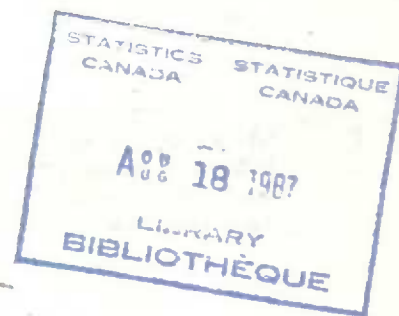


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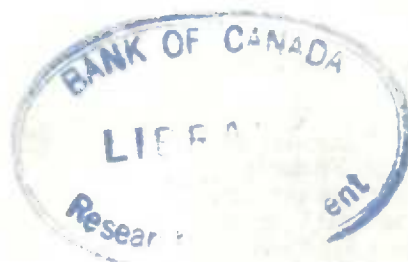
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THE AIRCRAFT AND PARTS INDUSTRY

1954



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NOTICE

The annual reports prepared by the Industry and Merchandising Division of the Bureau of Statistics are divided into 3 volumes, as follows: **Volume I**—The Primary Industries, including mining, forestry and fisheries; **Volume II**—Manufacturing; **Volume III**—Merchandising and Services. The volumes are made up of parts, and the parts in turn are subdivided according to the industries or provinces which they comprise.

Volume II consists of the following parts, the first two of which deal with manufacturing as a whole and the balance with the major manufacturing groups.

- I—General Review of the Manufacturing Industries, \$1.50
- II—The Manufacturing Industries of Canada, (7 sections, as follows:)
 - Section A. Summary for Canada, 25¢
 - Section B. Atlantic Provinces, 25¢
 - Section C. Quebec, 25¢
 - Section D. Ontario, 25¢
 - Section E. Prairie Provinces, 25¢
 - Section F. British Columbia, 25¢
 - Section G. The Manufacturing Industries of Canada,
Regional Distribution, 75¢
- III—Foods and Beverages
- IV—Tobacco and Tobacco Products
- V—Rubber Products
- VI—Leather Products
- VII—Textiles
- VIII—Wood and Paper Products
- IX—Printing Trades
- X—Iron and Steel Products
- XI—Transportation Equipment
- XII—Non-ferrous Metal Products
- XIII—Electrical Apparatus and Supplies
- XIV—Non-metallic Mineral Products
- XV—Products of Petroleum and Coal
- XVI—Chemicals and Allied Products
- XVII—Miscellaneous Manufactures

The present report belongs in Part XI, Transportation Equipment. It is punched to permit of filing in a ring binder along with others of the group. The reports in this group are:

- A—General Review, 25¢
- B—The Aircraft and Parts Industry, 25¢
- C—The Bicycle Manufacturing Industry, 25¢
- D—The Boat Building Industry, 25¢
- E—The Motor Vehicles Industry, 25¢
- F—The Motor Vehicle Parts Industry, 25¢
- G—The Railway Rolling Stock Industry, 25¢
- H—The Shipbuilding Industry, 25¢
- I—The Miscellaneous Transportation Equipment Industry, 25¢

THE AIRCRAFT AND PARTS INDUSTRY

1954

The Aircraft and Parts Industry, as reviewed in this report, is made up of the primary assembly plants and also the establishments which were occupied solely or chiefly in making aircraft parts.

Production from this industry in 1954 amounted to \$343,010,830, a decline of 14 per cent from the \$398,744,272 reported in 1953. Workers employed by the 47 plants in this group numbered 35,095, and

\$135,863,490 were paid in salaries and wages. The amount paid for materials for use in manufacturing was \$158,893,485 and the amount paid for fuel and power was \$2,735,388.

In the 4 assembly plants which constitute the core of the industry there were 26,664 workers in 1954, and production, including an output value of \$186,934,184 for complete aircraft, was valued at \$271,103,565.

TABLE 1. Principal Statistics of the Aircraft and Parts Industry, Significant Years 1929-1954, and by Provinces, 1953 and 1954

Year and province	Estab- lish- ments	En- ployees	Earnings	Cost of fuel and electricity at plant	Cost of materials at plant	Value added by manufacture	Gross selling value of products
	No.	No.	\$	\$	\$	\$	\$
1929	4	217	401,666	7,303	727,832	305,710	1,040,845
1933	5	147	169,053	7,934	97,677	239,606	345,217
1937	8	606	691,934	23,762	879,654	827,308	1,730,724
1939	13	3,596	4,651,615	100,668	1,428,168	11,109,634	12,638,470
1944	45	79,572	161,055,010	2,593,792	137,734,065	286,653,701	426,981,558
1946	16	11,405	24,459,085	787,180	6,708,468	28,715,258	36,210,906
1949	14	10,725	27,443,498	1,070,016	24,315,084	35,713,975	61,099,075
1950	15	10,549	30,174,821	1,209,143	18,149,951	35,908,527	55,267,621
1951	23	19,198	59,558,317	1,492,895	36,291,613	79,403,570	117,188,078
1952	38	33,356	108,667,004	2,024,357	115,286,096	127,296,867	244,607,320
1953							
Quebec	22	14,767	53,646,235	893,926	56,592,155	91,432,301	148,918,382
Ontario	17	20,431	80,284,209	1,414,050	72,332,752	159,922,729	233,669,531
Nova Scotia	1	2,850	8,445,255	130,914	6,832,082	9,193,363	16,156,359
Manitoba	1						
Alberta	1						
British Columbia	1						
Canada	43	38,048	142,375,699	2,438,890	135,756,989	260,548,393	398,744,272
1954							
Quebec	24	11,753	45,995,953	933,083	41,944,613	61,274,483	104,152,179
Ontario	20	20,805	82,833,165	1,655,863	113,048,265	110,206,960	224,911,088
Nova Scotia	1	2,537	7,034,372	146,442	3,900,607	9,900,514	13,947,563
Manitoba	1						
Alberta	1						
Canada	47	35,095	135,863,490	2,735,388	158,893,485	181,381,957	343,010,830

Note. Profits or losses cannot be calculated from above figures as data are not available for general expense items, such as interest, rent, depreciation, taxes, insurance, advertising, etc.

TABLE 2. Principal Statistics, by Subdivisions of Industry, 1953 and 1954

—	Estab- lish- ments	Em- ployees	Earnings	Cost of fuel and electricity at plant	Cost of materials at plant	Value added by manufacture	Gross selling value of products
	No.	No.	\$	\$	\$	\$	\$
1953							
Assembly plants	4	29,655	114,676,674	1,798,800	114,850,621	223,401,304	340,050,725
Parts plants only	39	8,393	27,699,025	640,090	20,906,368	37,147,089	58,693,547
Total	43	38,048	142,375,699	2,438,890	135,756,989	260,548,393	398,744,272
1954							
Assembly plants	4	26,664	106,029,471	1,963,710	129,381,111	139,758,744	271,103,565
Parts plants only	43	8,431	29,834,019	771,678	29,512,374	41,623,213	71,907,265
Total	47	35,095	135,863,490	2,735,388	158,893,485	181,381,957	343,010,830

TABLE 3. Inventories¹, 1954

—	Raw materials and supplies	Goods in process ²	Finished goods of own manufacture	Total
	\$	\$	\$	\$
Opening:				
Quebec	6,631,509	5,265,824	862,338	12,759,671
Ontario	29,633,447	4,617,710	1,194,352	35,445,509
Other provinces	2,634,550	2,224,529	22,583	4,881,662
Canada	38,899,506	12,108,063	2,079,273	53,086,842
Closing:				
Quebec	4,832,878	3,412,583	2,452,780	10,698,241
Ontario	31,236,666	3,776,636	1,134,412	36,147,714
Other provinces	1,820,287	1,760,297	22,608	3,603,192
Canada	37,889,831	8,949,516	3,609,800	50,449,147

1. Book value of all manufacturing inventories owned and held at plant and plant warehouses.

2. Adjusted to allow for progress payments.

Note: Beginning with 1954, information on the value of year-end inventory holdings at plant and plant warehouses is being collected as part of the annual Census of Industry. These data were formerly collected by a separate survey. The summarized results for the Aircraft and Parts Industry for the year under review are shown in the above table.

TABLE 4. Products Made in the Aircraft and Parts Industry, 1953 and 1954

Product	1953		1954	
	Quantity	Selling value at works	Quantity	Selling value at works
	Number	\$	Number	\$
Total aircraft completed in year ²	1	174,847,321	1	186,934,184
Aircraft being built, but not completed at year-end (value of work done) ³	—	74,313,983	—	35,723,548
Repairs to aircraft (value of work done)	—	28,257,062	—	31,072,029
Aircraft parts manufactured	—	54,084,579	—	65,375,143
All other products manufactured, including engines and value of work done on developing aircraft and engines	—	132,511,830	—	101,978,010
Total of above items	—	464,014,775	—	421,082,914
Less value of work done in previous year on aircraft completed in current year	—	65,270,503	—	78,072,084
Total value of production	—	398,744,272	—	343,010,830

1. Not available for publication.

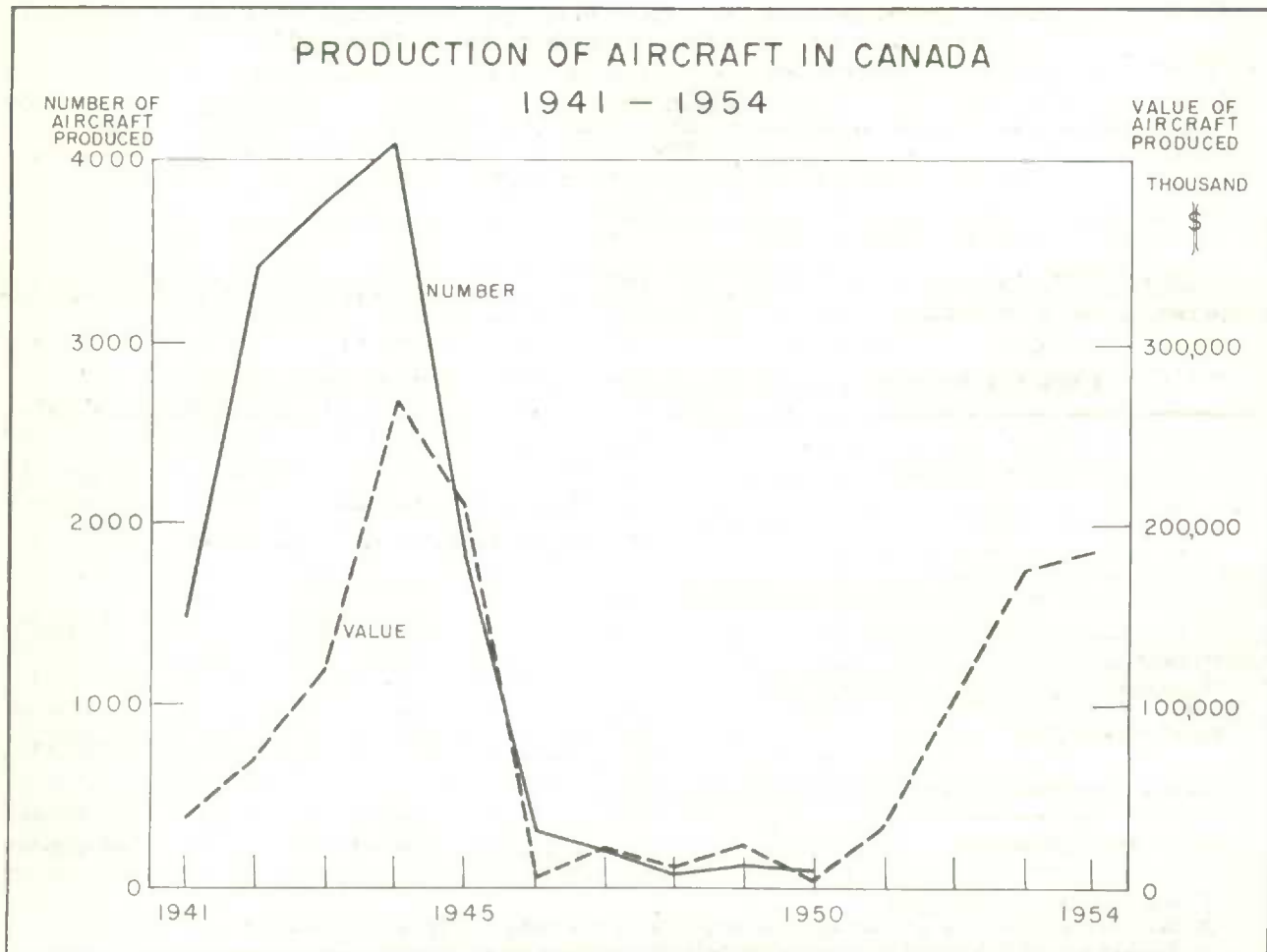
2. Does not include value of equipment and parts supplied as free issue by the government.

3. Figures are lower than actual as they represent only unbilled portion of work done.

TABLE 5. Production of Aircraft in Canada, 1943-1954

Year	Number	Selling value at works	Year	Number	Selling value at works
		\$			\$
1945	1,822	211,861,554	1950	85	2,666,348
1946	308	3,700,453	1951	1	34,701,964
1947	199	20,305,382	1952	1	104,188,368
1948	65	11,816,393	1953	1	174,847,321
1949	117	22,931,615	1954	1	186,934,184

1. Not available for publication.



TRANSPORTATION EQUIPMENT

TABLE 6. Principal Statistics of the Aircraft and Parts Industry, Classified According to Type of Ownership, 1953 and 1954

Type	Estab- lish- ments	Em- ployees	Earnings	Cost at plant of materials used	Gross selling value of products
	No.	No.	\$	\$	\$
1953					
Individual ownership	4	35	103,785	37,726	255,705
Partnerships	1				
Incorporated companies	38	38,013	142,271,914	135,719,263	398,488,567
Total	43	38,048	142,375,699	135,756,989	398,744,272
1954					
Individual ownership	3	42	111,686	14,518	170,284
Partnerships	1				
Incorporated companies	43	35,053	135,751,804	158,878,967	342,840,546
Total	47	35,095	135,863,490	158,893,485	343,010,830

TABLE 7. Principal Statistics of the Aircraft and Parts Industry in Canada, Grouped According to Size of Establishment, 1953 and 1954

Establishments having a production of	Estab- lish- ments	Employees	Earnings	Cost at plant of materials used	Gross selling value of products
	No.	No.	\$	\$	\$
1953					
\$10,000 to \$24,999	2	40	117,779	19,330	198,624
\$25,000 to \$49,999	4				
\$50,000 to \$99,999	3				
\$100,000 to \$199,999	9	184	640,013	96,656	1,205,364
\$200,000 to \$499,999	6	271	987,114	113,482	1,959,574
\$500,000 to \$999,999	5	482	1,788,917	960,286	3,473,037
\$1,000,000 to \$4,999,999	5	2,300	6,822,188	4,189,365	12,760,964
\$5,000,000 and over	9	34,735	131,912,213	130,353,055	378,959,902
Total	43	38,048	142,375,699	135,756,989	398,744,272
1954					
Under \$10,000	2	23	62,168	27,918	98,735
\$25,000 to \$49,999	2				
\$50,000 to \$99,999	8	95	295,172	105,027	555,498
\$100,000 to \$199,999	6	126	451,803	198,527	830,050
\$200,000 to \$499,999	8	373	1,353,783	359,920	2,660,064
\$500,000 to \$999,999	3	180	712,469	874,582	2,138,863
\$1,000,000 to \$4,999,999	9	3,474	12,308,035	7,031,366	24,164,061
\$5,000,000 and over	9	30,824	120,680,060	150,296,145	312,563,559
Total	47	35,095	135,863,490	158,893,485	343,010,830

TABLE 8. Employees and Their Earnings in the Aircraft and Parts Industry, 1950-1954

Year	Number of employees					Earnings		
	Supervisory and office		Production and related workers		Total employees	Supervisory and office	Production and related workers	Total earnings
	Male	Female	Male	Female				
						\$	\$	\$
1950	2,735	845	6,764	205	10,549	11,447,778	18,727,043	30,174,821
1951	4,122	1,363	13,365	348	19,198	19,417,203	40,141,114	59,558,317
1952	7,302	2,428	22,559	1,067	33,356	34,533,237	74,133,767	108,667,004
1953	8,136	2,813	26,380	719	38,048	45,574,126	96,801,573	142,375,699
1954	8,080	2,696	23,560	759	35,095	46,068,342	89,795,148	135,863,490

TABLE 9. Production Workers, by Months, 1953 and 1954

Month	1953			1954		
	Male	Female	Total	Male	Female	Total
January	26,697	654	27,351	25,535	826	26,361
February	27,884	671	28,555	25,062	821	25,883
March	28,059	724	28,783	24,856	732	25,588
April	27,775	766	28,541	25,099	782	25,881
May	27,300	778	28,078	24,621	803	25,424
June	25,614	735	26,349	23,650	828	24,478
July	24,954	722	25,676	22,755	764	23,519
August	24,803	707	25,510	22,454	740	23,194
September	25,343	736	26,079	21,991	714	22,705
October	26,142	725	26,867	21,991	708	22,699
November	26,117	722	26,839	22,195	695	22,889
December	25,901	702	26,603	22,521	694	23,215
Average	26,380	719	27,099	23,560	759	24,319

TABLE 10. Capital and Repair Expenditures in the Aircraft and Parts Industry, 1950-1954

Year	Capital expenditures		Sub-total	Repair and maintenance expenditures		Sub-total	Total capital and repair expenditures
	Construction	Machinery and equipment		Construction	Machinery and equipment		
	\$'000						
1950	1,938	813	2,751	719	940	1,659	4,410
1951	4,683	1,396	6,079	864	1,070	1,934	8,013
1952	6,319	2,059	8,378	1,326	1,729	3,055	11,433
1953	8,272	3,496	11,768	901	3,851	4,752	16,520
1954 ¹	3,534	4,228	7,762	1,214	2,774	3,988	11,750

1. Preliminary.

TABLE 11. Imports of Aircraft and Complete Parts Thereof, Not Including Engines, 1953 and 1954

Item	1953		1954	
	Number	Value	Number	Value
		\$		\$
Aircraft not over 1,500 lb. wt.:				
From United States.....	138	357,838	130	315,395
Aircraft 1,501 to 3,000 lb. wt.:				
From United States.....	85	737,358	63	584,555
From Alaska.....	1	9,500	—	—
Aircraft 3,001 to 7,500 lb. wt.:				
From United Kingdom.....	5	239,984	—	—
From United States.....	70	3,793,756	26	2,679,715
From Cuba.....	1	5,541	—	—
Aircraft over 7,500 lb. wt.:				
From United Kingdom.....	8	2,421,804	2	696,552
From United States.....	80	16,576,442	16	8,513,577
From Iceland.....	1	18,375	—	—
From Jamaica.....	1	33,750	—	—
Total aircraft.....	390	24,194,348	237	12,789,794
Aircraft parts.....	—	87,608,312	—	87,607,237

TABLE 12. Imports of Aircraft Engines and Complete Parts, 1953 and 1954

Item	1953		1954	
	Number	Value	Number	Value
		\$		\$
Engines, aircraft, up to 200 h.p.:				
From United States.....	216	219,916	182	206,725
Engines, aircraft, 201 to 500 h.p.:				
From United Kingdom.....	20	139,915	9	35,147
From United States.....	274	576,458	82	192,650
From Cuba.....	1	1,847	—	—
From Alaska.....	1	2,500	—	—
Engines, aircraft, 501 to 1,000 h.p.:				
From United Kingdom.....	1	9,863	—	—
From United States.....	48	233,546	74	631,638
Engines, aircraft, over 1,000 h.p.:				
From United Kingdom.....	366	9,694,006	302	7,082,606
From Bermuda.....	1	6,500	—	—
From Jamaica.....	2	11,250	—	—
From Iceland.....	2	6,125	—	—
From Hawaii.....	7	52,546	—	—
From France.....	2	7,144	—	—
From United States.....	329	10,793,891	119	4,650,845
Total aircraft engines.....	1,270	21,755,507	768	12,799,617
Parts of aircraft engines.....	—	24,645,963	—	21,848,239

TABLE 13. Exports and Re-exports of Aircraft and Parts, 1953 and 1954

—	1953	1954	—	1953	1954
EXPORTS¹			RE-EXPORTS²		
Aircraft..... No.	374	252	Aircraft..... No.	18	14
\$	24,646,151	12,601,190	\$	313,559	979,820
Aircraft parts..... \$	15,600,356	15,841,058	Aircraft parts..... \$	4,825,410	3,309,303
Total exports..... \$	40,246,507	28,442,248	Total re-exports..... \$	5,138,969	4,289,123

1. Made in Canada.

2. Foreign-made goods re-exported.

Directory of Firms in the Aircraft and Parts Industry, 1954

Name of firm	Location of plant
Nova Scotia:	
Fairey Aviation Co. of Canada Ltd.	Eastern Passage
Quebec:	
Aircraft Welding & Sheet Metals Co. Ltd.	7980-18th Ave., Ville St. Michel
Bristol Aero Engines Limited	10210 Pie IX Blvd., Montreal North 12
Canadian Pratt & Whitney Aircraft Co. Ltd.	150 Lorne Ave., Longueuil
Canadair Limited*	Montée-St-Laurent, St-Laurent
Connor, J.H., & Son Limited	1401 St. Patrick, Montreal
Curtiss-Reid Manufacturing Co. Ltd.	10500 Montée St-Laurent, Ville St-Laurent
Ferndale Industries Reg'd.	8867 Lajeunesse St., Montreal
Godfrey Engineering Co. Ltd.	480 Metropolitan Blvd., Lachine
Gorman Welding Engineering Ltd.	1240 Belanger E., Montreal
Heroux Machine Parts Limited	340 Thurber, Longueuil
Imperial Machine Works Reg'd.	1125 Aqueduct, Montreal 3
Kurt-Mutual Industries Ltd.	420 St. Edouard St., Granby
Lasalle Engineering Ltd.	1225 Conway St., Montreal 22
Leader Products Co. Ltd.	95 St. Zotique St. W., Montreal 14
Noorduyn Norseman Aircraft Ltd.	P.O. Box 5, Montreal
Northern Machinery Co.	184 St. Paul St. W., Montreal
Patenaude Machine Shop	10830 Lajeunesse, Montreal
Precision Automatic Works Reg'd.	3245 Beaubien St. E., Montreal
R.C. Machine Shop	242 St. Jean St., Longueuil
Rolls-Royce of Canada Ltd.	Cote de Liesse Rd., Montreal
Sprague Engineering Ltd.	2215 Beaconsfield Ave., Montreal
Utility Aircraft & Metal Products Ltd.	539 Cowie St., Granby
Valois & Valois Limitée	639 Notre Dame St. W., Montreal 3
Wellington Tool & Die Ltd.	108 Gallery Square, Montreal
Westhill Industries Ltd.	4821-6th Ave., Montreal
Ontario:	
Avro Aircraft Limited*	Malton
Canadian Car & Foundry Co. Ltd.*	Montreal St., Fort William
Canadian Flight Equipment Ltd.	Cobourg
Cockshutt Aircraft Ltd.	Hall St., Renfrew
De Havilland Aircraft of Canada, Limited*	Sheppard Ave., Downsview
Dowty Equipment of Canada, Limited	Ajax
Elliott, W.R., Limited	134 Sydney St. S., Kitchener
Fleet Manufacturing Ltd.	Gilmore Rd., Fort Erie
Found Brothers Aviation Ltd.	Malton
Keicher Engineering Ltd.	1680 King St. E., Kitchener
L.C.S. Metals Corp. Ltd.	147 Mary St., Brantford
Magor Aviation Limited	Argyle Road, Galt
Modern Aircraft Products Ltd.	Main St. E., Kingsville
Murray, F.T., Machine Co. Ltd.	58 Rosemount Ave., Weston
Orillia Equipment Co. Ltd.	Orillia
Prencos Progress & Engineering Corp. Ltd.	72-74 Stafford St., Toronto
Sanderson Aircraft Limited	Malton
Thompson, H.I., Co. of Canada, Ltd.	60 Johnston St., Guelph
Tube Benders & Fabricators Ltd.	Streetsville
York Gears Limited	825 Caledonia Rd., Toronto
Manitoba:	
MacDonald Bros. Aircraft Limited	Stevenson Field, Winnipeg
Alberta:	
Northwest Industries Limited	Municipal Airport, Edmonton

Note. This is not intended to be a complete directory of firms which make aircraft and parts. It is merely a list of the concerns which have been classified to this industry for statistical purposes. It includes the main assembly plants and also the firms which were occupied solely or chiefly in making aircraft parts. The assembly plants are indicated by an (*).

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