

A P P E N D I X 1

CONVERSION FACTORS USED IN THIS REPORT

The conversion factors given below have been approved by the Enemy Oil Committee and are those commonly used for general calculations.

Basis.- One metric ton of 1,000 kilograms is divided by the volume of one barrel (159 liters) multiplied by the density of the oil at 60° F (15.5° C). This reduces to the factor of 6.3 divided by the density of the oil.

<u>Product</u>	<u>Bbls/Metric Ton</u>
Propane	12.4
Butanes	11.0
Natural Gasoline	9.16
Aviation Gasoline	8.5
Motor Gasoline	8.5
Motor Benzol (90 per cent).	7.2
Ethyl Alcohol	8.0
Methyl Alcohol	8.0
Kerosene.	7.9
Diesel Oil	7.2
Lube Oils	7.0
Residual Fuel	6.5
Paraffin Wax (a).	7.5
Asphalt	6.0
Synthetics (b).	8.0
Shale Oil	7.0
All products average (b).	7.5
Crude Oils (c).	7.0

(a) The factor of 7.5 bbls/ton of wax appears to be the best figure for the wax dissolved in oil. The density of solid wax varies with the melting point from about 0.88 to 0.95, and averages about 7.0 bbls/metric ton.

(b) Does not take into account liquefiable gases.

(c) Gravity of crudes vary considerably. In view of the variation from field to field it usually will be preferable to use field gravities when available.

A P P E N D I X 2

ANALYSES OF GERMAN CRUDE OILS (a)

<u>Field</u> →	<u>Oberg</u>	<u>Wietze</u>	<u>Wietze</u>	<u>Hanigsen</u>	<u>Nienhagen</u>
Geologic Age	M. Dogger Jur.	Keuper, Up. Trias.	Senon. U. Cret.	Rhaetic- U. Trias.	Wealden- L. Cret.
Depth in Feet	722 -1,640	853 -1,115	426 -623	328 -492	1,082 -2,624
Sp. Grav.	0.852	0.881	0.923	0.905	0.910
A.P.I. ^o	34.6	29.	20.3	24.9	24.
% S.	0.36	0.65	1.22	0.84	0.78
Viscosity Saybolt at 100° F. (Sec.)	53	87	480	185	250
Light Gasoline %	5.8	1.6	0.6	1.3	0.5
Total Gasoline & Naphtha %	24.1	13.7	6.4	12.5	7.6
Kerosene distil- late %	9.7	9.9	2.8	3.3	3.3
Gas Oil %	16.3	18.1	15.1	17.5	18.
Non-viscous Lub.. distillate %	10.4	13.1	9.8	10.	10.4
Medium lub. distillate %	7.9	8.6	8.8	8.2	7.7
Viscous Lub. distillate %	-	-	8.6	8.7	4.1
Residuum %	30.9	36.1	46.9	38.1	48.7

(a) Data from U. S. Bureau Mines Bulletin 401.

A P P E N D I X 3

GERMAN CRUDE OIL ANALYSES (a)

Two producing areas in Germany, one at Nienhagen and the other at Ödesse yield 10 per cent of 400° F. endpoint gasoline and 27 per cent of 410° F. endpoint gasoline.

	Nienhagen	Ödesse
API gravity	26.6	34.5
Sulphur	0.5	0.3
Viscosity Furol at 77° F. (sec.)	-	12
Cold Test, deg. F.	-	15
B.S. & W., per cent	1.2	0.4
Water, per cent	1.0	-
Coke, per cent by weight	4.6	3.0
Initial boiling point	230	140

A.S.T.M. 100 cc. Distillation

<u>P e r c e n t o v e r :</u>		<u>Deg. F.</u>
5	300	190
10	384	248
20	497	346
30	588	440
40	640	528
50	662	607
60	674	672
70	680	698
80	688	712
90	698	724
95	718	728
Endpoint	718	740
Per cent over at 400° F.	10.0	-
Per cent over at 410° F.	11.0	27.0
Per cent over at 437° F.	13.0	29.5
Per cent over at 572° F.	27.0	45.0

A P P E N D I X 4

ANALYSES OF RODEWALD CRUDE

Sample from the Cornbrash

Specific Gravity 15° .940
Water 1.4%
NZ 1.34%
Hard Asphalt 1.10%

Engler Distillation

160°		First Drops
50°		
75°		
100°	1%	Gasoline
125°		
150°		
175°	1%	
200°	2.6%	
225°	5.5%	14% Kerosene
250°	9.5%	
275°	15%	
300°	20%	15% Gas oil
325°	30%	
350°		

Sample from the Wealden

Specific Gravity 15° .942
Water 2%
NZ 1.99%
Hard Asphalt 0.13%

Engler Distillation

135°		First Drops
50°		
75°		
100°		2.5% Gasoline
125°		
150°	1.2%	
175°	2.5%	
200°	4.3%	
225°	7.5%	14.5% Kerosene
250°	12%	
275°	17%	
300°	24%	15% Gas oil
325°	32%	
350°		

A P P E N D I X 5

ANALYSES OF OBERG CRUDE

Gravity ° A.P.I.	34.8
Viscosity, S.I. at 100°F	48"
Water and Sediment	Trace
Sulphur %	0.35
Carbon Residue, Conradson %	1.63
Distillation, Hempel °F	
Initial B.P.	73 °F
10%	252
20%	348
30%	445
34%	500

A P P E N D I X 6

ANALYSES OF REITBROOK CRUDE

Specific Gravity	.940
Water and Mud	3.2%
NZ	0.07
Hard Asphalt	1.0
Paraffin	0.53%
Sulphur	1.7%
<u>Engler Distillation</u>	
116°	First drops
150°	2.3 2.3% Gasoline
275°	15.3 13.0% Kerosene
325°	22.3 7.0% Gas oil
350°	30.3

A P P E N D I X 7GERMAN FIRMS SPECIALIZING IN OIL FIELD DRILLING EQUIPMENT

<u>F i r m</u>	<u>P l a c e</u>	<u>R e m a r k s</u>
Demag A.G.	Duisburg	Specializes in rotary drilling equipment.
Deutsche Schachtbau A.G.	Nordhausen	
Deutsche Tiefbohr A.G.	Erkelenz	
Mannesmann Röhrenwerke A.G.	Düsseldorf	Specializes in seamless pipe
Anton Raky A.G.	Salzgitter	
Thyssen Werke A.G.	Düsseldorf	Specializes in seamless pipe
Tiefbau und Kälte Industrie A.G.	Nordhausen	
Vereinigte Stahlwerke A.G.	Düsseldorf	Specializes in seamless pipe
Weise & Monskie A.G.	Halle	Specializes in valves and pumps

A P P E N D I X 8

PLANTS ENGAGED IN THE REGENERATION OF USED LUBRICANTS

<u>F I R M</u>	<u>P L A C E</u>
Gebr. Avenarius Chemische Fabrik	Algesheim
Deutsche Viscobil Öl A.G.	Berlin-Westhaven
Mineralöl Raffinerie Adolf Müller	Berlin, N. 4, Gartenstrasse
Mineralöl Raffinerie Teutonia T.m.b.H.	Berlin, Adlershof, Rudower Chaussee
Pintsch Öl G.m.b.H.	Berlin-Britz
Waremo G.m.b.H.	Berlin, N.W. 87, Waldstrasse
Mineralöl Raffinerie vorm. Aug. Korff	Bremen
Greiner & Koblitz	Breslau, 24
Mineralöl Aufbereitung Weiss & Co.	Hamburg-Wilhelmsburg
Chemische Fabrik G. Drengwitz	Insterburg, East Prussia
Karl Pohlman Mineralöl Raffinerie Korbach	Kassel
Bremer Chemische Fabrik	Klafterbach im Erzgebirge
Franz Voittländer	Kronach, Bavaria
Mineralöl Raffinerie	Munich-Ottobrunn
Spengemann & Co.	Nordhausen
Dor Mineralöl Raffinerie Rothert & Co.	Opladen-Neukronenburg
Gottlob Epple	Stuttgart-Bad Cannstatt
Südöl Mineralöl Raffinerie	Stuttgart, 13

A P P E N D I X 9

W.I.F.O. BRANCH OFFICES AND PERSONNEL

The branches (Aussenstellen) are offices generally located in the vicinity of a strategic depot in Germany or near the main bulk storage installations in occupied territories.

A Branch Manager is responsible for:

1. Operating main depots in his area in accordance with orders received from the Berlin W.I.F.O. office.
2. Supplying the requirements of the Armed Forces according to technical principles laid down by W.I.F.O., Berlin and directions received from the local Higher Command (Ober-Quartiermeister Dept.) (Returns are rendered to both).
 - i. Directs the construction or acquisition and operation of G.H.Q. depots.
 - ii. Controls the oil transport facilities and arranges for movements with the appropriate rail or water authorities.
 - iii. Controls the W.I.F.O. personnel and arranges for guards or other labours required.

The senior staff consists of:

A Manager
An Administrative Assistant Manager
A Technical Assistant Manager
A Traffic Manager

The number of subordinate assistants will vary with the constructional and operational activity in the area concerned at any particular time.

PROMINENT W.I.F.O. PERSONNEL

Leading figures in Germany.- President of the Supervisory Board: Ministerialrat Godlewski (1940): Generaldirector Baurat a.D. Wehling (1942): Direktor Attig, Director Dr. Gramsch, Director Brankel, Prokurist Norbert Hartung, Prokurist Dr. Kliemstedt, Prokurist W. Körfigen, Prokurist Levsen, Prokurist Plote, Dpl. Ing. Braun, Elektro-Ing Seiberlich; Chiefs of Departments in Head Office: Ing. Kurt Bolz, Dipl. Ing. Kurt Jogun (Feb 41), Dr. Ritz, Dr. Eiflender; Frau Dr. Kessel (in the personnel department).

Leading figures at Vienna-Lobau.- Wagner, Rah, Ungar.

Former leading figures in France.- Erwin Langendorf, Kurt Traxel, Hans Schiemann, Hermann Hiebert, Dipl. Ing. Otto Walter, K. Koffmann, Otto Loth, Erwin Reatz.

In Belgium.- E. Damke, W. Richter (Jan. '43).

A P P E N D I X 10

DEFINITELY CONFIRMED W.I.F.O. AUSSENSTELLEN
(BRANCH OFFICES) IN GERMANY

Wehrkreise

V	Amstetten near Geislingen (Ulm area)
III	Berlin-Spandau
VIII	Breslau
XI	Derben-Ferchland
I	Druehnen: see Hegeberg
XIII	Ebrach-bei-Bamberg (12, Adolf Hitler Strasse)
XI	Eickeloh
X	Farge
XI	Ferchland: see Derben
VII	Freiham near Munich = Krailling
X	Hamburg-Harburg
I	Hegeberg-Druehnen (near Königsberg)
IV or X	Heidenau (near Dresden or Hamburg)
IX	Heilligenstadt in Eichsfeld (near Kassel)
VI	Herbern (special work of unknown nature)
VIII	Heydebreck (Upper Silesia)
XI	Hitzacker
I	Königsberg: see Hegeberg
VII	Krailling bei Planegg: see Freiham
VIII	Liegnitz: see Vordeheide
XI	Leopoldshall: see Stassfurt
VIII	Mährisch-Schönberg
IX	München-Bernsdorf
VII	Munich: see Freiham
X	Nienburg (Schaferhof)
VII	Neuburg an der Donau (Unterhausen)
VI	Neuenheerse
IV	Niedersachswerfen (? Tel plant)
VI	Ruthen-Mohne
XI	Stassfurt-Leopoldshall
II	Stettin
VI	Unterhausen: see Neuburg
VII	Unterpfaffenhofen: see Freiham
VIII	Vordeheide bei Liegnitz
II	Zarrentin (Mecklenburg)

A P P E N D I X 11

SOURCES OF PORT AND HARBOR MAPS FOR GERMANY

Maps of ports and harbors having importance for petroleum handling in Germany are not reproduced in this report, inasmuch as qualified persons have ready access to detailed charts published by the Hydrographic Office, Bureau of Operations, Navy Department, at Washington and charts of the British Admiralty. For convenience, references are given here to maps of various ports. In the following list, BA designates the British Admiralty, HO the Hydrographic Office.

<u>Port</u>	<u>Chart Number</u>	<u>T i t l e</u>
Bremen Bremerhaven	HO 4905	Weser River, Hohe Weg Light to Bremen. Plans: Bremerhaven and Wessermunde; Bremen.
Cuxhaven	BA 1875	Jade River to Norder Piep (Channel), including the entrance to Jade, Weser, Elbe Rivers.
Hamburg	HO 4909	Elbe River, Brunsbuttelkoog to Hamburg. Plan: Hamburg, Altona, and Harburg Harbors.
Emden	BA 3509	River Ems.
Kaiser Wilhelm Canal (Kiel)	HO 4923	Kaiser Wilhelm Canal (Kiel Canal).
	BA 2842a	Baltic Sea, Western Sheet
	BA 33	Eckernforder Bucht and Kiel Fjord.
Stettin	BA 185	Port Swinemunde; and approaches to Stettin. Plans: Port Swinemunde; Stettin.
Wilhelmshaven	BA 3346	Jade River and Weser River entrance.

A P P E N D I X 12

JURISDICTION OF THE REICHSTELLE FÜR MINERALÖL

The Reichsstelle für Mineralöl (Reich Board of Mineral Oil) has jurisdiction to supervise and regulate transactions in the following goods:

1. Mineral oil (crude).
2. Benzine of any kind, including substitutes for turpentine oil (test-benzine).
3. Lighting oil (kerosene).
4. Gas and diesel oil.
5. Mineral lubricating oil (any kind, including transformer oil, etc.).
6. Heating oil.
7. Lignite, slate, peat-tar oils; resin oils.
8. Tar-like residues of the distillation of mineral oils, and of lignite, slate, and peat-tar oils, containing paraffin, if lighter than water.
9. Sauerharz (residues of chemical purification of mineral oils, etc.).
10. Ozokerite.
11. Montan bitumen.
12. Pitch-like residues of the distillation of mineral oils, of lignite, slate, and peat-tar oils, if heavier than water (e.g., petrol-asphalt).
13. Asphalt, asphaltite, asphalt mastic.
14. Lignite, slate, peat-tar, dagert, and other tars.
15. Lignite, slate, peat-pitch, montan-pitch, and other pitch.
16. Oil gas tar.
17. Coal tar.
18. Coal pitch.
19. Coal tar oils--light (e.g., benzol, cumol, toluol, xylol).
20. Other oil-like products of distillation of coal tar oils and heavy coal tar oils (e.g., anthrazen oil, carbol oil, creosote oil).
21. Gas-like fuels.
22. Paraffin--raw and cleaned.
23. Ointments, of paraffin.
24. Axle grease.
25. Other lubricants produced with the use of oils and fats, whether solid or liquid.

A P P E N D I X 13

INTERNAL ORGANIZATION OF THE MINERAL OIL ECONOMY DIVISION
IN THE MINISTRY OF ECONOMICS (a)

(Abteilung Mineralölwirtschaft in der Hauptabteilung II
des Reichswirtschaftsministeriums)

Leader: von Heemskerck

Sub-Section 1: Questions of defense economics, general problems of the
(von Heemskerck) section, quota problems.

Sub-Section 2: (a) General questions of the oil economy.
(Major A. D. (b) Production (including planning).
Rosenkrantz) (c) Imports and exports.
(d) Market regulations, customs duties, taxes, and freight.
(e) Subsidies, matters pertaining to oil tanks.
(f) Chemical and technical problems of production and use.
(g) Special problems of supply.

Sub-Section 3: Crude oil economy; concessions and borings.
(Prof. Dr.
Francke)

Sub-Section 4: (a) Planning of storage tanks (technical commission).
(Olr. Biese) (b) Transportation.
(c) Tank resources of the economy.
(d) Reserves.
(e) Supervision of constructions and storage tanks of the
Reich.

Sub-Section 5: Raw materials and other materials used in the production of
(Dr. Grund) mineral oil products.

(a) Based on Thümen, Jahrbuch der Deutschen Mineralölwirtschaft, 1939-1940.

A P P E N D I X 14

INTERNAL ORGANIZATION OF THE REICHSTELLE FÜR MINERALÖL
(REICH BOARD FOR MINERAL OIL) AND ITS PERSONNEL (a)

Location: Krausenstrasse, 22-24, Berlin SW 68.

Leader: Reich Commissioner Dr. E. R. Fischer (until 1943, Bergassessor Raab).

Beirat (council): Direktor Hans Brockhans (Deurag)
Direktor Hans Gröber
Direktor Franz Klasen (Deutsch-Amerikanische Petroleum-Ges.)
Direktor Dr. Walter Kruspig (Rhenania-Ossag)
Direktor Carl Müller (Rütgerswerke A.G.)
Direktor Oskar Ruperti (Benzolverband G.m.b.H.)
Direktor Dr. Heinrich Schmitz (J. & A. Homberg)

Main Division I (Hauptabteilung I)
(Internal Administration) Leader: Taube

Section 1. General economic matters	Leader: Taube
Section 2. Personnel matters	Leader: Taube
Section 3. Economics and publicity	Leader: Dr. Beerboom
Section 4. Accountancy	Leader: von Tein
Section 5. Procurements	Leader: Thielmann
Section 6. Organization, registration, telephone messengers	Leader: Seraphim
Section 7. Audit	Leader: Taube

Main Division II (Hauptabteilung II)
(Foreign Exchange Administration) Leader: Budezies

Section 1. Foreign Exchange certificates	Leader: Straube
	Assistant: Schellhorn
Section 2. Accounts	Leader: Röhrbein
Section 3. Card indexes	Leader: Vethacke
Section 4. Exports	Leader: Thielemann
Section 5. Price control	Leader: Dr. Sartisson
Section 6. Criminal matters	Leader: Budezies
	In Charge: Reichert

Main Division III (Hauptabteilung III)
(Raw materials and technical matters)
Leader: Now probably Dr. Fischer (Formerly Raab)

a) <u>Raw Material Allocation</u>	Leader: Dr. Richstein
1. Light coal tar oils	Leader: Dr. Richstein
2. Raw tar	Leader: Dr. Richstein
3. Used oil	Leader: Neuenfeldt
4. Miscellaneous	Leader: Dr. Richstein
b) <u>Technical Matters</u>	Leader: Dr. von Zezschwitz
1. Technical Section, substitute materials, advisory functions, etc.	Leader: Dr. von Zezschwitz
2. Laboratory	Leader: Dr. von Zezschwitz

Main Division IV (Hauptabteilung IV)

Levies, etc.

Leader: ?

(a) Based on Thümen, Jahrbuch der deutschen Mineralölwirtschaft, 1939-1940.

A P P E N D I X 15

ORGANIZATION AND LEADERS OF THE OIL GROUPS

Producers of mineral oil belong to the Economic Group Fuel, (Wirtschaftsgruppe Kraftstoffindustrie), which is a division of the Reich Group Industry (Reichsgruppe Industrie). The Economic Group Fuel is further divided into the Trade Group Mineral Oil Production (Fachgruppe Erdölgewinnung), the Trade Division Reconditioning of Used Oil (Fachabteilung Altölaufarbeitung), and the Trade Division Bitumen and Bitumen Emulsions (Fachabteilung Bitumen und Bitumenemulsionen).

Wholesale Distributors belong to the Trade Group Mineral Oil (Fachgruppe Mineralöl) of the Economic Group Wholesale Import and Export Trade (Wirtschaftsgruppe Gross- Ein- und Ausführhandel) which, in turn, is a subdivision of the Reich Group Commerce (Reichsgruppe Handel). The Trade Group Mineral Oil has three sub-trade groups:

1. Sub-Trade Group Mineral Oil and Mineral Oil Products (Fachuntergruppe Mineralöl und Mineralölerzeugnisse) is the association of producers and importers of mineral oil and mineral oil products who are also distributors.

2. Sub-Trade Group Fuel Wholesalers (Fachuntergruppe Kraftstoffgrosshandel), association of wholesalers who are not importers or producers.

3. Sub-Trade Group Wholesalers of Lubricants (Fachuntergruppe Schmierstoff-grosshandel), association of wholesalers who are not importers or producers.

Retailers belong to the Trade Division Fuels and Garages (Fachabteilung Kraftstoffe und Garagen of the Trade Group Motor Vehicles, Fuels, and Garages (Fachgruppe Kraftfahrzeuge, Kraftstoffe, Garagen) in the Economic Group Retail Trade (Wirtschaftsgruppe Einzelhandel) of the Reich Group Commerce (Reichsgruppe Handel).

The chart on page 299 indicates the interdependence of the groups and their subdivisions.

The location and leading personnel of these groups are as follows: (a)

1. Economic Group Motor Fuel Industry (Wirtschaftsgruppe Kraftstoffindustrie)

Location: Dorotheenstrasse 35, Berlin NW 7.

Leader: Dr. E.R. Fischer of I.G. Farbenindustrie (who became leader of the Reich Board for Mineral Oil; no information available whether he retained his post as leader of the Economic Group).

Manager: (Geschäftsführer): Dr. jur. F.W. Ziervogel.

Advisory Board (Beirat):

Direktor Hans Brochhaus of Gewerkschaft Elwerath

Direktor Dr. Heinz Bätefisch, Ammoniakwerke Merseburg G.m.b.H.

Generaldirektor Hans Gröber, Deutsche Erdöl A.G.

Direktor Karl Gross, Deutsche Petroleum A.G.

Bergwerksdirektor Kauert, Gelsenkirchener Bergwerks A.G.

E.v. Klass, Benzol-Verband G.m.b.H.

Fritz Kranefuss, Braunkohle-Benzin A.G.

Generaldirektor Dr. Kruspig, Rhenania-Ossag Mineralölwerke A.G.

Prof. Dr. Friedr. Martin, Ruhrbenzin A.G.

Generaldirektor Dr. Ing. e.h. Dipl. Ing. Pott, (first deputy to leader)

Direktor Dr. Ruperti, Benzol-Verband G.m.b.H.

Generaldirektor Dr. Ing. e.h. Tangelmann, Bergwerksges. Hibernia A.G.

Regional foremen (Bezirksobermänner) and other regional representatives

(a) The location of the offices may have been changed due to air-raid damage and evacuation; the personnel data are based on the 1939-1940 edition of Thümen, Jahrbuch der deutschen Mineralölwirtschaft.

of the Wirtschaftsgruppe Kraftstoffindustrie:

<u>Region (Bezirk)</u>	<u>Foreman or other representative</u>
Silesia	Bezirksgruppe Oberschlesien of the Fachgruppe Steinkohlenbergbau, Gleiwitz (O.-S).
Nordmark	Dr. Walter Kruspig.
Lower Saxony	Fachgruppe Erdölgewinnung; Bergwerksdirektor K. Grosse
Düsseldorf	Bergwerksdirektor Herbert Kauert.
Westphalia) and Lippe)	Walter Tangelmann, (Essener Steinkohlenbergwerke A.G. Essen).
Hesse	Arbeitsgemeinschaft with the Wirtschaftsgruppe Bergbau; representation: Bezirksgruppe Wetzlar of the Fachgruppe Eisenerzbergbau, Wetzlar.
Mittelelhbe	Bergwerksdirektor Vorbrodt (Kohlenveredlung u. Schwefelwerke).
Thüringia	Oskar Gerth (Deutsche Petroleum A.G.).
Saxony	Direktor Dr. Ehlers (Aktiengesellschaft Sächsische Werke).
Saarpfalz	Representation: Bezirksgruppe Saar of the Fachgruppe Steinkohlenbergbau, Saarbrücken.

2. Trade Group Mineral Oil Production (Fachgruppe Erdölgewinnung (a)).

Location: Wietze (Kr. Celle)

Leader: G. Schlicht

Manager: Dipl. Ing. Direktor H. Hubrig

Advisory Board:

W. Zentgraf

L. Rohe

Dr. Ing. O. Deicher

Dr. C. Hauswirth

K. Bayer

H. Conzen

Hermann V. Reutenkranz

K. Grosse (the former leader)

J. Jung

J. Lindloff

H. Koller

3. Trade Department Regeneration of Used Oil (Fachabteilung Altölaufarbeitung).

Location: Rosenheimer Landstrasse 6, München-Ottobrunn.

Manager and Obmann (foreman): L. Zerzog.

4. Trade Department Bitumen and Bitumen Emulsions (Fachabteilung Bitumen und Bitumenemulsionen)

Location: Neue Wilhelmstrasse 1, Berlin NW 7.

Foreman (Obmann): Generaldirektor Dr. Kruspig

Manager: Dr. Karl Heinrich

5. Trade Group Mineral Oil (Fachgruppe Mineralöl)

Location: Tiergartenstrasse 12a, Berlin W 35.

Leader: Gustav Seitz, Direktor of Nitag, Deutsche Treibstoffe A.G.

Head Manager: Hermann v. Dewitz

Advisory Board:

R. Bechem (Olfabrik und Raffinerie Carl Bechem G.m.b.H.)

Konsul F. Boie (Ernst Boie, Lübeck)

Fr. Breme (Deutsch-Amerikanische Petroleum Gesellschaft)

E. v. Klass (Benzol-Verband A.G.)

Dr. W. Kruspig (Rhenania-Ossag)

Trade Group Mineral Oil (Cont'd).

Senator a. D. Laue (Bick & Laue, Bremen)
Dr. H. Schmitz (I. & A. Homberg)
Dr. E. F. Stoeck (Deutsche Gasolin Aktiengesellschaft)

Regional foremen (Bezirksobleute) of the Fachgruppe Mineralöl

<u>Region</u>	<u>Foreman</u>
Ostpreussen-Königsberg	Otto Casati (Casati & Lederhausen)
Schlesien-Breslau	Alfred Mosig (Fabig & Kühn G.m.b.H.)
Brandenburg-Berlin	Custav Seitz (Nitag Deutsche Treibstoffe A.G.)
Pommern-Stettin	Max Kuck (G. Krokisius, Stettin)
Nordmark-Hamburg	Fr. Breme (Deutsch-Amerikanische Petroleum Ges. A.G.)
Bremen-Bremen	Fr. Goldgrabe jr. (Goldgrabe & Scheft, Bremen)
Niedersachsen-Hannover	Edmund Meyer (Gebr. Meyer A.G.)
Westfalen-Düsseldorf	Dr. Heinr. Schmitz (J. & A. Homberg, Wuppertal-Barmen)
Hessen-Frankfurt a.M.	G. Teetzmann (Gebr. Meurer, Frankfurt)
Rheinland-Köln	G. Wetzel (Bauer, Gaebel & Co.)
Mittelelbe-Magdeburg	Otto Andreas (A. May, Erfurt)
Mitteldeutschland-Weimar	Otto Andreas
Sachsen-Dresden	Erich Kammel (Everth & Co.)
Bavarn-München	Theodor Klüber (Fa. Theodor Klüber, München)
Südwestdeutschland-Karlsruhe	Erich Rempel (Minera, Mannheim-Rheinau)
Südwestdeutschland-Stuttgart	Dipl. Ing. Biesenberger (Schwaben-garage, Stuttgart)
Saarpfalz-Saarbrücken	A. Dreesen (Olwerke Bous G.m.b.H. Buss-Saar)
Oberdonau-Linz	Franz Doppler (Fr. Doppler, Wels-Oberdonau)
Westfalen-Dortmund	E. R. Schmidt (Benzolverband Bochum G.m.b.H.)

6. Sub-Trade Group Mineral Oil and Mineral Oil Products
(Fachuntergruppe Mineralöl und Mineralölerzeugnisse)

Location: Kurfürstendamm 215, Berlin W 15

Leader: Fr. Breme (Director of Deutsch-Amerikanische Petroleum-Gesellschaft)

Manager: Dr. Köhn, Berlin

Advisory Board:

Fr. Breme

G. Bugisch, (Director of Olex)

E. v. Klass (Director of Benzol-Verband A.G.)

Gustav H. Lombard (Director of Meranger Garagen, Berlin-Schöneberg)

Dr. E. F. Schliemann (Schliemanns Oelwerke, Hamburg)

Dr. E. F. Stoeck (Director of Deutsche Gasolin Aktiengesellschaft, Berlin-Charlottenburg)

7. Sub-Trade Group Motor Fuel Wholesale Trade (Fachuntergruppe Kraftstoffgrosshandel)

Location: Tiergartenstrasse 12a, Berlin W 35.

Leader: Dr. Heinrich Schmitz (I. & A. Homberg, Wuppertal-Barmen)

Manager: Dr. Rudolf Schulze, Berlin

Advisory Board:

O. Andreas (A. May, Erfurt)

Konsul F. Boie (Ernst Boie, Lübeck)

Otto Kiessling (Director of "Brenntag" Brennstoff-Chemikalien-, und Transport A.G.)

8. Sub-Trade Group Lubricants, Wholesale (Fachuntergruppe Schmierstoffgrosshandel)

Location: Tiergartenstrasse 12a, Berlin W 35.

Leader: Senator a. D. Laue (Bick & Laue, Bremen)

Manager: Dr. A. Loos, Berlin

Sub-Trade Group Lubricants, Wholesale (Cont'd.)

Advisory Board:

Eckhoff (Hauptmann & Volickmar, Hamburg)
A. Freimuth (Janke & Gutherz, Berlin)
K. Isermeyer (Olvertrieb Nordhausen, Nordhausen-Harz)
H.F. Jennes (Firma Jennes, Bergisch-Gladbach)
Kemper (Fischer & Co. Leopoldshall)
K. Scheuerle (Firma L. Mueller & Co. Heilbronn)
F. Stahl (J. C. Stahl, Nürnberg)
Franz Voitlaender (Franz Voitlaender, Kronach)
Westphal (Firma A. Jaenicke, Burg b. Magdeburg)
H. Winkler (Firma H. Winkler, Liegnitz)

9. Trade Division Motor Fuels and Garages (Fachabteilung Kraftstoffe und Garagen)

Location: Margburgerstrasse 3, Berlin W 50.

Leader: G. H. Lombard

Manager: Dr. Erich Renell

Advisory Board:

Direktor Dr. jur. E. F. Stoeck (Deutsche Gasolin A.G.)

Heinrich Breme (lawyer)

Heinrich Grell

and 18 regional trade-group leaders (Bezirksfachgruppen leiter).

The regional trade groups of the Trade Group Department Motor Fuels and Garages, their location, leaders and managers are as follows:

<u>Region</u>	<u>Location</u>	<u>Regional trade group leader</u>	<u>Manager</u>
Ostpreussen	Königsberg	Walter Bremer	S. Hager
Schlesien	Breslau	Reinhold Klapper	Assessor Kindscher
Brandenburg	Berlin-Charlottenburg	Bruno Dannenberg	Rudorff
Pommern	Stettin	Walter Stein	W. Lantzsch
Nordmark	Altona	Walter Menge	Dr. Schweer
Niedersachsen	Hannover	Max Eckebrecht	Dipl. Kaufm. Lott
Bremen	Bremen	Wilhelm Schild	Francke
Westfalen	Dortmund	Fritz Asbeck	Dr. Bramann
Rheinland	Köln	Fritz Werth	Seul
Neiderrhein	Düsseldorf	Heinrich Schmitz	Assessor Zens
Hessen	Frankfurt a. M.	?	Dr. Gleitze
Mittelelhbe	Magdeburg	Hans Rogge	Riehle
Thüringen	Weimar	Max Keil	Dr. Rückert
Sachsen	Dresden	Hanfried Arlt	P. Berger
Bayern	München	Ernst C. Baumann	H. Galke
Wurttemberg	Stuttgart	Carl Baisch	Dr. Molt
Baden	Karlsruhe	Dir. Hermann Kübler	Westphal
Saarpfalz	Saarbrücken	Max Müller	Dr. Seidel
Sudetengau	Reichenberg	None	P. Berger
Ostmark	Wien	None	Commissioner-manager (<u>Kommissarischer Geschäftsführer</u>)
		(Commissioner-leader (Kommissarischer Leiter):	F. Friedrich
		Ing. Cesar Karrer	

A P P E N D I X 16

MATERIALS TO BE REGARDED AS LUBRICANTS (a)

The following materials are to be regarded as lubricants, irrespective of the original material from which they were manufactured and of the use to which they are applied:

Spindle oil

Machine Oil

Cylinder oil

Motor oil (including Brightstock).

Turbine oil

Railroad axle oil

Dark lubricating oils

Oils for the treatment of metals if not soluble in water

Oils and fats soluble in water

Products containing lubricants for the treatment of metals and other materials

Paraffinum Liquidum, Vaseline oil and White oil

Transformer oil

Cable insulator oil

Other mineral oils with lubricating qualities

Rope grease

Axle grease

Other greases and protective fats containing lubricating oils

A P P E N D I X 17

JURISDICTION OF VARIOUS STEERING BOARDS FOR THE ALLOCATION OF LUBRICANTS

Certain lubricants may be purchased only with the authority of steering boards (Lenkungsstellen), which are specified in the decree (a) as follows:

1. Economic Group Fuel:	For lubricants used in the production of materials within the jurisdiction of the Reich Board for Mineral Oil.
2. Schmierstoffgemeinschaft:	For turbine-oil used with steam turbines.
3. Economic Group Electrical Industry:	For transformer and switch-oil (in first fillings only).
4. The Trustee Tafacht:	For cable insulating oil.
5. Reich Board Chemistry:	For lubricants used in the production of the following: (i) Conservation materials for building (b) (ii) Printing and mineral colors (iii) Lacquers (iv) Materials used in leather production (b) (v) Materials for leather conservation (vi) Plant preserving materials (vii) Pharmaceutical and cosmetic products (viii) Camouflage paints (ix) Materials used in the textile industry (b)
6. Economic Group Chemical Industry:	For lubricants used in the production of cable insulating materials and certain cements (Kernbindemittel)
7. Trade Group Chemical Office Accessories (of the Economic Group Chemistry):	For lubricants used in the production of chemicals used as office accessories.
8. Reich Office for Economic Development (Reichsamt für Wirtschaftsausbau:	For lubricants used in the production of coal ignition apparatus.
9. Reich Board Rubber:	For lubricants used in the hard rubber industry
10. Trade Group Asbestos Industry of the Economic Group Textile Industry:	For lubricants used in the production of packings.

- (a) Appendix to Anordnung 5 zur Ergänzung und Durchführung der Anordnung II-43.
(b) The Reich Board Chemistry has jurisdiction for the allocation of lubricants for direct use in the conservation of buildings, in leather production and in the textile industry, nor merely in the production of materials to be used for these purposes.

11. Sub-Trade Group Technical Fabrics of the Trade Group Textile Processing Industry:	For lubricants used in the manufacture of tap padding rags.
12. Reich Board Paper:	For lubricants used in the paper industry
13. Reich Board Industrial Fats and Cleaning Materials:	For use in the production of putty and foam preventatives.
14. Reich Association of the German Milk and Fat Economy:	For lubricants used in the production of milking fats
15. District Office of the Reich Chamber of Pharmacists:	For the supply of paraffinum liquidum and vaseline oil to the following consumer: physicians, pharmacies, hospitals, and other establishments for the care of the sick.
16. Reich Board for Mineral Oil:	For paraffinum liquidum insofar as it is not within the jurisdiction of another steering board.

APPENDIX 18

DISTRIBUTING BOARDS FOR BITUMEN (a)

<u>Distributing Board</u>	<u>Jurisdiction for</u>
Sub-Trade Group Roofing Felt	Production of bare roofing felt, insulating board, putty, etc.
Trade Group Mineral Paints	Production of printers' paints.
Trade Group Varnishes	Production of varnishes and protective coatings.
Economic Group Building Industry Reich Association of Building Handicraft Reich Association of Roofing Handicraft	Insulation against moisture.
Trade Division Furnace Construction of the Economic Group Building Industry	
Economic Group Paper Production	
Sub-Trade Group Jute Spinning and Weaving	
The Trustee Tafacht and Economic Group Electrical Industry	
Trade Group Rubber of the Economic Group Chemical Industry	Rubber protection.
Rohrenverband G.m.b.H. and Economic Group Iron Goods Industry	Tube insulating materials, etc.
Economic Group Stones and Earth	Asphalt mastic.
Economic Group Fuel-Trade Group Bitumens	Grease for hot rolling.
Economic Group Fuel-Trade Group Bitumens	For other industrial use.
Inspector General of German Roads	Road construction.
Reich Ministry of Aviation	Asphalt covers.

(a) Anlage zur Anordnung VI-43 der Reichsstelle für Mineralöl December 21, 1942
(D. R. Anz. 303).

INDEX

For the sake of uniformity in indexing all modified vowels in the subject headings have been spelled out, i.e.; "ä" appears as "ae", "ö" as "oe" and "ü" as "ue".

Aachen, Petroleum facilities, T-310.
Achin, Petroleum facilities, 275, 281-282, T-310.
Adolphsglueck (Hope-Lindewell) field, 50-51.
A.G. für Mineraloelhandel, T-18.
Agencies, Government, 12-14, 296.
Agriculture, Fuel for, 220.
Agriculture, Generators for, 232-233.
Agriculture, Fuel for, 220.
Agriculture, Generators for, 232-233.
Ahlften, Oil prospect, T-29.
Aken a.d. Elbe
Bulk plant, Layout 330, Storage, T-210.
Alberthafen, Storage etc., 314.
Alcohol as fuel, 225-226.
Allgemeine Brennstoff handels G.m.b.H., T-18.
Allgemeine Erdoel, T-18.
Allgemeine Oel-Handels G.m.b.H., T-18.
Alhorn, Oil prospect, T-29.
Alminag Allgemeine Mineraloel- und Asphalt, K.G., T-18.
Alsfield, Storage etc., T-275-T310.
Alte Piccarde, (Georgsdorf) oil field, 41-42 with M. Production, T-83.
Altenkirchen, Storage etc., T-275, T-310.
Altona, Storage etc., T-317.
Alvesee, Oil prospect, T-29.
Angermünde, Storage etc., T-310.
Anglo-Iranian Oil Co., Ltd., 15, with Personnel.
Annaburg, Storage etc., T-275, T-310.
Aschaffenburg a. Main, Storage etc., T-310.
Aschersleben, Oil prospect, T-29.
Storage etc., T-310.
Asse, Oil prospect, T-29.
Atlantic Refining Co., 15, with personnel.
Atlantic Refining Co. of Germany G.m.b.H., T-18.
Aue, Storage etc., T-310.
Augsberg, Storage etc., T-310.
Aurich, Storage etc., T-310.
Aussig, Storage etc., T-275, T-310.
Aviation, Commercial, Fuel, 220.
Bad Berke, Storage etc., T-275, T-310.
Bad Bramstedt, Oil prospect, T-29.
Bad Kissingen, Storage etc., T-310.
Bad Wildung, Storage etc., T-275, T-310.
Bahlburg-Patterson, Oil prospect, T-29.
Bamberg, Storage etc., T-310.
Barneberg, Oil prospect, T-29.
Barnstorf-Brunswick, Oil prospect, T-29.
Bautzen, Storage etc., T-310.
Bavarian (Munich) Basin oil fields.
Geology, 75-78.
Magnetic axis, 77.
Map, 77.
Well logs, 79.
Bayreuth, Storage etc., T-310.
Bechtsbuettel, Oil prospect, T-29.
Beinrode (Dorn), Oil prospect, T-29.
Bendorf, Storage etc., T-310.
Bensheim, Storage etc., T-310.
Benzol, as fuel, 226.
Benzol plants, Important, T-215.
Benzol-Verband G.m.b.H., T-18.
Benzol-Vertrieb, Berlin G.m.b.H., T-18.
Bergius I.G. Hydrogenation process, 148-150, 154-156.
Plants, 159, T-160.
Berkhoepen Field, See Oelheim-Berkhoepen, 58, 59.
Berkhoepen oil field, See Oelhiem-Berkhoepen.
Berlin, Petroleum facilities, Storage etc., T-311, M-331.
Refineries, 89, 90, M-331.
Bessen-Laublingen, Oil prospect, T-29.
Betriebstoff- und Mineraloel-Vertrieb G.m.b.H., T-18.
Beuel, Storage etc., T-311.
Bielefeld, Storage etc., T-311.
Bingen, Storage etc., T-311.
Binnehoff, Storage etc., T-319.
Bisingen, Shale oil plant, T-81.
Bitburg, Storage etc., T-311.
Bitterfeld, Storage etc., T-311.
Bitumen, Distributing boards for, 366.

Blechhammer, North, South.
Storage etc., T-311.
Synthetic plants, 164-169.
Bleckede, Storage etc., T-275, 282-283, T-311, M-283.
Blexen, Ocean and river terminal, 266.
Oil prospect, T-29.
Storage etc., T-312.
Bochum, Storage etc., T-311.
Boehlen-Roetha, Storage etc., 311.
Synthetic oil plant, 170-171.
Boehnte, Oil prospect, T-29.
Boestlingen, Oil prospect, T-29.
Bonn, Storage etc., T-275, T-312.
Borkum, Storage etc., T-275, T-312.
Borussia Beteiligungs G.m.b.H., 14.
Bottrop, Storage etc., T-312.
Bottrop-Welheim, Synthetic oil plant, 172-173.
Brabag, See Braunkohle-Benzol A.G.
Brake, Ocean and river terminal, 267.
Storage etc., T-275, T-312.
Brandenburg, Storage etc., T-276, T-312.
Braunkohle-Benzol A.G., 14, 144.
Synthetic plants, 170-171, 193-197, 201-203, 212-213.
Braunschweig (Brunswick), Storage etc., T-275, T-312.
Braunsfeld, Storage etc., T-320.
Bremen
Ocean and river terminal, 269, 271.
Refineries, T-86, 89-93.
Storage etc., T-312.
Bremen-Delmenhorst, Oil prospect, T-29.
Bremer Chemische Fabrik A.G., T-18.
Bremerhaven, Ocean and river terminal, 265-266.
Storage etc., T-275, T-312.
"Brenntag" Brennstoff, Chemikalien- und Transport A.G. T-18.
Bulk plant, L-332.
Refinery, (Berlin), T-18, M-331.
Breslau-Weischwitz, Bulk plant, L-332.
Storage etc., T-312.
Brockwitz, Storage etc., T-314.
Broisted oil field, 42-43.
Production, T-83.
Bruchsal, Storage etc., T-312.
Bruchsal-Forst Oil Field, 72, 74.
Bruensbittel, Storage etc., T-312, 259.
Bruer, Czechoslovakia, Hydrogenation plant, 146.
Brunshausen, Storage etc., T-312.
Brunswick, Storage etc., T-312.
Buechen, Storage etc., T-275, T-313.
Buehl, Storage, T-313.
Bulgarian oil, 14.
Bulk plants, Interior, 293.
Bulk storage facilities.
Interior, 293.
Storage etc., T-310-328, M-329.
Strategic storage, M-274, T-275-281.
Terminals, ocean, 239-273, M-240.
Bunkers, ocean shipping, 219-220.
Burbach-Kriesslesien, Storage etc., T-313.
Busses, fuels, 218-219, 231.
Busum, Storage etc., T-313.
Cartels, 12, 299-302.
Castrop-Rauxel, Storage etc., T-313.
Synthetic plant, 173-174.
Celle, Storage etc., T-313.
Charts and tables, See contents 7-8 for list.
Chemische Werke Essener Steinkohle A.G., 145.
Synthetic oil plant, Kamen-Dortmund, 145, 186-187.
Chemnitz, Storage etc., T-313.
Christian Arens, Kompressol-Oelwerk, T-18.
Coal, consumption synthetic oil. 158-159.
Coblenz, Storage etc., T-320.
Coburg, Storage etc., T-313.
Coelner Benzine-Raffinerie Kroseberg Co., T-18.
Coevorden Oil field, 43.
Production, T-83.
Cologne(Köln), Storage etc., T-320.
Companies, Foreign in Germany, T-15-17.
Companies, German, T-12, T-18-20, T-144-146.

- Companies, Holding, T-16.
Companies, Oil, Marketing Statistics, T-292.
Companies, Personnel, 14-17.
Companies, Principal, Summary, T-18-20.
Conow, Oil prospect, T-29.
Consumption, Petroleum products, 217-221.
Control and rationing, 296-299, 302-309.
Conversion factors used in this report, 346.
Corporations, Government, 12-14.
Cosel, Storage etc., T-320.
Cottbus, Storage etc., T-313.
Creditul Minier Deutsch-Rumaenische Petroleum Vertriebs - A.G., T-18.
Crefeld, Storage etc., T-313.
Crude oil, German,
Analyses, 21, 22, 347, 350.
Production, T-82, 283.
Cuxhaven,
Ocean terminal, 241, 243.
Oil prospect, T-29.
Storage, etc., T-275, 283, T-313.
- Dalum (Lingen) Oil field, 43-44 with M. Production, T-83.
Danubia A.G. für Mineraloelindustrie, T-18.
Darmstadt, Storage etc., T-275, T-313.
Daschowitz, Storage etc., T-313.
Dautmergen, Shale plant, T-81.
"Debag" Betriebsstoff A.G., T-18.
Dedesdorf, Oil prospect, T-29.
Deggensdorf, Storage etc., T-313.
"Depi" Petroleum A.G., T-18.
Derben, Storage etc., 283-285.
Derben-Ferchland, T-275, T-313.
Derop Deutsche Vertriebsges für Russische Oelprodukte, T-18.
Deschowitz, Synthetic plant, 175-176.
Dessau, Storage, T-313.
Detmold, T-313.
Deurag Nerag (Gewerkschaft Deutsche Erdoel Raffinerie and Gewerkschaft Neue Erdoel-Raffinerie) (Hannover-Misburg), T-19, 125-129.
"Nerag", lube oil plant, 130-131.
Deutsche-Amerikanische Petroleum Gesellschaft, 17, T-18.
Bulk plant (Mannheim). L-341.
Refineries
Berlin, 89-90, M-331.
Duesseldorf, T-86, 94-96.
Deutsche Aseol-G.m.b.H., T-18.
Deutsch-Krone, Storage etc., T-313.
Deutsche Erdoel A. G., 14, T-18.
Deutsche Fanto-Mineraloel-Industrie G.m.b.H., T-19.
Deutsche Gasolin A. G. refineries, T-19.
Dolbergen, T-86, 93, M-124.
Emmerich, T-86, 99-100.
Deutsche Petroleum A. G. refineries, T-19.
Hamburg (Wilhelmsburg) T-86, 100, 116, 123, 243, 246-247.
Rositz, T-87, 136-137.
Deutsche Ueberseeische Petroleum A.G. T-19.
Deutsche Vacuum Oel A. G., 16.
Refineries.
Bremen, 89; 91-93
Hamburg (Schulau), T-19, T-86, 100-103, 246-247.
Deutsche Viscobil Oel A. G., T-19.
Deutz, Storage etc., T-320.
Development, Petroleum Industry.
History, 23-25.
Diedersee, Oil prospect, T-29.
Diepholz, Storage etc., T-313.
Diesel trucks, 219.
Distributing, 12, 217.
Companies 292, 293, 296
Control and rationing 296-309
Consumption, 217-221, 224.
Exports, Prewar, T-223.
Imports, Prewar, 11, T-222.
Sales statistics 292
Service stations P-294-295, 296
Substitute fuels, 225-233.
Supplies, 224-225.
Transportation, 236-239.
Doebeln, Storage, T-313.
Doberitz, Tetra-ethyl lead plant, 140-141.
Dolbergen refinery, T-86, 93, M-124.
Storage etc., T-313.
Donauwoerth, Storage etc., T-313.
Dormettingen, Shale plants, T-81.
Dornstetten, Storage etc., T-313.
Dortmund.
Refinery, T-86, 93, M-163.
Storage etc., T-275, T-314.
Synthetic plant, 177-179.
- Dottingen, Oil prospect, T-29.
Dotternhausen, Shale plant, T-81.
Dresden, Storage etc., T-275, T-314.
Petroleum facilities, M-333.
Vitol plant, 139-140.
Drilling equipment, German firms specializing in, 351.
Druehen, Storage etc., T-314.
Druehmen, Storage, etc., T-275.
Duelmen, Storage etc., T-275, T-314.
Dueren, Storage, T-314.
Duesseldorf refineries, T-86, 94-99.
Duesseldorf Storage etc., T-275, T-314-315.
Duesseldorf-Reisholz bulk plant. L-335.
Facilities, 336.
Duesslingen, Shale plant, T-81.
Duesburg, Bulk plant, L-334.
Storage etc., T-275, T-314.
Dunge (Lesum), Oil prospect, T-29.
- Ebano Asphalt Werke A. G. refinery (Hamburg, Harburg), T-19, T-86, 103-105 246-247.
Ebenhausen, Storage etc., T-275, T-315.
Ebingen, Storage etc., 315.
Eckernförde, Storage etc., 321.
Ehmen, Oil prospect, T-29.
Storage etc., T-275, T-315.
Ehra Oil field, 67
Production, T-83.
Eichlingen oil field, See Niehagen, 53-56.
Eickeloh (Hademsdorf) oil field, 44.
Storage etc., T-275, T-315.
Production, T-83.
Eilte, Oil prospect, T-29.
Einswarden.
Ocean and river terminal, 266.
Storage etc., T-315.
Eislingen, Shale plant, T-81.
Storage etc., T-315.
Elbe River terminals, See Hamburg.
Schulau, Stade.
Elberfeld, Storage etc., T-315.
Elberfelde, Storage etc., T-328.
Elbing, Storage etc., T-315.
Ellerburg, Oil prospect, T-29.
Elm, Oil prospect, T-29.
Elmshorn, Storage, T-315.
Elvesse, Oil prospect, T-29.
Emden, Ocean terminal, 243.
Storage etc., T-275, T-315.
Emlichheim oil field, 44.
Production, T-83.
Emmerich refinery, T-86, 99-100.
Storage etc., T-315.
Engstlatt, Shale plant, T-81.
Epenwoerden Oil fields, North, South, 45, M-50,
Production, T-83.
Erdoel Bergban A. G. "Ebag", T-19
Erdoel- und Teerprodukten A. G. T-19
Erdoelbetrieb Reithbrook Konsortium Preussag, T-19.
Erdoel-Raffinerie Salzbergen G.m.b.H., T-19, T-87, 137-139.
Erfurt, Storage etc., T-275, T-315.
Ernst Schliermann's Oelwerke, refinery (Hamburg, Grasbrook), 117, 121, 125, 246-247.
Erzigen, Shale plants, T-81.
Essen, Storage etc., T-315.
Etzel oil field, 45, M-46.
Production, T-83.
Europäische Tanklager- und Transport A. G. "Eurotank" refinery, (Hamburg), T-19, 106-115.
Eurotank, See above.
Euskirchen, Storage etc., T-315.
Exports, Petroleum, 11, 223.
- Fachgruppe, 13.
Fachuntergruppen, 13
Fallstein, oil field, 46.
Production, T-83.
Farge, Ocean and river terminal. 267-269.
Storage etc., T-275, 285, T-315.
Feldbergen (Moelme extension) oil field, 47.
Production, T-83.
Feuerbach, Storage etc., T-315.
Figures and Maps See Contents, 6-7 for list.
Fischer-Tropsch, Hydrocarbon synthesis Process, 151-153, 156.
Plants, 159, 160.
Flemhude, Naval fuel storage, 260-262, 285. T-275, T-316.
Flensburg, Storage etc., T-275, T-316.
Forst (Bruchsal) oil field 72, 74.
Frankfurt am-Main, Petroleum facilities, 337, Storage etc., T-316.

Freiburg, Storage etc., T-276, T-316.
Freiham, Storage etc., T-276, 285-287, T-316.
Freidenstadt, Storage etc., T-316.
Friesenheim, T-276, T-316.
Frommern, Shale plant, T-81.
Fuels, Substitute, 225-233.
 Government Control, 308-309.
Fuhrberg oil field, 47-48 with M.
Fuhrberg, Storage etc., T-316.
 Production, T-83.
Fulda, Storage etc., T-316.

Gaagen, Storage etc., T-316.
Gardelegen, Storage etc., T-316.
Gas, Liquid, as fuel, 226-227.
Gas, Natural, 75, 78.
Geislingen, Storage etc., T-316.
Geislingen, Storage etc., T-276, T-316.
Gelsenberg Benzin, A.G. 145, Synthetic plant, 180-181.
Gelsenkirchen, Storage etc., T-316.
 Synthetic plant, 180-181.
Geology.
 Bavarian (Munich) Basin, 75-78, M-26.
 General 25, 27.
 Historical, 27
 Petroliferous districts, 25-27.
 Prospects, T-29-31.
 Salt domes, Types, 37.
 North Germany, 32-41.
 Cross section, 40-41.
 Geology, 33-41.
 Salt domes, M-28.
 Seismic refraction, M-38-39.
 Stratigraphic section, 34-35.
 Rhine Valley, 70-72, 73.
 Fault structure, M-73.
 Sections, 71.
 Thuringian Basin, 68-69.
 Stratigraphic section, 35.
Georgsdorf oil field, See Alte Piccardie.
Gewerkschaft Deutsche Erdoel-Raffinerie, See Deurag-
 Herag.
Gewerkschaft Elwerath, 14, T-19.
Gewerkschaft Viktor, 145.
 Synthetic plant, 173-174.
Giessen, Storage etc., T-276, T-317
Gifhorn oil field, 48-49.
 Production, T-83.
Gleiwitz, Storage etc., T-317.
Glogau, Storage etc., T-317.
"Glueckauf" Deutsche Oel Gesellschaft m.b.H. T-19.
Glueckstadt, Storage etc., T-317.
Godesberg, Storage etc., T-317.
Goepfingen, Storage etc., T-317.
Goerlitz, Storage etc., T-317.
Goessel Wilcken, T-19.
Goettingen, Storage etc., T-317.
Government agencies, corporations, etc., 12-14, 296.
Government control and rationing, 296-309.
 Agencies, official and semi-official, 296-309.
 Allocations, 302-306.
 Cartels, 299-302.
 Economic offices, 300-302.
 Group system, 298-299.
 Mineral Oil Economy Division, Organization, 357.
 Rationing, 302-306
 Regulations, Miscellaneous 306-308
 Substitute fuels, 308-309.
Grasbrook Ocean terminal, 249, 253
Grasbrook refineries.
 Ernst Schliemann's Oelwerke, T-8, 117, 121, 125,
 246-247.
 Mineraloelwerke Albrecht & Co., K. G., 115, 117,
 246-247.
 Petroleum Facilities, M-117.
 Rhenania-Ossag Mineraloelwerke A. G. T-86, 117, 119-
 121, 246-247
Grasbrook, Storage etc., 317.
Grossensiel Storage etc., 317.
Gulf Oil Co., 15, with personnel.

Hademstorf (Eickeloh) oil fields, 44.
Haenigsen oil field, See Nienhagen, 53-56.
Hagen, Storage etc., T-317.
Halberstadt Storage etc., T-317.
Halle Storage etc., T-317.
Hambühren, 47, 67, Production, T-83.
Hamburg-Amerikanische Mineraloel G.m.b.H., 17, T-19.
Hamburg ocean and river terminals, 243-258.
Hamburg, Petroleum facilities, M-116-117, M-246-248.

Hamburg refineries, 100-125, for list See Contents, 4.
Hamburg, Storage etc., T-276, T-318.
Hamburg, Tankage, 245.
Hameln, Storage etc., T-276, T-318.
Hamm, Storage etc., T-318.
Hannover area refineries, M-124, 125-130. Storage etc.,
 T-276, T-318.
Harbor charts, 355
Harburg (Hamburg), Facilities and ocean terminal,
 256-257.
Harburg refinery, See under Hamburg
Harburg, Storage etc., T-317.
Heardt, Storage etc., T-315.
Heide oil field 49.
 Production, T-82-83
Heide, Storage etc., T-318.
Heide-Hemmingstedt refinery, 50, T-87, 131, 132.
Heidelberg, Storage, T-318.
Heilbronn, Storage, T-318.
Heiligenstadt, Storage etc., T-276, T-318.
Helmsstedt, Storage etc., T-318.
Hemmingingen, Storage etc., T-318.
Hemmingstedt oil field, 49-50
 Production, T-83.
Hemmingstedt-Kanzlie oil field, 50
 Production, T-83.
Herford, Storage etc., T-318.
Herman von Rautenkranz Internationale Tiefbohr-K.G.
 (Itag), T-19.
Hervest, Storage etc., T-318.
High temperature carbonization (H.T.C.), 147, 153.
Hildesheim, Storage etc., T-318.
Hipperhafen, Storage etc., 272-273.
Hirschberg, Storage etc., T-318.
Hitzacker, Storage etc., T-276, 287-288.
Hoesch Benzin G.m.b.H., 145
Hoesch Benzin G.m.b.H., Synthetic plant, 177-179.
Hoff, Storage etc., T-319
Hohenassel oil field, 67.
 Production, T-83.
Holsteinische Erdoelwerke G.m.b.H. refinery (Heide
 Hemmingstedt), 50, T-87, 131-132.
Holt, Storage etc., T-319.
Holtens-Sterkrade, Synthetic plant, 182-183.
Holtensau, Storage etc., T-319.
Holtzheim, Shale plant, T-81.
Homberg, Storage etc., T-319.
Homberg, Synthetic plant, 184-185.
Hope-lindwedel (Adolphsglueck) oil field, 50-51.
 Production, T-83.
Hornbassel, Storage etc., T-319.
Household fuel supply, 221.
Hoven, Storage etc., T-313.
H.T.C., See High Temperature Carbonization.
Husum, Storage etc., T-319.
Hydrierwerke Poelitz A.G., 145.
 Synthetic plant, 198-200.
Hydrierwerke Scholven A.G., 145.
 Synthetic plant, 204-206.
Hydrocarbon synthesis (Fischer-Tropsch), 151-153,
 156-157.
Hydrogenation (Bergius I.C.), 148-150, 154-156.

I.C. Farbenindustrie A.G., 145, 14.
 Synthetic oil and rubber experimental station, 214.
 Tetra-ethyl lead plant, M-84, 140-141.
Imports, Petroleum, 11, 222.
Industry, Fuel for, 220-221, 233.
Ingoldstadt, Storage etc., T-319.
Inland Waterways, M-216, M-234, 235-236.
Insium, Storage etc., T-312.
Interior bulk plants, 293.
Itzehoe, Storage etc., T-319.

Jena, Storage etc., T-319.

Kaiser Wilhelm Canal (Kiel), M-240, 258-263, M-260.
Kaiserslautern, Storage etc., T-319.
Kamen, Storage etc., T-319.
Kamen, Synthetic plant, 186-187.
Karlsruhe, Storage etc., 186, T-276, T-319.
Kassel, Storage etc., T-276, T-319.
Kassel, Storage etc., T-319.
Kehl a. Rhein, Storage etc., T-319.
Kempen, Storage etc., T-319.
Kempten, Storage etc., T-319.
Kiel Canal (Kaiser Wilhelm). See Kaiser Wilhelm
 Canal.
Kiel, Naval base, M-260, T-262, 276, T-288, T-319-
 320.

Klaffenbach, Storage etc., T-320.
Klausdorf, Storage etc., T-319.
Klieve, Storage etc., T-320.
Klon, Storage etc., T-327.
Koblenz, Storage etc., T-276, T-320.
Koeln, (Cologne), Storage etc., T-320.
Koeln-Braunsfeld, Bulk plant, L-338.
Koenigsberg, Storage etc., T-320.
Koenigsberger Handel Compagnie A.G., T-19.
Kolberg, Storage etc., T-320.
Konstanz, Storage etc., T-320.
Kontinental Oel A.G., 13-14.
Korugen, Storage etc., T-319.
Kosel, Storage etc., T-320.
Kottbus, " " T-313.
Krefeld, " " T-320.
Krupp Tribstoffwerke G.m.b.H., 146.
Synthetic plants, 146, 206-208.
Kuestrin, Storage etc., T-320.
Kulmbach, Storage etc., T-320.

Landau, Storage etc., T-320.
Landsberg, Storage etc., T-320.
Langensfeld, Storage etc., T-236, T-320.
Lavenburg, Storage etc., T-276, T-320.
Leignitz, Storage etc., T-320.
Leipzig, T-276, T-320-321.
Leuna, Synthetic plant, 188-190.
Leverkusen, Storage etc., T-276, T-321.
Lichtenberg, Storage etc., T-311.
Linden oil field, 51.
Production, T-23.
Lingen oil field (Dalum), 43-44.
Production, T-82-83.
List, Storage etc., T-326.
Loccum, Storage etc., T-276-T-321.
Low temperature carbonization, 147-148, 153-154 (LTC)
Lubricants, Materials regarded as, 326.
Lubricants, Regeneration plants, 352.
Lubricants, Steering boards for allotment,
364-365.
Lubricating oil, Voltol, Dresden plant, 139-140.
Lubricating oil for road vehicles, 219.
Ludwigshafen, Storage etc., T-323.
Ludwigshafen, Storage etc., T-321.
Synthetic oil and rubber experimental station, 214.
Luebeck, Bulk plant, L-339.
Lutzenholm, Storage etc., T-276, T-321.
Luetzkendorf, Synthetic plant, 191-192.
Luetzkendorf, Storage etc., T-322.

Maasholm, Storage etc., T-276, T-321.
Machinenoel-Import G.m.b.H., 15.
Magdeburg, Petroleum facilities, M-340.
Magdeburg, Storage etc., T-276, T-321.
Magdeburg, Synthetic plant, 193-197.
Mainz, Storage, T-321.
Mannheim, Bulk plants, L-341, L-343.
Mannheim, Storage etc., T-321.
Mannheim-Ludwigshafen, Petroleum facilities, M-342.
Maps and figures. See contents, 6-7 for list.
Marine Terminals. See Ocean terminals.
Marketing statistics of companies, T-292.
Maschinen-oel-Import G.m.b.H., T-19.
Materials to be regarded as lubricants, 363.
Max Loeb, Benzin-Benzol-Mineraloelwerk, T-19.
Mechelfeld oil field, 52.
Production, T-83.
Mecklenburgische Erdoel G.m.b.H., T-20.
Meiningen, Storage etc., T-322.
Meldorferhafen oil field, 52, M-50.
Production, 83.
Metzingen, Shale plant, T-81.
Minden, Storage etc., T-322.
Mineral Oil Economy Division Organization, 357-358.
Mineraloel-Raffinerie vorm. Aug. Korff, T-20.
Mineraloel und Asphaltwerke, A.G. refinery, (Ostermoor), T-20, T-87, 135, 260.
Mineraloel und Mineraloelzeugnisse, 13.
Mineraloelprodukten-Handel A.G., T-20.
Mineraloelwerk Lichtenberg G.m.b.H. & Co., K.G., refinery (Berlin) T-20, 89, M-331.
Mineraloelwerk Stade, Andersen, Tafel & Co. K.G., T-20.
Mineraloelwerke Albrecht & Co., K.G. (Hamburg), T-20, 115, 117, 246-247.
Mineraloelwerke Julius Schindler (Peine) refinery, 124, 135.
Misburg refinery, See Durag-Nerag refinery, 124-131.
Misburg, Storage etc., T-322.
Moelme extension (Feldbergen) oil field, 47.
Moelme oil field, 52-53. See also Oberg-Moelme, 57-58.

Moerkburg, Storage etc., T-276, T-320.
Monheim refinery, T-87, 131, 133, 134.
Monheim, Storage etc., T-322.
Motor vehicles, 218, 219.
Substitute fuels, use of, 231.
Motorcycles, 218.
Muenchen, Storage etc., T-322.
Muenchen Gladbach, Storage etc., T-322.
Muenchenbernsdorf, Storage etc., T-276, T-322.
Muenster (Westphalia), Storage etc., T-276, T-322.
Mundenheim, Storage etc., T-322.
Munich, Storage etc., T-322.
Munich (Bavarian) Basin fields, 75-79.
Musebach, Storage etc., T-322.

Nachterstedt, Tetra-ethyl lead plant, 84, 141.
Naphtha Industrie und Tanklagen, A.G., T-20.
Natural gas, 75, 78.
Naumburg, Storage etc., T-322.
Naval storage. See Ocean terminals.
Neheim, Storage etc., T-322.
"Nerag", Lube oil plant. See Durag-Nerag.
Neu Ulm, Storage etc., T-322.
Neuberg a. Donau, Storage etc., T-276, 288, T-322.
Neuenheersee, Storage etc., T-276, T-322.
Neuhof, Ocean Terminal (Hamburg), 254-255, Storage etc., T-317-318.
Neumarkt (Oberpfalz), Storage, T-322.
Neusalz, Storage, T-322.
Neustadt, Storage, T-314.
Neu-Stettin, Storage etc., T-322.
Neuwied am Rhein, Storage etc., T-322.
Nieder Sedlitz, Storage etc., T-314.
Niehl, Storage etc., T-320.
Nienberg a.d. Weser, Storage etc., 289-290, T-322.
Nienhagen, Storage etc., T-323.
Nienhagen-Haenigsen-Obershagen-Eichlingen oil field, 53-56, 289-290.
Production, T-82-83.
Nittag Erdoel-Handel G.m.b.H. T-20.
Nittag Mineraloel-Handel A.G., T-20.
Nordenham, Ocean and River Terminal, 266-267, Storage etc., T-276, T-323.
Nordhausen, Storage etc., T-323.
Nordholz, Storage etc., T-276, 283, T-323.
Nuernberg, Storage etc., T-323.

Oberg oil field 57-58.
Production, T-82-83.
Oberg, Storage etc., T-323.
Oberhausen, Storage etc., T-323.
Oberlahnstein, Storage etc., T-323.
Obernberg, Storage etc., T-277, T-323.
Oberschliesche Hydrierwerke A.G., 146.
Synthetic plants, 164-169.
Obershagen oil field (Nienhagen) 53-56.
Storage etc., T-323.
Ocean Terminals, 239-273.
General, 239, 241.
List. See contents, 4.
Map, North Sea ports, Kaiser Wilhelm Canal, 240.
Odertal, Storage etc., T-313.
Odesse oil field. See below.
Oelheim-Berkhoeppen-Odesse oil field, 58-59.
Production, T-82-83.
Oelwerke Julius Schindler G.m.b.H. refinery (Hamburg), T-20, 115, 116, 246-247.
Offenbach, Bulk plant, L-344.
Offenbach a. Main, Storage etc., T-323.
Bulk plant, L-344.
Offenbuerg, Storage etc., T-323.
Officials of oil companies, 14-17.
Oil fields, See list, contents, 3.
Oil groups, Organization and leaders, 298, 359-362.
Oil prospects, T-29-31.
Oil shale exploitation, 80, list of plants, 81.
Oil transportation, Germany, 236-239.
Oldenburg, Storage etc., T-277, T-323.
Oldendorf, Storage etc., T-277, 290-291, 323.
"Olex" Deutsche-Benzin u. Petroleum G.m.b.H., 15, T-20, L-338, L-339, L-445.
Oppeln, Storage etc., T-323.
Oslebshausen refinery, (Bremen) 89, 91-93.
Osnabrueck, Storage etc., T-277, T-323.
Ostermoor refinery, T-87, 135, 259, 260.
Storage etc., T-277, T-323.
Osterromfeld, Storage etc., T-325.

Papenburg, Storage etc., T-323.
Partenkirchen, Storage etc., T-277, T-323.
Passau, Storage etc., T-324.
Peine, refinery, 124, 135.

Peine, Storage etc., T-324.
Personnel, Oil Companies, 14-17.
Petroleum.
Companies, T-12-T-20.
Consumption of products, 217-221, 224.
Crudes, analyses, T-347-350.
Development, History, 23-25.
Exports, Prewar, 11, T-223.
Facilities, See Distributing, Contents, 4-5.
Fields, See Contents, 3.
Geology, See that subject.
Imports, 238, 239.
Prewar, 11, 85, T-223.
Maps, 26, 32.
Organization of oil groups, 359-362.
Production, 11, 21, T-82-83.
Prospects T-29-31.
Refining 85-88, also see Refineries.
Shale products, 80-81.
Storage, See Facilities.
Strategic considerations, 22-23.
Supplies, 224-225, 228.
Transportation, 236-239.
Wartime use, 22-23.
See also Fuels, Substitutes.
Petroleumhafen, Hamburg, Storage etc., T-318.
Pforzheim, Storage etc., T-324.
Pillau, Storage etc., T-277, T-324.
Pintsch Oel G.m.b.H., T-20.
Pirmasens, Storage etc., T-324.
Pirna, Storage etc., T-324.
Plauen, Storage etc., T-324.
Poelitz, Storage etc., T-324.
Synthetic plant, 198-200.
Poessneck, Storage etc., T-324.
Polish oil, 14.
Port and Harbor charts, Sources 355.
Preussische Bergwerks und Huetten A.G., 14, T-20.
Privall, Storage etc., T-326.
Private cars, 218.
Producing, Summary, 21, See Petroleum.
Production, Local, 11.
Oil fields, T-82-83.
Projendorf, Storage etc., T-276, T-320.
Pure Oil Co., 15.

Radolfzell, Storage etc., T-324.
Railways.
Fuels, 219.
Generator motors, 232.
Map, 216.
Oil transportation, 236-239.
Rationing, See Government control and rationing, 296-309.
Ravensburg, Storage etc., T-324.
Rauzel, See Castrop.
Recke, Storage etc., T-324.
Redeventza Deutsch-Rumaenisch Petroleum Verkaufs-gesellschaft m.b.H., T-20.
Refineries, For lists See contents, 3-4, T-86-87.
General, 11, 85, 88.
Map, 84.
Production, (1935-37), 85.
Regeneration of lubricants, Plants, 352.
Shale plants, 81.
Regensburg, Petroleum facilities, L-345.
Regensburg Refinery, T-87, 135, 137, 345.
Regensburg, Storage etc., T-324.
Reichenbach, Storage etc., T-324.
Reichsautobahn-Kraftstoff Gesellschaft, 13, 296.
Reichs Geophysicalische Kommission, 25.
Reichskraftsprit G.m.b.H., T-20.
Reichsstelle für Mineralöl, 13.
Jurisdiction, 356.
Organization, 358.
Reisholz refinery, See Dusseldorf, Rhenania-Ossag Mineraloelwerke A.G. refinery, T-86, 95, 97, 99.
Reisholz, Storage etc., T-324.
Reitbrook oil field, 59-61.
Production, T-83.
Rendsburg, Storage etc., 259, 260, 261, T-325.
Reutlingen, Storage etc., T-325.
Rex Mineraloel-Gesellschaft, Paul Zeigler & Co., T-20.
Rheinpreussen, G.m.b.H., T-20, 146.
Synthetic oil plant, 184-185.
Rhenania-Ossag Mineraloelwerke, A.G., 16, T-20.
Refineries
Dresden, Voltol plant, 139-140.
Hamburg, For list See contents, 4.

Rhenania-Ossag Refineries (Continued)
Monheim, T-87, 131, 133, 134.
Regensburg, T-87, 135, 137, M-345.
Reisholz (Düsseldorfersee), T-86, 95, 97-99.
Rhine Valley Graben, oil fields, 70-75.
Cross-section, 71.
Fault structure map, 73.
Geology, 70.
Production, T-83.
Rhydt, Storage etc., T-325.
Riesa, Storage etc., T-325.
Road transportation, 218.
Roads, M-10, 296.
Rodewald (Steimbke) oil field, 61-62.
Production, T-83.
Rosenheim, Storage etc., T-325.
Rositz refinery, T-87, 136-137.
Rostock, Storage etc., T-325.
Ruethen, Storage etc., T-277, T-325.
Ruhland-Schwarzheide, Storage, T-325.
Synthetic oil plant, 201-203.
Ruhrbenzin A.G., 146.
Synthetic oil plant, 182-183.
Ruhrbenzol G.m.b.H., T-20.
Ruhroel A.G., 173.
Ruhroel G.m.b.H., 146.
Hydrogenation plant, 172-173.
Ruhroert, Storage etc., T-314.
Rumanian oil, 14.
Rummelsburg, Storage, T-311.
Runo Oel A.G., T-20.

Saarbruecken, Storage etc., T-325.
Salsburg oil field, 78.
Salzbergen refinery, T-19, T-87, 137-139.
Salzbergen (Rhein), Storage etc., T-325.
Sangerhausen, Storage etc., T-325.
Schaffgottsch'sche Benzin G.m.b.H., 146.
Synthetic plant, 175-176.
Schafstedt, Storage etc., 259-260, T-277, T-325.
Scheerhafen, Wilhelmshaven, Ocean terminal, 272.
Schliemann's Oelwerke, Ernst, T-20.
Schmalkalden, Storage etc., T-325.
Schmieroelgrosshandel, 13.
Schmitz, W.H., K.G. See Westphalische Mineraloel- und Asphaltwerke.
Schoenberg Shale plant, T-81.
Schoeneberg, Storage, T-311.
Schoeninggen oil field, 63.
Production, T-83.
Schoepfenstedt, Storage etc., T-325.
Schoerzingen, Shale plants, T-81.
Scholven, Storage etc., T-325.
Synthetic plant, 204-206.
Schulau.
Ocean terminal, 257.
Refinery, See Hamburg, 100-103, 246-247.
Storage etc., T-318, T-325.
Schwabach (Nürnberg), Storage etc., T-277, T-325.
Schwarzheide, See Ruhland.
Schweinfurt, Storage etc., T-325.
Schweine, Storage etc., T-325.
Schwiebus, Storage etc., T-325.
Seismic refraction, Northern Germany, 25, M-38-39.
Seligenstadt, Storage etc., T-277, T-325.
Service stations, 294-295, 296.
Shale oil exploitations plants, 80, T-81.
Shell group, 16 with personnel.
Shipping, Generators for, 232.
Shipping, Inland, Fuel, 219.
Siegen, Storage etc., T-326.
Silt, Storage etc., T-326.
Socony-Vacuum Oil Co., Inc. 16, with personnel.
Soest, Storage etc., T-326.
Solingen, Storage etc., T-326.
Sonderdieselkraftstoff (SKDI), 219.
Sottorf oil field, 63-64.
Production, T-83.
Spandau, Storage etc., T-311.
Stade, Ocean terminal, 257-258.
Standard Oil Co. (N.J.), 17, with personnel.
Starnberg, Storage etc., T-277, T-326.
Stassfurt, Storage etc., T-277, 291, T-326.
Steimbke (Rodewald) oil field, 61-62.
Stendal, Storage etc., T-326.
Sterkrade, See Holten.
Stettin, Ocean terminal, 263-265.
Storage etc., T-277, T-326.
Stolp, Storage etc., T-326.

- Storage, 309-329.
Map, 329.
Summary, 309, 210, 229.
Tables, 310-338.
See also names of places.
- Storage, Strategic.
General, 273-281 with tables.
Glossary of terms, 279.
See contents, 5, for list of plants.
- Stralsund, Storage etc., T-326.
Strategic considerations, 12, 22-23, 143-144.
Strategic storage, See storage, Stra-
Stuttgart, Storage etc., T-326.
Subherzynian Basin, Geological cross-section, 40-41.
Substitutes fuels, 225-233.
Swinemunde, Storage etc., 291, T-277, T-326.
Sylt, Storage etc., T-277, T-326.
- Synthetic oil.
Coal consumption, 158-159.
Companies, Principal, 144-146.
General, 143-144.
Total Production, 157.
- Plants.
Cost, 143.
General, 159.
Individual plants, 165-213.
List of plants, See contents, 4.
Maps, 142, 161-164.
Table, 160.
- Processes.
Fischer-Tropsch, 151-152, 156.
General, 146-147.
High temperature carbonization, 147, 153.
Hydrocarbon synthesis (Fischer-Tropsch), 151-155, 156-157.
Hydrogenation (Bergius I.G.), 148-150, 154-156.
Low temperature carbonization, 147-148, 153-154.
Production, 11-12, 152-157.
Annual capacities of plants, 155-156.
Total production, 157.
- Synthetic oil and rubber experimental station, (Ludwigshafen), 214.
- Tables and charts. See contents 7-8 for list.
- Tanks, Storage, Types, 278-281.
Taxis, 218.
Teerhof Island, Storage etc., T-321.
Tegernsee oil field, 78.
Production, T-82-83.
Tempelhof, Storage etc., T-311.
Terminals, See Ocean Terminals.
Tetra-ethyl lead plants.
Doberitz, 140-141.
Nachterstedt, 84, 141.
Thoeren oil field, 67.
Production, T-83.
Thuringian Basin oil fields, 67-69.
Tide Water Associated Oil Company, 17, with person-
nel.
Tirpitzhaven, Wilhelmshaven, Ocean Terminal, 272.
Tirpitzhaven, Wilhelmshaven, Uto, Repair yards, 272.
Titisse, Storage etc., T-277, T-326.
Torgau, Storage etc., T-326.
Torpedobootshafen, Wilhelmshaven, Ocean Terminal, 273.
Trade associations, compulsory, 12-14, 298-300.
Transportation, 233-239.
General, 233.
Oil, 236-239.
Railways, Fuels, 232. Map, 216.
Waterways, Inland, 234-236, M 216.
Traumstein, Storage etc., T-326.
Travemuende, Storage etc., T-277, T-326.
Treibgas, 226.
Triburg, Storage etc., T-326.
Triebstoffgrosshandel, 13.
Trier, Storage etc., T-326.
Troeglitz, See Zeitz.
Trucks fuels, 219, 231.
Tuebingen, Storage etc., T-326.
Tuttlingen, Storage etc., T-326.
- Uelm, Storage etc., T-326.
Union Rheinische Braunkohlen Kraftstoff, A.G., 146.
Synthetic plant, 209-211.
Unna, Storage etc., T-326.
- Velten, Storage etc., T-311.
Verden, Storage etc., T-326.
Volkenrode oil field, 69, Production, T-83.
Vollol lubricating plant, Dresden, 139-140.
Vorhelm, Storage etc., T-327.
Vossbrook, Storage etc., T-319.
- Wagenfeld, Storage etc., T-327.
Waldbroel, Storage etc., T-327.
Walrode, Storage etc., T-327.
Walsum, Storage etc., T-277, T-327.
Wanne-Eickel, Storage etc., T-327.
Synthetic oil plant, 206-208.
Warmelskirchen, Storage etc., T-327.
Wasserburg, a. Inn, Storage etc., T-327.
Waterways, Inland, M-216, M-234, 235-236.
Fuel for, 219.
Weiher oil field, 74.
Weilheim, Storage etc., T-327.
Weingarten oil field, 74-75.
Weissenhorn, Storage etc., T-277, T-327.
Welheim. See Bottrop.
Well logs, Bavarian, T-79.
Werden, Storage etc., T-327.
Wertheim am Main, Storage etc., T-327.
Wesel, Storage etc., T-277, T-327.
Wesendorf oil field (Westerholz), 64-65.
Weser River and Ocean Terminals, 265-271.
Wesermuende, Storage etc., T-312.
Wesseling, Storage etc., T-327.
Synthetic oil plant, 209-211.
Westerholz (Wesendorf) oil field, 64-65.
Production, T-83.
Westfaelische Mineraloel-und Asphaltwerke, W.H. Schmitz K.G. refinery (Dortmund), T-20, T-86, 93, M-163.
Wiedenbrueck, Storage, T-327.
Wienhausen oil field, 67.
Production T-83.
Wiesbaden, Storage etc., T-277, T-327.
Wietze, Storage etc., T-327.
Wietze oil field, 65-67.
Production, T-82-83.
W.I.F.O. (Wirtschaftliche Forschungs G.m.b.H., 13, 273.
Branch offices. Personnel, 353-354.
Wik, Storage etc., T-320.
Wilhelmsberg, (Hamburg).
Ocean Terminal, 255, 257.
Petroleum facilities, M-116.
Refineries
Deutsche Petroleum A.G., T-86, 100, 116, 123, 246-247.
Oelwerke Julius Schindler, G.m.b.H., T-86, 115, 116. 246-247.
Rhenania-Ossag Mineraloelwerke A.G., T-86-116, 121-123, 246-247.
Storage etc., T-318.
Wilhelmshaven, Ocean and River Terminal (Naval), 270-272.
Storage etc., T-277, 291, T-327.
Wilhelmshall, A.G., 14.
Synthetic oil plant, 191-192.
Wirtschaftliche Forschungs G.m.b.H. See W.I.F.O.
Wirtschaftsgruppe Kraftstoffindustrie, 13.
Wittenberg, Storage etc., T-277, T-328.
Woischwitz, Storage etc., T-312.
Wolter, R.O.F., T-20.
Worms, Storage etc., T-328.
Wrietzen, Storage etc., T-328.
Wuertzburg, Storage etc., T-328.
Wunstorf, Storage etc., T-277, T-328.
Wuppertal, Storage etc., T-328.
- Zarrentin, Storage etc., T-277, T-328.
Zeitz-Troeglitz, Synthetic plant, 212-213.
Zeller & Gmelin, T-20
Zentralbuero fuer Mineraloel, G.m.b.H. 13, 302.
Zentralstelle fuer Generatoren, 13, 229-230.
Zimmern, Shale plant, T-81.
Zinwarden, Storage etc., T-312.
Zittau, Storage etc., T-328.
Zwickau, Storage etc., T-328.