

THE SEED CRUSHING TRADE

INTRODUCTORY

This trade comprises firms that were engaged wholly or mainly in the extraction of oils from vegetable seeds, nuts or kernels.

In each year returns were received from all firms, each of whom employed more than ten persons on the average.

Table I.—General summary

Particulars	1935	1934	1933	1930	1924
Value of products (Gross output)...	£'000 22,625	£'000 17,189	£'000 17,568	£'000 21,824	£'000 36,422
Cost of materials, fuel and electricity used	18,176	13,289	14,936	19,407	32,512
Amount paid for work given out...	27	31	28	*	*
Net output	4,422	3,869	2,604	2,417	3,910
Average number of persons employed	No. 11,542	No. 10,754	No. 10,671	No. 10,992	No. 14,027
Net output per person employed...	£ 383	£ 360	£ 244	£ 220	£ 279
Number of returns	39	*	*	32	49
Number of establishments	49	*	*	59	*

* Not available.

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	8	438	76	257	297
50-99	12	1,474	226	863	262
100-199... ..	15	4,199	792	2,215	358
200-399... ..	9	6,710	1,270	2,792	455
500 and over	5	9,804	2,058	5,415	380
TOTAL	49	22,625	4,422	11,542	383

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	8	3,509	721	1,401	514
... .. { 1930	4	2,457	289	940	308
2 and 3 { 1935	8	9,430	1,859	5,156	361
... .. { 1930	6	8,012	836	4,888	171

Area*	Number of establishments†	Gross output	Net output	Number of persons employed	Net output per person employed
	No.	£'000	£'000	No.	£
7 and 8 ... 1935	5	1,868	402	1,069	376
10... .. 1935	22	7,041	1,318	3,451	382
7, 8 and 10 { 1935	27	8,909	1,720	4,520	381
... .. { 1930	15	10,003	1,181	4,521	261
14, 15 and { 1935	6	777	122	465	262
17 { 1930	7	1,352	111	643	173
TOTAL ... { 1935	49	22,625	4,422	11,542	383
... .. { 1930	32	21,824	2,417	10,992	220

* For particulars see page xviii.

† Number of returns for 1930.

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

PRODUCTION

Table V A.—Total make of Unrefined Oils, 1924-1935

(including oils subsequently refined in the same works)

Kind of oil*	1924	1930	1933	1934	1935	Number of entries
	Thousand tons					
Coconut	46.2	44.7	58.6	60.7	68.6	5
Cotton seed	87.4	91.7	70.3	102.4	111.1	31
Ground nut	30.3	49.7	52.9	50.7	64.1	9
Linseed	124.8	68.3	88.1	64.3	70.5	33
Palm kernel	127.7	54.6	63.8	58.2	74.3	8
Rape seed	25.6	4.2	7.4	7.9	9.8	2
Soya bean	16.5	18.5	24.7	26.8	23.9	11
Castor	} 25.4	} 19.7	14.0	16.2	15.8	2
Other sorts			4.2	4.6	12.2	11
TOTAL	483.9	351.4	384.0	391.8	450.3	...

* Including the following amounts returned on schedules for other trades:—

Kind of oil	1924	1930	1933	1934	1935	Number of entries
	Thousand tons					
Cotton seed	—	0.1	—	—	—	—
Ground nut	—	2.4	—	—	—	—
Linseed	—	—	—	—	†	1
Palm kernel	—	—	5.6	4.7	—	—
Soya bean	—	2.8	—	—	—	—
Castor	} —	} 0.7	} 0.6	0.1	—	—
Other sorts				0.6	8.7	7
TOTAL	—	6.0	6.2	5.4	8.7	...

† Less than 50 tons.

Table V B.—Principal products made for sale

Kind of output	1935			1934	
	Quantity	Value	Entries	Quantity	Value
	Th. tons	£'000	No.	Th. tons	£'000
Unrefined oils :—					
Castor	15.7	482	2	16.1	417
Coconut	48.9	819	5	39.3	540
Cotton seed	40.4	921	24	29.5	412
Ground nut	39.0	1,013	9	24.6	440
Linseed	59.6	1,344	31	54.4	1,119
Palm kernel	64.6	1,088	8	50.4	728
Rape seed	5.3	150	2	4.3	104
Soya bean	10.7	241	10	14.3	214
Other sorts, including mixed oils	10.2	192	11	3.0	48
TOTAL—Unrefined oils...	294.4	6,250	...	235.9	4,022
Refined oils :—					
Coconut	13.3	275	3	14.0	275
Cotton seed	97.0	2,534	29	98.4	1,713
Ground nut	36.5	1,129	17	34.8	822
Linseed :—					
Boiled	25.7	661	62	23.3	548
Refined	18.2	446	27	17.9	406
Palm kernel	10.4	223	7	10.1	216
Rape seed	6.7	208	10	4.9	129
Soya bean	37.1	931	13	22.9	439
Other sorts, including mixed oils	28.6	823	...	28.0	753
TOTAL—Refined oils ...	273.5	7,230	...	254.3	5,301
Oil-seed cake and meal :—					
Coconut	37.0	206	5	30.0	161
Cotton seed	437.2	1,955	31	369.1	1,594
Ground nut	48.5	301	10	33.8	203
Linseed	157.7	1,275	33	130.1	1,139
Palm kernel	69.5	382	9	57.1	315
Rape seed	17.3	72	2	12.5	50
Soya bean	105.7	694	10	115.6	720
Compound :—					
Sweetened	480.4	2,938	19	669.1	4,646
Not sweetened	325.8	2,211	12		
Other sorts	36.3*	150*	11	30.6	112
Unclassified	—	—	—	0.5	3
TOTAL—Oil - seed cake and meal	1,715.4	10,184	...	1,448.4	8,943
Acid oils (including fatty acids and oleines)... ..	36.9	636	40	27.7	453
Work done for the trade or on commission ... ..	...	40†	6	...	32†
TOTAL — PRINCIPAL PRODUCTS ... ..	...	24,340	...	...	18,751

* Including some oil-seed cake purchased and ground.
† 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.

Kind of output	1935			1934	
	Quantity	Value	Entries	Quantity	Value
	Th. tons	£'000	No.	Th. tons	£'000
Unrefined oils :—					
Palm kernel	8.7	168	7	4.7	68
Other sorts				0.7	15
Refined oils :—					
Cotton seed	11.0	255	9	8.8	186
Ground nut	13.5	391	7	10.2	255
Palm kernel	1.6	29	3	2.5	69
Soya bean	3.9	90	4	3.5	80
Coconut and rape	7.8	175	9	38.5	888
Linseed	31.7	803	70		
Other sorts, including mixed oils	3.9	80	20	8.2	211
Oil-seed cake and meal :—					
Palm kernel	0.1	*	1	6.4	32
Other sorts	6.7	35	7	6.6	31
Unclassified	—	—	—	0.1	1
Acid oils	26.0	497	26	18.3	357
Work done for the trade ... ..	...	6†	1	—	—
TOTAL ... ..	...	2,529	...	...	2,193

* Less than £500.
† Amount received.

Table V C.—Output for sale of certain principal products, 1924-1935

Kind of output	1924	1930	1933	1934	1935
Unrefined oils :—					
Coconut	<i>Th. tons</i> 17.8	28.6	37.0	39.3	48.9
	<i>£'000</i> 788	906	718	540	819
Cotton seed	<i>Th. tons</i> 29.9	30.7	19.5	29.5	40.4
	<i>£'000</i> 1,212	794	340	412	921
Ground nut	<i>Th. tons</i> 18.8	18.3	27.8	24.6	39.0
	<i>£'000</i> 868	573	645	440	1,013
Linseed	<i>Th. tons</i> 118.7	60.5	77.5	54.4	59.6
	<i>£'000</i> 4,797	2,125	1,454	1,119	1,344
Palm kernel	<i>Th. tons</i> 113.3	44.5	58.2	50.4	64.6
	<i>£'000</i> 4,644	1,331	1,053	728	1,088
Rape seed	<i>Th. tons</i> 15.8	2.3	4.4	4.3	5.3
	<i>£'000</i> 648	70	112	104	150
Soya bean	<i>Th. tons</i> 4.8	6.7	10.6	14.3	10.7
	<i>£'000</i> 187	209	201	214	241
Other sorts, including castor and mixed oils	<i>Th. tons</i> 13.3	15.6	17.5	19.1	25.9
	<i>£'000</i> 584	558	475	465	674
TOTAL—Unrefined oils... ..	<i>Th. tons</i> 332.4	207.2	252.5	235.9	294.4
	<i>£'000</i> 13,728	6,566	4,998	4,022	6,250

Kind of output	1924	1930	1933	1934	1935
Refined oils :—					
Coconut ...	<i>Th. tons</i> 27.5	18.6	15.5	14.0	13.3
	<i>£'000</i> 1,412	681	391	275	275
Cotton seed ...	<i>Th. tons</i> 78.4	99.0	71.6	98.4	97.0
	<i>£'000</i> 3,578	3,086	1,638	1,713	2,534
Ground nut ...	<i>Th. tons</i> 11.2	37.2	29.6	34.8	36.5
	<i>£'000</i> 603	1,364	835	822	1,129
Linseed :—					
Boiled ...	<i>Th. tons</i> ...		20.8	23.3	25.7
	<i>£'000</i> 47.1	41.8	479	548	661
Refined ...	<i>Th. tons</i> 2,036	1,566	15.2	17.9	18.2
	<i>£'000</i> ...		318	406	446
Palm kernel ...	<i>Th. tons</i> 13.5	13.6	9.0	10.1	10.4
	<i>£'000</i> 656	488	232	216	223
Rape seed ...	<i>Th. tons</i> 15.7	9.9	4.4	4.9	6.7
	<i>£'000</i> 731	345	122	129	208
Soya bean ...	<i>Th. tons</i> 17.7	25.2	28.0	22.9	37.1
	<i>£'000</i> 791	824	644	439	931
Other sorts, including mixed oils ...	<i>Th. tons</i> 59.8	35.5	34.6	28.0	28.6
	<i>£'000</i> 3,277	1,295	1,004	753	823
TOTAL—Refined oils ...	<i>Th. tons</i> 270.9	280.8	228.7	254.3	273.5
	<i>£'000</i> 13,084	9,649	5,663	5,301	7,230
Oil-seed cake and meal :—					
Coconut ...	<i>Th. tons</i> 29.1	24.2	31.5	30.0	37.0
	<i>£'000</i> 254	157	177	161	206
Cotton seed ...	<i>Th. tons</i> 413.0	375.3	251.3	369.1	437.2
	<i>£'000</i> 3,253	2,113	1,252	1,594	1,955
Ground nut ...	<i>Th. tons</i> 45.4	60.4	37.3	33.8	48.5
	<i>£'000</i> 412	413	248	203	301
Linseed ...	<i>Th. tons</i> 271.6	147.7	181.7	130.1	157.7
	<i>£'000</i> 3,163	1,541	1,466	1,139	1,275
Palm kernel ...	<i>Th. tons</i> 116.4	49.3	61.2	57.1	69.5
	<i>£'000</i> 796	262	323	315	382
Soya bean ...	<i>Th. tons</i> 80.9	77.6	91.5	115.6	105.7
	<i>£'000</i> 835	608	621	720	694
Compound ...	<i>Th. tons</i> 435.2	454.8	570.0	660.1	806.2
	<i>£'000</i> 4,328	3,549	3,984	4,646	5,149
Other, including rape seed, and unclassified ...	<i>Th. tons</i> 97.6	41.7	37.4	43.6	53.6*
	<i>£'000</i> 632	175	161	165	222
TOTAL—Oil seed cake and meal ...	<i>Th. tons</i> 1,489.2	1,231.0	1,261.9	1,448.4	1,715.4
	<i>£'000</i> 13,673	8,818	8,232	8,943	10,184
Acid oils (including fatty acids and oleines) ...	<i>Th. tons</i> ...	23.0	20.4	27.7	36.9
	<i>£'000</i> 427	615	388	453	636
Work done for the trade or on commission ...	<i>£'000</i> —	—	27†	32†	40†
TOTAL—PRINCIPAL PRODUCTS	<i>£'000</i> 40,912	25,648	19,308	18,751	24,340

* Including some oil-seed cake purchased and ground.
† Amount received.

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

Kind of goods	Production (at factory)		1935 as a percentage of 1934	Exports (f.o.b.)		Imports (c.i.f.)	
	Average value			Average value		Average value	
	1935	1934	1935	1934	1935	1934	
	£ per ton	£ per ton	Per cent.	£ per ton	£ per ton	£ per ton	£ per ton
Unrefined oils :—							
Castor ...	30.7	25.8	118.7	35.0*	29.7*	27.5*	24.4*
Coconut ...	16.7	13.8	121.7	21.2	16.6	17.8	13.8
Cotton seed ...	22.8	14.0	163.3	22.8	15.8	20.5	13.2
Ground nut ...	26.0	17.9	145.4	24.1	21.2	24.8	16.1
Linseed ...	22.5	20.6	109.7	25.7	25.9	18.4	16.3
Palm kernel ...	16.8	14.5	116.4	17.4	15.1	...	11.5
Rape seed ...	28.3	24.0	118.0	34.2*	29.5*	24.7*	23.4*
Soya bean ...	22.5	14.9	151.1	23.2	17.2	18.7	12.8
Refined oils :—							
Coconut ...	20.7	19.6	105.5	24.4	24.4	24.2	21.0
Cotton seed ...	26.1	17.4	150.1	26.5	20.3	18.3	15.3
Ground nut ...	30.9	23.6	130.7	38.6	28.4	38.2	28.4
Linseed :—							
Boiled ...	25.8	23.5	109.4	28.6	28.2	30.8	31.0
Refined ...	24.5	22.7	107.6	28.7	29.0	28.3	24.3
Palm kernel ...	21.4	21.4	100.0	28.0	20.4	26.9	29.0
Rape seed ...	31.1	26.2	118.6	†	†	†	†
Soya bean ...	25.1	19.2	130.7	26.7	20.9	26.4	39.8
Oil-seed cake and meal :—							
Coconut ...	5.58	5.35	104.2	†	†	†	†
Cotton seed ...	4.47	4.32	103.6	7.13	6.55	3.91	3.74
Ground nut ...	6.21	6.00	103.5	6.39	6.27	5.62	5.14
Linseed ...	8.09	8.75	92.4	8.10	8.95	6.13	6.51
Palm kernel ...	5.50	5.52	99.6	5.52	†	4.42	†
Rape seed ...	4.15	4.00	103.7	4.25	4.28	3.85	3.35
Soya bean ...	6.57	6.23	105.5	7.49	7.15	5.65	5.31
Compound ...	6.39	6.94	92.0	†	†	†	†
Acid oils ...	17.22	16.36	105.3	†	†	†	†

* Including refined oil.
† Included with unrefined oil.
‡ 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.
Unrefined oils :—							
Coconut	819	540	657	36	58	75	80
Cotton seed	921	412	673	74	76	48	73
Ground nut	1,013	440	640	48	47	71	63
Linseed	1,344	1,119	1,227	198	101	129	91
Palm kernel	1,088	728	848	175	69	90	78
Rape seed	150	104	123	299	43	85	82
Soya bean	241	214	323	45	63	99	134
Castor	482	417	495	57	67	89	103
Other sorts, including mixed oils	192	48	56				
TOTAL—Unrefined oils	6,250	4,022	5,042	112	71	86	81
Refined oils :—							
Coconut	275	275	290	207	140	116	105
Cotton seed	2,534	1,713	2,571	81	102	73	101
Ground nut	1,129	822	1,074	31	102	82	95
Linseed :—							
Boiled	661	548	600	124	100	81	91
Refined	446	406	437				
Palm kernel	223	216	216	130	131	87	97
Rape seed	208	129	153	240	151	66	74
Soya bean	931	439	574	48	68	76	62
Other sorts, including mixed oils	823	753	915	205	121	136	111
TOTAL—Refined oils	7,230	5,301	6,830	101	103	85	94
Oil-seed cake and meal :—							
Coconut	206	161	168	79	66	85	82
Cotton seed	1,955	1,594	1,651	94	86	57	84
Ground nut	301	203	210	94	125	78	70
Linseed	1,275	1,139	1,053	174	94	116	83
Palm kernel	382	315	314	167	71	88	82
Soya bean	694	720	759	76	73	86	109
Compound	5,149	4,646	4,273	55	56	71	83
Rape seed	72	50	52	206	80	74	72
Other and unclassified	150	115	128				
TOTAL—Oil-seed cake and meal	10,184	8,943	8,608	89	72	76	85
Acid oils	636	453	477	33	63	56	75
Work done for the trade or on commission ...	40	32	34	...	...	68	85
TOTAL — PRINCIPAL PRODUCTS	24,340	18,751	20,991	96	80	81	86

Table VIII.—Production in relation to Exports and Imports

Kind of goods	Production	Exports	Proportion of produc- tion exported	Retained imports	Avail- able for use in the United Kingdom	Share of home market held by British goods
Unrefined oils :—						
Castor	1935 15.8 1934 16.2	6.8* 8.0*	43.2 49.3	3.7* 3.1*	12.7 11.3	71.0 72.8
Coconut	1935 68.6 1934 60.7	1.4 0.5	2.0 0.8	11.2 16.0	78.4 76.2	85.7 79.0
Cotton seed	1935 111.1 1934 102.4	19.3 9.8	17.4 9.5	0.3 0.3	92.1 92.9	99.6 99.7
Ground nut	1935 64.1 1934 50.7	12.6 0.4	19.7 0.8	7.8 3.5	59.3 53.8	86.9 93.5
Linseed	1935 70.5 1934 64.3	6.1 4.8	8.6 7.4	43.8 32.3	108.2 91.8	60.0 64.8
Palm kernel	1935 74.3 1934 58.2	8.0 1.6	10.8 2.8	0.0 6.5	66.3 63.1	100.0 80.7
Rape seed	1935 9.8 1934 7.9	2.1* 1.4*	21.5 17.2	1.0* 0.6*	8.7 7.1	88.1 91.3
Soya bean	1935 23.9 1934 26.8	0.1 0.5	0.5 1.8	33.5 11.3	57.3 37.6	41.5 70.1
Other sorts	1935 12.2 1934 4.6	4.4* 3.7*	35.9 80.4	95.8* 100.3*	103.6 101.2	7.5 0.9
TOTAL— Unrefined oils	1935 450.3 1934 391.8	60.8* 30.7*	13.5 7.8	197.1* 173.9*	586.6 535.0	66.4 67.5
Refined oils :—						
Coconut	1935 13.3 1934 14.0	1.4 1.8	10.2 13.1	3.9 4.3	15.8 16.5	75.3 73.7
Cotton seed	1935 97.0 1934 98.4	23.3 8.9	24.0 9.1	3.7 2.3	77.4 91.8	95.1 97.4
Ground nut	1935 36.5 1934 34.8	0.9 1.1	2.4 3.0	1.6 1.3	37.2 35.0	95.8 96.4
Linseed :—						
Boiled	1935 25.7 1934 23.3	8.1 7.7	31.7 33.2	0.1 0.1	17.7 15.7	99.7 99.4
Refined	1935 18.2 1934 17.9	0.7 0.9	3.7 4.7	0.5 0.5	18.0 17.5	97.4 97.2
Palm kernel	1935 10.4 1934 10.1	0.6 0.4	6.1 3.6	2.9 3.6	12.7 13.3	77.1 72.7
Soya bean	1935 37.1 1934 22.9	15.3 9.1	41.3 39.7	1.4 0.1	23.2 13.9	94.1 99.2
Other sorts, in- cluding mixed oils	1935 35.3 1934 32.9	2.2 2.5	6.2 7.7	7.2 7.2	40.3 37.6	82.0 80.9
TOTAL— Refined oils...	1935 273.5 1934 254.3	52.5 32.4	19.2 12.7	21.3 19.4	242.3 241.3	91.2 91.9
Oil-seed cake and meal :—						
Cotton seed	1935 437.2 1934 369.1	6.2 1.9	1.4 0.5	187.6 156.5	618.6 523.7	69.7 70.1
Ground nut	1935 48.5 1934 33.8	0.9 1.2	1.8 3.4	190.2 215.2	237.8 247.8	20.0 13.2
Linseed	1935 157.7 1934 130.1	1.6 4.7	1.0 3.6	122.5 96.4	278.6 221.8	56.0 56.5
Soya bean	1935 105.7 1934 115.6	0.5 2.0	0.5 1.7	32.7 8.7	137.9 122.3	76.3 92.9

Kind of goods	Production	Exports	Proportion of production exported	Retained imports	Available for use in the United Kingdom	Share of home market held by British goods
Oil-seed cake and meal (<i>contd.</i>) :—						
Rape seed ... { 1935	17.3	0.6	3.2	7.8	24.5	68.4
... { 1934	12.5	0.5	4.1	11.6	23.6	50.8
Palm kernel ... 1935	69.5	2.6	3.8	1.9	68.8	97.3
Compound and other ... 1935	879.5	12.2	1.4	22.9	890.2	97.4
Total — Palm kernel, compound and other ... { 1935	949.0	14.8	1.6	24.8	959.0	97.4
... { 1934	787.3	11.9	1.5	58.9	834.3	92.9
TOTAL—Oil-seed cake and meal { 1935	1,715.4	24.6	1.4	565.6	2,256.4	74.9
... { 1934	1,448.4	22.2	1.5	547.3	1,973.5	72.3

* Including some refined oil.

Table IX.—Other output of the Seed Crushing Trade

The value of the gross output of the firms whose returns were made on schedules for the Seed Crushing Trade was £22,625,000 in 1935 and £17,189,000 in 1934, of which £21,811,000 in 1935 and £16,558,000 in 1934 consisted of products included in Table V B. Particulars of the remaining items are shown below.

Kind of output	1935		1934	
	Quantity	Value	Quantity	Value
	Th. tons	£'000	Th. tons	£'000
Maize products ...	42.2	297	21.2	118
Poultry foods ...	0.9	9	18.7	168
Lard compound ...	5.5	272	4.3	208
Other products ...	...	74	...	32
Waste products sold (residue oils, cotton linters, etc.) ...	...	162	...	105
TOTAL ...	...	814	...	631

MATERIALS AND FUEL

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

Kind of materials, etc.	1935		1934	
	Quantity	Cost	Quantity	Cost
	Th. tons	£'000	Th. tons	£'000
Seeds :—				
Castor ...	34.8	395	35.7	331
Cotton ...	642.2	3,677	570.0	2,555
Flax or linseed ...	229.4	2,388	194.6	2,126
Rape ...	27.6	246	20.7	180
Soya beans ...	149.8	999	166.4	952
Other sorts ...	5.2	36	8.3	34
Nuts and kernels :—				
Copra ...	109.2	1,164	95.4	866
Ground nuts (arachide, pea or monkey nuts) :—				
Uncorticated ...	10.8	92	9.8	69
Decorticated ...	137.3	1,784	107.9	946
Palm kernels ...	158.9	1,387	113.9	881
Other nuts and kernels ...	4.9	51	5.0	52
Molasses ...	76.4	202		
Fuel and electricity used for all purposes :—				
Coal ...	219.7	165		
Coke ...	8.2	6		
Heavy fuel oil ...	Th. galls. 8	*		4,297
Purchased electricity† ...	Th. B.T.U. (Kw.-hrs.) 54,934	109		
All other purchased materials and fuel...	...	5,475		
TOTAL ...	...	18,176	...	13,289

* Less than £500.

† 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
		Th. tons
Coal ...	219.7	227.1
Coke ...	8.2	14.3
	Th. B.T.U. (Kw.-hrs.)	Th. B.T.U. (Kw.-hrs.)
Electricity :—		
Generated in same works ...	28,395	21,529
Generated in other works under same ownership ...	8,385	3,627
Purchased ...	46,549	30,480
Total electricity consumed ...	83,329	55,636

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) ...	165	9,421	28	314	193	9,735
Administrative, technical and clerical staff* ...	146	8,785	11	257	157	9,042
	73	1,350	31	457	104	1,807
	64	1,282	30	430	94	1,712
TOTAL ...	238	10,771	59	771	297	11,542
	210	10,067	41	687	251	10,754

* 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 ...	8,681	9,007	94.9	97.8	101.8
February ...	8,618	8,930	97.0	97.1	100.9
March ...	8,557	8,998	97.4	96.4	101.6
April ...	8,852	8,642	96.9	99.7	97.6
May ...	8,028	8,658	93.3	90.4	97.8
June ...	7,493	8,411	83.1	84.4	95.0
July ...	7,423	7,934	79.5	83.6	89.6
August ...	8,055	8,643	79.5	90.7	97.6
September ...	8,289	8,931	88.6	93.4	100.9
October ...	8,007	9,092	93.0	90.2	102.7
November ...	8,373	9,394	97.0	94.3	106.1
December ...	8,592	9,579	97.6	96.8	108.2
Average for the twelve months	8,247	8,852	91.5	92.9	100.0
Proportion of total operatives represented ...	91.21	90.93	...	...	...

* 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 ...	12,061	1,966	14,027
1930 ...	9,291	1,701	10,992
1933 ...	8,906	1,765	10,671
1934 ...	9,042	1,712	10,754
1935 ...	9,735	1,807	11,542

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 £1,218,000 in 1935 representing 32.2 per cent. of the net output of these firms, the corresponding figures for 1930 being £1,093,000 and 59.0 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
	£'000	Per cent.	£'000	Per cent.
Gross output ...	18,754	82.9	17,166	78.7
Net output ...	3,776	85.4	1,853	76.7
Operative staff employed :—	No.		No.	
During mid-week of October :—				
Males ...	8,165	84.8	* }	* }
Females ...	267	83.2		
Total ...	8,432	84.8	7,741	84.9
Average for the year ...	8,267	84.9	7,933	85.4
Administrative, technical and clerical staff ...	1,566	86.7	*	*
Number of establishments ...	38	77.6	...	...

* 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 Seed Crushing 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	21,848	777	22,625
Cost of materials, fuel and electricity used ...	"	17,521	655	18,176
Amount paid for work given out ...	"	27	—	27
Net output ...	"	4,300	122	4,422
Average number of persons employed...	No.	11,077	465	11,542
Net output per person employed ...	£	388	262	383
Number of returns ...	No.	34	5	39
Number of establishments ...	"	43	6	49

Table II A.—Total make of Unrefined Oils
(including oils subsequently refined in the same works)

Kind of oils	England and Wales	Scotland	Great Britain
	Th. tons	Th. tons	Th. tons
Castor ...	15.8	—	15.8
Coconut ...	68.6	—	68.6
Cotton seed ...	103.2	7.9	111.1
Ground nut ...	64.1	—	64.1
Linseed... ..	62.7	7.8	70.5
Palm kernel ...	74.3	—	74.3
Rape seed ...	9.8	—	9.8
Soya bean ...	23.9	—	23.9
Other sorts ...	3.5	—	3.5
TOTAL ...	425.9	15.7	441.6

Table II B.—Output made for sale

Kind of output	Unit	England and Wales	Scotland	Great Britain
Unrefined oils :—				
Castor ...	Th. tons	15.7	—	15.7
	£'000	482	—	482
Coconut ...	Th. tons	48.9	—	48.9
	£'000	819	—	819
Cotton seed ...	Th. tons	*	*	40.4
	£'000			921
Ground nut ...	Th. tons	39.0	—	39.0
	£'000	1,013	—	1,013
Linseed ...	Th. tons	52.8	6.8	59.6
	£'000	1,198	146	1,344
Palm kernel ...	Th. tons	64.6	—	64.6
	£'000	1,088	—	1,088
Rape seed ...	Th. tons	5.3	—	5.3
	£'000	150	—	150
Soya bean ...	Th. tons	10.7	—	10.7
	£'000	241	—	241
Other sorts, including mixed oils ...	Th. tons	1.5	—	1.5
	£'000	24	—	24
TOTAL—Unrefined oils ...	Th. tons	*	*	285.7
	£'000			6,082
Refined oils :—				
Coconut ...	Th. tons	*	—	*
	£'000			
Cotton seed ...	Th. tons	*	*	86.0
	£'000			2,279
Ground nut ...	Th. tons	23.0	—	23.0
	£'000	738	—	738
Linseed :—				
Boiled ...	Th. tons	*	*	*
	£'000			
Refined ...	Th. tons	*	*	*
	£'000			
Palm kernel ...	Th. tons	8.8	—	8.8
	£'000	194	—	194
Rape seed ...	Th. tons	*	—	*
	£'000			
Soya bean ...	Th. tons	33.2	—	33.2
	£'000	841	—	841
Other sorts, including mixed oils ...	Th. tons	24.7	—	24.7
	£'000	743	—	743
TOTAL—Refined oils ...	Th. tons	*	*	200.1
	£'000			5,407
Oil-seed cake and meal :—				
Coconut ...	Th. tons	37.0	—	37.0
	£'000	206	—	206
Cotton seed ...	Th. tons	404.1	33.1	437.2
	£'000	1,805	150	1,955
Ground nut ...	Th. tons	48.5	—	48.5
	£'000	301	—	301
Linseed ...	Th. tons	139.3	18.4	157.7
	£'000	1,128	147	1,275
Palm kernel ...	Th. tons	69.4	—	69.4
	£'000	382	—	382

Kind of output	Unit	England and Wales	Scotland	Great Britain
Oil-seed cake and meal (<i>contd.</i>) :—				
Rape seed	<i>Th. tons</i>	17.3	—	17.3
	<i>£'000</i>	72	—	72
Soya bean	<i>Th. tons</i>	105.7	—	105.7
	<i>£'000</i>	694	—	694
Compound :—				
Sweetened	<i>Th. tons</i>	462.3	18.1	480.4
	<i>£'000</i>	2,826	112	2,938
Not sweetened	<i>Th. tons</i>	325.8	—	325.8
	<i>£'000</i>	2,211	—	2,211
Other sorts†	<i>Th. tons</i>	29.6	—	29.6
	<i>£'000</i>	115	—	115
TOTAL—Oil-seed cake and meal				
	<i>Th. tons</i>	1,639.0	69.6	1,708.6
	<i>£'000</i>	9,740	409	10,149
Acid oils (including fatty acids and oleines)	<i>Th. tons</i>	10.9	—	10.9
	<i>£'000</i>	139	—	139
Maize products	<i>Th. tons</i>	42.2	—	42.2
	<i>£'000</i>	297	—	297
Poultry foods	<i>Th. tons</i>	0.9	—	0.9
	<i>£'000</i>	9	—	9
Lard compound	<i>Th. tons</i>	5.5	—	5.5
	<i>£'000</i>	272	—	272
Other products	<i>£'000</i>	71	3	74
Waste products sold (residue oils, cotton linters, etc.)	<i>£'000</i>	162	—	162
Work done for the trade or on commission	<i>£'000</i>	34‡	—	34‡
TOTAL—GOODS MADE FOR SALE AND WORK DONE				
	<i>£'000</i>	21,848	777	22,625

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

† Including some oil-seed cake purchased and ground.

‡ Amount received.

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

Kind of materials, etc.	Unit	England and Wales	Scotland	Great Britain
Seeds :—				
Castor	<i>Th. tons</i>	34.8	—	34.8
	<i>£'000</i>	395	—	395
Cotton	<i>Th. tons</i>	600.6	41.6	642.2
	<i>£'000</i>	3,408	269	3,677
Flax or linseed	<i>Th. tons</i>	202.9	26.5	229.4
	<i>£'000</i>	2,110	278	2,388
Rape	<i>Th. tons</i>	27.6	—	27.6
	<i>£'000</i>	246	—	246
Soya beans	<i>Th. tons</i>	149.8	—	149.8
	<i>£'000</i>	999	—	999
Other sorts	<i>Th. tons</i>	5.2	—	5.2
	<i>£'000</i>	36	—	36
Nuts and kernels :—				
Copra	<i>Th. tons</i>	109.2	—	109.2
	<i>£'000</i>	1,164	—	1,164
Ground nuts :—				
Undecorticated	<i>Th. tons</i>	10.8	—	10.8
	<i>£'000</i>	92	—	92
Decorticated	<i>Th. tons</i>	137.3	—	137.3
	<i>£'000</i>	1,784	—	1,784
Palm kernels	<i>Th. tons</i>	158.9	—	158.9
	<i>£'000</i>	1,387	—	1,387
Other nuts and kernels	<i>Th. tons</i>	4.9	—	4.9
	<i>£'000</i>	51	—	51
Molasses	<i>Th. tons</i>	*	*	76.4
	<i>£'000</i>			202
Fuel and electricity used for all purposes :—				
Coal	<i>Th. tons</i>	210.0	9.7	219.7
	<i>£'000</i>	160	5	165
Coke	<i>Th. tons</i>	8.2	—	8.2
	<i>£'000</i>	6	—	6
Heavy fuel oil	<i>Th. galls.</i>	8	—	8
	<i>£'000</i>	†	—	†
Purchased electricity‡	<i>B.T.U. (Kw.-hrs.)</i>	54,572	362	54,934
	<i>£'000</i>	108	1	109
All other purchased materials and fuel... ..	<i>£'000</i>	*	*	5,475
TOTAL				
	<i>£'000</i>	17,521	655	18,176

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

† Less than £500.

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

Table III B.—Consumption of electricity

Electricity consumed	England and Wales	Scotland	Great Britain
	Th. B.T.U. (Kw.-hrs.)	Th. B.T.U. (Kw.-hrs.)	Th. B.T.U. (Kw.-hrs.)
Generated in same works	28,295	100	28,395
Generated in other works under same ownership	8,385	—	8,385
Purchased	46,187	362	46,549
Total	82,867	462	83,329

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	167	9,283	29	307	196	9,590
Administrative, etc.*	67	1,269	30	439	97	1,708
Total	234	10,552	59	746	293	11,298
Scotland :—						
Operatives	2	343	—	14	2	357
Administrative, etc.*	6	81	1	18	7	99
Total	8	424	1	32	9	456
Great Britain :—						
Operatives	169	9,626	29	321	198	9,947
Administrative, etc.*	73	1,350	31	457	104	1,807
TOTAL	242	10,976	60	778	302	11,754

* 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	9,555	402	9,957
February 16	9,493	391	9,884
March 16	9,564	376	9,940
April 13	9,204	323	9,527
May 18	9,190	385	9,575
June 15	8,827	343	9,170
July 13	8,391	308	8,699
August 17	9,091	380	9,471
September 14	9,448	360	9,808
October 12	9,590	357	9,947
November 16	9,906	376	10,282
December 14	10,165	389	10,554
Average for the twelve months	9,369	366	9,735