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AIRCRAFT AND PARTS MANUFACTURERS 1965

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AIRCRAFT AND PARTS MANUFACTURERS

1965

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.

An analysis of the principal statistics for this industry indicates that the value of shipments of products of own manufacture decreased by 2.3 per cent, the value of production decreased by 1 per cent, the cost of materials used decreased 4.8 per cent but value added increased by 2.2 per cent. During the same period the ratio of cost of materials to value of production was 45.7 per cent whereas in 1964 the ratio was 47.3 per cent, and the ratios of manufacturing wages were 22 per cent in 1965 and 22.5 per cent in 1964. Employment in the industry decreased by 3 per cent in 1965.

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 of "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. Principal Statistics, 1961-65

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													
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													
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												
Quebec	24	7,813	16,796	38,863	1,338	94,327	191,583	97,890	x	x	13,209	75,832	105,059
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												
British Columbia	9	103	215	560	28	1,144	2,377	1,204	—	—	183	1,019	1,286
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
1965													
Newfoundland	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	3	x	x	x	x	x	x	x	—	—	x	x	x
New Brunswick	1	x	x	x	x	x	x	x	—	—	x	x	x
Quebec	25	6,754	15,603	37,192	1,448	89,658	197,635	111,043	x	x	11,566	72,846	120,137
Ontario	34	8,342	16,331	42,365	1,490	83,549	167,051	84,855	6	20	13,098	72,249	107,201
Manitoba	2	1,207	2,595	5,537	216	7,870	19,596	11,511	x	x	1,927	9,319	11,895
Saskatchewan	—												
Alberta	9												
British Columbia	11	87	158	437	16	687	1,679	976	x	x	129	696	1,072
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	85	17,198	36,210	88,669	3,324	183,868	394,370	214,535	12	59	27,738	159,443	246,432

TABLE 2. Principal Statistics classified by Size Group based on Value of Shipments of Goods of Own Manufacture, 1964 and 1965

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	
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 .....	...	...	...	...	...	...	...	...	...	...	14	171	(12)
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	86	17,954	38,262	90,398	3,146	193,201	403,776	209,911	10	44	28,643	159,150	219,322
1965													
Under \$10,000	5	19	41	106	4	69	33	(40)	3	9	37	209	241
\$ 10,000 to \$ 24,999	8	12	23	42	4	57	159	98	5	18	20	90	97
25,000 " 49,999	6	15	29	56	3	80	226	143	1	2	23	91	143
50,000 " 99,999	9	39	79	194	10	199	645	435	3	30	51	272	467
100,000 " 199,999	6	57	110	278	15	339	867	536	—	—	75	362	627
200,000 " 499,999	13	293	614	1,303	42	1,678	3,997	2,260	—	—	430	2,096	3,113
500,000 " 999,999	8	392	794	1,824	56	1,988	6,170	4,040	—	—	578	2,817	4,612
1,000,000 " 4,999,999	18	2,544	5,520	12,334	548	19,636	47,777	27,952	—	—	3,664	19,169	30,325
5,000,000 and over	12	13,827	29,000	72,532	2,641	159,821	334,496	179,112	—	—	22,842	134,143	206,818
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	18	194	(12)
Totals	85	17,198	36,210	88,669	3,324	183,868	394,370	214,535	12	59	27,738	159,443	246,432

TABLE 3. Principal Statistics classified by Size Group based on Manufacturing Value Added, 1964 and 1965

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	
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
1965													
Under \$10,000	6	3	5	11	2	31	64	31	4	14	8	46	30
\$ 10,000 to \$ 24,999	11	19	36	62	5	114	314	195	6	29	28	92	195
25,000 " 49,999	5	13	26	58	2	97	273	174	1	8	18	86	174
50,000 " 99,999	12	117	240	559	27	830	1,402	539	1	8	171	847	1,034
100,000 " 199,999	11	190	381	820	40	1,152	3,089	1,781	—	—	357	1,651	2,855
200,000 " 499,999	4	147	297	722	18	648	1,961	1,295	—	—	186	990	1,294
500,000 " 999,999	11	726	1,618	3,763	131	4,085	12,279	7,974	—	—	1,049	5,837	9,691
1,000,000 " 4,999,999	17	3,324	7,203	16,244	718	26,899	62,751	35,489	—	—	5,126	26,898	40,354
5,000,000 and over	8	12,659	26,403	66,430	2,382	150,013	312,239	167,059	—	—	20,777	122,802	190,307
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	18	194	(12)
Totals	85	17,198	36,210	88,669	3,324	183,868	394,370	214,535	12	59	27,738	159,443	246,432

TABLE 4. Principal Statistics classified by Size Group based on Total Value Added, 1964 and 1965

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	
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	681	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	...	...	...	...	...	...	...	...	...	...	...	...
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
1965													
Under \$10,000	6	3	5	11	2	31	64	31	4	14	8	46	30
\$ 10,000 to \$ 24,999	11	19	36	62	5	114	314	195	6	29	28	92	195
25,000 " 49,999	6	43	86	169	5	446	546	88	1	8	61	255	180
50,000 " 99,999	9	59	122	301	11	372	994	611	1	8	80	417	641
100,000 " 199,999	10	166	327	735	38	698	2,208	1,494	—	—	216	1,029	1,588
200,000 " 499,999	5	165	337	827	21	708	1,961	1,232	—	—	221	1,197	1,613
500,000 " 999,999	10	509	1,145	2,530	75	3,141	8,719	5,410	—	—	766	3,956	6,708
1,000,000 " 4,999,999	19	3,161	6,838	15,212	701	26,863	60,844	33,639	—	—	4,696	24,206	35,992
5,000,000 and over	9	13,073	27,316	68,821	2,467	151,496	318,720	171,834	—	—	21,644	128,052	199,496
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	18	194	(11)
Totals	85	17,198	36,210	88,669	3,324	183,868	394,370	214,535	12	59	27,738	159,443	246,432

TABLE 5. Principal Statistics classified by Size Group based on Total Employed, 1964 and 1965

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	
1964													
Under 5 employed	17	29	56	106	7	171	527	349	9	36	41	164	349
5 - 14 employed	13	78	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
1965													
Under 5 employed	19	26	48	95	7	213	569	349	11	51	38	138	349
5 - 14 employed	13	78	160	380	23	451	1,211	737	1	8	109	557	859
15 - 49 "	16	384	822	1,886	61	2,698	6,245	3,501	—	—	500	2,662	3,971
50 - 99 "	6	382	782	1,742	51	1,937	5,708	3,625	—	—	614	2,932	4,861
100-199 "	10	898	1,959	4,692	213	9,597	22,129	12,390	—	—	1,428	7,812	13,931
200-499 "	9	1,988	4,273	9,130	440	15,836	34,377	18,390	—	—	2,865	14,264	19,135
500 employed and over	10	13,442	28,166	70,743	2,530	153,137	324,132	175,543	—	—	22,166	130,884	203,337
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	18	194	(11)
Totals	85	17,198	36,210	88,669	3,324	183,868	394,370	214,535	12	59	27,738	159,443	246,432

TABLE 6. Principal Statistics classified by Type of Organization, 1964 and 1965

Type of organization	Estab- lish- ments	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		Employees		Value added
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
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
1965													
Individual ownerships	10	15	28	55	5	112	310	194	12	59	15	55	194
Partnerships													
Incorporated companies	75	17,183	36,183	88,614	3,319	183,756	394,060	214,340	...	...	27,705	159,194	246,248
Co-operatives .....	—	—	—	—	—	—	—	—	...	...	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	18	194	(11)
Totals	85	17,198	36,210	88,669	3,324	183,868	394,370	214,524	12	59	27,738	159,443	246,442

TABLE 7. Calculation of Output, Input and Value Added, 1964 and 1965

	Manufacturing activity		Non-manufacturing activities		Total activity	
	1964	1965	1964	1965	1964	1965
\$'000						
Output						
1. Shipments and other revenue	403,776	394,370	35,753	93,942	439,528	488,312
Inventories—Goods of own manufacture:						
Add closing—Goods in process .....	—	—	...	...	—	—
Finished goods	13,467	20,892	...	...	13,467	20,892
Deduct opening—Goods in process .....	—	—	...	...	—	—
Finished goods	10,985	13,535	...	...	10,985	13,535
2. Net inventory change	2,482	7,357	...	...	2,482	7,357
3. Gross output (1 + 2)	406,258	401,727	35,753	93,942	442,010	495,669
Input						
4. Purchases of goods not of own manufacture .....	...	...	23,804	58,383	23,804	58,383
Inventories—Goods not of own manufacture:						
Add opening .....	...	...	6,717	7,933	6,717	7,933
Deduct closing .....	...	...	7,833	7,802	7,833	7,802
5. Cost of goods sold (not of own manufacture) .....	...	...	22,688	58,514	22,688	58,514
6. Materials, supplies, etc.	193,201	183,868	3,654	3,531	196,855	187,399
7. Fuel and electricity	3,146	3,324	...	...	3,146	3,324
8. Gross input (5 + 6 + 7)	196,347	187,192	26,342	62,045	222,689	249,207
Value added (3 - 8)	209,911	214,535	9,411	31,897	219,322	246,442

TABLE 8. Employment and Payroll, 1964 and 1965

Year and province	Employees										Salaries and wages				
	Production and related workers				Adminis- trative and office		Sales and distribution		Total		Production and related workers		Admin- istrative and office	Sales and distrib- ution	Total
	Manufacturing		Other								Manufacturing	Other			
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female			Manufacturing	Other	
	number										\$'000				
1964															
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	830	8	-	-	119	77	-	-	949	85	3,657	-	983	-	4,640
New Brunswick															
Quebec	7,538	275	217	60	3,969	993	109	48	11,833	1,376	38,863	1,370	34,505	1,095	75,833
Ontario	7,908	216	123	31	3,081	956	157	36	11,269	1,239	42,395	766	25,154	1,339	69,654
Manitoba															
Saskatchewan	1,058	18	-	-	416	169	36	12	1,510	199	4,922	-	2,852	229	8,003
Alberta															
British Columbia	103	-	12	-	51	17	-	-	166	17	560	60	399	-	1,019
Yukon and Northwest Terri- tories	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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
1965															
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	x	x	x	-	x	x	-	-	x	x	x	x	x	-	x
New Brunswick	x	x	x	-	x	x	-	-	x	x	x	x	x	-	x
Quebec	6,586	168	81	43	3,506	1,003	139	40	10,312	1,254	37,192	547	33,465	1,642	72,846
Ontario	8,130	212	93	24	3,412	1,006	172	49	11,807	1,291	42,365	567	27,836	1,481	72,249
Manitoba															
Saskatchewan	1,187	20	-	-	490	180	36	14	1,713	214	5,537	-	3,494	289	9,319
Alberta															
British Columbia	87	-	-	-	32	10	-	-	119	10	437	-	259	-	696
Yukon and Northwest Terri- tories	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	16,791	407	178	67	7,571	2,274	347	103	24,887	2,851	88,669	1,132	66,231	3,412	159,443

TABLE 9. Production and Related Workers, - Manufacturing Activity, 1964 and 1965

Month	1964		1965	
	Male	Female	Male	Female
	number			
Establishments reporting monthly detail (large establishments only):				
January	16,690	514	17,205	420
February	16,871	518	17,182	411
March	17,048	517	17,180	411
April	16,924	508	14,551	327
May	17,093	507	14,964	341
June	17,553	520	16,888	384
July	16,864	496	16,515	358
August	17,302	500	16,816	391
September	17,212	488	16,519	395
October	17,223	489	17,009	401
November	17,291	493	17,462	410
December	17,128	475	15,130	417
Averages	17,100	503	16,452	391
Establishments reporting annual averages (small establishments only)	337	14	339	16
Average for all establishments	17,437	517	16,791	407

TABLE 10. Inventories, 1965

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	—	—	—	—	—	—
Nova Scotia	x	x	—	x	—	x
New Brunswick	x	x	—	x	—	x
Quebec	9,486	8,195	11,772	29,453	6,362	35,814
Ontario	24,915	9,368	1,764	36,047	1,571	37,619
Manitoba	2,286	1,458	—	3,744	—	3,744
Saskatchewan						
Alberta						
British Columbia	435	475	—	909	—	909
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	37,366	19,525	13,535	70,427	7,933	78,360
Closing:						
Newfoundland	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—
Nova Scotia	x	x	—	x	—	x
New Brunswick	x	x	—	x	—	x
Quebec	12,889	15,575	16,286	44,750	6,259	51,009
Ontario	52,037	15,629	4,606	72,272	1,529	73,801
Manitoba	5,400	2,099	—	7,499	15	7,514
Saskatchewan						
Alberta						
British Columbia	337	399	—	737	—	737
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	70,910	34,182	20,892	125,985	7,802	133,788

TABLE 11. Purchased Fuel and Electricity Used, 1964 and 1965

Description	1964		1965	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
1. Large establishments reporting commodity detail:				
Bituminous coal:				
(a) From Canadian mines	ton	7,487	9,576	106
(b) Imported	"	8,492	6,165	70
Sub-bituminous coal (from Alberta mines only)	"	—	—	—
Anthracite coal	"	295 ^r	600	9
Lignite coal	"	—	—	—
Coke	"	—	—	—
Gasoline (including gasoline used in cars and trucks)	Imp. gal.	2,041,966	1,304,043	309
Fuel oil including kerosene or coal oil	"	9,762,241	10,536,089	947
Wood	cord	—	—	—
Gas:				
(a) Liquefied petroleum gases	Imp. gal.	33,529	93,953	16
(b) Other manufactured gas	M cu. ft.	—	—	—
(c) Natural gas	"	294,651	302,605	156
Other fuel .....	...	33	...	69
Electricity purchased	kwh.	168,066,384	171,639,867	1,536
Steam purchased .....	...	53	...	52
2. Small establishments not reporting commodity detail:				
Estimate for fuel and electricity .....	...	68	...	54
3. All establishments:				
Total fuel and electricity used .....	...	3,146	...	4,324

TABLE 12. Materials and Supplies—Manufacturing Activity, 1964 and 1965

Description	1964		1965	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
1. All materials and components used ¹	168,644	...	157,209
2. Containers and other packaging materials and supplies used	718	...	734
3. Operating, maintenance and repair supplies used (excluding fuel)	15,857	...	19,103
4. Amount paid out to others for work done on materials owned by establishments	7,983	...	6,823
Totals	193,201	...	183,868

¹ No detailed information on materials used was collected from small establishments the estimated costs for which are included here. These estimated costs were \$1,521,834 in 1964 and \$1,615,916 in 1965.

TABLE 13. Shipments of Goods of Own Manufacture, 1964 and 1965

Description	Value	
	1964	1965
	\$'000	
1. Products:		
Aircraft and engines being built but not completed at year-end (value of work done on same)	81,606	73,296
Modifications, conversions, servicing, overhaul and repairs to aircraft, engines, etc. (value of work done)	57,306	58,351
Aircraft parts manufactured	141,754	134,056
All other products made	209,537 ¹	202,765 ¹
Total of above items	490,203	468,468
Less value of work done in previous year on aircraft and engines completed in current year	(94,923)	(73,724)
2. Amount received in payment for work done on materials and products owned by others	8,838	939
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above	(342)	(1,313)
Net adjustment for establishments receiving progress payments	—	—
Total adjusted value of shipments and work done	403,776	394,370

¹ Includes the value of completed aircraft which is confidential.

List of Establishments classified to this Industry, 1965

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

Name	Location
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 Welding & Sheet Metals Co. Ltd.	10790 Edger St., Montreal N.
Amos Aviation Ltée.	St-Mathieu
Bristol Aero-Industries Ltd.	10210 Pie IX Blvd., Montreal N.
Canadair Limited.	Laurentian Blvd., St. Laurent
Cardale Industries Reg'd.	1540 Henri-Bourassa St., Montreal 12
Field Aviation (Quebec) Ltd.	Montreal Intern'l Airport, Dorval
Formier, Raymond, Industries Ltd.	680 Route Nationale, Bois-des-Filiations, Cte Terrebonne

List of Establishments classified to this Industry, 1965 - 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
Plastal Mfg. Limited	476 Edouard St., Granby
Preci-Tools Ltd.	4000 Courtrai Ave., Montreal
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
Boeing of Canada Ltd. (Vertol Div.)	Arnprior
Canadian Flight Equip. Cobourg Ltd.	374 Sidney St., Trenton
Canadian Pratt & Whitney Services Ltd.	90 Sparks St., Ottawa 4
Canus Precision Industries Ltd.	70 Advance Rd., Toronto
Custom Metal Co.	Oshawa Airport, Oshawa
Davitt Components Ltd.	537 Keele St., Toronto 9
De Havilland Aircraft of Canada Ltd., The	Garratt Blvd., Downsview
Douglas Aircraft Co. of Canada Ltd.	Malton
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., Port Erie
Found Bros. Aviation Ltd.	87 Brydon Dr., Rexdale
Garrett Manufacturing Ltd.	4 Racine Rd., 19 Altwell Dr., and 29 Redwood St., 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 Div. of Abex Industries of Canada Ltd.	1680 King St. E., Kitchener
Keamey Aircraft Company	Lake Head Airport, Fort William
Leavens Bros. Ltd.	3220 Dufferin St., Toronto 19
Leggat Aircraft Ltd.	Buttonville Airport, Gormley
Northland Aircraft Services	Port Sydney
Personal Plane Services Ltd.	R.R. 5, Ottawa
Picrite Precision Parts Ltd.	20 Cosentino Drive, Scarborough
Red Lake Seaplane Service	Red Lake
Renfrew Aircraft & Engineering Co. Ltd.	405 Hall Ave., Renfrew
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
Alberta:	
Aviation Forming Ltd.	Fort MacLeod
B & L Aircraft Maintenance Ltd.	Hangar #3, Municipal Airport, Edmonton
Calgary Aero Engines	Bldg. #16, International Airport, Calgary
Crow, Aubrey	Hangar No. 13, Industrial Airport, Edmonton
Custom Air Industries Ltd.	Hangar No. 7, Municipal Airport, Edmonton
Field Aviation Co. Ltd.	McCall Field, Calgary
Northwest Industries Ltd.	Municipal Airport, Edmonton
Satellite Aircraft Ltd.	R.R. No. 1, Winterburn
Western Propeller Co. Ltd.	Hangar No. 16, Municipal Airport, Edmonton
British Columbia:	
Aero Copter Maintenance	4193-104th St., Delta
Aviation Electric Pacific Ltd.	Vancouver Airport, Vancouver
B.C. Aircraft Propeller & Engine Co. Ltd.	Vancouver Airport, Vancouver
Canadian Aircraft Products Ltd.	261 Viscount Way, Richmond
Falrey 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
Pacific Avionics	Vancouver International 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 55 (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 135 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 reports reflect the complete implementation of these changes and enable comparisons to be made back to and including 1961. 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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