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THE AIRCRAFT AND PARTS INDUSTRY

1955



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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, 50¢
 - Section C. Quebec, 25¢
 - Section D. Ontario, 25¢
 - Section E. Prairie Provinces, 40¢
 - 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 — Textile Mills
- VIII — Knitting Mills
- IX — Clothing
 - X — Wood and Paper Products
- XI — Printing Trades
- XII — Iron and Steel Products
- XIII — Transportation Equipment
- XIV — Non-ferrous Metal Products
- XV — Electrical Apparatus and Supplies
- XVI — Non-metallic Mineral Products
- XVII — Products of Petroleum and Coal
- XVIII — Chemicals and Allied Products
- XIX — Miscellaneous Manufactures

The present report belongs in Part XIII, 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

1955

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.

amount paid for materials for use in manufacturing was \$140,831,164 and the amount paid for fuel and electricity was \$4,683,562.

Production from this industry in 1955 amounted to \$354,314,837, an increase of 3.3 per cent over the \$343,010,830 reported in 1954. Workers employed by the 52 plants in this group numbered 33,036 and \$130,269,009 were paid in salaries and wages. The

In the 4 assembly plants which constitute the core of the industry, there were 19,343 workers in 1955 and production, including an output value of \$108,408,292 for complete aircraft, was valued at \$354,314,837.

TABLE 1. Principal Statistics of the Aircraft and Parts Industry, Significant Years 1929-1955, and by Provinces, 1954 and 1955

Year and province	Estab- lish- ments	Em- ployees	Salaries and wages	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
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	43	38,048	142,375,699	2,438,890	158,893,485 135,156,989	181,381,957 260,548,393	343,010,830 398,744,272
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
1955							
Quebec	24	11,066	43,555,248	1,027,754	35,977,014	71,442,013	108,446,781
Ontario	23	19,036	77,331,466	3,446,003	100,513,012	125,984,113	229,943,128
Nova Scotia	2	2,934	8,382,295	209,805	4,341,138	11,373,985	15,924,928
Manitoba	1						
Alberta	1						
British Columbia	1						
Canada	52	33,036	130,269,009	4,683,562	140,831,164	208,800,111	354,314,837

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, 1954 and 1955

	Estab- lish- ments	Em- ployees	Salaries and wages	Cost of fuel and electricity at plant	Cost of materials at plant	Value added by manufacture	Gross selling value of products
	No.	No.	\$	\$	\$	\$	\$
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
1955							
Assembly plants	4 ¹	19,343	76,838,078	1,629,645	74,570,496	135,143,801	210,781,931
Parts plants only	48	13,693	53,430,931	3,053,917	66,260,668	73,656,310	143,532,906
Total	52	33,036	130,269,009	4,683,562	140,831,164	208,800,111	354,314,837

1. In addition, two plants, classified as parts plants, assembled aircraft as a minor part of their operations.

TABLE 3. Inventories¹, 1955

	Raw materials and supplies	Goods in process ²	Finished goods of own manufacture	Total
	\$	\$	\$	\$
Opening:				
Quebec	3,213,625	1,766,772	303,504	5,283,901
Ontario	31,236,170	8,128,459	1,134,412	40,499,041
Other provinces	1,893,284	1,760,297	22,608	3,676,189
Canada	36,343,079	11,655,528	1,460,524	49,459,131
Closing:				
Quebec	3,008,276	3,982,686	281,962	7,272,924
Ontario	29,673,122	3,301,781	1,745,404	34,720,307
Other provinces	1,789,038	1,644,914	88,120	3,522,072
Canada	34,470,436	8,929,381	2,115,486	45,515,303

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.

The opening inventory for 1955 does not necessarily agree with the closing inventory for 1954, because of the addition of new plants, the transfer of plants to other industries and plants going out of business, etc.

TABLE 4. Products Made in the Aircraft and Parts Industry, 1954 and 1955

Product	1954		1955	
	Quantity	Selling value at works	Quantity	Selling value at works
	Number	\$	Number	\$
Total aircraft completed in year ²	1	186,934,184	1	108,408,292
Aircraft being built, but not completed at year-end (value of work done) ³	—	35,723,548	—	46,074,243
Repairs to aircraft (value of work done)	—	31,072,029	—	40,894,582
Aircraft parts manufactured	—	65,375,143	—	73,007,531
All other products manufactured, including engines and value of work done on developing aircraft and engines	—	101,978,010	—	121,870,965
Total of above items	—	421,082,914	—	390,255,613
Less value of work done in previous year on aircraft completed in current year	—	78,072,084	—	35,940,776
Total value of production	—	343,010,830	—	354,314,837

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, 1946-1955

Year	Number	Selling value at works	Year	Number	Selling value at works
		\$			\$
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
1950	85	2,666,348	1955	1	108,408,292

1. Not available for publication.

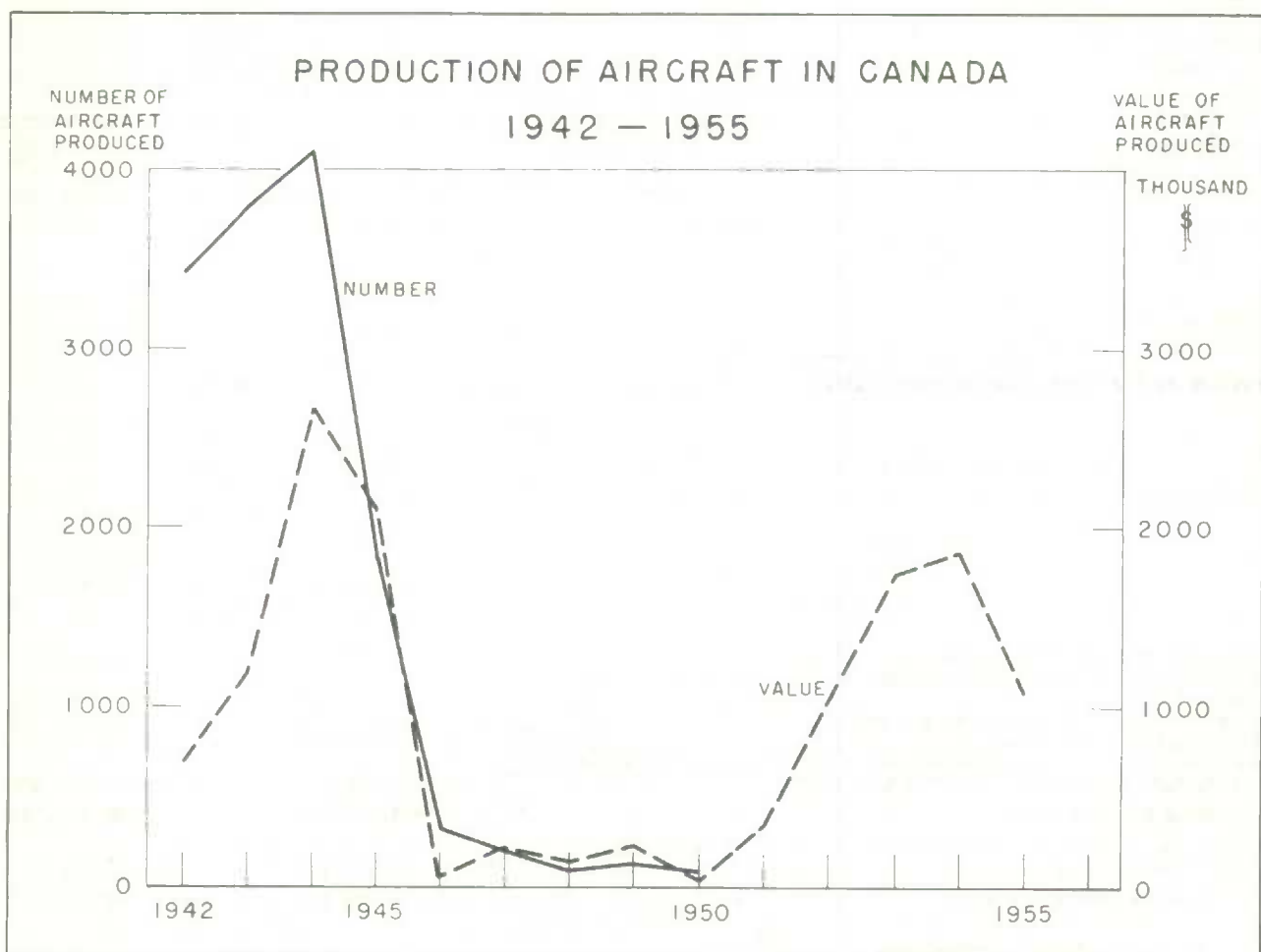


TABLE 6. Principal Statistics of the Aircraft and Parts Industry, Classified According to Type of Ownership, 1954 and 1955

Type	Estab- lish- ments	Em- ployees	Earnings	Cost at plant of materials used	Gross selling value of products
	No.	No.	\$	\$	\$
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
1955					
Individual ownership	3	43	177,104	45,654	309,168
Partnerships	1				
Incorporated companies	48	32,993	130,091,905	140,785,510	354,005,669
Total	52	33,036	130,269,009	140,831,164	354,314,837

TABLE 7. Principal Statistics of the Aircraft and Parts Industry in Canada, Grouped According to Size of Establishment, 1954 and 1955

Establishments having a production of	Estab- lish- ments	Em- ployees	Earnings	Cost at plant of materials used	Gross selling value of products
	No.	No.	\$	\$	\$
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
1955					
\$10,000 to \$24,999	2	38	127,589	21,633	153,581
\$25,000 to \$49,999	3				
\$50,000 to \$99,999	8	90	332,462	93,459	574,426
\$100,000 to \$199,999	10	234	788,415	411,410	1,473,872
\$200,000 to \$499,999	8	401	1,515,018	1,133,294	3,077,488
\$500,000 to \$999,999	1				
\$1,000,000 to \$4,999,999	10	3,531	12,463,696	6,086,875	22,578,094
\$5,000,000 and over	10	28,742	115,041,829	133,084,493	326,457,376
Total	52	33,036	130,269,009	140,831,164	354,314,837

TABLE 8. Employees and Their Earnings in the Aircraft and Parts Industry, 1951-1955

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				
						\$	\$	\$
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
1955	9,092	2,622	20,746	576	33,036	52,198,947	78,070,062	130,269,009

TABLE 9. Production Workers, by Months, 1954 and 1955

Month	1954			1955		
	Male	Female	Total	Male	Female	Total
	Number					
January	25,535	826	26,361	21,577	646	22,223
February	25,062	821	25,883	21,726	633	22,359
March	24,856	732	25,588	21,556	607	22,163
April	25,099	782	25,881	21,494	605	22,099
May	24,621	803	25,424	21,100	591	21,691
June	23,650	828	24,478	20,912	594	21,506
July	22,755	764	23,519	18,594	532	19,126
August	22,454	740	23,194	19,081	525	19,606
September	21,991	714	22,705	19,484	516	20,000
October	21,991	708	22,699	19,995	522	20,517
November	22,195	695	22,889	21,345	568	21,913
December	22,521	694	23,215	22,101	574	22,675
Average	23,560	759	24,319	20,746	576	21,322

TABLE 10. Capital and Repair Expenditures in the Aircraft and Parts Industry, 1951-1955

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						
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	4,017	4,354	8,371	1,212	2,986	4,198	12,569
1955 ¹	3,546	6,053	9,599	1,474	1,967	3,441	13,040

1. Preliminary.

TABLE 11. Imports of Aircraft and Complete Parts Thereof, Not Including Engines, 1954 and 1955

Item	1954		1955	
	Number	Value	Number	Value
		\$		\$
Aircraft not over 1,500 lb. wt.:				
From United States	130	315,395	158	435,461
From other countries	—	—	10	22,090
Aircraft 1,501 to 3,000 lb. wt.:				
From United States	63	584,555	136	1,156,620
From other countries	—	—	2	21,512
Aircraft 3,001 to 7,500 lb. wt.:				
From United Kingdom	—	—	2	88,562
From United States	26	2,679,715	33	2,797,797
From other countries	—	—	—	—
Aircraft over 7,500 lb. wt.:				
From United Kingdom	2	696,552	25	8,644,278
From United States	16	8,513,577	100	38,003,385
From other countries	—	—	4	246,863
Total aircraft	237	12,789,794	470	51,416,568
Aircraft parts	—	87,607,237	—	86,674,721

TABLE 12. Imports of Aircraft Engines and Complete Parts, 1954 and 1955

Item	1954		1955	
	Number	Value	Number	Value
		\$		\$
Engines, aircraft, up to 200 h.p.:				
From United States	182	206,725	222	431,938
From other countries	—	—	11	15,798
Engines, aircraft, 201 to 500 h.p.:				
From United Kingdom	9	35,147	5	5,467
From United States	82	192,656	219	755,087
From other countries	—	—	1	2,099
Engines, aircraft, 501 to 1,000 h.p.:				
From United Kingdom	—	—	4	34,093
From United States	74	631,638	39	410,872
Engines, aircraft, over 1,000 h.p.:				
From United Kingdom	302	7,082,606	273	5,348,149
From United States	119	4,650,845	454	8,255,665
From other countries	—	—	8	49,260
Total aircraft engines	768	12,799,617	1,236	15,308,428
Parts of aircraft engines	—	21,848,239	—	18,106,741

TABLE 13. Exports and Re-exports of Aircraft and Parts, 1954 and 1955

—			—		
	1954	1955		1954	1955
EXPORTS ¹			RE-EXPORTS ²		
Aircraft..... No.	252	193	Aircraft..... No.	13	17
..... \$	12,601,190	8,848,952 \$	979,820	326,165
Aircraft parts..... \$	15,841,058	11,056,833	Aircraft parts..... \$	3,309,303	1,792,906
Total exports..... \$	28,442,248	19,905,785	Total re-exports..... \$	4,289,123	2,119,071

1. Made in Canada.

2. Foreign-made goods re-exported.

Directory of Firms in the Aircraft and Parts Industry, 1955

Name of firm	Location of plant
Nova Scotia:	
Enamel & Heating Products Ltd.	Amherst
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 1X 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
Femdale Industries Reg'd.	8867 Lajeunesse St., Montreal
Godfrey Engineering Co. Ltd.	480 Metropolitan Blvd., Lachine
Gorman Welding Engineering Ltd.	4289 Majeau, Montreal
Heroux Machine Parts Limited	340 Thurber, Longueuil
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.	Côte de Liesse Rd., Montreal
Service Tool & Die Ltd.	2130 Bleury, 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
Westhill Industries Ltd.	4821-6th Ave., Montreal
Ontario:	
Aeroquip (Canada) Ltd.	287 Bridgeland, Toronto
Aero Equipment of Canada Ltd.	Kipling Ave., Toronto
Avro Aircraft Limited*	Malton
Canadian Car & Foundry Co. Ltd.*	Montreal St., Fort William
Canadian Flight Equipment Ltd.	Cobourg
Davair Components Ltd.	537 Keele, Toronto
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
Orenda Engines Ltd.	Malton
Orillia Equipment Co. Ltd.	Orillia
Renfrew Aircraft & Engineering Co. Ltd.	Renfrew
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:	
Bristol Aircraft (Western) Ltd.	Berry St., St. James
Alberta:	
Northwest Industries Limited	Municipal Airport, Edmonton
British Columbia:	
Leader Industrial Corporation Ltd.	New Westminster

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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