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Compiled by
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**Reports Division
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(I)

INTRODUCTION

This classified list catalogs about 1,800 reports on German technology prepared by American investigators who have searched German firms and laboratories over the past two years for information of value to American business and industry. Unlike most OTS reports, which are available only in photostat or microfilm, the reports listed here are available in mimeograph, multilith, or other printed form. Included are the bulk of the reports received from the U. S. Army's Field Information Agency, Technical, the Combined Intelligence Objectives Agency, and the Joint Intelligence Objectives Agency. The list refers the reader to the page number of the *Bibliography of Scientific and Industrial Reports* where abstracts of reports are found.

For convenience this publication is arranged in three parts:

- PART I Classified list of reports giving author, title, date, pages, price, PB number, volume, and page reference to the *Bibliography of Scientific and Industrial Reports** where an abstract of the report may be found.
- PART II Series list naming the series included with reference to the PB number.
- PART III An index from PB number to the page number in the publication where the complete entry may be found.

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The production of higher vinyl esters at Ludwigshafen. Sep 1946. FIAT FR 935
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Production of acrylonitrile at Leverkusen. Jan 1947. FIAT FR 1025
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- Chilton, L. V. and PB 46397 (IV-1040)
Rawling, S. D.
Manufacture of oxalic acid at I.G. Farben-industrie, Bitterfeld. Mar 1946. BIOS FR 633
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Large scale production of oxygen and atmospheric gases. Jul 1946. BIOS FR 591
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Manufacture of cyclohexanol, cyclohexanone, cycloketone resins at I.G. Ludwigshafen. Sep 1946. BIOS FR 743
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A.G. für Chemische Industrie, Gelsenkirchen-Schalke (a controlled subsidiary of the I.G.):
Manufacture of carbon bi-sulphide. Oct 1945. BIOS FR 425
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Robitschek, F. O.
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Hydrogen peroxide works of Otto Schickert & Co. at Bad Lauterberg and Rhumspringe. n.d.
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Development work for manufacture of caustic soda and sulfuric acid from sodium sulfate. Nov 1945. FIAT FR 429
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Manufacture of sulphuric acid, sulphite products, liquid sulphur dioxide and cyanides. Sep-Oct 1945. BIOS FR 260
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The synthesis of fluorine-Mica of the phlogopite group; crystallallochemical and microscopic investigations of synthetic phlogopites; and Gesetzmässige Verwachsungen von synthetischen phlogopit mit mineralien der humitgruppe. (Regular intergrowth of synthetic phlogopite with hydrous mica). Mar. 1946. FIAT FR 767
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Gresford, G. B.
Production of citric acid at the factory of Joh A. Benkiser, Ladenberg, near Heidelberg. Dec 1945. May 1945. BIOS FR 220
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Kaiser Wilhelm Institut fuer Kohleforschung, Muellheim, Ruhr—Interrostion of Dr. Helmut Pichler and Prof. Karl Ziegler. (Isosynthesis) FIAT FR 276
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A.G. für Stickstoffdünger. Knapack. Oct 1946. FIAT FR 728
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Aluminum hydroxide production at Ludwigshafen by electrochemical and chemical methods. Apr 1946. FIAT FR 788
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Chlorine dioxide and sodium chloride at I.G. Farben, Griesheim. May 1946. FIAT FR 825
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Production of caustic potash in mercury chlorine cells. I.G. Farbenindustrie A.G.,—South Bitfelder. Jun 1946. FIAT FR 834
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Production of sodium sulfide from sodium amalgam. Apr 1946. FIAT FR 790
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Plant of Chemische Werke Hüls, Hüls, Germany. 1945. C10S XXVI-5I
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The production of acrylonitrile in the I.G. Farbenindustrie plants at Ludwigshafen, Hüls and Leverkusen. Jul 1946. FIAT FR 836
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The quantum yield in the isomerization of crocetindimethyl ester by light. See 1946. (Text in German and English) FIAT FR 941
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The German bichromate and chrome compound industry. n.d. BIOS FR 265
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Acetylene generation: dry method. Jan 1947. FIAT FR 969
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Cosmetic, perfumery and soap formulas. Sep 1946. FIAT FR 903
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Elemental fluorine, I.G. Farbenindustrie—
Leverkusen, Jun 1946. FIAT FR 838
28p \$.75
- Kennedy, C. C. and Frevel, L. K. PB 77576 (VI-200)
The manufacture of acetonitic acid ethyl ester at I.G. Farbenindustrie A.G., Hoechst am Main, Germany. Feb 1947. FIAT FR-1073
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"Candis," a synthetic substitute for Canada balsam in microscopic techniques. Nov 1946.
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- Kern, J. G. and others. PB 57500 (V-664)
Dispersing agent SS, I.G. Farbenindustrie, A.G. Hoechst. Nov. 1946. FIAT FR 1013
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- Kern, J. G. and others. PB 227 (I-6)
Rohm and Haas, Darmstadt, Germany. 1945.
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Screening device for slurries of organic chemicals. Feb 1947. FIAT FR 1012
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Report on "Chemical Blanching" a summary report of markets of opportunity. 1946. FIAT FR 420
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Effluent treatment practices in some of the chemical factories in the French, British and American zones of occupation in Germany. Sep 1944. Text in English and German. FIAT FR 929
39p \$1.00
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Manufacturing of nicotinamide and related intermediates in the French, British and American zones of occupation. Sept. 1946. FIAT FR 940
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Polymerization of ethylene. 1945. FIAT FR 488
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Phenol manufacture in Germany by the chlorination, sulfonation, and Rasching processes. n.d. FIAT FR 768
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Polystyrene manufacture at I.G. Farbenindustrie plant at Schkopau. Feb 1947. FIAT FR 1041
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Chemical Institute of Phillips University—University of Marburg. 1945. C10S XX-10
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- Lesser, Percy. PB 207 (I-6)
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Wolfen near Halle-Miscellaneous chemicals.
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Acetic acid recovery, aceto-butyric acid re-
covery, propionic acid recovery at I.G. Farben,
Dormagen. Sep 1945. FIAT FR-144
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German production of some of the more important inorganic pigments (with Supplement no. 1, Sep 8, 1946). Jun 1946. B10S FR-814
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Ford H.
"K-3" silicon dioxide for rubber filler.
Apr 1946. FIAT FR 743
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Distillation of phenols at I.G. Farben Fabrik, Wolfen, Mar-Apr 1946. Jun 1946. B10S FR 560
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The German phosphorus industry at Bitterfeld and Piesteritz. Jul 1946. B10S FR 562
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Chemical developments and applications in the synthetics industry of Germany. FIAT FR 67
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Manufacture of inorganic mercury salts from pure virgin mercury at Chemische Fabrik Mhardtewitz A. G. Jan 1947. FIAT FR 1047
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The production of zirconium oxide.
Jan 1947. FIAT FR 1048
7p \$.25
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Information on production of Hydrogen Peroxide-hydrazine Hydrate and Calcium Permanaganate. Jul 1946. C10S ER 223
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Anhydrous chlorides manufacture. May 1946.
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Bichromates manufacture. May 1946. FIAT FR 796
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Ferrocyanides and sulfur from gas work residues. May 1946. FIAT FR 809
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- McCarthy, C. L. PB 48 (I-7)
Chemical Research Laboratory of Dr. Bruno Bottcher, Kronach, Bavaria. Jun 1945.
2c \$.10
- McMullin, Robert B. PB 47908 (III-860)
Electrochemical operations at I.G. Farbenindustrie A.G., Bitterfeld. Feb 1946. FIAT FR 732
123p \$.325
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Reaction of cyclic vinylactams with phenols. Aug 1946. FIAT FR 853
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Industrial Proteins Karl Freudenberg A.G., FIAT FR 366
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Synthetic Fatty Acids 1,0. Farbenindustrie A.G., Ludwigshafen. FIAT FR 362
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English translation on the ignition of chloranilalkali-hydroxide mixtures by water. Jul 1946. FIAT FR 851
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- Mether, E. PB 49272 (V-98)
I.G. Farbenindustrie Leverkusen. Salicylic acid, sodium salicylate, synthetic phenol. n.d. B10S FR 564
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High pressure chemical liquid pump force feed lubricators positive rotary superchargers. (Manufactured by Robert Bosch G.m.b.H.—Stuttgardt). Mar 1946. FIAT FR 594
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Manufacture of ethylene cyanhydrin at I.G. Ludwigshafen. Sep 1946. B10S FR 757
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Pilot plant at I.G. Hoechst on the manufacture of diketene from acetic acid. Sep 1946. B10S FR 749
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Pilot plant for manufacture of acrylonitrile at I.G. Osnabrück. n.d. B10S FR 759
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- Matthews, W. A. and Wood, W. L. PB 18925 (II-478) The production of alcohols and ketones from olefins at the Treibstoff Werk Rheinpreussen, Moers near Duisberg. Oct 1945. B105 FR 131 23p \$.75
- Murray, H. L. PB 223 (I-7) Sehr. Giulini G.m.b.H., Ludwigshafen am Rhein. 1945. C105 XXVI-47 50p \$.10
- Murray, H. L. PB 224 (I-22) Dr. F. Raschid G.m.b.H., Chemische Fabrik Ludwigshafen am Rhein. 1945. C105 XXVI-48 60p \$.10
- Murray, R. L. PB 224 (I-22) A survey of the chlorine and caustic plants in Western and Southern Germany. 1945. FIAT FR 431 50p \$1.50
- Orieli, J. A. PB 36 (I-23) N. V. Internationale Naetsciausij Nederlandstechniek en Chemie. (International hydrocarbon Engineering and Chemical Co., and International Hydrogenation Patents Company. The Hague, Holland). Jun 1945. C105 ER 86 20p \$.10
- Pavcek, P. L. PB 1271 (I-72) Fuhrungs distributed by Deenach A.G., Weissfussstrasse, Frankfort. FIAT FR 215 40p \$.25
- Pleck, E. G. and others. PB 58 (I-7) Udo Gesellschaft für hochdrucktechnik, Dortmund und Bochum-Herford, Germany. Jul 1945. C105 ER 172 20p \$.10
- Perdue, G. R. PB 32568 (II-859) Seifenfabrik Rose, Frankfurt-Osthausen; Oct 1945. B105 FR 545 3p \$.25
- Perry, G. H. and others. PB 46328 (IV-1C38) Investigation into manufacture and use of carbon blocks and lamp blocks in Germany. Feb 1946. B105 FR 572 122p \$.25
- Pickup, R. PB 41242 (III-160) The organization of the German chemical industry and its development for war purposes. May 1946. B105 FR 534 40p \$.125
- Quig, J. B. PB 1352 (I-72) The Acetate Process. 40p \$.10
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- Read, Frank H. PB 57564 (V-668) Study of hydrogen and methane production from coke oven gas. I.G. Farbenindustrie A.G., Hochst e/Main. Nov 1946. FIAT FR 513 60p \$.75
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- Reppé, W. PB 25553 (II-320) The synthesis of intermediates for polyacrylates on an acetylene basis. Oct 1941. RICS FR 350 18p \$.50
- Richardson, R. E. and others. PB 206 (I-8) I.G. Farbenindustrie A.G. Hochst am Main, Germany-Wehrmacht items, miscellaneous chemicals. May 1945. C105 XXV-18 48p \$.25
- Rohelli, John. PB 37783 (III-8) Gesellschaft für Linde's Eisenchemie: Calculation of regenerators for Linde-Franki installations and overall utilities requirements for Linde-Franki oxygen producing units. Jul 1946. FIAT FR 840 12p \$.50
- Rohelli, John. PB 44961 (IV-762) Manufacture of 2-ethyl-anthranoquinone at the I.G. Farbenindustrie plant in Ludwigshafen. Aug 1946. FIAT FR 917 14p \$.50
- Rohelli, John and Dewling, William L. E. PB 47864 (III-704) Methanol synthesis at I.G. Farbenindustrie plant at Oppau. Aug 1946. FIAT FR 888 22p \$.75
- Roberts, F. H. PB 1110 (I-75) Preparation of Alkazid M and D. 1945. Nat Tech Min Europe. C105 XXX-6 TR 111-45 50p \$.10
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- Rohland (Dr.) and others. PB 40311 (III-160) Research reports on benzyl chloride xylidenechloride triethanolamine, triethanolamine fatty acid esters, and methylolacetaphenone. Jul 1946. FIAT FR 845 60p \$.25
- Rose, J. D. PB 25560 (II-479) Cycloolefines, miscellaneous report culled from interviews with Dr. Reppé, Dr. Schlichting and Dr. Kröper (I. G. Farben, Ludwigshafen). B105 FR 352 50p \$.25
- Rose, J. D. PB 25567 (II-479) Products formed by interaction of acetylene and amines. n.d. B105 FR 359 40p \$.25
- Rose, J. D. PB 27124 (II-243) Proprietary alcohol: dehydration and oxidation to hexadimethylol. Interview with Dr. von Kitzsow, Haupt Laboratorium, I.G. Farben, Ludwigshafen. Nov 1945. B105 FR 357 60p \$.25
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- Sley, A. J. and Niesslson, K. T. PB 21 (I-9) Dr. Julius Walter Reppé. Acetylene chemistry. Jun 1946. C105 ER 49 2p \$.10
- Smits, Joseph S. PB 49231 (III-860) The electrolytic chlorine plant in Honchst on Main. Apr 1946. FIAT FR 797 62p \$.175
- Smith, Arthur F. PB 46474 (IV-754) Poly-vinyl chloride production at Bunsenhausen & Ludwigshafen. Jul 1946. FIAT FR 862 32p \$.100

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1.0. Farbenindustrie A.G., Münker Works,
Fechenheim. May 1945. C105 XXIV-21
9p \$.10
- Swann, Sherlock, Jr. PB 913 (I-74)
The ignition of Chlorine-Alkali-Hydroxide
Mixtures by Water.
4p \$.10
- Swann, Sherlock and Elias. PB 36854 (III-II)
K. M.
The influence of oxygen on the chlorination
of methane. Jul 1946. FIAT FR 848
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- Swann, Sherlock and Elias, K. M. PB 906 (I-74)
 α -Chloro-oxides of Higher Molecular Fatty
Acids and their Conversion Products.
4p \$.10
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The preparation of Neopasin-Sulphonate and
Neopasin-mercaptan.
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- Swann, Sherlock and Elias, K. M. PB 908 (I-75)
Reaction of cyclic vinyl lactams with phen-
ols.
2p \$.10
- Swann, Sherlock and Elias, K. M. PB 903 (I-75)
Research reports on benzyl chloride, xylyl-
chloride, triethanolamine, triethanolamine,
fatty acid esters, and methylacetophenone.
3p \$.10
- Swanson, A. A. PB 320 (I-1C)
Manufacture of phlegmatized P.E.T.N. at
Fabrik Zur Verwertung Chemischer Erzeugnisse
G.m.b.H. Wolfratshausen. 1945. C105 XXV-16
8p \$.10
- Swaringen, Judson S. and PB 40441 (III-78)
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Special mechanical features of Linde-Frank
oxygen plants. Aug-Sep 1946. FIAT FR 955
43p \$.25
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Production cycles for manufacture of cel-
lulose acetate and cellulose propionate at 1.0.
Farbenindustrie A.G., Darmstadt. Nov 1946.
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9p \$.25
- Townsend, J. R. and Hertz, PB 51 (I-10)
Pierre.
Dr. Richard Gotthold Vleewee, professor,
Technische Hochschule Darmstadt, 6 Gail Road, St.
John's Wood, London. Jun 1945. C105 ER 125
1p \$.10
- Traill, David, and Brown, PB 14527 (I-828)
Stanley.
Cellulose ethers, esters and mixed esters at
Bielefeld (Westphalen), Elberfeld & Darmstadt.
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19p \$.50
- Traill, David. PB 7999 (I-678)
Cellulose esters and mixed esters at Dorn-
sen. October 1945. FIAT FR 172
6p \$.25
- Trunuit, Hans J. PB 86129 (V-946)
Films of pure and mixed long chain dibasic
esters (über film und mischfilme von langket-
ten dibasischen estern). Mar 1947. Text in
German. FIAT FR 1088
21p \$.75
- Turlock, L. C. PB 216 (I-10)
Henkel and Cie A.G., Dusseldorf—
Miscellaneous chemicals. 1945. C105 XXV-48
10p \$.10
- Uhl, Condr, Charles A. W. PB 468 (I-55)
Report on: (1) K. Hollborn und Sohn,
Leipzig. (2) Kurt Metius, Leipzig. (Produc-
tion of Miscellaneous Chemicals). C105 ER-347
2p \$.10
- U.S. Technical Industrial PB 33221 (II-78)
Intelligence Committee.
Chlorine Industry Team. Horizontal mercury
chlorine cell, I.G. Farbenindustrie, A.G. May
1945. FIAT FR 816
114p \$3.00
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Chlorine Industry Team. Vertical mercury
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55p \$.150
- Vaughan, William E. and PB 79607 (VI-1140)
Geppi, R. Max, Jr.
Proposed ethylene oxide manufacture via ox-
idation of ethylene at Zweckel, near Gladbeck.
May 1947. FIAT FR 875
86p \$.25
- Vigors, B. E. A. and others. PB 45252 (IV-1038)
Hydrogen peroxide—production by electrolysis
of 35 per cent solutions. Deutsche Gold und
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28p \$.75
- Volwiler, E. H. and others. PB 4 (I-10)
Information on a material possibly used for
or in jet propulsion. May 1945. C105 ER 9
1p \$.10
- Waller, C. J. PB 28887 (II-630)
Dr. F. Rasching, G.m.b.H., Chemische Fabrik,
Ludwigshafen. Coal tar distillation, chlori-
nated phenols, phenol-formaldehyde resins,
synthetic phenols. Nov 1945. BIOS FR 507
31p \$1.00
- Waller, C. J. and Murray, PB 34035 (II-961)
C. A., Jr.
Gesellschaft für Teerverwertung m.b.H.,
Duisburg—Heiderich & Castro-Rauel. May 1946
Text in English & German. BIOS FR 490
63p \$.175
- Ward, Kyle, Jr. PB 7755 (I-723)
Use of other materials than wood or cotton
as sources of cellulose. 1945. FIAT FR 490
22p \$.75
- Watson, H. E. PB 34 (I-10)
Sonnenberg Werke Schlaubach Allee, 153
Hamburg water resisting varnishes. Jun 1945.
C105 ER 84
2p \$.10
- Weir, H. H. PB 368 (I-11)
Gesellschaft für Linde's Eisenschmelz, Holl-
reichekreuth. May 1945. C105 XXV-55
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- White, Lester M. PB 181 (I-11)
Deutsche Gold und Silber Scheide Anstalt,
Dessau, Frankfurt, Main. Apr 1945. C105 XX-9
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- White, T. M. PB 90 (I-11)
Report of Leuna, Leunawerk, subsidiary of
I.G. Farben. Jul 1945. C105 ER 253
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- Whittaker, H. W. PB 323 (I-11)
Report on visit to cave used for storage of
hydrogen peroxide. Sep 1944. C105 IV-2
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- Wicker, D. B. PB 1130 (I-76)
Sulphate dissolving pulp for rayon manufac-
ture Koethlein, Obernburg, Darmstadt. FIAT FR
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- Wiesemann (Dr.). PB 44653 (IV-763)
English translation of the preparation of
neopasin-sulfinate and neopasin-mercaptan. Jul
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- Wilcocken, B. H. and others. PB 37992 (III-860)
German carbon bisulfide manufacture. May
1946. FIAT FR 723
51p \$.50
- Wilcocken, B. H. PB 57697 (V-768)
Production of potassium permanganate and
manganese chloride. Jan 1947. FIAT FR 757
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- Wilcocken, B. H. PB 32240 (II-868)
Salicylic acid. Feb 1946. FIAT FR 744
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- Winslow, Carlile P. PB 355 (I-11)
Prof. Dr. Alfred Schmid, Kinstanz & Holin
Homogenol Werkze G.m.b.H., Baiersbronn. C105
XXV-21
140p \$.25
- Woldenberg, Max and White, Lester PB 197 (I-11)
H.
Production of concentrated hydrogen peroxide
solutions, Bad Lauterberg (Hartz). Jun 1945.
C105 XXII-18
31p \$.25
- Wood, W. L. PB 46198 (V-99)
Pilot plant manufacture of vinylacetylene,
at I.G. Hoechst. Sep 1945. BIOS FR 751
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- Wood, W. L. PB 18910 (I-1298)
The production of acetaldehyde, acetic acid,
acetic anhydride and acetone from acetylene at
the Bunawerke, Schkopau. Nov-Dec 1945. BIOS
FR 75
25p \$.75
- Wood, W. L. PB 19269 (I-1452)
Vinyl chloride, polyvinyl chloride, chlori-
nated polyvinyl chloride, and bristles, cane

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- and fibres. I.G. Farbenindustrie, Leipzig area. Jan 1946. BIOS FR 104
37p \$1.00
- Yon, John H. and others. PB 6738 (I-672)
A summary report on analytical methods and physical measurements for naphthenic acids and copper Naphthenates. Nov 26, 1945.
38p \$.25
- Zoss, A. O. and Fuller, D. L. PB 58440 (IV-1043)
The manufacture of thiobutiric acid, at I.G. Farbenindustrie A.G., Ludwigshafen. Oct 1946. FIAT FR 945
13p \$.50
- Zoss, A. O. and Fuller, D. L. PB 60921 (V-99)
The manufacture of γ -butyrolactone at I.G. Farbenindustrie A.G., Ludwigshafen. Oct 1946. FIAT FR 945
18p \$.50
- COMMUNICATION**
- Augustine, R. W. PB 7762 (I-683)
Industrial survey of plants, methods and products in Germany telephone industry. 1945. FIAT FR 526
45p \$1.25
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The design of German line telecommunications transmission systems. Dec 1945. BIOS FR 587
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- Coop, E. and others. PB 32571 (II-945)
German wireless communication, mainly with reference to cm, dm and pulse technique. n.d.
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Report on private laboratory of Prof. Vierling. Jul 1945. C105 ER 205
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- Heller, H. F. PB 331 (I-13)
Signals communication targets in Brussels. 1946. C105 II-7
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- Kun, Eugene R. PB 80332 (VI-877)
Standardization of German carrier telephone and telegraphy equipment. May 1947. FIAT FR 1125
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- Olsarenko, T. M. PB 21979 (I-1145)
12 channel long distance voice frequency telegraph system. Dec 1945. J104 57
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Vereinigte Bayrische Telefonwerke, A.G. Jul 1945. C105 ER 191
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- Parrott, J. A. PB 1300 (I-77)
Carrier telephone systems. FIAT FR 289
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Coaxial cable and associated telephone and television systems. FIAT FR 285
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Rural telephone service, dial switching for teletypewriter systems and miscellaneous items. FIAT FR 288
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- Chirard, Francis T. and others. PB 234 (I-3)
I.G. Farbenindustrie A.G., Abteilung: Behring Werke A.G., Lahn, Germany. 1945. C105 XXII-13
19p \$.50
- Conquest, Victor and others. PB 28312 (II-547)
Pharmaceutical activities of I.G. Farbenindustrie A.G. n.d. OPS-4
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- Curtis, Francis J., and others. PB 237 (I-3)
Pharmaceuticals and insecticides at I.G. Farben plants. Elberfeld and Leverkusen. 1945. C105 XXXII-12
127p \$.75
- Dawson, T. and Skrimshire, G. E. H. PB 23817 (II-313)
Insulin manufacture at I.G. Hoechst (Frankfurt a.M.). n.d. BIOS FR 305
9p \$.25
- Ellis, W. J. and Gresford, G. B. PB 20466 (I-1373)
Work on synthesis and production of drugs 3065 (2,2'-dihydro-5,5'-dibromo benzil) and 3211 (2,2'-dihydro 3,3'-5,5'-tetrachlorobenzil). Dec 1945. BIOS FR 219
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- Heppworth, H. and others. PB 7935 (I-472)
Pharmaceuticals: Research and manufacture at I.G. Farbenindustrie. 1945. BIOS FR 115
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Pharmaceuticals: Research and manufacture at I.G. Farbenindustrie. Dec 1945. BIOS FR 116
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Pharmaceutical targets in Southern Germany. 1946. C105 XXV-15
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Aludrine sulfate: Manufacture and pharmacological properties. Sep 1946. FIAT FR 896
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Manufacture of synthetic caffeine. Aug 1946. FIAT FR 885
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Pharmaceuticals at the I.G. Farbenindustrie plant, Elberfeld, Germany. 1945. C105 XXV-54
141p \$1.00
- Philips, H. J. PB 228 (I-8)
The H. V. Organon pharmaceutical factory. 1945. C105 XII-24
27p +2c
- Richardson, R. E. PB 249 (I-8)
C. H. Boehringer Sohn, Ingelheim am Rhein, Germany. 1945. C105 XXV-9
7p \$.10
- Schmidt, Otto T. and Mericke, Erich PB 52192 (IV-753)
The synthesis of digitalose. Oct 1946. Text in German. FIAT FR 963
18p \$.25
- Swengard, W. M. PB 56895 (V-73)
Production of pharmaceutical and industrial enzymes in Southern Germany. Jan 1947. FIAT FR 910
38p \$1.00
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Trifluavine, surfen, P-60, and boveflavine. Sep 1946. FIAT FR 868
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- Woodworth, W. M. and others. PB 31616 (II-548)
Pharmacology and malariology in Japan, civilian and naval. Jan 1946. Rev Tech Mis Japan M-12
120p \$3.00
- DYESTUFFS**
- Grimes, Henry D. PB 16098 (I-106)
Dyeing and finishing of wools and worsteds in Germany. Dec 1945. FIAT FR 643
13p \$.50
- Holmes, P. C. PB 22409 (I-152)
German dyestuffs and intermediates; sodium hydroxylate, sodium sulphate industries. Feb 1946. BIOS FR 271
22p \$.75
- Leader, Percy J. PB 179 (I-6)
I.G. Farbenindustrie Mainkur, Frankfurt on Main. 1945. C105 XX-3
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- Rabold, C. Morris. PB 16860 (I-1295)
Observations on dyeing and finishing methods in Germany. Dec 1945. FIAT FR 644
173p \$.45
- Robitschek, F. O. PB 15157 (I-139)
Instructions for the preparation of the dyestuff Filterlauren Spritzlich and Filter-blauurin Wasserlöslich. Feb 1946. Text in German. J104 64
59p \$.25
- Smith, Thomas R. PB 12184 (I-671)
The dyeing of hosiery in Germany. Dec 1945. FIAT FR 555
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- Smith, Thomas R. PB 27524 (II-307)
The dyeing of spun rayon and rayon filament yarn in mechanical apparatus in Germany. Dec 1945. FIAT FR 645
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- U.S. Field Information Agency. PB 66134 (V-942)
Technical, Process details for preparation of two I.G. Farbenindustrie, Hoechst, dyestuffs. Mar 1947. FIAT TB T-7
3p \$.25

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- Batillaud, V. L. and others. PB 41228 (III-250) Report on dams and hydro-electric schemes in South West Germany. October 1945. BIOS FR 528 item 33. 92p \$2.50
- Black, L. H. and others. PB 31249 (II-62) Report on investigation of the design and operation of high voltage networks in central Germany. Jun 1945. BIOS FR Report 183 item 33. 104p \$2.75
- Bucher, J. B. PB 34733 (III-17) The Ljungström turbines in Germany. Jun 1946. BIOS FR 500, item 31. 105p \$2.75
- Burnham, Kenneth. PB 4357 (I-418) Report on Robert Bosch G.m.b.H., Stuttgart, Germany. 1945. C105 XXXI-9 item 26. 93p \$2.50
- Carmichael, D. PB 132 (I-17) Interrogation of Dr. George Otto Erb, at Maria Veen a 5660, near Comsfeld. Electric detonators--types of fuzes. 1945. C105 ER 146. 70p \$.10
- Combined Intelligence Objectives PB 103 (I-11) Subcommittee. Assessment report. May 1945. C105 ER 34. 49p \$.10
- Combined Intelligence Objectives PB 109 (I-12) Subcommittee. Gutehoffnungshütte, Sterkrade/Ruhr Elektrotrades. Jun 1945. C105 ER 50. 49p \$.10
- Dauber, Harry PB 18781 (I-1398) Report on selenium dry rectifier developments. Jan 1945. FIAT FR 706. 410p \$1.25
- Ewald, Lt. G. W. PB 404 (I-61) Production of electric cable and molded rubber to metal bonded products. Naval Tech. Mission Europe TR 78-45. \$1.0
- Fraser, D. S. and others. PB 375 (I-4) Report on Alpine chemische Werke, A.G. Schafleiten, nr. Kufstein, Austria. 1945. C105 ER 297. 4p \$.10
- Freebody, J. W. and others. PB 34730 (III-82) Design and operation of telegraph apparatus and teleprinter switching systems in Germany. May 1945. BIOS FR 583. 52p \$1.50
- Gänger, Berthold. PB 63885 (IV-117) Conduction of high tension electrical currents in cables embedded in high pressure atmosphere. FIAT FR 778. 26p \$.75
- Gerdan, G. E. PB 32158 (II-812) German electroplating industry. Oct 1945. Feb 1946. BIOS FR 429 item 21. 98p \$2.50
- Germany, Reichsminister für Bewaffnung und Munition. PB 25562-S2 (V-101) Werkblatt für die Verwendung der selen-gleichrichtersaulen der Firmen Allgemeine Elektricitäts-Gesellschaft, Berlin, Süddeutsche Apparate-Fabrik G.m.b.H., Nürnberg, Siemens-Schuckertwerke A.G., Berlin-Siemensstadt. (Memorandum on the application of selenium rectifier piles manufactured by the Allgemeine Elektricitäts-Gesellschaft, Berlin, the Süddeutsche Apparate-Fabrik G.m.b.H., Nuremberg, and the Siemens-Schuckert-Werke A.G., Berlin-Siemensstadt. Jul 1943. FIAT FR 671, Sup. Text in German. 6p \$.25
- Graves, Herbert C., Jr. PB 11195 (I-692) Survey of low-voltage, air circuit breakers practice, Germany. 1945. FIAT FR 512. 30p \$.75
- Gripping, Ravenel, and Hold, F. R. PB 59 (I-12) Drs. Klein and Larbs. Jun 1945. C105 ER 139. 2p \$.10
- Habicht, H. R. PB 87 (I-12) Hauptauskuss Elektrotechik (list of underground plants of the electrical industry). Jul 1945. C105 ER 238. 3p \$.10
- Henne, H. W. PB 55582 (V-768) Review of the design of submerged hydro-electric power plants (System Arno Fischer). Jan 1947. FIAT FR 1010. 42p \$1.00
- Hammond, J. W. and others. PB 60679 (V-198) Characteristics of Japanese naval vessels, article 5; Shipboard electrical equipment. Feb 1946. NAVTECHMISJAP S-01-5. 414p \$10.50
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- Hertz, Herman and Rothe, L. E. PB 18775 (I-123) Carburetors for automobiles as produced in Germany. Dec 1945. FIAT FR 612. 13p \$.50
- Hunt, G. L. PB 26 (I-13) TEKA DE electric valve factory--C. F. Weiss textile mills, Helmbrichts; Siemens & Halske telephone equipment factory Hanoversch mills, Azch, Czechoslovakia. Jun 1945. C105 ER 67. 3p \$.10
- Hunter, R. M. PB 204 (I-16) The electrochemical industry, Bitterfeld, area. C105 XXIV-22, item 22. 26p \$.25
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- Jensen, Otto. PB 3477 (I-204) Report on high voltage switch gear. 1945. FIAT FR 514. 39p \$1.00
- Jochum, Theo. B. PB 1273 (I-208) Survey of electrical control devices in Germany. FIAT FR 224. 25p \$.75
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The manufacture of artificial leather tanning agents from waste sulphite liquor at Zellstofffabrik Waldhof, Mannheim-Waldhof. ndd. BIOS FR 167.
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German glove leather tanning industry. 1945. FIAT FR 451.
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Manufacture of plywood and related products
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Dr. Butefish, a Director of L. G. Farbenindustrie and member of its executive technical committee, previously at Leuna, and an expert on coal hydrogenation. May 1945. CIO5 ER 41.
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Report on visit to Forestry Institute.
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Resin filled fiberboard of the Malig Homogenholz-Werke, Dec. 1945. FIAT FR 572.
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Coleman, Donald G.
Summary of investigator reports on technical industrial forest products developments in Germany. 1945. FIAT FR 571.
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Mueller & Montag G.m.b.H. FIAT FR 259.
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Machine tools—Leipzig, Germany. May-Jun
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German oil seal manufacturers. Jan 1946.
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Textile machinery: reports on machinery for drying silk, rayon and cotton in piece form; film-worsted factory; high speed winding machines and sizing machines for cotton, wool and rayon; drying and carbonizing machines. 1945.
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German chemical plant manufacture. n.d.
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A brief summary of certain aspects of the German hard cemented carbide industry in 1945.
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M.A.N., Augsburg and Harburg—the Francis-Kramer Keller, Munich. 1945. CIO5 XXXI-15.
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German diesel engine industry. Sep-Oct
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Craig, William.
Preliminary survey of the German hydraulic industry. Oct-Nov 1945. BIOS FR 278.
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Investigation of steam generating plants and boiler practice in central Germany. Jun 1945.
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Davies, W. John.
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Engine model THM233. Klöckner-Humboldt-Deutz. Drawings and itemized listing (40 items) exhibit "Y".
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Dandy roll making industry. Apr 1946. BIOS FR 327.
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Cari Schenck, Maschinenfabrik Darmstadt-G.m.b.H., Darmstadt: Vibrating tables, balancing and fatigue testing machines. n.d.
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Survey of loading manufacturers of gas compressors. Oct 1945. FIAT FR 396.
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The status of hydraulic research in Germany text in German. May 1947. FIAT FR 1113.
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Summary of visits to German die casting plants, May 18-June 2, 1945. Jun 1945. OPB Report 3.
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- Ornsen, G. H. PB 78208 (VI-548)
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Tansey, A. B. and others	PB 34013 (II-966) Hosiery needle making industry. Mar 1946. B105 FR 397 7p \$.25	Whitmer, H. H. and Snowden, M. PB 947 (I-55) Forschungsteile der Kaiser Wilhelm Gesellschaft, Weissensee formerly Forschungsteile für physik der stratosphäre, Kaiser-Wilhelm. Jul 1945. CIOS ER 277 40p \$.10	Gay, Glen PB 18940 (I-1219) Drägerwerke, Lübeck and Hamburg. Jan 1946. B105 FR 175 14p \$.50
Terrell, E.	PB 165 (I-63) Bombing of U-Boat shelters at Brest. 1945. CIOS VI-19 6p \$.10	Wobden, Lloyd R. and others PB 19709 (I-1441) The "Foinhand" organization in Böttingen. n.d. ARCO 12A 4p \$.25	Gellein, R. L. PB 928 (I-87) German safety fuze and dynamo exploders. CIOS XIVII-62 5p \$.10
Tilley, E.	PB 33 (I-68) Frankfurt and Hoechst, interrogation notes on CIOS trip no. 108, 21 Apr-5 May 1945. Jun 1945. CIOS ER 82 8p \$.10	ORDNANCE	Hess, A. I. PB 516 (I-59) Maschinen für Massenverpackung G.M.B.H. Schultrup. CIOS XVI-72 3p \$.10
Timoshenko, Stephen	PB 80354 (VI-648) The development in theoretical and applied mechanics in German institutions during the war. May 1947. FIAT FR 1167 7p \$.25	Barfield, G. M. and others PB 41222 (III-194) German small arms ammunition (7.92 mm. ball) Feb 1946. B105 FR 340 22p \$.75	Hines, G. M. and McShane E. H. PB 156 (I-20) Researches of Col. J. H. Bingen. Nov 1944. CIOS VIII-9 17p \$.25
Towne, Carroll A.	PB 1256 (I-140) Prefabricated housing in Germany. FIAT FR 114 32p \$1.00	Bean, C. H. PB 127 (I-19) Dynamit A. G. small arms factory, stadeln near Nürnberg. Map coordinate H50/W30. Jun 1945. CIOS ER 121 5p \$.10	Jacobs, T. D. and PB 20541 (I-1417) Melloch, A. S. German production of guns, gun mountings and carriages, and small arms. Feb 1946. B105 FR 284 14p \$.50
Bugley, C. C.	PB 4270 (II-722) Research and development of life saving equipment. Medical aspects of shipwreck. Report to visit to occupied Europe, Jul 1945. (with addendum Mar 1946) Sep 1945. B105 FR 184 56p \$.150	Brierley, James S. and PB 129 (I-18) Constance, P. M. Assessment and partial investigation report on Skoda Werke. May 1945. CIOS ER 131 4p \$.10	Lee, C. and others PB 34037 (II-79) Pyrotechnics with special reference to marker bombs—interrogation of Dr. Feistel. Mar 1946. May 1946. B105 FR 460 3p \$.25
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- Norman, R. W. and others PB 28556 (II-432)
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- Schilling, Robert PB 1840 (I-131)
Development of submerged wading for tanks.
C10S target no. 18/8c. Armored fighting vehicles.
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German practice on suspension and running
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- Selwyn, J. PB 430 (I-62)
Interrogation of Albert Speer and members of
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- Simmons, N. PB 18948 (I-147)
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- Simpson, J. W. and Taylor, G.W.R. PB 319 (I-20)
Rheinmetall-Borsig works, Uterluss; artillery
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- Smith, Fred S. PB 130 (I-20)
Vereinigte Apparatebau Aktiengesellschaft,
a subsidiary Corporation of the Rheinmetall-Borsig
Aktiengesellschaft (target no. C 19/191).
Description of plant and personnel. Jun 1945.
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Japanese propellants. Article 2: research
on non-volatile solvent powders. Dec 1945.
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German pyrotechnic factories. Nov 1945.
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tion. 1945. C10S XXVI-12
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- Winger, E.H. PB 28867 (II-584)
Japanese ordnance equipment internal record-
ers, wave and tide meters, torpedo recovery
gear, under-water locators. Jan 1946. Nav Tec
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- PAINTS**
- Farr, Henry O. PB 15156 (I-906)
The paint, varnish, and lacquer industry of
Germany. FIAT FR 681
66p \$1.75
- Kunze, Walter G. PB 49220 (IV-11)
The manufacture of alginic acid derivatives
and their use as emulgators in emulsion (dis-
tender) paints. Sep 1946. FIAT FR 957
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- McBerly, F.H. PB 30712 (II-395)
Chrome yellow and other pigments at G. Siegle
and Co. May 1946. FIAT FR 811
12p \$.25
- McBerly, Ford H. PB 37993 (III-6)
Litharge and red lead process. May 1946.
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20p \$.50
- McBerly, Ford H. PB 22628 (I-1218)
Molybdate orange pigment. May 1946. FIAT
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16p \$.50
- PAPER INDUSTRY**
- Borgars, S.J. and others PB 39361 (III-161)
Metallized paper capacitors. Jul 1945.
Feb 1946. BIOS FR 226
76p \$2.00
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Report on Robert Bosch (manufacture of metal-
lized paper capacitors) C10S ER 390
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- Cramer, H.L. and others PB 28810 (II-217)
German papermaking industry. Nov 1945.
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- Dey, A. and Crews, J.M. PB 312 (I-19)
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- Eustis, Werner PB 2955 (I-271)
Manufacture of sanitary napkins and allied
products at Camelia works, Vereinigte papi-
werke Kornburg. 1945. FIAT 164
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- Henderson, Fred E. PB 421 (I-00)
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units by the Robert Bosch Co.—Stuttgart,
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- Hill, Allan C. and Campbell, PB 7905 (I-1822)
W. Boyd
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Feldmühle papier und zellstoffe werke, A.G.
Reisholz works, Dusseldorf, Reisholz, West-
phalia. n.d. BIOS FR 46
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- Hill, Allan C. and Campbell, PB 7930 (I-809)
W. Boyd
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Rhrwerke Division, Amsberg, Westphalia. n.d.
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W. Boyd
Haindliche papierfabrik, Schongau works,
Schongau, Bavaria. n.d. BIOS FR 47
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J.M. Voith, maschinen fabriken (pulp and
paper machinery dept.) n.d. BIOS FR 45
Up \$.25
- Hill, Allan C. and Campbell, PB 7931 (I-870)
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Lurgi Gesellschaft für Wärmetechnik M.B.H.
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- Hill, Allan C. and Campbell, PB 7932 (I-869)
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Dillwissenstein, Wurttemberg. n.d. BIOS FR 50
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Zellstofffabrik Malof. Mannheim mill, Mann-
heim, Malof. n.d. BIOS ER 52
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- Malcolm, A.M. PB 18907 (I-1423)
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- McGovern, J. N. PB 7735 (I-505)
Manufacture of pulp and paper and related
products from wood in western Germany. 1946.
FIAT 987
179p \$.450
- Owen, Eugene and Joe, PB 49228 (III-867)
Curt G.
Paper and textile machine design, relating
to the manufacture of wadding, facial tissue,
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FIAT FR 861
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- Thornton, J.T. PB 48437 (IV-763)
Polyethyleneimine and its use in paper making.
Oct 1946. FIAT FR 960
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Assembly prints for no. 548 paper making
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- Minslow, C. P. PB 25 (I-177)
Pulp and paper activities in the Mannheim,
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- Bond, F. E. PB 19528 (I-871)
Status of exploitation of photography and
optics in Germany. Jan 1946. FIAT FR 678
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- Brook, G.C. and others PB 20090 (I-1510)
I. G. photopaper fabrik, AGFA, Leverkusen,
near Cologne. n.d. BIOS FR 252
93p \$.250

- Calvert, E.S. and others PB 334 (I-25)
Photographic lenses and optical instruments
in the Paris area. Dec 1944. CIOSS XIII-5
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- Chancellor, P. M. PB 339 (I-23 & I-99)
Film production and methods. Text in English and German. AGFA film. 1945. CIOSS XVII-61
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- Coates, F.H. PB 335 (I-29)
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Antwerp, 1945. CIOSS XVII-10
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Report on the investigation on the production
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- Harcourt, William M. PB 25659 (II-143)
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Japanese naval photography. Dec 1945. Rev
Tec Mis Jap A-39
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The Aluna process. Jun 1946. FIAT FR 812
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Photo-reproduction research of Kalle and Co.
A.G. Index of micro-filmed reports. Jun 1946.
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Steinbecks, Gottingen University, Physical
Institute—Investigation of Cathode ray tube and
Iconoscope camera designs. Jul 1945. CIOSS
ER 257
2p \$.10
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Wiesbaden, Germany
Lichtausverfahren (method for photographic
reproduction). Text in German. May 1943.
FIAT FR 52R
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German patents and patent applications concerning
light sensitive reproduction materials and
summary of patents issued 1917 through
1939. FIAT FR 52B
See individual publications for Prices
- Kalle and Co. A.G., PB 17547s2 (V-1002)
Wiesbaden, Germany
Lichtempfindliche schichten für die
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Lichtempfindliche verbindungen für die
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10p \$.25
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Verfahren zur steigerung der lichtempfind-
lichkeit von lichtempfindlichen schichten
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Verfahren zum entwickeln von diazolichtpaus-
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Feb 1942. FIAT FR 52B
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gkeit von diazotypen (method of increasing the
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Lichtbaumaaterial (material for photographic
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Azokomponenten für die diazotypie (Azo com-
ponents for diazotypes). Text in German.
Jan 1941. FIAT FR 52B
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- Kalle and Co. A.G., PB 17547s12 (V-1002)
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Verfahren zur empfindlichkeitssteigerung von
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the sensitivity of diazo coatings for photo-
graphic reproduction). Text in German.
Aug 1940. FIAT FR 52B
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graphic reproducing material). Text in German.
Dec 1939. FIAT FR 52B
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Lichtempfindliche schichten. (Exhibit A to
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types). May 1942. Text in German. FIAT
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colloid coatings for making reproductions with
tanning agents). Text in German. Dec 1941.
FIAT FR 52B
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Wiesbaden, Germany
Verfahren zur herstellung von positiven
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(method for making positive photographic re-
productions by the use of diazosulfonates).
Text in German. Oct 1941. FIAT FR 52B
70p \$.25
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Wiesbaden, Germany
Lichtempfindliche schichten (light sensitive
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Summary of Kalle patents, 1917 to 1939. n.d.
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Wiesbaden, Germany
Umbau der präparatemaschinen, print lipa
siz. (Diagram of the coating machine, print
lipa 613). n.d. FIAT FR 52B
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(V-1002, V-1003)
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the period 1917 through 1939. Text in German.
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Wiesbaden, Germany
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Wiesbaden, Germany
Entwicklungsverfahren für kopien aus diazoanhydrienen (method of development for copying using diazoanhydrides). Text in German. Sep 1923. FIAT FR 528
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Wiesbaden, Germany
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Rose, J. D.
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Manauer Gummirischaf Fabrik A. G., Manau am Main, n.d. BIOS FR 174 80 \$.25		1. G. Farbenindustrie Laboratory, Leverkusen (miscellaneous chemicals). 1945. C10S XXIV-34 9p \$.10		The manufacture of heavy clay products in Germany. Aug 1945. May 1946. BIOS FR 473. 76p \$2.00		
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The Harburger Gummiwaren-Fabrik, Phoenix, A. G., located in Harburg near Hamburg. 1945. C10S XIIII-3 176p mon. tables \$.75		Continental Gummiwerke A. G., Hanover, n.d. BIOS FR 69 15p diagrs., photos. 3.50		Kyanite and synthetic sillimanite in Germany. Apr 1946. FIAT FR 803. 11p \$.50		
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Synthetic rubber plant, Chemische Werke Höls, Apr 1945. C10S XIIII-21 1250 charts, drawings, photos, tables \$.75		Butadiene Catalysts		Clay mining in the Westerwald District of Germany. Mar 1946. FIAT FR 771. 11p \$.50		
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Examination of Albert Speer and members of
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Die zerstörungsfreie prüfung in der auto-
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(The practice of nondestructive examination of
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Schnellbestimmung des magnesiumgehaltes von aluminummagnesiumlegierungen auf röntgenographischen wege. (Rapid determination of the magnesium content of aluminum-magnesium alloys by X-raying methods). Aug 1942. FIAT FR 535, Supp. 44.
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Über die bei röntgen-interferenzlinien auftretenden erscheinungen der interferenzpunktstrahlung und der kantigen linienbegrenzung. (Interference phenomena of points scattering and angular line displacement appearing in X-ray interference lines). Aug 1944.
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Das interferenz-zählrohr als hilfsmittel der feinstrukturorschung mit röntgenstrahlen. (Interference counting tube as aid in fine grain examination with X-rays). Feb 1940. FIAT FR 535, Supp. 47. (Text in German).
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- Müller, C. H. F., A.G. PB 17551s48 (V-203)
Hüller-hochleistungs- "Metalix" -röntgenröhren für feinstrukturuntersuchung und spannungs-messung mit 4 lindemannfenstern. (Hüller high power X-ray tubes "Metalix" for fine structure examination and tension measurement with four Lindemann-glass windows). Text in German. FIAT FR 535, Supp. 48.
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Enige amendements zerstörungsfreier prüf-verfahrenen in den Niederlanden. (some applications of nondestructive examination methods in the Netherlands). Oct 1941. (Text in German). FIAT FR 535, Supp. 20.
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Über ein neues verfahren zur messung der dicke dünner überzusichten mittels röntgen-rückstrahlauflaufen. (A new method for measuring the thickness of thin coatings by means of X-ray photographs). Aus 1944. (Text in German). FIAT FR 535, Supp. 41.
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- Report on D1W 5410 formulated on the basis of the meeting on Jan. 1, 1943; guide-lines on the technical X-raying and Gamma-raying of metallic raw materials. Jan 1943. (Text in English and German). FIAT FR 535, Supp. 3.
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Die anwendung von röntgendiffraktion bei der untersuchung geschweißter brücken. (Use of X-raying in the examination of welded bridges). Apr 1940. (Text in German). FIAT FR 535, Supp. 30.
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Zerstörungsfreie röntgenographische korngrößenbestimmung. (Nondestructive X-ray de-termination of grain size). Aug 1944. FIAT FR 535, Supp. 40. (Text in German).
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Kleinröntgenapparat "Kristalloflex" für feinstrukturuntersuchungen (4kv). Z.74-3; Siemens-kleinröntgenapparat (4kv) für fein-strukturuntersuchungen, Z.74-4. (Small X-ray apparatus "Kristalloflex" for fine structure ex-amination (4kv); Siemens small X-ray apparatus (4kv) for fine structure examination). 1936-1937. FIAT FR 535, Supp. 49.
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Verfahren zur zerstörungsfreien prüfung von werkstücken, besonders von schwelwüthen. (Methods of nondestructive examination of work pieces, especially welds). Text in German. 1939. FIAT FR 535, Supp. 37.
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Verbesserung von leichtmetall-kohlellenguss durch röntgenkontrolle. (Improvement of light-metal chill casting by X-ray control). 1941. FIAT FR 535, Supp. 25. (Text in German).
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The non-destructive testing of materials and x-ray protection methods. n.d. B105 FR 203.
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ultra-sonic research and development in X-ray equipment, Siemens-Reiniger Merk, A.G., Erlangen, n.d. B105 FR 212.
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Die anwendung des zährlrohrs in der zerstörungsfreien werkstoffprüfung. (Use of the counter tube in a nondestructive material ex-amination). 1941. (Text in German). FIAT FR 535, Supp. 27.
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Trost, A.	PB 17551s7 (V-203)	Verse, H.	PB 17551s10 (V-200)	Widemann, H.	PB 17551s31 (V-201)
Ermittlung von Rissen und messung der Riss-tiefe in metallischen Werkstoffen durch elek-trische Spannungsmessung. (Determining cracks and measuring crack depths in metallic materials by means of electric voltmeters). Aug 1944. (Text in German). FIAT FR 535, Supp. 57.		Zur Frage der Filmschwarzungsunterschiede beim Betrieb von grobstruktur-röntgenapparaten an verschiedenen Netzen. (The question of difference in film density in the operation of coarse material structure X-ray examination on various power lines). Aug 1944. FIAT FR 535, Supp. 10. (Text in German).		Über abnahmeprüfung von giesserei-holzmodellen mit Hilfe der röntgendiffraktmethode. (Acceptance tests of wooden molds for foundries by means of X-ray). Mar 1940. FIAT FR 635, Supp. 31.	
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Zerstörungsfreie Werkstoffprüfung mit Röntgen- und Gammastrahlen. (Testing of material by X and gamma rays without destruction of the material). Technik in Einzelherstellungen. (Band I). 1944. (Text in German).		Report on the Siemens-Reiniger Werke A/G at Erlangen. Jul 1945. C105 ER 270.		Die Röntgenuntersuchung von Schweißnahten an Dampfkesselnanlagen. (X-ray examination of welding seams in steam boiler installations). May 1941. (Text in German). FIAT FR 535, Supp. 24.	
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Production of aluminum. Jun 1946. FIAT FR 524.		Organization of Telefunken Radar, Signals Communications, Optical Devices. Apr 1945. C105 XXXI.		Preliminary reports on aeronautical activities at Darmstadt. Apr 1945. C105 ER 2.	
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60	39631	101	18914	226	39351
53	39634	104	19269	227	19682
BIGS ER—BRITISH INTELLIGENCE OBJECTIVES SUBCOMMITTEE EVALUATION REPORTS		106	28750	235	22165
BIOS ER NO.	PB NO.	107	18915	235	23550
52	7924	109	18916	237	34003
345	15421	110	48245	239	34004
582	40512	111	7915	240	25646
565	40513	112	7914	243	34005
		113	7904	247	22184
		116	7935	248	20089
		116	28951	251	28748
BIGS FR—BRITISH INTELLIGENCE OBJECTIVES SUBCOMMITTEE FINAL REPORTS		118	18918	252	20090
BIOS FR NO.	PB NO.	119	5584	253	28954
1	18894	120	18919	254	28955
2	27314	121	18920	257	34735
4	7922	122	18921	260	34008
5	18895	123	49244	261	18950
7	18897	125	18922	262	20091
8	27315	125	18923	263	18951
10	18898	127	18924	265	22650
11	18899	128	18925	266	18953
13	7921	129	18926	266	18953-3
17	19272	131	18926	271	22409
19	7931	135	18927	272	20664
20	7932	136	19257	273	25555
25	19271	143	48422	274	20468
26	19577	145	19256	274	20468-S
28	20469	147	18928	275	23606
30	18901	148	18929	275	27712
32	18902	150	28391	278	34009
35	31248	151	18930	279	20563
36	20656	152	18931	281	19683
39	18903	153	25553	282	20092
40	18904	155	18932	283	20467
45	7927	156	18933	287	25559
46	7928	157	18934	288	20540
47	7929	158	18935	289	20539
48	7930	161	19599	291	25665
		162	23647	290	20093
		164	18936	292	20537
		165	18937	294	25665
		167	18938	295	34010
		170	18939	296	34011
		171	44954	297	28751
		172	20462	298	27918
		173	20088	299	20087
		174	20463	300	27711

(45)

BIOS FR NO.	PB NO.	BIOS FR NO.	PB NO.	BIOS FR NO.	PB NO.
302	20538	417	27702	572	46388
305	23817	419	31252	574	39729
312	23810	420	34025	575	33259
314	23857	422	34027	577	44952
316	20086	423	34028	582	39741
318	34014	424	28752	583	39730
319	25688	425	34029	586	44950
322	28555	427	34030	587	41291
323	25551	428	34031	588	34731
325	25658	429	32158	589	44949
327	25552	431	32574	591	41229
328	34737	433	34032	594	42742
331	25650	435	34033	598	44945
333	25587	439	27719	601	41233
334	25641	440	28554	602	44944
335	25588	442	34039	602	44944-8
336	20641	445	31253	604	41239
337	25680	450	34035	608	42770
338	30711	452	34036	612	42743
339	34018	455	23799	613	49220
340	41232	460	34037	617	48433
341	25647	465	28851	621	41231
343	32157	466	34039	622	41237
344	34012	468	34040	624	44955
345	25550	471	32159	630	41236
346	48423	472	41230	633	46397
347	34013	473	34041	634	41235
348	25591	474	34745	636	41240
349	23858	476	39352	637	48432
350	25553	477	44953	638	41243
351	25655	478	31278	639	41244
352	25560	482	34043	640	49218
353	28895	484	34044	645	46398
354	25652	485	32552	648	49203
355	27713	493	31237	650	48444
356	28894	494	42740	664	49272
357	27124	495	46287	670	42745
358	25648	498	32578	676	42746
359	25687	499	39351	681	45241
360	25649	500	34733	683	45252
362	32573	501	28890	685	49219
363	23816	502	44934	687	45251
364	25666	504	28889	689	49986
365	31251	506	40290	697	49235
366	25592	507	28887	698	45250
367	28556	508	28886	702	45248
368	25593	509	28885	710	45247
369	40120	510	28884	711	45243
370	40121	511	28883	715	45245
371	25594	516	32577	716	47725
373	23856	518	32565	719	45246
374	25595	523	32580	720	47724
375	27710	524	31280	741	47723
379	27708	525	31254	783	47719
381	44936	528	41228	789	47722
382	31236	531	34734	750	47721
386	25646	533	32566	751	49198
387	49217	534	41292	758	47718
391	34738	537	32567	757	47716
392	34015	537	33567-\$	759	47715
393	28753	541	31279	772	52669
395	34017	543	40288	800	49192
396	28557	545	32568	814	40350
397	25659	546	44951	824	52862
398	25658	549	32570	839	52873
399	34019	551	32571		
400	44948	552	33268		
401	34020	553	34735		
402	39350	554	34742		
403	34021	556	34739		
404	34022	557	34744		
406	34023	560	34743		
408	33267	562	34740		
413	34732	564	32572		
414	31277	567	39353		

BIOS—BRITISH
INTELLIGENCE OBJECTIVES
SUBCOMMITTEE PRELIMINARY
REPORTS LIST

BIOS PRL NO.	PB NO.
144	20395
1504	30585
151	25749

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BIOS PRL NO.	PB NO.	CIOs—COMBINED INTELLIGENCE OBJECTIVES SUBCOMMITTEE ROMAN NUMERAL SERIES	CIOs NO.	PB NO.	CIOs NO.	PB NO.
209	33297		I-2	151	XV-32	372
217	27724		I-8	167	XVI-2	230
223	37975		I-11	254	XVI-5	173
225	30536		I-12	255	XVI-1	259
228	33298		I-17	321	XVI-2	174
235	23225		II-1	160	XVI-3	313
236	33299		II-6	267	XVI-8	279
249	33301		II-7	331	XVI-9	325
253	33303		II-8	168	XVI-10	335
254	25755		II-11	170	XVI-11	280
262	27725		II-12	322	XVII-1	175
263	28583		II-13	223	XVII-3	910
264	28582		IV-1	232	XVII-6	231
278	33278		IV-2	171	XIX-1	176
294	33280		IV-5	171	XIX-2	258
332	31839		IV-6	171	XIX-5	177
336	34053		IV-11	171	XX-1	232
339	34054		IV-12	171	XX-3	179
340	36921		IV-14	171	XX-6	346
375	36922		V-1	324	XX-8	314
377	36927		V-2	323	XX-9	181
414	40511		V-3	332	XX-10	182
421	36924		V-5	171	XX-11	183
423	36920		V-6	165	XXI-1	315
426	40510		V-19	373	XXI-3	347
427	35929		VI-1	165	XXI-4	348
428	48652		VI-7	332	XXI-8	233
432	48653		VI-19	165	XXI-9	155
434	48654		VI-22	373	XXI-11	316
453	48666		X-16	228	XXI-13	234
455	48503		X-22	373	XXI-14	235
458	48505		X-28	362	XXI-15	281
461	48504		XI-1	327	XXI-16	185
470	48312		XI-4	161	XXI-17	166
472	48667		XI-22	256	XXI-18	186
477	48652		XI-10	962	XXI-19	187
479	48653		X-2	327	XXI-20	188
484	48659		X-6	332	XXI-20	188
489	48506		X-14	228	XXI-21	189
490	48311		X-16	373	XXII-1	190
507	48310		X-22	373	XXII-3	192
511	48308		X-28	362	XXII-4	193
512	48493		XI-1	333	XXII-5	194
513	48494		XI-4	342	XXII-6	260
522	48309		XI-4	342	XXII-8	195
523	48313		XI-5	257	XXII-9	196
533	48495		XI-7	152	XXII-10	236
534	48496		XI-10	157	XXII-12	237
536	48497		XI-13	344	XXII-13	238
537	48498		XI-17	311	XXII-16	282
547	48499		XI-22	256	XXII-17	239
548	48500		XI-1	327	XXII-18	197
554	48492		XI-1	327	XXII-19	198
555	48501		XI-6	269	XXII-20	240
570	48314		XI-8	153	XXII-21	199
583	48315		XI-14	342	XXII-22	336
584	48654		XI-14	342	XXII-23	241
595	47750		XI-20	312	XXII-25	200
597	47758		XI-21	345	XIII-V-1	261
604	47766		XI-24	228	XIII-V-2	329
609	47752		XIII-5	334	XIII-V-3	317
610	47753		XIII-5,7	529	XIII-V-4	318
611	47759		XIII-8	229	XIII-V-5	242
617	47751		XIII-9	229	XIII-V-9	283
618	47756		XIII-10	158	XIII-V-10	349
620	47757		XIII-11	273	XIII-V-11	201
635	47760		XIII-12	363	XIII-V-12	350
639	47765		XIV-2	274	XIII-V-13	243
656	47744		XIV-3	229	XIII-V-14	244
657	47743		XIV-6	164	XIII-V-16	245
662	47742		XIV-7	326	XIII-V-17	370

CIOS NO.	PB NO.	CIOS NO.	PB NO.	CIOS ER NO.	PB NO.
XXI-V-19	153	XXVI-1-13	1711	49	21
XXI-V-20	246	XXVI-1-15	515	50	109
XXI-V-21	203	XXVI-1-16	400	53 (h)	110
XXI-V-22	204	XXVI-1-19	504	53 (k)	111
XXI-V-25	154	XXVI-1-23	519	53 (l)	430
XXI-V-30	205	XXVI-1-32	361	53 (o)	22
XXI-V-49	152	XXVI-1-37	929	60	114
XXI-V-61	159	XXVI-1-44	421	64	23
XXV-1	284	XXVI-1-48	418	65	24
XXV-3	319	XXVI-1-53	404	66	25
XXV-4	285	XXVI-1-52	928	67	26
XXV-5	247	XXVI-1-71	253	69	117
XXV-7	286	XXVI-1-76	510	70	27
XXV-11	275	XXVI-1-77	422	71	28
XXV-13	309	XXVI-1-92	516	76	31
XXV-14	351	XXVI-1-1	377	77	299
XXV-15	270	XXVII-1-8	522	78	119
XXV-16	320	XXVII-1-13	517	79	32
XXV-18	205	XXVII-1-20	379	80	120
XXV-19	207	XXVII-1-31	482	82	33
XXV-20	208	XXVII-1-36	417	84	34
XXV-21	355	XXVII-1-38	425	85	35
XXV-22	262	XXVII-1-43	945	86	36
XXV-24	287	XXVII-1-47	980	87	121
XXV-25	288	XXI-X-13	488	88	37
XXV-27	289	XXI-X-19	960	89	38
XXV-28	271	XXI-X-25	936	92	122
XXV-29	209	XXI-X-27	1838	93	123
XXV-30	210	XXI-X-30	1836	95	39
XXV-31	211	XXI-X-34	1851	97	124
XXV-32	212	XXI-X-35	489	98	40
XXV-33	213	XXI-X-41	1845	105	432
XXV-34	214	XXI-X-42	1844	105	43
XXV-35	297	XXI-X-52	1842	107	433
XXV-36	369	XXI-X-57	1840	109	44
XXV-38	352	XXI-X-59	935	110	45
XXV-42	263	XXI-X-60	1841	111	46
XXV-44	215	XXX-6	1110	117	434
XXV-45	268	XXX-38	970	118	125
XXV-47	276	XXXI-4	4348	119	300
XXV-48	216	XXXI-8	4351	120	126
XXV-50	277	XXXI-9	4357	121	127
XXV-51	278	XXXI-25	4281	122	49
XXV-52	217	XXXI-41	16684	123	50
XXV-54	248	XXXI-1-25	4298	124	128
XXVI-1	290			125	51
XXVI-5	264			126	52
XXVI-9	246			127	53
XXVI-12	364			128	54
XXVI-14	272			129	55
XXVI-19	219			130	56
XXVI-22	356			131	129
XXVI-23	357			132	130
XXVI-25	337			134	57
XXVI-27	328			135	301
XXVI-36	356			139	59
XXVI-37	250			140	50
XXVI-46	338			142	61
XXVI-47	223			143	131
XXVI-48	224			144	52
XXVI-50	225			146	132
XXVI-51	226			147	133
XXVI-52	514			148	134
XXVI-55	368			150	55
XXVI-56	251			151	435
XXVI-58	340			152	135
XXVI-59	339			155	137
XXVI-61	327			156	436
XXVI-63	366			158	66
XXVI-72	518			159	138
XXVI-73	252			170	57
XXVI-77	501			171	437
XXVI-78	291			172	68
XXVI-80	367			173	139
XXVI-87	293			174	302
XXVI-1	356			177	69

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COIS ER NO.	PB NO.	FIAT FR NO.	PB NO.	FIAT FR NO.	PB NO.
180	70	67	1243	291	22564
182	71	68	1244	292	1302
183	140	71	1245	293	1303
184	72	72	1245	294	1304
185	141	79	1248	295	1305
186	142	81	1249	297	1306
188	143	82	1250	299	1307
189	73	88	1252	307	12963
191	75	89	1251	308	22421
195	144	90	1253	309	8004
205	303	92	1254	311	8005
207	304	94	1255	312	22422
211	439	95	1197	313	12953
216	440	96	2427	314	22423
217	148	101	15169	315	1026
223	80	102	1257	315	6344
232	83	105	1724	319	14522
233	84	107	20354	329	5346
235	85	114	1258	330	6347
237	85	115	1259	347	4495
238	87	125	1260	350	5348
240	88	138	16168	352	1309
241	149	144	11374	353	1310
251	89	158	32540	362	1315
253	90	164	2455	364	1316
254	91	165	2455	365	1317
257	92	167	2458	366	1318
258	443	168	2459	368	7737
252	93	169	2460	369	22462
253	94	169	3872	370	1319
265	95	172	7999	373	1321
269	444	173	12953	374	1322
270	305	176	17544	376	1323
272	445	178	6340	377	1324
277	447	179	1261	378	1325
278	448	181	1262	379	1326
281	306	182	1263	380	1327
289	376	183	1264	381	1328
291	450	195	1266	382	1329
297	375	202	1267	383	1330
304	451	206	1268	384	1331
310	374	212	1269	385	27520
329	97	213	1270	386	27520-S
340	466	215	1271	387	1333
342	98	223	1272	388	1334
345	467	224	1273	389	1335
347	468	225	1274	394	1332
348	469	229	1275	396	12510
		230	1276	397	1339
		235	1277	398	7069
		237	1278	401	6349
		237-238	27825	402	5350
		239	1279	406	16099
CVR MR NO.	PB NO.			407	7738
226	77127	240	6341	420	6352
255	75889	241	1280	409	3179
260	76984	244	1281	412	17560
269	76945	257	1282	413	34725
323	76922	258	1283	415	18785
353	76827	259	1284	416	7739
443	76518	260	6343	418	7741
482	76557	261	1285	419	6351
		254	6342	420	22886
		271	1286	423	7744
		274	1289	425	22441
IAT—FIELD INFORMATION AGENCY, TECHNICAL FINAL REPORT		275	1290	426	7745
IAT FR NO.	PB NO.	276	1291	429	7746
9	1242	277	1293	431	7747
37	1122	282	1294	432	37804
38	22413	283	1295	434	6353
43	13729	285	1296	438	3471
56	1130	286	1297	441	19710
64	14519	287	1288	444	6355
66	14455	288	1299	446	36853
		289	1300	447	3450
		290	1301		

FIAT FR NO.	PB NO.	FIAT FR NO.	PB NO.	FIAT FR NO.	PB NO.
448	7749	528	17547-526	535	17551-337
451	3859	528	17547-527	535	17551-338
454	3875	528	17547-528	535	17551-339
455	3876	528	17547-529	535	17551-340
456	3871	528	17547-530	535	17551-341
458	3870	528	17547-531	535	17551-342
460	3879	528	17547-532	535	17551-343
462	17549	528	17547-533	535	17551-344
467	6360	528	17547-534	535	17551-345
468	12183	528	17547-535	535	17551-346
470	8008	528	17547-536	535	17551-347
473	15137	528	17547-537	535	17551-348
474	15138	528	17547-538	535	17551-349
475	3860	528	17547-539	535	17551-350
477	3473	528	17547-540	535	17551-351
478	7751	528	17547-541	535	17551-352
479	7752	528	17547-542	535	17551-353
480	7753	528	17547-543	535	17551-354
481	3461	528	17547-544	535	17551-355
485	7754	528	17547-545	535	17551-356
486	14527	528	17547-546	535	17551-357
487	7735	528	17547-547	536	17552
488	6261	528	17547-548	537	14524
489	3481	528	17547-549	542	3892
490	7755	528	17547-551	545	14526
491	23445	528	17547-552	546	13757
492	7756	528	17547-553	547	17555
493	19252	528	17547-554	548	17554
494	11196	528	17547-555	549	16672
495	18787	528	17547-556	550	14525
497	7757	528	17547-557	553	32547
497	17550	528	17547-558	554	18788
499	7735	528	17547-559	555	12184
500	3474	528	17547-560	556	16673
501	5362	528	17547-561	557	13758
502	34606	528	17547-562	561	14523
508	7759	530	40314	563	22654
509	27435	531	18786	564	22655
511	3475	532	04315	565	3472
512	11195	534	25635	566	11194
513	67584	535	17551	567	11174
514	3477	535	17551-52	568	17559
516	3478	535	17551-53	571	8285
518	7760	535	17551-54	572	31590
519	7761	535	17551-55	573	17558
519	7761-5	535	17551-56	575	52184
521	25634	535	17551-57	577	17557
523	4800	535	17551-58	580	22442
524	44678	535	17551-59	581	23645
526	7762	535	17551-510	582	18933
527	3469	535	17551-511	583	18790
528	17547	535	17551-512	589	32583
528	17547-5	535	17551-514	590	25636
528	17547-52	535	17551-515	591	27522
528	17547-53	535	17551-516	593	23644
528	17547-54	535	17551-517	594	40313
528	17547-35	535	17551-518	595	17584
528	17547-56	535	17551-519	596	17583
528	17547-37	535	17551-520	600	30298
528	17547-58	535	17551-521	601	6363
528	17547-39	535	17551-522	602	27437
528	17547-510	535	17551-523	603	32546
528	17547-511	535	17551-524	604	34723
528	17547-512	535	17551-525	605	22652
528	17547-513	535	17551-526	606	17584
528	17547-514	535	17551-527	607	34722
528	17547-515	535	17551-528	608	44656
528	17547-516	535	17551-529	609	25637
528	17547-517	535	17551-530	610	37777
528	17547-518	535	17551-531	611	22653
528	17547-519	535	17551-532	612	18775
528	17547-520	535	17551-533	615	32593
528	17547-522	535	17551-534	617	18775
528	17547-523	535	17551-535	619	34807
528	17547-524	535	17551-536	620	40374

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FIAT FR NO.	PB NO.	FIAT FR NO.	PB NO.	FIAT FR NO.	PB NO.
623	28756	719	20532	852	57785
624	18891	750	28908	853	44672
625	27523	754	40283	854	44655
628	18892	755	27379	855	44841
629	48681	757	67697	856	40397
631	44676	761	40389	857	44642
633	17546	765	44667	859	44843
634	48438	766	40284	860	44673
635	22653	767	42654	861	37784
637	7073	768	76032	862	44674
640	31502	769	48435	863	44651
641	18784	771	40376	864	37785
643	16098	773	22625	865	47665
644	16680	774	22626	866	47007
645	27524	775	25818	867	44640
646	32548	778	63885	868	58493
648	44656	779	67571	869	44684
650	44663	780	75895	870	44655
652	68131	782	44957	871	65696
654	37787-5	785	22586	873	48130
664	37787-5	787	44661	875	79807
665	18777	788	44668	876	44638
666	17543	789	30863	877	40398
667	19263	790	40669	878	87009
669	18583	792	45067	879	47009
670	27525	794	40316	880	44677
671	25662	795	48428	881	44663
671	25662-52	796	22627	882	47010
676	16075	797	49231	883	40285
677	27533	798	31496	885	42657
678	14528	799	42655	887	79594
681	15158	800	42771	888	47684
682	39483	802	23642	889	47773
685	18778	803	38609	890	42556
686	19276	804	22628	891	44657
695	23643	805	34810	893	68128
697	18779	807	37993	894	44690
698	37778	808	44958	895	52560
699	19261	809	32582	896	52259
701	80340	810	33271	897	42288
702	11175	811	30712	898	44652
704	18780	812	32587	899	48420
705	12659	813	77761	900	52261
706	18781	815	44665	903	47526
710	27125	816	33221	905	42659-5
712	19858	817	33222	908	48425
713	25663	818	40351	909	49233
714	28757	819	44670	910	56895
715	42802	820	44671	911	48191
717	16029	821	37994	912	49230
718	44650	822	37781	913	47011
719	19857	823	34811	914	44658
720	20078	824	43457	915	45066
721	15476	825	33218	917	49461
722	27521	826	37995	922	67573
723	37992	829	44659	923	79558
724	34808	830	37788	924	47012
725	40375.	831	34812	925	44662
727	37775	832	33219	927	48126
728	58442	833	37782	928	42656
729	33270	834	40122	929	48234
731	31593	835	42289	933	58447
732	47908	836	34813	935	52163
733	34728	837	44662	936	58441
734	18782	838	44659	940	57502
735	37780	840	37783	941	47774
736	23859	843	75813	942	65685
738	34726	844	44660	944	67694
739	44668	845	40311	945	50902
742	19275	846	40345	946	58440
743	22524	847	40312	949	50890
744	32290	848	36854	955	46441
746	32545	849	44939	957	49229
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981	58445
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983	50901
984	67596
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986	50188
987	65678
989	58451
990	58446
992	58449
993	60889
994	63555
997	57501
1005	78208
1006	60900
1007	52258
1008	52861
1010	65682
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1015	63779
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34	4179
35	4180
40	4181
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45	27131
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1325	21	4495	39	8008	40	17547-522	33	17551-538	43	18924	27
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40348	26	44670	5	47724	6	48500	28	57560	7	67574	27
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40376	38	44677	25	47746	28	48507	28	58440	10	68129	5
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41232	31	44944	19	47759	29	48667	28	58449	24	76518	22
41233	90	44944-S	19	47760	29	48681	39	58451	24	76557	23
41235	39	44945	17	47773	5	48191	13	58701	16	76827	23
41236	22	44948	25	47774	6	48192	37	6010	35	76822	22
41237	12	44949	23	47864	6	50198	9	60679	11	76945	22
41238	36	44950	17	47865	30	49198	9	60680	3	76984	22
41239	31	44951	35	47908	7	49203	31	60681	29	76889	22
41240	17	44952	21	48287	26	49217	21	60886	6	77127	23
41261	13	44953	32	48308	28	49218	20	60887	4	77676	7
41262	8	44954	4	48309	26	49219	23	60888	25	77677	8
41263	17	44955	39	48310	28	49220	39	60889	25	77678	7
41264	17	44956	44	48311	28	49222	19	60890	18	77761	33
42288	4	44957	25	48312	28	49228	32	60900	30	78000	18
42289	4	44958	25	48313	28	49228-S	32	60901	5	78208	30
42654	24	44959	23	48314	28	49229	32	60902	10	78291	25
42655	26	44960	12	48315	28	49230	22	61998-A	35	79558	13
42656	21	44961	8	48372	16	49231	8	61999	6	79584	37
42657	10	44962	5	48373	17	49233	25	63551	15	79588	26
42658	12	44963	25	48374	17	49234	7	63552	4	79691	38
42659	5	44964	24	48375	17	49235	14	63553	39	79694	11
42659-S	5	44965	36	48376	42	49244	2	63554	22	79607	9
42770	31	45066	38	48377	41	49245	31	63555	4	79644	4
42772	25	45067	24	48378	13	49272	7	63777	20	80332	10
42773	21	45241	25	48379	37	49509	41	63778	6	80333	27
42774	23	45243	40	48380	3	49510	31	63779	4	80336	35
42776	25	45245	4	48419	16	49511	17	63780	23	80337	29
42777	13	45246	35	48420	23	49512	42	63781	11	80339	30
42771	30	45247	14	48422	4	49513	32	63885	11	80340	12
42802	36	45248	33	48423	21	49514	31	65678	18	80341	24
43467	27	45250	40	48424	30	49839	13	65679	19	80353	29
44195	1	45251	10	48425	35	49866	35	65680	39	80354	31
44650	3	45252	9	48426	25	52162	10	65681	5	80357	25
44651	17	46388	8	48428	26	52163	5	65682	11	80367	12
44652	38	46397	5	48430	16	52164	13	65683	13	80368	20
44653	9	46398	19	48432	17	52258	3	65684	39	80390	23
44654	7	46441	9	48433	20	52259	10	65685	21	80391	11
44655	6	47007	35	48434	27	52260	14	65685	10		

