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Annual Industry Report

Iron and Steel and Their Products Group

### THE AIRCRAFT INDUSTRY - 1946

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 1946 amounted to \$36,210,906 or 87 per cent less than in 1945. An average of 11,405 persons were given employment and \$24,459,085 were paid in salaries and wages. The amount paid for materials for use in manufacturing was \$6,708,468 and the amount paid for fuel and power was \$787,180.

In the 5 assembly plants which constitute the core of the industry, there were 8,719 workers in 1946, and production, including 308 complete aircraft, was valued at \$26,006,795.

Table 1 - PRINCIPAL STATISTICS OF THE AIRCRAFT INDUSTRY, 1936-1946

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
			\$	\$	\$	\$
1936 .....	7	416	521,969	20,588	571,117	1,347,894
1937 .....	8	606	691,934	23,762	879,654	1,730,724
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
Per cent change -						
1946 from 1945 ..		-70	-71	-56	-94	-87

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, 1944-1946

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>1944</u>						
Assembly plants .	10	59,640	123,101,029	1,821,503	123,661,502	362,265,060
Parts plants only	35	19,732	37,953,981	772,289	14,072,563	64,716,498
Total .....	45	79,572	161,055,010	2,593,792	137,734,065	426,981,558
<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

Table 3 - PRINCIPAL STATISTICS, BY PROVINCES, 1945 and 1946

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>1945</u>						
Quebec .....	16	17,354	33,322,958	788,952	22,070,104	77,090,671
Ontario ....	17	16,083	35,211,924	763,647	90,437,042	184,740,970
Manitoba ...	2)					
British Columbia ..	1)	4,375	10,695,621	260,408	2,586,121	16,821,239
Nova Scotia.	1)					
Saskatchewan	1)					
CANADA ..	38	37,812	84,230,503	1,813,007	115,093,267	278,652,880
<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



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Table 4 - WAGE-EARNERS, BY MONTHS, 1945 and 1946 (On the last work day of each month)

Month	1 9 4 5			1 9 4 6		
	Male	Female	Total	Male	Female	Total
January .....	37,297	12,401	49,698	5,485	258	5,743
February .....	34,957	11,421	46,378	6,086	281	6,367
March .....	32,570	10,822	43,392	7,055	312	7,367
April .....	31,374	10,014	41,388	7,730	332	8,062
May .....	30,831	9,855	40,686	8,308	345	8,653
June .....	30,302	9,345	39,647	8,641	353	8,994
July .....	27,696	8,283	35,979	8,761	353	9,114
August .....	18,702	4,531	23,233	8,765	411	9,176
September .....	10,481	1,007	11,488	8,486	420	8,906
October .....	8,733	743	9,476	8,289	392	8,681
November .....	7,686	616	8,302	8,048	370	8,418
December .....	7,275	562	7,837	8,058	350	8,408
AVERAGE .....	23,179	5,782	28,961	7,809	349	8,158

Table 5 - FUEL AND ELECTRICITY USED, 1945 and 1946

Kind	Unit of measure	1 9 4 5		1 9 4 6	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Bituminous coal--Canadian	short ton	20,093	180,509	2,235	19,879
Imported	short ton	41,031	361,411	20,488	192,187
Anthracite coal .....	short ton	570	7,031	448	4,513
Lignite coal .....	short ton	4,837	19,108	6,500	27,850
Coke .....	short ton	231	2,660	24	312
Gasoline .....	Imp.gal.	879,467	289,534	486,017	154,492
Kerosene .....	Imp.gal.	30,903	6,266	8,347	1,817
Fuel oil .....	Imp.gal.	1,599,506	114,488	666,453	54,331
Wood .....	cord	96	720	102	816
Gas - Manufactured .....	M cu.ft.	46,866	28,920	2,044	2,210
Natural .....	M cu.ft.	4,843	3,874	3,482	2,785
Other fuel .....	...	...	159	...	17,122
Electricity .....	K.W.H.	99,395,697	798,327	25,319,430	308,866
TOTAL .....	...	...	1,813,007	...	787,180

Table 6 - POWER EQUIPMENT, 1945 and 1946

	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total rated horse power	Number of units	Total rated horse power
	1 9 4 5			
Steam engines and turbines .....	1	15	...	...
Gasoline, gas and oil engines ..	9	606	8	533
Diesel engines .....	1	90	1	300
Electric motors run by purchased power .....	15,284	36,366	298	1,732
TOTAL .....	15,295	37,077	307	2,565
Electric motors run by above primary units .....	...	...	1	300
Stationary power boilers .....	20	4,880	5	454
Motor-generator sets .....	98	3,327	8	353

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Table 6 - POWER EQUIPMENT, 1945 and 1946 (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 6</u>				
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 7 - PRODUCTS MADE IN THE AIRCRAFT INDUSTRY, 1945 and 1946

	<u>1 9 4 5</u>		<u>1 9 4 6</u>	
	Quantity	Selling value at works \$	Quantity	Selling value at works \$
Total aircraft completed in year (f)	1,822	211,861,554	308	3,700,453
Aircraft being built but not completed at year end (value of work done) .....	...	39,888,217(x)	...	5,880,625
Repairs to aircraft (value of work done) .....	...	9,605,516	...	13,582,347
Aircraft parts manufactured ....	...	94,755,722	...	15,314,257
All other products manufactured.	...	8,601,835	...	4,658,021
Total Gross Production ....	...	364,712,844	...	43,135,703
Less value of work done in previous year on aircraft com- pleted in current year .....	...	86,059,964	...	6,924,797(x)
TOTAL NET PRODUCTION ...	...	278,652,880	...	36,210,906

(x) The large difference between these two figures is due to cancellation of contracts for military aircraft.

(f) Includes 1,812 military planes and 10 civilian planes in 1945. All of the aircraft completed in 1946 were for civilian use including 3 commercial transports, 2 cargo planes and 302 light private passenger planes and trainers.



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Table 8 - PRODUCTION OF AIRCRAFT IN CANADA, 1936-1946

Year	Number	Selling value at works \$	Year	Number	Selling value at works \$
1936 .....	109	1,210,910	1942 .....	3,409	70,274,104
1937 .....	110	1,461,626	1943 .....	3,792	119,432,707
1938 .....	282	4,001,622	1944 .....	4,095	269,879,520
1939 .....	252	4,177,555	1945 .....	1,822	211,861,554
1940 .....	875	13,859,625	1946 .....	308	3,700,453
1941 .....	1,466	35,348,343			

Table 9 - IMPORTS OF AIRCRAFT AND COMPLETE PARTS THEREOF, NOT INCLUDING ENGINES,  
1944-1946

		1 9 4 4	1 9 4 5	1 9 4 6
From: United Kingdom ....	No.	...	...	4
	\$	53,007	134,481	465,955
United States .....	No.	40	23	328
	\$	65,075,653	15,866,041	8,967,430
Other countries ...	\$	...	312	14,596
TOTAL .....	No.	40	23	332
	\$	65,128,660	16,000,834	9,447,981

Note: Dollar figures include value of parts.

Table 10 - IMPORTS OF AIRCRAFT ENGINES AND COMPLETE PARTS, 1944-1946

		1 9 4 4	1 9 4 5	1 9 4 6
From: United Kingdom ....	No.	2	12	59
	\$	7,934	308,019	882,688
United States .....	No.	1,146	83	719
	\$	18,221,657	394,061	602,707
Other countries ...	\$	...	...	...
TOTAL .....	No.	1,148	95	778
	\$	18,229,591	702,080	1,485,395

Table 11 - EXPORTS AND RE-EXPORTS OF AIRCRAFT AND PARTS, 1944-1946

	1 9 4 4	1 9 4 5	1 9 4 6
	\$	\$	\$
Exports (made in Canada) .....	107,113,517	108,152,016	9,507,369
Re-exports (foreign-made goods re-exported) .....	16,455,927	16,783,192	4,468,563

DIRECTORY OF FIRMS IN THE AIRCRAFT INDUSTRY, 1946

Note: This is not intended to be a complete directory of firms which make aircraft 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).

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Name of FirmLocation of Plant

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Quebec -

Bloctube Controls of Canada Limited	5460 Bordeaux St., Montreal
Canadian Car & Foundry Company Limited	Montreal
Canadian Pratt & Whitney Aircraft Co. Ltd.	150 Lorne Ave., Longueuil
Canadian Wright Limited	6259 Notre Dame St. E., Montreal
Canadair Limited (x)	P.O. Box 6087, Cartierville
Fairchild Aircraft Limited (x)	Longueuil
West Aeronautical Devices Inc.	531 Cote de Liesse Rd., Dorval

Ontario -

Cub Aircraft Corporation Limited (x)	Hamilton
De Havilland Aircraft of Canada, Limited (x)	Sheppard Ave., Downsview
Manufacturing and Aircraft Limited (x)	Gilmore Rd., Fort Erie
Prencos Progress & Eng. Corp. Ltd.	72-74 Stafford St., Toronto
Roe, A. V., Canada Limited	Malton
Stanley Precision Instruments Co. Ltd.	587 Fleet St. W., Toronto

Manitoba -

MacDonald Bros. Aircraft Limited	50 Robinson St., Winnipeg
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Saskatchewan -

M & C Aviation Co. Ltd.	P.O. Box 789, Prince Albert
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