

BOARD OF TRADE

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*The Report on the
Census of Production
for 1954*

Volume 2: Industry O

OILS AND GREASES



Presented by the Board of Trade to Parliament in pursuance of the
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The Report on the Census of Production for 1954

VOLUME 2 INDUSTRY O

OILS AND GREASES

THIS REPORT on the Oils and Greases Industry relates to establishments engaged wholly or mainly in blending mineral, animal or vegetable lubricating oils (except at refineries), in the production of cycle and motor oils, cart grease, etc., and of dripping, suet, tallow, premier jus, oleostearine and other animal (except marine animal) oils, fats and greases (except lard), and in the production and refining of fish liver oil.

This industry corresponds to minimum list heading 39(1) and (3) in the Standard Industrial Classification.

There were no larger establishments in Northern Ireland in the register for this industry.

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IMPORTANT NOTES and definitions appear on the next page. In interpreting the data in the tables, it is essential to bear these in mind.

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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.

Large 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	Wales
	1948	1951	1954	1954	1954
	£ million	£ million	£ million	£ million	£ million
Gross output (production)	36.8	55.9	63.6	2.10	0.34
Net output	10.1	13.3	21.8	0.64	0.14
Total stocks and work in progress					
At beginning of year	5.0	6.8	6.8	0.14	0.05
Change during year	+ 1.0	+ 2.1	+ 0.5	+ 0.01	+ 0.01
Capital expenditure less disposals (a)	0.7	2.2	1.2	0.08	0.01
Wages and salaries	4.3	5.3	6.6	0.27	0.06
Total employment (including working proprietors)	Thousands	Thousands	Thousands	Thousands	Thousands
	11.3	11.7	12.6	0.57	0.13

(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
FIRMS EMPLOYING ON AVERAGE MORE THAN 10 PERSONS				
Number of establishments	No.	171	178	174
Total value of sales and work done	£'000	31,294	48,078	56,059
Products on hand for sale	{ at beginning of year change during year	1,805	2,389	2,555
and work in progress		"	+ 327	+ 915
Gross output (production) (a)	"	30,952	48,993	56,335
Purchases of materials and fuel	"	22,905	36,763	35,544
Stocks of materials and fuel	{ at beginning of year change during year	2,401	3,559	3,479
		"	+ 516	+ 888
Cost of materials and fuel used	"	22,389	35,875	35,344
Payment for work done on materials given out	"	44	127	77
Payment for transport (b)	"	668	1,307	1,618
Net output	"	8,520	11,685	19,297
Average number of employees	{ operatives others	No.	5,850	6,559
		"	4,146 (c)	4,427
Total employment (d)	"	9,468	10,289	11,142
Net output per person employed (d)	£	900	1,136	1,732
Wages and salaries	{ of operatives of others	£'000	1,526	2,037
		"	2,098	2,631
Capital expenditure				
New building work (e)	"	154	610	175
Plant and machinery	{ acquisitions (e) disposals	"	267	1,045
		"	6	12
Vehicles	{ acquisitions (e) disposals	"	198	383
		"	50	72
FIRMS EMPLOYING ON AVERAGE 10 OR FEWER PERSONS				
Number of returns	No.	257	256 (f)	236
Total employment, including working proprietors	"	1,389	1,387 (f)	1,325

(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) 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.

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

(d) Including working proprietors.

(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.

OILS AND GREASES

Analysis by size, 1954

Larger establishments in the United Kingdom

TABLE 3

Average number employed (a)	Estab-lish-ments	Gross output	Net output	Employees		Wages and salaries		Capital expenditure (b)	Net output per person employed (a)
				Operatives	Others	Operatives	Others		
	Number	£'000	£'000	Number	Number	£'000	£'000	£'000	£
11 - 24(c)	62	5,243	1,334	668	428	304	271	112	1,213
25 - 49	55	8,432	2,322	1,146	697	490	438	203	1,258
50 - 99	31	10,109	3,029	1,351	846	556	575	179	1,379
100 - 199	16	10,769	3,461	1,246	1,048	568	695	285	1,509
200 - 299	5	4,728	1,246	647	482	265	370	123	1,104
400 - 749	5	17,054	7,905	1,501	1,076	541	760	218	3,068
Total	174	56,335	19,297	6,559	4,577	2,724	3,109	1,119	1,732

(a) Including working proprietors.

(b) Capital expenditure on new building work and on acquisition of plant, machinery and vehicles.

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

(d) Including a small number of establishments with fewer than 11 persons employed, particulars of which were included with those for larger establishments on a single return.

Analysis according to specialisation within the industry, 1954

Larger establishments in the United Kingdom

TABLE 4

	Unit	Specialist producers of		Remainder of the industry	Total
		Lubricating oils and greases	Animal oils and greases		
Number of establishments	No.	100	52	22	174
Total value of sales and work done	£'000	39,204	8,857	7,998	56,059
Sales of characteristic products	"	37,721	6,672		
Products on hand for sale	"	1,618	287	650	2,555
and work in progress	"	85	100	91	277
Gross output (production)	"	39,289	8,957	8,089	56,335
Purchases of materials and fuel	"	23,421	6,106	6,017	35,544
Stocks of materials	"	2,629	485	365	3,479
and fuel	"	170	13	17	200
Cost of materials and fuel used	"	23,251	6,093	6,000	35,344
Payment for work done on materials given out	"	21	210	243	77
Payment for transport	"	1,220			1,618
Net output	"	14,797	2,654	1,847	19,297
Average number of employees	No.	3,582	1,737	1,240	6,559
Total employment (a)	"	3,512	565	500	4,577
Net output per person employed (a)	"	7,097	2,305	1,740	11,142
Wages and salaries	£	2,085	1,151	1,061	1,732
Capital expenditure	£'000	1,552	663	509	2,724
New building work (b)	"	2,427	320	362	3,109
Plant and machinery	"	118	45	11	175
disposals	"	207	115	86	408
acquisitions (b)	"	5	2	9	16
disposals	"	431	85	19	536
acquisitions (b)	"	147	18	5	169

(a) Including working proprietors.

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

OILS AND GREASES

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		
	Quantity	Value	Quantity	Value	Entries
Lubricating oils (excluding greases) (a)	Th.gal.	£'000	Th.gal.	£'000	Number
Consisting solely of mineral oils (including white oils)	15,628 Th.tons 246.7	3,197 12,020	30,216 Th.tons 170.3	8,404 8,434	77
Consisting of mineral oils compounded with other oils	Th.gal. 9,693 Th.tons 104.3	2,417 5,400	Th.gal. 37,631 Th.tons 158.4	7,797 8,547	73
Lubricating greases					
Black grease	12.6	290	10.4	372	28
Other	27.6	1,669	28.7	1,615	58
Unclassified	Th.gal. 20,597 Th.tons 83.5	4,781 4,265	96.4	4,075	25
Total lubricating oils and greases	Th.gal. 45,918 Th.tons 474.6	10,394 23,643	Th.gal. 67,847 Th.tons 464.1	16,201 23,043	..
Animal (except marine animal) oils, fats and greases	Th.tons		Th.tons		
Tallow	15.1	1,575	34.2	2,292	112
Dripping	26.2	3,448	32.6	3,179	181
Suet and other edible fats not elsewhere specified	6.6	1,273	9.7	1,391	47
Other animal oils, fats and greases (except lard) (b)					
Unrefined	17.7	1,591	28.0	1,713	99
Refined	7.2	804	24.6	2,912	44
Unclassified	2.2 ..	122 18	-	-	-
Total animal oils, fats and greases (except lard)	75.0 ..	8,812 18	129.1	11,487	..
Fish and marine animal oil, refined	Th.tons		Th.tons		
Cod and other fish liver oil					
Medicinal	5.3	1,311	3.8	926	..
Other, including veterinary	13.9	2,081	19.7	2,204	12
Other oils, mixed or not, including colloidal oils used for lubricating purposes (c)	24.1 ..	1,889 804	38.9 ..	2,799 601	46
Raw (including degreased) bones and bone pieces	14.6	270	20.3	400	20
Waste products, including greases	..	185	..	204	27
Work done for the Ministry of Food on material owned by the Ministry (d)		105		113	9
Work done for the trade or on commission (d)		64		290	11
Total		49,577		58,268	..
Sales in other industries (see Table 6)		5,178		6,489	..
Principal products of this industry sold by establishments in the industry		44,400		51,779	151

(a) Excluding output of refineries, for which see the Mineral Oil Refining Industry (Volume 2, Industry N).

(b) For lard, see the Bacon Curing and Sausage Industry (Volume 8, Industry D).

(c) Excluding mineral oils, fish and marine animal oils other than refined fish liver oils, vegetable and seed oils.

(d) Amount charged.

OILS AND GREASES

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	
Lubricating oils (excluding greases)	Th.gal.	£'000	Number	2C, 2E, 2I, 2J
	433	92	11	
Lubricating greases	Th.tons		..	2I, 2J
	0.6	36	..	
Unclassified oils and greases	..	283	16	2I, 2J, 2K, 3L
Total lubricating oils and greases	..	490	..	
Animal (except marine animal) oils, fats and greases	Th.tons			
Tallow	11.0	701	62	2C, 2Q, 8D, 9C
Dripping, suet and other edible fats not elsewhere specified	13.7	1,736	193	2J, 2Q, 8D, 9A
Other animal oils, fats and greases (except lard)				
Unrefined (b)	20.5	1,099	80	2C, 2Q, 6C, 9C
Refined	6.6	491	14	2E, 2I, 2P, 2Q
Total animal oils, fats and greases (except lard)	51.8	4,028	..	
Unclassified cod and other fish liver oils	0.8	97	..	2P
Other oils, mixed or not, including colloidal oils used for lubricating purposes	21.5	1,228	26	2J, 2P, 3I, 6D
	..	646 (c)	..	
Total		6,489	..	

(a) The volume number and industry references given are to the industries shown in the list at the back of this report.

(b) Including raw bones (including degreased), hollow bones and bone pieces.

(c) Including amount charged for work done for the Ministry of Food.

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

TABLE 7

	1954	
	Quantity	Value
Fish and marine animal oils other than refined fish liver oils	Th.tons	£'000
Vegetable and seed oils (other than essential) refined	1.6	108
Feeding stuffs for animals, poultry, etc., (except dog foods)	3.7	339
Fertilisers prepared or manufactured	32.7	1,462
Manufactured fertilisers of meat meal, meat and bone meal, bone meal, steamed bone flour and meal, and hoof and horn meal	17.5	525
Other sorts	0.8	35
Soap for household and industrial purposes	..	103
Chemical manufactures	..	466
Bladders, casings and sausage skins	..	85
Tripe, dressed	..	24
Disinfectants and antiseptics	Th.cwt.	
	35	28
Gelatine, glue and size (animal)	Th.tons	
Other goods	0.4	33
	..	1,074
Total		4,280

OILS AND GREASES

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.gal.	£'000
Materials	Th.gal.	£'000
Oils, fats and greases		
Petroleum	56,969	5,857
Lubricating oils and greases	Th.tons	
Whale oil	280.6	6,417
Sperm oil	..	4,413
Fish oil	2.1	138
Tallow	1.2	98
Raw fats	12.4	1,067
Vegetable seed oils	14.3	1,110
Other oils, fats and greases	54.9	2,136
Bones	8.8	944
Packing materials	61.0	3,906
Of metal	78.9	801
Of timber and containers made of timber	..	94
Other	..	2,958
Replacement parts for firms own plant, machinery and vehicles and consumable tools bought as replacements	..	79
All other purchased materials	..	485
Fuel and electricity	Th.tons	
Coal	82.7	327
Coke	3.4	18
Liquid fuel (including creosote/pitch mixtures)	Th.gal.	
For use in internal combustion engines		
Motor spirit (petrol) for use in road vehicles and derv. fuel	1,785	359
Other	165	5
For burning in furnaces, boilers, kilns, etc.	5,229	188
Gas purchased	Th.therms	
From Gas Boards		
From other sources, including other departments of the same firms	516	28
Electricity purchased	Th.kWh.	
From Electricity Boards	21,325	135
From other sources, including other departments of the same firms	154	1
All other purchased fuel		23
Total cost		35,544

OILS AND GREASES

Average number of employees and wages, salaries
and superannuation payments (a)

Larger establishments in the United Kingdom

TABLE 10

	1951		1954	
	Number	Number	Number	Number
Average number of employees				
Operatives	5,850		6,559	
Administrative, technical and clerical employees	4,427		4,577	
Total	10,277		11,136	
	£'000		£'000	
Wages and salaries paid to				
Operatives	2,037		2,724	
Administrative, technical and clerical employees	2,631		3,109	
Total	4,668		5,833	
	£		£	
Wages and salaries per head				
Operatives	348		415	
Administrative, technical and clerical employees	594		679	
Superannuation and other pension funds for employees and dependents (b)			£'000	
Employers' contributions	..		246	
			Number	
Employees covered	..		4,532	
			£'000	
Pension, etc. payments to former employees and dependents (b)	..		60	

(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):

	1951		1954	
	Number	Number	Number	Number
Canteen workers				
Male	5		6	
Female	114		104	
Total	119		110	
Other workers				
Male	1,036		773	
Female	156		140	
Total	1,192		913	
Total excluded employees	1,311		1,023	

(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
	Number					
Working proprietors	12	-	12	6	-	6
Operatives	4,916	1,120	6,036	5,507	1,413	6,920
Administrative, technical and clerical employees	3,047	1,496	4,543	3,016	1,593	4,609
Total employees	7,963	2,616	10,579	8,523	3,006	11,529

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

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