

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

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

Annual Industry ReportIron and Steel and Their Products GroupTHE AIRCRAFT INDUSTRY, 1945

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. All of the makers of aircraft parts are not included as a large number of concerns which normally were in other lines of business were participating in the war-time aircraft program.

Production from this industry in 1945 amounted to \$278,652,880 or 35 per cent less than in 1944. An average of 37,812 persons were given employment and \$84,230,503 were paid in salaries and wages. The amount paid for materials for use in manufacturing was \$115,093,267 and the amount paid for fuel and power was \$1,813,007; the former figure does not include materials which were supplied free by the Dominion Government.

In the 7 assembly plants which constitute the core of the industry, there were 27,525 workers in 1945, and production, including 1,822 complete aircraft, was valued at \$241,774,736.

Table 1 - PRINCIPAL STATISTICS OF THE AIRCRAFT INDUSTRY, 1935-1945

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
			\$	\$	\$	\$
1935 ....	7	294	327,792	11,666	362,854	880,699
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
Per cent change - 1945 from 1944 ....	..	-52.5	-47.7	-30.1	-16.4	-34.7

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, 1943-1945

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>1943</u>						
Assembly plants..	9	53,896	97,431,633	1,171,636	46,187,353	190,865,216
Parts plants only	36	15,633	29,395,075	577,785	14,260,657	55,163,370
Total .....	45	69,529	126,826,708	1,749,421	60,448,010	246,028,586
<u>1944</u>						
Assembly plants..	10	59,840	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

Table 3 - PRINCIPAL STATISTICS, BY PROVINCES, 1944 and 1945

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>1944</u>						
Quebec .....	14	32,631	64,760,462	964,331	54,079,387	160,736,338
Ontario ....	23	33,777	70,054,512	1,073,710	74,602,768	217,573,199
Manitoba ...	4)					
British Columbia..	2)	13,164	26,240,036	555,751	9,051,910	48,672,021
Nova Scotia.	1)					
Saskatchewan	1)					
CANADA ..	45	79,572	161,055,010	2,593,792	137,734,065	426,981,558
<u>1945</u>						
Quebec .....	16	17,354	38,322,958	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



Table 4 - WAGE-EARNERS, BY MONTHS, 1944 and 1945 (On the last work day of each month)

Month	1 9 4 4			1 9 4 5		
	Male	Female	Total	Male	Female	Total
January .....	51,426	19,222	70,648	37,297	12,401	49,698
February .....	52,074	19,442	71,516	34,957	11,421	46,378
March .....	51,987	19,247	71,234	32,570	10,822	43,392
April .....	50,452	18,359	68,811	31,374	10,014	41,388
May .....	49,942	17,976	67,918	30,831	9,855	40,686
June .....	49,942	17,450	67,392	30,302	9,345	39,647
July .....	50,035	17,579	67,614	27,696	8,283	35,979
August .....	49,295	17,501	66,796	18,702	4,531	23,233
September .....	47,225	16,568	63,793	10,481	1,007	11,488
October .....	45,260	15,839	61,099	8,733	743	9,476
November .....	42,408	14,431	56,839	7,686	616	8,302
December .....	40,629	12,838	53,467	7,275	562	7,837
AVERAGE .....	48,391	17,208	65,599	23,179	5,782	28,961

Table 5 - HOURS WORKED PER WEEK BY WAGE-EARNERS, 1945 (In one week of normal employment; overtime included)

Hours Worked per Week	Number of Wage-earners	
	Male	Female
30 hours or less .....	1,280	442
31-43 hours .....	8,223	3,295
44 hours .....	2,570	785
45-47 hours .....	2,825	961
48 hours .....	12,581	4,099
49-50 hours .....	4,953	2,210
51-54 hours .....	1,612	375
55 hours .....	226	58
56-64 hours .....	2,137	168
65 hours and over .....	1,498	95
TOTAL .....	37,905	12,488
Total wages paid in selected week .....	\$ 1,467,163	\$ 394,439

Table 6 - FUEL AND ELECTRICITY USED, 1944 and 1945

Kind	Unit of measure	1 9 4 4		1 9 4 5	
		Quantity	Cost at works	Quantity	Cost at works
Bituminous coal--Canadian	short ton	29,511	\$ 243,887	20,093	\$ 180,509
Imported	short ton	52,982	460,011	41,031	361,411
Anthracite coal .....	short ton	3,469	38,238	570	7,031
Lignite coal .....	short ton	9,715	38,476	4,837	19,108
Coke .....	short ton	381	4,581	231	2,660
Gasoline .....	Imp.gal.	1,772,385	581,801	879,467	289,534
Kerosene .....	Imp.gal.	58,234	12,564	30,903	6,266
Fuel oil .....	Imp.gal.	1,240,066	81,647	1,599,506	114,488
Wood .....	Cord	206	1,422	96	720
Gas--Manufactured .....	M cu. ft.	60,569	35,633	46,866	28,920
Natural .....	M cu. ft.	6,081	4,865	4,843	3,874
Other fuel .....	...	...	16,028	...	159
Electricity .....	K.W.H.	132,420,165	1,074,639	99,395,697	798,327
TOTAL .....	...	...	2,593,792	...	1,813,007

Aircraft

- 4 -

Table 7 - POWER EQUIPMENT, 1944 and 1945

	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total rated horse power	Number of units	Total rated horse power
<u>1944</u>				
Steam engines and turbines .....	3	75	...	...
Gasoline, gas and oil engines ..	14	1,033	8	533
Diesel engines .....	...	...	1	300
Electric motors run by purchased power .....	17,021	38,329	237	1,439
TOTAL .....	17,038	39,437	246	2,272
Electric motors run by above primary units .....	...	...	1	300
Stationary power boilers .....	38	6,550	6	539
Motor-generator sets .....	95	3,045	3	168
<u>1945</u>				
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

Table 8 - PRODUCTS MADE IN THE AIRCRAFT INDUSTRY, 1944 and 1945

	1944		1945	
	Quantity	Selling value at works \$	Quantity	Selling value at works \$
Total aircraft completed in year ..	4,095	269,879,520	1,822	211,861,554
Aircraft being built but not com- pleted at year end (value of work done) .....	...	77,845,155	...	39,888,217
Repairs to aircraft (value of work done) .....	...	16,059,860	...	9,605,516
Aircraft parts manufactured .....	...	93,494,956	...	94,755,722
All other products manufactured ...	...	18,828,256	...	8,601,835
Total Gross Production .....	...	476,107,747	...	364,712,844
Less value of work done in previous year on aircraft completed in current year .....	...	49,126,189	...	86,059,964
TOTAL NET PRODUCTION .....	...	426,981,558	...	278,652,880

Table 9 - PRODUCTION OF AIRCRAFT IN CANADA, 1935-1945

Year	Number	Selling Value at Works \$
1935 .....	58	479,614
1936 .....	109	1,210,910
1937 .....	110	1,461,626
1938 .....	282	4,001,622
1939 .....	252	4,177,555
1940 .....	875	13,859,625
1941 .....	1,466	35,348,343
1942 .....	3,409	70,274,104
1943 .....	3,792	119,432,707
1944 .....	4,095	269,879,520
1945 .....	1,822	211,861,554

Table 10 - IMPORTS OF AIRCRAFT AND COMPLETE PARTS THEREOF, NOT INCLUDING ENGINES, 1943-1945

		1 9 4 3	1 9 4 4	1 9 4 5
From: United Kingdom ....	No.	...	...	...
	\$	403,328	53,007	134,481
United States .....	No.	148	40	23
	\$	66,102,084	65,075,653	15,866,041
Other countries ...	\$	3,544	...	312
TOTAL .....	No.	148	40	23
	\$	66,507,956	65,128,660	16,000,834

Note: Dollar figures include value of parts.

Table 11 - IMPORTS OF AIRCRAFT ENGINES AND COMPLETE PARTS, 1943-1945

		1 9 4 3	1 9 4 4	1 9 4 5
From: United Kingdom ....	No.	28	2	12
	\$	429,579	7,934	308,019
United States .....	No.	718	1,146	83
	\$	15,840,709	18,221,657	394,061
Other countries ...	\$	150,469	...	...
TOTAL .....	No.	769	1,148	95
	\$	16,420,757	18,229,591	702,080

Table 12 - EXPORTS AND RE-EXPORTS OF AIRCRAFT AND PARTS, 1943-1945

	1 9 4 3	1 9 4 4	1 9 4 5
	\$	\$	\$
Exports (made in Canada) .....	44,786,592	107,113,517	108,152,016
Re-exports (foreign-made goods re-exported) .....	5,421,138	16,455,927	16,783,192





1010684807

- 6 -

Aircraft

DIRECTORY OF FIRMS IN THE AIRCRAFT INDUSTRY, 1945

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).

<u>Name of Firm</u>	<u>Location of Plant</u>
<u>Nova Scotia -</u>	
Canadian Car & Foundry Company Limited	Amherst
<u>Quebec -</u>	
Bloctube Controls of Canada Limited	5460 Bordeaux St., Montreal
Cambridge Machine Tool & Aircraft Supplies Ltd.	425 River St., Verdun
Canadian Airplane Accessories	St. Janvier
Canadian Car & Foundry Company Limited	Montreal (2 plants)
Canadian Power Boat Co.	4000 St. Patrick St., Montreal
Canadian Pratt & Whitney Aircraft Co. Ltd.	150 Lorne Ave., Longueuil
Canadian Propellers Limited	5400 Hochelaga St., Montreal
Canadian Wright Limited	6259 Notre Dame St. E., Montreal
Canadair Limited (x)	P.O. Box 6087, Cartierville
Fairchild Aircraft Limited (x)	Longueuil
Heroux Machine Parts Ltd.	73 Chambly Rd., Longueuil
Noorduyn Aviation Limited (x)	1411 Crescent St., Montreal
Victoria Precision Works Co. Ltd.	277 Craig St. W., Montreal
West Aeronautical Devices Inc.	531 Cote de Liesse Rd., Dorval
National Motors Limited	3401 Park Ave., Montreal
<u>Ontario -</u>	
Canadian Aircraft Instruments & Accessories Ltd.	99 Vanderhoof Ave., Leaside
Canadian Car & Foundry Company Limited (x)	Fort William
Chaplin Steel Industries Ltd.	124 Glen Forest Rd., Toronto
Cockshutt Moulded Aircraft Ltd. (x)	Mohawk St., Brantford
Cub Aircraft Corporation Limited	Hamilton
De Havilland Aircraft of Canada, Limited (x)	Sheppard Ave., Downsview
Fleet Aircraft Limited	Gilmore Rd., Fort Erie
International Aeronautical Corporation Limited	10 Sword St., Toronto
Leavens Bros. Air Services Ltd.	Barker Airport, Toronto
Massey-Harris Co. Limited	Main St. N., Weston
Metalair Products	57 Sylvan Ave., Toronto
Precision Machine Company	70 York St., London
Prencos Progress & Eng. Corp. Ltd.	72-74 Stafford St., Toronto
Stanley Precision Instruments Co. Ltd.	587 Fleet St. W., Toronto
Victory Aircraft Limited (x)	Malton
Universal Moulded Products Co. Ltd.	Belleville
Noury Aircraft Limited	Stoney Creek
<u>Manitoba -</u>	
MacDonald Bros. Aircraft Limited (2 plants)	50 Robinson St., Winnipeg
<u>Saskatchewan -</u>	
M & C Aviation Co. Ltd.	P.O. Box 789, Prince Albert
<u>British Columbia -</u>	
Boeing Aircraft of Canada Limited (x)	1927 Georgia St. W., Vancouver