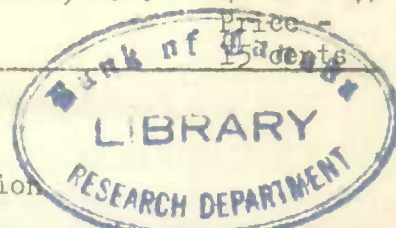


Published by Authority of the Rt. Hon. C. D. Howe, M.P. . A48-11-2-49  
Minister of Trade and Commerce

Department of Trade and Commerce  
Dominion Bureau of Statistics  
Industry and Merchandising Division  
Mining, Metallurgical and Chemical Section  
Ottawa - Canada



Dominion Statistician: Herbert Marshall  
Director - Industry and Merchandising Division: W. H. Losee  
Chief - Mining, Metallurgical and Chemical Section: H. McLeod

Annual Industry Report

Iron and Steel and Their Products Group

THE AIRCRAFT INDUSTRY - 1947

The aircraft 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 1947 amounted to \$44,303,576 or 22.3 per cent more than in 1946. An average of 9,374 persons were given employment and \$21,422,060 were paid in salaries and wages. The amount paid for materials for use in manufacturing was \$16,190,747 and the amount paid for fuel and power was \$749,639.

In the 7 assembly plants which constitute the core of the industry there were 8,603 workers in 1947, and production, including 199 complete aircraft was valued at \$40,755,251.

Plants which were occupied only in repairing or overhauling aircraft or aircraft engines have not been included in this industry.

Table 1 - PRINCIPAL STATISTICS OF THE AIRCRAFT INDUSTRY, 1938-1947

Year	Number of plants	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
			\$	\$	\$	\$
1938 .....	13	1,617	2,093,717	63,501	2,709,384	6,927,105
1939 .....	13	3,596	4,651,615	100,668	1,428,168	12,638,470
1940 .....	19	10,348	13,733,045	281,515	6,813,343	26,567,902
1941 .....	24	26,661	39,942,017	649,801	19,937,484	81,367,910
1942 .....	42	44,886	76,334,141	1,180,589	46,252,255	151,554,598
1943 .....	45	69,529	126,826,708	1,749,421	60,448,010	246,028,586
1944 .....	45	79,572	161,055,010	2,593,792	137,734,065	426,981,558
1945 .....	38	37,812	84,230,503	1,813,007	115,093,267	278,652,880
1946 .....	16	11,405	24,459,085	787,180	6,708,468	36,210,906
1947 .....	12	9,374	21,422,060	749,639	16,190,747	44,303,576
Per cent change- 1947 from 1946 ..		-17.8	-12.4	-4.8	+141.3	+22.3

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.

This report was prepared by: J.J.Parchelo, Statistician, Metal & Chemical Products.

Table 2 - PRINCIPAL STATISTICS, BY SUBDIVISIONS OF INDUSTRY, 1945-1947

Year	Number of plants	Average number of em- ployees	Salaries and wages \$	Cost of fuel and electricity at works \$	Cost of materials at works \$	Selling value of products at works \$
<u>1945</u>						
Assembly plants..	7	27,525	63,234,214	1,194,518	101,390,451	241,774,736
Parts plants only	31	10,287	20,996,289	618,489	13,702,816	36,878,144
Total .....	38	37,812	84,230,503	1,813,007	115,093,267	278,652,880
<u>1946</u>						
Assembly plants..	5	8,719	18,645,707	439,159	4,178,353	26,006,795
Parts plants only	11	2,686	5,813,378	348,021	2,530,115	10,204,111
Total .....	16	11,405	24,459,085	787,180	6,708,468	36,210,906
<u>1947</u>						
Assembly plants..	7	8,603	19,753,276	586,320	14,714,912	40,755,251
Parts plants only	5	771	1,668,784	163,319	1,475,835	3,548,325
Total .....	12	9,374	21,422,060	749,639	16,190,747	44,303,576

Table 3 - PRINCIPAL STATISTICS, BY PROVINCES, 1946 and 1947

Province	Number of plants	Average number of em- ployees	Salaries and wages \$	Cost of fuel and electricity at works \$	Cost of materials at works \$	Selling value of products at works \$
<u>1946</u>						
Quebec .....	8	8,935	19,129,503	532,249	4,702,362	29,486,360
Ontario .....	6)					
Manitoba ...	1)	2,470	5,329,582	254,931	2,006,106	6,724,546
Saskatchewan	1)					
CANADA ..	16	11,405	24,459,085	787,180	6,708,468	36,210,906
<u>1947</u>						
Quebec .....	5	6,774	15,320,174	493,205	13,287,604	35,500,827
Ontario .....	5)					
Manitoba ...	2)	2,600	6,101,886	256,434	2,903,143	8,802,749
CANADA ..	12	9,374	21,422,060	749,639	16,190,747	44,303,576

## Aircraft

- 3 -

Table 4 - WAGE-EARNERS, BY MONTHS, 1946 and 1947 (On the last work day of each month)

Month	1 9 4 6			1 9 4 7		
	Male	Female	Total	Male	Female	Total
January .....	5,485	258	5,743	7,567	344	7,911
February .....	6,086	281	6,367	7,239	317	7,556
March .....	7,055	312	7,367	7,154	305	7,459
April .....	7,730	332	8,062	7,003	309	7,312
May .....	8,308	345	8,653	6,903	306	7,209
June .....	8,641	353	8,994	7,155	305	7,460
July .....	8,761	353	9,114	7,085	293	7,378
August .....	8,765	411	9,176	6,478	223	6,701
September .....	8,486	420	8,906	5,938	199	6,137
October .....	8,289	392	8,681	4,949	142	5,091
November .....	8,048	375	8,418	5,147	157	5,304
December .....	8,058	350	8,408	5,175	153	5,328
AVERAGE .....	7,809	349	8,158	6,483	255	6,738

Table 5 - FUEL AND ELECTRICITY USED, 1946 and 1947

Kind	Unit of measure	1 9 4 6		1 9 4 7	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Bituminous coal--Canadian	short ton	2,235	19,879	...	...
Imported	short ton	20,488	192,187	18,524	183,019
Anthracite coal .....	short ton	448	4,513	256	4,468
Lignite coal .....	short ton	6,500	27,850	6,741	28,541
Coke .....	short ton	24	312	10	163
Gasoline .....	Imp.gal.	486,017	154,492	669,831	210,510
Kerosene .....	Imp.gal.	8,347	1,817	11,004	2,359
Fuel oil .....	Imp.gal.	666,453	54,331	675,427	55,134
Wood .....	cord	102	816	...	...
Gas - Manufactured .....	M cu.ft.	2,044	2,210	502	572
Natural .....	M cu.ft.	3,482	2,785	1,942	1,549
Other fuel .....	...	...	17,122	...	18,438
Electricity .....	K.W.H.	25,319,430	308,866	31,779,273	244,886
TOTAL .....	...	...	787,180	...	749,639

Table 6 - POWER EQUIPMENT, 1946 and 1947

	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total rated horse power	Number of units	Total rated horse power
	1 9 4 6			
Steam engines and turbines .....	...	...	...	...
Gasoline, gas and oil engines ..	3	168	3	255
Diesel engines .....	1	90	...	...
Electric motors run by purchased power .....	6,148	17,946	258	1,549
TOTAL .....	6,152	18,204	261	1,804
Electric motors run by above primary units .....	...	...	...	...
Stationary power boilers .....	5	840	4	360
Motor-generator sets .....	48	1,984	1	150

Table 6 - POWER EQUIPMENT, 1946 and 1947 (Concluded)

	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total rated horse power	Number of units	Total rated horse power
<u>1 9 4 7</u>				
Steam engines and turbines .....	...	...	...	...
Gasoline, gas and oil engines ..	...	...	5	318
Diesel engines .....	...	...	1	80
Electric motors run by purchased power .....	5,868	15,271	134	666
TOTAL .....	5,868	15,271	140	1,064
Electric motors run by above primary units .....	...	...	1	80
Stationary power boilers .....	...	...	...	...
Motor-generator sets .....	39	1,506k.v.a.	...	...

Table 7 - PRODUCTS MADE IN THE AIRCRAFT INDUSTRY, 1946 and 1947

	<u>1 9 4 6</u>		<u>1 9 4 7</u>	
	Quantity	Selling value at works \$	Quantity	Selling value at works \$
Total aircraft completed in year(x)	308	3,700,453	199	20,305,382
Aircraft being built but not completed at year end (value of work done) .....	...	5,880,625	...	2,073,306
Repairs to aircraft (value of work done) .....	...	13,582,347	...	4,835,461
Aircraft parts manufactured .....	...	15,314,257	...	12,202,723
All other products manufactured ...	...	4,658,021	...	7,602,142
Total Gross Production .....	...	43,135,703	...	47,019,014
Less value of work done in previous year on aircraft completed in current year .....	...	6,924,797	...	2,715,438
TOTAL NET PRODUCTION ....	...	36,210,906	...	44,303,576

(x) Includes 3 commercial transports, 2 cargo planes and 302 light private passenger planes and trainers in 1946, and 36 commercial transports, 1 cargo plane and 162 light private passenger planes and trainers in 1947.

Table 8 - PRODUCTION OF AIRCRAFT IN CANADA, 1938-1947

Year	Number	Selling value at works \$	Year	Number	Selling value at works \$
1938 .....	282	4,001,622	1943 .....	3,792	119,432,707
1939 .....	252	4,177,555	1944 .....	4,095	269,879,520
1940 .....	875	13,859,625	1945 .....	1,822	211,861,554
1941 .....	1,466	35,348,343	1946 .....	308	3,700,453
1942 .....	3,409	70,274,104	1947 .....	199	20,305,382

Table 9 - IMPORTS OF AIRCRAFT AND COMPLETE PARTS THEREOF, NOT INCLUDING ENGINES, 1945-1947

		1 9 4 5	1 9 4 6	1 9 4 7 Aircraft	1 9 4 7 Aircraft parts
From: United Kingdom ..	No. ....	...	4	6	...
	\$	134,481	465,955	126,889	467,584
United States ...	No. ....	23	328	400	...
	\$	15,866,041	8,967,430	2,066,075	9,619,367
Other countries .	\$	312	14,596	...	3,707
TOTAL .....	No. ....	23	332	406	...
	\$	16,000,834	9,447,981	2,192,964	10,090,658

Note: Dollar figures prior to 1947 include value of parts

Table 10 - IMPORTS OF AIRCRAFT ENGINES AND COMPLETE PARTS, 1945-1947

		1 9 4 5	1 9 4 6	1 9 4 7 Aircraft engines	1 9 4 7 Engine parts
From: United Kingdom ..	No. ....	12	59	165	...
	\$	308,019	882,688	3,434,880	1,122,772
United States ...	No. ....	83	719	509	...
	\$	394,061	602,707	744,392	543,851
Other countries .	\$	...	...	...	...
TOTAL .....	No. ....	95	778	674	...
	\$	702,080	1,485,395	4,179,272	1,666,623

Note: Dollar figures prior to 1947 include value of parts.



Aircraft

1010684813

- 6 -

Table 11 - EXPORTS AND RE-EXPORTS OF AIRCRAFT AND PARTS, 1945-1947

	1945	1946	1947	
<u>Exports (a)</u>				
Aircraft .....	No.	Not available separately	179	
	\$	prior to 1947	3,694,060	
Aircraft parts .....	\$		2,205,475	
TOTAL EXPORTS ....	\$	108,152,016	9,507,369	5,899,535
<u>Re-exports (b)</u>				
Aircraft .....	No.	Not available separately	99	
	\$	prior to 1947	287,272	
Aircraft parts .....	\$		3,599,274	
TOTAL RE-EXPORTS..	\$	16,783,192	4,468,563	3,886,546
(a) Made in Canada.				
(b) Foreign-made goods re-exported.				

DIRECTORY OF FIRMS IN THE AIRCRAFT INDUSTRY - 1947

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 (x).

Name of Firm	Location of Plant
<u>Quebec -</u>	
Canadian Car & Foundry Company Limited (x)	Montreal
Canadian Pratt & Whitney Aircraft Co. Ltd.	150 Lorne Ave., Longueuil
Canadian Wright Limited	6259 Notre Dame St. E., Montreal
Canadair Limited (x)	Montee St. Laurent, St. Laurent
Fairchild Aircraft Limited (x)	Longueuil
<u>Ontario -</u>	
Cub Aircraft Corporation Limited (x)	Hamilton
De Havilland Aircraft of Canada, Limited (x)	Sheppard Ave., Downsview
Fleet Manufacturing Limited (x)	Gilmore Rd., Fort Erie
Prencos Progress & Eng. Corp. Ltd.	72-74 Stafford St., Toronto
Roe, A.V., Canada Limited (x)	Malton
<u>Manitoba -</u>	
MacDonald Bros. Aircraft Limited	Stevenson Field, Winnipeg
Prairie Equipment & Radiators Limited	310 Burnell St., Winnipeg