

## THE CATTLE, DOG AND POULTRY FOODS TRADE

*Note.*—For information regarding the scope of the Census, instructions given to firms for making returns, and definitions of the terms used in this report, reference should be made to the Introductory Notes on pages v to xviii.

### Introductory

This trade comprises firms that were engaged wholly or mainly in the manufacture of cattle, dog and poultry foods, except grain milling products (page 34), oil-cake made by seed crushers (page 351) and certain feeding-stuffs occurring as by-products of other trades. The following table shows the main results of the Censuses of 1930 and 1924 in respect of firms in Great Britain that employed an average of more than ten persons :—

Particulars	Unit	1930	1924
Value of goods made (Gross output) ... ..	£'000	6,076	6,401
Cost of materials used ... ..	"	4,102	4,429
Net output ... ..	"	1,974	1,972
Average number of persons employed ... ..	No.	5,699	5,074
Net output per person employed ... ..	£	346	389
Power available :—			
Prime movers ... ..	H.P.	5,910	5,924
Electric motors driven by purchased electricity	"	12,800	7,818
Number of returns ... ..	No.	75	73
Number of establishments ... ..	"	84	*

\* Not available.

**Deficiencies in 1930 aggregates.**—The aggregate number of persons employed in 1930 by firms that stated that they employed not more than ten persons on the average was 459, the corresponding figure for 1924 being 330. The value of the gross output of the small firms in 1924 was £356,000, and particulars of the items included in this figure and in the output of £112,000 for Northern Ireland, particulars of which cannot be stated separately, are given below :—

	£'000
Oil-seed cake, ground or mixed ... ..	132
	(10,100 tons)
Dog foods, including biscuits ... ..	26
Poultry foods ... ..	80
Other feeding stuffs for animals :—	
Sweetened (i.e., containing molasses) ... ..	16
	(1,600 tons)
Not sweetened ... ..	110
	(9,100 tons)
Medicines, spices and condiments for animals ... ..	80
Other goods ... ..	24
	—
TOTAL ... ..	468
	—



In addition, 9 firms to which schedules were sent at the 1930 Census and 14 at that of 1924 furnished no information; these firms either had small businesses or had ceased productive operations before the end of the censal year.

**Size of firms.**—In the following table the main particulars recorded at the Census of 1930 are grouped according to the average numbers of persons shown in the returns:—

Size of firm (average numbers employed)	Number of returns	Gross output	Net output	Average number of persons employed	Net output per person employed
	No.	£'000	£'000	No.	£
11-24 ...	21	316	94	365	257
25-49 ...	23	825	319	812	393
50-99 ...	16	1,222	437	1,128	387
100-199 ...	9	1,479	459	1,301	353
200-999 ...	6	2,234	665	2,093	318
<b>TOTAL ...</b>	<b>75</b>	<b>6,076</b>	<b>1,974</b>	<b>5,699</b>	<b>346</b>

**Regional distribution.**—In the following table the results recorded at the Censuses of 1930 and 1924 are grouped according to the principal areas\* of Great Britain in which firms in this trade are situated:—

Area	Number of returns	Gross output	Net output	Average number of persons employed	Net output per person employed	
	No.	£'000	£'000	No.	£	
1 ...	1930	17	2,175	874	2,431	359
	1924	18	1,771	741	2,006	369
2 ...	1930	18	2,177	561	1,604	350
	1924	20	3,201	856	1,934	443
6 ...	1930	23	1,114	317	927	342
	1924	18	690	159	465	342
9 and 10	1930	11	339	97	401	243
	1924	7	371	61	240	254
Other areas ...	1930	6	271	125	336	373
	1924	10	368	155	429	361
<b>TOTAL</b>	1930	75	6,076	1,974	5,699	346
	1924	73	6,401	1,972	5,074	389

**Northern Ireland.**—The following table summarises the particulars recorded at the Census of Production taken by the Government of Northern Ireland for 1930, together with those furnished at the 1924 Census. The 1930 figures relate to firms that employed an average of more than *five* persons, while those for 1924 relate to all firms.

\* For particulars see page xviii.

Particulars	Unit	1930	1924
Value of goods made (Gross output) ... ..	£'000	97	112
Cost of materials used ... ..	"	89	97
Net output ... ..	"	8	15
Average number of persons employed ... ..	No.	75	61
Net output per person employed ... ..	£	107	246
Power available:—			
Prime movers ... ..	H.P.	26	6
Electric motors driven by purchased electricity	"	145	80

Owing to the risk of disclosure of particulars relating to the business of individual firms, details of the output of particular classes of goods were not published for either year.

### Production

**Principal products.**—The following table shows the value and, where available, the quantity of cattle, dog and poultry foods made in 1930 and 1924:—

Kind of goods	1930						1924	
	Returned on schedules for						Total	
	The Cattle, Dog and Poultry Foods Trade			All trades				
Quan- tity	Value	Ent- ries	Quan- tity	Value	Ent- ries	Quan- tity	Value	
	Th. tons	£'000	No.	Th. tons	£'000	No.	Th. tons	£'000
Oil-seed cake and meal (ground or mixed) ...	87.6	796	12	108.3	974	77	111.1	113
Dog foods, including biscuits	46.1	1,274	22	50.1	1,382	25	*	1,056
Other feeding stuffs for animals:—								
Sweetened (i.e. containing molasses) ... ..	211.2	1,713	18	225.4	1,809	20	307.1	2,877
Not sweetened ... ..	68.2	552	26	70.5	575	30	151.7	1,736
Poultry foods, including grit and bird seeds prepared and mixed ... ..	...	845	32	...	1,066	52	...	818
Feeding stuffs for animals and poultry, not separ- ately distinguished:								
Fish meal† ... ..	25.5	403	9	34.4	552	16	...	...
Other ... ..	0.2	3	1	8.1	77	23	...	27
Medicines, spices and con- diments for animals ...	...	383	20	...	385	24	...	610
<b>TOTAL—PRINCIPAL PRO- DUCTS ... ..</b>	...	5,969	...	...	6,820	...	...	7,435

\* Weight not stated.

† So far as recorded separately.

**Prices.**—The only items for which average values in 1924 can be calculated for comparison with those in 1930 are oil-seed cake and meal (ground or mixed), and "other feeding stuffs for animals." These values are shown below, but it should be borne in mind that



the comparisons do not take account of any changes that may have occurred in the character of the goods included under the headings.

Kind of goods	Average value		1930 as a percentage of 1924
	1930	1924	
Oil-seed cake and meal (ground or mixed)	£ per ton 8.99	£ per ton 10.17	Per cent. 88.4
Other feeding stuffs for animals :—			
Sweetened ... ..	8.03	9.37	85.7
Not sweetened ... ..	8.16	11.44	71.3

**Volume of production in 1930 and 1924.**—The following table compares the volume of production of cattle, dog and poultry foods in 1930 and 1924 :—

Kind of goods	Total production			1930 as a percentage of 1924
	1930	1924		
	As returned	As returned	At 1930 average values	
	£'000	£'000	£'000	Per cent.
Oil-seed cake and meal (ground or mixed) ... ..	974	311	275	354
Other feeding stuffs for animals :—				
Sweetened... ..	1,809	2,877	2,465	73
Not sweetened ... ..	575	1,736	1,238	46
Dog foods, poultry foods, etc. ...	3,462	2,511	2,029*	171
<b>TOTAL ... ..</b>	<b>6,820</b>	<b>7,435</b>	<b>6,007</b>	<b>114</b>

\* Based on average values of preceding items.

**Exports and imports.**—Direct comparison of production with exports and net imports of cattle foods, etc., is precluded by the different classifications adopted for censal purposes and for the purpose of recording particulars of overseas trade. The following table shows the quantities of certain feeding stuffs exported in 1930 and 1924, together with the quantities imported and retained :—

Kind of goods	Exports		Retained imports	
	1930	1924	1930	1924
	Th. tons	Th. tons	Th. tons	Th. tons
Feeding stuffs for animals* :—				
Sweetened (i.e., containing molasses) ... ..	20.0	16.7	†	1.2
Not sweetened ... ..	81.0	117.5	45.8	39.4

\* Excluding cereal milling products, oil-seed cake and meal, hay, straw, locust beans and feeding seeds.

† Re-exports in excess of imports.

**Other products.**—In addition to the output shown in the table of principal products on page 151, firms that made their returns on schedules for the Cattle, Dog and Poultry Foods Trade recorded a sum of £107,000 in respect of other goods made in 1930, the corresponding figure for 1924 being £105,000. These goods are dealt with in the reports on those trades in which the principal output was recorded.

### Employment and Wages

**Employment.**—The following table shows the average numbers of persons employed in 1930 and 1924 :—

Persons employed	Males		Females		Total	
	Under 18	All ages	Under 18	All ages	Under 18	All ages
1930						
Operatives (average for the year)	284	3,200	332	1,081	616	4,281
Administrative, technical and clerical staff (as at 18th October) ... ..	75	1,016	67	402	142	1,418
<b>TOTAL ... ..</b>	<b>359</b>	<b>4,216</b>	<b>399</b>	<b>1,483</b>	<b>758</b>	<b>5,699</b>
1924						
Operatives (average for the year)	286	2,946	149	762	435	3,708
Administrative, technical and clerical staff (as at 18th October) ... ..	74	1,001	34	365	108	1,366
<b>TOTAL ... ..</b>	<b>360</b>	<b>3,947</b>	<b>183</b>	<b>1,127</b>	<b>543</b>	<b>5,074</b>

**Wages.**—The available information as to the amount of wages paid in 1930 and 1924 is given on pages 18 and 19.

### Power

The following table shows the capacity of prime movers, electric generators and electric motors ordinarily in use and in reserve or idle in 1930 and 1924 :—

Power equipment	1930			1924		
	Ordinarily in use	In reserve or idle	Total	Ordinarily in use	In reserve or idle	Total
<b>PRIME MOVERS</b>	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
Reciprocating steam engines ... ..	3,910	245	4,155	4,270	244	4,514
Internal combustion engines :—						
Gas ... ..	1,048	584	1,632	762	370	1,132
Petrol, kerosene, or other light oils ...	38	—	38	30	—	30
Heavy oils ... ..	65	—	65	5	—	5
Water engines ... ..	20	—	20	243	—	243
<b>TOTAL ... ..</b>	<b>5,081</b>	<b>829</b>	<b>5,910</b>	<b>5,310</b>	<b>614</b>	<b>5,924</b>



Power equipment	1930			1924		
	Ordinarily in use	In reserve or idle	Total	Ordinarily in use	In reserve or idle	Total
	Kw.	Kw.	Kw.	Kw.	Kw.	Kw.
<b>ELECTRIC GENERATORS</b>						
Driven by						
Reciprocating steam engines ... ..	533	266	799	292	100	392
Internal combustion engines :—						
Gas ... ..	55	18	73	91	—	91
Petrol, kerosene, or other light oils	4	—	4	—	—	—
Heavy oils ... ..	5	—	5	—	—	—
<b>TOTAL</b> ... ..	597	284	881	383	100	483
<b>ELECTRIC MOTORS</b>						
Driven by						
Electricity generated in same works ...	341	60	401	576	53	629
Electricity generated in other works under same ownership ... ..	77	—	77	—	—	—
Purchased electricity	11,125	1,675	12,800	6,978	840	7,818
<b>TOTAL</b> ... ..	11,543	1,735	13,278	7,554	893	8,447

### Consumption of fuel

The following table shows the quantities of coal, coke and electricity recorded as used in 1930 :—

Kind of fuel used	For power (driving engines)	For other purposes (so far as recorded)
	Tons	Tons
Coal ... ..	17,958	37,296*
Coke ... ..	1,375	6,798*
		B.T.U. (Kw.-hrs.) '000
Electricity used for all purposes :—		
Generated in same works ... ..		294
Generated in other works under same ownership ... ..		26
Purchased ... ..		9,875
<b>TOTAL—Electricity</b> ... ..		10,195

\* These figures were recorded by firms representing 93·5 per cent. of the net output of the whole trade.

## TABLES

### I. Summary of results

Particulars	Unit	England and Wales	Scotland	Great Britain
Value of goods made (Gross output) ... ..	£'000	5,737	339	6,076
Cost of materials used ... ..	"	3,860	242	4,102
Net output ... ..	"	1,877	97	1,974
Average number of persons employed ... ..	No.	5,298	401	5,699
Net output per person employed ... ..	£	354	243	346
Power available :—				
Prime movers ... ..	H.P.	5,280	630	5,910
Electric motors driven by purchased electricity ... ..	"	11,446	1,354	12,800

### II. Production

Kind of goods made	Unit	England and Wales	Scotland	Great Britain
Oil-seed cake and meal (ground or mixed) ... ..	<i>Th. tons</i>	80·5	7·1	87·6
	£'000	741	55	796
Dog foods, including biscuits ... ..	<i>Th. tons</i>	*	*	46·1
	£'000	*	*	1,274
Other feeding stuffs for animals :—				
Sweetened (i.e. containing molasses) ... ..	<i>Th. tons</i>	*	*	211·2
	£'000	*	*	1,713
Not sweetened ... ..	<i>Th. tons</i>	45·2	23·0	68·2
	£'000	460	92	552
Poultry foods (including grit and bird seeds prepared and mixed) ... ..	£'000	845	—	845
Feeding stuffs for animals and poultry, not separately distinguished :—				
Fish meal† ... ..	<i>Th. tons</i>	15·7	9·8	25·5
	£'000	251	152	403
Other ... ..	<i>Th. tons</i>	0·2	—	0·2
	£'000	3	—	3
Medicines, spices and condiments for animals	£'000	383	—	383
Other goods made ... ..	£'000	102	5	107
<b>TOTAL VALUE OF GOODS MADE (GROSS OUTPUT)</b>	£'000	5,737	339	6,076

\* Owing to the possible disclosure of information relating to individual firms, separate particulars for England and Wales and for Scotland, cannot be given.

† So far as recorded separately.



## III. Employment

## A.—NUMBERS EMPLOYED IN WEEK ENDED 18TH OCTOBER, 1930

Persons employed	Males		Females		Males and females	
	Under 18	All ages	Under 18	All ages	Under 18	All ages
	<i>England and Wales</i> :—					
Operatives ... ..	272	2,851	323	1,038	595	3,889
Administrative, etc.* ...	75	973	66	389	141	1,362
TOTAL ... ..	347	3,824	389	1,427	736	5,251
<i>Scotland</i> :—						
Operatives ... ..	6	279	1	19	7	298
Administrative, etc.* ...	—	43	1	13	1	56
TOTAL ... ..	6	322	2	32	8	354
<i>Great Britain</i> :—						
Operatives ... ..	278	3,130	324	1,057	602	4,187
Administrative, etc.* ...	75	1,016	67	402	142	1,418
TOTAL ... ..	353	4,146	391	1,459	744	5,605

\* Administrative, technical and clerical staff.

## B.—OPERATIVES EMPLOYED IN ONE WEEK IN EACH MONTH OF 1930

Week ended	Males and females			Week ended	Males and females		
	England and Wales	Scotland	Great Britain		England and Wales	Scotland	Great Britain
Jan. 18 ...	4,177	346	4,523	July 19 ...	3,724	332	4,056
Feb. 15 ...	4,165	372	4,537	Aug. 16 ...	3,726	333	4,059
Mar. 15 ...	4,037	390	4,427	Sept. 13 ...	3,908	328	4,236
April 12 ...	4,017	415	4,432	Oct. 18 ...	3,889	298	4,187
May 17 ...	3,975	417	4,392	Nov. 15 ...	3,915	302	4,217
June 21 ...	3,745	335	4,080	Dec. 13 ...	3,955	276	4,231
AVERAGE FOR THE TWELVE MONTHS ... ..					3,936	345	4,281

## IV. Power

## PARTICULARS OF PRIME MOVERS, ELECTRIC GENERATORS AND ELECTRIC MOTORS

Power equipment	England and Wales		Scotland		Great Britain	
	Ordinarily in use	In reserve or idle	Ordinarily in use	In reserve or idle	Ordinarily in use	In reserve or idle
	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
<b>PRIME MOVERS</b>						
Reciprocating steam engines ... ..	3,515	145	395	100	3,910	245
Internal combustion engines :—						
Gas ... ..	1,048	519	—	65	1,048	584
Petrol, kerosene, or other light oils ...	33	—	5	—	38	—
Heavy oils ... ..	—	—	65	—	65	—
Water engines ... ..	20	—	—	—	20	—
TOTAL ... ..	4,616	664	465	165	5,081	829
TOTAL OF PRIME MOVERS INSTALLED ... ..	5,280		630		5,910	
<b>ELECTRIC GENERATORS</b>	Kw.	Kw.	Kw.	Kw.	Kw.	Kw.
Driven by						
Reciprocating steam engines ... ..	482	238	51	28	533	266
Internal combustion engines :—						
Gas ... ..	55	18	—	—	55	18
Petrol, kerosene, or other light oils ... ..	—	—	4	—	4	—
Heavy oils ... ..	—	—	5	—	5	—
TOTAL ... ..	537	256	60	28	597	284
TOTAL OF ELECTRIC GENERATORS INSTALLED ... ..	793		88		881	
<b>ELECTRIC MOTORS</b>	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
Driven by						
Electricity generated in same works ...	296	60	45	—	341	60
Electricity generated in other works under same ownership ... ..	—	—	77	—	77	—
Purchased electricity ... ..	10,010	1,436	1,115	239	11,125	1,675
TOTAL ... ..	10,306	1,496	1,237	239	11,543	1,735
TOTAL OF ELECTRIC MOTORS INSTALLED ... ..	11,802		1,476		13,278	



## V. Consumption of fuel

Kind of fuel used	England and Wales	Scotland	Great Britain
	Tons	Tons	Tons
Coal used for power ... ..	12,811	5,147	17,958
Coke used for power ... ..	1,018	357	1,375
	B.T.U. (Kw.-hrs.) '000	B.T.U. (Kw.-hrs.) '000	B.T.U. (Kw.-hrs.) '000
Electricity used for all purposes :—			
Generated in same works ... ..	257	37	294
Generated in other works under same ownership ... ..	—	26	26
Purchased ... ..	9,102	773	9,875
TOTAL—Electricity ... ..	9,359	836	10,195