell-Pomeroy Ltd.	Granby
Crown Cork & Seal Company Ltd.	Montreal
D. & L. Sheet Metal Works Reg'd. Defender Metal Fabricators Ltd.	Ville Jacques Cartier Lachine
Delorimier Industries	Montréal-Nord
Dominion & Grimm Inc.	Montreal
Dupont, Léo	Cté Bagot
Pestern Industries	Drummondville Verdun
Engineering Products of Canada Ltd.	Montreal
ablissements Galvanart Ltée	Trois-Rivières
Expert Sheet Metal Works	Montreal
Parblanterie Générale Enr.	Etang du Nord, Montreal Montreal
Porest, Roger Inc.	Montreal-Nord
Peresteel Products Ltd.	Rivière-Des-Prairies
Fortin & Hamelin	Montréal
Fournier Steel Work Ltd. Garand & Thibault Enrg.	Black Lake Québec
G.B. Welding Inc.	Ville d'Auteuil
General Buffing Enrg.	Ville Jacques-Cartier
General Iron Works Co.	St. Michel, Montreal
General Metal Works Limited General Steel Wares Limited	Montreal Montreal
Gero Ltd.	Ville St. Michel
Hamel & Guertin Limited.	Montreal
Hochelago Metal Fabricators Inc.	Montreal
Hotel & Restaurant Sheet Metal Works Inc. Hull Ottawa Plating Ltd.	Montreal Hull
Hunter Douglas Ltd.	Montreal
Hurtsteel Products Ltd.	Montreal East
Industrial Containers Limited	Ville LaSalle
Industrial Stampings Ltd. International Cooperage Co. of Canada Ltd.	Bromptonville Bucklngham
Julien, Léo, T., Inc.	St. Malo
Kitchen Specialities Inc.	Town of Mount Royal
Labelle Kitchen Equipment Company Limited	Montreal
Lamer & Côté Reg'd. Laurentide Enamelers Ltd.	Montreal Montreal
Laurentide Metal Stamping Ltd.	St. Jérôme
Laval Sheet Metal Works Le François, S. & Fils Ltée	St. Martin
Le François, S. & Fils Litée	Quebec
L'Hoir Înc.	Lévis Lachine
Lesspik Roofing & Sheet Metal Works	Montreal
Limoges, Jean-Paul	St. Laurent
Lite, A.R. Manufacturing Co.	St-Vincent-de-Paul
Louiseville Générale Entreprise Lunn, G.J., Mfg, Co. Ltd.	Louiseville, cté Maskinongé LaSalle
Luxor Industries	Ville St. Michel
Mahon Hardware Mfg, Co. Ltd.	Montreal
MacDonald Drums Mfg. Corporation	Ville St. Pierre
MacQueen, Donald, Co. Ltd. Murtin Steel Ltd.	Montreal Montreal
Martin Steel Etd.	Montreal
Maska Galvanisé Enr'g.	St-Hyacinthe
Matal Casting & Plating Co. Inc.	Montreal
McGruer, Fortier & Meyers, Limited	Montreal St. Laurent
Mitchell, Robert, Co. Ltd.	
The state of the s	

[·] Tin can manufacturers mostly.

List of Establishments, 1962 - Continued

Location of plant

Quebec - Concluded:	
Modern Plating	Drummondville
Montmorency Corporation	Quebec
Montreal Roofing Mfg. Co. Ltd.	Montreal
North American Food Eqpt, Mfg. Ltd	Montreal Montreal
Otterburn Sheet Metal Industries	Otterburn Heights
Paterson, Wm. & Co., Inc.	Montreal
Plater's Inc.	Montreal
Plating Industries Ltd.	Ville St. Michel
Plumbing & Stainless Steel Works Ltd.	Montreal
Presto Plating Regd. Prévost, A. & D.	Montreal Richelieu
R.J. Stamping Co. Ltd.	Ville St. Michel
R. L. Metal Litée	Ville St. Michel
Riverin, S.O., & Cie Ltée	Saint Malo
Robitaille & Frère Enrg.	St-Vincent-de-Paul
Roll Up Aluminum Awnings, Ltd.	Sherbrooke Montreal
Roy Metal Works Ltd.	Montreal
Russell, Lillan, Reg'd.	Montreal
Russeil, Lilian, Reg'd. St. John Metal Stamping & Spinning Reg'd.	St. Jean
St. Lawrence Sheet Metal Works	Montreal
Savar, David & Sons Inc.	Quebec
Savard, Jean Inc.	Montreal Ville St. Michel
Small Brothers Reg'd.	Dunham
Talarico Limited	Montreal
Talbot Metai Inc.	Montreal
Teknik B.S., Inc.	Valcourt
Tripar Stamping & Mfg. Co. Inc.	Rivières Des Prairies
Tru-Way Sheet Metal Works Co. Ltd.	Ville LaSalle Longueuil
Union Screen Plate Co. of Canada Ltd.	Lennoxville
Vaccum Plasters Inc.	Montreal
Ventilateurs Lauzon Enr'g.	Montreal
Verdun Anodizing Inc.	Verdun
Vic Aluminum Ware Ltd.	Montreal
Vic Metals Inc	Victoria ville Montreal
Warmal Sheet Metals Inc.	Cowansville
Weather-Vane Aluminum Prods. Ltd.	Verdun
Ontario:	
	Toronto
Abramovitz, Louis	
Abramovitz, Louis	Terento
Acadian Platers Ltd. Accurate Machine & Tool Co.	Toronto Weston
Acadian Platers Ltd. Accurate Machine & Tool Co. Ace Metal Works	Toronto Weston Toronto
Acadian Platers Ltd. Accurate Machine & Tool Co. Acce Metal Works Achex Products Ltd.	Toronto Weston Toronto Rexdale
Acadian Platers Ltd. Accurate Machine & Tool Co. Ace Metal Works	Toronto Weston Toronto
Acadian Platers Ltd. Accurate Machine & Tool Co. Ace Metal Works Achex Products Ltd. Acme Electroplating Co. Ltd. Acme Stainless Steel Works Acme Steel Co.	Toronto Weston Toronto Rexdale Toronto Cooksville Scarborough
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^{*} Tin can manufacturers mostly.

Location of plant

Name of firm	
Ontario - Continued;	
Beadex of Canada Ltd.	Brantford
Beaver Electro Plating Co.	Toronto
Belleville Platers	Belleville
Bendal Machine Co. Ltd.	Brampton
Bevel Stamping Co. Ltd. Bishop Sons & Co. Ltd.	Etobicoke Toronto
Blair Metal Products	Woodstock
Boniface Sheet Metal	Hamilton
*Borden Co. Ltd	Ingersoll Brantford
Brantford Soda Fountain Co.	Brantford
Bri-Cad Electro Platers Ltd.	Toronto
Bristol Cadmium Plating Co. Ltd.	Totonto Scarboro
Britex Polishing Broome, J. Ward Ltd.	Weston
Broome Porcelain Co.	Dixie
Bruce Pressed Steel Products Ltd.	Toronto
Buckley's Sheet Metal Mfg. Ltd.	Scarborough Burford
Butler Metals Ltd.	Preston
Calco Metal Mfg.	New Sarum
Cametoid Limited	Ajax London
Canadian Business Machines Ltd.	Toronto
Canadian Calendar Metal Company	Toronto
*Canadian Canners Ltd.	Burlington Hamilton
Canadian Fanner Ltd	Windsor
Canadian Rogers Eastern Ltd.	Toronto
Canadian Steel Strapping Co. Ltd.	Scarborough
Canadian Thermos Products Ltd	Scarborough Windsor
Carleton Culvert Co. Ltd.	Bells Corners
Carrière, Fred & Son	Eastview
Century Engineering Co. Chadwick's Ralph, Plating Works	Toronto Toronto
Chatham Plating	Chatham
Chicago Metallic Western Hemisphere Ltd.	Toronto
Clark, John W., Ltd.	Toronto
Climax Plating	Toronto
Coleman Metal Products	Toronto
Collins Never Fail Products Limited	Hamilton Toronto
Columbia Metal Rolling Mills Ltd.	Rexdale
Comco The Electric Plating Co.	Uxbridge
Commando Chrome Plating Co. Ltd.	London Scarborough
Condor Manufacturing Company	Toronto
*Continental Can Co. of Canada, Limited	New Toronto
*Continental Can Co. of Canada, Ltd.	Toronto
Cornell Engineering Company Limited	Toronto Hamilton
Corrugated Pipe Co.	Stratford
Court Galvanizing Ltd	Guelph
Crown Cork & Seal Company, Limited Danor Mfg. Co.	Toronto Gorrie
Day Co, of Canada, Ltd.	Rexdale
Debon Developments Limited.	Toronto
Decedar Brothers Ltd	Wallaceburg Leaside
Dominion Al-Chrome Corp.	Toronto
Dominion Electroplating	Midland
Doris, C.P. Sheet Metal	Peterborough Toronto
Dovercourt Electro-Plating Co. Ltd. Dow, Thomas Electroplating Ltd.	Ft. William
Dundas Sheet Metal Work Ltd.	Toronto
Dura-Chrome Ltd. Duro Aluminum Ltd.	Wallaceburg Hamilton
Duro Metalware Limited	Hamilton
Eastern Steel Products Company	Preston
East Side Plating Co. Ltd,	Windsor Toronto
Elan Tool & Die Ltd.	Chatham
Electronic Coating	Galt
El-Mech Tools Ltd.	Welland Dundas
El-Met Parts Ltd. Embro Welding & Steel Fahrlcatlon	Embro
Equipment Manufacturing Co. Ltd.	Toronto
Erno Mig. Co. Ltd.	Toronto
Etmeco Limited	Toronto
Fwing Robert D	Hamilton
Fabricated Steel Products (Windsor) Ltd.	Windsor
F.D.R. Tool & Machine Co.	Preston
Flexi-Top Products. Frost Metal Products Ltd.	Hamilton
General Steel Wares, Limited	Toronto
Giosta Mfg. Co. Ltd.	Port Hope Port Colborne
Graham Sheet Metal Ltd.	1 oir Comorne

[•] Tln can manufacturers mostly.

Location of plant

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Millbrook Industries. Millbrook Milne Steel Fabricating Co. Milrod, Ralph, Metal Products Ltd. Mitten Industries Limited Modern Building Products Co. Modern Building Products Co. Modern Plating Ltd. Monarch Master Manufacturing Ltd. Monarch Master Manufacturing Ltd. Monarch Master Manufacturing Ltd. Mongery Metal Products Co. Moyer & Diebel Metalcrafts Limited Mundet Cork & Insulation Limited Munphy Sheet Metal Munphy Sheet Metal Nagy, Alex J. & Sons Ltd. National Hard Chrome Plating Co. National Steel Drum Ltd. National Steel Drum Ltd. Natweld Steel Products Ltd. Neo Chrome Ltd. Neo Chrome Ltd. Neo Chrome Ltd. Neo Chrome Ltd. North American Containers Ltd. North American Containers Ltd. North American Containers Ltd. North American Containers Ltd. Operation Reliance Inc. Paramount Plating Toronto Paramount Plating Potentian Toronto Paterson Plating Peterborough Plating Peterborough Plating Peterborough Plating Peterborough Plating Peterborough Plating Peterborough	Metropolitan Metal Spinning Co. Ltd.	
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Moyer & Diebel Metalcrafts Limited	Montgomery Metal Products Co.	Revdale
Munro Metal Products Limited Hamilton Murphy Sheet Metal Preston Nazy, Alex J. & Sons Ltd. Cooksville National Hard Chrome Plating Co. Toronto National Steel Drum Ltd. Petrolia Natweld Steel Products Ltd. Rexdale Neo Chrome Ltd. Hamilton Newman, S.H., Company Ltd. Toronto Norseman Weiding Ltd. Toronto Northerm Plating Co. Ltd. Toronto Northern Plating Co. Ltd. Toronto Oak Stamping Co. Windsor Ontario Culvert & Metal Prod. Ltd. Waterloo Operation Reliance Inc. Toronto Patterson Plating Toronto Patterson Plating Toronto Pedidar People Limited Oshawa Penco Mfg. Co. St. Catharia Peterborough Plating Co. Ltd. Peterborough	Moyer & Diebel Metalcrafts Limited	Jordan Station
Murphy Sheet Metal	Mundet Cork & Insulation Limited	Toronto
National Hard Chrome Plating Co. National Steel Drum Ltd. Natweld Steel Products Ltd. Newman, S.H., Company Ltd. Niagara Iron Works Norseman Weiding Ltd. North American Containers Ltd. Northern Plating Co. Ltd. Oak Stamping Co. Ontarlo Culvert & Metal Prod. Ltd. Operation Reliance Inc. Paramount Plating Patterson Plating Toronto Patterson Plating Toronto Patterson Plating Toronto Patterson Plating Peterborough Plating Co. St. Catharian Peterborough Plating Co. Ltd.	Murphy Sheet Metal	Preston
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Natweld Steel Products Ltd. Rexdale Neo Chrome Ltd. Hamilton Newman, S.H., Company Ltd. Toronto Niagara Iron Works Toronto Norseman Weiding Ltd. Toronto North American Containers Ltd. Aylmer Northern Plating Co. Ltd. Toronto Oak Stamping Co. Windsor Ontario Culvert & Metal Prod. Ltd. Waterloo Operation Reliance Inc. Toronto Paramount Plating Toronto Patterson Plating Toronto Pediar People Limited Oshawa Penco Mfg. Co. St. Cathalian Peterborough Plating Co. Ltd. Peterborough	National Hard Chrome Plating Co.	Toronto
Newman, S.H., Company Ltd.	Natweld Steel Products Ltd.	Rexdale
Niagara Iron Works	Neo Chrome Ltd.	Hamilton
Norseman Weiding Ltd.		
North American Containers Ltd.	Norseman Weiding Ltd.	Toronto
Oak Stamping Co. Ontario Cuivert & Metal Prod. Ltd. Operation Reliance Inc. Paramount Plating Patterson Plating Pediar People Limited Penco Mfg. Co. Peterborough Plating Co. Ltd. Peterborough Plating Co. Ltd. Peterborough Plating Co. Ltd.	North American Containers Ltd.	Avlmer
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Patterson Plating Toronto Pediar People Limited Oshawa Penco Mfg. Co. St. Cathurin Peterborough Plating Co. Ltd. Peterborough	Operation Reliance Inc.	Toronto
Pedlar People Limited Oshawa Penco Mfg. Co. St. Cathuling Peterborough Plating Co. Ltd. Peterborough		
Penco Mfg. Co. St. Catharia Peterborough Plating Co. Ltd. Peterborough	Pedlar People Limited	Oshawa
Peterborough Plating Co. Ltd. Peterborough	Penco Mfg. Co.	St. Catharines
Toronto	Peterborough Plating Co. Ltd.	Peterborough
	A 1020 ENCOSIOT LOSING MOO.	Toronto

List of Establishments, 1962 - Continued

Name of firm	Locat	ion of plant
()ntario - Concluded:		
Porcelain & Metal Products Ltd.	Orillia	
Pratt, J. Murray, Mfg. Co. Ltd.	Barrie	
Precision Platers Precision Vacuum Products Ltd.		
Premier Tool & Die Ltd.	Toronto	
Preston Metal & Roofing Products Ltd. Price & Knott Mfg. Co.	Preston Toronto	
Pritchard Plating	London	
Progressive Platers Ltd. Provincial Alum, Awning Corp. Ltd.	Toronto	
Rapid Plating Works	Toronto	
Rauscher Plating Ltd. Reininger R. & Son Ltd.		
Reixinger & Schultes Mfg. Co.	Markham	
Reliable Sheet Metal Mfg. Co. Rheem Canada Ltd.		
Riecke Metal Products Canada Ltd.	Brampton	
Riexinger & Schultes Rideau Aluminum & Steel Ltd.		
Riverside Sheet Metals Ltd.	Riverside	
Robert Sheet Metal Co. Ltd. Robertson Irwin, Ltd.		
Robertson, Irwin (Robertsteel (Canada), Mfg. Division)		
Rosco Metal & Roofing Products Ltd. Sasco Tubes Limited		
Scancraft Plating Ltd.	Toronto	
Scarboro Sheet Metal Works Seabrook Manufacturing Co. Ltd.		
Seal-Spout of Canada Ltd.	Scarboro	
Selkirk Metal Products (Eastern) Ltd.	Brockville	
Simon's Eastern Mfg. Co. Ltd. Sol Friendly Sheet Metal Works Ltd.	Waterloo Toronto	
Soren Manufacturing Co. Ltd.	Toronto	
Sovereign Housewares Ltd.		
Stainless Steel Products Ltd.	Brantford	
Stamped & Enamelled Ware, Limited	Hespeler Toronto	
Standard Plating Co.	Ottawa	
Stanley Steel Co. Ltd. Star Electro-Plating Co. Ltd.		
Star Sheet Metal Mig. Co.	Toronto	
Steelath Co. Ltd. Sterling Electro-Plating Co.		
Sterling Radiant-Devices Ltd.	Toronto	
Sudbury Regent Plating Co. Ltd. Sun Polishing & Buffing Co.	Sudbury Toronto	
Sun Tool & Stamping Co. Ltd.	Windsor	
Superfinish Co. Ltd. Super Plating Co. Ltd.		
Supreme Aluminum Industries Ltd.	Toronto	
Supreme Anodizing Ltd. Supreme Metal Work & Stamping Co.	Toronto Ottawa	
Thor Industries Ltd.	Toronto	
Thorn, W.J., Ltd. Toronto Cadmium Plating & Tinning Co. Ltd.	London Toronto	
Toronto Plating Co.	Toronto	
Toronto Specialties Mfg. Co. Trldon Manufacturing Ltd.	Toronto Hamilton	
Tri-SureProducts, Ltd.	St. Catharines	
Tudhope Specialties Ltd. Tweed Steel Works Ltd.		
Twin-Cee Limited	Georgetown	
Tyrell, Evert United-Carr Fastener Co. of Canada Ltd.	Oakville	
United Electro-Piaters	Toronto	
Vacuum Metallizing Limited	Toronto	
Vanguard Aluminum Vent Rite Mfg.	Toronto	
Verral Metal Fahricators Ltd.	Scarborough	
Verspeelt Buffing Vulcan Containers Ltd.	Tecumseh Rexdale	
Weatherguard Awnings Prods. Ltd.	Scarhorough	
Weber, J., Sheet Metal Works Webster, Thomas K., Ltd.	Ottowa	
Wentworth Industries Limited	Stoney Creek	
Westeel Products Ltd. Wheeler & Bain Limited	Toronto	
White, David, Sheet Metal Products	Toronto	
Wickware-Stackbin, Ltd. Windsor Chrome-Plating Co.	Windsor	
Wood, John, Company Ltd.	Toronto	
Wright, H.G., Mfg. Co. Ltd. Wrought Iron Range Co. Ltd.	Hamilton Toronto	
X-Pert, Metal Finishing Ltd.	Hamilton	
York Electro Plating Zenith Electroplating Ltd.	Thorold	
Annual Property Secretary Control of the Control of	Toronto	
Manitoba:		
Acme Metal Products Ltd.	Winnipeg	
Armco Drainage & Metal Products of Canada, Ltd. Arnett Co. Ltd.		
Atten Co. Ma.	Winnipeg	

List of Establishments, 1962 - Continued

Name of firm	Location of plant
Manitoba - Concluded:	
Cadorth Plating Co. Canadian Corrugating & Stamping Company Ltd.	
Canadian Rogers Western Ltd.	
Coates, Frederick A.	Morris
Commercial Plating Ltd. Custom Sheet Metal Works	St. James St. James
Dominion Sheet Metal Co.	Winnipeg
Elite Metal Products Ltd.	
Empire Sheet Metal Manufacturing Co. Ltd. Engel Sheet Metal Mfg.	
Great West Metal Products Ltd.	Winnipeg
Henn-Rich Manufacturing Ltd. Man-Men Industries Ltd.	
Master Metal Products Co.	Winnipeg
McDonald Fros. Sheet Metal	
Metal Industries Ltd. Monarch Plating Co. Ltd.	
Provincial Metal & Heating Co.	Winnipeg
Rosco Metal Products Ltd. *Seikirk Metal Products Ltd.	
Sheffield Silver Plating Co. Ltd.	Winnipeg
Westeel Products Ltd.	
Western Furnace & Roofing Ltd. Western Standard Fittings Ltd.	
Wood, John. Company, Limited	Winnipeg
Saskatchewan:	
Allied Heating Supply Ltd.	Reģina
*Armco Drainage & Metal Prod. of Canada Ltd.	Regina
Fulco Metal Products Ltd.	
Harding Industries Ltd. Prairie Metal Products Ltd.	
Symon's Metalworkers Ltd.	Rocanville
Westeel Products Ltd	
Zol-Mark (Canada) Ltd.	
Alberta:	
Armco Drainage & Metal Products of Canada Ltd.	Edmonton
Barry Sheet Metal Company, Limited	Edmonton
Calgary Piating Works	
Capital Plating Edmonton Ltd. Cone Water Heaters Ltd.	Edmonton Calgary
Continental Can Co. of Canada Ltd.	Edmonton
Daam Galvanizing Co. Ecco Heating Products Ltd.	
Edmonton Silver Plating Co, Ltd.	Edmonton
Edmonton Tinsmith Supplies Ltd.	
Expanded Metal Co. of Canada Ltd. Frontier Steel Industries Ltd.	
Industrial Sheet Metal Products	Calgary
International Cooperage Co. of Canada Ltd. McCready Products Ltd.	
McKinley & Taylor Ltd.	Edmonton
Mamco Chrome Metal Fabricators and Roofing Limited	
Regal Sheet Metal	Calgary
Rheem Canada Limited	Clover Bar
Robertson-Irwin Ltd. Rosco Metal Products (Alberta) Ltd.	Calgary
Rosco Metal Products Limited	Edmonton
Superior Awnings Ltd. Westeel Products Ltd.	
Westeel Products Ltd.	Edmonton
Western Sheet Metal Products Westland Metals Ltd.	
ACONOMIA ULICANO TIPE	
British Columbia:	
A.A.A. Aluminum Products	
A.B.C. Plating Co. Ltd. A.LS. Awning Limited	
Ace Sheet Metal Works	Vanderhoof
*American Can Co. of Canada Ltd.	Vancouver Vancouver
Armco Drainage & Metal Products of Canada Ltd. Bartlett Sheet Metal Works Ltd.	Vancouver
B.C. Coil Strip Products Ltd.	S. Burnaby
Bumper Platers Burgess Bead Ltd.	Vancouver North Vancouver
Coast Coppersmiths	Vancouver
Columbia Metal Rolling Mills Ltd. Columbia Sheet Metal Products Ltd.	
*Continental Can Co. of Canada Ltd.	Burnaby
Cranberry Sheet Metal Ltd.	Cranberry Lake
Expanded Metal Co. of Canada Ltd.	
Fisher Metal Products	Vancouver
Grant, E.H. & Son Ltd. Hoberth Culverts & Metal Products	
HODERNI CULVELES OF MEANT LIOUNCES	THE PARTY OF THE P

^{*} Tin can manufacturers mostly.

List of Establishments, 1962 - Concluded

Name of firm	Location of plant		
British Columbia - Concluded:			
British Columbia — Concluded: Hudson Plating Co. Ltd. Hunt, F.W. Manufacturing Co. Industrial Chrome & Metallizing Kenmade Sheet Metal Ltd. Kent Metal Products Ltd. Kingston Sheet Metal Works Ltd. Leland Mfg. Co. Ltd. McRae Metal Stamping Metalcraft Limited Metal & Wood Products (1958) Ltd. Model Sheet Metal Works Monarch Steeicraft, Ltd. Nelsen Sheet Metal Ltd. Nelsen Sheet Metal Ltd. Nelson Blower Co. Ltd. Nesco Aluminum Ltd. Pacific Pipe & Flume Limited Peerless Metal Products Ltd. Port Metal Products Ltd. Rosco Metal Products Ltd. Rosco Metal Products Ltd. Steveston Sheet Metal Works Surper Sheet Metal Works Surper Sheet Metal Thom, W.A., Sheet Metal Works Ltd. Tidy, D. Welders Ltd. Treminal Sheet Metal Works Limited United Industrial Plating Limited Vancouver Island Platers Vancouver Island Platers Vancouver Spinning Van Metal Products, Ltd. Victoria Plating	Burnaby Prince George Vancouver Vancouver Victoria Vancouver Burnaby Vancouver Vancouver Victoria Vancouver Penticton Vancouver Penticton Vancouver Vancouver Penticton Hammond Vancouver Victoria Vancouver Vancouver Vancouver Vancouver Vancouver Victoria Vancouver		
Vulcan Containers (Canada) Ltd. Westeel Products Ltd. Western Coastwise Service Ltd. Westland Metals Ltd. Westmetco Sheet Metal Ltd.	New Westminster Vancouver Vancouver Vancouver		
William, Stan Mfg. Co. Ltd.			

^{*} Tim can manufacturers mostly.

EXPLANATORY NOTES

This report is one in a series of about 140 publications which present the results of the 1962 Census of Manufactures. Most reports in this series refer to specific industries, but there are summary reports for Canada and the provinces and special reports on geographical distribution and on type of ownership and size of establishments.

With the publication of the results of the 1962 Census of Manufactures, the Bureau has completed a major revision in the classification and concept of its annual census of manufacturing establishments. Because of its size and complexity, this project had to be carried out in three stages. The first stage was the change in classification and the results of the 1960 Census, together with the re-compilation of the 1957, 1958 and 1959 Censuses were published in the 1960 reports on the basis of the revised Standard Industrial Classification. This part of the project was confined entirely to a re-coding of existing reporting units. The second stage consisted of the implementation of the new definition of the reporting unit i.e. "establishment" as it applied to manufacturing activities of manufacturing establishments (See following note on "Establishment"). Results of the 1961 Census reflected this change in concept and, in order to provide comparability of data for recent years, the 1961 reports contained principal statistics on the basis of the new establishment definition for years back to 1957.

The third stage which was the extension of the definition of the establishment to cover total activities of manufacturing establishments is reflected in the statistics for 1961 and 1962 contained in this report. This full implementation of the new definition of the establishment has resulted in an extension of the data to non-manufacturing activities of manufacturing establishments and in additional changes in the 1961 statistics of manufacturing activities. Statistics on manufacturing activities will continue to be shown separately as in the past but, beginning with 1961, data on all operations (total activity) of manufacturing establishments will also be given. By definition "total activity" relates to all operational data and excludes such non-operational items as rent, interest and dividends. In addition, statistics on man-hours paid will be included as part of the regular series of industry statistics. For many industries, adjustments and revisions were made to the 1961 data on manufacturing activities which were published during the second stage to bring them in line with reporting procedures followed in the 1962 Census and to reflect the final application of the new concept. The 1961 statistics on manufacturing activities contained in this report are thus not entirely comparable with those published in the 1961 reports. However, the 1961 statistics are shown in this publication in both their original and revised forms in order to provide a link with the immediate past. A more complete account of recent changes and additions and brief descriptions of the principal industry statistics are given in following sections of these notes.

Standard Industrial Classification

The revised Standard Industrial Classification which was introduced with the 1960 Census of Manufactures and applied to the results of the 1957, 1958 and 1959 censuses provides for a breakdown of the manufacturing universe into 140 industries arranged in 20 major groups. Custom Tailoring Shops is the only industry class in the Manufacturing Industries Division of the classification which is not covered in the annual Census of Manufactures. It is surveyed as part of the Decennial Census of Merchandising and Service Establishments. Of the 140 "three-digit" industry classes in the Manufacturing Industries Division, 21 are further broken down into 67 "four-digit" sub-classes. With the exception of the Wood Preservation and Sound Recording industries, the figures for which are at present confidential and have to be included with those of related industries, the statistics for all of the "four-digit" sub-classes are published regularly. Thus, at the Canada level, principal statistics are compiled for 183 industries. These cannot all be published separately by province because of the confidential nature of the data in certain provinces.

Reporting establishments are classified or allotted to specific industries in the classification system on the basis of the value of principal products made or shipped. In general, establishments primarily engaged in repair work (Shoe Repair Shops, Motor Vehicle Repair Shops etc.) are not included in manufacturing industries. Exceptions are establishments primarily engaged in furniture, ship, boat, aircraft and railroad rolling stock repairs which are classified to the manufacturing industries producing the products involved. Establishments primarily engaged in assembling parts into complete units have always been included in manufacturing industries

Full details concerning the revised classification system are contained in the Standard Industrial Classification Manual, Catalogue No. 12-501, which is available from either the Queen's Printer or the Dominion Bureau of Statistics.

It should be noted that two new industries (Poultry Processors and Dental Laboratories) and three new groups of establishments (book publishers in the Publishing Industry, electro-plating establishments in the Metal Stamping, Pressing and Coating Industry and prescription branches in the Ophthalmic Goods Manufacturers Industry) have been included in the 1961 (revised) and 1962 Census statistics and will continue to be included thereafter. They were surveyed for the first time in the 1960 Census (1961 Census in the case of prescription branches) in line with the revised classification but, since they did not represent new production, they were removed from the 1960 and 1961 compilations published in the 1961 Census reports in order to provide complete comparability of data over the period 1957-61. Statistics for this period are repeated in the 1962 reports to supply a link with the revised 1961 data and the new 1962 statistics.

Establishment

The reporting unit in the Census of Manufactures is the **establishment**. The majority of establishments are firms, but many firms have more than one manufacturing establishment. Such firms are requested to submit a separate Census of Manufactures report for each manufacturing establishment which can meet the reporting requirements described below.

Beginning with the 1961 Census of Manufactures the establishment is defined as follows:

"The smallest unit which is a separate operating entity capable of reporting all 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, Inventories, Shipments or sales."

Following is a description of the main features of the new establishment concept introduced in the 1961 Census, how they differ from those of the old "activity" concept and the steps taken to correct for breaks in continuity.

(a) The establishment is to be distinguished from smaller subdivisions or departments which do not have records that permit them to report all items required of an establishment. Prior to 1961, some establishments were required to submit two or more separate reports when they were engaged in activities which were classifiable to different industries. Beginning with 1961, separate reports for such activities are required only in cases where accounting records can provide the necessary input and output elements of principal statistics. Special reporting arrangements were made with respondents when the acceptance of combined reports would have seriously affected the statistics for particular industries or areas. Where continuity of industry statistics was affected by this change in reporting procedures, adjustments to the data were made back to 1957 in order to maintain comparability of the series for recent years.1

(b) A manufacturing establishment is typically a factory, mill or plant principally engaged in manufacturing activities. Prior to 1961, the Census of Manufactures attempted to cover the manufacturing activities of all establishments, whether or not they were primarily engaged in manufacturing. Beginning with the 1961 Census, establishments (accounting entities) which are not primarily engaged in manufacturing are no longer included as manufacturing establishments in the basic industry statistics.

Again, adjustments were made to reflect the removal of such reporting units for the period 1957-60. These reporting units are now listed as establishments in other Bureau surveys, such as Wholesale Trade, Construction etc. This has resulted in a somewhat smaller universe represented by the Census of Manufactures. In terms of overall 1960 Census results, the number of establishments transferred to other industries totalled 2,786 or 8% but these represented only 0.7% of total employment and of total value of shipments of manufactured products. In order, however, to maintain complete coverage of certain commodity items produced mainly in manufacturing establishments, many non-manufacturing establishments are now surveyed by the Industry Division for commodity shipments only and the latter are included in those tables of industry reports showing shipments of certain commodities "from all industries".

(c) A manufacturing establishment may be, and often is, engaged in other activities in addition to its principal manufacturing activity. Prior to 1961 the main emphasis in the Census of Manufactures was on manufacturing activity. Beginning with 1961, each establishment reports on all the activities carried out within its accounting boundaries (except income from investments such as rent, interest and dividends) and data on different activities (manufacturing, trading in goods not of own manufacture, construction by own labour force, revenue from services etc.) are requested separately. However, the statistics published in the 1961 reports were confined to manufacturing activity only in order to maintain comparability with previous years and to permit a more thorough audit of the new data. The 1962 reports contain principal statistics on total activities of manufacturing establishments for 1961 and 1962 with the main elements of manufacturing activity shown separately as in the past. It should be noted that the statistics for separate activities are not completely consistent. Some respondents cannot distinguish in their records materials, shipments and inventories relating to own manufacturing activities from those relating to goods not of their own manufacture or to other activities and can report operational data in total only under manufacturing activity. This situation has always existed, however, and is not considered important enough to invalidate the use of the data in the measurement of manufacturing as an "activity". The values assigned by the respondent to materials and shipments of own manufactured goods include costs in varying degrees that relate to internal (to the establishment) transportation, warehousing and selling activities, but it is not possible to make adjustments to arrive at a uniform valuation for manufacturing activity only; although valuation at the establishment "boundary" must be accepted. the items valued under manufacturing activities still relate, in most cases, to "goods of own manufacture". In the case of employment only data on manufacturing production workers and manufacturing man-hours can be assigned, in total, to manufacturing activity; administrative and office employees can seldom be allocated to separate activities.

¹ Most of these adjustments were made when the results of the 1961 Census were being compiled. Since publication of these results in the 1961 reports additional adjustments were made to the 1961 data, as noted earlier, and these are reflected, where applicable, in the revised 1961 statistics contained in this report.

Complete consistency, therefore, can be obtained only at the "all operations" (total activity) level, and for studies or statistical measures requiring accurate co-ordinated data, the "total" statistics should be used.

(d) Additional changes resulted from intensive editing and follow-up consistent with the introduction of the new concept. An example of such changes is the provision for the elimination, in total, of sales taxes and outward transportation charges from value of shipments. Prior to 1961, although the value of shipments for each product was requested excluding taxes and transportation charges, no allowance had been made for the reporting of these items in total when the respondents' records did not permit their deduction from the values of the individual products. Another example is a change in the valuation of shipments where, prior to 1961, a manufacturing company operating warehouses or sales outlets was reporting value of shipments in terms of an estimated manufacturer's price in accordance with the old activity concept, even though his records were not kept on this basis. Since the accounting boundary in such cases extends to distribution operations, the respondent was instructed in 1961 to report shipments at the final selling price in order to obtain more realistic and accurate data.2 Adjustments were made to the value of shipments for the period 1957-60 to reflect such changes and maintain continuity of the shipments data. Since no actual data to make these corrections were available for back years, 1961 adjustment ratios were applied to the previous years for each industry affected, on the assumption that the valuation changes in 1961 applied in equal proportions to the preceding period.3

(e) The new concept also demands that inventories held apart from plant be included with plant inventories if establishment boundaries extend to warehouses and sales outlets. Prior to 1961, compilations took into account only the inventories held at plant. In this case, however, most of the missing data were available from supplementary questions in the Annual Census and from the Monthly Inventories and Shipments Survey and actual corrections could be made for previous years.

See footnote 1.

(f) Prior to 1961 the Census of Manufactures did not have complete coverage of head and administrative offices and had never surveyed separate sales offices, warehouses or laboratories operated by manufacturing firms. Beginning with the 1961 survey, complete coverage of these auxiliary units was effected. In the past the employment and salaries and wages of those head and administrative offices that were surveyed were either coded in total to the industry in which the greatest portion of the company's manufacturing activities was classified or else, in the case of certain large multi-unit firms with establishments in several industries, were pro-rated among the different industries involved. In the original 1961 statistics published in 1961 reports, the same coverage and treatment of head offices was applied to maintain comparability over the 1957-61 period. Beginning with the revised 1961 statistics, all head offices and auxiliary units are covered and are processed according to the methods described below.

1. Single-Establishment Companies

In the great majority of cases central administrative and executive personnel of companies consisting only of one establishment are generally located at the site of the manufacturing plant and are automatically included in the plant reports. Where head offices and auxiliary units are geographically separate from plant locations and employ a sizeable number of workers they are surveyed on special questionnaires.

Separately located head offices, sales offices, administrative offices and other separate auxiliary units (laboratories, warehouses, etc.) do not usually constitute separate establishments for purposes of industry statistics since they do not normally generate operational revenues but give rise only to costs of operation (mainly salaries and wages) which make up part of the selling price of manufactured products and which are thus included in the value of shipments or sales. Where such units belong to single-establishment companies, they will be considered as extensions of the establishment's boundaries and their operations consolidated with the establishment's total activity.

2. Multi-Establishment Companies

In the case of companies with more than one establishment the following rules are applied:

- (i) Where all the establishments of a company are classified to the same (three-digit) industry, the head office and other auxiliary units are coded to that same industry.
- (ii) Where the establishments of a company are not all classified to the same (three-digit) industry but are coded to different industries, or industries in different industry groups or even different divisions

² Some manufacturing firms operate sales branches or selling warehouses as separate sales establishments for which complete accounting records of receipts, expenses, employment and sales are maintained. In such cases the plants, in effect, "sell" to the sales outlets on much the same basis as they would to independent buyers. The value of plant shipments is based on factory prices and the "boundary" of the manufacturing establishment does not extend beyond the plant. The sales outlets in such cases constitute separate sales establishments and are classified to wholesale or retail trade. Some sales outlets of manufacturing firms, although they physically handle products of the plants, do not maintain separate accounts and are generally treated for statistical purposes as extensions of manufacturing operations. Special arrangements were made for separate reporting in a few cases where the treatment of such outlets as manufacturing extensions would seriously affect the significance of statistics for particular manufacturing and trade industries.

⁴ See footnote 2 for exceptions.

of the Standard Industrial Classification, the inclusion of data for head office and auxiliary units in any one of the (three-digit) industries concerned would distort the relationship between items of principal statistics. In such cases, the auxiliary units are coded at the group (two-digit) level in tabulations of industry statistics. Where multi-establishment companies cut across group or major division lines of the Classification, the head office and auxiliary units will be coded to the (two-digit) industry group in which the major part of the company's operations are classified. Although this may result in some distortion of (two-digit) industry group statistics it will eliminate distortion within groups as it will leave statistics at the (three-digit) industry level free of these company-wide data.

Period Covered

Respondents are asked to submit figures for the calendar year, if at all possible, and most reports are on this basis. Financial year reports for periods differing from the calendar year are accepted in instances where respondents find it impossible to supply calendar year data from accounting records. However, the data on employees, salaries, wages and man-hours are requested on a calendar year basis in all cases.

When establishments are operated for only a portion of a year, a report is required covering the period of operation.

Working Owners or Partners

Beginning with the revised 1961 statistics working owners and partners of unincorporated businesses are shown as a separate category in the principal statistics and are neither included in the number of employees nor in 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. In all previous reports of the Census of Manufactures these workers were included as part of the number of administrative and office employees and their withdrawals were included as part of salaries. Withdrawals are defined as amounts withdrawn by owners or partners for normal living expenses, excluding withdrawals for payment of income tax.

Number of Establishments

The number of establishments represents the number of operating units (accounting entities as per the new definition of the establishment) for which separate reports are submitted. Head offices located apart from establishments and which are surveyed separately and separate sales and administrative auxiliaries that are treated as extensions of manufacturing activities are not included in the establishment count. However, the operational statistics (employment, salaries etc.) of such auxiliary units which are coded at the "three-digit"

level are included in the principal statistics of industries coded at the same level; those units coded at the "two-digit" level are included with the statistics for groups of industries.

Employees

As noted above, the number of working owners and partners are excluded from the number of employees, beginning with the revised 1961 statistics. This change brings the definition of "employees" in the Census of Manufactures in line with that of "employees" in the Bureau's monthly Employment Survey and with that of "paid workers" in the Bureau's Labour Force Survey. For purposes of historical comparisons, the number of working owners and partners should be added to total employees (beginning with the revised 1961 data) in order to correspond with the figure of "total employees" published in previous reports concerned with the Annual Census of Manufactures.

In addition to production and related workers engaged in manufacturing activities, total employees include administrative, office, sales and distribution workers as well as any production workers employed in non-manufacturing activities such as construction undertaken for the use of the establishment by its own employees (when these are treated as a separate work force) or logging (mostly in connection with sawmills or planing mills). Number of employees represents as closely as possible equivalent annual full-time employment. Adjustments are made when reported figures indicate the existence of part-time or seasonal employment.

Administrative and office employees include all executive and supervisory officials such as presidents, vice-presidents, controllers, secretaries, treasurers etc., together with managers, professional, technical and research employees, superintendents and factory supervisors above the working foreman level, and clerical staffs. Also included are employees in activities such as advertising, credit collections, purchasing, personnel, legal, medical etc. Sales and distribution workers include office personnel whose salaries are charged to selling expense, travelling salesmen, driver salesmen, truck drivers and their helpers, etc. They exclude persons working on a commission basis who are not considered regular employees.

Production and related workers in manufacturing activities include, in addition to those engaged in processing and assembling, those employed in storing, inspecting, handling, packing, warehousing, etc. They also include employees in related activities such as maintenance, repair, janitorial and watchman services. Working foremen doing similar work to that of employees they supervise are also included. Production workers employed in non-manufacturing activities such as construction undertaken for the use of the establishment, logging

employees or outside piece-workers employed in certain industries are excluded from the number of production and related workers but are part of the total number of employees in those industries.

Production and related workers 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 twelve. This procedure is followed even though the plant did not operate in all months in order to derive equivalent annual full-time employment. The numbers are somewhat affected by turn over, in that employment is overstated when an employee changes employment within the same industry during a pay period. Other categories of workers are reported in the form of annual averages. Figures on employment and man-hours refer to the calendar year whether or not some establishments report other data on a financial year basis.

Man-hours of production and related workers in manufacturing activities 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.

Salaries and Wages

Salaries and Wages refer to gross earnings of the employees described above, 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 workers' earnings. Payments for overtime are included.

Wages refer to amounts paid to production and related workers engaged in manufacturing operations as defined above. Salaries refer to amounts paid to all other categories of employees including relatively small numbers of production workers engaged in construction and extractive operations or who are employed as outside piece-workers. Figures on salaries and wages refer to the calendar year whether or not some establishments reported other data on a financial year basis.

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.

Materials and Supplies

(a) Used in manufacturing activities. Figures represent quantities and laid-down cost values, at establishment, of materials, supplies and purchased components owned and used during the year in manufacturing activities and related processes. The statistics represent only commodity items or physical goods (costs 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. Respondents are required to report materials and supplies used not purchased. 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) Purchases for resale as such. Figures represent the 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.

(c) 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. Value of construction and repair work done by outside contractors is 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 establishmentoperated cafeterias and lunch counters, first aid medical supplies, laboratory supplies etc.

Shipments

In general the figures represent revenue from all production, sales, services and related activities of reporting establishments. Non-operating revenues such as rent, interest and dividends and the sale of used fixed assets are excluded.

(a) 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 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. (See notes on "Establishment").

Such shipments are net of returned goods, and value figures at the establishment exclude discounts, returns, allowances, sales taxes and excise duties, returnable containers, and charges for outward transportation by common or contract carriers. Transportation or delivery expenses incurred by the reporting establishments' own carriers are not deducted.

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 form B.13 "Customs Canada, Export Entry" has been completed, are treated as shipments.

In four industries, viz. Fabricated Structural Metal Industry. Aircraft and Parts Manufacturers, Railroad Rolling Stock Industry and Shipbuilding and Repair, where work on principal products extends over a relatively long period, the value of production, rather than the value of shipments, is recorded. For these industries value of production is computed from the value of deliveries of complete units during the year plus the value of work done during the year on unfinished units less the value of work done in previous years on units delivered in the year under review. Adjustments to the value of shipments are also made for firms in these industries and in some other industries which operate on the basis of progress payments. The latter are treated as sales and not as inventory, so that for firms which use a progress payments account, an adjustment to the value of shipments is made for the net change in this account during the year.

(b) Shipments of goods not of own manufacture

These figures represent the net selling value at the establishment (less discounts, returns, allowances, sales taxes and excise duties 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 goods on a rental basis value of shipments represents the book value of such goods. All sales of consignment goods from other countries are included.

(c) Other revenue

Figures represent the book value of fixed assets, if any, (new construction and machinery and equipment including major repairs and alterations, additions, modifications, installation and assembly work) produced during the year for the use of reporting establishments by the establishments' 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 establishments' own employees, such as revenue from goods produced for rental (the book value of such goods are included as part of factory shipments), servicing revenues, commissions on sales (when not included in value of sales), revenue from company-operated cafeterias and lunch counters and revenue from outside installation or construction work not related to the establishments' 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 inventory

Values represent the book value of manufacturing inventory owned in Canada. The value of inventory held for which progress payments have been received is treated as shipments and is not included in inventory owned. 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. Inventory owned abroad has already been reported as shipments and is excluded.

(b) Inventory of goods purchased for re-sale

Figures represent the book value of inventory of goods purchased for re-sale as such without further processing, owned by reporting establishments and held at the plants and at any warehouses or selling outlets which are treated as extensions of establishments. Inventory owned in transit in Canada or on consignment in Canada is included.

Because of changes in classification, the receipt of revised data, the inclusion of new establishments or the removal of old establishments which did not operate during the latest year, the opening inventory for the latest year does not necessarily coincide with the closing inventory of the preceding year.

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 total activities

Figures consist of value added by manufacturing activities plus value added by non-manufacturing activities and is compiled by deducting the cost 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, adjusted for changes in the value of inventories of goods purchased for re-sale.

"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 in 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.

Short Forms

Since 1949, in order to ease the reporting burden for smaller firms, a one-page short form has been used asking for only a limited amount of detail. For purposes of publication, missing data were estimated on the basis of appropriate ratios. Beginning with the 1959 census, the general limit for short forms was raised from \$50,000 (the limit used since 1949) to \$100,000 value of shipments and a new medium form was used. This form is a shortened version of the long form in that some of the general questions were pared down and the detailed lists of materials and products were limited to the more important items. The general limits for firms in this category were set at between \$100,000-\$500,000 value of shipments, but in the case of both the

short and medium forms there are lower cut-offs for a number of industries in which the smaller firms account for a larger share of total shipments.

Prior to 1961, the short form was limited to a question on the principal items of factory shipments. In the 1961 and 1962 censuses, in addition to the question on shipments of goods of own manufacture, general questions on employment and payroll and on total revenue were added on all short forms. The other elements of principal statistics, viz. value of materials, fuel and electricity and inventories, were estimated by using ratios based on the change in the value of shipments reported in 1961 and 1962. This was done to permit the complete compilation of basic industry statistics by industry and by geographic location. The proportions of the estimated data was generally less than 5 per cent of the total in each category of principal statistics.

Beginning with the 1963 census, general questions on total purchases of materials, fuel and electricity and on total inventory were added on the short forms. The two questions, however, were designed so that the data can be easily derived from respondents' regular accounting records. This will permit a complete tabulation of principal statistics without the necessity of estimating missing items and will result in increased accuracy for rural area statistics where small firms account for a relatively important part of industrial output.

The addition of extra questions on the short form in recent years has also permitted an increase in the cut-off limits for short forms in many industries. This has meant that many more firms are now receiving the short form instead of the long or medium form. It has also resulted in the withdrawal of the medium form in a number of industries, thus further simplifying collection and tabulation procedures.