

THE SUGAR AND GLUCOSE TRADE

INTRODUCTORY

This trade comprises firms that were wholly or mainly engaged in the production and refining of sugar and the manufacture of glucose.

Table I A.—General summary

Particulars	1935			1930			1924
	Firms mainly engaged in beet sugar production	Other firms in the Sugar and Glucose Trade	Total	Firms mainly engaged in beet sugar production	Other firms in the Sugar and Glucose Trade	Total	
	£'000	£'000	£'000	£'000	£'000	£'000	£'000
Value of products (Gross output) ...	10,398	32,108	42,506	10,160	33,956	44,116	53,016
Subsidy ...	2,219	—	2,219	6,022	—	6,022	—
Total ...	12,617	32,108	44,725	16,182	33,956	50,138	53,016
Cost of materials, fuel and electricity used ...	10,300	26,657	36,957	12,037	28,458	40,495	33,101
Amount paid for work given out	5	—	5	—	—	—	—
Estimated Excise duty ...	1,020	1,480	2,500	1,330	970*	2,300	15,700
Net output ...	1,292	3,971	5,263	2,815	4,528	7,343	4,215
Average number of persons employed ...	No.	No.	No.	No.	No.	No.	No.
of persons employed ...	5,046	11,461	16,507	5,540	11,370	16,910	12,621
Net output per person employed	£	£	£	£	£	£	£
Number of returns ...	256	346	319	508	398	434	334
Number of returns ...	No.	No.	No.	No.	No.	No.	No.
Number of establishments ...	18	25	43	18	29	47	36
Number of establishments ...	18	25	43	18	31	49	†

* Corrected figure.

† Not available.

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

Particulars	1935	1930	1924
Number of returns received ...	No. 13	No. 18	No. 14
Average number of persons employed :—			
Males ...	40	75	61
Females ...	8	24	6
TOTAL ...	48	99	67
Number of firms not making returns ...	—	—	—

In 1924 the value of the gross output of the small firms making returns was 0.5 per cent. of the total, the principal class of goods affected being caramel, of which these firms recorded 26.9 per cent.

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.	£
11-49 ...	5	303	116	159	731
50-99 ...	6	596	188	395	476
100-199...	6	2,502	405	1,020	397
200-299...	10	5,717	612	2,568	238
300-399...	11	8,680	1,541	3,682	418
400 and over ...	5	24,708	2,401	8,683	276
TOTAL ...	43	42,506	5,263	16,507	319

* Excluding subsidy paid to beet sugar manufacturers but including Excise duty.

† Including estimated subsidy paid to beet sugar manufacturers but excluding estimated Excise duty.

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.	£	
1 ...	1935	15	16,739	1,900	6,604	288
	1930	14	16,911	2,428	6,186	393
2 ...	1935	6	12,195	1,687	4,070	414
	1935	8	4,137	511	1,685	304
3 and 5 to 7 ...	1935	10	5,406	747	3,031	246
	1935	10	5,406	747	3,031	246
10 ...	1935	24	21,738	2,945	8,786	335
	1930	28	22,615	4,572	9,361	488
2 to 10 ...	1935	4	4,029	418	1,117	374
	1930	5	4,590	343	1,363	252
14 and 15 ...	1935	4	4,029	418	1,117	374
	1930	5	4,590	343	1,363	252
TOTAL ...	1935	43	42,506	5,263	16,507	319
	1930	47	44,116	7,343	16,910	434

* For particulars see page xviii.

† Number of returns for 1930.

‡ Excluding subsidy paid to beet sugar manufacturers but including Excise duty.

§ Including estimated subsidy paid to beet sugar manufacturers but excluding estimated Excise duty.

Table IV (see Table I A)

PRODUCTION

Table V A.—Output of principal products

Kind of output	1935			1930	
	Quantity	Value	Entries	Quantity	Value
Sugar, unrefined ... (a)	Th. cwts. 5,376	£'000 2,703	No. 9	Th. cwts. 3,555	£'000 1,814
Sugar, refined, or rendered by any process equal thereto :—					
Over 98° polarisation ... (a)	7,744	6,475	12	8,563	7,586
(b)	34,047	26,143	13	28,872	26,798
Not exceeding 98° polarisation ... (a)	9	6	3	24	17
(b)	1,565	1,028	9	1,220	1,085
Total — Refined sugar ... (a)	7,753	6,481	...	8,587	7,603
(b)	35,612	27,171	...	30,092	27,883
(a) and (b)	43,365*	33,652	...	38,679	35,486
Glucose :—					
Solid ... (b)	202	179	5	} 1,838	1,560
Liquid ... (b)	1,867	1,488	8		
Molasses and invert sugar† :—					
Containing 70 per cent. or more of sweetening matter (b)	2,408	2,078	14	2,625	2,937
Containing under 70 per cent. of sweetening matter (a)	1,027	103	19	2,432	227
(b)	1,983	722	15	2,340	842
Total—Molasses (a)	1,027	103	...	2,432	227
(b)	4,391	2,800	...	4,965	3,779
(a) and (b)	5,418	2,903	...	7,397	4,006
Caramel, solid and liquid ... (b)	179	301	17	219	366
Beet pulp :—					
Plain ... (a)	759	148	17	} 3,789‡	515‡
Molassed ... (a)	4,771	938	16		
Wet pulp ... (a)	2,054	24	11		
Total—Beet pulp ... (a)	7,584	1,110	...	3,789‡	515‡
TOTAL — PRINCIPAL PRODUCTS ... (a) and (b)	...	42,336	...	...	43,747

(a) Returned by firms mainly engaged in beet sugar production.

(b) Returned by other firms.

* Including 11,183,000 cwts. manufactured from home-grown beet, the estimated corresponding total for 1930 being 8,500,000 cwts.

† Including all other sugar and extracts from sugar which cannot be completely tested by the polariscope.

‡ So far as recorded separately.

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			1930	
	Quantity	Value	Entries	Quantity	Value
Molasses and invert sugar ...	Th. cwts. 51	£'000 39	No. 1	Th. cwts. 13	£'000 13
Caramel, solid and liquid ...	38	57	5	3	4
TOTAL ...	...	96	...	...	17

Table V B.—Output of principal products, 1924-1935

Kind of goods	1924	1930	1935
Sugar, unrefined ...	{ Th. cwts. * £'000 *	3,555 1,814	5,376 2,703
Sugar, refined, or rendered by any process equal thereto :—			
Over 98° polarisation ...	{ Th. cwts. 17,771 £'000 40,469	37,435 34,384	41,791 32,618
Not exceeding 98° polarisation ...	{ Th. cwts. 2,114 £'000 4,235	1,244 1,102	1,574 1,034
Total—Refined sugar ...	{ Th. cwts. 19,885 £'000 44,704	38,679 35,486	43,365 33,652
Glucose, solid and liquid ...	{ Th. cwts. 1,712 £'000 2,393	1,838 1,560	2,069 1,667
Molasses and invert sugar† :—			
Containing 70 per cent. or more of sweetening matter ...	{ Th. cwts. 2,261 £'000 4,061	2,625 2,937	2,408 2,078
Containing under 70 per cent. of sweetening matter ...	{ Th. cwts. 1,621 £'000 1,017	4,772 1,069	3,010 825
Total—Molasses ...	{ Th. cwts. 3,882 £'000 5,078	7,397 4,006	5,418 2,903
Caramel, solid and liquid ...	{ Th. cwts. 109 £'000 242	219 366	179 301
Beet pulp ...	{ Th. cwts. 318 £'000 37	3,789 515	7,584 1,110
TOTAL ...	£'000 52,454	43,747	42,336

* Not recorded separately.
† See footnote (†) to Table V A.

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

Kind of goods	Production (at factory)		1935 as a percentage of 1930	Exports (f.o.b.)		Imports (c.i.f.)	
	Average value	1935 as a percentage of 1930		Average value	Average value		
	1935	1930	1935	1930	1935	1930	
Sugar, unrefined ... (a)	s. per cwt. 10.1	s. per cwt. 10.2	Per cent. 98.5	s. per cwt. *	s. per cwt. *	s. per cwt. *	s. per cwt. *
Sugar, refined :—							
Over 98° polarisation... (a)	16.7	17.7	94.4	* * * *	* * * *	* * * *	* * * *
... (b)	15.4	18.6	82.7				
Not exceeding 98° polarisation (a)	11.4	14.6	78.4	* * * *	* * * *	* * * *	* * * *
... (b)	13.1	17.8	74.0				
Total { (a) 16.7 (b) 15.3	17.7	18.5	94.4 82.3	* * * *	* * * *	* * * *	* * * *
Total (a) and (b)	15.5	18.3	84.6	8.2	11.8	7.5	10.9
Glucose :—							
Solid ... (b)	17.7	21.4	82.8	116.0	30.7	19.9	15.3
Liquid ... (b)	15.9	16.0	99.7	15.8	30.3	11.0	14.9
Molasses and invert sugar† :—							
Containing 70 per cent. or more of sweetening matter ... (b)	17.3	22.4	77.1	* * * *	* * * *	* * * *	* * * *
Containing under 70 per cent. of sweetening matter ... (a)	2.0	1.9	108.0				
... (b)	7.3	7.2	101.1				
Total (a) and (b)	10.7	10.7	99.8	7.0	11.0	2.7	3.9
Caramel :—							
Solid ... (b)	42.3	46.5	91.0	44.9	42.9	...	...
Liquid ... (b)	33.6	33.4	100.6	27.3	34.5	...	...

(a) Returned by firms mainly engaged in beet sugar production.

(b) Returned by other firms.

* Not recorded separately.

† See footnote (†) to Table V A.

Table VII.—Volume of Production, 1924-1935

Kind of output	Total production			Production index (1935 = 100)	
	1935 as returned	1930		1924	1930
		As returned	At 1935 average values		
	£'000	£'000	£'000	Per cent.	Per cent.
Sugar, unrefined ...	2,703	1,814	1,787	...	66
Sugar, refined :—					
Over 98° polarisation ...	32,618	34,384	29,327	43	90
Not exceeding 98° polarisation ...	1,034	1,102	816	134	79
Total—Sugar, refined ...	33,652	35,486	30,143	46	90
Glucose, solid and liquid ...	1,667	1,560	1,495	84	90
Molasses and invert sugar :—					
Containing 70 per cent. or more of sweetening matter ...	2,078	2,937	2,265	94	109
Containing under 70 per cent. of sweetening matter ...	825	1,069	1,096	45	133
Total — Molasses and invert sugar ...	2,903	4,006	3,361	80	116
Caramel, solid and liquid ...	301	366	368	61	122
Beet pulp ...	1,110	515	555	4	50
TOTAL ...	42,336	43,747	37,709	49	89

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	
							Th. cwts.
Sugar, refined ...	1935	43,365	6,680	15.4	1,023	37,708	97.3
	1930	38,679	5,581	14.4	1,092	34,190	96.8
Molasses and invert sugar and all other sugar and extracts from sugar ...	1935	5,418	1,153	21.3	8,679	12,944	33.0
	1930	7,397	1,297	17.5	5,706	11,806	51.7
Glucose :—							
Solid ... 1935	202	5	2.4	53	250	79.0	
Liquid ... 1935	1,867	14	0.8	324	2,177	85.1	
Total ...							
1935	2,069	19	0.9	377	2,427	84.5	
1930	1,838	3	0.2	562	2,397	76.6	
Caramel, solid and liquid ...							
1935	179	19	10.8	0.0	160	99.9	
1930	219	16	7.1	0.0	203	100.0	

Table IX.—Other output of the Sugar and Glucose Trade

The value of the gross output (excluding subsidy) of the firms whose returns were made on schedules for the Sugar and Glucose Trade was £42,506,000 in 1935 and £44,116,000 in 1930, of which £42,240,000 in 1935 and £43,730,000 in 1930 consisted of products included in Table V A. Particulars of the remaining items are shown below.

Kind of output	1935	1930
	£'000	£'000
Farinaceous products ...	14	135
Animal feeding stuffs ...	156	101
Chemical manufactures ...	40	68
Other goods ...	56	82
TOTAL ...	266	386

MATERIALS AND FUEL

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

Kind of materials, etc.	1935		1930
	Quantity	Cost	Cost
	Th. tons	£'000	£'000
Fuel and electricity used for all purposes :—			
Coal ...	1,063.3	965	40,495
Coke ...	21.9	33	
Heavy fuel oil ...	64	2	
Purchased electricity ...	6,316 (Kw.-hrs.)	24	
All purchased materials and other fuel...		35,933	
TOTAL ...		36,957	40,495

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

Kind of fuel	1935	1930
Coal ...	Th. tons 1,063.3	Th. tons 1,147.6
Coke ...	21.9	21.0
Electricity :—	Th. B.T.U. (Kw.-hrs.)	Th. B.T.U. (Kw.-hrs.)
Generated in same works...	145,101	118,520
Purchased ...	6,316	6,639
Total electricity consumed ...	151,417	125,159

EMPLOYMENT

Table XI A.—Average numbers employed

Persons employed	Males		Females		Total		
	Under 18	All ages	Under 18	All ages	Under 18	All ages	
Operatives (average for the year) ...	1935	295	13,339	268	1,314	563	14,653
	1930	383	13,320	589	1,745	972	15,065
Administrative, technical and clerical staff* ...	1935	88	1,564	42	290	130	1,854
	1930	134	1,555	56	290	190	1,845
TOTAL ...	1935	383	14,903	310	1,604	693	16,507
	1930	517	14,875	645	2,035	1,162	16,910

* As at 12th October, 1935, and 18th October, 1930.

Table XI B.—Operatives employed in one week in each month of 1930 and 1935 by firms furnishing returns in respect of the twelve months ended December

Mid week of*	Operatives employed		Monthly index†	
	1930	1935	1930	1935
January ...	1,203	763	101.5	96.5
February ...	1,205	774	101.7	97.9
March ...	1,199	762	101.2	96.4
April ...	1,196	760	101.0	96.1
May ...	1,209	759	102.1	96.0
June ...	1,221	770	103.1	97.4
July ...	1,224	808	103.3	102.2
August ...	1,224	811	103.3	102.6
September ...	1,235	810	104.2	102.5
October ...	1,232	823	104.0	104.1
November ...	1,235	827	104.2	104.6
December ...	1,235	819	104.2	103.6
Average for the twelve months ...	1,218	791	102.8	100.0
Proportion of total operatives represented ...	8.08	5.40	...	...

* 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 ...	11,355	1,266	12,621
1930 ...	15,065	1,845	16,910
1935 ...	14,653	1,854	16,507

WAGES

Table XII.—Wages paid by firms furnishing returns of wages

The aggregate amount of wages paid by firms furnishing returns of wages was £2,081,000 in 1935 representing 46.1 per cent. of the net output of these firms, the corresponding figures for 1930 being £1,851,000 and 31.7 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	39,662	88.7	37,834	75.5
	4,510	85.7	5,836	77.1
Operative staff employed :—	No.		No.	
During mid-week of October :—				
Males	13,948	82.0	*	*
Females	1,667	99.5		
Total	15,615	83.6	13,849	72.2
Average for the year	12,830	87.6	10,729	71.2
Administrative, technical and clerical staff	1,477	79.7	*	*
Number of establishments	30	69.8	...	...

* 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 Sugar and Glucose Trade. No production was recorded for Northern Ireland.

Table I.—General summary

Particulars	Unit	England and Wales	Scotland	Great Britain
Value of products (Gross output) ...	£'000	38,477	4,029	42,506
Subsidy paid ...	"	*	*	2,219
Total ...	"	*	*	44,725
Cost of materials, fuel and electricity used ...	"	33,342	3,615	36,957
Amount paid for work given out ...	"	5	—	5
Estimated Excise duties ...	"	*	*	2,500
Net output ...	"	4,845	418	5,263
Average number of persons employed ...	No.	15,390	1,117	16,507
Net output per person employed ...	£	315	374	319
Number of returns ...	No.	39	4	43
Number of establishments ...	"	39	4	43

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

Table II.—Output

Kind of output	Unit	England and Wales	Scotland	Great Britain
Sugar, unrefined ...	Th. cwt.	5,376	—	5,376
Sugar, refined, or rendered by any process equal thereto :—	£'000	2,703	—	2,703
Over 98° polarisation ...	Th. cwt.	37,299	4,492	41,791
Not exceeding 98° polarisation ...	£'000	28,876	3,742	32,618
Glucose :—	Th. cwt.	*	*	1,574
Solid ...	£'000	202	—	202
Liquid ...	Th. cwt.	179	—	179
Molasses and invert sugar† :—	Th. cwt.	1,867	—	1,867
Containing 70 per cent. or more of sweetening matter ...	£'000	1,488	—	1,488
Containing under 70 per cent. of sweetening matter ...	Th. cwt.	*	*	2,408
Caramel, solid and liquid ...	£'000	2,708	251	2,959
	Th. cwt.	741	45	786
	£'000	141	—	141
	£'000	244	—	244

Kind of output	Unit	England and Wales	Scotland	Great Britain
Beet pulp :—	Th. cwt.	759	—	759
Plain ...	£'000	148	—	148
Molassed ...	Th. cwt.	*	*	4,771
	£'000			938
	Th. cwt.			2,054
Wet pulp ...	£'000			24
Farinaceous products ...	£'000	14	—	14
Animal feeding stuffs ...	£'000	156	—	156
Chemical manufactures ...	£'000	40	—	40
Other goods ...	£'000	56	—	56
TOTAL—VALUE OF GOODS MADE ...	£'000	38,477	4,029	42,506

* Owing to the possible disclosure of information relating to individual firms, separate particulars cannot be given.

† See footnote (†) to Table V A, page 133.

Table III A.—Materials fuel and electricity purchased and used

Kind of materials, etc.	Unit	England and Wales	Scotland	Great Britain
Fuel and electricity used for all purposes :—				
Coal ...	Th. tons	959.0	104.3	1,063.3
	£'000	883	82	965
Coke ...	Th. tons	21.3	0.6	21.9
	£'000	32	1	33
Heavy fuel oil ...	Th. galls.	64	—	64
	£'000	2	—	2
Purchased electricity ...	Th. B.T.U. (Kw.-hrs.)	6,086	230	6,316
	£'000	23	1	24
All purchased materials and other fuel ...	£'000	32,402	3,531	35,933
TOTAL ...	£'000	33,342	3,615	36,957

Table III B.—Consumption of electricity

Electricity consumed	England and Wales	Scotland	Great Britain
Generated in same works ...	Th. B.T.U. (Kw.-hrs.)	Th. B.T.U. (Kw.-hrs.)	Th. B.T.U. (Kw.-hrs.)
	137,251	7,850	145,101
Purchased ...	6,086	230	6,316
Total ...	143,337	8,080	151,417

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
England and Wales :—						
Operatives	359	16,194	310	1,558	669	17,752
Administrative, etc.*... ..	83	1,463	39	262	122	1,725
Total	442	17,657	349	1,820	791	19,477
Scotland :—						
Operatives	17	813	32	118	49	931
Administrative, etc.*... ..	5	101	3	28	8	129
Total	22	914	35	146	57	1,060
Great Britain :—						
Operatives	376	17,007	342	1,676	718	18,683
Administrative, etc.*... ..	88	1,564	42	290	130	1,854
TOTAL	464	18,571	384	1,966	848	20,537

* Administrative, technical and clerical staff.

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

Week ended	Males and females		
	England and Wales	Scotland	Great Britain
January 19	15,032	1,017	16,049
February 16... ..	11,147	893	12,040
March 16	11,717	1,086	12,803
April 13	11,436	904	12,340
May 18	11,777	1,087	12,864
June 15	11,957	925	12,882
July 13	12,036	829	12,865
August 17	12,741	1,066	13,807
September 14	12,087	919	13,006
October 12	17,752	931	18,683
November 16	18,122	1,275	19,397
December 14	18,180	920	19,100
Average for the twelve months	13,665	988	14,653

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

Particulars	England and Wales	Scotland
	No.	No.
Number of returns received	13	—
Average number of persons employed :—		
Males	40	—
Females	8	—
Total	48	—