

AIRCRAFT TRADE INTRODUCTORY

This trade comprises firms that were engaged wholly or mainly in the construction of aircraft and parts thereof, including engines.

Table I A.—General summary

Particulars	1935	1934	1933	1930	1924
	£'000	£'000	£'000	£'000	£'000
Value of products (Gross output)...	13,919	8,963	7,439	8,688	4,554
Cost of materials, fuel and electricity used	5,197	3,073	2,594	2,866	1,452
Amount paid for work given out ..	270	79	34	245	23
Net output	8,452	5,811	4,811	5,577	3,079
Average number of persons employed	No. 35,032	No. 23,775	No. 20,401	No. 21,322	No. 11,735
Net output per person employed	£ 241	£ 244	£ 236	£ 262	£ 262
Number of returns	49	*	*	38	20
Number of establishments... ..	52	*	*	47	*

* Not available.

Table I B.—Firms employing not more than ten persons on the average

Particulars	1935	1930
Number of returns received... ..	No. 15	No. 10
Average number of persons employed :—		
Males	69	56
Females	7	15
TOTAL	76	71

At each Census returns were received from all firms to whom schedules were sent. At the 1924 Census all firms that made returns employed more than ten persons.

Table II.—Size of establishments in 1935

Size of establishment (average number employed)	Number of establishments	Gross output	Net output	Number of persons employed	Net output per person employed
	No.	£'000	£'000	No.	£
11-24	5	38	19	101	192
25-49	5	70	36	183	195
50-99	8	322	181	523	345
100-199	8	343	172	1,122	154
200-399	5	389	140	1,643	85
400-999	6	1,442	944	4,652	203
1,000-1,499	7	2,908	1,976	8,688	227
1,500 and over... ..	8	8,407	4,984	18,120	275
TOTAL	52	13,919	8,452	35,032	241

Table III.—Particulars of output, etc., in each of the principal areas of the United Kingdom

Area*	Number of establishments†	Gross output	Net output	Number of persons employed	Net output per person employed
	No.	£'000	£'000	No.	£
I	{ 1935 23 1930 18	5,038 3,965	2,916 2,651	13,030 9,878	224 268
8	1935 12	1,081	657	4,295	153
10	1935 4	723	471	1,805	261
Other areas	1935 13	7,077	4,408	15,902	277
Total	{ 1935 29 1930 20	8,881 4,723	5,536 2,926	22,002 11,444	252 256
TOTAL	{ 1935 52 1930 38	13,919 8,688	8,452 5,577	35,032 21,322	241 262

* For particulars see page xviii.

† Number of returns for 1930.

Table IV.—No sub-divisions of this trade have been distinguished.

PRODUCTION

Table V.—Output of principal products

Kind of output	1935			1934	
	Quantity	Value	Entries	Quantity	Value
	No.	£'000	No.	No.	£'000
Aeroplanes, complete :—					
With engines fitted	644	1,275	15	396	1,074
Without engines	1,163	3,327	18	712	2,012
Total	1,807	4,602	...	1,108	3,086
Engines for aircraft :—					
Complete	3,030	3,918	8	1,685	2,357
Parts ... ..	...	897	21	...	748
Other parts of aircraft ... ..	...	2,224	66	...	1,676
Other principal products, including parachutes ... ..	...	270	16	...	115
Repair work, etc. (including development and experimental work) ... ..	...	1,075*	45	...	750*
TOTAL—PRINCIPAL PRODUCTS	...	12,986	...	...	8,732
Work in progress :—					
Addition on account of work in progress at the end of the year ... ..	...	4,047	44	...	2,564
Deduction on account of work in progress at the beginning of the year ... ..	...	2,748	42	...	1,999
TOTAL ... ..	...	14,285	...	...	9,297

* Amount received.

The figures shown in the preceding table include the following output recorded by firms whose returns were made on schedules for other trades and are not, therefore, included in Table I A.

Kind of output	1935			1934	
	Quantity	Value	Entries	Quantity	Value
	No.	£'000	No.	No.	£'000
Engines for aircraft :—					
Complete	22	12	1	11	6
Parts ... ..	...	89	13	...	58
Other parts of aircraft ... ..	...	371	35	...	340
Other principal products, including parachutes ... ..	...	40	8	...	10
Repair work... ..	...	1*	1	—	—
TOTAL ... ..	...	513	...	...	414

* Amount received.

Table VI.—Average values of goods produced, exported and imported

Kind of goods	Production (at factory)		Exports (f.o.b.)	Imports (c.i.f.)		
	Average value			Average value		
	1935	1934	1935	1934	1935	1934
	£ each	£ each	£ each	£ each	£ each	£ each
Aeroplanes, complete :—						
With engines fitted ...	1,980	2,712	73.0	2,683	2,505	...
Without engines ...	2,860	2,825	101.2	*	*	...
Engines for aircraft, complete	1,293	1,399	92.4	1,067	1,237	...

* Not recorded separately.

Table VII.—Volume of Production, 1924-1935

Kind of output	Total production			Production index (1935 = 100)			
	1935 as returned	1934		1924	1930	1933	1934
		As returned	At 1935 average values				
	£'000	£'000	£'000	Per cent.	Per cent.	Per cent.	Per cent.
Aeroplanes, complete ...	4,602	3,086	2,822	27	79	60	61
Engines for aircraft :—							
Complete	3,918	2,357	2,178	30	66	48	56
Parts	897	748	691	18	68	64	77
Other parts of aircraft ...	2,224	1,076	1,541	63	61	61	69
Other principal products, including parachutes... ..	270	115	106	1	14	14	39
Repair work	1,075	750	720	33	89	63	67
Addition on account of work in progress	1,299	565	519	...	...	...	...
TOTAL	14,285	9,297	8,577	23	65	51	60

Table VIII.—Production in relation to Exports and Imports

Kind of goods	Production	Exports	Proportion of production exported	Retained imports	Avail-able for use in the United Kingdom	Share of home market held by British goods
					No.	Per cent.
Aeroplanes, complete, with engines fitted ...	1,807*	453	...	20	...	...
Engines for aircraft, complete ...	1,108*	298	...	3	...	...
Engines for aircraft, complete ...	3,030	652	21.5	11	2,389	99.5
Engines for aircraft, complete ...	1,685	479	28.4	8	1,214	99.3

* Including aeroplanes without engines.

Table IX.—Other output of the Aircraft Trade

The value of the gross output of the firms whose returns were made on schedules for the Aircraft Trade was £13,919,000 in 1935 and £8,963,000 in 1934, of which £13,772,000 in 1935 and £8,883,000 in 1934 consisted of products included in Table V. Particulars of the remaining items are shown below.

Kind of output	1935	1934
	£'000	£'000
Manufactures of metal	137	77
Other goods	10	3
TOTAL	147	80

MATERIALS AND FUEL

Table X A.—Materials, fuel and electricity purchased and used

Kind of materials, etc.	1935		1934
	Quantity	Cost	Cost
Materials used :—	No.	£'000	£'000
Aeroplane engines	398	256	3,073
Steel bars and rods	Th. tons 2.7	130	
Steel sheets	0.9	83	
Steel tubes	0.5	113	
Steel forgings	0.6	91	
Steel wire and cable	0.2	18	
Aluminium and aluminium alloys, in all forms	2.1	571	
Copper, brass and other alloys of copper, in all forms	0.4	38	
Linen piece-goods	Th. sq. yds. 787.1	45	
Unclassified materials ... ..	...	9
Fuel and electricity used for all purposes :—	Th. tons	926	
Coal	24.1	32	
Coke	8.6	12	
Heavy fuel oil	Th. galls. 1,524	26	
Purchased electricity†	Th. B.T.U. (Kw.-hrs.) 37,369	116	
All other purchased materials and fuel... ..	...	2,591
TOTAL	5,197	3,073

† Including electricity generated in other works under the same ownership.

Table X B.—Consumption of coal, coke and electricity in 1935 and 1930

Kind of fuel	1935	1930
	Coal	Th. tons 24.1	Th. tons 11.6
Coke	8.6	6.7
Electricity :—	Th. B.T.U. (Kw.-hrs.)	Th. B.T.U. (Kw.-hrs.)
Generated in same works... ..	1,227	1,332
Generated in other works under same ownership	1,157	1,332
Purchased	36,212	13,239
Total electricity consumed	38,596	14,571

EMPLOYMENT

Table XI A.—Average numbers employed in 1935 and 1934

Persons employed	Males		Females		Total	
	Under 18	All ages	Under 18	All ages	Under 18	All ages
Operatives (average for the year)	1935 3,126	27,469	270	1,674	3,396	29,143
Administrative, technical and clerical staff*	1934 1,869	18,437	164	1,061	2,033	19,498
	1935 417	4,674	261	1,215	678	5,889
	1934 248	3,364	147	913	395	4,277
TOTAL	1935 3,543	32,143	531	2,889	4,074	35,032
	1934 2,117	21,801	311	1,974	2,428	23,775

* As at 12th October, 1935, and 13th October, 1934.

Table XI B.—Operatives employed in one week in each month of 1934 and 1935 by firms furnishing returns in respect of the twelve months ended December

Mid week of*	Operatives employed		Monthly index†		
	1934	1935	1933	1934	1935
January	8,160	8,202	53.5	59.2	82.9
February	8,431	8,287	56.6	61.1	83.8
March	8,677	8,549	58.4	62.9	86.4
April	8,787	8,663	56.4	63.7	87.6
May	8,995	8,927	57.3	65.2	90.2
June	9,174	9,272	58.8	66.5	93.7
July	9,271	9,759	59.3	67.2	98.7
August	9,194	10,081	54.5	66.6	101.9
September	9,610	10,656	56.8	69.7	107.7
October	9,993	11,219	57.3	72.4	113.4
November	10,200	12,242	58.2	73.9	123.8
December	10,257	12,843	58.8	74.4	129.8
Average for the twelve months... ..	9,229	9,892	57.2	66.9	100.0
Proportion of total operatives represented	47.33	33.94	...	...	...

* For the ending date of each week see page xiv.

† Based on the estimated average for the year 1935.

Table XI C.—Average numbers employed, 1924-1935

Year	Operatives	Administrative, technical and clerical staff	Total
1924	10,002	1,733	11,735
1930	17,595	3,727	21,322
1933	16,660	3,741	20,401
1934	19,498	4,277	23,775
1935	29,143	5,889	35,032

WAGES

Table XII.—Wages paid by firms furnishing returns of wages in 1935 and 1930

The aggregate amount of wages paid by firms furnishing returns of wages was £4,169,000 in 1935 representing 51·5 per cent. of the net output of these firms, the corresponding figures for 1930 being £1,562,000 and 47·2 per cent. The figures for these firms given below indicate the size of the sample and the extent to which it is representative.

Firms furnishing returns of wages	1935		1930	
	Aggregate	Proportion of trade	Aggregate	Proportion of trade
Gross output... ..	£'000	Per cent.	£'000	Per cent.
Net output	13,183	94·7	5,246	60·4
	8,099	95·8	3,312	59·4
Operative staff employed :—	No.		No.	
During mid-week of October :—				
Males	26,532	94·1	}	*
Females... ..	1,594	92·8		
Total	28,126	94·1	10,697	59·9
Average for the year	27,311	93·7	10,319	58·6
Administrative, technical and clerical staff	5,362	91·1	*	*
Number of establishments	32	61·5	...	...

* Not recorded separately.

COUNTRY TABLES (1935)

Note.—The figures given in the following tables relate only to firms whose returns were made on schedules for the Aircraft Trade. Owing to the possible disclosure of information relating to individual firms, separate particulars for England and Wales and for Scotland cannot be given.

No production was recorded for Northern Ireland.

Table I.—General summary (see page 404)**Table II.—Output**

Kind of output	Great Britain	
	Quantity	Value
	No.	£'000
Aeroplanes complete :—		
With engines fitted	644	1,275
Without engines	1,163	3,327
Total	1,807	4,602
Engines for aircraft :—		
Complete... ..	3,008	3,906
Parts ... ..	...	808
Other parts of aircraft ... ..	...	1,853
Other principal products, including parachutes ... ..	...	230
Manufactures of metal ... ..	...	137
Other goods made... ..	...	10
Repair work, etc. (including development and experimental work) ... ..	...	1,074*
Work in progress :—		
Addition on account of work in progress at the end of the year ... ..	...	4,047
Deduction on account of work in progress at the beginning of the year ... ..	...	2,748
TOTAL ... ..	...	13,919

* Amount received.

Table III A.—Materials, fuel and electricity purchased and used (see page 408)**Table III B.—Consumption of electricity (see page 408)****Table IV A.—Numbers employed in week ended 12th October, 1935**

Persons employed	Males		Females		Total	
	Under 18	All ages	Under 18	All ages	Under 18	All ages
Great Britain :—						
Operatives	3,207	28,183	277	1,717	3,484	29,900
Administrative, technical and clerical staff... ..	417	4,674	261	1,215	678	5,889
TOTAL	3,624	32,857	538	2,932	4,162	35,789

Table IV B.—Operatives employed in one week in each month of 1935

Week ended	Males and females	Week ended	Males and females
January 19	27,361	July 13	29,624
February 16	28,017	August 17... ..	29,351
March 16	28,135	September 14	29,965
April 13	26,764	October 12	29,900
May 18	27,767	November 16	31,377
June 15	28,970	December 14	32,484
Average for the twelve months			29,143

Table V.—Firms employing not more than ten persons on the average
(see page 404)
