

BOARD OF TRADE

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*The Report on the  
Census of Production  
for 1954*

Volume 2: Industry P

SEED CRUSHING AND OIL REFINING



*Presented by the Board of Trade to Parliament in pursuance of the  
Statistics of Trade Act, 1947 (10 & 11 Geo. 6 Ch. 39, Sec. 7)*

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The following notes describe terms in general use in the tables of the report. More detailed explanations of the terms used and a description of the scope and method of taking the census are given in the separate booklet entitled 'The Report on the Census of Production for 1954 - Introductory Notes' (price 1s. 6d. net).

**Industrial Classification:** Establishments are classified to industries according to the nature of their output and, as far as possible, in conformity with the Standard Industrial Classification. Certain products are identified as the principal products of individual industries, the principal products for a given industry being of a similar nature or commonly associated in production. The principle of classification normally followed is that an establishment is classified to an industry if its output of the principal products of that industry accounted for a greater proportion of the value of its output than did its output of the principal products of any other industry.

**Specialist producers** normally comprise those establishments 50 per cent. or more of whose total output by value is accounted for by the characteristic products of the specialist group.

**Intermediate products:** For some industries figures are given showing the total quantities made during the year of intermediate products, i.e., products which may be further processed in the establishments in which they are produced.

**Larger establishments:** The information given in the report relates mainly to 'larger establishments', i.e., establishments of firms employing on the average more than 10 persons. In most cases an establishment comprises the whole of the premises under the same ownership or management at a particular address (e.g., a mine or factory). Offices, warehouses, laboratories and other ancillary places of business situated apart from the producing works are not regarded as separate establishments and are included in the return for the works.

**Small firms** are those employing on the average 10 or fewer persons.

The estimates for the industry as a whole given in Table 1 are normally obtained by increasing the other items shown in the same proportion as total employment.

**Gross output (production)** is the total value of goods made and other work done during the year; it is obtained by adjusting the value of sales and work done during the year for changes in the value of stocks of products on hand for sale and work in progress.

**Net output** is the amount left after deducting from the value of gross output the aggregate of the cost of materials and fuel used, the amount paid for work given out and, for 1951 and 1954, any transport payments made. This represents the value added to materials by the process of production, and constitutes the fund from which wages, salaries, rents; rates and taxes, advertising and other selling expenses and all other similar charges have to be met, as well as depreciation and profits.

**Sales** means sales during the year of goods made in the establishment covered by the return or made on commission for it, whether produced in the year or not. The value of sales is the net selling value, i.e., the amount charged to customers, whether on an ex-works or delivered basis, and net of any trade discounts, agents' commissions, allowances for returnable cases, purchase tax, etc. For goods charged on a delivered basis to customers overseas, firms were required to give the f.o.b. value.

**Materials and fuel:** The total cost of materials and fuel purchased includes all purchases during the year of materials for use in production, and of fuel (includ-

ing oil, gas and electricity) for all purposes: packing materials, including the full cost of returnable cases when first purchased; workshop and office materials; water charges; materials for repairs to buildings, plant and vehicles when carried out by firms' own work-people included in their returns; consumable tools; and parts for machinery purchased as replacements. Purchases of goods for merchanting are excluded. The cost of materials and fuel used, given in Table 2, is obtained by adjusting purchases for changes during the year in the value of stocks.

**Stocks:** Firms were required to give stocks of materials and fuel, products on hand for sale, and work in progress, at income tax values.

**Customs and Excise Duty** paid on materials purchased is normally included in the cost of materials. Finished goods are similarly valued as they were sold, duty-paid or duty-free. The net amount of any duty paid is deducted in arriving at net output.

**Employment:** Total employment includes working proprietors, administrative, technical and clerical employees, and operatives, but excludes outworkers, canteen employees and persons engaged in merchanting or any other activity not covered by a firm's return, who are shown separately as excluded employees. Employees are persons on the pay-roll (i.e., persons whose National Insurance cards were held by employers), whether employed full-time or part-time.

**Working proprietors** are proprietors of businesses other than limited companies, together with members of their families who worked in the business without receiving fixed wages or salaries. Any persons working less than half the normal hours are excluded. For Northern Ireland directors of limited companies (other than those paid by fee only) are also included.

**Administrative, technical and clerical employees** include directors, other than those paid by fee only (except in Northern Ireland); managers, superintendents and works foremen; research, experimental, development, technical and design employees (other than operatives); draughtsmen and tracers; travellers; and office (including works office) employees.

**Operatives** include all other classes of employees, i.e., broadly speaking, all manual workers.

**Outworkers** are persons employed by the firm who work on materials supplied by the firm in their own homes.

**Wages and salaries** include all overtime payments, bonuses and commissions without any deductions for income tax, insurances, contributory pensions etc. They exclude payments to working proprietors.

**Capital expenditure** includes expenditure on new building work, and on plant, machinery and vehicles, charged to capital account during the year, including any transport and installation costs involved. It includes expenditure in respect of establishments in Great Britain which had not begun production before the end of the year (which has not previously been included in the Census of Production reports for individual industries).

**Symbols used:**

.. for not available

- for nil or negligible (less than half the final digit shown).

Where figures are rounded, e.g., given to the nearest £ thousand, there may be apparent slight discrepancies between the sums of constituent items and the totals shown. In some cases, figures have been combined with others of a similar nature where publication of separate details might disclose information relating to an individual undertaking.

## Industry summary

Estimates for the industry as a whole

TABLE 1

	United Kingdom			Scotland 1954	Wales 1954
	1948	1951	1954		
	£ million	£ million	£ million	£ million	£ million
Gross output (production)	26.2	43.3	113.6	6.66	-
Net output	6.0	8.1	15.4	0.61	-
Total stocks and work in progress					
At beginning of year	2.3	3.5	6.6	0.55	-
Change during year	+ 0.1	+ 1.0	+ 12.5	+ 0.49	-
Capital expenditure less disposals (a)	0.6	1.9	1.7	0.15	-
Wages and salaries	3.5	4.1	4.7	0.28	-
Total employment (including working proprietors)	Thousands 9.8	Thousands 9.4	Thousands 8.9	Thousands 0.56	Thousands -

(a) Capital expenditure on new building work, plant, machinery and vehicles (including (except in 1948) that incurred in Great Britain for establishments not yet in production), less amounts received for plant, machinery and vehicles disposed of.

## Summary of returns received

TABLE 2

	Unit	Great Britain	United Kingdom	
		1948	1951	1954
<b>FIRMS EMPLOYING ON AVERAGE MORE THAN 10 PERSONS</b>				
Number of establishments	No.	44	47	42
Total value of sales and work done	£'000	26,218	43,065	109,844
Products on hand for sale	"	867	1,463	1,915
and work in progress	"	+ 92	+ 208	+ 3,483
Gross output (production) (a)	"	26,248	43,274	113,327
Purchases of materials and fuel	"	20,247	35,414	105,485
Stocks of materials and fuel	"	1,405	1,995	4,679
Cost of materials and fuel used	"	+ 11	+ 800	+ 8,952
Payment for work done on materials given out	"	20,236	34,614	96,533
Payment for transport (c)	"	35	15	1,475(b)
Net output	"	62	548	
Average number of employees	No.	5,977	8,097	15,319
operatives	"	7,685	7,405	6,705
others	"	2,135(d)	2,017	2,184
Total employment	"	9,820	9,422	8,889
Net output per person employed	£	609	859	1,723
Wages and salaries	£'000	2,462	2,922	3,251
of operatives	"	1,009	1,133	1,407
of others	"			
Capital expenditure	"			
New building work (e)	"	40	413	619
Plant and machinery	"	539	1,293	1,061
Vehicles	"	27	30	43
acquisitions (e)	"	41	55	64
disposals	"	5	19	16
<b>FIRMS EMPLOYING ON AVERAGE 10 OR FEWER PERSONS</b>				
Number of returns	No.	-	2(f)	4
Total employment, including working proprietors	"	-	16(f)	25

(a) For the year 1948 gross output excludes payments for transport services outwards on finished goods sold. For subsequent years gross output includes payments to other firms and undertakings and to firms' own separate transport organisations for transport services.

(b) Owing to the risk of disclosure of information relating to individual firms, separate figures cannot be given.

(c) Payments to other firms and undertakings and to firms' own separate transport organisations. For the year 1948 payments cover only transport outwards of finished goods sold. For subsequent years they cover payments for transport of both finished goods sold and materials and fuel purchased.

(d) Number in week ended September 25, 1948.

(e) Excluding expenditure for establishments not yet in production.

(f) Excluding Northern Ireland. No information about small firms was collected in Northern Ireland for 1951.

Analysis by size, 1954: Larger establishments in the United Kingdom

TABLE 3

Average number employed	Establishments	Gross output	Net output	Employees		Wages and salaries		Capital expenditure (a)	Net output per person employed
				Operatives	Others	Operatives	Others		
	Number	£'000	£'000	Number	Number	£'000	£'000	£'000	£
11 - 24	8	2,767	209	108	30	51	27	22	1,517
25 - 49	7	2,015	268	162	73	76	44	19	1,140
50 - 99	11	10,266	1,175	585	183	269	129	209	1,531
100 - 199	4	8,182	1,120	495	125	213	78	121	1,806
200 and over	12	90,098	12,547	5,355	1,773	2,642	1,129	1,372	1,760
Total	42	113,327	15,319	6,705	2,184	3,251	1,407	1,744	1,723

(a) Capital expenditure on new building work and on acquisition of plant, machinery and vehicles, excluding expenditure for establishments not yet in production.

TABLE 4 - Analysis according to specialisation within the industry, 1954

Larger establishments in the United Kingdom

No specialisation within this industry was distinguished.

Sales of the principal products of the industry, including sales of these products by establishments classified to other industries

Larger establishments in the United Kingdom

TABLE 5

	1951				1954					
	Goods made and work done on a commission basis for the Ministry of Food		Sales		Goods made and work done on a commission basis for the Ministry of Food			Sales		
	Quantity	Amount charged	Quantity	Value	Quantity	Amount charged	Entries	Quantity	Value	Entries
	Th. tons	£'000	Th. tons	£'000	Th. tons	£'000	Number	Th. tons	£'000	Number
Unrefined oils										
Vegetable and seed oils										
Coconut oil	106.0	614	-	-	34.1	362	14	31.2	3,284	..
Cotton seed oil	22.4	464	-	-	..	..	..	1.9	208	7
Groundnut oil	80.9	710	-	-	58.9	619	14	73.4	9,586	12
Linseed oil	16.0	205	-	1	-	-	-	10.5	767	10
Palm kernel oil	200.2	1,839	-	-	76.2	804	14	76.3	7,054	13
Other sorts	18.0	315	10.8	2,325	..	..	..	20.5	2,411	12
Total unrefined vegetable and seed oils	443.6	4,147	10.8	2,326	169.2	1,785	..	213.8	23,310	..
Vegetable and seed oils partly processed but not refined (e.g. hydrogenated only)	51.7	175	4.1	514	-	2	..	-	-	-
Refined oils										
Vegetable and seed oils										
Hydrogenated										
Palm oil	37.2	171	-	-	23.1	149	6	7.1	688	7
Coconut oil	..	..	-	-	2.5	12	7	5.0	637	7
Groundnut oil	..	..	-	-	6.5	38	8	29.7	4,853	8
Palm kernel oil	59.0	258	-	-	6.6	40	6	14.8	1,765	7
Other sorts	..	..	..	(a)	2.7	20	5	13.9	2,144	15

(56102)

TABLE 5 (contd.)

	1951				1954					
	Goods made and work done on a commission basis for the Ministry of Food		Sales		Goods made and work done on a commission basis for the Ministry of Food			Sales		
	Quantity	Amount charged	Quantity	Value	Quantity	Amount charged	Entries	Quantity	Value	Entries
	Th. tons	£'000	Th. tons	£'000	Th. tons	£'000	Number	Th. tons	£'000	Number
Refined oils (contd.)										
Vegetable and seed oils (contd.)										
Other than hydrogenated										
Coconut oil	40.8	112	-	1	10.6	31	8	16.8	1,980	9
Cotton seed oil	24.4	82	1.2	178	13.2	41	10	27.5	3,509	13
Linseed oil, boiled	-	-	18.6	3,330	-	-	-	15.7	1,365	45
								..	182	..
Linseed oil, refined	-	-	35.4	6,245	-	-	-	44.3	3,956	33
								..	505	..
Linseed oil, boiled and refined, unclassified	-	-	2.5	515	-	-	-	3.3	286	14
Palm kernel oil	64.8	191	4.4	639	18.9	66	14	25.7	2,777	17
								..	347	..
Groundnut oil	40.0	123	..	..	16.1	63	14	17.3	2,576	16
								..	322	..
Palm oil	25.1	96	19.0	4,315	16.9	76	10	19.6	1,925	14
			..	835	..	..	..	..	236	..
Other sorts	70.2	192	..	..	10.5	36	6	17.1	2,711	22
								..	828	..
Fish and marine animal oils										
Whale oil										
Unrefined, hydrogenated	103.5	614	-	-	..	..	..	64.5	5,659	..
Refined	71.2	229	2.5	320	..	..	..	22.2	2,204	11
Other fish and marine animal oils										
Unrefined	6.2	68	1.5	175	114.1	466	13	1.8	88	..
Refined	-	-	8.5	788	..	..	..	14.7	1,051	15
Refined vegetable and seed oils, and fish and marine animal oils, unclassified	353.6	1,025	5.6	922 (b)	..	..	..	22.3	2,947 (b)	10
Total refined vegetable and seed oils; and fish and marine animal oils	896.0	3,161	99.4	17,428	241.6	1,038	..	387.0	43,122	..
			..	835	..	..	..	..	2,419	..

(56102)

TABLE 5 (contd.)

	1951				1954										
	Goods made and work done on a commission basis for the Ministry of Food		Sales		Goods made and work done on a commission basis for the Ministry of Food			Sales							
	Quantity	Amount charged	Quantity	Value	Quantity	Amount charged	Entries	Quantity	Value	Entries					
	Th. tons	£'000	Th. tons	£'000	Th. tons	£'000	Number	Th. tons	£'000	Number					
Oil seed cake and meal (including extracted meals)															
Linseed cake meal	33.1	(c)	0.2	7	-	-	-	13.9	575	9					
Coconut cake and meal	61.5							23.0	577	5					
Groundnut cake and meal decorticated and undecorticated	119.6							10.5	326 (d)	87.6	(c)	13	134.6	5,245	14
Cotton seed cake and meal	97.8							10.9	261	37.4	-	10	88.4	2,199	11
Palm kernel cake and meal	216.8							16.9	468	79.3	-	12	107.9	2,556	13
Compound cake, cubes, meal, etc. (e) (f)															
For cattle	-	-	217.0	6,675	-	-	-	335.8	10,304	6					
For calves	-	-	15.5	499	-	-	-	28.1	1,047	5					
For pigs	-	-	87.3	2,711	-	-	-	157.8	5,025	6					
For poultry	-	-	136.5	4,402	-	-	-	204.6	6,689	5					
Other oil seed cake and meal	46.5	(c)	23.5	687	5.0	(c)	5	60.5	1,739	10					
Total oil seed cake and meal	575.3	(c)	518.3	16,035	209.3	(c)	..	1,154.5	35,956	..					
Acid oils (excluding fatty acids) (g)	14.6	(c)	1.8	197	..	(c)	..	..	2,766	31					
Waste products, including cotton linters	-	-	..	583	-	-	-	..	..	..					
Work done for the trade or on commission, other than for the Ministry of Food (h)				345					491	20					
Total		7,483		38,263			2,824	..	108,065	..					
Sales (or production) in other industries		1,298		2,819			430	..	5,662	..					
Principal products of this industry sold (or made) by establishments in the industry		6,185		35,443			2,394	25	102,403	40					

- (a) Included in the figures for refined vegetable and seed oils, and fish and marine animal oils, unclassified.  
 (b) Including a small amount of refined vegetable and seed oils, hydrogenated, other sorts.  
 (c) Included with the amounts charged for production of unrefined oils.  
 (d) Undecorticated only in 1951; a small amount of decorticated groundnut cake and meal is included with linseed and coconut cake and meal.  
 (e) As defined in S.R. & O. 1946, No. 1261.  
 (f) For the output of compound cake and meal and livestock mixtures by other than seed crushers, see the Grain Milling Industry (Volume 8, Industry A) and the Cattle, Dog and Poultry Foods Industry (Volume 9, Industry C).  
 (g) Including fatty acids in 1951.  
 (h) Amount charged.

## Sales of principal products of the industry by establishments classified to other industries

## Larger establishments in the United Kingdom

TABLE 6

	1954			Principal industries in which produced (a)
	Quantity	Value	Entries	
	Th. tons	£'000	Number	
Goods sold				
Refined oils				
Vegetable and seed oils				
Hydrogenated	5.0	1,240 (b)	7	2J, 8H, 8J, 9E
Other than hydrogenated				
Linseed oil, boiled and refined	5.7	510	50	2I, 2O
Other sorts	0.9	122	18	2E, 2J, 2O, 8J
	..	42		
Refined vegetable and seed oils and fish and marine animal oils, unclassified	22.1	2,503	7	9A
Fish and marine animal oils, refined and unrefined	3.5	220	13	2J, 2O, 9C
Oil seed cake and meal, unclassified and acid oils (excluding fatty acids)	21.9	1,025	5	9A, 9E
Goods made and work done on a commission basis for the Ministry of Food (c)	108.8	430	6	2J, 9A
Total	..	6,092	106	

- (a) The volume number and industry references given are to the industries shown in the list on the back of this report.  
 (b) Includes an amount of maize oil, unrefined.  
 (c) Amount charged.

Sales in the industry of other than principal products  
Larger establishments in the United Kingdom

TABLE 7

	1954	
	Quantity	Value
	Th. tons	£'000
Fish and marine animal liver oils	0.8	97
Chemical manufactures, compressed gases and chemical making machinery	..	157
Miscellaneous oils, fats and greases	31.4	4,390
Other sales and work done	..	404
Total		5,047

TABLE 8 - Total make of intermediate products  
Larger establishments in the United Kingdom

This table is not applicable to the industry.

## Purchases of materials and fuel, 1954: Larger establishments in the United Kingdom

TABLE 9

	Quantity	Cost
	Th. tons	£' 000
<b>Materials</b>		
<b>Seeds</b>		
Cotton	143.3	4,040
Other seeds	73.4	3,459
<b>Nuts and kernels</b>		
Copra	74.0	5,212
Groundnuts (arachide, pea or monkey nuts)		
Uncorticated	9.4	528
Decorticated	256.7	19,176
Palm kernels	268.6	13,279
Other nuts and kernels	23.9	1,538
<b>Imported oils, unrefined</b>		
Cotton seed oil	19.2	2,363
Palm oil	58.7	4,802
Soya bean oil	0.3	30
Other vegetable oils	73.9	6,156
Whale oil	96.5	7,526
Cod liver oil	1.2	125
Other imported oils	56.9	4,948
<b>Unrefined oils, home produced</b>		
Linseed oil	4.4	332
Other	64.6	7,619
<b>Molasses</b>	44.5	429
<b>Oilseed cake and meal</b>	163.9	5,225
<b>Maize, products and by-products</b>	79.8	2,118
<b>Wheat offals (pollards, bran and middlings)</b>	82.0	1,777
<b>Packing materials</b>		
Timber and containers made of timber	..	154
Paper, board and containers made of paper and board	..	370
Metal containers	..	257
Other packing materials	..	1,471
<b>Replacement parts for your own machinery, plant and vehicles and consumable tools bought as replacement</b>	..	572
<b>All other purchased materials</b>	..	10,298
<b>Fuel and electricity</b>		
Coal	201.9	755(a)
Coke	26.7	105(a)
<b>Liquid fuels (including creosote/pitch mixtures)</b>		
For use in internal combustion engines	Th.gal.	
Motor spirit (petrol) for use in road vehicles and derv. fuel	307.9	58
Other	27.7	2
For burning in furnaces, boilers, kilns, etc.	665.1	32
<b>Gas purchased</b>	Th.therms	
From Gas Boards	543.3	33
From other sources, including other departments of the same firms	..	-
<b>Electricity purchased</b>	Th.kWh.	
From Electricity Boards	152,800	698(a)
From other sources, including other departments of the same firms	..	..
<b>All other purchased fuel</b>		..
<b>Total cost</b>		105,485

(a) Includes a proportion of all other purchased fuel.  
(56102)

Average number of employees, and wages, salaries and superannuation payments  
Larger establishments in the United Kingdom (a)

TABLE 10

	1951	1954
	Number	Number
<b>Average number of employees</b>		
Operatives	7,405	6,705
Administrative, technical and clerical employees	2,017	2,184
<b>Total</b>	9,422	8,889
<b>Wages and salaries paid to</b>	£' 000	£' 000
Operatives	2,922	3,251
Administrative, technical and clerical employees	1,133	1,407
<b>Total</b>	4,056	4,658
<b>Wages and salaries per head</b>	£	£
Operatives	395	485
Administrative, technical and clerical employees	562	644
		£' 000
<b>Superannuation and other pension funds for employees and dependents (b)</b>		
Employers' contributions	..	199
<b>Employees covered</b>	..	Number 6,425
<b>Pension, etc. payments to former employees and dependents (b)</b>	..	£' 000 58

(a) The following persons, not included above, were also employed by larger establishments in this industry ('other workers' includes, for example, employees engaged in merchanting).

	United Kingdom	
	1951	1954
	Number	Number
<b>Canteen workers</b>		
Males	9	12
Females	180	174
<b>Total</b>	189	186
<b>Other workers</b>		
Males	173	107
Females	23	45
<b>Total</b>	196	152
<b>Total excluded employees</b>	385	338

(b) The figures given relate to larger establishments in Great Britain only.

Employment in a specified week (a)  
Larger establishments in the United Kingdom

TABLE 11

	1951			1954		
	Males	Females	Total	Males	Females	Total
<b>Working proprietors</b>	-	-	-	-	-	-
<b>Operatives</b>	6,903	448	7,351	6,199	490	6,689
<b>Administrative, technical and clerical employees</b>	1,472	584	2,056	1,581	657	2,238
<b>Total employees</b>	8,375	1,032	9,407	7,780	1,147	8,927

(a) Week ended September 22, 1951, or October 30, 1954.

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