

1962
CATALOGUE No.

42-216

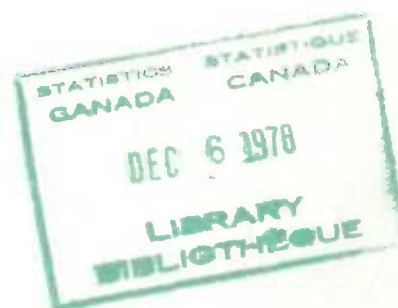
ANNUAL



OFFICE AND STORE MACHINERY MANUFACTURERS

1962

ANNUAL CENSUS
OF MANUFACTURES



Published by Authority of
The Minister of Trade and Commerce

DOMINION BUREAU OF STATISTICS
Industry Division

May 1965
6921-821

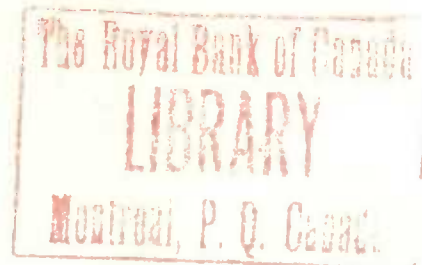
Price: 50 cents

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.
- ◊ preliminary figures.
- ⋈ revised figures.





OFFICE AND STORE MACHINERY MANUFACTURERS

1962

Data presented in this report under the heading of Office and Store Machinery Manufacturers 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 Office and Store Machinery Manufacturers in the revised Standard Industrial Classification covers the operations of establishments primarily engaged in manufacturing office and store machinery such as typewriters, cash registers, coin-operated vending machines, mechanical computing machines, and scales and balances. Establishments primarily engaged in manufacturing electronic computers, data processors and control devices, are included in Industry No. 339—Manufacturers of Miscellaneous Electrical Products.

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. Refer to the Explanatory Notes section of this report for a more detailed explanation. For the most part the changes in the manufacturing activity of the industry under review resulting from the implementation of the final stage of the establishment concept were of a relatively minor nature, however it should be noted that one firm was transferred to Trade because of a re-assessment of its principal activity. The comparative series of statistics included in Tables 1 and 1A indicate the extent of these changes.

TABLE 1. Principal Statistics — Manufacturing Activity,¹ 1957-61
Basis: Revised Standard Industrial Classification and New Establishment Concept²

Year	Estab-lish-ments	Employees						Cost of fuel and elec-tricity ⁴	Cost of materials and supplies used ⁴	Value of shipments of goods of own manu-facture ⁴	Value added ⁴	
		Production and related workers ⁴		Administrative and office employees ⁵		Total ⁴						
		Number	Wages	Number	Salaries	Number	Salaries and wages					
	No.		\$'000		\$'000		\$'000					
1957.....	20	3, 018	10, 556	854	3, 760	3, 872	14, 316	235	27, 869	62, 668	37, 176	
1958.....	23	2, 440	9, 609	727	3, 958	3, 167	13, 567	242	21, 711	54, 489	31, 095	
1959.....	22	2, 356	10, 702	816	4, 310	3, 172	15, 012	260	26, 944	55, 749	30, 447	
1960.....	22	2, 334	10, 249	954	5, 312	3, 288	15, 560	247	36, 557	73, 536	36, 969	
1961.....	25	2, 345	10, 952	1, 087	5, 640	3, 432	16, 592	284	41, 254	87, 823	48, 500	

See footnotes following Table 3 A.

TABLE 1 A. Principal Statistics — Manufacturing Activity and Total Activity,¹ 1961 and 1962
Basis: Revised Standard Industrial Classification and New Establishment Concept²

Year and province	Estab-lish-ments	Manufacturing activity							Total activity				
		Production and related workers ⁴			Cost of fuel and elec-tricity ⁵	Cost of materials and supplies used ⁴	Value of shipments of goods of own manu-facture ⁴	Value added ⁴	Working owners and partners ⁶		Total employees ⁷		Total value added ⁸
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1961													
Newfoundland ¹⁰.....	...	...	...	...	...	...	...	...	...	...	13	96	...
Nova Scotia ¹⁰.....	...	...	...	...	...	...	...	...	...	...	82	503	...
New Brunswick ¹⁰.....	...	...	...	...	...	...	...	...	...	...	30	223	...
Quebec.....	5	171	349	600	32	1,289	4,334	3,199	"	"	1,481	7,264	4,129
Ontario.....	19	2,120	4,413	10,131	246	39,188	84,384	47,243	"	"	5,337	28,084	107,501
Manitoba ¹⁰.....	...	...	...	...	...	...	...	...	...	...	216	1,296	...
Saskatchewan ¹⁰.....	...	...	...	...	...	...	...	...	...	...	92	584	...
Alberta ¹⁰.....	...	...	...	...	...	...	...	...	...	...	220	1,363	...
British Columbia ¹⁰.....	...	...	...	...	...	...	...	...	...	...	288	1,672	...
Totals.....	24	2,291	4,762	10,731	278	40,477	88,718	50,442	"	"	7,759	41,086	111,630
1962													
Newfoundland ¹⁰.....	...	...	...	...	...	...	...	...	...	...	13	97	...
Nova Scotia ¹⁰.....	...	...	...	...	...	...	...	...	...	...	95	580	...
New Brunswick ¹⁰.....	...	...	...	...	...	...	...	...	...	...	41	278	...
Quebec.....	4	191	431	731	30	1,586	4,230	2,711	"	"	1,520	8,605	3,524
Ontario.....	19	2,158	4,476	10,382	254	50,988	92,895	44,635	—	—	6,019	33,087	118,210
British Columbia.....	1												
Manitoba ¹⁰.....	...	...	...	...	...	...	...	...	...	...	215	1,293	...
Saskatchewan ¹⁰.....	...	...	...	...	...	...	...	...	...	...	92	590	...
Alberta ¹⁰.....	...	...	...	...	...	...	...	...	...	...	226	1,406	...
Totals.....	24	2,349	4,907	11,114	284	52,574	97,125	47,346	"	"	8,221	45,936	121,744

See Table 2 and footnotes following Table 3 A.

TABLE 1 B. 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

Size group	Estab- lish- ments	Manufacturing activity							Total activity					
		Production and related workers ⁴			Cost of fuel and elec- tricity ⁵	Cost of materials and supplies used ⁴	Value of shipments of goods of own manu- facture ⁴	Value added ⁴	Working owners and partners ⁶		Total employees ⁷		Total value added ⁸	
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages		
	No.		'000			\$'000				\$'000			\$'000	
1961														
Under \$10,000	}													
\$ 10,000 to \$ 24,999		4	16	36	62	3	74	201	140	"	"	22	82	143
25,000 " 49,999														
50,000 " 99,999														
100,000 " 199,999	}	4	34	71	126	6	235	578	319	"	"	76	320	471
200,000 " 499,999														
500,000 " 999,999		7	125	296	504	21	1,524	2,842	1,440	—	—	175	812	2,559
1,000,000 " 4,999,999														
5,000,000 and over	}	9	2,116	4,360	10,039	247	38,644	85,098	48,542	—	—	3,980	19,183	108,457
Head offices, sales offices and auxiliary units ¹⁰		...	...	...	...	...	...	...	...	...	...	3,506	20,689	...
Totals		24	2,291	4,762	10,731	278	40,477	88,718	50,442	"	"	7,759	41,086	111,630
1962														
Under \$10,000	}													
\$ 10,000 to \$ 24,999		5	10	20	34	4	123	231	135	"	"	19	65	136
25,000 " 49,999														
50,000 " 99,999														
100,000 " 199,999	}	3	24	49	87	4	185	489	302	—	—	58	267	442
200,000 " 499,999														
500,000 " 999,999		6	111	211	409	25	2,177	2,768	879	—	—	177	824	969
1,000,000 " 4,999,999														
5,000,000 and over	}	7	621	1,335	2,529	75	8,549	19,247	11,741	—	—	1,452	6,696	16,386
Head offices, sales offices and auxiliary units ¹⁰		3	1,583	3,291	8,054	177	41,540	74,390	34,289	—	—	2,736	15,033	103,802
Totals		24	2,349	4,907	11,114	284	52,574	97,125	47,346	"	"	8,221	45,936	121,734

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity					
		Production and related workers ⁴			Cost of fuel and elec- tricity ⁵	Cost of materials and supplies used ⁴	Value of shipments of goods of own manu- facture ⁴	Value added ⁴	Working owners and partners ⁶		Total employees ⁷		Total value added ⁸	
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages		
	No.		'000			\$'000				\$'000			\$'000	
1961														
Under \$10,000	}													
\$ 10,000 to \$ 24,999		3	6	12	22	2	61	140	87	"	"	10	34	86
25,000 " 49,999														
50,000 " 99,999		5	51	112	206	11	379	790	334	"	"	71	309	798
100,000 " 199,999	}	4	51	126	204	10	542	1,178	629	—	—	107	514	914
200,000 " 499,999		3	67	152	281	7	852	1,512	850	—	—	85	356	1,375
500,000 " 999,999														
1,000,000 " 4,999,999														
5,000,000 and over	}	9	2,116	4,380	10,038	248	38,644	85,098	48,542	—	—	3,960	19,183	108,457
Head offices, sales offices and auxiliary units ¹⁰		...	...	...	...	...	...	...	...	...	...	3,506	20,689	...
Totals		24	2,291	4,762	10,731	278	40,477	88,718	50,442	"	"	7,759	41,086	111,630
1962														
Under \$10,000	}													
\$ 10,000 to \$ 24,999		8	70	127	236	11	1,361	1,383	179	"	"	101	384	166
25,000 " 49,999														
50,000 " 99,999														
100,000 " 199,999	}	4	44	89	183	10	390	960	563	—	—	81	365	704
200,000 " 499,999		3	68	144	217	14	1,620	2,365	918	—	—	119	551	1,020
500,000 " 999,999														
1,000,000 " 4,999,999														
5,000,000 and over	}	9	2,167	4,548	10,497	250	49,203	92,417	45,686	—	—	4,141	21,584	119,845
Head offices, sales offices and auxiliary units ¹⁰		...	...	...	...	...	...	...	...	...	...	3,779	23,052	...
Totals		24	2,349	4,907	11,114	284	52,574	97,125	47,346	"	"	8,221	45,936	121,734

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 Concept¹

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers ⁴			Cost of fuel and elec- tricity ⁵	Cost of materials and supplies used ⁶	Value of shipments of goods of own manu- facture ⁴	Value added ⁴	Working owners and partners ⁶		Total employees ⁷		Total value added ⁴
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1961													
Under \$10,000	3												
\$ 10,000 to \$ 24,999		6	12	22	2	61	141	87	"	"	10	34	86
25,000 " 49,999													
50,000 " 99,999		26	57	104	5	115	308	195	"	"	36	154	198
100,000 " 199,999		35	81	154	8	307	779	448			51	254	491
200,000 " 499,999	6	108	252	414	15	1,352	2,393	1,169			176	772	2,397
500,000 " 999,999													
1,000,000 " 4,999,999	6	539	1,153	2,215	78	6,208	16,509	10,940			1,376	5,824	15,838
5,000,000 and over	3	1,577	3,207	7,823	169	32,436	68,589	37,603			2,604	13,359	92,819
Head offices, sales offices and auxiliary units ¹⁰	...	...	...	...	...	...	...	...	...	...	3,506	20,689	...
Totals	24	2,291	4,762	10,731	278	40,477	88,718	50,442	"	"	7,759	41,086	111,630
1962													
Under \$10,000	8												
\$ 10,000 to \$ 24,999		70	126	236	11	1,361	1,383	179	"	"	101	394	166
25,000 " 49,999													
50,000 " 99,999		35	69	132	9	340	787	441			52	228	450
100,000 " 199,999		77	164	249	15	1,670	2,538	1,040			148	688	1,273
200,000 " 499,999	5	521	1,134	2,204	63	6,433	14,649	9,017			1,023	4,722	10,382
500,000 " 999,999													
1,000,000 " 4,999,999	4	1,846	3,414	8,292	187	42,770	77,768	36,669			3,118	16,862	109,463
5,000,000 and over													
Head offices, sales offices and auxiliary units ¹⁰	...	...	...	...	...	...	...	...	...	...	3,779	23,052	...
Totals	24	2,349	4,907	11,114	284	52,574	97,125	47,346	"	"	8,221	45,936	121,734

¹ See footnotes following Table 3A.

TABLE 1E. Principal Statistics classified by Size Groups based on Total Employed,^{1,2} 1961 and 1962
Basis: Revised Standard Industrial Classification and New Establishment Concept¹

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers ⁴			Cost of fuel and elec- tricity ⁵	Cost of materials and supplies used ⁶	Value of shipments of goods of own manu- facture ⁴	Value added ⁴	Working owners and partners ⁶		Total employees ⁷		Total value added ⁴
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1961													
Under 5 employees	7	33	68	118	10	656	1,182	880	"	"	51	200	751
5- 14 employees													
15- 49 " "		142	335	575	21	1,178	2,439	1,219			222	1,015	2,422
50- 99 " "		192	458	905	44	3,119	8,798	6,405			404	1,615	6,498
100-199 " "													
200-499 " "	6	1,924	3,902	9,133	203	35,524	76,300	42,137			3,576	17,568	101,959
500 employees and over													
Head offices, sales offices and auxiliary units ¹⁰	...	...	...	...	...	...	...	...	...	...	3,506	20,689	...
Totals	24	2,291	4,762	10,731	278	40,477	88,718	50,442	"	"	7,759	41,086	111,630
1962													
Under 5 employees	7	23	46	80	9	348	695	368	"	"	36	132	389
5- 14 employees													
15- 49 " "		97	202	314	19	1,955	3,120	1,020			156	653	1,237
50- 99 " "		97	184	382	18	1,726	3,768	2,468			184	908	2,629
100-199 " "													
200-499 " "	8	2,132	4,475	10,337	239	48,545	89,543	43,490			4,066	21,191	117,496
500 employees and over													
Head offices, sales offices and auxiliary units ¹⁰	...	...	...	...	...	...	...	...	...	...	3,779	23,052	...
Totals	24	2,349	4,907	11,114	284	52,574	97,125	47,346	"	"	8,221	45,936	121,734

See footnotes following Table 3A.

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

Basis: Revised Standard Industrial Classification and New Establishment Concept¹

Type of organization	Establishments	Manufacturing activity							Total activity				
		Production and related workers ⁴			Cost of fuel and electricity ⁵	Cost of materials and supplies used ⁴	Value of shipments of goods of own manufacture ⁴	Value added ⁴	Working owners and partners ⁶		Total employees ⁷		Total value added ⁸
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1961													
Individual ownerships	2	2, 291	4, 762	10, 731	278	40, 477	88, 718	50, 442	11	11	4, 253	20, 398	111, 630
Partnerships	—												
Incorporated companies	22												
Cooperatives	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units ¹⁰ .....	...	...	...	...	...	...	...	...	...	...	3, 506	20, 689	...
Totals	24	2, 291	4, 762	10, 731	278	40, 477	88, 718	50, 442	11	11	7, 758	41, 086	111, 630
1962													
Individual ownerships	1	2, 349	4, 907	11, 114	284	52, 574	97, 125	47, 346	11	11	4, 442	22, 885	121, 734
Partnerships	—												
Incorporated companies	23												
Cooperatives	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units ¹⁰ .....	...	...	...	...	...	...	...	...	...	...	3, 779	23, 052	...
Totals	24	2, 349	4, 907	11, 114	284	52, 574	97, 125	47, 346	11	11	8, 221	45, 936	121, 734

See footnotes following Table 3 A.

TABLE 2. Industry Outputs, Inputs and Value Added, 1961 and 1962

Basis: Revised Standard Industrial Classification and New Establishment Concept¹

Item	1961	1962
	\$'000	
Manufacturing activity:		
Value of shipments—Goods of own manufacture	88, 718	97, 125
Add: Closing inventory—Goods in process	5, 594	8, 968
Finished goods	12, 519	12, 693
Deduct: Opening inventory—Goods in process	5, 509	6, 504
Finished goods	10, 126	(15, 635)
Gross output—Manufacturing activity	91, 196	100, 205
Deduct: Cost of materials and supplies used in manufacturing activity	40, 477	52, 574
Cost of fuel and electricity used	278	(40, 755)
Value added—Manufacturing activity	50, 442	47, 346
Non-manufacturing activities:		
Value of shipments—Goods not of own manufacture .....	..	32, 340
Add: All other revenue .....	..	62, 859
Closing inventory—Goods purchased for resale	3, 892	4, 033
Deduct: Purchases of goods for resale as such .....	..	19, 091
Opening inventory—Goods not of own manufacture	3, 392	3, 914
Cost of all other materials and supplies used .....	..	(..)
Value added—Non-manufacturing activities	61, 188	74, 388
Total value added	111, 630	121, 734

See footnote following Table 3 A.

TABLE 3. Employment and Payroll, 1961 and 1962
Basis: Revised Standard Industrial Classification and New Establishment Concept¹

Year and province	Employees										Salaries and wages				
	Production and related workers				Adminis- trative and office ²		Sales, and distribution ³		Total employees ^{4,5}		Production and related workers		Adminis- trative and office	Sales, and distri- bution	Total salaries and wages
	Manufacturing ⁶		Other ⁷								Manufacturing	Other			
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female						Manufac- turing	Other
	number										\$'000				
1961															
Newfoundland.....	—	—	..	..	..	..	..	..	13	—	...	..	..	..	96
Nova Scotia.....	—	—	..	..	..	..	..	..	69	13	...	..	..	..	503
New Brunswick.....	—	—	..	..	..	..	..	..	30	—	...	..	..	..	223
Quebec.....	136	35	..	..	..	..	..	..	1,216	265	600	..	..	..	7,264
Ontario.....	1,758	364	..	..	..	..	..	..	4,349	988	10,131	..	..	..	28,084
Manitoba.....	—	—	..	..	..	..	..	..	180	36	...	..	..	..	1,296
Saskatchewan.....	—	—	..	..	..	..	..	..	66	6	...	..	..	..	564
Alberta.....	—	—	..	..	..	..	..	..	192	28	...	..	..	..	1,363
British Columbia.....	—	—	..	..	..	..	..	..	241	47	...	..	..	..	1,672
Totals.....	1,892	399	..	..	..	..	..	..	6,376	1,383	10,731	..	..	..	41,086
1962															
Newfoundland.....	—	—	—	—	—	—	13	—	13	—	—	—	—	97	97
Nova Scotia.....	—	—	—	—	—	—	82	13	82	13	—	—	—	580	580
New Brunswick.....	—	—	—	—	—	—	38	3	38	3	—	—	—	278	278
Quebec.....	145	46	—	—	63	42	1,048	176	1,256	264	731	—	482	7,392	8,605
Ontario.....	1,798	360	—	—	651	326	2,474	410	4,923	1,096	10,382	—	5,745	16,959	33,087
British Columbia.....															
Manitoba.....	...	...	...	...	...	...	160	35	180	35	...	...	...	1,293	1,293
Saskatchewan.....	...	...	...	...	...	...	84	8	84	8	...	...	...	590	590
Alberta.....	...	...	...	...	...	...	195	31	195	31	...	...	...	1,406	1,406
Totals.....	1,943	406	—	—	714	368	4,114	676	6,771	1,450	11,114	—	6,228	28,594	45,936

See footnotes following Table 3 A.

TABLE 3 A. Production and Related Workers,⁴— Manufacturing Activity, by Months, 1962

Basis: Revised Standard Industrial Classification and New Establishment Concept¹

Month	Establishments reporting monthly detail	
	Male	Female
	number	
January.....	1,852	402
February.....	1,864	393
March.....	1,861	396
April.....	1,845	406
May.....	1,852	404
June.....	1,904	412
July.....	1,911	401
August.....	1,907	408
September.....	1,921	413
October.....	1,918	403
November.....	1,914	406
December.....	1,917	395
Average for establishments reporting monthly detail (collected only for large establishments).....	1,888	404
Average for small establishments (only annual averages collected).....	55	2
Average for all establishments.....	1,943	406

¹ See Table 2 and Explanatory Notes concerning manufacturing and non-manufacturing activities.

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 Explanatory Notes.

⁷ Includes production and related workers, administrative and office employees, sales distribution and other employees. See Explanatory Notes for the treatment of head office employees and those employed in auxiliary units.

⁸ 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.

⁹ Sales and distribution workers and production 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.

¹⁰ These data cover the activities reported by separately located units such as head offices, sales offices, administrative offices, laboratories, warehouses, etc. 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 procedure.

¹¹ Confidential data.

¹² Including paid employees and working owners but excluding 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
1. Materials used:		
Castings (rough and semi-finished received from foundry):		
Iron (gray and malleable)	ton	305
Steel		93
Steel (except alloy and tool steel):		
Bars	ton	189
Plates (3/16 in. and thicker)	"	99
Sheets (under 3/16 in.)	"	1,018
Structural shapes, unfabricated (channels, angles, etc.)	"	895
Alloy and tool steel in all forms (including stainless)		264
Other iron and steel		120
Non-ferrous metals in all forms:		
Aluminum:		
Castings	lb.	14,699
Other forms	"	91,054
Brass and bronze	"	45,691
Lead	"	18,186
Nickel	"	633
Zinc	"	99,247
Other non-ferrous metals		19
Other materials and supplies:		
Paints and varnishes		27
Lumber	M bd. ft.	68
All other materials and components used ²		50,624
2. Containers and other packaging materials and supplies used		231
3. Operating, maintenance and repair supplies used (excluding fuel)		487
4. Amount paid out to others for work done on materials owned by establishments		37
Total		52,574

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 \$533,572.

TABLE 5. Fuel and Electricity Used¹ in Manufacturing Activity,² 1962
Basis: Revised Standard Industrial Classification and New Establishment Concept³

Description	Quantity	Cost
		\$'000
1. Large establishments which reported commodity detail:		
Bituminous coal:		
(a) From Canadian mines	ton	1,459
(b) Imported		19
Sub-bituminous coal (from Alberta mines only)		—
Anthracite coal		—
Lignite coal		—
Coke		—
Gasoline (including gasoline used in cars and trucks)	Imp. gal.	10,312
Fuel oil including kerosene or coal oil	"	819,450
Wood		77
Gas:		
(a) Liquefied petroleum gases	Imp. gal.	7,500
(b) Other manufactured gas		2
(c) Natural gas	M cu. ft.	27,732
Other fuel		30
Electricity purchased	kwh.	14,090,271
Steam purchased		138
2. Medium size establishments which reported only group detail:		
Fuel		—
Electricity		—
3. Estimate for small establishments for which no data were collected:		
Fuel and electricity		15
4. All establishments:		
Total fuel and electricity used		284

¹ Does not include fuel and electricity produced for own use.

² 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.

³ See Explanatory Notes.

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

Description	Quantity	Value
	No.	\$'000
1. Products:		
Adding machines	8,647	1,362
Typewriters:		
Standard	35,426	6,932
Portable	33,953	2,029
Electric	25,066	9,212
Other office machinery, including cash registers, calculating machines, card sorting machines, accounting machines etc. (excluding parts) .....	...	56,972
Scales	10,318	3,876
Parts for office, store and business machinery .....	...	10,033
All other products .....	...	2,559
2. Amount received in payment for work done on materials and products owned by others		4,416
Less adjustments for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above		(266)
Net adjustment for establishments receiving progress payments ²		-
Total adjusted value of shipments and work done		97,125

¹ See Explanatory Notes.

² See footnote 1, Table 7.

Note: Data given in the above table reflect totals by firms classified as "Office and Store Machinery Manufacturers" see text for definition. These products may have been made also as minor products of firms classified to other industries, so the figures in this table do not necessarily represent the total Canadian production of the items which are listed. For the total figures of some of the major items, See Table 8.

TABLE 7. Industry Inventories, 1962¹
Basis: Revised Standard Industrial Classification and New Establishment Concept²

Province	Manufacturing				Non-manufacturing	Total inventories ¹
	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total manufacturing	Products or materials purchased for resale	
book value \$*000						
Opening: ²						
Newfoundland .....	...	...	...	...	...	...
Nova Scotia .....	...	...	...	...	...	...
New Brunswick .....	...	...	...	...	...	...
Quebec	606	244	1,091	1,941	295	2,236
Ontario	13,815	6,260	12,848	32,923	3,619	36,542
British Columbia						
Manitoba						
Saskatchewan						
Alberta .....	...	...	...	...	...	...
Totals ⁴	14,422	6,504	13,938	34,864	3,914	38,778
Closing:						
Newfoundland .....	...	...	...	...	...	...
Nova Scotia .....	...	...	...	...	...	...
New Brunswick .....	...	...	...	...	...	...
Quebec	613	258	1,174	2,044	308	2,352
Ontario	14,273	8,709	13,478	36,460	3,725	40,185
British Columbia						
Manitoba						
Saskatchewan						
Alberta .....	...	...	...	...	...	...
Totals ⁴	14,886	8,968	14,651	38,505	4,033	42,538

¹ 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.

² See Explanatory Notes.

³ 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.

⁴ Figures may not add due to rounding.

⁵ The difference between figures in this table and those in Table 2 arises from firms reporting output of products on the basis of production rather than of shipments. Consequently, inventories of finished products for such respondents are not taken into account for purposes of compiling value added in Table 2.

TABLE 8. Shipments of Goods of Own Manufacture - All Industries, 1961 and 1962¹

Description	1961		1962	
	Quantity	Value	Quantity	Value
	No.	\$'000	No.	\$'000
Accounting machines	2	2	2	2
Adding machines	8,336	1,509	8,647	1,362
Addressing and mailing machines	2	2	2	2
Cash registers	2	2	2	2
Calculating machines	2	2	2	2
Card-sorting and tabulating machines	2	2	2	2
Duplicating machines	2	2	2	2
Meat-slicing machines	839	365	399	180
Scales:				
For stores, homes and offices	89,284	1,323	84,702	1,441
Industrial:				
Bench or portable type	4,334	1,035	4,938	1,373
Built-in or pit type	934	1,907	780	1,609
Typewriters:				
Standard, including long carriage	35,222	4,189	35,426	6,932
Portable	36,957	2,160	33,953	2,029
Electric	17,953	5,477	25,066	9,212
Time recording, job recording and time stamping machines	2	2	2	2
Other office and business machinery .....	...	53,518	...	56,972
Other store machinery .....	...	243	...	495
Parts for office, store and business machinery .....	...	5,895	...	10,033

¹ Includes shipments from other industries which manufacture, as a secondary activity, the commodities listed above.

² Included with "Other office and business machinery" to avoid disclosure of individual firms.

TABLE 9. Capital and Repair Expenditures, 1960-62

Year	Capital expenditures			Repair expenditures			Total capital and repair expenditures		
	Construction	Machinery and equipment	Sub-total	Construction	Machinery and equipment	Sub-total	Construction	Machinery and equipment	Total
	\$'000								
1960	6,100	10,144	16,244	2,087	6,004	8,091	8,187	16,148	24,335
1961	2,757	10,976	13,733	1,942	5,719	7,661	4,699	16,695	21,394
1962	4,607	16,389	20,996	1,977	5,972	7,949	6,584	22,361	28,945

Note: Includes data for Miscellaneous Machinery and Equipment Manufacturers and Office and Store Machinery Manufacturers.

Source: Business Finance Division. - DBS.

List of Establishments, 1962

Name	Location
Quebec:	
Bolero Vending Machine Mfg. Co. Ltd.	Montreal
Colnex Mfg. Reg'd.	St. John's
Morse, Robt., Corp. Ltd.	Sherbrooke
Royal Typewriter Co. Ltd.	Montreal
Ontario:	
Addressograph-Multigraph of Canada, Ltd.	Toronto 16
Better Packages of Canada Ltd.	Toronto 1
Burroughs Business Machines Ltd.	Toronto 2
Canadian Scale Co. Ltd.	Toronto 14
Clary Multiplier of Canada Ltd.	Toronto 16
Commodore Portable Typewriter Co. Ltd.	Toronto 2 B
Cornelius Mfg. Co. Ltd.	Rexdale
Gurney Scale Co. Ltd.	Hamilton
Hawker-Siddeley Canada Ltd. (Vending Machine Div.)	Toronto
Hobart Mfg. Co. Ltd., The	Don Mills
International Business Machines Co. Ltd.	Toronto 6
National Cash Register Co. of Canada Ltd.	Toronto 3
Opal Mfg. Co. Ltd.	Toronto 15
Scale, E.W. Co., Ltd.	Toronto 18
Smith-Corona (Canada) Ltd.	Toronto 13
Therm-A-Bind Ltd.	Scarborough
Toledo Scale Co. of Canada Ltd.	Windsor
Underwood Limited	Don Mills
Vendomatic Services Ltd.	Toronto 14
British Columbia:	
Dey Cap Industries Ltd.	Vancouver 6

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.¹

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.

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.

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.

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.

³ 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 establishments⁴ 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

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 the 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 establishment-operated 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

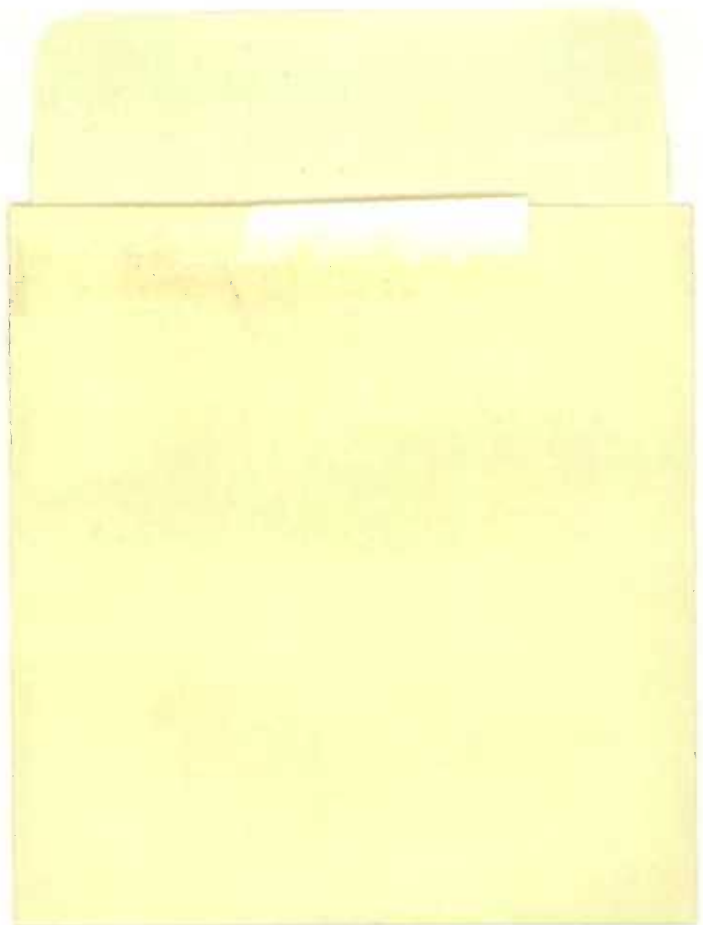
short and medium forms there are lower cut-offs for a number of industries in which the smaller firms account for a larger share of total shipments.

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.

The Royal Bank of Canada
LIBRARY
Montreal, P. Q. Canada



STATISTICS CANADA LIBRARY
BIBLIOTHÈQUE STATISTIQUE CANADA



1010660295

1962

OFFICE AND STORE MACHINERY MANUFACTURERS