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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.

In total there were two less firms included in this industry in 1964, however the real change involved the addition of 13 firms and the deletion of 15 firms.

The value of shipments of products of own manufacture and materials used in their manufacture increased by 11%, value added on products of own manufacture increased by 12% and employment during the year increased by 7.5%.

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.
- p preliminary figures.
- r revised figures.
- x confidential to meet secrecy requirements of the Statistics Act.

TABLE 1. Principal Statistics, 1961-64

Year and province	Estab-lish-ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec-tricity	Cost of materials and supplies	Value of shipments of goods of own manu-facture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
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													
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	1,060 ^r	4,347 ^r	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	26,417 ^r	139,806 ^r	190,636
1964													
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	1	838	1,831	3,657	155	1,783	8,971	7,033	-	-	1,034	4,641	6,954
Nova Scotia	3												
New Brunswick	1	838	1,831	3,657	155	1,783	8,971	7,033	-	-	1,034	4,641	6,954
Quebec	24												
Ontario	35	8,124	17,058	42,395	1,466	89,255	184,575	94,364	5	18	12,508	69,654	96,121
Manitoba	2	1,076	2,361	4,922	159	6,692	16,270	9,419	x	x	1,709	8,003	9,902
Saskatchewan	1												
Alberta	10	103	215	560	28	1,144	2,377	1,204	-	-	183	1,019	1,286
British Columbia	9												
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	86	17,954	38,262	90,398	3,146	193,201	403,776	209,911	10	44	28,643	159,150	219,322

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

Size group	Estab-lish-ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec-tricity	Cost of materials and supplies	Value of shipments of goods of own manu-facture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1963													
Under \$10,000	8	8	16	28	2	37	106	68	7	18	9	32	104
\$ 10,000 to \$ 24,999	9	24	49	93	5	135	362	241	1	11	36	140	272
25,000 " 49,999	10	54	111	219	11	326	683	404	2	9	71	307	405
50,000 " 99,999	12	156	319	684	22	650	1,764	1,118	—	—	202	930	1,116
100,000 " 199,999	8	178	372	663	32	781	2,254	1,453	—	—	230	1,003	1,754
200,000 " 499,999	8	320	662	1,478	66	2,763	5,767	3,336	—	—	518	2,608	3,835
500,000 " 999,999	23	3,665	7,878	16,842	666	21,175	54,871	32,843	—	—	5,289 ^r	25,754 ^r	34,667
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	148,503
5,000,000 and over	—	—	—	—	—	—	—	—	—	—	—	—	—
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	26,417 ^r	139,806 ^r	190,636
1964													
Under \$10,000	11	16	30	50	5	63	191	123	6	18	26	78	146
\$ 10,000 to \$ 24,999	3	5	10	21	1	35	118	83	3	18	6	30	83
25,000 " 49,999	13	69	138	311	17	272	896	606	1	9	93	446	721
50,000 " 99,999	5	55	121	237	10	300	777	467	—	—	75	347	466
100,000 " 199,999	16	334	714	1,610	61	1,334	4,369	2,982	—	—	452	2,325	3,125
200,000 " 499,999	9	302	678	1,511	73	3,058	6,598	3,485	—	—	581	3,074	4,875
500,000 " 999,999	18	2,612	5,707	12,398	484	20,995	48,233	26,824	—	—	4,005	20,605	28,332
1,000,000 " 4,999,999	11	14,561	30,863	74,260	2,496	167,144	342,593	175,340	—	—	23,391	132,073	181,586
5,000,000 and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	14	171	(12)
Totals	86	17,954	38,262	90,398	3,146	193,201	403,776	209,911	10	44	28,643	159,150	219,322

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

Size group	Estab-lish-ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec-tricity	Cost of materials and supplies	Value of shipments of goods of own manu-facture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1963													
Under \$10,000	7	7	14	25	2	30	85	54	7	18	7	25	90
\$ 10,000 to \$ 24,999	5	12	26	49	2	130	228	102	1	11	19	76	132
25,000 " 49,999	15	70	146	296	15	494	970	530	2	9	94	409	529
50,000 " 99,999	6	52	107	221	9	272	662	401	—	—	64	280	401
100,000 " 199,999	12	212	421	889	35	806	2,542	1,710	—	—	280	1,275	2,013
200,000 " 499,999	8	259	537	1,017	51	2,298	4,725	2,501	—	—	429	1,960	3,004
500,000 " 999,999	10	624	1,475	3,091	163	5,343	12,362	7,153	—	—	963	5,346	7,741
1,000,000 " 4,999,999	18	3,957	8,299	17,739	696	25,084	62,071	36,089	—	—	5,812 ^r	27,698 ^r	38,474
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	26,417 ^r	139,806 ^r	190,636
1964													
Under \$10,000	3	3	5	7	1	19	40	20	2	9	7	17	43
\$ 10,000 to \$ 24,999	11	25	49	86	7	108	274	159	7	27	33	110	249
25,000 " 49,999	8	30	60	122	9	175	505	321	—	—	47	202	346
50,000 " 99,999	9	90	192	408	24	408	1,067	635	1	9	109	541	633
100,000 " 199,999	14	202	425	968	46	1,570	3,586	2,028	—	—	344	1,705	2,397
200,000 " 499,999	11	362	797	1,782	68	2,642	6,493	3,751	—	—	592	3,170	4,582
500,000 " 999,999	6	494	1,207	2,700	92	2,729	7,873	5,153	—	—	741	4,275	6,663
1,000,000 " 4,999,999	17	3,665	8,043	17,649	724	29,905	68,339	37,678	—	—	5,476	27,859	38,215
5,000,000 and over	7	13,083	27,484	66,676	2,175	155,645	315,598	160,165	—	—	21,280	121,100	166,207
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	14	171	(12)
Totals	86	17,954	38,262	90,398	3,146	193,201	403,776	209,911	10	44	28,643	159,150	219,322

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
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	—	—	5,681*	27,085*	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	26,417*	139,806*	190,636
1964													
Under \$10,000	2	18	34	57	6	92	263	165	9	36	28	86	187
\$ 10,000 to \$ 24,999	11	21	42	83	5	160	440	275	—	—	34	142	275
25,000 " 49,999	7	99	210	447	28	423	1,132	881	1	9	122	601	704
50,000 " 99,999	10	175	378	845	38	952	2,674	1,684	—	—	225	1,161	1,773
100,000 " 199,999	13	333	712	1,661	61	2,468	5,905	3,429	—	—	574	3,014	3,861
200,000 " 499,999	11	279	677	1,413	49	2,005	5,065	2,983	—	—	453	2,518	3,825
500,000 " 999,999	5	3,946	8,725	19,216	784	31,456	72,700	40,529	—	—	5,913	30,359	42,502
1,000,000 " 4,999,999	20	13,083	27,484	66,676	2,175	155,645	315,598	160,165	—	—	21,280	121,100	166,207
5,000,000 and over	7	...	...	...	...	...	...	...	...	...	14	171	(12)
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	14	171	(12)
Totals	86	17,954	38,262	90,398	3,146	193,201	403,776	209,911	10	44	28,643	159,150	219,322

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
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	—	—	3,614*	17,471*	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	26,417*	139,806*	190,636
1964													
Under 5 employed	17	29	56	106	7	171	527	349	9	36	41	164	349
5 - 14 employed	13	76	158	359	18	437	1,180	725	1	9	108	504	861
15 - 49 "	19	352	791	1,825	78	2,460	6,016	3,445	—	—	471	2,641	3,522
50 - 99 "	8	310	661	1,391	59	2,146	5,343	3,196	—	—	582	2,853	4,311
100-199 "	11	1,127	2,601	5,747	199	9,364	22,167	12,705	—	—	1,662	8,991	13,973
200-499 "	9	2,029	4,282	9,515	465	16,921	37,031	19,614	—	—	3,101	15,660	20,059
500 employed and over	9	14,029	29,713	71,454	2,320	161,702	331,511	169,877	—	—	22,664	128,167	176,260
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	14	171	(12)
Totals	86	17,954	38,262	90,398	3,146	193,201	403,776	209,911	10	44	28,643	159,150	219,322

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

Type of organization	Estab-lish-ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec-tricity	Cost of materials and supplies	Value of shipments of goods of own manu-facture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1963													
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	...	...	26,375	139,539	190,517
Co-operatives .....	—	—	—	—	—	—	—	—	...	...	—	—	—
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	26,417	139,806	190,636
1964													
Individual ownerships	8	15	28	53	5	86	254	163	10	44	15	53	163
Partnerships													
Incorporated companies	78	17,939	38,234	90,345	3,141	193,115	403,521	209,748	...	...	28,614	158,926	219,171
Co-operatives													
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	14	171	(12)
Totals	86	17,954	38,262	90,398	3,146	193,201	403,776	209,911	10	44	28,643	159,150	219,322

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

	Manufacturing activity		Non-manufacturing activities		Total activity	
	1963	1964	1963	1964	1963	1964
	\$'000					
Output						
1. Shipments and other revenue	360,594	403,776	34,583	35,753	395,177	439,528
Inventories—Goods of own manufacture:						
Add closing—Goods in process .....	—	—	...	...	—	—
Finished goods	12,854	13,467	...	...	12,854	13,467
Deduct opening—Goods in process .....	—	—	...	...	—	—
Finished goods	8,864	10,985	...	...	8,864	10,985
2. Net inventory change	3,990	2,482	...	...	3,990	2,482
3. Gross output (1 + 2)	364,584	406,258	34,583	35,753	399,167	442,010
Input						
4. Purchases of goods not of own manufacture .....	...	...	24,719	23,804	24,719	23,804
Inventories—Goods not of own manufacture:						
Add opening .....	...	...	8,122	6,717	8,122	6,717
Deduct closing .....	...	...	5,571	7,833	5,571	7,833
5. Cost of goods sold (not of own manufacture) .....	...	...	27,270	22,688	27,270	22,688
6. Materials, supplies, etc.	175,024	193,201	2,994	3,654	178,018	196,855
7. Fuel and electricity	3,242	3,146	...	...	3,242	3,146
8. Gross input (5 + 6 + 7)	178,266	196,347	30,264	26,342	208,530	222,689
Value added (3 - 8)	186,317	209,911	4,319	9,411	190,636	219,322

TABLE 8. Employment and Payroll, 1963 and 1964

Year and province	Employees										Salaries and wages				
	Production and related workers				Administrative and office		Sales and distribution		Total		Production and related workers		Administrative and office	Sales and distribution	Total
	Manufacturing		Other												
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Manufacturing	Other			
number										\$'000					
1963															
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	859	5	-	-	115 ^r	81 ^r	-	-	974 ^r	86 ^r	3,456	-	892 ^r	-	4,347 ^r
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	55,888
Manitoba	600	8	-	-	261	116	30	12	691	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 Territories	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	16,057	459	212	96	7,025 ^r	2,175 ^r	293	97	23,590 ^r	2,827 ^r	79,402	1,493	56,526 ^r	2,385	139,806 ^r
1964															
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	830	8	-	-	119	77	-	-	949	85	3,657	-	983	-	4,640
Nova Scotia															
New Brunswick	7,538	275	217	60	3,969	993	109	48	11,833	1,376	38,863	1,370	34,505	1,095	75,833
Quebec	7,908	216	123	31	3,081	956	157	36	11,269	1,239	42,395	766	25,154	1,339	69,854
Manitoba	1,058	18	-	-	416	169	38	12	1,510	199	4,922	-	2,852	229	8,003
Saskatchewan															
Alberta	103	-	12	-	51	17	-	-	166	17	560	60	399	-	1,019
British Columbia															
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	17,437	517	352	91	7,636	2,212	302	96	25,727	2,916	90,398	2,196	63,893	2,662	159,150

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

Month	1963		1964	
	Male	Female	Male	Female
	number			
Establishments reporting monthly detail (large establishments only):				
January	15,483	426	16,690	514
February	15,390	424	16,871	518
March	15,219	442	17,048	517
April	15,173	453	16,924	508
May	15,263	419	17,093	507
June	15,366	426	17,553	520
July	15,211	431	16,864	496
August	15,307	447	17,302	500
September	15,749	453	17,212	488
October	16,176	460	17,223	489
November	16,451	455	17,291	493
December	16,818	468	17,128	475
Averages	15,634	446	17,100	503
Establishments reporting annual averages (small establishments only)	423	13	337	14
Average for all establishments	16,057	459	17,437	517

TABLE 10. Inventories, 1964

Province	Manufacturing				Non-manufacturing	Total inventories
	Materials, supplies, etc.	Goods in process	Finished goods of own manufacture	Total	Products or materials purchased for resale	
book value \$'000						
Opening:						
Newfoundland	—	—	—	—	—	—
Prince Edward Island	} 269	515	—	784	—	784
Nova Scotia						
New Brunswick						
Quebec	8,800	18,447	9,800	37,047	5,790	42,837
Ontario	12,939	5,150	1,185	19,274	927	20,201
Manitoba	} 1,956	1,276	—	3,232	—	3,232
Saskatchewan						
Alberta						
British Columbia	585	941	—	1,526	—	1,526
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	24,548	26,328	10,985	61,862	6,717	68,579
Closing:						
Newfoundland	—	—	—	—	—	—
Prince Edward Island	} 245	29	—	274	—	274
Nova Scotia						
New Brunswick						
Quebec	9,763	8,475	11,772	30,009	6,299	36,308
Ontario	24,837	9,323	1,696	35,856	1,534	37,390
Manitoba	} 2,319	1,495	—	3,813	—	3,813
Saskatchewan						
Alberta						
British Columbia	397	850	—	1,247	—	1,247
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	37,561	20,172	13,467	71,200	7,833	79,033

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

Description	1963		1964	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
1. Large establishments reporting commodity detail:				
Bituminous coal:				
(a) From Canadian mines	ton	8,287	7,487	78
(b) Imported	"	8,347	8,492	105
Sub-bituminous coal (from Alberta mines only)	"	504	295	4
Anthracite coal	"	-	-	-
Lignite coal	"	-	-	-
Coke	"	-	-	-
Gasoline (including gasoline used in cars and trucks)	Imp. gal.	1,989,691	2,041,966	388
Fuel oil including kerosene or coal oil	"	11,734,107	9,762,241	760
Wood	cord	-	-	-
Gas:				
(a) Liquefied petroleum gases	Imp. gal.	47,758	33,529	8
(b) Other manufactured gas	M cu. ft.	1,130	-	-
(c) Natural gas	"	202,462	294,651	146
Other fuel .....	...	4	...	33
Electricity purchased	kwh.	143,428,902	168,066,384	1,503
Steam purchased .....	...	40	...	53
2. Small establishments not reporting commodity detail:				
Estimate for fuel and electricity .....	...	69	...	68
3. All establishments:				
Total fuel and electricity used .....	...	3,242	...	3,146

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

Description	1963		1964	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
1. All materials and components used ¹	152, 045	...	168, 644
2. Containers and other packaging materials and supplies used	653	...	718
3. Operating, maintenance and repair supplies used (excluding fuel)	13, 214	...	15, 857
4. Amount paid out to others for work done on materials owned by establishments	9, 111	...	7, 983
Totals	175, 024	...	193, 201

¹ No detailed information on materials used was collected from small establishments the estimated costs for which are included here. These estimated costs were \$2,511,562 in 1963 and \$1,521,834 in 1964.

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

Description	Value	
	1963	1964
	\$'000	
1. Products:		
Aircraft and engines being built but not completed at year-end (value of work done on same)	64, 250	81, 606
Modifications, conversions, servicing, overhaul and repairs to aircraft, engines, etc. (value of work done)	58, 966	57, 306
Aircraft parts manufactured	128, 060	141, 754
All other products made	167, 343 ¹	209, 537 ¹
Total of above items	416, 619	490, 203
Less value of work done in previous year on aircraft and engines completed in current year	(61, 658)	(94, 923)
2. Amount received in payment for work done on materials and products owned by others	5, 808	8, 838
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above	(176)	(342)
Net adjustment for establishments receiving progress payments	—	—
Total adjusted value of shipments and work done	360, 594	403, 776

¹ Includes the value of completed aircraft which is confidential.

List of Establishments classified to This Industry, 1964

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

Name	Location
Prince Edward Island:	
Enamel & Heating Products Ltd.	P.O. Box 520, Charlottetown
Nova Scotia:	
Eastwing Aviation Ltd.	205 Portland St., Dartmouth
Enamel & Heating Products Ltd.	Lusby St., Amherst
Fairey Canada Ltd.	Eastern Passage
New Brunswick:	
Maritime Aircraft Overhaul & Repair Ltd.	RR 4, Moncton
Quebec:	
Aero Machinery Ltd.	5411 Industrial Blvd., Montreal N.
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
Amos Aviation Ltée.	St-Mathieu
Bristol Aero-Industries Ltd.	10210 Pie IX Blvd., Montreal N.
Canadair Limited	Laurentian Blvd., St. Laurent
Central Dynamics Ltd.	147 Hymus Blvd., Pointe-Claire
Perndale Industries Reg'd.	1540 Henri-Bourassa St., Montreal 12

List of Establishments classified to This Industry, 1964 - Concluded

Name	Location
Quebec - Concluded:	
Godfrey Engineering Co. Ltd.	480 Montreal-Toronto Blvd., Lachine
Heroux Machine Parts Ltd.	340 Thurber St., Longueuil
Jarry Hydraulics Ltd.	3600 Rachel St. E., 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
Micro-Matic Engineering	8945 Lajeunesse St., Montreal
Noorduyn Norseman Aircraft Ltd.	2800 Bois-Franc Rd., St-Laurent
Patenaude Industries	10830 Lajeunesse St., Montreal 12
Piastal 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, Montreal
United Aircraft of Canada Limited	1000 Marie-Victorin Blvd. and 150 Lorne Ave., Longueuil
Westhill Industries Ltd.	9031 Parkway Blvd., Ville d'Anjou, Montreal 5
Ontario:	
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
Avian Aircraft Ltd.	116 Mountainview Rd. S., Georgetown
B & W. Aircraft	Skyline Drive R.R. #2, Guelph
Boeing of Canada Ltd. (Vertol Div.)	P.O. Box 338, Arnprior
Canadian Flight Equip. Cobourg Ltd.	374 Sidney St., Trenton
Canadian Pratt & Whitney Services Ltd.	90 Sparks St., Ottawa 4
Custom Metal Co.	Oshawa Airport, Oshawa
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
Elliott, W.R. Ltd.	134 Sydney St. E., Kitchener
Field Aviation Co. Ltd.	Toronto International Airport, Malton
Fleet Manufacturing Ltd.	Gilmore Rd., Fort Erie
Garrett Manufacturing Ltd.	4 Racine Rd. and 19 Attwell Dr., Rexdale
Genaire (1961) Ltd.	Niagara District Airport, St. Catharines
Hawker-Siddeley Canada Ltd. (Canadian Car Div.)	1001 Montreal St., Fort William
Hawker-Siddeley Canada Ltd. (Orenda Div.)	Rexdale Blvd., Malton
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
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
Red Lake Seaplane Service	Red Lake
Renfrew Aircraft & Engineering Co. Ltd.	405 Hall Ave., Renfrew
Skyrotor Limited	Arnprior
Specialized Patents, Sales & Development Ltd.	40 Queen Elizabeth Blvd., Toronto
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
Manitoba:	
Bristol Aero Industries Ltd.	Corner of Ellice & Berry St., St. James
Standard Aero Engine Ltd.	WPG. International Airport, Winnipeg
Saskatchewan:	
Adrian's Aircraft Maintenance Service	Airport, Box 1521, Saskatoon
Alberta:	
Associated Helicopter (Repairs) Ltd.	Hangar No. 10, Municipal Airport, Edmonton
B & L Aircraft Maintenance Ltd.	Hangar No. 3, Municipal Airport, Edmonton
Crow, Aubrey	Hangar No. 13, Industrial Airport, Edmonton
Custom Air Industries Ltd.	Hangar No. 7, Municipal Airport, Edmonton
Falconar Aircraft	Industrial Airport, Edmonton
Field Aviation Co. Ltd.	McCall Field, Calgary
Northwest Industries Ltd.	Municipal Airport, Edmonton
Satellite Aircraft Ltd.	R.R. No. 1, Winterburn
Superior Aircraft Repair Ltd.	Hangar No. 9, Municipal Airport, Edmonton
Western Propeller Co. Ltd.	Hangar No. 16, Municipal Airport, Edmonton
British Columbia:	
Aviation Electric Pacific Ltd.	Vancouver Airport, Vancouver
Bristol-Aero Industries Ltd.	Vancouver Airport, Vancouver
Canadian Aircraft Products Ltd.	621 No 3 Rd., Richmond
Fairley Aviation Co. of Canada Ltd., The	Patricia Bay Airport, Sidney
Helicopter Welders of Canada Ltd.	Vancouver Airport, Vancouver
K.C.R. Aircraft Industries Ltd.	Vancouver Airport, Vancouver
K.F. Aircraft Repairs Ltd.	Langley Airport, Langley
Lucas-Rotax Ltd.	Vancouver Airport, Vancouver
Vancouver Aero Services Ltd.	Vancouver Airport, Vancouver

CONCEPTS AND DEFINITIONS

Census of Manufactures

General

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

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

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

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

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

Establishment

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

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

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

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

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

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

Head Offices and Auxiliary Units

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

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

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

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

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

Employees

(a) Production and related workers - Manufacturing activities

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

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

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

(c) Administrative and office employees

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

(d) Sales and distribution workers

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

(e) Total Employees

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

Working Owners or Partners

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

Salaries and Wages

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

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

Fuel and Electricity

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

Materials and Supplies

(a) Manufacturing activities

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

(b) Non-manufacturing activities

1. Purchases for re-sale as such

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

2. Other materials and supplies used

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

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

Shipments

(a) General

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

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

(b) Shipments of goods of own manufacture

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

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

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

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

(c) Shipments of goods not of own manufacture

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

(d) Other revenue

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

Inventories

(a) Manufacturing activities

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

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

(b) Non-manufacturing activities

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

Value Added

(a) By manufacturing activities

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

(b) By non-manufacturing activities

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

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

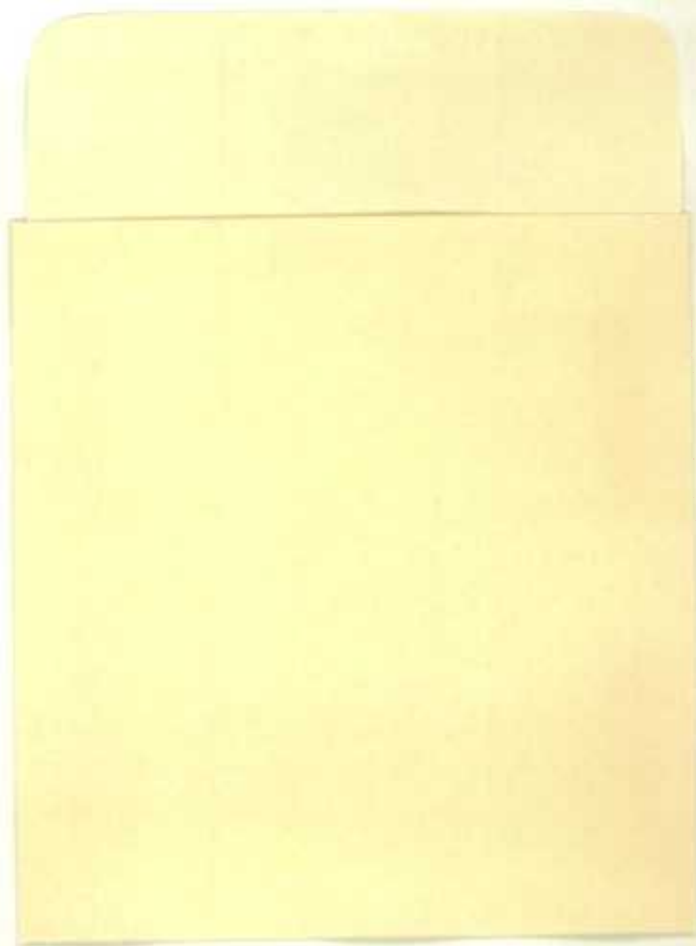
(c) By Total activities

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



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