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# THE AIRCRAFT AND PARTS INDUSTRY

## 1956

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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

## 1956

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 1956 amounted to \$354,510,085, a slight increase over the \$354,314,837 reported in 1955. Workers employed by the 52 plants in this group numbered 35,563 and \$146,428,014 were paid in salaries and wages. The

amount paid for materials for use in manufacturing was \$138,155,854 and the amount paid for fuel and electricity was \$4,084,546.

In the 4 assembly plants which constitute the core of the industry, there were 21,426 workers in 1956 and production, including an output value of \$94,625,746 for complete aircraft, was valued at \$207,685,710.

**TABLE 1. Principal Statistics of the Aircraft and Parts Industry, Significant Years 1929-1956 and by Provinces, 1955 and 1956**

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	137,734,055	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
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	135,756,989	260,548,393	398,744,272
1954 .....	47	35,095	135,863,490	2,735,388	158,893,485	181,381,957	343,010,830
<b>1955</b>							
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						
<b>Canada .....</b>	<b>52</b>	<b>33,036</b>	<b>130,269,009</b>	<b>4,683,562</b>	<b>140,831,164</b>	<b>208,800,111</b>	<b>354,314,837</b>
<b>1956</b>							
Quebec .....	24	12,643	52,036,156	1,255,075	43,213,506	86,936,528	131,405,109
Ontario .....	24	19,868	83,964,069	2,590,727	90,764,813	112,784,782	206,140,322
Nova Scotia .....	2	3,052	10,427,789	238,744	4,177,535	12,548,375	16,964,654
Manitoba .....	1						
Alberta .....	1						
<b>Canada .....</b>	<b>52</b>	<b>35,563</b>	<b>146,428,014</b>	<b>4,084,546</b>	<b>138,155,854</b>	<b>212,269,685</b>	<b>354,510,085</b>

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, 1955 and 1956

	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.	\$	\$	\$	\$	\$
1955							
Assembly plants .....	4 <sup>1</sup>	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
<b>Total .....</b>	<b>52</b>	<b>33,036</b>	<b>130,269,009</b>	<b>4,683,562</b>	<b>140,831,164</b>	<b>208,800,111</b>	<b>354,314,837</b>
1956							
Assembly plants .....	4 <sup>1</sup>	21,426	87,940,379	1,640,799	73,554,865	132,490,046	207,685,710
Parts plants only .....	48	14,137	58,487,635	2,443,747	64,600,989	79,779,639	146,824,375
<b>Total .....</b>	<b>52</b>	<b>35,563</b>	<b>146,428,014</b>	<b>4,084,546</b>	<b>138,155,854</b>	<b>212,269,685</b>	<b>354,510,085</b>

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

TABLE 3. Inventories<sup>1</sup>, 1956

	Raw materials and supplies	Goods in process <sup>2</sup>	Finished goods of own manufacture	Total
	\$	\$	\$	\$
Opening:				
Quebec .....	3,559,620	4,748,706	496,834	8,805,160
Ontario .....	29,703,505	3,324,022	1,745,404	34,772,931
Other provinces .....	1,789,038	1,644,914	88,120	3,522,072
<b>Canada .....</b>	<b>35,052,163</b>	<b>9,717,642</b>	<b>2,330,358</b>	<b>47,100,163</b>
Closing:				
Quebec .....	4,654,292	5,071,096	1,874,360	11,599,748
Ontario .....	26,945,726	3,218,182	1,241,158	31,405,066
Other provinces .....	1,825,108	1,048,331	—	2,873,439
<b>Canada .....</b>	<b>33,425,126</b>	<b>9,337,609</b>	<b>3,115,518</b>	<b>45,878,253</b>

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 1956 does not necessarily agree with the closing inventory for 1955, 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, 1955 and 1956

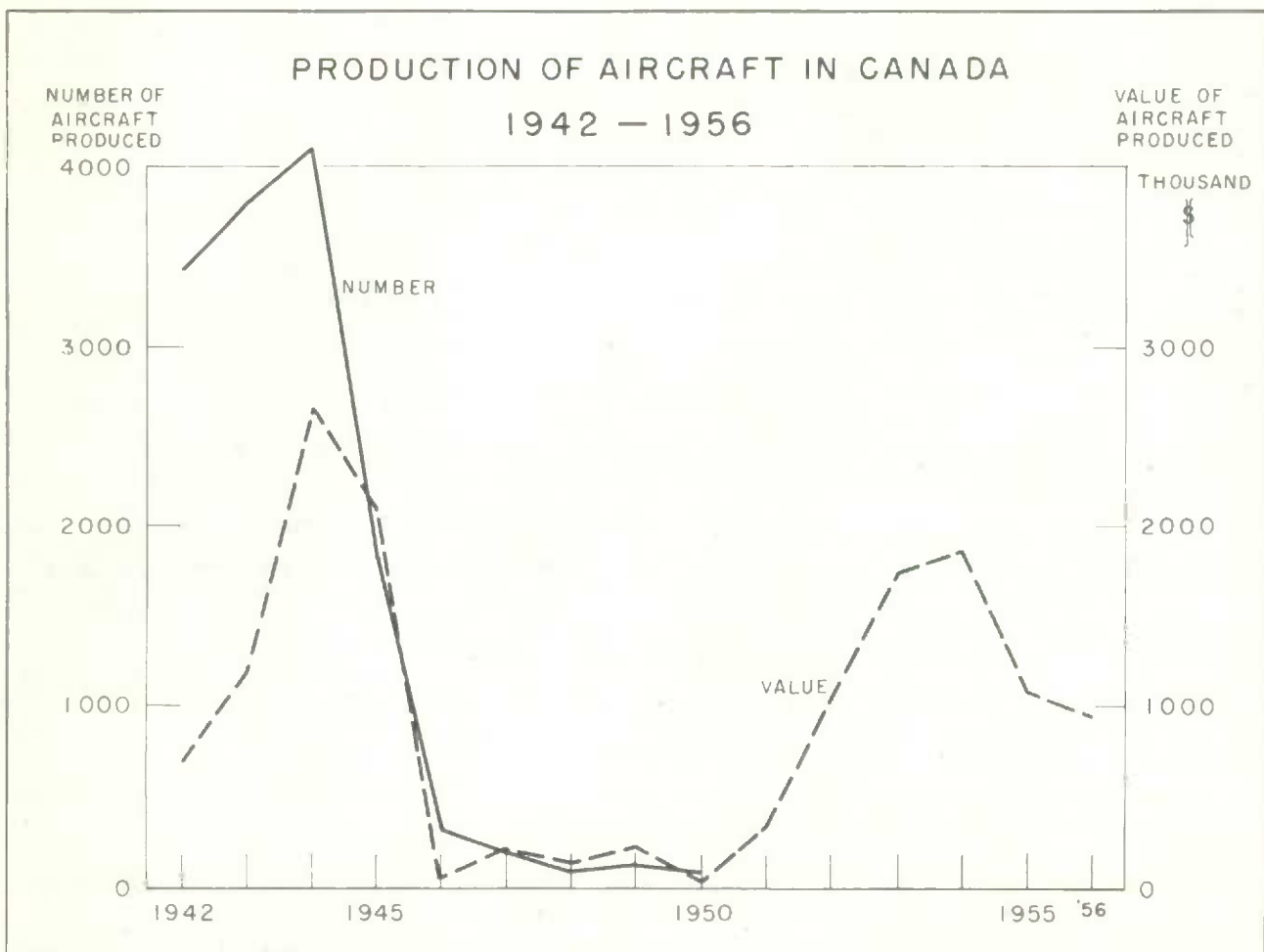
Product	1955		1956	
	Quantity	Selling value at works	Quantity	Selling value at works
	Number	\$	Number	\$
Total aircraft completed in year <sup>2</sup> .....	1	108,408,292	1	94,625,746
Aircraft being built, but not completed at year-end (value of work done) <sup>3</sup> .....	—	46,074,243	—	54,905,130
Repairs to aircraft (value of work done) .....	—	40,894,582	—	43,831,399
Aircraft parts manufactured .....	—	73,007,531	—	85,526,471
All other products manufactured, including engines and value of work done on developing aircraft and engines .....	—	121,870,965	—	123,547,127
<b>Total of above items .....</b>	<b>—</b>	<b>390,255,613</b>	<b>—</b>	<b>402,435,873</b>
Less value of work done in previous year on aircraft completed in current year .....	—	35,940,776	—	47,925,788
<b>Total value of production .....</b>	<b>—</b>	<b>354,314,837</b>	<b>—</b>	<b>354,510,085</b>

1. Not available for publication.
2. Does not include value of equipment and parts supplied as free issue by the government.
3. (a) Figures are lower than actual as they represent only unbilled portion of work done.  
(b) The total shown for 1956 included as well the value of work done on engines.

TABLE 5. Production of Aircraft in Canada, 1947-1956

Year	Number	Selling value at works	Year	Number	Selling value at works
		\$			\$
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
1951.....	1	34,701,964	1956.....	1	94,625,746

1. Not available for publication.





**TABLE 6. Principal Statistics of the Aircraft and Parts Industry, Classified According to Type of Ownership, 1955 and 1956**

Type	Estab- lish- ments	Em- ployees	Salaries and wages	Cost at plant of materials used	Gross selling value of products
	No.	No.	\$	\$	\$
<b>1955</b>					
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
<b>Total</b> .....	<b>52</b>	<b>33,036</b>	<b>130,269,009</b>	<b>140,831,164</b>	<b>354,314,837</b>
<b>1956</b>					
Individual ownership .....	3	23	89,930	32,727	213,922
Incorporated companies .....	49	35,540	146,338,084	138,123,127	354,296,163
<b>Total</b> .....	<b>52</b>	<b>35,563</b>	<b>146,428,014</b>	<b>138,155,854</b>	<b>354,510,085</b>

**TABLE 7. Principal Statistics of the Aircraft and Parts Industry in Canada, Grouped According to Selling Value of Products, 1955 and 1956**

Establishments having a production of	Estab- lish- ments	Em- ployees	Salaries and wages	Cost at plant of materials used	Gross selling value of products
	No.	No.	\$	\$	\$
<b>1955</b>					
Under \$10,000 .....	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
<b>Total</b> .....	<b>52</b>	<b>33,036</b>	<b>130,269,009</b>	<b>140,831,164</b>	<b>354,314,837</b>
<b>1956</b>					
\$10,000 to \$24,999 .....	1	153	504,796	139,715	839,539
\$25,000 to \$49,999 .....	1				
\$50,000 to \$99,999 .....	10	171	675,178	306,081	1,306,826
\$100,000 to \$199,999 .....	9				
\$200,000 to \$499,999 .....	10	541	2,124,668	1,523,927	4,505,212
\$500,000 to \$999,999 .....	2				
\$1,000,000 to \$4,999,999 .....	10	3,915	14,582,847	8,363,439	27,101,506
\$5,000,000 and over .....	9	30,783	128,540,525	127,822,692	320,757,002
<b>Total</b> .....	<b>52</b>	<b>35,563</b>	<b>146,428,014</b>	<b>138,155,854</b>	<b>354,510,085</b>

TABLE 8. Employees and Their Earnings in the Aircraft and Parts Industry, 1952-1956

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				
						\$	\$	\$
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
1956.....	10,159	2,917	21,920	567	35,563	60,860,882	85,567,132	146,428,014

TABLE 9. Production Workers, by Months, 1955 and 1956

Month	1955			1956		
	Male	Female	Total	Male	Female	Total
	Number					
January .....	21,577	646	22,223	22,206	561	22,767
February .....	21,726	633	22,359	22,236	566	22,802
March.....	21,556	607	22,163	22,433	578	23,011
April .....	21,494	605	22,099	22,137	569	22,706
May .....	21,100	591	21,691	21,949	578	22,527
June.....	20,912	594	21,506	21,880	588	22,468
July .....	18,594	532	19,126	20,642	539	21,181
August.....	19,081	525	19,606	21,029	542	21,571
September .....	19,484	516	20,000	21,467	552	22,019
October .....	19,995	522	20,517	22,112	551	22,663
November .....	21,345	568	21,913	22,410	562	22,972
December .....	22,101	574	22,675	22,551	573	23,124
Average.....	20,746	576	21,322	21,920	567	22,487

TABLE 10. Capital and Repair Expenditures in the Aircraft and Parts Industry, 1952-1956

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						
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.....	3,413	7,165	10,578	1,557	2,439	3,996	14,574
1956 <sup>1</sup> .....	3,026	6,880	9,906	1,185	2,113	3,298	13,204

1. Preliminary.

TABLE 11. Imports of Aircraft and Complete Parts Thereof, Not Including Engines, 1955 and 1956

Item	1955		1956	
	Number	Value	Number	Value
		\$		\$
Aircraft not over 1,500 lb. wt.:				
From United States .....	158	435,461	263	971,068
From other countries .....	10	22,090	5	7,690
Aircraft 1,501 to 3,000 lb. wt.:				
From United States .....	136	1,156,620	129	1,438,125
From other countries .....	2	21,512	1	750
Aircraft 3,001 to 7,500 lb. wt.:				
From United Kingdom .....	2	88,562	—	—
From United States .....	33	2,797,797	31	2,196,392
From other countries .....	—	—	—	—
Aircraft over 7,500 lb. wt.:				
From United Kingdom .....	25	8,644,278	4	2,965,967
From United States .....	100	38,003,385	64	11,113,256
From other countries .....	4	246,863	2	186,250
<b>Total aircraft .....</b>	<b>470</b>	<b>51,416,568</b>	<b>499</b>	<b>18,879,498</b>
Aircraft parts .....	—	86,674,721	—	72,424,420

TABLE 12. Imports of Aircraft Engines and Complete Parts, 1955 and 1956

Item	1955		1956	
	Number	Value	Number	Value
		\$		\$
Engines, aircraft, up to 200 h.p.:				
From United States .....	222	431,938	313	381,716
From other countries .....	11	15,798	9	9,272
Engines, aircraft, 201 to 500 h.p.:				
From United Kingdom .....	5	5,467	11	51,049
From United States .....	219	755,087	207	618,683
From other countries .....	1	2,099	—	—
Engines, aircraft, 501 to 1,000 h.p.:				
From United Kingdom .....	4	34,093	1	6,089
From United States .....	39	410,872	66	481,228
Engines, aircraft, over 1,000 h.p.:				
From United Kingdom .....	273	5,348,149	51	1,026,513
From United States .....	454	8,255,665	461	10,167,341
From other countries .....	8	49,260	5	52,542
<b>Total aircraft engines .....</b>	<b>1,236</b>	<b>15,308,428</b>	<b>1,124</b>	<b>12,794,433</b>
Parts of aircraft engines .....	—	18,106,741	—	20,128,952

TABLE 13. Exports<sup>3</sup> and Re-exports of Aircraft and Parts, 1955 and 1956

—		1955	1956	—		1955	1956
EXPORTS <sup>1</sup>				RE-EXPORTS <sup>2</sup>			
Aircraft .....	No.	193	281	Aircraft .....	No.	17	34
	\$	8,848,952	26,837,104		\$	326,165	2,157,902
Aircraft parts .....	\$	11,056,833	22,707,703	Aircraft parts .....	\$	1,792,906	3,419,288
<b>Total exports .....</b>	<b>\$</b>	<b>19,905,785</b>	<b>49,544,807</b>	<b>Total re-exports .....</b>	<b>\$</b>	<b>2,119,071</b>	<b>5,577,190</b>

1. Made in Canada.

2. Foreign-made goods re-exported.

3. The above statistics of exports do not include defence equipment or supplies transferred by Canada to North Atlantic Treaty countries under the Defence Appropriation Act.



TABLE 14. Fuel and Electricity Used in the Aircraft and Parts Industry, 1956

Kind	Unit of measure	Quantity	Cost at works
			\$
Bituminous coal — Canadian .....	tons	7,645	85,679
Imported .....	tons	18,114	183,412
Gasoline (including gasoline used in cars and trucks) .....	imp. gal.	639,171	209,562
Kerosene .....	imp. gal.	2,998	768
Fuel oil .....	imp. gal.	8,734,964	859,199
Gas — liquefied petroleum gases .....	imp. gal.	142,341	37,397
Other manufactured .....	1,000 cu. ft.	5,437	9,937
Natural .....	1,000 cu. ft.	94,607	47,550
Other fuel <sup>1</sup> .....	—	—	1,294,502
Electricity used .....	k.w.h.	130,950,742	1,356,540
<b>Total</b> .....	—	—	<b>4,084,546</b>

1. Includes fuel for flying and testing aircraft and engines used by reporting companies.

## Directory of Firms in the Aircraft and Parts Industry, 1956

Name of firm	Location of plant
<b>Nova Scotia:</b>	
Enamel & Heating Products Ltd. ....	Amherst
Fairey Aviation Co. of Canada Ltd. ....	Eastern Passage
<b>Quebec:</b>	
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. ....	P.O. Box 10, Longueuil
Canadair Limited* .....	Montée-St-Laurent, St-Laurent
Curtiss-Reid Manufacturing Co. Ltd. ....	10500 Montée St-Laurent, Ville St-Laurent
Ferndale Industries Reg'd. ....	1540 Henri Bourassa, Montreal
Godfrey Engineering Co. Ltd. ....	480 Metropolitan Blvd., Lachine
Gorman Welding Engineering Ltd. ....	4289 Majeau, Montreal
Heroux Machine Parts Limited .....	340 Thurber, Longueuil
Jarry Hydraulics .....	4384 St. Denis, Montreal
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
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
<b>Ontario:</b>	
Aeroquip (Canada) Ltd. ....	287 Bridgeland, Toronto
Aro Equipment of Canada Ltd. ....	Kipling Ave., Toronto
Avro Aircraft Limited* .....	Malton
Campbellford Precision Products Ltd. ....	Cobourg
Canadian Car & Foundry Co. Ltd.* .....	Montreal St., Fort William
Davair Components Ltd. ....	537 Keele, Toronto
De Havilland Aircraft of Canada, Limited* .....	Sheppard Ave., Downsview
Dowty Equipment of Canada, Limited .....	Ajax

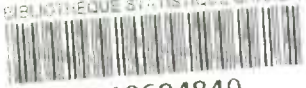
## Directory of Firms in the Aircraft and Parts Industry, 1956

Name of firm	Location of plant
<b>Ontario—concluded:</b>	
Elliott, W.R., Limited .....	134 Sydney St. S., Kitchener
Fleet Manufacturing Ltd. ....	Gilmore Rd., Fort Erie
Garratt Aircraft Ltd. ....	Hangar No. 2, Malton
Garrett Mfg. Corp. Of Canada Ltd. ....	Racine Rd. Rexdale
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
<b>Manitoba:</b>	
Bristol Aircraft (Western) Ltd. ....	Berry St., St. James
<b>Alberta:</b>	
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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