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# AIRCRAFT AND PARTS MANUFACTURERS 1963

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## AIRCRAFT AND PARTS MANUFACTURERS

### 1963

Data presented in this report under the heading of Aircraft and Parts 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 Aircraft and Parts Manufacturers in the revised Standard Industrial Classification covers the operations of establishments primarily engaged in manufacturing aeroplanes, gliders, balloons and aircraft parts, such as engines, propellers and pontoons. Aircraft repair is included in this industry. The manufacture of aeronautical instruments is classified in Industry No. 381 — Scientific and Professional Equipment Manufacturers.

**Note:** The Aircraft and Parts Manufacturers Industry is one of the industries in the Annual Census of Manufactures reporting on a "Production" basis rather than a "Shipments" basis — see the section on "Shipment of goods of own manufacture" in "Explanatory Notes" at the end of this report.

### 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.
- x confidential to meet secrecy requirements of the Statistics Act.

TABLE 1 A. Principal Statistics classified by Province, 1962 and 1963

Year and province	Establishments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and electricity	Cost of materials and supplies	Value of shipments of goods of own manufacture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1961													
Totals .....	80	19,249	41,278	87,825	3,016	161,345	348,245	188,946	5	21	28,689	143,333	196,557
1962													
Newfoundland .....	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island .....	1	961	1,925	3,648	151	1,309	7,312	5,852	x	x	1,127	4,497	5,768
Nova Scotia .....	3												
New Brunswick .....	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec .....	23	9,231	20,836	45,798	1,717	100,376	211,926	109,432	x	x	14,705	78,995	110,828
Ontario .....	32	6,173	12,382	26,732	1,096	76,380	142,703	61,972	-	-	9,517	43,843	62,951
Manitoba .....	3	546	1,134	2,245	92	3,894	8,168	4,182	x	x	964	4,264	4,725
Saskatchewan .....	1												
Alberta .....	11	769	1,628	3,532	51	1,163	6,815	5,600	x	x	1,013	4,719	5,664
British Columbia .....	9	237	488	1,115	62	1,618	4,310	2,630	-	-	339	1,663	2,792
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals .....	83	17,917	38,393	83,070	3,169	184,741	381,234	189,668	8	32	27,665	137,981	192,728
1963													
Newfoundland .....	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island .....	1	864	1,785	3,456	141	1,438	7,308	5,728	x	x	1,083	4,435	5,945
Nova Scotia .....	3												
New Brunswick .....	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec .....	23	7,238	16,283	36,096	1,477	76,615	172,589	97,981	x	x	12,401	68,684	98,450
Ontario .....	35	6,878	14,255	32,884	1,431	89,388	159,337	68,676	3	8	10,650	55,868	71,150
Manitoba .....	3	608	1,225	2,556	81	3,946	9,635	5,609	x	x	1,027	4,600	6,401
Saskatchewan .....	1												
Alberta .....	12	740	1,480	3,373	57	1,439	7,423	5,997	3	17	992	4,694	6,372
British Columbia .....	10	188	378	1,037	55	2,200	4,302	2,326	-	-	287	1,613	2,318
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals .....	88	16,516	35,405	79,402	3,242	175,024	360,594	186,317	10	39	26,440	139,894	190,636

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity			
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees	
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages
	No.		'000			\$'000				\$'000		\$'000
1962												
Under \$10,000	—	—	—	—	—	—	—	—	—	—	—	—
\$ 10,000 to \$ 24,999	6	6	10	17	3	34	105	68	5	11	9	26
25,000 " 49,999	10	29	59	117	3	148	411	260	2	14	47	187
50,000 " 99,999	7	39	84	171	8	181	516	326	1	6	48	207
100,000 " 199,999	10	122	252	478	20	487	1,423	911	—	—	156	645
200,000 " 499,999	12	319	673	1,302	42	1,345	3,582	2,194	—	—	398	1,777
500,000 " 999,999	8	371	800	1,567	62	2,290	5,522	3,162	—	—	585	2,706
1,000,000 " 4,999,999	20	3,694	7,977	16,722	674	20,698	51,802	30,555	—	—	5,343 <sup>f</sup>	25,372 <sup>f</sup>
5,000,000 and over	10	13,337	28,539	62,696	2,356	159,558	317,873	152,193	—	—	21,061	106,859
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	18	202
Totals	83	17,917	38,393	83,070	3,169	184,741	381,234	189,668	8	32	27,665 <sup>f</sup>	137,981 <sup>f</sup>
1963												
Under \$10,000	8	8	16	28	2	37	106	68	7	18	9	32
\$ 10,000 to \$ 24,999	9	24	49	93	5	135	362	241	1	11	36	140
25,000 " 49,999	10	54	111	219	11	326	683	404	2	9	71	307
50,000 " 99,999	12	156	319	684	22	650	1,764	1,118	—	—	202	930
100,000 " 199,999	8	178	372	663	32	781	2,254	1,453	—	—	230	1,003
200,000 " 499,999	8	320	662	1,478	68	2,763	5,767	3,336	—	—	518	2,608
500,000 " 999,999	23	3,665	7,878	16,842	666	21,175	54,871	32,843	—	—	5,312	25,841
1,000,000 " 4,999,999	10	12,111	25,997	59,396	2,439	149,156	294,786	146,854	—	—	20,039	108,833
5,000,000 and over	...	...	...	...	...	...	...	...	...	...	23	202
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	23	202
Totals	88	16,516	35,405	79,402	3,242	175,024	360,594	186,317	10	39	26,440	139,894

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity			
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees	
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages
	No.		'000			\$'000				\$'000		\$'000
1962												
Under \$10,000	4	2	3	6	2	23	61	36	5	11	3	9
\$ 10,000 to \$ 24,999	5	13	25	45	1	76	166	88	—	—	22	77
25,000 " 49,999	12	42	83	172	7	199	608	402	3	20	60	248
50,000 " 99,999	8	80	169	319	16	354	997	622	—	—	101	421
100,000 " 199,999	13	257	545	1,053	37	1,142	3,077	1,899	—	—	330	1,488
200,000 " 499,999	11	495	1,074	2,105	79	3,140	6,832	3,608	—	—	732	3,441
500,000 " 999,999	4	385	855	1,931	57	3,626	6,775	3,092	—	—	524 <sup>f</sup>	2,571 <sup>f</sup>
1,000,000 " 4,999,999	20	5,084	10,627	21,735	908	31,659	73,570	41,121	—	—	7,225 <sup>f</sup>	32,920 <sup>f</sup>
5,000,000 and over	6	11,559	25,012	55,704	2,062	144,521	289,150	138,801	—	—	18,650	96,605
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	18	202
Totals	83	17,917	38,393	83,070	3,169	184,741	381,234	189,668	8	32	27,665 <sup>f</sup>	137,981 <sup>f</sup>
1963												
Under \$10,000	7	7	14	25	2	30	85	54	7	18	7	25
\$ 10,000 to \$ 24,999	5	12	26	49	2	130	228	102	1	11	19	76
25,000 " 49,999	15	70	146	296	15	494	970	530	2	9	94	409
50,000 " 99,999	6	52	107	221	9	272	662	401	—	—	64	280
100,000 " 199,999	12	212	421	889	35	806	2,542	1,710	—	—	280	1,275
200,000 " 499,999	8	259	537	1,017	51	2,298	4,725	2,501	—	—	429	1,960
500,000 " 999,999	10	624	1,475	3,091	163	5,343	12,362	7,153	—	—	963	5,346
1,000,000 " 4,999,999	18	3,957	8,299	17,739	696	25,084	62,071	36,089	—	—	5,835	27,785
5,000,000 and over	7	11,323	24,379	56,076	2,268	140,567	276,950	137,778	—	—	18,726	102,536
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	23	202
Totals	88	16,516	35,405	79,402	3,242	175,024	360,594	186,317	10	39	26,440	139,894



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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1962													
Under \$10,000 .....	4	2	3	6	2	23	61	36	5	11	3	9	36
\$ 10,000 to \$ 24,999 .....	3	7	12	21	1	19	75	55	—	—	11	37	55
25,000 " 49,999 .....	12	41	82	167	5	222	612	384	3	20	60	248	400
50,000 " 99,999 .....	9	76	159	300	13	338	935	578	—	—	98	391	636
100,000 " 199,999 .....	12	236	498	948	35	949	2,581	1,598	—	—	288	1,273	1,603
200,000 " 499,999 .....	10	367	796	1,585	57	2,051	5,094	2,981	—	—	510	2,426	3,097
500,000 " 999,999 .....	6	385	852	1,741	67	4,464	7,882	3,352	—	—	603	2,839	4,306
1,000,000 " 4,999,999 .....	21	5,244	10,978	22,597	926	32,153	74,844	41,884	—	—	7,429 <sup>r</sup>	33,952 <sup>r</sup>	42,743
5,000,000 and over .....	6	11,559	25,012	55,704	2,062	144,521	289,150	138,801	—	—	18,650	96,605	139,871
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	18	202	(18)
Totals .....	83	17,917	38,393	83,070	3,169	184,741	381,234	189,668	8	32	27,665 <sup>r</sup>	137,981 <sup>r</sup>	192,728
1963													
Under \$10,000 .....	6	4	8	14	2	18	61	42	7	18	4	14	42
\$ 10,000 to \$ 24,999 .....	4	11	23	45	2	93	178	90	1	11	15	61	89
25,000 " 49,999 .....	17	74	155	312	15	543	1,043	555	2	9	101	435	621
50,000 " 99,999 .....	6	52	107	221	9	272	662	401	—	—	64	280	401
100,000 " 199,999 .....	11	167	335	741	23	661	2,232	1,558	—	—	224	1,094	1,557
200,000 " 499,999 .....	9	325	703	1,261	53	2,246	5,163	2,914	—	—	456	2,093	3,372
500,000 " 999,999 .....	11	671	1,569	3,341	187	6,992	14,699	7,888	—	—	1,123	6,007	8,810
1,000,000 " 4,999,999 .....	17	3,889	8,126	17,392	682	23,632	59,607	35,092	—	—	5,704	27,173	37,493
5,000,000 and over .....	7	11,323	24,379	56,076	2,268	140,567	276,950	137,778	—	—	18,726	102,536	138,271
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	23	202	(19)
Totals .....	88	16,516	35,405	79,402	3,242	175,024	360,594	186,317	10	39	26,440	139,894	190,636

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1962													
Under 5 employed .....	12	17	30	60	4	141	397	252	7	25	29	100	283
5- 14 employed .....	16	99	211	421	16	456	1,304	833	1	6	129	565	881
15- 49 " .....	16	345	726	1,392	50	1,498	3,969	2,417	—	—	439	1,940	2,589
50- 99 " .....	11	519	1,131	2,260	103	6,034	11,531	5,389	—	—	800	3,771	5,973
100-199 " .....	6	698	1,566	3,481	118	3,491	9,391	5,813	—	—	984	4,844	6,703
200-499 " .....	13	3,008	6,331	13,008	547	20,673	46,679	25,547	—	—	4,377 <sup>r</sup>	20,237 <sup>r</sup>	25,436
500 employed and over .....	9	13,231	28,397	62,448	2,331	152,448	307,963	149,417	—	—	20,909	106,322	150,881
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	18	202	(18)
Totals .....	83	17,917	38,393	83,070	3,169	184,741	381,234	189,668	8	32	27,665 <sup>r</sup>	137,981 <sup>r</sup>	192,728
1963													
Under 5 employed .....	16	26	53	96	7	213	470	281	8	29	37	137	348
5- 14 employed .....	17	105	220	452	19	711	1,492	813	2	9	137	616	812
15- 49 " .....	16	335	708	1,423	45	1,969	4,970	3,022	—	—	442	2,106	3,018
50- 99 " .....	10	426	981	1,928	129	4,079	9,231	5,122	—	—	744	3,852	6,280
100-199 " .....	9	855	1,933	4,195	181	7,371	16,029	8,735	—	—	1,265	6,535	9,470
200-499 " .....	11	2,449	5,071	11,026	452	17,991	41,224	22,601	—	—	3,637	17,559	23,722
500 employed and over .....	9	12,320	26,438	60,282	2,409	142,691	287,179	145,742	—	—	20,155	108,888	147,005
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	23	202	(19)
Totals .....	88	16,516	35,405	79,402	3,242	175,024	360,594	186,317	10	39	26,440	139,894	190,636

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

Type of organization	Establishments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and electricity	Cost of materials and supplies	Value of shipments of goods of own manufacture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
<b>1962</b>													
Individual ownerships .....	6	13	26	49	5	50	185	130	8	32	14	51	130
Partnerships .....													
Incorporated companies .....	77	17,904	38,367	83,021	3,164	184,691	381,049	189,538	—	—	27,633 <sup>r</sup>	137,729 <sup>r</sup>	192,616
Cooperatives .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	18	202	(18)
<b>Totals</b> .....	<b>83</b>	<b>17,917</b>	<b>38,393</b>	<b>83,070</b>	<b>3,169</b>	<b>184,741</b>	<b>381,234</b>	<b>189,668</b>	<b>8</b>	<b>32</b>	<b>27,665<sup>r</sup></b>	<b>137,981<sup>r</sup></b>	<b>192,728</b>
<b>1963</b>													
Individual ownerships .....	9	18	36	63	6	87	225	138	10	39	19	66	138
Partnerships .....													
Incorporated companies .....	79	16,498	35,369	79,339	3,236	174,937	360,369	186,180	—	—	26,398	139,626	190,517
Cooperatives .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	23	202	(19)
<b>Totals</b> .....	<b>88</b>	<b>16,516</b>	<b>35,405</b>	<b>79,402</b>	<b>3,242</b>	<b>175,024</b>	<b>360,594</b>	<b>186,317</b>	<b>10</b>	<b>39</b>	<b>26,440</b>	<b>139,894</b>	<b>190,636</b>

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

	Manufacturing activity		Non-manufacturing activities		Total activity	
	1962	1963	1962	1963	1962	1963
	\$'000					
Output						
1. Shipments and other revenue .....	381,234	360,594	28,196	34,583	409,430	395,177
Inventories — Goods of own manufacture:						
Add closing — Goods in process .....	—	—	...	...	—	—
Finished goods .....	5,742	12,854	...	...	5,742	12,854
Less opening — Goods in process .....	—	—	...	...	—	—
Finished goods .....	9,399	8,864	...	...	9,399	8,864
2. Net inventory change .....	(3,657)	3,990	...	...	(3,657)	3,990
3. Gross output (1 + 2) .....	377,577	364,584	28,196	34,583	405,773	399,167
Input						
4. Purchases of goods not of own manufacture .....	...	...	20,468	24,719	20,468	24,719
Inventories — Goods not of own manufacture:						
Add opening .....	...	...	10,175	8,122	10,175	8,122
Less closing .....	...	...	8,684	5,571	8,684	5,571
5. Cost of goods sold (not of own manufacture) .....	...	...	21,959	27,270	21,959	27,270
6. Materials, supplies, components and semi-processed goods .....	184,741	175,024	3,177	2,994	187,918	178,018
7. Fuel and electricity .....	3,169	3,242	...	...	3,169	3,242
8. Gross input (5 + 6 + 7) .....	187,910	178,266	25,136	30,264	213,046	206,530
Census value added (3 - 8) .....	189,668	186,317	3,060	4,319	192,728	190,636



TABLE 3. Employment and Payroll, 1962 and 1963

Year and province	Employees										Salaries and wages				
	Production and related workers				Adminis- trative and office		Sales and distribution		Total employees		Production and related workers		Admin- istrative and office	Sales and distri- bution	Total salaries and wages
	Manufacturing		Other												
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Manufac- turing	Other			
number										\$'000					
1962															
Newfoundland .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island .....	953	8	-	-	110	56	-	-	1,063	64	3,648	-	849	-	4,497
Nova Scotia .....															
New Brunswick .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec .....	9,044	187	112 <sup>r</sup>	89 <sup>r</sup>	3,999	1,122	120	32	13,275 <sup>r</sup>	1,430 <sup>r</sup>	45,798	783 <sup>r</sup>	31,138	1,276	78,995 <sup>r</sup>
Ontario .....	5,957	216	63	25	2,405	746	85	20	8,510	1,007	26,732	397	16,139	576	43,843
Manitoba .....	538	6	-	-	273	109	25	11	836	128	2,245	-	1,854	164	4,264
Saskatchewan .....															
Alberta .....	754	15	2	-	145	97	-	-	901	112	3,532	8	1,179	-	4,719
British Columbia .....	236	1	-	-	75	27	-	-	311	28	1,115	-	548	-	1,663
Yukon and Northwest Terri- tories .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals .....	17,482	435	177 <sup>r</sup>	114 <sup>r</sup>	7,007	2,157	230	63	24,896 <sup>r</sup>	2,769 <sup>r</sup>	83,070	1,188 <sup>r</sup>	51,708	2,016	137,981 <sup>r</sup>
1963															
Newfoundland .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island .....	859	5	-	-	126	93	-	-	985	98	3,456	-	979	-	4,435
Nova Scotia .....															
New Brunswick .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec .....	7,030	208	123	63	3,860	936	127	54	11,140	1,261	36,096	861	30,574	1,153	68,684
Ontario .....	6,661	217	89	33	2,557	926	136	31	9,443	1,207	32,884	632	21,295	1,058	55,868
Manitoba .....	600	8	-	-	261	116	30	12	891	136	2,556	-	1,870	175	4,600
Saskatchewan .....															
Alberta .....	720	20	-	-	163	89	-	-	883	109	3,373	-	1,320	-	4,694
British Columbia .....	187	1	-	-	72	27	-	-	259	28	1,037	-	575	-	1,613
Yukon and Northwest Terri- tories .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals .....	16,057	459	212	96	7,039	2,187	293	97	23,601	2,839	79,402	1,493	56,614	2,385	139,894

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

Month	Establishments reporting monthly detail			
	1962		1963	
	Male	Female	Male	Female
	number			
January .....	17,990	404	15,483	426
February .....	18,040	409	15,390	424
March .....	17,685	413	15,219	442
April .....	17,223	395	15,173	453
May .....	16,929	393	15,263	419
June .....	16,717	400	15,366	426
July .....	16,323	405	15,211	431
August .....	17,455	441	15,307	447
September .....	17,016	438	15,749	453
October .....	16,284	417	16,176	460
November .....	15,650	405	16,451	455
December .....	15,402	408	16,816	468
Average for establishments reporting monthly detail (collected only for large establishments) ..	16,894	411	15,634	446
Average for small establishments (only annual averages collected) .....	588	24	423	13
Average for all establishments .....	17,482	435	16,057	459

TABLE 4. Industry Inventories, 1963

Province	Manufacturing				Non-manufacturing	Total inventories
	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total manufacturing	Products or materials purchased for resale	
book value \$'000						
Opening:						
Newfoundland .....	—	—	—	—	—	—
Prince Edward Island .....	193	408	4	605	—	605
Nova Scotia .....						
New Brunswick .....						
Quebec .....	8,989	13,285	6,262	28,537	7,349	35,886
Ontario .....	20,112	7,224	1,487	28,823	714	29,537
Manitoba .....	1,374	879	1	2,253	—	2,253
Saskatchewan .....						
Alberta .....						
British Columbia .....	452	411	918	1,782	—	1,782
Yukon and Northwest Territories .....	—	—	—	—	—	—
Totals .....	31,465	22,310	8,864	62,639	8,122	70,761
Closing:						
Newfoundland .....	—	—	—	—	—	—
Prince Edward Island .....	266	512	3	781	—	781
Nova Scotia .....						
New Brunswick .....						
Quebec .....	8,578	19,596	9,747	37,922	4,938	42,860
Ontario .....	13,459	5,144	1,644	20,247	601	20,848
Manitoba .....	1,462	898	1	2,361	—	2,361
Saskatchewan .....						
Alberta .....						
British Columbia .....	246	138	1,197	1,581	—	1,581
Yukon and Northwest Territories .....	—	—	—	—	—	—
Totals .....	24,389	26,535	12,854	63,778	5,571	69,349

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

Description	1962		1963	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
1. Large establishments which reported commodity detail:				
Bituminous coal:				
(a) From Canadian mines .....	ton	9,471	8,287	87
(b) Imported .....	"	7,823	8,347	96
Sub-bituminous coal (from Alberta mines only) .....	"	473	504	8
Anthracite coal .....	"	—	—	—
Lignite coal .....	"	—	—	—
Coke .....	"	215	2	—
Gasoline (including gasoline used in cars and trucks) .....	Imp. gal.	4,544,461	1,989,691	377
Fuel oil including kerosene or coal oil .....	"	7,427,445	11,734,107	1,055
Wood .....	cord	—	—	—
Gas:				
(a) Liquefied petroleum gases .....	Imp. gal.	202,617	47,758	11
(b) Other manufactured gas .....	M cu.ft.	—	1,130	1
(c) Natural gas .....	"	323,355	202,462	116
Other fuel .....	...	2	...	4
Electricity purchased .....	kwh.	137,895,283	143,428,902	1,378
Steam purchased .....	...	60	...	40
2. Estimate for small establishments:				
Fuel and electricity .....	...	92	...	69
3. All establishments:				
<b>Total fuel and electricity used</b> .....	...	<b>3,169</b>	...	<b>3,242</b>

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

Description	1962		1963	
	Quantity	Cost \$'000	Quantity	Cost \$'000
1. All materials and components used <sup>1</sup> .....	...	155,249	...	152,045
2. Containers and other packaging materials and supplies used .....	...	701	...	653
3. Operating, maintenance and repair supplies used (excluding fuel) .....	...	12,373	...	13,214
4. Amount paid out to others for work done on materials owned by establishments .....	...	13,933	...	9,111
<b>Totals</b> .....	...	<b>184,741</b>	...	<b>175,024</b>

<sup>1</sup> No detailed information on materials used was collected from small establishments the estimated costs for which are included here. These estimated costs were \$2,485,560 in 1962 and \$2,511,562 in 1963.

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

Description	Value	
	1962	1963
	\$'000	
1. Products:		
Aircraft and engines being built but not completed at year-end (value of work done on same <del>in 1962</del> ) .....	89,902	64,250
Modifications, conversions, servicing, overhaul and repairs to aircraft, engines, etc. <del>during 1962</del> (value of work done) .....	54,789	58,966
Aircraft parts manufactured <del>during 1962</del> .....	139,758	126,060
All other products made <del>in 1962</del> .....	192,472 <sup>1</sup>	167,343 <sup>1</sup>
<b>Total of above items</b> .....	<b>476,921</b>	<b>416,619</b>
Less value of work done in <del>1962</del> on aircraft and engines completed in <del>1962</del> <i>CURRENT YEAR</i> <i>Previous year</i> .....	(100,217)	(61,658)
2. Amount received in payment for work done on materials and products owned by others .....	4,860	5,808
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above .....	(157)	(176)
Net adjustment for establishments receiving progress payments .....	(172)	-
<b>Total adjusted value of shipments and work done</b> .....	<b>381,234</b>	<b>360,594</b>

<sup>1</sup> Includes completed aircraft. Only 2 firms reporting, therefore separate details cannot be shown.

List of Establishments classified to this Industry, 1963

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

Name	Location
<b>Prince Edward Island:</b>	
Enamel & Heating Products Ltd. ....	P.O. Box 520, Charlottetown
<b>Nova Scotia:</b>	
Eastwing Aviation Reg'd .....	205 Portland St., Dartmouth
Enamel & Heating Products Ltd. ....	Lusby St., Amherst
Fairey Aviation Co. of Canada Ltd. ....	Eastern Passage
<b>Quebec:</b>	
Aircraft Industries of Canada Ltd. ....	Municipal Airport, St. John's
Aircraft Technicians Inc. ....	Montreal International Airport Dorval
Aircraft Welding & Sheet Metals Co. Ltd. ....	7980-18e Ave. Ville St-Michel
Bristol Aero-Industries Ltd. ....	10210 Pie IX Blvd., Montreal N.
Canadair Limited .....	Laurentian Blvd., St. Laurent
Central Dynamics Ltd. ....	147 Hymus Blvd., Pointe-Claire
Denomme, Roland .....	R.R. #1, Harricana Ouest
Ferndale Industries Reg'd. ....	1540 Henri-Bourassa St., Montreal 12
Fournier Engineering Reg'd .....	680 National St., Buis-des-Filiens, Terrebonne
Godfrey Engineering Co. Ltd. ....	480 Montreal-Toronto Blvd., Lachine

List of Establishments classified to this Industry, 1963 - Concluded

Name	Location
<b>Quebec - Concluded:</b>	
Heroux Machine Parts Ltd.	340 Thurber St., Longueuil
Jarry Hydraulics Ltd.	P.O. Box 1000, Rosemont Station, Montreal
La Prairie Aircraft Inc.	536 Brossard St., La Prairie
Lasalle Engineering Ltd.	1140 Wellington St., Montreal
Lucas-Rotax Ltd.	5595 Royalmount Ave., Mount Royal
Noorduyn Norseman Aircraft Ltd.	2800 Bois-Franc Rd., Ville St-Laurent
Patenaude Industries	10830 La Jeunesse St., Montreal 12
Plastal Mfg. Limited	476 Edouard St., Granby
R.C. Machine Parts Inc.	242 St-Jean St., Longueuil
Rolls-Royce of Canada Ltd.	6265 Côte-de-Liesse Rd., Lachine
Timmins Aviation Ltd.	Montreal Airport, Dorval
United Aircraft of Canada Limited	1000 Marle-Victorin Blvd. and 150 Lorne Ave., Longueuil
Westhill Industries Ltd.	9031 Parkway Blvd., Ville d'Anjou, Montreal 5
<b>Ontario:</b>	
Aeroquip (Canada) Ltd.	287 Bridgeland Ave., Toronto 19
Aircraft Appliance & Equipment Ltd.	585 Dixon Rd., Rexdale
Aro of Canada Ltd.	1416 Kipling Ave. N., Rexdale
B. & W. Aircraft	Skyline Drive R.R. #2, Guelph
Boeing of Canada Ltd. (Vertol Div.)	P.O. Box 338, Arnprior
Canadian Flight Equip. Ltd.	46 Saskatoon St., Cambellford
Canadian Pratt & Whitney Services Ltd.	90 Sparks St., Ottawa 4
Cox, Earle E.	Bowmanville
Davair Components Ltd.	537 Keele St., Toronto 9
De Havilland Aircraft of Canada Ltd., The	Garratt Blvd., Downsview
Dowty Equipment of Canada Ltd.	239 Station St., Ajax
E.G.M. Machine Products Ltd.	123 McCormack Ave., Toronto 9
Elliott, W.R. Ltd.	134 Sydney St. E., Kitchener
Field Aviation Co. Ltd.	Toronto International Airport, Malton
Fleet Aircraft Co. Ltd.	Gilmore Rd., Fort Erie
Fleet Manufacturing Ltd.	Gilmore Rd., Fort Erie
Carrett Manufacturing Ltd.	4 Racine Rd. and 19 Attwell Dr., Rexdale
Genair (1961) Ltd.	P.O. Box 84, St. Catharines
Hawker-Siddeley Canada Ltd. (Canadian Car Div.)	1001 Montreal St., Fort William
Hawker-Siddeley Canada Ltd. (Orenda Div.)	P.O. Box 6001 International Airport, Toronto
Jarry Hydraulics Ltd.	1680 King St. E., Kitchener
Kearney Aircraft Company	Lake Head Airport, Fort William
Leavens Bros. Ltd.	3220 Dufferin St., Toronto 19
Leggat Aircraft Ltd.	Buttonville Airport, Gormley
Lucas-Rotax Ltd.	2200 Eglinton Ave. E., Scarborough
Murray, F.J. Machine Co. Ltd.	58 Rosemount Ave., Weston
Personal Plane Services Ltd.	P.O. Box 180, R.R.5, Ottawa
Picrite Precision Parts Ltd.	20 Cosentino Drive, Scarborough
Rayside Aircraft Maint. Ltd.	P.O. Box 73, Azilda
Renfrew Aircraft & Engineering Co. Ltd.	405 Hall Ave., Renfrew
Skyrotor Limited	Arnprior
Thompson, H.I. of Canada Ltd., The	60 Johnston St., Guelph
Tube Benders & Fabricators Ltd.	Streetsville
Walbar Machine Products of Canada Ltd.	333 Horner Ave., Toronto
York Gears Ltd.	825 Caledonia Rd., Toronto 19
<b>Manitoba:</b>	
Aero Trades Western Ltd.	Stevenson's Field, Winnipeg
Bristol Aero Industries Ltd.	Corner of Ellice & Berry St., St. James
Standard Aero Engine Ltd.	WPG. International Airport, Winnipeg
<b>Saskatchewan:</b>	
Adrian's Aircraft Maintenance Service	Airport, Box 1521, Saskatoon
<b>Alberta:</b>	
Associated Helicopter (Repairs) Ltd.	Hangar No. 10, Municipal Airport, Edmonton
Calgary Aircraft & Frgs., Ltd.	Hangar No. 4, Municipal Airport, Calgary
Canadian Pacific Air Lines (Repairs) Ltd.	Calgary
Crow, Aubrey	Hangar No. 13, Municipal Airport, Edmonton
Custom Air Industries Ltd.	Hangar No. 7, Municipal Airport, Edmonton
Falconar Aircraft	Bldg. 425 Municipal Airport, Edmonton
Field Aviation Co. Ltd.	McCall Field, Calgary
National Servicair Co. Ltd.	Hangar No. 16, Municipal Airport, Edmonton
Northwest Industries Ltd.	Municipal Airport, Edmonton
Squalcraft	Hangar No. 4 McCall Field, Calgary
Superior Aircraft Repair Ltd.	Hangar No. 9, Municipal Airport, Edmonton
Western Propeller Co. Ltd.	Hangar No. 16, Municipal Airport, Edmonton
<b>British Columbia:</b>	
Aviation Electric Pacific Ltd.	Vancouver Airport, Vancouver
Aviation Sheet Metal Ltd.	277 No. 3 Rd., Richmond
B.C. Aircraft Propeller & Engine Co. Ltd.	Vancouver Airport, Vancouver
Bristol-Aero Industries Ltd.	Vancouver A.M.F.
Fairley Aviation Co. of Canada Ltd., The	Victoria International Airport, Sidney
Fort St. John Aviation Ltd.	Fort St. John Airport, Fort St. John
K.C.R. Aircraft Industries Ltd.	Vancouver International Airport
Kamloops Aircraft Ltd.	P.O. Box 423, Kamloops
Lucas-Rotax Ltd.	Sea Island Airport, Vancouver
Sumas Air Services Ltd.	Abbotsford Airport, Abbotsford



# CONCEPTS AND DEFINITIONS

## Census of Manufactures

### General

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

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

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

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

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

### Establishment

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

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

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

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



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

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

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

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

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

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

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

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

#### **Employees**

##### **(a) Production and related workers—Manufacturing activity**

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

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

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

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

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

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

#### (d) Sales and distribution workers

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

#### (e) Total Employees

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

#### Working Owners or Partners

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

#### Salaries and Wages

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

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

#### Fuel and Electricity

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

#### Materials and Supplies

##### (a) Manufacturing activities

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

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

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

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

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

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



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

## **Shipments**

### **(a) General**

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

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

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

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

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

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

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

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

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

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

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

## **Inventories**

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

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

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

**(b) Non-manufacturing activities**

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

**Value Added**

**(a) By manufacturing activities**

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

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

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

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

**(c) By Total activities**

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







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