

BOARD OF TRADE

# FINAL REPORT on the CENSUS OF PRODUCTION FOR 1948

Volume 2

Trade N

MINERAL 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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1953

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In interpreting the data in the following tables, it is essential to bear in mind not only the qualifications mentioned in this report but also the general explanations and qualifications contained in the separate booklet published in this series by H.M. Stationery Office entitled "Final Reports of the Census of Production for 1948: Introductory Notes", price 2s Od. NET

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\* Not applicable to this trade

### MINERAL OIL REFINING TRADE

THIS REPORT on the Mineral Oil Refining Trade relates to establishments engaged wholly or mainly in the refining and distillation of petroleum and shale oil, the hydrogenation of creosote and mineral oils, and the production of medicinal paraffin, paraffin wax, petroleum jelly, etc.

The figures for 1948 have been compiled from returns made to the Ministry of Fuel and Power.

This trade corresponds to minimum list heading 36 in the Standard Industrial Classification.

Any establishments in Northern Ireland are excluded in 1948; no production was recorded there in this trade for 1935.

DS 42526/1

### Summary

### Larger establishments

TABLE I

Gross output (production) Cost of materials and fuel used (see Table 13)	£1000	£'000
	49 400	
Cost of materials and fuel used (see Table 17)	42,496	7,769
ose of materials and ract asea (see Table 10)	34,978	1
Customs and Excise duty (see Table 8)	341	4,731
Net output	7, 178	3,038
Vages and salaries of persons employed	2,953	
average number of persons employed	No. 7,773(a)	No. 3,387
Net output per person employed	£ 923	£ 897
Stocks at end of year	£' 000	£'000
Finished products and unfinished materials	3,022	••
Materials and fuel	3,228	
Number of establishments	No. 16	No. 20

The value of gross output is derived in the following way:-

	1948	1935
	£1000	£1000
Output of firms in this trade		
Total value of sales (1948) or production (1935)		
Principal products (see Table 8)	38, 573	7,611
Other output (see Table 10)	1,979	158
Adjustment for changes in stocks (see Table 14)	+ 1,945	
Gross output (production)	42,496	7,769

MINERAL OIL REFINING

2/N/3

### Summary, 1948

### Small firms in Great Britain

TABLE 2

Number of returns	(a)
Average number of persons employed	00019
Males	550 9 9
Females	200,01_0
Total	9

(a) Owing to the risk of disclosure of information relating to individual firms this figure cannot be given.

### Estimated average employment, 1948

### All firms in Great Britain

TABLE 3

As returned by firms	F. 14701
Employing on average more than ten persons (a)	7,773
Employing on average ten persons or less (b)	9
	7,782
Estimated average employment in firms not making satisfactory returns	_
Average employment in all firms	7,782

<sup>(</sup>a) See Tables 1 and 15. (h) See Table 2.

### Analysis by size, 1948 Larger establishments in Great Britain

TABLE 4

Average number	Establish-	Gross	Net output	Persons employed	Bablistini 22 Piasi ole anga	Remunerati	on	Net output
employed	ments	output			Wages	Salaries	Total	per person employed
tel trades	No.	£!000	21000	No.	£'000	£,000	£'000	11 10 11 £ 1 10 1
11-199	7	9,248	1,478	574	159	60	219	2,575
200-499	3	6, 249	731	1,058	253	117	370	691
500 and over	6	26,998	4,968	6, 141	1,753	611	2,364	809
Total	16	42,496	7, 178	7,773	2,165	788	2, 953	923

Sales (or production) of the principal products of the trade, including sales (or production) of these products by establishments classified to other trades

### Analysis by standard region, 1948 Larger establishments in Great Britain

TABLE 5

Fetablich	-Gross output	Net output		Darcone	4 318 AR			
ments		Value	Percentage of total	employed	Wages	Salaries	Total	
No.	£1 000	£' 000		No.	£' 000	£' 000	£' 000	
3	1,092	329	4.6	433	94	54	148	
5	16,992	4,301	59.9	2, 617	736	300	1,036	
				Fath				
8	24,413	2, 547	35.5	4,723	1,335	434	1,769	
16	42,496	7,178	100.0	7,773	2,165	788	2, 953	
I	No. 3 5	No. £'000 3 1,092 5 16,992 8 24,413	Separate   Separate	Establish output Value Percentage of total  No. £'000 £'000  3 1,092 329 4.6 5 16,992 4,301 59.9  8 24,413 2,547 35.5	No.   \$\omega\$   Output   Value   Percentage of total   No.   \$\omega\$   000   \$\omega\$   000   No.   3   1,092   329   4.6   433   5   16,992   4,301   59.9   2,617     8   24,413   2,547   35.5   4,723	Establishments         Gross output         Value         Percentage of total         Persons employed         Wages           No.         £'000         £'000         No.         £'000           3         1,092         329         4.6         433         94           5         16,992         4,301         59.9         2,617         736           8         24,413         2,547         35.5         4,723         1,335	Establish ments         Gross output         Value         Percentage of total         Persons employed         Wages         Salaries           No.         £'000         £'000         No.         £'000         £'000           3         1,092         329         4.6         433         94         54           5         16,992         4,301         59.9         2,617         736         300           8         24,413         2,547         35.5         4,723         1,335         434	

### TABLE 6 - Analysis according to specialisation within the trade, 1948 Larger establishments in Great Britain

No specialisation within this trade was distinguished.

### Total make of certain petroleum products (a) Larger establishments

### TABLE 7

INDEC /								
Returned in this trade								
	194	.8	1935					
	Quantity	Entries	Quant	city				
Aviation and motor spirit	Th. tons	No. 13	Th. galls. 161, 155(c)(d)	Th. tons (b) 520				
Industrial and white spirits	87	6	20, 250	72				
Kerosine	121	8	35, 375	128				
Gas/diesel oils (including marine diesel oil)	890	14	214, 140(e)(f)	860				
Fuel oil	1,714	14	214, 140(e)(1)	800				
Lubricating oil (all grades)	368	9	25,066	100				
Bitumen	533	9	(g)	••				

- (a) There is duplication of output in this table to the extent that production which takes place in stages in more than one refinery is included at each stage.
   (b) Calculated from the approximate weight equivalents of units of measure in Vol. 1 of the appropriate Annual Statement of the Trade of the United Kingdom with British Countries and Foreign Countries.

- Including hydrogenated coal spirit.
  Including 22,322,000 gallons (approximately 72,000 tons) returned on schedules for other trades.
  Including 805,000 gallons (approximately 3,000 tons) returned on schedules for other trades.
  Recorded as:-

Th. galls. 46,066 Gas oil Fuel oil 168,074

(g) Not recorded.

Larger establishments

1935 Production	8401	1948 (a) Sales	)	States	1935 Production	Acade
outsv. vilings colvins	Quantity	Value	Entries	Quant	lity	Value
- 009 19	Th. tons	£'000	No.	Th.galls.	Th. tons (b)	2,000
Aviation and motor spirit	601	7,133	13	145,385	469	4,374(c)
Industrial and white spirits	73	1,134	6	14,441	52	762
Kerosine	110	1,090	8	32,037	116	482
Gas/diesel oils (including	ne supr retia	clers		35,28	1	ivi
marine diesel oil)	822	7,844	14	175,484	704	1,821(d)
Fuel oil	1,212	7,639	11			
Lubricating oils (all grades)(e)	359	7,988	9	11,871	47	298
Bi tumen	533 Th.cwts.	4, 193	9	12 12 22 22		C. V
Mineral jelly	27	76	25	18		
Other finished petroleum products and unfinished	Tow reselv	1		}	••	976
materials	a kedike se	1,553				
Petroleum refining on commission	o ebsit e	12 ni -( n	or preductio	aelaż 27		
Panencimena, repairers, bulgo			Tales,			
Total	V.2	38,649	targes esta		The Park Co	8,713
Less sales (or production) in other trades (see					TABLE (O	6.8
Table 9)	8181	77	••			1,102
Total principal products	E5 00012			4.75		14.7
of this trade sold or made by establishments	2/2 1			1 102 39		
in the trade	0. · · · ·	38,573	16		des space	7, 611
(a) The golling reluce cheem in				0 (1		

- (a) The selling values shown in this table are inclusive of duty if the products are sold duty paid, and exclusive of duty if the products are sold in bond or exported. The total amount of duty included in the net selling values is \$341,000; similar information is not available for 1935.
- Estimated tonnage. Including hydrogenated coal spirit.
- Recorded as:-

TABLE 8

Th. galls. 2'000 Gas oil 44,559 652 Fuel oil 130,925 1,169

(e) Output of establishments classified to this trade only, for the output of other establishments see the Oils and Greases Trade (Volume 2, Trade 0).

### MINERAL OIL REFINING

### Sales (or production) of principal products of the trade by establishments classified to other trades

### Larger establishments

### TABLE 9

	190188	1948 Sales	Magaz	1935 Product	
witer grismand automa	Quantity	Value	Entries	Quantity	Value
Mineral jelly All other principal products of the trade	Th.cwts.	£' 000 76	No. 25	e sittem one	£' 000
Total		77	•• 2010	Hours (tuch	1,102

### Sales (or production) in the trade of other than principal products

### Larger establishments

TABLE 10

		1948 Sales	1935 Production
		£'000	£1 000
Goods sold	200	1,818	158
Work done		161(a)	=0873
Total	elebio einnië	1,979	158

(a) Amount charged.

## Analysis of sales, 1948 Larger establishments in Great Britain

### TABLE II

IN OLE					
benteder.				Sales	Percentage of total
	- (a) enop with	(0) 2003 (0)			sales
990 so	128	(B) use oss	38619	£! 000	Aviletion and motor s
Sales (or transfers) t	to other organisat	ions under the sa	ame control		
Refineries, other th		by this return,	and separate	eo enay a	Inquarrial and white
blending establishm	nents			383	0.9
Export sales organis wholesale or selling			), other	35, 283	87.4
Total sales (or tr	ransfers) to other	organisations w	nder the	entrem enthu	oni) ario iesalmaso .
same control				35,666	88.3
Sales to independent t	ouyers			85	The Text
Bunkers				378	0.9
Exports invoiced din agents of foreign in			s and	161	0.4
Wholesalers, merchan	its and agents for	resale		1,948	4.8
His Majesty's Govern productive establis		thorities (other	than	1,272	3.1
Manufacturers, repair and transport and o			lities,	473	1.2
Other consumers (inc N.A.A.F.I., etc.)	r consideration	institutions, fa		366	0.9
Unclassified		miljas ons "ir ei		128	0.3
Total sales to inc				4,725	11.7
Total				40,391	100.0
		CONTRACTOR OF THE PARTY OF THE			

### Production, exports and imports of certain principal products (a)

TABLE 12

				\$14 TO VERY 11 TO
Percentage.		Production (b)	Exports	Retained imports
		Th.tons(c)	Th. tons (c)	Th. tons (c)
Aviation and motor spirit	\[ \begin{pmatrix} 1948 \\ 1935 \end{pmatrix}	641 (d) 520	21 257	3, 899 3, 879
Industrial and white spirits	{1948 {1935	87 72	2 6	105 57
Kerosine	\$1948 1935	121 128	2 30	1,480 679
Gas/diesel oils (including marine diesel oil)	1948	890	16	2, 087
Fuel oil	1948	1,714	23	5, 113
Total gas/diesel oils (including marine diesel oil) and fuel oil	[1948 [1935	2,605 860	39 161	7,200 3,035
Lubricating oil (all grades) (e) Mineral jelly	\[ \begin{pmatrix} 1948 \\ 1935 \\ 1948 \end{pmatrix}	674 350 Th.cwts. 27(f)	115 51 Th.cwts. 2	347 389 Th.cwts. 194

- (a) Figures of sales (or production) refer only to larger establishments in the relevant years. All recorded exports from and imports into the United Kingdom are given in the table. The figures, therefore, are not strictly comparable.
- (b) Including sales (or production) by establishments classified to other trades.
- (c) Estimated tonnage of production in 1935 (see Table 7), and estimated tonnage of exports and retained imports in both years.
- (d) Excluding hydrogenated coal spirit.
- (e) The production figures include the output of lubricating oils consisting solely of mineral oils (including white oils), 306,000 tons (partly estimated) in 1948 and 250,000 tons (partly estimated) in 1935, by establishments classified to other trades (see the Oils and Greases Trade (Volume 2, Trade O)). The oversea trade figures relate to refined petroleum lubricating oil.
- (f) Sales.

# Usage of purchased materials and fuel Larger establishments

TABLE 13

TABLE 13						A STATE OF THE STA
8891	6	193	194	8	in the second	1935
Quantity Cost	1800	- Continue	Quantity	Cost	Quantity	Cost
TO. Salley   E' 600	00013	.BLISS.ST.	Th. tons	£'000	sonoope vator	£1000
Materials				Pault syttes	bas (Morsea)	Dintes total
Crude and process oils				494	seldinev bu	bream best
Imported, full crude and	1 topped		4,214	27,538	T sawed sec	No tel becu
Indigenous; and distillant feedstocks	ates and of	ther	352	4, 102	antholom) 1	macilo femo.
Petroleum products and cre- blending	osote used	for	39	789	o esto bns.	Des parchased se and tabe
Tetra ethyl lead fluid		4 *	Th.galls.	85	Leuri beaarts	marsento fia
Other chemicals			Th. tons	307		3800
Acids			38	240	BOLLKA DOS	20220
Alkalis			12	85	O An to went	Larry ent (d) .
Earths			9	203	The sho at	Manage 30% (a)
Other			10	228	}	4,412(a)
Water				. 56		
Packing materials						
New oil drums of a capac	ity .		Thous.		5.00	
Not exceeding 10 gallo	ns		270	40		
Exceeding 10 gallons			163	. 162		
Other packing materials, materials for the manufa reconditioning of drums	facture and			85		
All other purchased materia			•	85		
Fuel and electricity	<b>a13</b>		Th. tons		Th. tons	
Coal			77.6	171	116.9	77
Coke			0.8 Th.B.T.U.	3	4.8 Th.B.T.U.	6
Electricity purchased and obtained from other works same ownership (b)	electricity, under the	7	(kW.hrs.)	210	(kW.hrs.)	31
DS 42526/1						

### TABLE 13 (contd.)

	19	48	193	5
deconstructeness and deconstructeness and	Quantity	Cost	Quantity	Cost
Fuel and electricity (contd.)	Th.galls.	£'000	Th. galls.	£'000
Motor spirit (petrol) and derv. fuel	089	300		- Veletasies
Used for road vehicles	81	7	alio sasoon	
Used for other power purposes	11	begg 1:	na ebuno fini	(c)
Other oil fuel (including creosote/pitch mixtures)	3,440	o 500 <b>73</b> , e	33,384	205(d)
Gas purchased and gas obtained from other works under the same ownership	Th. therms	500X 90 2 0	so bus knousers	Petroleum
All other purchased fuel	••	70	}	(c)
Total		34, 978		
Customs and Excise duty	G. Kra	341	icals	4, 731

(a) Including duty paid, less drawbacks. The figure also includes fuel not specified separately.
(b) The total quantity of electricity consumed in 1948 was 85,607,000 B.T. units including 28,395,000 generated in the same works.

(c) Not recorded separately.

(d) Described as "Heavy fuel oil".

### Stocks of finished products and unfinished materials and stocks of materials and fuel, 1948

### Larger establishments in Great Britain

TABLE 14

				-		या व्यवसम्ब
Lesot	Administrative, technical	nedion	493418	At	beginning of year'	At end of year
Products	3881 1986	1000 A	10 - 10 S.	T.	£'000	£1000
Finished products					584	2,167
Unfinished materia	ls		47.		494	855
	inished products and shed materials	887,8	220	,G	1,077	3, 022
Materials and fuel			87			
Crude and process	oils				1,194	2,496
All other material	s and fuel		48		507	733
Total m	aterials and fuel	1 0 T 30 S 1 E = =	ober	15.2 K	1,701	3, 228

#### Employment and remuneration (a)

#### Larger establishments

TABLE 15

TRUEL 13						
		e number ratives	Administrative and clerical e			otal
	1948	1935	1948	1935	1948	1935
Males						
Under 18	147	100	35	26	182	126
All ages	5,814	2,786	1,447	524	7,261	3,310
Females			ducts and	intained pro	I feder	ardias.
Under 18	7	1	53	1	- 60	2
All ages	76	17	436	60	512	a1s177
Total OCEAN AND AND AND AND AND AND AND AND AND A				Tarto	t process	ns ebumb
Under 18	154	101	88	27	242	128
All ages	5,890	2,803	1,883(c)	584	7,773 (c)(d)(e)	3, 387
Total remuneration	£'000 2,165	1948 11118	£'000 788	mist them	£'000 2,953	

(a) Excluded employees. The following numbers were employed at establishments in this trade but are not included in the table or in any other report (e.g., employees in a separate selling or transport organisation for which separate accounts are kept):-

Canteen workers
Other workers

64 males 2.840 males 203 females

371 females

- (b) Number at September 25, 1948, and October 12, 1935.
- (c) No working proprietors were recorded in 1948.
- (d) The employers' share of contributions to all National Insurance Schemes payable during the year in respect of these workers amounted to £70,000.
- (e) The following persons (included in this total) were employed on special work by establishments employing 100 or more persons:-

	Operatives	Administrative, technical and clerical employees
Transport of goods outside the premises	24	
Maintenance and repair of firms' buildings, but not plant	17	
Research work not directly connected with current production however charged	5	26

# Wages and salaries paid, 1948 (a)(b) Larger establishments in Great Britain

TABLE 16

	Amount	Percentage of annual remuneration paid in					
	paid	First quarter	Second quarter	Third quarter	Fourth quarter	Year	
Wages and salaries of	£'000	7/3/2/2	A CONTRACTOR OF THE CONTRACTOR	· vrenidas	n bue sitely		
Operatives	2,165	22.9	24.9	25.8	26.4	100.0	
Administrative, technical and clerical employees	788	23.5	24.5	25.8	26.2	100.0	
Total	2,953	23.0	24.8	25.8	26.4	160.0	

(a) Including bonus and commission payments.

(b) All larger establishments in this trade made returns for the year ended December 31, 1948.

# TABLE 17 - Payments for work done on materials given out, 1948 Larger establishments in Great Britain

This table is not applicable to the trade.

# Payments for certain services, 1948 Larger establishments in Great Britain

### TABLE 18

de of treeholds sold	Amount paid
sive of other properties religiouspec	£'000
Repair and maintenance of buildings, plant, machinery and vehicles	160
Hire of plant, machinery and vehicles	55
Advertising and market research	13
Payments made for research work	en alle Rujpètera (e)
To research associations	3
To universities, institutions, academic bodies and similar agencies;	rgscorg succurses (c)
and to other commercial concerns	9
Postage, telephone, telegrams and cables	22
Commercial insurance premiums	80
Rates (excluding water rates) payable in the year	38

### Plant, machinery and vehicles acquired and disposed of, 1948

Larger establishments in Great Britain

TABLE 19

al also interespose Lemma	Acq	Acquisitions				
Estroit Soutet	New	Second-hand	Disposals			
200 - 200 -	£'000	£'000	£1000			
Plant and machinery	3, 478	1,525	20			
Vehicles	51	29	1			
Total	3,529	1, 553	21			

Capital expenditure on building work and changes in occupation of buildings and land, 1948

Larger establishments in Great Britain

	drie hable is not applicable on the trade.	£1000	£!00
1.	Capital expenditure on building work (a)		85
2.	Existing buildings and land acquired (b)		68
	Total of headings 1 and 2		1,53
3.	Existing buildings and land relinquished (c)		BI BIEAT
	(1) Selling value of freeholds sold	4	
	(11) Estimated value of other properties relinquished		
	proportion restriction	Contract to the second	
	Total of heading 3	Bonsheiniam my Paradia	
4.	or subdings, plant, washings and wenters a services 183	maintenance maintenance mail machine	1,52
4. (a)	Total of heading 3	somensimism by stablic entrosm the	inanin Ig 10
	Total of heading 3  Headings 1 and 2 less heading 3  Excluding site value which, where appropriate, is included in heading 2.	by establish sizione and sizio	1,52
(a)	Total of heading 3  Headings 1 and 2 less heading 3  Excluding site value which, where appropriate, is included in heading 2.  The figures do not reflect changes in ownership of previously occupied land at Including property destroyed or abandoned.	nd buildings	1,52
(a) (b)	Total of heading 3  Headings 1 and 2 less heading 3  Excluding site value which, where appropriate, is included in heading 2.  The figures do not reflect changes in ownership of previously occupied land and including property destroyed or abandoned.	nd buildings	1,52
(a) (b)	Total of heading 3  Headings 1 and 2 less heading 3  Excluding site value which, where appropriate, is included in heading 2.  The figures do not reflect changes in ownership of previously occupied land and including property destroyed or abandoned.	nd buildings	1,52

1948 Note - Owing to the risk of disclosure of information relating to individual firms separate particulars for larger establishments in England, Wales and Scotland cannot

TABLE 21 - Summary: Larger establishments

See Table 1.

TABLE 22 - Summary: Small firms

See Table 2. There were no small firms in Wales or Scotland in the register for this trade.

Sales in the trade Larger establishments

### TABLE 23

be given.

	Great	Britain
	Quantity	Value
	Th. tons	£1000
Principal products		
Aviation and motor spirit	601	7,133
Industrial and white spirits	73	1,134
Kerosine	110	1,090
Gas/diesel oils (including marine diesel oil)	822	7,844
Fuel oil	1,212	7,639
Lubricating oils (all grades)	359	7, 988
Bitumen	533	4,193
Other finished petroleum products and unfinished		
materials	••	1,552
Total principal products		38,573
Other output		
Goods sold		1,818
Work done		161(a)
	•	
Total		40,552

(a) Amount charged.

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TABLE 24 - Purchased materials and fuel: Larger establishments

commit imposible of antivier told See Table 13. See to an Armany of intwo - start commit to be a formation of the committee o

TABLE 25 - Employment and remuneration: Larger establishments

See Table 15. The A 13 118 AT

Monthly index of employment of operatives: Larger establishments

(average employment in 1948 = 100)

TABLE 26

Month	Monthly index (a)	Manuals	Monthly index (a)
Honon	Great Britain	Mon th	Great Britain
1948	Contact comment to recommend	1948	
January	93.8	August	101.9
February	94.8	September	102.0
March automa	97.5	October	102.5
April	97.5	November	104.0
May	99.0	December	104.9
June 100	100.7	Percentage employ- ment in this trade	iga radom bne noidsiva (
July	101.3	covered by the index	100.0

<sup>(</sup>a) The index numbers are calculated from the number of operatives employed in one week in each month.

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