

## FINAL REPORT

## on the

 CENSUS OF PRODUCTION FOR 1948Volume 2
Trade E

## CHEMICALS (GENERAL)

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).

LONDON : HER MAJESTY'S STATIONERY OFFICE


|  | 1948 (a) | 1946 (b) | 1937 (b) | 1935 (b) |
| :---: | :---: | :---: | :---: | :---: |
| Gross output (production) | £'000 | £'000 | §'000 | £ 000 |
|  | 187, 245 | 122,380 | 44,295 | 36,650 |
| Cost of materials and fuel used | 111,948 | 69, 190 | 21,867 | 17,443 |
| Payment for work done on materials given out Net output | 461 | 534 | 7 | 7 |
|  | 74,836 | 52,656 | 22,421 | 19, 200 |
| Wages and salarles of persons employed | 37, 950 | 24,226 | .. | - .. |
|  | No. | No. | No. | No. |
| Average number of persons employed (c) | 100, 537 (d) | 83,306 | 50,851 | 46,134 - |
|  | \& | \& | \& |  |
| Net output per person employed (c) | 744 | 632 | 441 | 416 |
|  | £ 1000 | §'000 | §'000 | § 000 |
| stocks at end of year |  |  |  |  |
| Finished products and work in progress | 13, 196 | 8,447 | . | . |
| Materials and fuel | 24,471 | 12,189 | .. | . |
|  | No. | No. | No. | No. |
| Number of estabilishments | 510 | . | .. | 340 |

(a) Great Britain only.
(b) United K1ngdo.
(c) Excluding outworkers.
(d) For an estimate of the total number of persons employed in this trade see Table 3.

The values of gross output and of materials and fuel used are derived in the following way:-
way: -

Output of firms in this trade
Total value of sales (1948 and 1946)
or product1on (19.j7 and 1935)
Principal products (see Table 8)
Other output (see Table 10)
Adjustment for changes in stocks and work in
progress
Less payment for transport by other firms
Gross output (production)
Materials and fuel used by firms in this trade
Purchases (see Table 13)
Ad justment for changes in stocks Materials and fuel used

table 4

## Summary, 1948

Small firms in Great Britain
TABLE 2

| Number of returns | 235 |
| :--- | ---: |
| Average number of persons employed (a) |  |
| Males | 1,043 |
| Females | 337 |
| Total | 1,380 |

(a) Including working proprietors.

Estimated average employment, 1948
All firms in Great Britain

| As returned by firms <br> Employing on average more than ten persons (a) Employing on average ten persons or less (b) | $\begin{array}{r} 100,537 \\ 1,380 \end{array}$ |
| :---: | :---: |
|  | 101,917 |
| Estimated average employment in firms not making sat1sfactory returns | 447 |
| Estimated average employment in all firms | 102, 364 |
| (a) See Tables 1 and 15. <br> (b) See Table 2. |  |
| Anaiysis by size, 1948 |  |

Larger establishments in Great Britain

| $\begin{aligned} & \text { Average } \\ & \text { number } \\ & \text { employed } \end{aligned}$ | $\begin{aligned} & \text { Establish- } \\ & \text { ments } \end{aligned}$ | Gross output | Net | Persons employed | Remuneration |  |  | Net output per person employed |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | Wages | Salarles | Total |  |
|  | No. | §'000 | £ 1000 | No. | \& 1000 | § 1000 | §, 000 |  |
| 11-24 | 111 | 4,758 | 1,867 | 1,943 | 429 | 294 | 723 | 961 |
| 25-49 | 144 | 11,949 | 4,497 | 5,131 | 1,138 | 762 | 1,900 | 877 |
| 50-99 | 94 | 14,353 | 5,080 | 6,389 | 1,480 | 827 | 2,307 | 795 |
| 100-199 | 59 | 18,345 | 6,932 | 7,951 | 1,806 | 1,083 | 2,889 | 872 |
| 200-299 | 29 | 14,984 | 4,900 | 6,970 | 1,584 | 843 | 2,427 | 703 |
| 300-399 | 16 | 11,278 | 3,968 | 5,472 | 1,430 | 662 | 2,092 | 725 |
| 400-499 | 10 | 8,505 | 3,488 | 4,448 | 1,126 | 529 | 1,655 | 784 |
| 500-749 | 21 | 22,637 | 8,377 | 12,556 | 3,179 | 1,461 | 4,640 | 667 |
| 750-999 | 12 | 18,157 | 7,393 | 10,059 | 2,445 | 1,384 | 3,829 | 735 |
| 1,000-1,499 | 6 | 9,773 | 3,938 | 7,284 | 1,913 | 724 | 2,637 | 541 |
| 1,500 and over | 8 | 52,507 | 24,396 | 32,334 | 8,523 | 4,328 | 12,851 | 754 |
| Total | 510 | 187, 245 | 74,836 | 100,537 | 25,053 | 12,897 | 37,950 | 744 |

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TABLE 5

| Region | Establish-ments | Gross output | Net output |  | Pers ons employed | Remuneration |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | value | Percentage of total |  | Wages | Salaries | Total |
|  | No. | §'000 | £ 1000 |  | No. | §'000 | §'000 | §'000 |
| England Northern | 27 | 31, 893 | 13,887 | 18.6 | 20,813 | 5,413 | 2,673 | 8,086 |
| East and West Ridings of Yorkshire | 44 | 7,343 | 2,913 | 3.9 | 3,923 | 915 | 472 | 1,388 |
| North M1dland | 22 | 3,278 | 1,353 | 1.8 | 1,654 | 398 | 210 | 609 |
| Eastern | 29 | 7,818 | 3,107 | 4.2 | 4,164 | 1,029 | 553 | 1,581 |
| London and South Eastern | 107 | 30,392 | 10,689 | 14.3 | 14,849 | 3,420 | 1,913 | 5,334 |
| Southern | 13 | 1,727 | 653 | 0.9 | 1,254 | 261 | 141 | 402 |
| South Western | 19 | 4,301 | 2,115 | 2.8 | 2,680 | 717 | 240 | 956 |
| M1d land | 48 | 15,379 | 6,645 | 8.9 | 8,482 | 1,940 | 1,283 | 3,223 |
| North Western | 131 | 66,071 | 26,148 | 34.9 | 30,925 | 7,909 | 4,236 | 12,145 |
| Total England | 440 | 168,201 | 67,511 | 90.2 | 88,744 | 22,003 | 11, 721 | 33,724 |
| Wales | 20 | 11,070 | 4,053 | 5.4 | 6,071 | 1,619 | 654 | 2,273 |
| Scotland | 50 | 7,974 | 3,272 | 4.4 | 5,722 | 1,431 | 522 | 1,953 |
| Great Britain | 510 | 187,245 | 74,836 | 100.0 | 100,537 | 25,053 | 12,897 | 37,950 |

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

|  | $\begin{aligned} & \text { Establish- } \\ & \text { ments } \end{aligned}$ | Gross output | $\begin{aligned} & \text { Sales of } \\ & \text { charac- } \\ & \text { ter1stic } \\ & \text { products } \end{aligned}$ | Net output | Persons employed | Remuneration |  |  | Net output per person employed |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | Wages | Salaries | Total |  |
|  | No. | §'000 | § 1000 | §'000 | No. | £ 1000 | §'000 | §'000 |  |
| Specialist producers of |  |  |  |  |  |  |  |  |  |
| Plastic matertals | 48 | 25,489 | 23,618 | 10,466 | 14,599 | 3,260 | 2,325 | 5,583 | 717 |
| vitreous enamels and frits and ceramic glazes | 6 | 719 | 633 | 270 | 258 | 63 | 49 | 113 | 1,046 |
| Remainder of the trade | 456 | 161,037 |  | 64,100 | 85, 880 | 21,730 | 10,524 | 32,254 | 748 |
| Total | 510 | 187,245 |  | 74,836 | 100,537 | 25,053 | 12,897 | 37,950 | 744 |

Total make of intermediate products Larger establishments
TABLE 7


2/E/6
CHEMICALS AND ALLIED TRADES

## TABLE 7 (contd.)

TABLE 7 (contd.)
Chemical manufacture
(contd.) (contd.)
Aluminiun compounds (contd.)
Aluminium oxide
Anhydrous, but not including
abrasives
Hydrated
Ammonia liquor (1n terms of 880
Ammonia)
Amnonium carbonate and bicarbonate Barlum compounds Blanc fixe
Other sorts,
excluding metaytes, natural
baryter
bartum cartonate, bar 1 um carbona

Bleaching materials
Sodium perborate
Other sorts
Carbons, decolorising and
activated
Chloroform
Formaldehyde,
ormaluehyde,
including solu-
Incluaing solu-
tions (in terms of
40 per cent.
solution), and
solution, and
paraformaldehyde

| Returned in this trade |  |  |  | Returned in all trades |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1948 (a) |  | 1937 (b) | 1935 (b) | 1948 |  | 1937 (b) | 1935 (b) |
| Quant1ty | Entries | Quantity |  | Quantity | Entries | Quantity |  |
| Th. tons | No. | Th. tons | Th. tons | Th. tons | No. | Th. tons | Th. tons |
| 64.7 110.6 | $\cdots$ | , 63.9 | (e) | 64.7 110.6 | 6 | $\} \quad 63.9$ | (e) |
| 585.0 | 10 | 331.3 | 291.6 | 589.9 | 16 | 336.0 | 294.8 |
| 5.0 | 5 | 3.6 | 3.5 | 5.0 | 5 | 3.7 | 3.5 |
| (c) | . |  |  | 14.6 | 5 |  |  |
| (c) | -• | - $\begin{array}{r}51.7 \\ (\mathrm{~g})\end{array}$ | (g) 5 | 40.1 | 15 | , $\begin{array}{r}53.7 \\ (\mathrm{~g})\end{array}$ | $\begin{gathered} 56.5 \\ (\mathrm{~g}) \end{gathered}$ |
|  | - 13 | $\left\{\begin{array}{c} 129.7 \\ \text { Th. cwts. } \end{array}\right.$ | 112.9 ${ }^{\text {Th. cwts. }}$ |  | - 31 | $\left\{\begin{array}{l} 131.9 \\ \text { Th. cwts. } \end{array}\right.$ | Th. 113.6 |
| 153.9 (c) Th. ${ }_{\text {cons }}$ | . |  |  | $\begin{aligned} & 153.9 \\ & \text { Th. } 10.9 . \\ & \text { 3, 9.3.0. } \\ & \text { Th. tons } \end{aligned}$ | 8 13 | $\begin{array}{r} 199.5 \\ \mathrm{Th.} \mathrm{bs} . \\ \mathrm{Th} 0.6 \\ \mathrm{Th} . \text { tons } \end{array}$ | $\begin{gathered} 114.9 \\ \mathrm{Th} .1 \mathrm{bs} . \\ 753.7 \\ \mathrm{Th} . \end{gathered}$ |
| 65.6 | - | $\begin{array}{r} 14.1 \\ (\mathrm{~h}) \end{array}$ | (h) ${ }^{\text {(h) }}$ | 68.3 | 8 | $15.9$ (h) | $\begin{array}{r} 10.8 \\ \text { (h) } \end{array}$ |



|  | Returned in this trade |  |  |  | Returned in all trades |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1948(a) |  | 1937 (b) | 1935 (b) | 1948 (a) |  | 1937 (b) | 1935 (b) |
|  | Quant 1ty | Entries | Quantity |  | Quant1ty | Entries | Quantity |  |
| Chemical manufactures (contd.) <br> Potassium compounds (contd.) | Th. ewts. | No. | Th. cwts. | Th. ewts. | Th. ewts. | No. | Th. ewts. | Th. cwts. |
|  |  |  |  |  |  |  |  |  |
| Chloride (murlate) | $\begin{aligned} & 1.5 \\ & 0.7 \end{aligned}$ | $5$ |  |  | 1.5 | . |  |  |
| Chromate |  |  |  |  | 0.7 | 5 |  |  |
| Other sorts, not elsewhere specifled |  | 33 | 101.6 <br> (1) | 131.4 | $\begin{array}{r} 567.7 \\ 22.6 \end{array}$ | 46 |  | 211.2 |
| Rubber substitute (factice) | $501.5$ <br> (c) |  |  | (e) |  | . | (e) | (e) |
| Sodium compounds |  | . |  |  |  |  |  |  |
| B1carbonate, carbonate (including soda crystals and soda ash (on the basis of $58^{\circ}$ ) ) and caustic (in |  |  | Th. tons <br> 1,496.0 <br> Th. cwts. | Th. tons Th. $1,317.1$ |  | 37 | $\begin{aligned} & \mathrm{Th} . \text { tons } \\ & \text { 1, } 223.9 \\ & \mathrm{Th} . \text { cwts. } \end{aligned}$ | $\begin{aligned} & \text { Th. tons } \\ & 1,357.0 \\ & \text { Th. cwts. } \end{aligned}$ |
| Chromate | 6.5 | 6 | 162.0 | 126.0 | $225.6$ | 6 | 162.0 |  |
| Dichromate | 225.6 | 6 |  |  |  | 6 |  |  |
| Phosphates | 545.6 | $\cdots$ | 124.0 | 82.0 | 545.6 | 9 | 124.0 | 82.0 |
| Sulphate, other than B. P. and equivalent grades | Th. tons (c) | . |  | (e) | Th. tons <br> 124.1 | 26 | (e) | (e) |
| Cyanide, nitrate, nitrite, and silicate (water glass) in terms of solld glass | (c) | 9 | (e) | (e) | 103.9 | 139 | (e) |  |
| sulphide | 32.6 |  | (e) | (e) | 32.6 |  | (e) | (e) |
| Synthetic organic chemicals for photographic elsewhere specif1ed | Th. ewts. 3.6 | 57 | 14.9 |  | Th. cwts. 3.6 | 5 | 60.7 |  |
| Synthetic organic chemicals for tanners' use, not elsewhere specifled | 87.2 |  |  | 7.9 | 175.2 | 15 |  |  |
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CHEMICALS (GENERAL)
TABLE 7 (contd.)

| TABLE 7 (contd.) |
| :--- |

Larger establishments

| $\begin{aligned} & 1948(a) \\ & \text { Sales } \end{aligned}$ |  |  | $\begin{aligned} & 1937 \text { (b) } \\ & \text { Production } \end{aligned}$ |  | 1935 (b) (c) Production |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Quantity | value | Entries | Quantity | Value | Quantity | Va lue |
| Th. tons | §'000 | No. | Th. tons | \&'000 | Th. tons | §'000 |
| 222.7 | 1,467 | 27 | 170.2 | 551 | 156.6 | 504 |
| Th. $\begin{array}{r}45.0 \\ \text { 1bs. }\end{array}$ | 928 | 13 | Th.19.5 <br> $10 s$. | 339 | Th. $\begin{gathered}14.6 \\ \text { lbs. }\end{gathered}$ | 237 |
| $\begin{aligned} & 1,571 \\ & \text { Th. } \begin{array}{c} \text { tons } \end{array} \end{aligned}$ | 140 | 6 | Th. $\begin{gathered}\text { 2, } 783 \\ \text { tons }\end{gathered}$ | 132 (1) | Th. ${ }_{\text {2, } 652}$ | 157 (d) |
| 1,134.3 | 6,911 | 76 | 743.9 | 2,414 | 599.0 | 1,958 |
|  |  |  | 38.1 | 1,512 | 34.2 | 1,360 |
| Th. cwts. |  |  |  |  |  |  |
| 4.3 | 86 | . |  | (f) | .. | (f) |
| (43.4 | 380 | 9 |  |  |  |  |
| $\begin{array}{r} \text { Th. lbs. } \\ 2,076 \end{array}$ | 186 | 6 | $\begin{gathered} \mathrm{Th} . \text { lbs. } \\ \mathrm{Th}, 340 \\ \mathrm{Th} . \text { galls. } \end{gathered}$ | 87 | $\left.\begin{gathered} \mathrm{Th} . \\ 1,318 \\ \mathrm{Th} . \\ \text { gail } \end{gathered} \right\rvert\,$ | 84 |
| .. | 3,040 | 15 | 3,908 | 300(3) | 2,709 | 212 (g) |
| Th. tons |  |  | Th. tons |  | Th. tons |  |
| 8.2 | 150 | 7 | 7.3 | 52 | 7.5 | 54 |
| 129.7 | 1,313 | 10 | 100.0 | 450 | 88.4 | 375 |
| 64.9 | 1,641 | . |  |  |  |  |
| 19.8 | 385 | 5 |  |  | 64.9 | 880 (h) |
| . | 468 | 20 | . | 59(n) |  |  |

TABLE 8

## Chemical manufactures

Acids
Hydrochlor ic (as at $1.14 \mathrm{~s} . \mathrm{g}$.)
Nitric (in terms of 100 per cent. ac1d)
Salicylic, B.P. and equivalent
grades grades
Sulphuric (in terms of 100 per cent. ac 1d)
Nucotinic
Other ac 1ds, not elsewhere specifled
Alcohols and alcohol ethers, not elsewhere specified
Alcohols
H1gher fatty (e)
sulphonated
Ethyl ether (sulphuric ether)
other alcohols and alcohol
ethers, except ethyl alcohol
Aluminium compouids
Alum (soda alum, potash alum
and armonia alum
Aluminium sulphate
Aluminium oxide
Anhydrous, but not including
abrasives -

Other sorts, excluaing metallic driers, bauxite and abrasives
such as alundum

TABLE 8 (contd.)

Chemical manufactures (conta.)
Ammonia liquor (in terms of 880 Armonia)
Ammonium compounds
Carbonate and bicarbonate other sorts, except ammonium sulphate and ammonium phosphate

Barium compounds
Blanc fixe
Other sorts, excluding metallic driers, barytes, natural bar fum carbonate,
and plgments,

Bleaching materials
Sodium perborate
Other sorts
Proprletory bleaches ( J )
Bromides, not elsewhere specified, excluding ethyl
bromide
carbons, decolorising and activated
Chioroform
Copper sulphate
Ethyl acetat
Ethyl chloride
Formalde hyde, including solutions ( (1n terms of 40 per para formaldehyde


TABLE 8 (contd.)


(




TABLE 8 (contd.)

|  | $\begin{gathered} 1948(a) \\ \text { Sales } \end{gathered}$ |  |  | $\begin{aligned} & 1937 \text { (b) } \\ & \text { Production } \end{aligned}$ |  | $\begin{aligned} & 1935 \text { (b) (c) } \\ & \text { Production } \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Value | Entries | Quant1ty | Value | Quantity | Value |
|  |  | £ 000 | No. |  | §'000 |  | §'000 - |
| Work done for the trade or on commission ( y ) |  | 1,727 | 72 |  | 96 |  | 79 |
| Total |  | 191,448 | . |  | 42,047 |  | 37,404 |
| Less sales (or production) in other trades (see Table 9) |  | 32,555 | .. |  | 6,072 |  | 6,179 |
| Total principal products of this rrade sold or made by establishments in the trade |  | 158,893 | 508 |  | 35,975 |  | 31,225 |

(a) Great Britain only.
(b) United Kingdom.
(c) Firms not covered by the 1937 Inquiry recorded the following output in 1935:

Carbon diox ide
Potass ium compounds, other than lodide and cyanide
Other chem1cal manufactures
Manufactured bituminous products
Manufactured bituminous products
Essential oils, other than turpentine
Flavouring essences and dyes for foods, etc.
Th. tons
4.0
3.6
$\because .3$
9.3
Th. $\quad$ ibs.

(d) Described as rsalicylic acid, including salicylates not elsewnere specified". (f) Not recorded separately.

Not spectried as excer (rom wood distillation processes) only.
So as recter as excluding metalilic driers; natural barlum carbonate and pise
k Doscribed as ardermaldenatyde, whether in solution or polymerised.
Not specifled as excluding plements.
Including some potassium and socium nitrate mixtures.
Reagents only.
o) Excluding the output of textile firms for which see the Rayon, Nylon, etc., and S11k Trad
(D) Recorded as: --


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

## arger establishment



TABLE 9 (contd.)


TABLE 9 (contd.)

|  | $\begin{gathered} 1948 \text { (a) } \\ \text { Sales } \end{gathered}$ |  |  | $\begin{gathered} 1937 \text { (b) } \\ \text { Production } \end{gathered}$ |  | $\begin{aligned} & 1935(b) \\ & \text { Production } \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Quant 1ty | Value | Entries | Quant1ty | Value | Quantity | Value |
|  | Th. ewts. | 21000 | No. |  | \& 1000 |  | §'000 |
| Chemical manufactures (contd.) |  |  |  |  |  |  |  |
| Sodium compounds |  |  |  |  |  |  |  |
| Phosphates | Th. tons | - | . | Th. ${ }_{\text {tons }}$ | 1 | The ${ }^{\text {tons }}$ | 1 |
| Sulphate, including salt cake |  | 41 | 10 | Th. tons 3.6 | 17 | Th. tons | 20 |
| Other sorts, not elsewhere spec 1f1ed, other than chromate, dichromate and sulphide | . | 1,032 | 25 | 61.5 | 626 | 53.4 | 586 |
| Synthetic organic chemicals for photographic purposes, not elsewhere specifled |  | - | - |  |  |  |  |
| Synthetic organic chemicals for tanners i use, not elsewhere specified | Th. cwts. 83.2 | 190 | 8 | $\left\{\begin{array}{c} \text { Th. cuts. } \\ 45.5 \end{array}\right.$ | 41 | $\begin{array}{\|c} \mathrm{Th} . \text { cwts. } \\ 58.1 \end{array}$ | 51 |
| Wood distillation products (except acetic acid, acetic anhydr1de, acetone, aluminium acetate, calcium acetate, lead acetate and methyl alcohol) |  |  |  |  |  |  |  |
| Charcoal, other than decolorising and activated carbons | Th. tons 0.3 | 9 | - | - | - | - | - |
| Other, including iron acetate l1quor | - | - | - | - | - | - | - |
| zinc oxide | 4.2 | 121 | 6 |  | 5 | ${ }_{1.0}$ | 10 |
| Fine chemicals, not elsewhere specifled | Th. cwts. |  |  | Th. cwts. |  | Th. cwts. |  |
| Technical | 5.7 | 131 | 5 | 37.5 | 179 | 36.3 | 178 |
| Other, including analytical, reagents, research, and synthetic perfumery chemicals but excluding medicinal | $2.6$ | $\begin{array}{r} 142 \\ 2 \end{array}$ | 8 | 37.9 | 201 | 43.1 | 193 |
| Unc lassifled | - | 16 | - | 2.2 | 48 | 2.5 | 34 |
| Metallic organic compounds (naphthenates, linoleates, resinates, stearates and like compounds) not separately specifled, excluding metalloorganic medicinal compounds | - | 69 | 5 | - | - | - | - |
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TABLE 9 (contd.)

|  | $\begin{aligned} & 1948(a) \\ & \text { Sales } \end{aligned}$ |  |  | $\begin{gathered} 1937(\mathrm{~b}) \\ \text { Production } \end{gathered}$ |  | $\begin{aligned} & 1935(\mathrm{~b}) \\ & \text { Production } \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Value | Entries | Quantity | value | Quant 1ty | Value |
|  | Th. tons | §'000 | No. |  | §'000 |  | \& 1000 |
| Copper sulphate; tin salts; and tin oxide | 19.1 | 777 | .. |  |  |  |  |
| Bismuth salts and compounds, excluding pigments; cadmium compounds, including plating salts but not plgments; and molybdenum compounds | . | 352 | 7 |  |  |  |  |
| Calc ium compounds, other than acetate, carbide and cyanide (nitrolim) | 0.1 | 57 | . |  |  |  |  |
| Metallic salts and compounds, not elsewhere specified, excluding pigment colours and titanium dioxide | . | 2,533 | . |  |  |  |  |
| Nitro-cellulose (collodion cotton), not intended for explosives; chloroform; ethyl acetate; ethyl chloride; and carbon disulphide | . | 1,376 | 12 |  |  | . | 1,895 |
| Rubber accelerators, not elsewhere specifled; and rubber substitute (factice) | . | 366 | 7 |  |  |  |  |
| Other chemical manufactures, including cream of tartar, and plasticisers other than butyl phthalate and tricresyl phosphate | . | 5,779 | -• | . | 1,210 |  |  |
| Unclassified chemical manufactures | .. | 745 | 20 | - | - | - | - |
| Total chemical manufactures |  | 20,505 | - |  | 4,240 |  | 4,250 |

TABLE 9 (contd.)

## Plastic materials

Liquid and solid resins, solutions, emulsions and
dispersions, incluaing dispersions, including
polymers and co-polymer
Sheet, rod, tube, f11m,
foll and prof1le shapes
Cellulose acetate
Phenolics and cresylic (laminated only
vinyl chlorides
other (excluding casein)
Moulding and extrusion Moulding an
materials
Cellulose acetate
other
Total plastic materials
Other chemical products
Manufactured bituminous
products
products
Bituminous emulsions, except emuls1
use as paint
other bituminous compounds, except paint and manuu-
factured mastic asphalt
Boiler compositions and
disincrustants
disincrustants
Brewers ' finings, etc.
Ceramic colours and enamels,
not elsewhere spec
and ceramic glaze
Earth colours, processed
or powdered
Ochres
Red oxides of fron
Other earth colours,
except black
Unclassifled
Essential o11s, other
than turpentine

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TABLE 9 (contd.)

|  | $\begin{gathered} \text { 1948(a) } \\ \text { Sales } \end{gathered}$ |  |  | $\begin{aligned} & 1937(\mathrm{~b}) \\ & \text { Production } \end{aligned}$ |  | $\begin{aligned} & 1935(\mathrm{~b}) \\ & \text { Production } \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Value | Entries | Quantity | Value | Quantity | Value |
| Other chemical products (contd.) |  | \& 1000 | No. |  | £'000 |  | £'000 |
| Flavouring compounds; and flavouring essences and dyes for loods, etc. <br> Iron oxides, chemically manufactured | Th. cwits. <br> 41.3 | 905 7 | 105 | Th. cwits. | 180 | Th. cwits. | 166 |
| Inorganic pigment colours (pure or reduced), dry and in pulp form, not elsewhere specified <br> Iron blues | 5.8 | 39 | 9 |  |  |  |  |
| Chromium compounds, including lead greens and zinc greens | 18.7 | 167 | 19 |  |  |  |  |
| Other | 76.4 | 178 | 26 | 109.9 | 366 | 111.0 | 420 |
| Synthetic organic pigments (pure or reduced) |  |  |  |  |  |  |  |
| Pigment dyestuffs | 70.6 | 924 | 18 |  |  |  |  |
| Lakes and toners <br> Ifthopone, dry | Th. ${ }_{\text {28, }}^{\text {tons }}$ | 326 - | 15 | Th. $\begin{gathered}\text { tons } \\ 1.6\end{gathered}$ | 24 | Th. $\begin{gathered}\text { tons } \\ 1.2\end{gathered}$ | 19 |
| Sulphonated oils, other than sulphonated alcohols | 2.2 | 163 | . | 7n. 2.9 | 65 | 2.2 | 58 |
| V1treous enamels and frits | 111.6 .0 | $\begin{aligned} & 448 \\ & 186 \end{aligned}$ | 9 | 0.8 | 2 | - | - |
| Blacks, mineral and carbon, including vegetable, lamp, acetyline, and finishing materials for the textile trades, other than oils, (including gum, starch, etc.) not elsewhere specified | . | 186 | 5 |  | 138 | . | 128 |
| Purple fron ore | - | - | - | ${ }_{1.1}$ | 2 |  |  |
| Mastic and other adhesive cements; and pitch, other than coal tar pitch | .. | 568 | 89 |  |  | -• | 113 |
| Other chemical products, including case hardening compounds | . | 274 | 6 | . | 122 |  |  |
| Work done for the trade or on commission |  | 159(d) | 11 |  | - |  | - |
| Total |  | 32,555 | . |  | 6,072 |  | 6,178 |

(a) Great Britain only.
(b) United Kingdom. (c) Ethy1 ether (sulphuric ether) only.

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| TABLE 10 (contd.) |
| :--- |

## (a) Great Britain only. <br> (b) United Kingdom

(c) Amount charged.

|  | Sales | Percentage of total sales |
| :---: | :---: | :---: |
| auk | §'000 |  |
| Sales (or transfers) to other organisations under the same control <br> Productive works <br> Export sales organisations (including branches abroad) Other wholesale or selling organisations Retall shops, etc. | $\begin{array}{r} 18,526 \\ 7,624 \\ 5,579 \\ 42 \end{array}$ | $\begin{aligned} & 9.9 \\ & 4.1 \\ & 3.0 \end{aligned}$ |
| Total sales (or transfers) to other organisations under the same control | 31,771 | 16.9 |
| Sales to independent buyers <br> Exports invoiced directly overseas | 15,970 | 8.5 |
| Exports invoiced to Crown Agents and purchasing houses in this country of individual firms and governments abroad His Majesty's Government and Local Authorities (other than productive establishments) | $\begin{aligned} & 3,913 \\ & 9,369 \end{aligned}$ | 2.1 5.0 |
| Manufacturers, repairers, builders, mines, public utilities, and transport and other productive undertakings | $96,337$ | 51.3 |
| Wholesalers, merchants and other agents for resale <br> Retallers, including multiple shops, caterers and N.A.A.F.I. for resale | 25, 782 (a) <br> 2,603 | 13.7 1.4 |
| Other businesses (including farmers) and institutions of all kinds <br> Members of the public, including employees | $\begin{array}{r} 1,847 \\ 42 \end{array}$ | 1.0 |
| Total sales to independent buyers | 155,862 | 83.1 |
| Total | 187,633 | 100.0 |

[^0]CHEMICALS (GENERAL)
2/E/29
Production, exports and imports
of certain principal products (a)
TABLE 12

|  |  | Production (b) | Exports (c) | Retained imports (d) |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Th. tons | Th. tons | Th. tons |
| Chemical manufactures |  |  |  |  |
| Ac 1ds |  |  |  |  |
| Nitric (in terms of 100 per cent. acid) (e) | $\left\{\begin{array}{l} 1948 \\ 1937 \end{array}\right.$ | $\begin{array}{r} 197.7 \\ 83.4 \end{array}$ | $\begin{aligned} & 0.1 \\ & 0.1 \end{aligned}$ | $2 . \overline{7}$ |
| Sallcylic, B. P. and equivalent grades ( f ) | \{1948 |  | Th. ${ }_{\text {Th }}$ | lbs. |
|  | 1937 | Th. $\begin{gathered}3,819 \\ \text { \% }\end{gathered}$ | $\begin{aligned} & 757 \\ & \text { Th. tons } \end{aligned}$ | Th. $\begin{aligned} & 74 \\ & \text { tons }\end{aligned}$ |
| Sulphuric (in terms of 100 per cent. acid) (e) | 1948 | $1,464.9$ $1,025.9$ | 4.4 3.2 | 0. |
|  |  |  |  |  |
| other sorts, not elsewhere specified |  | £ 1000 | § 000 | § 1000 |
| Hydrochloric (as at $1.14 \mathrm{~s} . \mathrm{g}$. ) (e) | 1948 | 1,467 (g) | 25 | - |
| Other | 1948 | 4,705(g). | 878 | 1,149 |
| Total other sorts, not elsewhere specifled | $\left\{\left.\begin{array}{l} 1948 \\ 1937 \end{array} \right\rvert\,\right.$ | 6,172(g) $2,063(\mathrm{~h})$ | 904 376 | 1,149 495 |
| Ethyl ether (sulphuric ether) | $\left\{\begin{array}{l}1948 \\ 1937\end{array}\right.$ | $\begin{array}{r} \text { Th. lbs. } \\ 2,269 \\ 1,360 \end{array}$ | $\begin{aligned} & \text { Th. } \begin{array}{l} \text { los. } \\ 33 \\ 89(1) \end{array} \end{aligned}$ | Th. lbs. |
| Aluminium compounds |  | Th. tons | Th. tons | Th. tons |
| Alum (soda alum, potash alum and ammonia alum) | $\left\{\begin{array}{l} 1948 \\ 1937 \end{array}\right\}$ | $\begin{aligned} & 8.0 \\ & 7.5 \end{aligned}$ | 4.0 2.6 | 0.1 |
| Aluminium sulphate | $\left\{\begin{array}{l}1948 \\ 1937\end{array}\right.$ | $\begin{aligned} & 133.3 \\ & 100.0 \end{aligned}$ | $\begin{aligned} & 34.7 \\ & 17.0 \end{aligned}$ | $6 . \overline{9}$ |
| Aluminium oxide |  |  |  |  |
| Anhydrous, but not including abrasives | $\left\{\begin{array}{l} 1948 \\ 1937 \end{array}\right.$ | $64.7$ (j) | 0.1 15.5 | - |
| Hycrated | $\left\{\begin{array}{l}1948 \\ 1937\end{array}\right.$ | 110.6 63.9 \& 1000 | $\begin{array}{r} 3.8 \\ 0.3 \\ \AA^{\prime} 000 \end{array}$ | £ $1000{ }^{\circ}$ |
| Other sorts, excluding metallic driers, bauxite, and abrasives such as alundum ( k ) | $\left\{\begin{array}{l} 1948 \\ 1937 \end{array}\right.$ |  | $\begin{gathered} 40 \\ 7 \\ \text { Th. } \begin{array}{c} \text { tons } \end{array} \end{gathered}$ | $\begin{aligned} & 14 \\ & \text { Th. } 14 \\ & \text { Thens } \end{aligned}$ |
| Ammonia liquor | $\left\{\begin{array}{l}1948 \\ 1937\end{array}\right.$ | $\begin{aligned} & 589.9(1) \\ & 336.0(1) \end{aligned}$ | $\begin{aligned} & 0.9 \\ & 0.4 \end{aligned}$ | - |
| Ammonium compounds |  |  |  |  |
| Carbonate and bicarbonate | $\left\{\begin{array}{l} 1948 \\ 1937 \end{array}\right.$ | $\begin{aligned} & 5.0 \\ & 3.7 \end{aligned}$ | $\begin{aligned} & 2.8 \\ & 1.9 \end{aligned}$ | - |
| Other sorts, except ammonium sulphate and ammonium phosphate | $\left\{\begin{array}{l} 1948 \\ 1937 \end{array}\right.$ | $\begin{gathered} 132.4(\mathrm{~g}) \\ 27.6(\mathrm{~h}) \end{gathered}$ | $\begin{array}{r} 110.9 \\ 10.9 \end{array}$ | $\begin{aligned} & 0.1 \\ & 8.0 \end{aligned}$ |
| DS 41674/1 |  |  |  |  |



TABLE 12 (contd.)

|  |  | Production (b) | Exports (c) | Retained imports (d) |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Th. tons | Th. tons | Th . tons |
| Chemical manufactures (contd.) |  |  |  |  |
| Magnes Ium compounds |  |  |  |  |
| Chlor ide | $\left\{\begin{array}{l} 1948 \\ 1937 \end{array}\right.$ | $\begin{aligned} & 0.2 \\ & (r) \end{aligned}$ | $\begin{aligned} & (r) \\ & 0.1 \end{aligned}$ | $7.1$ |
| Other sorts, not elsewhere specif1ed | $\left\{\begin{array}{l} 1948 \\ 1937 \end{array}\right.$ | $\begin{aligned} & 66.7 \\ & 24.9 \end{aligned}$ | 9.9 5.5 | $\begin{array}{r} 0.5 \\ 17.8 \end{array}$ |
| Potassium compounds |  | Th. ewts. | Th. ewts. | Th. ewts. |
| Iodide | $\left\{\begin{array}{l} 1948 \\ 1937 \end{array}\right.$ | $\begin{aligned} & 3.2 \\ & 3.5 \end{aligned}$ | $\begin{aligned} & 2.4 \\ & 1.3 \end{aligned}$ | $0.1$ |
| Chloride (muriate) | $\left\{\begin{array}{l} 1948 \\ 1937 \end{array}\right.$ | 1.5 | $\begin{aligned} & (r) \\ & 5.9 \end{aligned}$ | $\begin{aligned} & 8,760.7 \\ & 1,329.2 \end{aligned}$ |
| Other sorts, not elsewhere specif1ed | $\left\{\begin{array}{l} 1948 \\ 1937 \end{array}\right.$ | 678.3 .0 | $\begin{aligned} & 98.5 \\ & 53.5 \end{aligned}$ | $\begin{array}{r} 413.1 \\ 2,349.2 \end{array}$ |
| Total potassium compounds other than potassium lodide | $\left\{\begin{array}{l} 1948 \\ 1937 \end{array}\right.$ | $\begin{aligned} & 677.8 \\ & 145.4(\mathrm{~s}) \end{aligned}$ | 98.5 59.4 | $\begin{aligned} & 9,173,8 \\ & 3,678,4 \end{aligned}$ |
| Sodium compounds |  | Th. tons | Th. tons | Th. tons |
| Bicarbonate, carbonate ( (ncluding soda crystals and soda ash) and caustic soda (t) Chromate and dichromate | $\begin{aligned} & \left\{\begin{array}{l} 1948 \\ 1937 \end{array}\right. \\ & \left\{\begin{array}{l} 1948 \\ 1937 \end{array}\right. \end{aligned}$ | $1,619.7$ $1,523.9$ <br> Th. cwts. 232.1 162.0 | 335.3 381.2 Th. cwts. 24.6 25.6 | 0.1 Th. 1.2 2.2 .2 34.4 3.4 |
| Phos phates | $\left\{\begin{array}{l} 1948 \\ 1937 \end{array}\right.$ | $\begin{array}{r} 545.6 \\ 124.0 \\ \text { Th. } \begin{array}{r} \text { tons } \end{array} \end{array}$ | $\begin{array}{r} 93.9 \\ \mathrm{Th} . \\ \text { R4.5 } \\ \text { tons } \end{array}$ |  |
| Sulphate, including salt cake | $\left\{\begin{array}{l} 1948 \\ 1937 \end{array}\right.$ | $\begin{aligned} & 94.1(\mathrm{~g}) \\ & 99.2(\mathrm{~h}) \end{aligned}$ | 19.9 40.1 | . 3.1 3.6 |
| Cyanide, nitrate, nitrite, and sillcate (water glass) (u) | $\left\{\begin{array}{l} 1948 \\ 1937 \end{array}\right.$ | ${ }^{103.9}$ (r) | 22.0 26.9 | ${ }_{41.8}^{44.7}{ }^{\text {(v) }}$ |
| Other sorts, not elsewhere specified | $\left\{\begin{array}{l} 1948 \\ 1937 \end{array}\right.$ | $\begin{gathered} 194.4(\mathrm{~g}) \\ 198.4 \mathrm{f}) \\ \mathrm{Th} . \text { cwts. } \end{gathered}$ | $\begin{gathered} 30.3 \\ \mathrm{Th} .9 .6 \\ \mathrm{c} .6 \mathrm{sts} . \end{gathered}$ | $\begin{gathered} 1.9 \\ \text { Th. } \\ \text { cwts. } \end{gathered}$ |
| Synthetic organic chemicals for photographic purposes, not elsewhere specified | $\left\{\begin{array}{l} 1948 \\ 1937 \end{array}\right.$ | 3.6 | 22.5 1.8 | $\begin{aligned} & 3.0 \\ & 1.7 \end{aligned}$ |
| Tartar, cream of | $\left\{\begin{array}{l} 1948 \\ 1937 \end{array}\right.$ | ${ }^{12.3}$ (w) | $\begin{aligned} & 3.8 \\ & 9.8 \end{aligned}$ | $\begin{aligned} & 0.2 \\ & 9.4 \end{aligned}$ |
| Tartrates, not elsewhere specifled | $\left\{\begin{array}{l} 1948 \\ 1937 \end{array}\right.$ |  | Th. $\begin{gathered}2.4 \\ \text { 2.4. } \\ \text { tons } \\ \text { a }\end{gathered}$ |  |
| Charcoal, other than decolorising and activated carbons | $\left\{\begin{array}{l} 1948 \\ 1937 \end{array}\right.$ | $\begin{aligned} & 7.2 \\ & 8.1 \end{aligned}$ | 0.4 1.7 | $\begin{aligned} & 12.5 \\ & 25.5 \end{aligned}$ |
| Zinc oxide | $\left\{\begin{array}{l} 1948 \\ 1937 \end{array}\right.$ | $\begin{aligned} & 61.8(\mathrm{~g}) \\ & 52.2(\mathrm{~h}) \\ & \mathrm{Th}, \mathrm{cwte} . \end{aligned}$ | $\begin{gathered} 14.2 \\ \text { Th. }{ }^{15.0} \text { cwts. } \end{gathered}$ | Th. $\stackrel{0.7}{\text { cwis }}$, |
| Cadmium compounds, including plating salts but not pigments | 1948 |  |  |  |
| DS 41674/1 |  |  |  |  |

TABLE 12 (contd.)


TABLE 12 (contd.)

|  |  | Production (b) | Exports (c) | Retained <br> imports (d) |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Th. owts. | Th. cwts. | Th. ewts. |
| Other chemical products (contd.) |  |  |  |  |
| Iron oxides, chemically manufactured | 1948 | 1,554.4 (8) | 65.4 | 5.7 |
| Inorganic pigment colours, not elsewhere specifled (pure or reduced), dry and in pulp form |  |  |  |  |
| Iron blues | 1948 | 32.6(8) | 10.6 | - |
| Chromium compounds (including lead greens and zinc greens) | 1948 | 164.2 (8) | 22.8 | 3.0 |
| Syathetic organic pigments (pure or reduced) | $\left\{\begin{array}{l} 1948 \\ 1937 \end{array}\right.$ | $211.2(\mathrm{~g})$ | 28.8 10.9 | 0.1 |
| Pitch, other than coal tar pltch | $\left\{\begin{array}{l}1948 \\ 1937\end{array}\right.$ | $\text { Th. tons } \begin{aligned} & \text { ton } \\ & 3.7(\mathrm{~g}) \\ & 5.1(\mathrm{~h}) \end{aligned}$ | Th. tons $\begin{gathered}1.4 \\ 10.5\end{gathered}$ | $\begin{gathered} \text { Th. tons } \\ 2.5 \\ 2.1 \end{gathered}$ |
| Sulphur | $\left\{\begin{array}{l} 1948 \\ 1937 \end{array}\right.$ | $\begin{aligned} & \text { Th. cwts. } \\ & 471.0 \text { (g) } \\ & 336.4(\mathrm{~h}) \end{aligned}$ | Th. $\substack{77.9 \\ 2.0}$ 2.0 | Th, ewts. 6,954.7 152.2 |
| Ground barytes | 1948 | $\begin{aligned} & \text { Th. tons } \\ & 6.2(\mathrm{~g})(\mathrm{gg}) \end{aligned}$ | Th. tons | $\begin{aligned} & \text { Th. tons } \\ & 9.9 \end{aligned}$ |

 The 1 I gures, therefore, are not strictly comparable.
Inc luad ing production by establishments classified to other trades.
(b) Including prod
(c) Valued foo.
(d) Valued c. 1.0 .


(g) Sales.
(h)
production for sale.
(h) Production for sale.
(1) The figures shown nave been calculated on the bas is of 311 gallons to the ton.
(j) Included with hydrated alumninium oxide.
(k) The oversea trade and the 1937 production figures are not specified as excluading metallic driers.
(K) The oversea trade and the 1937 proc
(1) Returned in terms of 880 Ammonta.
(m) Including blanc fixe.

Includ ing ethyl bromide.
The oversea trade and the 1937 production figures relate to "Formaldehyde, whether in solution or polymerisedn.
Including ethyl lodide.
The oversea trade figures relate to red lead and orange lead only.
(a) The oversea trade ilgures relate to red lead and orange
(r) Included with "other sortsn
(s) Includ 1 ng some potass ium and sodium nitrate mixtures.
(r) Included with "other sorts ind sodum nitrate mixtures.
(s) Includ Ins some potass ium and
(t) The production 1gures for booh years record soda ash on the bas is of $58^{\circ}$ and caustic in terms of $76^{\circ} \mathrm{E}$.

The production Pl gures for both years record soda ash on the bas
The production 1 figure records $s 111$ icate in terms of solid glass.
The production
Excluding silicate.
Included with nTartrates,
not elsewhere specip iedr.

 (z) The oversea trade figure 1 ncludes art1f1c ial horn and the 11 ke .
(z) The oversea trade if igure 1 ncludes art 1 f
(aa) Excluadng the output of text1le f1rms.
(b)
(Db) Including butyrate.

(e) Partly est inated.
(fi) Including $\AA 1,293,000$ unclassified flavour ing essences and dyes for foods, etc.


## table 13

| TABLE IO |
| :--- |
| Materials |
| Alcohol |
| Ethyl alcohol |
| Duty pald |
| Duty free, other than methylated |
| spirits |

Methylated spirits (industrial or
mineralised)

Me thyl alcohol
Barytes
Benzoles, refined (in terms oi
motor

Chromium ore
Coal tar, crude (on the basis of 5 per cent. water content), and

Iodine, crude
Lead
Phosphate rock (mineral phosphates
of 11 me)
pyrites
Spent oxide
Sulphur, crude
Tin
Toluoles, refined (in terms of
$90^{\prime}$ 's toluole)
Zinc (spelter)
2

## Larger establishments

| 1948 (a) |  | 1937 (b) |  | 1935 (b) |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Materials and fuel purchased |  | Usage of purchased materials and fuel |  |  |  |
| Quantity | Cost | Quantity | cost | Quanti ty | cost |
| Th. proop galls. | £'000 | Th.galls. | £'000 | Th. galls. | \&'000 |





2/E/36
TABLE 13 (contd.)

## Materials (contd.)

Naph thalene, all grades (in terms of
$66^{\circ} \mathrm{C}$. salts)
Nitric acid (on the basis of
100 per cent. acld)

## Petroleum hydrocarbons, other tha

 lubricating and fuel oilsPotassium compounds
Salt and bine (in terms of salt
content)
Sodium compounds
Bicarbonate
Carbonate, including soda crystals
and soda ash (on the basis of $58^{\circ}$ )
Caustic soda (on the basis of
$76^{\circ} \mathrm{E}$ )
Sulphuric acid (on the basis of
100 per cent. actd)
zinc dust
Rennet casein
Cellulose acetate flake
Hexamine
Carbolic acid, crude or crystal (g) Plasticisers
Phthalate esters
Other

## Phthalic anhydride

Urea
Th1ourea
Process papers
Wood flour

CHEMICALS AND ALLIED TRADES


(all

| 1948 (a) |  | 1937 (b) |  | 1935 (b) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Materials and <br> fuel purchased | Usage of purchased matertals and fuel |  |  |  |  |
|  | Quantity | cost | Quantity | Cost | Quantity | Cost |
| Th. cwts. | $\S^{\prime} 000$ |  | $\S^{\prime} 000$ |  | $\S^{\prime} 000$ |  |

CHEMICALS (GENERAL)
2/E/37
TABLE 13 (contd.)

| 1948 (a) |  | 1937 (b) |  | 1935 (b) |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Materials and fuel purchased |  | Usage of purchased matertals and fuel |  |  |  |
| Quant1ty | Cost | Quantity | Cost | Quantity | Cost |
| Th. cwts. | $\&^{\prime} 000$ |  | §'000 |  | \& ${ }^{\prime} 000$ |
| $\begin{array}{r} 36.4 \\ 140.2 \end{array}$ | $\begin{array}{r} 355 \\ 1,331 \end{array}$ |  |  |  |  |
| $\begin{array}{r} 30.4 \\ 4.9 \end{array}$ | $\begin{array}{r} 467 \\ 70 \end{array}$ |  |  |  |  |
| 10.1 0.7 . | 251 9 3 | . | 11,654 | . | ${ }_{(12,}^{1251}$ |
| .. | 229 |  |  |  |  |
| 194.5 | 795 |  |  |  |  |
| 4,007 | 348 |  |  |  |  |
| .. | 453 |  |  |  |  |
| - | 47,967 |  |  |  |  |
| Th. ${ }_{\text {- }{ }_{\text {- }} \text { - }}$ | - | Th. ${ }^{\text {a }}$ - | 1,625 | Th. tons | - |
| 3,192.3 | 8,340 | 2,955 | 2, 519 | 2,480.5 | 1,799 |
| 289.5 | 1,065 | . | (f) | 172.9 | 165 |
| $\begin{aligned} & \text { Th. B. T. U. U. } \\ & \text { (kW.hrs. }) \end{aligned}$ |  | $\begin{aligned} & \text { Th. B. T. U. ©. } \\ & \text { (kW. hrs.) } \end{aligned}$ |  | $\begin{aligned} & \text { Th. B. T. U. . } \\ & \text { (kW. hrs.) } \end{aligned}$ |  |
| 1,227,672 | 3,916 |  |  |  |  |
| 108,611 | 321 | 577,464 | 785 | 384,590 | 591 |
| 401, 322 | 807 |  |  |  |  |

Symthetic resins, including polymers Synthetic resins, including
(in terms of gross weight)
vinyl
Other
Moulding and extrusion
1mpregnated) materials (including Polyvinyl chloride, unplasticised Other
Sheet, rod, tube, flim, foil,
blanks and profile shapes
Acrylic
Polyvinyl ch1oride,
plasticised
plasticised
other
Solutions, emulsions and dispersions
(in terms of gross weight)
cotton plece-goods
Water charges ( g )
All other purchased materials
Unclassified materials

Fuel and electricity
Coal
coke

Electricity purchased (1)
From public supply
From other sources
Electricity obtained from other works under the same ownersh 1 p

Stocks of finished products and work in progress
and stocks of materials and fuel, 1948 Larger establishments in Great britain
table 13 (contd.)

(a) Great Britain only
(a) Great Britain
(b) United Kingdom.
(c) Described as "Alcohol (on the basis of 100 per cent. ethyl alcohol)"
d) Described as "Benzole, refined",
e) Described as "Coal tar, crude".
(f) Not recorded separately.
(g) So far as recorded separately
(h) Including fuel not specifled separately.
(1) The total quantity of electricity consumed in 1948 was $2,676,470,000$ B. T. units including $938,865,000$ generated in the same works.

TABLE 14

|  | At beginning of year |  | At end of year |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Value | Quantity | Value |
| Finished products | Th. tons | \&'000 | T . tons | §'000 |
| sulphuric acid (on the basis of 100 per cent. ac1d) | 33.5 | 190 | 33.7 | 194 |
| Sodium compounds | 51.7 | 497 | 92.2 | 1,071 |
| zinc oxide | 1.5 | 50 | 2.1 | 122 |
| Other finished products | . | 7,275 | . | 9,585 |
| Work in progress |  | 1,685 |  | 2,224 |
| Total finished products and work in progress |  | 9,698 |  | 13, 196 |
|  | Th. proof galls. |  | Th. proof galls. |  |
| Matertals and fuel |  |  |  |  |
| Alcohol (a) |  |  |  |  |
| Ethyl alcohol |  | 119 19 | 388 | 107 12 |
|  | Th. buik galls. |  | Th. bulk galls. |  |
| Methylated spirits (industrial or minerallsed) | 31 | 6 | 39 | 9 |
|  | Th. proof galls. |  | Th. proof galls. |  |
| Methyl alcohol | 536 | 23 | 479 | 23 6 |
|  | Th. tons |  | Th. tons |  |
| zinc (spelter) | 5.5 | 230 | 4.5 | 292 |
|  | Th. cwts. |  | Th. cwts. |  |
| Plastic materials | 7.7 | $\begin{gathered} 113 \\ 26 \end{gathered}$ | 8.8 | 118 15 |
|  | Th. tons |  | Th. tons |  |
| Coal (a) | 430.1 | 1,029 | 340.0 | 877 |
| Other descriptions of materials and fuel | .. | 19,303 | .. | 23, 011 |
| Total materlals and fuel |  | 20.868 |  | 24, 471 |

(a) So far as recorded separately.

DS $41674 / 1$

## (1) Private firms (a)

| sucay | Average number of operatives |  |  | Admin1strative, technical and clerical employees (b) |  |  | Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1948 (c) | 1937 (d) | 1985 (d) | 1948 (c) | 1937 (d) | 1935(d) | 1948 (c) | 1937 (d) | 1935(d) |
| Males |  |  |  |  |  |  |  |  |  |
| Under 18 | 1,786 | 2, 115 | 1,558 | 675 | 404 | 287 | 2, 461 | 2,519 | 1,845 |
| All ages | 63,203 | 38,332 | 34,982 | 17,501 | 7,293 | 6,613 | 80,704 | 45,625 | 41,595 |
| Females |  |  |  |  |  |  |  |  |  |
| Under 18 | 402 | 550 | 392 | 1,538 | 501 | 263 | 1,940 | 1,051 | 655 |
| All ages | 5,428 | 2,535 | 2,235 | 8,812 | 2,691 | 2,304 | 14, 240 | 5,226 | 4,539 |
| Total |  |  |  |  |  |  |  |  |  |
| Under 18 | 2,188 | 2,665 | 1,950 | 2, 213 | 905 | 550 | 4,401 | 3,570 | 2,500 |
| All ages | 68,631 | 40,867 | 37, 217 | $\begin{gathered} 26,313 \\ (\mathrm{e}) \end{gathered}$ | 9,984 | 8,917 | 94,944 <br> (e) (f) (g) | 50,851 | 46,134 |
| Total | $\S^{\prime} 000$ | .. | . | $\S^{\prime} 000$ | . | . | $\AA^{\prime} 000$ | . |  |

## remuneration

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

$$
\begin{array}{lrr}
\text { Canteen workers } & 127 \text { males } & 1,294 \text { females } \\
\text { Other workers } & 2,044 \text { males } & 350 \text { females }
\end{array}
$$

(b) Number at September 25, 1948, October 16, 1937, and October 12, 1935.
(c) Great Britain only.
(d) United Kingdom.
(e) There were, in addition, 15 male working proprietors in 1948. Working proprietors are included in
(f) The employers' share of contributions to all National Insurance Schemes payable during the year in
(f) The employers' share of contributions respect of these workers amounted to $\$ 770,000$.
(g) The following persons (included in this total) were employed on special work by establishments employing 100 or more persons:-

Transport of goods outside the premises Maintenance and repair of f1rms' buildings, but not plant.
Research work not directly connected with current production however charged

Aam1n1strative, technical and
cler1cal employees
Operatives

$$
\begin{aligned}
& \text { cecrnical ano } \\
& \text { clertcal employees }
\end{aligned}
$$

,

1,016
657

## (ii) Government Departments (a)

TABLE 15 (contd.)

|  | Average number of operatives | Administrative, technical and clerical employees (b) | Total |
| :---: | :---: | :---: | :---: |
|  | 1948 | 1948 | 1948 |
| Males |  |  |  |
| Under 18 | 53 | 12 | 65 |
| All ages | 4,674 | 532 | 5,206 |
| Females |  |  |  |
| Under 18 | 12 | 14 | 26 |
| All ages | 161 | 211 | 372 |
| Total |  |  |  |
| Under 18 | 65 | 26 | 91 |
| All ages | 4,835 | 743 | $\begin{gathered} 5,578 \\ \text { (c) (d) } \end{gathered}$ |
|  | \& 000 | $£^{\prime} 000$ | §'000 |
| Total remuneration | 1,637 | 373 | 2,010 |

(a) Excluded employees. The following numbers were employed at Government establishments in this Excluded employees. The following numbers were employed at Gover
trade but are not included in the table or in any other report:-

$$
\begin{array}{lrr}
\text { Canteen workers } & 4 \text { males } & 133 \text { females } \\
\text { Other workers } & 151 \text { males } & 3 \text { females }
\end{array}
$$

(b) Number at September 25, 1948 .
(c) The employers' share of contributions to all National Insurance Schemes payable during the year in
respect of these workers amounted to $\$ 50,000$.
respect of these workers amounted to 250,000 .
(d) fere following persons (ncluded in this total) were employed on special work by establishments
employing 100 or more persons:-

Operatives | Administrative, technical |
| :---: |
| and clerical employees |

1
376

Transport of goods outside the premises
Maintenance and repair of firms' buildings, but not plant
Research work not directly connected with
current production however charged

In addition to the employees in the above table the private firms in this trade employed 18 female
outworkers in 1948, the amount paid to them being outworkers in 1948, the amount paid to them being $£ 2,000$. Similar information is not avallable for 1937
and 1935 . and 1935.
DS $41674 / 1$
table 16

|  | Amountpaidby allestablish-ments | Establishments making returns for the calendar year |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Amount pald | Percentage of annual remuneration paid in |  |  |  |  |
|  |  |  | $\begin{aligned} & \text { First } \\ & \text { quarter } \end{aligned}$ | Second quarter | $\begin{gathered} \text { Third } \\ \text { quarter } \end{gathered}$ | Fourth quarter | Year |
|  | §'000 | \& 1000 |  |  |  |  |  |
| Operatives | 25,053 | 20,078 | 24.2 | 25.0 | 25.3 | 25.5 | 100.0 |
| Administrative, technical and clerical employees | 12,897 | 10,700 | 23.9 | 24.5 | 24.7 | 26.9 | 100.0 |
| Total | 37,950 | 30,779 | 24.1 | 24.9 | 25.1 | 26.0 | 100.0 |

(a) Including bonus and commission payments.

## TABLE 18

|  | Amount pald |
| :---: | :---: |
|  | §'000 |
| Repatr and maintenance |  |
| of bulldings | 358 |
| of plant, machinery and vehicles | 1,250 |
| Unclassifled | 1,068 |
| Hire of plant, machinery and vehicles | 467 |
| Advertising and market research |  |
| Advertising in newspapers, magazines and periodicals | 220 |
| Other advertising services (poster display, despatch of circulars, etc.) and market research | 114 |
| Unclasslifed | 360 |
| Payments made for research work |  |
| To research assoctations | 27 |
| To universities, institutions, academic bodies and similar agencies | 32 |
| To other cormerctal concerns | 165 |
| Postage, telephone, telegrams and cables | 468 |
| Commercial insurance premiuns | 582 |
| Rates (excluding water rates) payable in the year | 267 |

plant, machinery and vehicles acquired and disposed of, 1948 Larger establishments In Great Britaln

| Prat | Acquisitions |  | D1sposals |
| :---: | :---: | :---: | :---: |
|  | New | Second-hand |  |
| Plant and machinery | $\begin{array}{r} 81000 \\ 10,878 \end{array}$ | $\begin{aligned} & \AA_{1}^{\prime} 000 \\ & 2,540 \end{aligned}$ | $\begin{array}{r} \Sigma^{\prime} 000 \\ 867 \end{array}$ |
| Vehicles | 908 | 255 | 117 |
| Total | 11,786 | 2,796 | 983 |

Capital expenditure on bullding work and changes in
occupation of bulldings and land
occupation of bulldings and land, 1948
Larger establishments in Great Britain
TABLE 20

1. Capital expenditure on building work (a)
2. Existing buildings and land (b)

## (1) Capital cost of freeholds bought

Est1mated capital value of
(11) Rented property newly occupied in the
year (c)
(1i1) Leasehold buildings and land newly occupled in the year

Total of heading 2
Total of headings 1 and $z$
3. Existing bulldings and land relinquished (d)
(1) Selling value of freeholds sold
(11) Estimated value of other properties relinquished

$$
\text { Total of heading } 3
$$

4. Headings 1 and 2 less heading 3

(a) Excluding site value which, where appropriace, is included in heading 2(1).
(c) Propigures do not reflect changes in ownership of previously occupled land and buildings
lease or the payment of a premium.
(d) Including property destroyed or abandoned.

TABLE 21

| England | Wales | Scotland | Great <br> Britain |
| :---: | :---: | :---: | :---: |
| $\begin{array}{r} 5.000 \\ 168,201 \end{array}$ | $\begin{array}{r} 81000 \\ 11,070 \end{array}$ | $\begin{aligned} & 8,000 \\ & 7,974 \end{aligned}$ | $\begin{array}{r} \& 1000 \\ 187,245 \end{array}$ |
| 100,229 | 7,017 | 4,702 | 111,948 |
| 461 | - | - | 461 |
| 67,511 | 4,053 | 3. 272 | 74,836 |
| 33,724 | 2,273 | 1,953 | 37,950 |
| $\begin{gathered} \mathrm{No.} \\ 88,744 \end{gathered}$ | $\begin{gathered} \text { No. } \\ \text { 6, } 071 \end{gathered}$ | $\begin{aligned} & \text { No. } \\ & 5,722 \end{aligned}$ | $\begin{gathered} \mathrm{No} \text {. } \\ 100,537 \end{gathered}$ |
| $\begin{aligned} & { }_{761} \end{aligned}$ | ${ }_{668}^{\varepsilon}$ | $\frac{8}{572}$ | ${ }_{744}$ |
| इ'000 | £ 000 | \& ${ }^{\prime} 000$ | \& 1000 |
| 11,986 | 672 | 539 | 13, 196 |
| 21,583 | 1,224 | 1,664 | 24, 471 |
| No. 440 | ${ }^{\mathrm{No}}{ }_{20}$ | No. ${ }^{0} 50$ | No. 510 |

Gross output (production)
cost of matertals and fuel used
Payment for work done on materials given out Net output
Wages and salarles of persons employed
Average number of persons employed (a)
Net output per person employed (a)
Stocks at end of year
Finished products and work in progress
Materlals and fuel
Number of establ 1shments
Larger establishments
(a) Excluding outworkers.

|  | England | Wales | Scotland | Great Britain |
| :---: | :---: | :---: | :---: | :---: |
| Output of firms in this trade | \&'000 | §.000 | §'000 | § 1000 |
| Total value of sales (see Table 23 ) | 170, 278 | 10,960 | 8,039 | 189,277 |
| Adjustment for changes in stocks and work in progress | + 3.237 | + 155 | + 107 | + 3,498 |
|  | 173,515 | 11, 115 | 8,146 | 192, 775 |
| Less payment for transport by other firms | 5,314 | 44 | 172 | 5,530 |
| Gross output (production) | 168,201 | 11,070 | 7,974 | 187, 245 |
| Materials and fuel used by firms in this trade |  |  |  |  |
| Purchases (see Table 24) (a) | 103, 198 | 7,342 | 5,011 | 115,552 |
| Adjustment for changes in stocks | - 2,969 | - 325 | -310 | - 3,604 |
| Materlals and fuel used | 100, 229 | 7.017 | 4,702 | 111,948 |

[^1]TABLE 22

|  | England | Wales | Scotland | Great <br> Britain |
| :--- | :---: | :---: | :---: | :---: |
| Number of returns | 217 | 2 | 16 | 235 |
| Average number of persons employed (a) |  |  |  |  |
| $\quad$ Males | 987 | 9 | 47 | 1,043 |
| Females | 319 | - | 18 | 337 |
| Total | 1,306 | 9 | 65 | 1,380 |

(a) Including working proprietors.


## table 23 (contd.)




TABLE 23 (contd.)


|  | England and Wales |  | Scotland |  | Great Britain |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| mand | Quantity | value | Quant1ty | value | Quantity | value |
|  | Th. tons | §'000 | Th. tons | §'000 | Th. tons | §'000 |
| Principal products (contd.) <br> Other chemical products (contd. <br> Manufactured bituminous products (contd.) |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Other bituminous compounds, except paint and manufactured mastic asphalt | 16.8 .. | 277 51 | 7.3 .0 | 85 29 | 24. 1. | 362 80 |
|  | Th. cwts. |  |  |  | Th. cwts. |  |
| Boiler compositions and disincrustants | .. | (a) | .. | (a) | 161.6 | 503 |
| Brewers' finings, etc. | . | (a) | .. | (a) | .. | 186 |
| Ceramic colours and enamels, not elsewhere spec1f1ed; and ceramic glaze | 157.0 | 945 | - | - | 157.0 | 945 |
| Earth colours, processed or powdered |  |  |  |  |  |  |
| Ochres | 113.3 | 129 | - | - | 113.3 | 129 |
| Red oxides of iron | . | (a) | . | (a) | 443.6 | 419 |
| Other earth colours, except black | 196.5 | 243 | - | - | 196.5 | 243 |
| Essential 011s, other than turpentine | $\begin{aligned} & \text { Th. IDs. } \\ & 805.3 \end{aligned}$ | 622 88 | - | - | Th. l bs. 805.3 .. | $\begin{gathered} 622 \\ 86 \end{gathered}$ |
| Flavouring compounds; and flavouring essences and dyes for foods, etc. | .. | (a) | . | (a) | . | 3,576 |
|  | Th. cwts. |  |  |  | Th. cwts. |  |
| Iron oxides, chemically manufactured | $1,513.1$ | 990 | - | - | 1,513.1 | 990 |
| Inorganic plement colours (pure or reduced), dry and in pulp form, not elsewhere specified |  |  |  |  |  |  |
| Iron blues | 26.9 | 325 | - | - | 26.9 | 325 |
| Chromium compounds, including lead greens and zinc greens | 145.5 | 1,398 | - | - | 145.5 | 398 |
| Other | . | (a) | .. | (a) | 215.7 | 1,073 |
| Synthetic organic pigments (pure or reduced) |  |  |  |  |  |  |
| Pigment dyestuffs | . | (a) | . | (a) | 22.4 | 643 |
| Lakes and toners | .. | (a) | . | (a) | 89.2 | 1,049 |
| Lithopone, dry | $\underset{52.1}{T h . ~ t o n s ~}$ | 1,714 | - | - | $\begin{aligned} & \text { Th. tons } \\ & 52.1 \end{aligned}$ | 1,714 |

TABLE 23 (contd.)

|  | $\begin{aligned} & \text { England and } \\ & \text { Wales } \end{aligned}$ |  | Scotland |  | Great Britain |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Value | Quantity | Value | Quantity | Value |
|  | Th. cwts. | § 1000 | Th. cwts. | §'000 | Th. cwts. | \& 000 |
| Principal products (contd.) Other chemical products (contd. |  |  |  |  |  |  |
| Rosin size (for use in the paper trade) | 180.1 | 307 | - | - | 180.1 | 307 |
| sulphur | 464.5 | 379 | 6.5 | 3 | 471.0 | 382 |
|  | Th. tons |  |  |  | Th. tons |  |
| Sulphonated olls, other than sulphonated alcohols | 7.8 | 730 | - | - | 7.8 | 730 |
| Vitreous enamels and frits | Th. cwts. 206.6 | $\begin{array}{r} 753 \\ 78 \end{array}$ | $3-$ | - | $\begin{aligned} & \text { Th. cwts. } \\ & 206.6 \end{aligned}$ | 753 78 |
| Blacks, mineral and carbon, including vegetable, lanp, acetylene and bone black; and finishing materials than oils, (including gum, starch, etc.) not elsewhere specified | . | 471 | - | - | .. | 471 |
| Purple iron ore | Th. tons | 8 | - | - | $\begin{aligned} & \text { Th. tons } \\ & 4.1 \end{aligned}$ | 8 |
| Ground barytes | . | (a) | .. | (a) | 6.2 | 51 |
| Mastic and other adhesive cements; and pitch, other than coal tar pitch | . | 50 | - | - | .. | 50 |
| Other chemical products, including case hardening compounds | . | 1,014 | - | - | .. | 1,014 |
| Waste products | . | 153 | .. | 9 | .. | 162 |
| Work done for the trade or on commission (b) |  | 1,534 |  | 34 |  | 1,568 |
| Total principal products Other output |  | 151,14ぇ |  | 7,751 |  | 158,893 |
| coal tar and coal tar products | . | (a) | .. | (a) | .. | 1,184 |
| Drugs and pharmaceutical chemicals | $\begin{aligned} & \text { Th. } 1 \mathrm{bs} . \\ & \text { B,57. } \\ & \hline . \end{aligned}$ | $\begin{aligned} & 1,505 \\ & 150 \end{aligned}$ | - | - |  | $\begin{aligned} & 1,505 \\ & 150 \end{aligned}$ |
| Pharmaceutical preparations | . | 216 | - | - | .. | 216 |
| Dyes and dyesturfs. | Th. cwts. 293.6 | 1,115 | - | - | Th. cwts. 293.6 | 1,115 |
| Perfunery, cosmetics and tollet preparations | . | 324 | - | - | .. | 324 |
| Fertilisers | . | (a) | .. | (a) | $\begin{aligned} & \text { Th. tons. } \\ & 746.2 \end{aligned}$ | 9,148 |
| DS 41674/1 |  |  |  |  |  |  |


|  | ${ }_{\substack{\text { England } \\ \text { Wales }}}^{\text {and }}$ |  | Scotland |  | Great Britain |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Value | Quantity | Value | Quantity | Value |
|  | Th. cwts. | $\S^{\prime} 000$ |  | §'000 | Th. cwts. | £ 1000 |
| Other output (contd.) |  |  |  |  |  |  |
| Disinfectants, antiseptics, and sheep and cattle dips and dressings | .. | (a) | .. | (a) | 21.9 | 183 |
| Insecticides and weed killers | 189.. | 1,015 | - | - | 189.4 | 1,015 |
|  |  |  |  |  | Th. galls. |  |
| B1tuminous paints and bituminous solutions and emulsions for use as paint | .. | (a) | .. | (a) | $\mathrm{mm}_{\substack{1.018 \\ \text { tons } \\ 0.5}}^{\text {a }}$ | 88 38 |
|  |  |  |  |  | Th. cwts. |  |
| Paints, piments and extenders in paste form | 149.7 | 743 | - | - | 149.7 | 743 |
| Paints and painters' enamels, ready mixed | .. | $\dot{3}$ | - | - | .. | 33 |
| Varn1shes and lacquers, not pignented | .. | 41 | - | - | .. | 41 |
| Other products of the Paint and Varn1sh Trade | . | 338 | - | - | .. | 338 |
| Plastic goods and accessortes, except garments | .. | 603 | - | - | .. | 603 |
| Powders and essences for beverages (excluding fruit juices, solid soft drinks, and coffee and ch1cory essences and extracts | . | (a) | . | (a) | 7.6 | 424 |
|  | Th. galls. |  |  |  | Th. galls. |  |
| Soft drinks | 190 | 84 125 | - | - | 190 | ${ }^{84} 125$ |
| Plant and machinery, including parts | .. | 758 | - | - | .. | 758 |
| Manufactures of rubber, except garments | . | 508 | - | - | . | 508 |
|  | Th. cwts. |  | Th. cwts. |  | Th. cwts. |  |
| Washing and scouring materials, other than soap | 221.3 | 601 | 2.0 | 3 | 223.3 | 604 |
| Ink, sta1ns, dyes and gums for the leather and allied trades | . | 241 | - | - | .. | 241 |
|  | Th. tons |  |  |  | Th. tons |  |
| Concentrates, metallic residues, wastes, etc. | 13.5 | $\begin{aligned} & 94 \\ & 44 \end{aligned}$ | - | - | $13.5$ | 94 44 |
| Other goods and electricity, steam, gas and water sold | .. | 9,789 | . | 185 | .. | 9,974 |
| Work done (b) |  | 76 |  | - |  | 76 |
| Total |  | 181, 238 |  | 8,039 |  | 189,277 |

[^2]TABLE 24
Matertals
Alcohol
Ethyl alcohol
Duty paid
Duty free, other than
methylated splrits $\underset{\substack{\text { Methylated spirits } \\ \text { or mineralised) }}}{\text { (Industrial }}$

Methyl alcohol

Barytes
Benzoles, refined (in terms of
motor benzole)

Chromium ore
Coal tar, crude (on the bas1s of
5 per cent. water content), and
crude tar olls.
Iodine, cruce

Lead
Phosphate rock (mineral
phosphates of 1 ime)
Pyrites
Spent oxide
sulphur, crude
T1n
Toluoles, refined (in terms of
901 s toiucie)
zinc (spelter)
Essential oils
Packing ratertals

| $\underset{\substack{\text { England } \\ \text { Wales }}}{ }$ |  | Scotlend |  | Great Britain |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Quantity | Cost | Guantity | Cost | Quant1ty | Cost |
| $\underset{\substack{\text { Th. proof } \\ \text { galls. }}}{ }$ | \& 1000 |  | \&'000 | Th. proof galls. | §'000 |
| 96 | 997 | - | - | 96 | 997 |
| 22,017 | 2,912 | - | - | 22,077 | 2,912 |
|  |  |  |  | Th. bulk galls. |  |
| .. | (a) | .. | (a) | 1,321 | 291 |
| . | (a) | .. | (a) | Th. proof gallis. 17, 523 .0 | ${ }_{315}^{991}$ |
|  |  |  |  | Th. tons |  |
| .. | (a) | .. | (a) | 94.8 | 516 |
| Th. galls. |  |  |  | Th. galls. |  |
| 4,873 | 433 | - | - | 4,873 | 433 |
|  |  |  |  | Th. tons |  |
| .. | (a) | .. | (a) | 27.7 | 275 |
| .. | (a) | .. | (a) | 3.8 | 19 |
| Th. 1bs. |  |  |  | Th. 1 bs . |  |
| 243 | 104 | - | - | 243 | 104 |
| Th. tons |  | Th. tons |  | Th. tons |  |
| 17.0 | 1,542 | 0.3 | 32 | 17.3 | 1,574 |
| .. | (a) | .. | (a) | 166.7 | 561 |
| 77.0 | 208 | 33.3 | 108 | 110.3 | 316 |
| . | (a) | . | (a) | 153.2 | 321 |
| 288.3 | 2,523 | 27.7 | 259 | 296.0 | 2,782 |
| .. | (a) | .. | (a) | 0.5 | 256 |
| Th. galls. |  |  |  | Th. galls. |  |
| 682 | 93 | - | - | 682 | 93 |
| Th. tons |  |  |  | Th. tons |  |
| 45.0 | 2,851 | - | - | 45.0 | 2,851 |
| Th. 1 bs . |  |  |  | Th. 1 ls . |  |
| 1,701 | 1,094 | - | - | 1,701 | 1,094 |
| .. | 6,367 | .. | 242 | . | 6,609 |

## TABLE 24 (contd.)

| England and <br> Kales |  | Scotiand |  |  | Great Britain |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| euantity | cost | Quantity | cost | Quantity | cost |  |


| Materials (contd.) | Th. tons | $\Sigma^{\prime} 000$ | Th.tons | §'000 | Th. tons | \& 1000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Ace tone | 5.7 | 435 | 0.2 | 11 | 5.8 | 446 |
| Baux1te | .. | (a) | .. | (a) | 251.8 | 1,069 |
|  | Th. 1 bs . |  |  |  | Th. 1bs. |  |
| B1smuth | 324 | 178 | - | - | 324 | 178 |
|  | Th. cwts. |  |  |  | Th. cwts. |  |
| Bromine | 5.4 | 40 | - | - | 5.4 | 40 |
| Chlorine | . | (a) | .. | (a) | 557.4 | 468 |
|  | Th. tons |  |  |  | Th. tons |  |
| coal (other than for use as | 521.7 | 1,412 | - | - | 521.7 | 1,412 |
| Coke (other than for use as fuel) | .. | (a) | .. | (a) | 419.2 | 1,675 |
| Copper | 2.6 | 310 | - | - | 2.6 | 310 |
|  | Th. galls. |  | Th. galls. |  | Th. galls. |  |
| anthracene 011) | 38, 434 | 1,229 | 196 | 7 | 38,630 | 1,236 |
| Cresols or cresylic acld | .. | (a) | .. | (a) | 2,224 | 551 |
| Dye intermediates |  |  |  |  |  |  |
| Made from coal tar primary products | Th. cwts. | (a) | .. | (a) | Th. cwts. $25.1$ | 478 |
| Other | 1.2 | 33 | - | - | 1.2 | 33 |
| Formaldehyde, including solutions (In terms of 40 per cent. solution) | . | (a) | .. | (a) | Th. tons ${ }_{\text {46. }}$ | 990 |
| Glycerine |  |  |  |  | Th. cwts. |  |
| Crude | 6.7 | 47 | - | - | 6.7 | 47 |
| D1stilled | 7.8 | 54 | - | - | 7.8 | 54 |
| Unclassifted | 12.9 | 75 | - | - | 12.9 | 75 |
|  | Th. tons |  | Th. tons |  | Th. tons |  |
| Hydrochloric actd (as at $1.14 \mathrm{s.g}$. ) | 13.8 | 104 | 1.3 | 13 | 15.0 | 117 |
|  | Th. cwts. |  |  |  | Th. cwts. |  |
| Lactose | 0.5 | 4 | - | - | 0.5 | 4 |
|  | Th. tons |  |  |  | Th. tons |  |
| Limestone and 11me | 1.899.5 | 1,516 | 37.0 | 52 | 1,936.6 | 1,568 |
|  | Th. cwts. |  |  |  | Th. owts. |  |
| Molasses | 2, 164.3 | 1,438 | - | - | 2,164.3 | 1,438 |
| Naphthalene, all grades (in terms of $66^{\circ} \mathrm{C}$. salts) | .. | (a) | . | (a) | 174.5 | 113 |
|  |  |  |  |  | Th. tons |  |
| N1tr1c acid (on the basis of 100 per cent. ac1d) | .. | (a) | .. | (a) | 27.6 | 539 |
| Petroleum hydrocarbons, other than lubricating and fuel olls | . | (a) | . | (a) | Th. galls. <br> 4, 613 |  |
|  |  |  | . |  | 4,613 | 323 |

TAbLE 24 (contd.)

|  |
| :--- |
| Matertals (contd.) |
| Potassium compounds |
| Salt and orine (in terns of salt |
| content) |
| Socium compounds |

    Sodium compounds
    Blcarbonate
    Carbonate, Including soda
    crystalas and soda ash (on the
basis of $58^{\circ}$ ) soda
austic soda (on the basis of
Sulphurlc actd. (on the basts of
100 per cent. acta)
zinc dus
Rennet case In
Cellulose acetate flake
Hexamine
Carbollc ac1d, crude or crystal
Plasticisers
Phthalate esters
other
Ph thal 1c anhydride
Urea
Th1 ourea
Process papers
Wood flour
Plastic materials
Synthetic resins, incluadng
Dolymers (in terms of gross
wel ight)
Dolymers
wel ght)
Vinyl
Moulding and extrusion
(1nciuding impregnated)
(1ncluding
materlals

| Polyviny $\begin{array}{c}\text { chloride, } \\ \text { unplastic ised }\end{array}$ |
| :---: |

        other
    | England andWales |  | Scotland |  |
| :---: | :---: | :---: | :---: |
| quantity | cost | quantity |  |
| Th. ton | \& 1000 | Th. |  |


|  | England and wales |  | Scotland |  | Great Britain |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Quant1ty | Cost | Quant1ty | Cost | Quant1ty | Cost |
|  | Th. cwts. | §1000 |  | §1000 | Th. cwts. | § 1000 |
| Materials (contd.) <br> Plastic materials (contd.) Sheet, rod, tube, f11m, foil, blanks and profile shapes |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Acrylic | 10.1 | 251 | - | - | 10.1 | 251 |
| Polyvinyl chloride, Dlastic 1sed | 0.7 | $\stackrel{9}{3}$ | - | - | 0.7 | ${ }_{3}$ |
| other | .. | 229 | - | - | .. | 229 |
| Solutions, emulsions and dispersions (in terms of gross weight) | 194.5 | 795 | - | - | 194.55 | 795 |
| Cotton Dlece-goods | .. | (a) | . | (a) |  | 348 |
| Water charges | . | 431 | . | 22 | .. | 453 |
| All other purchased materials | .. | 46,578 | .. | 1,390 | .. | 47,967 |
| Fuel and electricity | Th. tons |  | Th. tons |  | Th. tons |  |
| coal | 3,021.3 | 7,898 | 171.0 | 442 | 3,192.3 | 8,340 |
| Coke | Th. $28 . \mathrm{T} .4 .4$ | 1,040 | $\text { Th. B. T. }{ }_{\text {T.U. }}^{1}$ | 25 | Th. B. T. 28.5 | 1,065 |
| Electricity purchased (b) | (kWW. rrs . ${ }^{\text {a }}$ |  | (kW. hrs . ) |  | (kW, hrs.) |  |
| From public supply | 1,098,661 | 3,528 | 129,011 | 388 | 1,227, 672 | 3,916 |
| From other sources | .. | (a) | .. | (a) | 108,611 | 321 |
| Electricity obtained from other works under the same ownership | 401,322 | 807 | - | - | 401,322 | 807 |
| Motor spirit (petrol) and derv. fuel | Th. galls. |  | Th. galls. |  | Th. galls. |  |
| Used for road vehicles | 2,698 | 244 | 373 | 33 | 3,071 | 277 |
| Used for other power purposes | .. | (a) | . | (a) | 814 | 36 |
| Other oll fuel (including creosote/Ditch m1xtures) | .. | (a) | . | (a) | $\begin{array}{r} 28,975 \\ \text { Th. therms } \end{array}$ | 1,062 |
|  |  |  |  |  |  | 176 |
| Gas purchased from dublic supply | .. | (a) | . | (a) |  | ${ }_{42}^{17}$ |
|  | Th. ${ }_{\text {therms }}$ |  |  |  | Th.therns <br> 1,673 | 39 |
| sources and gas obta1ned from other works under the same ownershid |  | 39 40 30 | - | - | Th. $\begin{gathered}\text { cu.ft. } \\ \text { i, } 959 \\ .0\end{gathered}$ | 4 30 |
| All other purchased fuel | .. | 328 | .. | 10 | .. | 338 |
| Total |  | 110, 902 |  | 5,011 |  | 115, 914 |
| Less Customs and Excise rebate and drawback receivable in respect of alcohol |  | 361 |  | - |  | 361 |
| Total (exclusive of customs and Exc se rebate and drawback receivable in respect of alcohol) |  | 110,541 |  | 5,011 |  | 115,552 |



CHEMICALS (GENERAL) COUNTRY TABLES Employment and remuneration

Larger establishments
(i) Private firms

TABLE 25

|  | England and Wales |  |  | Scotland |  |  | Great Britain |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { Average } \\ \text { number of } \\ \text { Operatives } \end{gathered}$ | Admin1technical $\underset{\text { and }}{\text { and }}$ employees <br> (a) | Total | $\begin{gathered} \text { Average } \\ \text { number of } \\ \text { operatives } \end{gathered}$ | Admin1strative, and clerical (a) | Total | $\begin{gathered} \text { Average } \\ \text { number of } \\ \text { Operatives } \end{gathered}$ | Admin1technical and clerical (a) | Total |
| Males <br> Under 18 All ages | $\begin{aligned} & 1,721 \\ & 60,590 \end{aligned}$ | $\begin{gathered} 650 \\ 16,890 \end{gathered}$ | $\begin{array}{r} 2,371 \\ 77,480 \end{array}$ | $\begin{array}{r} 65 \\ 2,613 \end{array}$ | $\begin{gathered} 25 \\ 611 \end{gathered}$ | $\begin{array}{r} 90 \\ 3,224 \end{array}$ | $\begin{gathered} 1,786 \\ 63,203 \end{gathered}$ | $\begin{array}{r} 675 \\ 17,501 \end{array}$ | $\begin{array}{r} 2,461 \\ 80,704 \end{array}$ |
| Females <br> Under 18 <br> All ages | $\begin{array}{r} 384 \\ 5,200 \end{array}$ | $\begin{aligned} & 1,464 \\ & 8,439 \end{aligned}$ | $\begin{array}{r} 1,848 \\ 13,639 \end{array}$ | $\begin{gathered} 18 \\ 288 \end{gathered}$ | 74 373 | 92 601 | $\begin{gathered} 402 \\ 5,428 \end{gathered}$ | $\begin{gathered} 1,538 \\ 8,812 \end{gathered}$ | $\begin{array}{r} 1,940 \\ 14,240 \end{array}$ |
| Total <br> Under 18 All ages | $\begin{aligned} & 2,105 \\ & 65,790 \end{aligned}$ | 2, $\begin{gathered}2,114 \\ 25,329(b)\end{gathered}$ | $\left\lvert\, \begin{gathered} 4,219 \\ y_{1}^{4}, 119 \\ \left(0^{\prime}\right)(0) \end{gathered}\right.$ | 2,841 | ${ }_{984(0)}^{99}$ | $\begin{aligned} & 182 \\ & \text { (3, } 882 \\ & (0)(c) \end{aligned}$ | 2,188 68,631 | $\underset{\substack{2,213 \\ 26,313 \\ \text { (b) }}}{ }$ |  |
| Tota remuneration | $\begin{array}{r} \Sigma^{\prime} 1000 \\ 22,523 \end{array}$ | $\begin{aligned} & \AA^{\prime} 000 \\ & 12,143 \end{aligned}$ | $\begin{array}{r} 21000 \\ 34,666 \end{array}$ | $\begin{array}{r} 8,000 \\ 893 \end{array}$ | $\begin{aligned} & 8.000 \\ & 381 \end{aligned}$ | $\begin{aligned} & 81000 \\ & 1,274 \end{aligned}$ | $\begin{array}{r} 8^{\prime} 000 \\ 23,416 \end{array}$ | $\begin{gathered} \Omega^{\prime} 000 \\ 12,524 \end{gathered}$ | $\begin{array}{r} £^{\prime} 000 \\ 35,940 \end{array}$ |

(a) Number at September 25, 1948 .
 In addition to the employees in the above table the private firms in this trade employed 18 female outworkers,
(all in England and Wales), the amount paid to them peing $\AA 2,000$. (ii) Government Departments

TABLE 25 (contd.)

|  | England and wales |  |  | Scotland |  |  | Great Britain |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { Average } \\ \text { number of } \\ \text { operatives } \end{gathered}$ | $\begin{array}{\|l\|} \hline \text { Adminl- } \\ \text { strat1ve, } \\ \text { techn1cal } \\ \text { and } \\ \text { cler1cal } \\ \text { employees } \\ \text { (a) } \\ \hline \end{array}$ | Total | $\begin{gathered} \text { Average } \\ \text { number of } \\ \text { Operatives } \end{gathered}$ | Admin1- strative, technical and clercal employees (a) | Total | Average number or oderative | Admini- strat1ve, techn1cal and cler1cal employees (a) | Total |
| Males Under 18 All ages | $\begin{array}{r} 45 \\ 3,032 \end{array}$ | $\begin{aligned} & 11 \\ & 466 \end{aligned}$ | $\begin{array}{r} 56 \\ 3,498 \end{array}$ | $1,642^{8}$ | ${ }_{66}^{1}$ | $1,708^{9}$ | $\begin{array}{r} 53 \\ 4,674 \end{array}$ | $\begin{gathered} 12 \\ 532 \end{gathered}$ | $\begin{aligned} & 5,206 \\ & 5,20 \end{aligned}$ |
| Females Under 18 All ages | $\begin{aligned} & 10 \\ & 120 \end{aligned}$ | ${ }_{8}^{9}$ | $\begin{aligned} & 19 \\ & 128 \end{aligned}$ | $\stackrel{2}{21}$ | $\begin{array}{r} 5 \\ 203 \end{array}$ | $244$ | $\begin{aligned} & \frac{12}{161} \end{aligned}$ | ${ }_{211}^{14}$ | 26 372 |
| Total <br> Under 18 <br> All ages | 55 3,152 | $\begin{array}{r} 20 \\ 474 \\ \hline \end{array}$ | $\begin{aligned} & 75(\mathrm{r}) \\ & 3,6266 \end{aligned}$ | $\begin{array}{r} 10 \\ 1,683 \end{array}$ | 269 | $\begin{gathered} 16 \\ 1,952 \end{gathered}(0)$ | $4,655$ | \% $\begin{array}{r}26 \\ 743\end{array}$ | $\begin{array}{r} 911 \\ 5,578(b) \end{array}$ |
| Total remuneration | $\begin{aligned} & \mathbf{S}^{\prime}, 000 \\ & 1,099 \end{aligned}$ | $\begin{aligned} & 81000 \\ & 232 \end{aligned}$ | $\begin{aligned} & \text { \& }^{\prime} 000 \\ & 1,331 \end{aligned}$ | $\begin{array}{r} \text { ' }^{\prime} 000 \\ 539 \end{array}$ | $\begin{aligned} & \Sigma_{1}, 000 \\ & i_{141} \end{aligned}$ | $\begin{array}{r} \text { S'000 } \\ 679 \end{array}$ | $\begin{aligned} & 81000 \\ & 1,637 \end{aligned}$ | $\begin{aligned} & 81000 \\ & 373 \end{aligned}$ | $\begin{aligned} & \varepsilon_{1}^{1000} \\ & 2,010 \end{aligned}$ |


In addition to the employess in the above table the Government Departments in this trade employed 3 male
outworkers (all in scotiand), the amount paid to them being less than ${ }_{\text {a }} .500$.
DS 41674/1

| $2 / E / 60$ | Monthly index of employment of operatives: Larger establishments (average employment in $1948-100$ ) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TABLE 26 |  |  |  |  |  |  |  |
|  | Monthly index (a) |  |  | Month | Monthly index (a) |  |  |
| Month | England and Wales | Scotland | $\begin{gathered} \text { Great } \\ \text { Britain } \end{gathered}$ |  | England and Wales | Scotland | $\begin{gathered} \text { Great } \\ \text { Britain } \end{gathered}$ |
| 1948 |  |  |  | 1948 |  |  |  |
| January | 99.3 | 97.5 | 99.2 | August | 99.9 | 99.5 | 99.9 |
| February | 100.0 | 99.6 | 100.0 | September | 99.7 | 99.4 | 99.7 |
| March | 100.8 | 100.2 | 100.8 | october | 99.7 | 99.2 | 99.7 |
| April | 100.8 | 101.2 | 100.9 | November | 99.8 | 100.1 | 99.8 |
| May | 101.5 | 100.7 | 101.5 | December | 99.3 | 102.3 | 99.5 |
| june | 99.7 | 100.1 | 99.7 | Percentage employ- |  |  |  |
| July | 99.4 | 100.1 | 99.4 | ment in this trade covered by the index | 81.0 | 64.9 | 80.0 |

(a) The index numbers are calculated from the number of operatives employed in one week in each month
returned by larger establishments that made returns for the calendar year 1948.

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[^0]:    (a) Of this total $£ 22,801,000$ was recorded as divided between $\Omega 3,816,000$ for export and $£ 18,985,000$ for other sales.

[^1]:    (a) Excluding Customs and Excise rebates and drawbacks receivable in respect of any materials on which
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[^2]:    (a) owing to the risk of disclosure of information relating to individual firms separate figures cannot be given.
    (b) Amount charged.

