

Entry 41 (USB-13)

## SECTION 2. JAPANESE DOCUMENTS

----- [USB-13 Roll No. 1]-----

### 1. Summary Report (Pacific War) (final report):

#### a. General data:

- (1) Preliminary notes.
- (2) Information on Ministry of Imperial Japanese Navy.

----- [USB-13 Roll No. 2]-----

- (3) Type aircraft and tactics recommended for use against small islands (by General Meritt).
- (4) Japanese and United States plans.
- (5) The campaigns of the Pacific War
- (6) The air effort against Japan.
- (7) Lessons of the Pacific War.
- (8) Destruction of Japanese forces.
- (9) Surrender of Japan.
- (10) Interim report on study (3-B-1) entitled "Defense Against Enemy Action Directed at Civilians."
- (11) German document reference, Japanese aeronautical industries.
- (12) Carrier strength—United States and Japanese, 1943.
- (13) Bombing effort required to knock out 12 steel plants in Japan, Korea, and Manchuria.
- (14) Interrogations:
  - (a) Interrogation of Prince Konoye.
  - (b) Interrogation of Lt. Gen. Yoshizumi.
  - (c) Interrogation of Marquis Kido.
  - (d) Interrogation of Prince Higashi-Kuni.
  - (e) Interrogation of Yasuo Otsubo, Governor of Nagano Prefecture.
  - (f) Interrogation of Admiral Toyoda.
- (15) Japanese nitrogen situation.
- (16) Miscellaneous correspondence.
- (17) Miscellaneous photographs.
- (18) Photographs of air targets in Japan.
- (19) Photos of Ominato Naval Base.

----- [USB-13 Roll Nos. 2-3] -----

(20) Photos of air targets in northern Honshu.

----- [USB-13 Roll No. 3] -----

(21) Aerial photo of Hamamatsu.

(22) Maps showing military operations in Pacific and other Miscellaneous maps of Japan.

*b.* Miscellaneous Japanese publications and manuals:

\* (1) The Japanese Army and Navy Air Service Units-Histories of the Army Air Service Headquarters and Flying Brigade and International Flying Squadrons.

\* (2) Answers to USSBS questionnaires on the strategy of the Japanese Army Air Force.

\* (3) Conscript and training system and physical standards for Japanese Army Air Force.

\* (4) Air defense system in Japan.

\* (5) Fourth Air Army operation plan.

\* (6) Journal of law and politics.

\* (7) Miscellaneous manuals pertaining to airfield construction.

\* (8) Aviation magazine and book.

\* (9) Statistics on flight personnel of NAF.

----- [USB-13 Roll No. 3A] -----

\* (10) Manuals pertaining to combat rules for meteorological units.

----- [USB-13 Roll No. 4] -----

\* (11) Manuals pertaining to air tactics training course.

\* (12) Manuals for piloting.

\* (13) Glider piloting.

\* (14) Maintenance of aircraft and basic training for flight duty.

----- [Roll No. 5] -----

\* (15) First parachute group.

\* (16) Manuals pertaining to photography (Army and Navy).

\* (17) Combat regulations for air signal regiment.

\* (18) Report on the general condition of airplane radio equipment.

\* (19) Radio pamphlets for airmen.

\* (20) Radio detachment instruction manual.

\* (21) Radio communication handbook for soldiers.

\* (22) Radio communication instructions.

----- [USB-13 Roll No. 6]-----

- \*(23) Radio communication handbook for officers and NCO's.
- \*(24) Aerial combat, communication reference books.
- \*(25) Ultra short-wave textbook.
- \*(26) Radio equipment, maintenance manual.
- \*(27) Guide to Yangtze River area.
- \*(28) Court record of the Shimpei Tai.

----- [USB-13 Roll No. 7]-----

- \*(29) Survey of intelligence reports.
- \*(30) Translation of Japanese estimates of United States, British, U. S. S. R., German and Italian naval fleets and air forces.
- \*(31) Drill manual (reconnaissance regiment).
- (32) United States submarine claims.

*c.* Preliminary drafts of division reports:

- (1) Medical Division.

----- [USB-13 Roll Nos. 7-8]-----

- (2) Morale Division.

----- [USB-13 Roll Nos. 8-9]-----

- (3) Oil and Chemical Division.

----- [USB-13 Roll No. 9]-----

- (4) Over-all Economics Division.

----- [USB-13 Roll Nos. 9-10]-----

- (5) Urban Area Division.
- (6) Military Supplies Division.

----- [USB-13 Roll No. 11]-----

- (7) Manpower, Food and Civilian Supplies Division.

----- [USB-13 Roll No. 12]-----

- (8) Civilian Defense Division.
- (9) Basic Materials Division.

----- [USB-13 Roll Nos. 12-13]-----

- (10) Capital Equipment and Construction Division.

----- [USB-13 Roll No. 13]-----

- (11) Electric Power Division.

----- [USB-13 Roll No. 14]-----

- (12) Naval Analysis Division
  - (a) Preliminary report.

(b) Report on evaluation of air operations affecting the United States Marine Corps.

(c) Air Support of Pacific Amphibious Operations, published by Commander Air Support Control Units, Amphibious Forces, United States Pacific Fleet.

----- [USB-13 Roll No. 15]-----

(13) Military Analysis Division:

(a) Preliminary report — Japanese Ground Army logistics.

----- [USB-13 Roll Nos. 15-16]-----

(b) Preliminary report — Japanese war plans and Japanese air power.

----- [USB-13 Roll No. 16]-----

(c) Operations of air forces allied with the United States in the war with Japan.

(d) Air operations in China-Burma-India.

(e) Preliminary reports—Army and Navy Air Division.

----- [USB-13 Roll No. 17]-----

(f) Preliminary draft—Operations of the Seventh Air Force.

(g) Preliminary report—Thirteenth Air Force operations in the war against Japan.

(h) Fifth Air Force—Air War against Japan.

----- [USB-13 Roll No. 18]-----

(14) G-2 Division:

(a) Japanese Military and Naval intelligence.

(b) Japanese Intelligence Section G-2, interim report.

(c) Memorandum from H. R. Thurber to Ofstie; comments on (a).

d. Evaluation of Army-Navy-Marine Air Intelligence in the Pacific War (unpublished report—five copies):

(1) Background material for report:

(a) Correspondence:

1. Incoming.

2. Outgoing.

(b) Memoranda.

(c) Conclusions and recommendations.

----- [USB-13 Roll No. 19]-----

(d) Evaluation of Naval Air Intelligence.

(e) Air intelligence evaluation.

(f) Excerpts from outline of the Air Intelligence branch (3).

- (g) Army Air Forces intelligence training.
- (h) Joint Target Group.
- (i) Combat air intelligence.
- (j) Strategic air intelligence.
- (k) Evaluation of air intelligence in the Pacific War.
- (l) Evaluation of air intelligence in the Pacific War.
- (2) Office of Strategic Service—reports.
- (3) The National Intelligence Authority.
- (4) Charts and statistical data.
- (5) Maps.
- (6) Lists of publications.
- (7) Publications and fill-out forms.

----- [USB-13 Roll No. 20] -----

- (8) Kempei Tai, reports on:
  - \* (a) Report on Intelligence. Japanese Army Air Force.
  - \* (b) Japanese Army Air Force report.
  - \* (c) Explanation of Kempei Tai.
  - \* (d) Directory of Kempei Tai officers listed and classified by foreign territories at the end of the war.
  - \* (e) Report on Kempei Tai.
  - \* (f) Diagram of the system Kempei Tai units.
  - \* (g) System of Kempei Tai Command.
  - \* (h) Organization chart.
    - (i) List of all laws, ordinances, rules, and orders which are observed and exercised by the Imperial Kempei Tai forces.
    - (j) Report of the Kempei Tai.
- (9) Summaries, outlines, memoranda, and interrogations:
  - (a) Summaries of division reports.
  - (b) Outlines of division reports.
  - (c) Memoranda.
  - (d) Interrogation.
  - (e) Views on Japanese problems as expressed by Wohltat.
  - (f) Statistical data.
- (10) Memoirs of Prince Konoye; letter by Yamamoto:
  - (a) Memoirs of Prince Konoye.
  - (b) Letter by Yamamoto.

- (11) Notes and worksheets—consisting of two envelopes.  
----- [USB-13 Roll No. 21]-----
- (12) Obsolete drafts (2).
- e.* Air Effort Against Japan (unpublished report).  
----- [USB-13 Roll No. 22]-----
- f.* Interim report of the Bureau of Yards and Docks mission to Japan (unpublished).
- g.* Items of Naval interest in Japan (unpublished report).
- h.* Explosive, Industry Report (unpublished) (consisting of three envelopes).
- i.* Japanese Naval and Merchant Losses During World War II, prepared by the Joint Army-Navy Assessment Committee.
- j.* Japanese Military and Naval Intelligence interrogation (five copies).  
----- [USB-13 Roll No. 23]-----
- k.* Report of the Kempei Tai (three copies. English translations).
- l.* Prominent persons in Japan and Japanese dominated areas.  
----- [USB-13 Roll Nos. 24-35]-----
- m.* Microfilm pertaining to Japanese Naval document (rolls 1 through 13).  
----- [USB-13 Roll Nos. 36-38]-----
- n.* Microfilm record of inventory of Japanese war industries, parts I and II.  
----- [USB-13 Roll No. 23]-----
- o.* Twentieth Air Force bomb plotting technique (two copies) (unpublished report) and data relevant to report:
- (1) Miyazu and Kunda Wan, terminal facilities. [栗田湾]
  - (2) Occupied China railroads north of the Yangtze River.
  - (3) Attacking Japanese communications.
  - (4) Japanese aircraft makers' plates and markings
  - (5) Japanese combat aircraft and aircraft engine industries—attack data.  
----- [USB-13 Roll No. 39]-----
- (6) Japanese aircraft makers' plates and marking Relative importance of the principal Japanese aircraft and engine factories.
  - (7) Loss in aircraft production, estimates by Joint Target Group.
  - (8) Aircraft industry, Joint Target Group, general analysis.
  - (9) Japanese aircraft production.
  - (10) Japanese aircraft manual.
  - (11) Sections X, XI, air analysis of battle for Leyte Gulf.
  - (12) Initial air attack on economic railroad traffic on Honshu.
  - (13) Notes on performance of projectiles and bombs against shore installations.

- (14) Survey of effects of bomb fuse combinations on current enemy targets.
- (15) Employment of heavy bombs against Japanese target.
- (16) Aircraft manufacturing, target systems in the Japanese aircraft industry.
- (17) Specifications for Japanese navy shell and bomb-proof structures.
- (18) Estimates of the Japanese situation.
- (19) Industry target in Hokkaido and in north Honshu.

----- [USB-13 Roll No. 40] -----

- (20) Japanese aircraft production under various patterns of attack.
- (21) Japanese industrial targets.
- (22) Air defense of factories.
- (23) Note on industrial building in Japan.
- (24) Japanese domestic architecture.
- (25) Outline of fire analysis procedure used in RES July 1944.
- (26) Summary of notes on Japanese defense positions on Okinawa.
- (27) Aiming points and direction of attack on fortified towns.
- (28) Burma—use of fire bombs at Myitkyina.
- (29) Night bridge at Mezzercorona.
- (30) Weapons report on survey at CAM ball-bearing plant at Bois Colombes.
- (31) HIA diary issue Nos. 8, 9, and 10.
- (32) Operational assessment of rail interdiction by fighter-bombers attacking open rail lines.
- (33) Repair of railroad bridges by the German Army.
- (34) The paralyzation of a railroad system by fire bombs.
- (35) Relative weapon effectiveness for attacks against marshalling yards in the Cherbourg peninsula.
- (36) Vulnerability of repairs facilities to marshalling yards.
- (37) Air attack on bridges.
- (38) Estimate of effect on Japanese war of Twentieth Air Force operations through 15 January 1945.
- (39) Discussion and conclusions, bombing committee, thirty-second meeting.
- (40) Types of bombs and fuzing for attack of specific of objectives.
- (41) Bombs—chemical, 10-pound, PT1-NP, M74.
- (42) Bomb data sheet No. 2.
- (43) Bombs—incendiary; a study of, for employment by the USAAF.
- (44) Bombs—incendiary, comparison of German, Japanese, and American.
- (45) Bombs-chemical nonpersistent, tactical and strategic, use of.

- (46) Notes on bomb data summary sheets for GP bombs.
- (47) Cluster fragmentation bomb T8 War Department, technical bulletin TB 9-1980-23.
- (48) Test of bomb, incendiary, 500-pound, tail ejection E-16.
- (49) Final report on test of bomb (butterfly) clusters, T-10 and T-11.
- (50) Comparative accuracy test of navy fixed fin rockets and ordnance folding fin 4.5-inch rocket.
- (51) Summary of information on fragmentation bomb clusters, AN-M1A1, AN-1A2, M26, and M27.
- (52) On the characteristics of torpex as a filler in fragmentation bombs.
- (53) Tactical use of bombs and fuzes, No. 2.
- (54) Procedure for compiling TVN for mixed loads.
- (55) Memorandum on the selection of HE bombs and fuzes for industrial targets.
- (56) Types of bombs and fuzing for the attack of various land targets.
- (57) MAE values for United States 500- and 1,000-pound GP bombs-values for various fuzing for visible structural damage.
- (58) Incendiary bomb recommendations for various targets.
- (59) Fuze selection for steel-framed structures.
- (60) Dynamic intrinsic efficiency of the 4-pound IB.
- (61) Damage to industrial structures by 16-inch HC projectiles.
- (62) Aircraft torpedo performance.
- (63) Fragmentation trials at Rest—American 260-pound M81, type T-10, filled TNT.
- (64) Report on damage by shaped charge bomb.
- (65) Report on the effectiveness of bombs and fuzes.
- (66) Effects of bombing on structures.
- (67) Relation between density of incendiary attack and extent, of damage to buildings.
- (68) Bomb bursts (photographs).
- (69) Preliminary report, on effectiveness of 500-pound RDX comp. B2 bombs.
- (70) Fuzing of bombs for aircraft antishipping and antisubmarine attacks.
- (71) Choice of bombs according to the type of fragment damage required.
- (72) Air and earth shock.
- (73) Air burst for blast bombs.

----- [USB-13 Roll No. 41] -----

- (74) Theory of the propagation of shock wave from explosive sources in air and water.



- (75) The effect of air burst on the blast from bombs and small charges.
- (76) Method of determining types of allied bombs used from craters.
- (77) Tests on cratering in sand and clay beaches (Brancaster trials, 11 May-23 May 1944).
- (78) Catering of charges at or near ground level.
- (79) Information concerning terminal ballistics.
- (80) Performance of bombs and projectiles against shore installations.
- (81) Concrete penetration.
- (82) Test of cluster, bomb, fragmentation T-4, E-4.
- (83) United States "butterfly" bombs encountered unexploded at Bhamo, Burma.
- (84) Properties of torpex.
- (85) Report on the 20-pound fragmentation bomb
- (86) Test of bomb, fragmentation 100-pound T-13.
- (87) Advanced fuze and explosive ordnance bulletins.
- (88) Spike-nosed bombs.
- (89) Japanese explosive ordnance.
- (90) Bombing analysis report September and October 1944.
- (91) Aircraft munitions versus specific targets.
- (92) Ammunition, 20-mm. A. A., with dark ignition tracers.
- (93) Ordnance and terminal ballistics.
- (94) Preliminary report on test of incendiary mixture for use in droppable tanks as fire bombs.
- (95) Final report on tests on jettisonable fuel tank incendiary bombs.
- (96) Separable force laws and the time of penetration.
- (97) Marking and defoliation of tropical vegetation.
- (98) Selection of weapons for fighter-bombers against tactical targets.
- (99) Flame attack.
- (100) Terminal kinetic energy of bombs versus altitude of release (60°dive, 300 knots).
- (101) Proceedings of the ordnance board.
- (102) Penetration of jacketed service ammunition, caliber 30 and 50 in sand and clay and normal penetration of 250- to 1,000-pound bombs in soil.
- (103) Use of incendiary bombs by carrier-based aircraft.
- (104) Probability that a merchant ship will sink if hit by aerial bombs or torpedoes.
- (105) Effectiveness of air strikes carried out by 224th Group cooperating with XV Corps.

- (106) Ground survey of E-boat pens at Le Havre.
- (107) General data on Navy, AN-standard, Army and British bombs, Bureau of Ordnance pamphlet 878.
- (108) Lethal and material effects of gunfire and bombing on land targets.
- (109) Striking power of airborne weapons.
- (110) Industrial equipment handbook.

----- [USB-13 Roll No. 42] -----

- (111) PFF operations.
- (112) Standard bombing of bridges.
- (113) Basis for structural MAE's.
- (114) Aircraft munitions versus specific targets.
- (115) Employment of carrier-based aircraft in the war against Japan.
- (116) Japanese targets suitable for attack with Razon and Felix.
- (117) Combustibility.
- (118) Effects of weapons on targets.
- (119) United States Navy projectiles and fuzes.
- (120) Penetration (concrete).
- (121) Formation bombing.
- (122) Test of modified sequence of bomb release in B-29 aircraft.
- (123) Pattern bombing of small targets.
- (124) Method for determining bombing errors.
- (125) Fighter-bomber accuracy, August 1944.
- (126) Estimates of the number of weapons required to damage various jungle targets.
- (127) Dive and glide bombing accuracy achieved on Marcus Island strike of 19 and 20 May 1944.
- (128) Errors in dive bombing.
- (129) Bombing accuracy, point and line targets.
- (130) Dive bombing accuracy, F-4-U-1.
- (131) Dive bombing accuracy of the SBD and F-4-U.
- (132) Assessment of bombing accuracy for the 404th Bombardment Squadron, Eleventh Air Force.
- (133) Assessment of bombing accuracy of the Ninth Bomber Command, 15 January to 1 April 1944.
- (134) A physical theory of the accuracy of bombing from formations of aircraft.
- (135) Accuracy reports from other sources (general).

- (136) Memorandum on aiming accuracy and altitude.
- (137) Notes on A. A. fire.
- (138) Accuracy reports from Seventh Bomber Command.
- (139) Test of SCR-519, over water precision blind bombing radar.
- (140) Tactical bombing analysis and critique.

----- [USB-13 Roll No. 43] -----

- (141) Study of bombing accuracy.
- (142) Seventh Bomber Command flak bulletin.
- (143) Report on PFF (Oboe) operations in February 1945.
- (144) Scores for August and September 1944, effect of transfers and induction of new lead bombardiers on groups' scores.
- (145) Report on bombing accuracy on Berlin operations of 18 March 1945,
- (146) Report on the acceleration integrator bomb release (A. I. B. R.) in the Ninth Air Force.
- (147) Report on bombing accuracy for the months of September and October.
- (148) PFF operations in January 1945.
- (149) Relative accuracy of bombs and rockets.
- (150) Use of strike photographs.
- (151) Plotting the plumb point in air photographs.
- (152) Photo sorties plots as of 1 March 1945.
- (153) A procedure for determining the orientation of aerial photographs by pairs.
- (154) Visual bombing for December, January, February, 1945.
- (155) Target and bomb selection.
- (156) Airborne forward-firing rocket monthly news letter.
- (157) The accuracy of the bombing of Iwo Jima and Chichi Jima.
- (158) Aircraft maintenance and repair.
- (159) Aircraft reports.
- (160) Far Eastern weekly intelligence summary.
- (161) Napalm.
- (162) Japanese targets.
- (163) Photography for target reconnaissance.
- (164) Technical background, effects of bombing on industrial types and standards of interpretation.
- (165) Report of Joint Committee on selection of bombs and fuzes to AAF board, recommendations for modification of.
- (166) Bomb selection and fuzing.

- (167) Possible housed radar installation.
- (168) Assumptions for force requirements.
- (169) Target information.

----- [USB-13 Roll No. 44]-----

- (170) Notes and worksheets (consisting of two envelopes).
- (171) Weapon data, fire, impact, explosion.
- (172) Evaluation of photographic intelligence in the Japanese homeland, one, comprehensive report.
- (173) Evaluation of photographic intelligence in the Japanese homeland, part five, camouflage, concealment, and deception.
- (174) Outline of complete study of strategic industrial targets.
- (175) Carrier strikes against Kure, Japan.
- (176) Reports concerning the operation of the Gilberts as of the period 1 November to 31 November 1945.

----- [USB-13 Roll Nos. 45-51]-----

- p.* Intercepted Domei transmits (consisting of four bundles).

----- [USB-13 Roll No. 51]-----

2. Japan's Struggle to End the War (final report):

- a.* Preliminary draft.
- b.* Charts showing fluctuations and forecasts for the Material Mobilization plan.

3. The Effects of Atomic Bombs on Hiroshima and Nagasaki (final report and preliminary revised drafts):

*a.* Nagasaki prefectural and city government organization:

- (1) Nagasaki prefectural government officials (2) Source: Nakayama, K., head of translation section, Nagasaki Prefecture.
- \* (2) Organization of Nagasaki police department (pre- and post-A-Bomb) (2) Source: Misuna, Y., chief of police section, police department (part Japanese).
- (3) Nagasaki City government officials, chief of marine police, chief of Nagasaki fortified zone, (list of names and titles) (2) Source: Nakayama, K., head of translation section, Nagasaki Prefecture.
- (4) Nagasaki liaison committee members (2) Source: Nagasaki liaison committee.
- \* (5) Data on pre- and post-atomic bomb fire-fighting equipment and personnel (1) Source: Regional fire chief of Nagasaki City, Fujimoto, S. (part Japanese).
- (6) Pre-A-bomb organization of air-defense section of government (2) Source: Public welfare section, police department.

*b.* Nagasaki and Hiroshima population, casualty, and other statistics.

- \* (1) Nagasaki City and Prefecture population figures as of 1 November 1945 (by male and female totals in Gun, Mura, Machi) (2) (part Japanese) Source: Foreign affairs section, prefectural government.
- \* (2) Monthly report on births and deaths in Nagasaki City from January to November 1945 (2) Source: Nagasaki City census registration section (part Japanese).
- (3) Foreign population statistics (1) Source: Statistics section, Nagasaki Prefecture.
- (4) List of schools in Nagasaki with present (5 November 1945) number of students' total and teachers (by schools) (1) Source: Nakayama Gunji, youth education official, Nagasaki prefectural government.
- (5) Nagasaki City population estimates as of 30 June and 18 October 1945 (2) Source: Urakami, Nakaba, chief of rationing, office of department of health, Nagasaki City, via Morale Division, Field Team No. 3.
- \* (6) Atomic-bomb casualty figures (2) (part Japanese) Source: police department public welfare section via sanitation section (cf. C-1).
- (7) Atomic-bomb casualty figures (including figures on those who died after 1 September 1945) (4) Source: Nagasaki prefectural government translation section.
- (8) Notes on atomic-bomb casualties-Compiled by USSBS, G-2, Nagasaki, with attached document on same subject from Tsujimura, Y., head of 2d economic department. Nagasaki prefectural government (1).
- (9) Weather statistics for Nagasaki City, 7-15 August 1945 (complete weather data plus a section entitled "phenomena" is included) (1) (part Japanese). Source: Nagasaki weather station, Nakamura, Katsuji, head.
- \* (10) Report on insured persons killed in the atomic bombings (1) (part Japanese). Source: Life insurance association, 4 Marunouchi, 3 Chome, Tokyo, Japan.
- (11) Japanese Navy personnel present at Nagasaki and Hiroshima when A-bombs were dropped (1). Source: Report to assistant chief of staff, C-2, GHQ. SCAP.
- \* (12) Report on number of households and population of 5 cities of Hiroshima Prefecture (1 November 1945) (4) (part Japanese). Source: Hiroshima prefectural office.
- (13) Material on population and casualties in Nagasaki (1). Source: W/C Bronowski, British mission to Japan.
- (14) Nagasaki Shi and Ken population figures (1 November 45) (1). Source: Ken foreign affairs section..

- \* (15) Weather reports—dates of "A" bombings of Nagasaki and Hiroshima (1) (part Japanese). Source: General central meteorological observatory of Japan in Tokyo.
  - (16) General remarks on population of Nagasaki (1). Source: Lieutenant Colonel LeRoy, Army medical group, ABI.
  - c. Official reports or information concerning investigations on the atomic bombings:
    - (1) Report on damage caused by A-bomb in Nagasaki City (2) Source: Police department, public welfare section (Hoanka).
    - (2) Interview of Commander Shields Warren (MC), USNR, at Omura naval hospital on 21 November 1945, concerning all groups working on "A" bombings investigation, their aims, coordination among them, etc. (2). Also, interviews with Lieutenant Commander Nello Pace, Nav. Tech. Jap, and Major Manuel Berg, Army medical group, for study of "A" bombings (1).
  - \* (3) List of names and addresses of Japanese investigators of "A" bombings (part Japanese). Source: Koremoto, I., sanitation section, Nagasaki prefectural government.
    - (4) Index to official Nagasaki Prefecture reports concerning the "A" bombing. Source: Public welfare section, Nagasaki prefectural government.
    - (5) Preliminary report on the destructive effects of A-bombs (handwritten original and two photo-static copies), photo album and 35 negatives. Source: Yutaka Tanaka, professor at Tokyo Imperial University, 10 March 1946.
  - \* (6) Japanese survey of "A" bombings at Nagasaki and Hiroshima (Japanese original, English translations and corrected copies). Source: Prepared by Dr. Y. Nishina for USSBS, G-2.
- [USB-13 Roll No. 52] -----
- \* (7) Program and report of special conference on research and investigation of damage done by atomic bombings (30 November 1945) (Japanese originals and English translations).
- [Missing] -----
- (8) Assessment by Lieutenant (jg) R. W. Moser giving estimate of damage by A-bomb on specific targets.
  - (9) Material covered by joint commission for the investigations of the effects of the atomic bomb. Source: Lieutenant Colonel G. V. LeRoy, Army medical group (26 November 1945.)
  - \* (10) Eyewitness account of bombing of Hiroshima by Father Siemes of Hiroshima and biographical material about the author (part Japanese).

- \* (11) General report on "A" bombings of Nagasaki and Hiroshima. Source: Commander Ishiwata, Navy Ministry, Tokyo (Japanese and English translation).
- \* (12) General report on "A" bombings of Nagasaki and Hiroshima. Source: Lieutenant Colonel Oya, First Demobilization Ministry, Tokyo (Japanese and English translation).
- (13) Answers to USSBS questionnaire on "Fire" in Nagasaki and Hiroshima "A" bombings. Source: Dr. Nishina's Institute of Physical and Chemical Research, Tokyo.
- \* (14) Observations on the effects of atomic bombing. Source: Geographic Institute, Imperial University of Tokyo.

----- [USB-13 Roll No. 52] -----

- \* (15) Japanese atomic bomb report for the city of Hiroshima, Japan. Source: Governor, Hiroshima Prefecture 21 August 1945 (Japanese original and 8 English translations).
- \* (16) Synopsis report of the air-raid disaster at Nagasaki (2 incomplete copies). Source: Nagasaki Prefecture—Document translated by PDD Team No. 2 (Japanese original and English translation).
- (17) Air-Defense section secret No. 20, supplement No. 10-Air damage report on Nagasaki Shi (9 August 1945). Source: Governor, Nagasaki Prefecture (English translation only).
- (18) Radiation curve graphs and map showing distribution of radioactivity at Nishiyama district.
- \* (19) Investigation of the effects of the atomic bomb in Hiroshima, medical aspects. Source: Kure naval district (Japanese original).
- (20) Existence of fission products in the radioactive deposits found in the western suburbs of Hiroshima—Report by Yamasaki, and Y. Murakami.
- (21) Measurement of the radioactivity at Nagasaki. Source: Kyushu Imperial University report (23-25 December 1945).
- (22) Radioactivity due to the atomic bomb at Nagasaki and its surrounding districts. Source: Institute of Physical and Chemical Research, Tokyo.
- (23) Radioactivity of the ground at Nagasaki City and its neighborhood. Source: Department of Physics, faculty of science, Kyushu Imperial University, Fukuoka.
- \* (24) Investigation of the atomic bomb attack on Hiroshima. Source: Kure naval district (Japanese original and English translation).

- (25) Medical report of the atomic bombing in Hiroshima. Source: Army Medical College, First Tokyo Army hospital via joint medical commission for investigation of effects of atomic bombs (30 November 1945).
- (26) Proposed atomic bomb tests against naval vessels.
- (27) Notes on experimental data required from atomic bomb trials. Source: Prof. W. H. Thomas.
- (28) Preliminary findings—Report on A-bomb damage by PDD.
- (29) Proposed report outline, the atomic bomb, Nagasaki, Japan—PDD.
- (30) Series of Japanese reports on the atomic bomb (tables of contents) Nav. Tech. Jap.
- (31) General report of the damage done to the city of Nagasaki by the air raid of 9 August 1945.
- (32) Reference material on the damage caused by the air raid of 9 August 1945 on Nagasaki. Source: Nagasaki Prefecture government.
- (33) Report of the damage in Nagasaki. Source: Nagasaki Harbor Transport Company, Ltd., via Nav. Tech. Jap.
- (34) Report of the damage done to the city of Nagasaki by the air raid of 9 August. Source: Nagasaki branch Kyushu naval stores inspectorate.
- (35) Nagasaki City police damage map. Source: Nagasaki City police department.
- (36) Report of damage caused at Nagasaki City by the atomic bomb, medical aspects. Source: Hario naval barracks relief party, Sasebo.
- (37) Investigation of the effects of the atomic bomb in Hiroshima, medical aspects. Source: Kure naval district.
- (38) Medical report No. 9, Research into symptoms resulting from the atomic bomb in Hiroshima. Source: Medical section, Chugoku district army.
- (39) Report of investigation in Chijiwa Machi. Source: Sawada medical clinic via Nav. Tech. Jap.
- (40) Radioactivity of the ground at Nagasaki City and its neighborhood. Source: Kyushu Imperial University, physics department.

----- [USB-13 Roll Nos. 52-53] -----

- (41) Measurement of the radioactivity at Nagasaki. Source: Kyushu Imperial University via Nav. Tech. Jap.

----- [USB-13 Roll No. 53] -----

- (42) Radioactivity of the ground at Nagasaki City and its neighborhood (pt. II). Source: Kyushu Imperial University via Nav. Tech. Jap.



- (43) Radioactivity due to the atomic bomb at Nagasaki and its surrounding districts. Source: Institute of Physical and Chemical Research, Tokyo, via Nav. Tech. Jap.
- (44) Radioactivity due to the atomic bomb at Nagasaki and its surrounding districts. Source: Institute of Physical and Chemical Research, Tokyo, via Nav. Tech. Jap.
- (45) Radioactivity due to the atomic bomb at Hiroshima and its surrounding districts. Source: Institute of Physical and Chemical Research, Tokyo, via Nav. Tech. Jap.
- (46) Japanese survey of atomic bombings of Hiroshima and Nagasaki. Source: Institute of Physical and Chemical Research, Tokyo, via Nav. Tech. Jap.
- (47) Researches on the radioactivities at Hiroshima. Source: Physics department, Osaka Imperial University via Nav. Tech. Jap.
- (48) Report on the atomic bomb thrown on Hiroshima. Source: Osaka Imperial University via Nav. Tech. Jap.
- (49) The field observation at Hiroshima on the radioactivity induced by the atomic bomb.
- (50) Preliminary survey of the effect of the atomic bomb on soil and plants in Nagasaki. Source: Agriculture department, Kyushu Imperial University via Nav. Tech. Jap.
- (51) Preliminary report by the agriculture group damage to agriculture products, trees, plants. Source: Kyushu Imperial University via Nav. Tech. Jap.
- (52) Preliminary report on the damage to plant life at Nagasaki and Hiroshima. Source: Kyoto Imperial University via Nav. Tech. Jap.
- (53) Preliminary report of the special commission for research and investigation of the atomic bomb calamity. Source: Kyushu Imperial University via Nav. Tech. Jap.
- (54) Report on the investigation of the atomic bomb damage to horticultural products. Source: Kyushu Imperial University via Nav. Tech. Jap.
- (55) Summary of six investigations on atomic bomb damage effects on plants. Kyushu Imperial University via Nav. Tech. Jap.
- (56) Investigation into the damage caused by the atomic bomb observed effect on insects. Source: Kyushu Imperial University via Nav. Tech. Jap.
- (57) Census data, Nagasaki City and Nagasaki Saga, Kumamoto and Fukuoka prefectures. Source: Nagasaki prefectural statistics section.
- (58) Daily weather data, Nagasaki City. Source: Nagasaki weather bureau, Nav.

Tech. Jap.

- (59) Alphabetical key to Nagasaki city map listing and outlining Machi. Source: Nagasaki public works department, Nav. Tech. Jap.

*d.* Information on Mitsubishi and other factories in the "A" bombed areas:

- (1) Investigation of Mitsubishi ordnance works, construction section No. 1—Production, organization, equipment, etc. (1). Source: Honda, Yusaku, manager, main office, construction section No. 1, via 2d Mar. Div., G-2.
- (2) List of all Mitsubishi-owned or controlled factories in the Nagasaki area with those bombed out indicated (2). Source: Ogawa, manager of Nagasaki Mitsubishi shipyards, via 2d Mar. Div., G-2.
- (3) Report on schools in Nagasaki taken over by Mitsubishi, and more detailed account on use of schools by Mitsubishi shipyards (2, 1 incomplete). Source: Ogawa, manager of Nagasaki Mitsubishi shipyards, via 2d Mar. Div., G-2.
- (4) Survey on factories in schools of Nagasaki (2). Source: Nagasaki liaison committee.
- (5) Example of an application of a war plant for permission to convert to peacetime production (Matsuyama iron works of Nagasaki) (2). Source: Nagasaki liaison committee.
- (6) Abstract of application for permission to convert to essential consumers' commodities, 21 November 1945 (1). Source: Nagasaki steel works of Mitsubishi Steel Manufacturing Company, Ltd.
- (7) Organization of Mitsubishi Corporation (1). Source: Interview of Miyasaki, K., president of Mitsubishi Electric Company, and president of Mitsubishi Chemical-Industry Machinery Manufacturing Company, and Hazama, S., managing director of Mitsubishi Electric Company.
- (8) Outline of the Mitsubishi enterprises (1942) (1). Source: Mitsubishi Company Ltd., Tokyo.
- (9) List of underground equipment at the Nagasaki shipyards (1). Source: Ship department, Mitsubishi Heavy Industries, Ltd.
- (10) List of underground equipment at the Nagasaki arms works (1). Source: Ship department, Mitsubishi Heavy Industries, Ltd.
- (11) Mitsubishi Steel Manufacturing Company, Ltd. (report on equipment, etc., covered by war insurance) (1).
- (12) Miscellaneous information on Mitsubishi Steel Manufacturing Company.
- (13) Miscellaneous Electric Company, Nagasaki works.
- (14) Miscellaneous information, Hiroshima shipyards.

- (15) Miscellaneous information on Nagasaki shipyards and engine works.
  - (16) Miscellaneous information on Mitsubishi Hiroshima engine works.
  - (17) Mitsubishi plants in Nagasaki. Source: T. Oda, manager, ship department, Mitsubishi Heavy Industries, Ltd.
  - (18) Mitsubishi ordnance report-Atom-bomb damage. Source: Report from Nagasaki ordnance plant to chief to managing director.
- e.* Information on air raids on Nagasaki and Hiroshima, Preatomic bombing:
- (1) Air raids on Nagasaki before the "A" bombing (2). Source: Public welfare section, Nagasaki prefectural government.
  - \* (2) List of air raids on Nagasaki City before the "A" bombing (2) (part Japanese). Source: Interview with Nishioka, T., director of Nagasaki newspaper.
  - (3) List of AAF bombings of Nagasaki (4). Source: Morale division, sampling—Mr. W. H. Hansen.
  - (4) List of AAF bombings of Nagasaki (3). Source: Seventh Air Force.
  - (5) Reports of attacks on Nagasaki and Hiroshima (5). Source: Office of statistical control, headquarters, AAF.
  - (6) Excerpts from diary of air defense office, Nagasaki (1). Source: Air defense office, Nagasaki via PDD (See F-17).
  - (7) Nagasaki-Research list of damage by air raids (4). Source: Fujimoto, Soshiro, regional fire chief, Nagasaki City.
  - (8) Air strikes on Hiroshima prior to A-bomb. Source: PDD team No. 1.
- f.* General data:
- (1) List of USSBS teams and personnel in Nagasaki compiled by G-2, Nagasaki (2).
  - (2) USSBS key personnel who investigated the effects of the atomic bombings of Hiroshima and Nagasaki (1).
  - \* (3) Translations of articles concerning the "A" bombings which appeared in the Nagasaki Shimbun from 10 August to 16 November 1945 (22). Mimeograph master copy and 6 other mimeograph copies. (Original Japanese clippings.)
  - \* (4) Articles by Nishioka, Takejiro, which appeared in the Nagasaki newspaper of 25, 26, 27 September 1945, concerning the future of Nagasaki. (Translation by member of staff of paper.) (Japanese press clippings.)
  - (5) Interview with Nishioka, T., director of Nagasaki newspaper concerning "Effect of 'A' bomb on morale of Japs in general, " plus discussion of "General trends in Japanese public opinion during the War" and some biographical material on Nishioka (1).

- (6) Motion picture coverage of Japan by AAF (1) Source: Memo to G-2 from First Lieutenant Daniel A. McGovern. AAF of PDD team No. 10.
- (7) Function of PDD team No. 10 (motion picture project) (1). Source: Memo to G-2 from PDD team No. 10.
- (8) Eyewitness account of the atomic bombing of Hiroshima by Miss Polchikoff, transcript. Source: G-2 Sec., USSBS.
- (9) Excerpts concerning Nagasaki and Hiroshima (1). Source: "Japan, the Official Guide, " 1941 RR Ministry publication.
- (10) General Report on Nagasaki City prepared by Lieutenant (jg) R. W. Moser, USNR, of PI Sec., USSBS (2).
- \* (11) Outline history of Hiroshima City (2). Source: Geographic institute, faculty of science, Imperial University of Tokyo.
- \* (12) Outline history of Nagasaki City (2). Source: Geographic institute, faculty of science. Imperial, University of Tokyo (Japanese and English translation).
- \* (13) Outline of Japanese general staff organization, plans for repulsing invasion of Kyushu, etc. (5) (part Japanese). Source: Lieutenant Colonel Oya, First Demobilization Ministry, Tokyo.
- (14) Summary report, atomic-bomb mission, Investigation into Japanese activity to develop atomic power (1). Source: GHQ, Tokyo, memorandum to Brigadier General J. B. Newman.
- (15) General report on Hiroshima City. Source: Lieutenant J. W. Gardner. PI section, USSBS. History of Nagasaki City. Source: Translation from map issued to commemorate founding of the city.
- (17) Translation of list of B-29 crew members taken prisoners near Nagasaki. Source: Nagasaki air-defense section diary.
- (18) Article by General Yamashita on effect of A-bomb on military strategy. Source: Infantry Journal (April 1946).
- (19) Historical data on atomic bomb. Source: Colonel Montgomery, MAD, via General Gardner.
- (20) Program for the hearings before the Senate special meeting on atomic energy.
- (21) Testimony of Dr. Louis Ridenour, representing the American Federation of Scientists before the Senate special meeting on atomic energy.
- (22) Military Security and the Atomic Bomb—article by Ridenour.
- (23) Atomic Bomb Hysteria—article by Major A. P. de Seversky.
- (24) Supplementary report on "A" bombing of Nagasaki and Hiroshima, by Major A. P. de Seversky.

(25) Atomic Energy Act of 1946—U. S. Senate Hearings.

----- [USB-13 Roll No. 54] -----

(26) Preliminary composite reports on the effects of the atomic bombs.

(27) Population and casualty figures for Hiroshima and Nagasaki.

(28) Damage map of Nagasaki.

(29) Photo log and other worksheets.

*g.* Report of the British mission to Japan on an investigation of the effects of the atomic bombs dropped at Hiroshima and Nagasaki:

(1) Final report and 5 preliminary drafts.

(2) Photostats of maps and drawings.

(3) Excerpts from "Report of the British Mission to Japan on an Investigation of the Effects of the Atomic Bomb Dropped at Hiroshima and Nagasaki. "

(4) Computations and drawings of blast pressure caused by atomic bomb.

(5) British investigation of the effects of the atomic bomb dropped at Hiroshima, comments on.

*h.* Pictures and negatives from Japanese sources:

(1) Captions with pictures of A-bomb injuries and treatment. Source: Hiroshima war casualty survey.

(2) Captions with pictures of A-bomb damage. Source: Commander Ishiwata, IJN.

(3) Nagasaki newspaper dated 15 August 1945—picture caption "Radio Device Dropped by Parachute at the Same Time as the 'New-Type Bomb' at Hiroshima. "

(4) Microfilm (2) Nagasaki—Areas damaged by atom bombing of 9 August 1945. Map of areas made 20 August 1945. Source: Nagasaki Prefecture (Hoanka).

(5) Negatives (8) Hiroshima. Source: Commander Ishiwata, IJN.

(6) Pictures of radio device dropped by parachute.

*i.* Nagasaki and Hiroshima photos.

*j.* Photos of A-bomb damage of Mitsubishi Heavy Industries, Company, Ltd.

*k.* Photos of A-bomb damage. Source: Mitsubishi Heavy Industries Company, Ltd.

*l.* A-bomb photos (Hiroshima and Nagasaki).

----- [USB-13 Roll No. 55] -----

*m.* Hiroshima A-bomb photos (medical).

*n.* Nagasaki A-bomb photos (medical).

*o.* Nagasaki A-bomb photos.

*p.* Hiroshima target description.

- q.* Atom bomb report photos.
- r.* Atom bomb negatives (67).
- s.* Hiroshima A-bomb photos.

----- [USB-13 Roll No. 56] -----

*t.* Charts and maps:

- \* (1) Nagasaki Kō and approaches (Survey of IJN, 1933).
- (2) Nagasaki Prefecture (published in 1932).
- (3) Nagasaki Prefecture (administrative boundaries, roads, etc., are indicated).
- (4) Chart of northern part of Hiroshima Harbor (1928) (city appears on the chart).
- (5) Chart of Nagasaki Kō to Kuchinotsu Kō (IJN survey, 1925). [口之津]
- (6) Chart of Hiroshima harbor (IJN surveys up to 1926, other sources to 1939).
- (7) Map of Hiroshima showing extent of area damaged by fire (Army Map Service via Urban Areas Division).
- (8) Map of Nagasaki City showing A-bomb damage (prepared by Lieutenant Colonel Oya, 1st Demobilization Ministry, Tokyo).
- (9) Nagasaki City plan map (original and two copies) (Schools and other buildings indicated).
- (10) Nagasaki City plan map (Cho nai kai, city districts indicated).
- (11) Map of Hiroshima atomic-bomb damage (extent and type of damage to various buildings is shown). (Prepared by Central Non-Life Insurance Corporation, Tokyo.)
- (12) Map of Nagasaki atomic-bomb damage (extent and type of damage to various buildings is shown). (Prepared by Central Non-Life Insurance Corporation, Tokyo.)
- (13) Map of Hiroshima atomic-bomb damage (prepared by Hiroshima railway division office).
- (14) Map showing area damaged by the atomic bomb at Nagasaki. (A numbered key to map shows important buildings as designated on the map.) (Original and seven copies.). (Prepared by Nagasaki Prefecture police department, Hoanka—Public welfare section.)
- (15) Nagasaki City map (1:12,500 with miscellaneous information concerning factories, installations, etc., indicated on one copy by Lieutenant (jg) Robert W. Moser, USNR). (Three copies, one marked as above, also one copy of preliminary uncorrected edition of same map.) (Army Map Service.)
- (16) Revised edition—City plan of Nagasaki (in four sections).

- (17) Target map of Nagasaki urban area (XX Bomber Command).
- (18) Nagasaki City wards and streets (one sheet is missing).
- (19) Japanese map of Nagasaki City giving brief history of city and other information.

----- [USB-13 Roll Nos. 56-57D] -----

u. Japanese blueprints—industrial and public buildings-Nagasaki (54 envelopes).

----- [USB-13 Roll No. 57D] -----

v. Field data pertaining to physical damage-Nagasaki:

- (1) Mitsubishi steel and small arms works.
- (2) All remaining buildings between M. S. and S. A. loop in river and R. R. tracks.
- (3) Mitsubishi Turbin component works I.
- (4) Standard Vacuum Oil works.
- (5) Kyushu gas works.
- (6) Urakami gas works.
- (7) Bridges and docks.
- (8) Mitsubishi Turbin component works II.
- (9) Mitsubishi torpedo works.

----- [USB-13 Roll No. 58]-----

- (10) Leys Normal school.
- (11) Nagasaki Prefecture prison.
- (12) Structure between "probable barracks" and Ukrami gas works.

----- [USB-13 Roll No. 59]-----

- (13) Engineering school.
- (14) Divinity school.
- (15) Catholic church.
- (16) Nagasaki Medical school.
- (17) Nagasaki University hospital (Mitsubishi).
- (18) Zenza grade school.
- (19) Nishizakamachi grade school.
- (20) Nagasaki commercial school.
- (21) Shiroyama school.

----- [USB-13 Roll No. 59A] -----

- (22) Boys' high school (Keiho). [瓊浦中学校]
- (23) Fuchi school (consisting of two envelopes). [淵高等小学校]
- (24) Mitsubishi steel and arms works (II) casting plant.
- (25) Mitsubishi woodworking plant.

(26) Deaf and dumb school.

----- [USB-13 Roll No. 59B] -----

(27) Inasa school. [稲佐小学校]

(28) Asahi school.

(29) Series electric power and distribution.

(30) Mitsubishi Electric Manufacturing Company.

(31) Akunoura engine works.

(32) Hayashi Commercial Company engine works.

(33) Mitsubishi dockyard.

----- [USB-13 Roll No. 60] -----

(34) Tategami shipyard.

(35) Kozaki point oil storage.

(36) Naval reservation.

(37) Nippon Oil Co.

(38) Powder magazine.

(39) Tomachi grade school.

(40) Minamioura grade school.

(41) Mitsubishi small boatyards.

(42) Small boat manufacturing plant.

(43) New shipyard.

(44) Mitsubishi Trading Company.

(45) Consulate area.

(46) Dejima wharf.

(47) Nagasaki station and freight yards.

(48) Chinzei high school.

(49) Nagasaki Municipal hospital.

(50) Nagasaki Municipal crematory.

(51) Post office.

(52) Relief association office.

(53) District court and public prosecutor's office; Regional court and public prosecutor's office; Nagasaki court of appeals.

(54) Shinkozen grade school.

(55) Municipal girls' commercial school.

(56) Funatsu Machi branch, Mitsubishi hospital.

(57) Nagasaki tobacco monopoly agency.

(58) Nakamichi church.



- (59) Honren temple.
- (60) Kukuho Fukusai temple.
- (61) Nagasaki Prefecture office.
- (62) Mosaics and general information on Nagasaki—Photo intelligence.
- (63) Maps and miscellaneous.
- (64) Damage assessment charts.
- (65) Interviews, formal and informal.
- (66) Mitsubishi Heavy Industries Report.
- (67) Oita fire.
- (68) A synopsis report of the air-raid disaster at Nagasaki, 9 August 1945.
- (69) The location of the point of explosion.
- (70) Effects of the atomic bomb on Nagasaki (interim report).

----- [USB-13 Roll No. 61]-----

- (71) Program, bibliography, status of reports.
- (72) Report outlines.
- (73) Bridges and stacks (draft copies).
- (74) Volumes 2, 3, and 6 (draft copies).
- \* (75) Public utilities, Vol. 4 (background material for report).
- \* (76) Volume 5 (background material for report), consisting of two envelopes.

----- [USB-13 Roll No. 62]-----

- (77) Photo interpretation.
- (78) Void worksheets.
- \* (79) Photos of Nagasaki and buildings; one negative.
- \* (80) Outline of the Mitsubishi enterprises, 1921, 1930, 1937.
- (81) Photo logs.

----- [USB-13 Roll Nos. 62-63]-----

- (82) Photographs, miscellaneous (two boxes).

----- [USB-13 Roll No. 63]-----

- (83) Photographs, large Japanese ground shots of Nagasaki.
- w. Press clippings.
- x. Captions and narration for motion-picture project on effects of the atomic bomb on Hiroshima and Nagasaki (two copies).
- y. Twentieth Air Force folder concerning the atomic bombings of Nagasaki and Hiroshima.
- z. Eyewitness account of the atomic bombing of Hiroshima by Miss Polchikoff (two records). Source: G-2 section, USSBS.

*aa.* Flashburn exhibits—two boxes.

*bb.* Rubber model map of Nagasaki.

----- [USB-13 Roll Nos. 63-64] -----

4. Field Report Covering Air Raid Protection and Allied Subjects, Tokyo, Japan.

----- [USB-13 Roll No. 64] -----

*a.* Photographs and charts.

*b.* Japanese field report.

----- [USB-13 Roll Nos. 64-65] -----

*c.* Manuscript.

----- [USB-13 Roll No. 65] -----

*\*d.* Map of area of operation of picket boats under jurisdiction of the 22d Battle Squadron.

*\*e.* Map showing location of radar installations in Eastern Army area.

*\*f.* List of location and equipment of the nine radar companies of the Eastern Army's Intelligence Battalion.

*\*g.* Map of Japan showing areas of jurisdiction of the several armies.

*\*h.* Map of section of Tokyo showing locations and range of coverage of sirens connected to Eastern Army headquarters.

*\*i.* Catalog of Ibuki Manufacturing Company of Osaka (siren manufacturer).

*\*j.* Blueprint chart of sirens in Tokyo area controlled from Eastern Army headquarters, showing division of area into warning zones and the Shiba Park control.

*\*k.* Blueprint of wiring plan of Tokyo siren system.

*\*l.* Organization of the Tokyo fire department (Japanese).

*\*m.* Map showing fire districts and stations during the war period.

*\*n.* Map showing fire districts and stations in the post-war period.

*\*o.* Map showing location of fire-boat houses.

*p.* Four sectional map of the Tokyo water system.

*\*q.* Map showing locations of Tokyo water mains.

*\*r.* Data on diameters and lengths of water mains and diameters and number of fire hydrants.

*\*s.* Blueprint maps of the 12 Tokyo water districts.

*\*t.* Chief Shimoda's report on damage resulting from 10 March 1945 air raid (Japanese).

*\*u.* Map showing firebreaks created in Tokyo.

*\*v.* Map of Tokyo zoning districts.

- w. Summary of directions on the construction of buildings (Japanese).
- x. Map showing police districts of Tokyo and locations of headquarters of the guard rescue battalions (Keibitai).
- y. Map of Tokyo. metropolitan district showing priority of streets designated for clearance and repair in the event of air raids.
- \*z. Organization chart and blueprint showing types of buildings and air-raid protection installations of Mitsubishi Oil Company's Kawasaki refinery ( Japanese).
- \*aa. Organization chart and blueprints showing civilian air-defense headquarters construction, damage by bombing, casualties, and air-raid precautions of Japan Steel Tube Company (Japanese).
- \*bb. Organization chart of air-raid defense force and blueprints showing air-raid precautions, types of construction and camouflage of Hitachi Machine Tool Company Ltd.
- \*cc. Charts showing communications networks for all Japan (Japanese).
- \*dd. Analysis of damage to communications facilities ( Japanese).
- \*ee. Map showing location of harbor fire stations and substations and graphic representation of air-raid damage in Yokohama Harbor area.
- \*ff. Plan of Red Cross central hospital showing damage and air-raid precautions.
- \*gg. Chart of Edogawa apartment house air-raid defense organization and blueprint plan of building (Japanese).
- \*hh. Blueprint of plans of the Shinjuku moving-picture theater and sketches showing fire protection measures incorporated.
- \*ii. Sample of simple device to estimate amount of light i a room.
- \*jj. Table of data on Tokyo street lighting (excluding gas lights).
- kk. Illustrations of typical Japanese fishing lights.
- ll. Blueprint of camouflage pattern for one large factory in Tokyo.
- \*mm. Table of Tokyo air-raid damage and table listing population figures for Tokyo-To from 1940 to November 1945.
- \*nn. Text on air-raid warning (operation of picket boats) (Japanese).
- \*oo. Text on history of Chokai and Rengo Chokai ( Japanese).
- \*pp. Table of number of members of Keibodan, Chokai, and Tonari Gumi (Japanese).
- \*qq. Chart of Control Center, Tokyo (Japanese).
- \*rr. Text on outline of the mechanism and operation of sirens (Japanese).
- \*ss. Table listing location of sirens (Japanese).
- \*tt. Table of organization of the Air Intelligence Battalion (Japanese).

- uu.* Text on organization of the unexploded bomb disposal squads in the area under the jurisdiction of the Eastern Army (Japanese).
- vv.* Two charts showing the dissemination of air-raid alarms (Japanese).
- ww.* Text on matters pertaining to the revision of methods of signaling to ships with air warning signal lights (Japanese).
- \*xx.* Personal file of Odachi, Governor of Tokyo, covering period 28 July 1944 to 19 April 1945 (Japanese).
- yy.* Notes on personal files of Odachi, Governor of Tokyo.
- zz.* Plan for air defense of Tokyo.

----- [USB-13 Roll No. 66] -----

5. Field Report Covering Air-Raid Protection and Allied Subjects, Nagasaki, Japan.

- a.* Field report.
- b.* Manuscript.
- c.* Blueprint map showing area destroyed or burned by atomic bomb and areas burned out or partially destroyed by other air raids.
- d.* Map showing location and range of each air-raid warning siren.
- \*e.* Data on water system (Japanese).
- \*f.* Map showing locations of fire battalion stations (headquarters), substations and auxiliary police and fire units.
- g.* Data on fire department and information concerning auxiliary police and fire units (Keibodan).
- h.* Map of water department system.
- i.* Map showing locations of static water supply and site of dam up.
- j.* Map and report of survey of demolished houses in the cities of Nagasaki Prefecture.
- k.* Map showing areas demolished for firebreaks in November 1944 and April and July 1945.
- \*l.* Chart of volunteer air-defense organization and blueprint plan of plant lay-out of Kawanami Ship-building Company.
- m.* Chart showing air-raid protection, precautions, and damage suffered by Mitsubishi heavy industries, Nagasaki shipbuilding and engine works.
- n.* Map of Nagasaki Harbor showing air-raid protection installations.
- \*o.* Text on prefectural plan for evacuation persons in Nagasaki to Sasebo (Japanese).
- \*p.* Form of certificate of evacuation status (Japanese).
- \*q.* Form of application for removal (Japanese).
- \*r.* Form of report of completion of removal (Japanese).

- \*s. Form of sufferer's certificate (Japanese).
- \*t. Text on distribution and cooking of emergency food supply (Japanese).
- \*u. Text on summary of war casualty insurance (Japanese).
- \*v. Text on prefectural record of payment under war service allowance law (Japanese).
- \*w. Text on application for payment of claim for pension and allowance under wartime disaster protection plan.
- \*x. List of members of Nagasaki prefectural government (part Japanese).
- \*y. Personnel of the headquarters of the Nagasaki prefectural all-member civilian guards.
  - z. Air-defense plan and training.
- aa. Table of the organization of civilian air defense.
- bb. Air-raid statistics—Nagasaki.
- cc. Map of Nagasaki showing administrative areas of various police stations.

----- [USB-13 Roll Nos. 66-67]-----

6. Field Report Covering Air Raid Protection and Allied Subjects, Kyoto, Japan.

----- [USB-13 Roll No. 67]-----

- a. Field report.
- b. Manuscript.
- \*c. Map of northeastern Kyoto Prefecture showing area in which Maizuru was responsible for the sounding of air-raid alarms.
- \*d. Map of city of Kyoto showing locations of sirens.
- \*e. Map showing locations of civilian observation posts in Kyoto Prefecture.
- \*f. Blueprint map of general communications channels for air-raid defense in the Maizuru naval port area.
- \*g. Blueprint diagram of control center for air-raid defense of Maizuru Naval base.
- \*h. Map of Kyoto City water system.
- \*i. Data on fire department section of Kyoto Prefecture, 1945 (part Japanese).
- \*j. Map of Shinjo Gokurakuji Temple showing fire mains, hydrants, pools, pump house, water curtain, and buildings.
- \*k. Map of Kyoto showing locations of fire stations.
- \*l. List of pumpers in Kyoto during the war, and October 1945; giving manufactures; pumping capacities.
- \*m. Map of Kyoto showing distribution grid system and locations of hydrants with cut-out valves.
- \*n. Blueprint showing distribution mains in Kyoto City.

- \*o. Map showing tanks, wells, and swimming pools used static water supply in Kyoto City.
- \*p. Map of Kyoto indicating areas in which only concrete buildings were permitted to be constructed.
- \*q. City Building Regulations Enforcement Act (Japanese).
- \*r. Pamphlet on protective police statistics, 1942 ( Japanese).
- \*s. Map of Kyoto showing fire barriers made by demolishing buildings.
- \*t. Data on construction of fire barriers from 17 July 1944 to 21 July 1945.
- \*u. Pamphlet (illustrated) on suggestions on how to achieve light control by Kyoto Electric Company.
- \*v. Control of lights in streetcars (Japanese).
- \*w. Training orders, training notices, and prefectural orders concerning air defense by Kyoto prefectural police department.
- \*x. Data on street lighting and wattage used by metered residential customers (Japanese).
- \*y. Plans and specifications of reinforced, concrete pipe shelter.
- \*z. Specifications of tunnel-type air-raid shelter.
- \*aa. Text on bill proposed for effecting evacuation of persons, August 1945 (Japanese).  
----- [USB-13 Roll No. 68]-----
- \*bb. Text on compendium of matters pertaining to Wartime Damage Protection Law No. 71, promulgated 24 February 1942 (Japanese).
- \*cc. Text of questionnaire designed to determine destination of persons seeking other locations.
- \*dd. Text on compendium of regulations relating to school children group evacuation (Japanese).
- \*ee. Sufferer's certificate and ration card for sufferers ( Japanese).
- \*ff. Map showing counties of Kyoto Prefecture and number of children sent to each.
- \*gg. Fire protection layout of the Imperial University, Kyoto City.
- \*hh. Plan for commanding air-defense and contact system (part Japanese).
- \*ii. Plan of air-defense communications channels (part Japanese).
- \*jj. Civilian air-raid protection manual (1943).
- \*kk. Text on air-defense laws of Kyoto Prefecture ( Japanese).
- \*ll. Plan of the control center, Kyoto Prefecture.
- \*mm. Text on guide to wartime damage insurance (Japanese).
- nn. History of air defense in Kyoto.
- \*oo. Text on duties of control-room leaders (Japanese).

- \**pp.* Text on civilian air-defense observation boats and special fishing boats (Japanese).
- \**qq.* Sample report of biggest raid, 26 June 1945 (Japanese).
- \**rr.* Plan for air defense of Kyoto for year 1944 (Japanese).

7. Field Report Covering Air-Raid Protection and Allied Subjects, Kobe, Japan.

----- [USB-13 Roll No. 69] -----

- a.* Field report.
- b.* Manuscript.
- \**c.* Map of Kobe containing items of general information.
- \**d.* Map of Kobe showing boundaries of the Moto Machi auxiliary police and fire unit and its division into sub units (Bundan).
- \**e.* Diagram of hook-up of Kobe siren installations from the warning control to the sirens.
- \**f.* Diagram of electrical hook-up of the siren control panel.
- \**g.* Set of specifications of Kobe municipal sirens (Japanese).
- \**h.* Manual issued by the defense section of the Hyogo prefectural police division giving instructions for the care and use of sirens (Japanese).
- \**i.* Blueprints of wiring system of sirens and the central control panel in Kobe.
- \**j.* Chart showing organization of Hyogo prefectural fire brigade section and giving names and duties.
- \**k.* Hyogo prefectural general organization from air-defense general headquarters to prefectural government during war period.
  - l.* Study on fire-prevention tactics.

----- [USB-13 Roll No. 70] -----

- \**m.* Table showing rates of pay and allowances of members of Kobe fire department (Japanese).
- \**n.* Statistics on number of firemen killed or wounded while on duty during air raids from 4 February to 22 August 1945 (Japanese).
- \**o.* Statement on number of firemen absent from duty from 1 January to 31 December 1944 (Japanese).
- \**p.* Compilation showing number of pumpers of each fire battalion station, substation, and prefectural (village) fire departments (Japanese).
- \**q.* Chart showing type of appliances in each fire-battalion station and substation in Kobe City and in the Prefecture (Japanese).
- \**r.* Map of Kobe showing fire-battalion districts and battalion stations and substations prior to 30 April 1945.
- \**s.* Map of Kobe showing fire-battalion districts, stations, and substations prior to

March 1945.

- t.* List showing Kobe City sources of water, sedimentation reservoirs, filtering reservoirs, and pumping stations, capacities and other pertinent information.
- \**u.* Blueprint of water distribution system (Japanese).
- \**v.* Wooden structure fire-prevention regulation (Geisha houses) (Japanese).
- \**w.* City building regulations for theaters (Japanese).
- \**x.* Map of Kobe showing locations of 30 buildings on which protective measures were completed.
- \**y.* Map showing fire barriers created by demolition of buildings.
- \**z.* Data on fire frequency in Kobe City, losses, forest fires, ship fires, miscellaneous fires, origins, and transmission of calls by various means (Japanese).
- \**aa.* Accounts of large fires in Kobe other than those caused by air raids (Japanese).
- \**bb.* Data on air raids between February and August 1945 (Japanese).
- \**cc.* Young women's first aid units.
- \**dd.* General operational outline of Kobe Harbor air defense (Japanese).
- \**ee.* Detailed plans for the subdivision of air defense (Japanese).
- \**ff.* Light control guide (Japanese).
- gg.* Light control regulations and operating rules (Japanese).
- \**hh.* Precautions for carrying out light control law (Japanese).
- \**ii.* Copy of operations manual for air-defense camouflage (Japanese).
- \**jj.* Air defense of factories (Japanese).
- \**kk.* Air-defense magazine, March 1941 (Japanese).
- \**ll.* Air-defense magazine, June 1941 (Japanese).
- \**mm.* Drawings (2), showing details of the camouflage on branch factory at Shibaura Machine Tool Company.
- \**nn.* Blueprint showing scheme of camouflage of the Kawanishi aircraft factory.
- \**oo.* Directions for encouraging city evacuation.
- \**pp.* Main points for carrying out evacuation of refugees.
- \**qq.* Table of building compensation.
- \**rr.* Manual on air-defense situations.
- \**ss.* Matters pertaining to procedure, instructions, and training to Hyogo Prefecture air defense (Japanese).
- \**tt.* Manual on air defense (Japanese).
- \**uu.* Weekly report No. 248—air defense and decisive battle.
- \**vv.* Weekly report No. 261—expedition of air-defense preparations.
- \**ww.* Important matters regarding air-raid shelter construction (Japanese).



- \**xx*. Advice for perfect air defense air attack and battle advice; Emergency countermeasures at time of air attack; plan for rescue and first aid (Japanese).
- \**yy*. Air defense order No. 972 on shelters.
- \**zz*. Training order "B" issued by Governor of Hyogo Prefecture on 6 June 1944 on training districts, training, fire fighting and operations.
- \**aaa*. Chart of communications net in Kobe Harbor district.
- \**bbb*. Kobe city water department map showing location, elevation, and pictures of dams and drawings of reservoirs.
- \**ccc*. Chart of air-raid defense organizations in Hyogo Prefecture.
- \**ddd*. Tables listing outline of damages, organization of Cho-Naikai; number of houses and number of departments of same, and amounts of air-defense goods on hand.
- \**eee*. Pamphlet on uniform regulations for Keibodan and instructions and specifications of Keibodan pennants (Japanese).
- \**fff*. Booklet on regulations for establishing Keibodan, Hyogo Prefecture (Japanese).
- \**ggg*. Transmission of air-defense warnings (Japanese).
- \**hhh*. Hyogo Prefecture air-defense Order No. 570 on matters pertaining to the use of sirens for the transmission of security warning and all-clear signals (Japanese).
- iii*. Organization chart of school special air-defense corps (Japanese).
- \**jjj*. Text on regulations governing security lighting (Japanese).
- \**kkk*. Text on summary of instructions relative to evacuation of old and young people, Hyogo Prefecture (Japanese).
- \**lll*. Text on Air-Defense Service Allowance Law, 17 December 1941 (Japanese).
- mmm*. Table on war property damage insurance.

8. Field Report Covering Air-Raid Protection and Allied Subjects, Osaka, Japan.

----- [USB-13 Roll No. 71] -----

- a*. Japanese field report-typewritten copies, Nos. 3 and 5.
- \**b*. Fire-department functional organization of Osaka Prefecture.
  - c*. Outline of the Osaka prefectural fire-brigade system (Japanese).
- \**d*. Battalion (brigade) fire-station working schedule.
- \**e*. Statistics on fire losses and related subjects from 1943 Yearbook.
- \**f*. Outline of firemen's training school, 24 October 1945.
- \**g*. Map of Kunijima Reservoir of Osaka municipal waterworks showing capacities and facilities.
- \**h*. Side-view blueprint of palace grounds distribution reservoir (Jonai).
- \**i*. Map of municipal water system.
- \**j*. Textbook on practical fire prevention.

- \**k.* Study on oil fire prevention.
- \**l.* Fundamentals of fire-prevention facilities
- \**m.* Chart of responses made by fire trucks during air raids and mutual aid received and furnished by Osaka.
- \**n.* Data on big fires in Osaka other than those caused by air raids.
- \**o.* First-aid manual, police department, Osaka Prefecture.
- \**p.* Summary on the mobilization of Osaka school air-defense unit and its reserves.
- \**q.* Regulations and details regarding the operations of railway air-raid defense measures.

----- [USB-13 Roll No. 72] -----

- \**r.* Air-raid protection regulations for harbor defense.
- \**s.* Cloth cover designed to be used over automobile head: lights of emergency vehicles needing to move during alert or air-raid period.
- \**t.* Gas defense unit personnel manual.
- \**u.* Outline for dispersion and evacuation of school children.
- \**v.* Certificate permitting a change of residence.
- \**w.* Questionnaire for voluntary evacuees applying for certificate to change residence.
- \**x.* Guide on air-raid shelter construction.
- \**y.* Illustrated manual on air-defense situation, 1 December 1944.
- \**z.* Manual on air-defense situation, 10 December 1941.
- \**aa.* Manual on bombs.
- \**bb.* Illustrated air-defense guide.
- \**cc.* Air-raid protection regulations for the defense of factories.
- \**dd.* Pamphlet on development of air-raid protection group.
- \**ee.* Data on air-raid damage.
- \**ff.* Bulletin on principles of camouflage.
- \**gg.* Map of Funamachi plant arrangements of the Nakayama Iron Works Company, Ltd.
- \**hh.* Chart showing organization of the emergency medical services.
- \**ii.* Chart showing distribution of medical supplies.
- \**jj.* Pamphlet on air-raid watchers.
- \**kk.* Tonari Gumi pocket guide on air-raid precautions.
- \**ll.* Civilian observation corps manual.
- \**mm.* Black-out manual.
- \**nn.* Laws concerning air defense.
- \**oo.* Table of equipment and materiel of Keibodan.

- \**pp.* Chart showing organization of civilian defense.
- qq.* Table of alarm transmission.
- \**rr.* Charts of guard and air-defense department office and organization police bureau.
- \**ss.* Osaka City, ordinances relative to Chokai.
- \**tt.* Notes on organization and functions of the Keibodan.
- \**uu.* Osaka City ordinances relative to Chokai.
- \**vv.* Map of harbor police.
- ww.* Notes of interview of Shimizu, Sueo, relative to Keibodan and table of organization of same.
- xx.* Notes of interview with First Lieutenant Nagai, Kiyoteru, relative to unexploded bombs.
- \**yy.* Outline of the prefectural fire-brigade system.
- zz.* Sketch showing the locations of antiair civil (private) observation posts under 15th Area Army.
- aaa.* Sketch showing the civil antiair intelligence communication net under 15th Area Army.
- bbb.* Manual of air-defense observation and transmission of information
- ccc.* List of number and type of fire trucks.
- ddd.* Manuscript.
- eee.* Maps.
- fff.* Plan for Osaka (Japanese).
- ggg.* Air-raid protection regulations for Osaka railroad division.
- hhh.* Description of warning central at the Central Army headquarters and of operation.
- iii.* Plan for protection of communications bureau (Japanese).
- jjj.* Rules for air-defense camouflage.
- kkk.* Plan for air defense of Osaka Fu for year 1943 (Japanese).
- lll.* Dispersion and evacuation of school children.
- mmm.* Data on air-raid damage concerning fire prevention.
- nnn.* Special air-defense corps for factories.
- ooo.* Application for certificate for changing districts.
- [USB-13 Roll No. 73]-----
- ppp.* Drawing of Osaka waterworks.
- 9. Field Report Covering Air-Raid Protection and Allied Subjects, Hiroshima, Japan  
No. 1.
- a.* Field report.

- b.* Field report—typewritten copies Nos. 1 to 5.
- c.* Map of Hiroshima showing ground zero of atomic bomb, limits of burned-over area, and standing buildings.
- d.* Chart showing organization for civilian defense.
- e.* Data on Ujina auxiliary police and fire unit.
- f.* Glossary.

10. Summary Report Covering Air-Raid Protection and Allied Subjects in Japan (final report and original draft).

----- [USB-13 Roll Nos. 73-74] -----

*a.* Japanese civilian-defense report:

- (1) Typewritten copy.
- (2) Typewritten copy.
- (3) Manuscript.

----- [USB-13 Roll No. 74] -----

*b.* Over-all material:

- (1) Table—summary of payments under wartime disaster protection law, from 1 April 1944 to 1 March 1945, translated.
- (2) Seven typewritten copies of proposed chapter on Japanese civilian defense.
- \* (3) Japanese texts and translation pertaining to postraid welfare.
- \* (4) Japanese texts and translation pertaining to evacuation and demolition of buildings.
- \* (5) Japanese texts and translations pertaining to evacuation of persons—aged, young, sick, pregnant.
- \* (6) Japanese texts and translations pertaining to evacuation of schools.

*c.* Civilian defense:

- (1) The civilian volunteer corps.
- (2) Tonari Gumi (neighborhood association).
- (3) Women's air-defense units in Japan.
- (4) Chart of Tokyo household air-defense organization.
- (5) Terms used in transmission of air-warnings defense.
- (6) Extracts from radio reports.
- (7) Relationship between civilian and military air-raid defense.
- (8) Nature of the Japanese police system.

----- [USB-13 Roll No. 75] -----

*d.* Background material for civilian-defense study:

- (1) Federal Communications Commission intercepts.

- (2) Facts on nature of Japanese warfare.
  - (3) Background information on Japan.
  - (4) Air Staff intelligence requirements in the Far East.
  - (5) Names of prominent persons in Japan.
  - (6) List of prefectural bureaus.
  - (7) Glossary of bureaus.
  - (8) Glossary of terms—Japanese to English and English to Japanese.
  - (9) Summarizations of interrogations.
  - (10) Notes.
- e.* Over-all air-defense plan:
- \* (1) General outline of defense system.
  - \* (2) Home air-defense manual.
  - \* (3) Air-defense education pamphlet.
- f.* Rules and regulations governing air defense.
- \* (1) Defense regulations for buildings.
  - \* (2) Six handbooks on air-defense laws.
  - \* (3) Regulations on gas defense.
  - (4) Ordinance controlling air-defense headquarters.
  - (5) Regulations for the control of acts resembling warnings.
  - (6) Regulations for practice air-defense warnings.
  - (7) Ordinance on auxiliary civilian police and fire units.
  - (8) Notes on defense laws.
- g.* Protective, laws and regulations:
- \* (1) Summary of war casualty insurance (part Japanese).
  - (2) Air-defense laws.
  - (3) Air-raid defense regulations.
  - (4) Air-raid protection regulations in Japan.
  - \* (5) The War Disaster Protection Law.
  - (6) Ordinance on control, use, and expropriation of lands and buildings.
  - (7) Air-defense Service Allowance Law.
  - (8) Wartime Damage Protection Law.
- [USB-13 Roll No. 76] -----
- h.* Patriotic bodies:
- (1) Japanese youth movement.
  - (2) Laborers patriotic association.
  - (3) Prominent persons in Japan and Japanese-dominated areas.

*i.* Great Japan air-defense association.

- \* (1) Charter (Japanese and English).
- \* (2) General description (Japanese and English).
- \* (3) Opinions as to the operation of the defense plans (part Japanese).
- \* (4) Handbook on organization, published June 1941.
- (5) Notes on interview with treasurer of organization.

*j.* Air-defense system of the police:

- (1) List of chiefs connected with civilian defense.
- (2) List of chiefs of police bureau.
- \* (3) Glossary of prefectures and directors of police departments (Japanese and English).
- \* (4) List of chiefs of metropolitan police board and governors of Tokyo (Japanese with translations).
- (5) Translation of table of contents and summarization of the metropolitan police bureau's air-defense system.
- \* (6) Air-defense regulation for police.
- (7) Notes on translations.

*k.* Organization for air defense:

- \* (1) Air-defense headquarters-report submitted by Lieutenant General Ando (part Japanese).
- \* (2) Citizenry-rules and purposes of organization and table of contents (Japanese).
- \* (3) Neighborhood organization-handbooks, notes.
- \* (4) Plans for operation of emergency medical organizations in Osaka.
- \* (5) Regulations for Osaka barrage balloon units (part Japanese).
- \* (6) Regulations regarding civilian air-observation corps (part Japanese).
- \* (7) Civilian air-defense corps manual.
- (8) War damage, protection plans, and practices.

----- [USB-13 Roll No. 77] -----

- \* (9) Air-defense camouflage—manual, notes.
- \* (10) Black-out—manual, notes, summary.
- \* (11) Rescue corps-manual, extract.
- \* (12) Keibodan in Hyogo Prefecture—regulations. Plan for mobilization (Japanese). Summary and extract. Notes.
- \* (13) Thought control-plan for organization. Explanation of movement.
- \* (14) Figures on defense equipment issued.

*l.* Organization of defense agencies on a national level:

- (1) Japanese emergency relief.
  - (2) Japanese civil-air defense.
  - (3) Japanese anti-air-raid instruction and drill.
  - (4) Japanese factory air-raid protection.
  - (5) Japanese police system.
- m.* Organization of medical services and distribution of supplies:
- (1) Organization of emergency medical service.
  - (2) Chart showing distribution agencies for medical supplies.
- n.* Organization of Japanese ministry of home affairs.
- o.* Organization of Japanese air-raid warning system on a prefectural level.
- p.* Organization for air-raid protection of a typical factory.
- q.* Organization of civil-defense agencies in Hyogo Prefecture:
- (1) Wartime administration organization.
  - (2) Air-defense headquarters.
  - (3) Chart showing locations of police offices.
- r.* Organization for civilian defense in Kobe City:
- (1) Organization of the city prior to August 1945.
  - (2) Administrative organization of a city ward.
  - (3) Map of Kobe Harbor.
- s.* Organization for civilian defense in Tokyo:
- \* (1) Data on fire department—history, organization, and operation.
  - \* (2) Details regarding wages, pensions, hospital care, and drill schooling for fire-department employees.
  - (3) Fire officials.
  - (4) Tokyo building code.
  - (5) Organization for water supply.
  - \* (6) Report on the waterworks section.
  - \* (7) Pump catalogs.
  - \* (8) Data on more important fires with map.
- t.* Air-raid protection organization in Tokyo City.
- u.* Organization chart for Yokohama Harbor.
- v.* Present air-defense instructions:
- \* (1) Manual on general instructions.
  - \* (2) Manual on civilian air-raid protection.
  - \* (3) Handbook for public use.
  - (4) Extracts and summarizations.

- w. Property control and war insurance:
    - (1) Regulations limiting objects of war insurance.
    - (2) Ordinances for control, use, and expropriation of lands and buildings.
  - x. Shelters:
    - \* (1) Outline on construction.
    - \* (2) Handbook on construction with summarization.
    - \* (3) Circular showing diagrams for construction.
  - y. Evacuation:
    - (1) Evacuation of school children.
    - (2) Evacuation of urban communities.
    - (3) Evacuation of cities.
    - (4) Notes on evacuation.
    - (5) Evacuation of Japanese urban communities.
    - (6) Evacuation of Japanese cities.
  - z. Japanese plans for population dispersal (preliminary report).
  - aa. Factories and installations:
    - (1) Factories in Japan.
    - (2) Air-defense organizations in Japanese factories.
    - (3) Regulated factory districts in three metropolitan prefectures and cities.
    - (4) Air-target status memo No. 5, Kyoto area.
    - (5) Air-target status memo No. 2, Kyoto-Osaka area.
  - bb. Air defense in factories:
    - \* (1) Factory air defense.
    - \* (2) Factory air-raid protection, Kyoto Prefecture.
    - \* (3) General instructions for air defense.
    - (4) Notes.
- [USB-13 Roll No. 78] -----
- cc. Air defense in schools and places of entertainment:
    - \* (1) Schools.
    - \* (2) Amusement centers.
  - dd. Periodicals on air defense:
    - \* (1) Civilian air defense for 1 July 1938.
    - (2) On air-defense situation, 1 October 1940.
    - (3) On air-defense situation, 1 December 1940.
    - (4) On air-defense situation, 1 April 1941.
    - (5) On air-defense situation, 1 May 1941.



- (6) On air-defense situation, 1 June 1941.
- (7) On air-defense situation, 1 June 1941.
- (8) On air-defense situation, 1 September 1941.
- (9) On air-defense situation, 1 November 1941.
- (10) On air-defense situation, 1 October 1942.
- (11) On air-defense situation, 1 November 1942.
- (12) On air-defense situation, 1 November 1942.
- (13) On air-defense situation, 1 November 1942.
- (14) On air-defense situation, 1 July 1943.
- (15) On air-defense situation, 1 August 1943.
- (16) On air-defense situation, 1 July 1944.
- (17) On air-defense situation, 1 August 1944.

*ee.* Publications on fire prevention:

- (1) General technique for prevention of fire.
- (2) Philosophy of fire prevention.
- (3) Precautionary measures against flying sparks.
- (4) Metropolitan fire prevention.
- (5) Emergency fire-prevention precautions.
- (6) Emergency methods of treatments.
- (7) Agricultural fire prevention.
- (8) Forest fires and prevention.
- (9) Electricity and fire prevention.
- (10) Gas, oil, and other dangerous materials.

----- [USB-13 Roll No. 78A] -----

*ff.* Air-raid precautions in Japan (summary report).

*gg.* Disposal of the dead:

- \* (1) Instructions as to procedure.
- (2) Translations.
- (3) Notes.

*hh.* Emergency reconstruction:

- \* (1) Figures on damage to houses and property by cities (Japanese original with translation and notes).
- \* (2) Emergency restoration of electrical installations (Japanese original with translation).
- (3) Regulations for reconstruction.
- (4) Construction and countermeasures for emergency restoration

\* (5) Summary of directions on the construction of buildings (Japanese with translation).

\* (6) Essentials of emergency construction (Japanese original with translations).

\* (7) Outline for construction of simple emergency dwellings.

----- [USB-13 Roll No. 79] -----

*ii.* Insurance payments:

\* (1) Payments made on all types of insurance (with supporting Japanese documents).

*jj.* Insurance and protective agencies:

\* (1) General information and notes (with supporting Japanese documents attach where referred to).

*kk.* Relief agencies:

\* (1) Guide for rescue of wounded and sick (Japanese and English).

(2) Questions and answers on city evacuation.

(3) Plan for relief.

(4) Handbook on Junior Red Cross Conference of Far Eastern countries, 29-31 July 1937.

(5) Junior Red Cross 1934-37.

(6) Activities of Red Cross, 1934.

\* (7) Information pamphlet, pertaining to Red Cross.

*ll.* Post-raid clearance:

\* (1) Rough draft of report (with supporting Japanese documents attached where referred to).

*mm.* Population:

(1) Population statistics.

(2) Japanese plans for population dispersal.

(3) Japanese population census, 1944.

(4) Quantitative and qualitative analysis of Tokyo population renewal.

*nn.* Public welfare:

(1) Public health in Japanese empire.

(2) Public safety in Japan.

*oo.* Gas defense:

(1) Instructions (Japanese).

(2) Extracts and summarizations.

*pp.* Air-raid protection:

(1) Air-raid defense act and amendments thereto.

- (2) Air-raid defense regulations in Japan.
- (3) Japanese air-raid manual.
- (4) Notes on air-raid precautions in Japan.
- (5) Air-raid precaution organization in Tokyo city.
- (6) Regulations governing air-defense buildings.
- (7) Methods of air-defense and various organizations.
- (8) Tokyo air-defense system.
- (9) Notes on the enemy economies (Japanese air raid precaution plans).
- (10) Notes on protection against poison gas.
- (11) Air-defense measures.
- (12) Magazine article-air protection, apartment dwellers.

----- [USB-13 Roll No. 80] -----

*qq.* Fire protections

- \* (1) Information on the training program of Tokyo fire department (Japanese with excerpts translated).
- \* (2) Duties of and laws governing auxiliary fire-fighting and policing units.
- \* (3) Data on pumping stations of Tokyo (Japanese).
- \* (4) Fire protection of wooden structures.
- \* (5) Allotment of personnel for fire department.
- \* (6) Keibodan drill manual.
- \* (7) Handling of pumps.
- \* (8) Defense against fire.
- \* (9) Fire-damage statistics.
- \* (10) Fire, protection in forests and, fields.
- \* (11) Specifications for pumps and tools.
- (12) Fire department operational practices in Japan.
- (13) Notes on fire protection.
- (14) Kinds and identification of incendiary bombs, fire defenses.
- (15) Notes on the organization of fire departments in Japanese cities 1923-24.
- (16) Japanese reactions to major calamities.

*rr.* Warning system:

- \* (1) Letters sent by Ministry of Home Affairs to various prefectures (with translations).
- \* (2) Conditions under which alarms were to be sounded.
- (3) Instructions to air watchers.

*ss.* Fire department operational practices in Japan.

- tt.* First-aid training manual.
- uu.* Long-term defense of Hyogo prefectures.
- vv.* Air-defense plans for Hyogo, Kyoto and Nagasaki prefectures:
  - \* (1) Hyogo prefecture—plan for air defense—Notes pertaining to air defense.
  - \* (2) Kyoto prefecture—plan for air defense.
  - \* (3) Nagasaki prefecture—plan for air defense.
- ww.* (1) Special atomic-bomb report on Japanese civilian-defense forces for inclusion in the over-all report (four copies).
- (2) Work sheets.

----- [USB-13 Roll Nos. 80-81] -----

- 11. Final report covering air-raid protection and allied subjects in Japan (final report and original draft).

----- [USB-13 Roll No. 81] -----

- a.* Government and administration:

- (1) ASF manual M354-2B, local government.
- (2) Home affairs ministry.
- (3) ASF manual M354-2, section 2, government and administration.

----- [USB-13 Roll No. 82] -----

- (4) ASF manual M354-2-A, section 2A, government and administration.
- (5) Local government in Japan.
- (6) Renovation of local administration.
- (7) Changes in local administration.
- (8) Simplification of administration.
- (9) Establishment of Tokyo metropolitan administration.
- (10) Weak points of Japanese character and faults of the family system.
- (11) The Japanese police.
- (12) Mobilization of students in Japan.
- (13) ASF manual M354-21, Nagasaki-Ken.
- (14) Ministry of home affairs.
- (15) Tokyo municipal officials.
- (16) China's wartime economic structure.
- (17) ASF manual M354-19, Kagoshima-Ken.
- (18) ASF manual M354-20, Miyazaki-Ken.
- (19) ASF manual M35d-22, Saga-Ken.
- (20) ASF manual M354-23, Fukuoka-Ken.

----- [USB-13 Roll No. 83] -----

- (21) ASF manual M354-24, Kumamoto-Ken.
- (22) ASG manual M354-25, Oita-Ken.
- (23) The metropolitan police board.
- b.* Commerce and industry:
  - (1) Japanese industry.
  - (2) Directory of ministry of commerce and industry.
  - (3) Japanese control associations.
  - (4) Japanese commerce and industry economic committees.
  - (5) The Commerce and Industry Association Law.
- c.* Geographic background:
  - (1) Pamphlet on geography of Japan.
  - (2) Guide to Japan.
- d.* Geography:
  - (1) Geographical and social background.
  - (2) Geography of Japan proper.
  - (3) Maps of Tokyo and environs.
- e.* Air objective folder:
  - (1) Folder No. 90.17 covering Tokyo area.
- f.* AAF evaluation board reports:
  - (1) Report No. 3.
- [USB-13 Roll No. 83A] -----
  - (2) Report No. 4.
  - (3) Report No. 5.
- g.* Bombing data (general).
  - (1) Bombing data.
  - (2) Physical status of the zones areas of the urban area of Kobe as of 1 June 1945 (areas in millions of square feet).
- h.* Target data:
  - (1) Memoranda on evaluation of incendiary and high-explosive bombs used on Japan.
  - (2) Figures on targets damaged through Army Navy bombings.
  - (3) Statistics on air-raid damage suffered by various Japanese cities.
  - (4) Record of special air-raid damage to city of Tokyo.
  - (5) Target summaries.
- i.* Harbors—ships—naval:
  - (1) Construction and repair material aboard ship.

- (2) Symbols for valves, cocks, couplings, etc.
  - (3) Hydrographic notes.
  - (4) Establishment of air-defense warning signals stations for shipping.
- j.* Maps and charts:
- (1) Comparison of bomb tonnages dropped against six greatest cities of Japan.
  - (2) Administrative relationship between Tokyo metropolitan district and its political subdivisions.
  - (3) Theoretic organization of air-defense headquarters, Tokyo, as established by law.
  - (4) Organization of guard rescue unit (Keibitai) showing chain of command.
  - (5) Organization of fire department—metropolitan police board.
  - (6) Chain of command for air defense in the Tokyo metropolitan district as it actually operated.
  - (7) Tokyo water supply—diagrams 1 and 2.
  - (8) Administrative organization of a city ward (Ku) in the city of Kobe.
  - (9) Organization of the air-defense headquarters of Hyogo Prefecture.
  - (10) Wartime administrative organization of Hyogo Prefecture.
  - (11) Organization of the city of Kobe.
  - (12) Maps.
- k.* Charts and tables:
- (1) Building data on Ube Soda Company.
  - (2) Summary of bombing and mining missions of Twentieth Air Force.
  - (3) Various tables showing scope of raids and damage by Twentieth Air Force.
- l.* Maps:
- (1) Guam.
  - (2) Korea.
  - (3) Philippine Islands.
  - (4) Japan.
  - (5) Northern Japan.
  - (6) Central Japan.
  - (7) Southern Japan.
  - (8) Osaka-Kobe area.
  - (9) Tokyo area.
  - (10) Kumamoto area.
  - (11) Yawata, Tobata, Wakamatsu area.
  - (12) Northwest Nagoya area.

- (13) Railroads and railroad facilities.
- (14) Drawing showing jurisdictional areas of local maritime bureaus.
- (15) Honshu and Kyushu.

*m.* Newspapers:

- (1) Picture of gas mask drill taken in 1930.
- (2) Japan Weekly Chronicle for 5 July 1928.
- (3) Japan Advertiser for 6 July 1928.
- (4) Japan Advertiser for 10 August 1933.
- (5) Japan Advertiser for 28 November 1938.
- (6) Japan Advertiser for 21 July 1939.
- (7) Japan Advertiser for 22 July 1939.
- (8) Japan Advertiser for 26 October. 1939.
- (9) Japan Times for 6 July 1928.
- (10) Japan Times for 9 August 1933.
- (11) Japan Times for 27 November 1938.
- (12) Japan Times for 30 October 1939.
- (13) Japan Times for 2 October 1940.
- (14) Japan Times for 5 October 1940.
- (15) Japan Times for 6 October 1940.

----- [USB-13 Roll No. 84]-----

*n.* Interrogation notes:

- (1) List of officials interrogated.
- (2) Notes on interrogations pertaining to general defense.
- (3) Notes on interrogation pertaining to evacuation of school children.
- (4) Postraid clearance.
- (5) War damage claims.

*o.* Photographs and negatives:

- (1) Osaka.
- (2) Kobe.
- (3) Nagasaki.
- (4) Tokyo.
- (5) Reprinted pictures showing damage
- (6) Pictures of various type air-raid shelters with descriptions attached.
- (7) Negatives of organization charts.

*p.* Field notes:

- (1) List of materials to have been prepared in Tokyo.

(2) Notes by R. W. Ross on Osaka, Kobe, Kyoto, and Nagasaki.

(3) Notes by R. W. Ross on investigations in Tokyo.

*q.* Phrase book.

----- [USB-13 Roll No. 85] -----

*r.* Miscellaneous material:

\* (1) Report of March 9-10 raid on Tokyo.

\* (2) Subjects and period of study of Air-Defense Rescue Law Lecture.

\* (3) Pertinent details on emergency air-defense measures in Nagasaki.

\* (4) Detailed directives on first aid.

\* (5) Gas defense.

\* (6) Nippon Red Cross, Tokyo.

\* (7) First-aid handbook.

\* (8) Auxiliary police and fire unit.

\* (9) Outlined history of the Japanese Red Cross.

\* (10) Japanese booklet pertaining to first aid and shelter.

\* (11) Domestic and emergency nursing.

*s.* Radio reports on the Far East:

(1) Report No. 48 dated 23 June 1944.

(2) Report No. 62 dated 5 January 1945.

(3) Report No. 63 dated 19 January 1945.

(4) Report No. 64 dated 2 February 1945.

(5) Report No. 65 dated 16 February 1945.

(6) Report No. 66 dated 24 February 1945.

(7) Report No. 67 dated 2 March 1945.

----- [USB-13 Roll No. 86] -----

(8) Report No. 68 dated 16 March 1945.

(9) Report No. 69 dated 30 March 1945.

(10) Report No. 70 dated 20 April 1945.

(11) Report No. 71 dated 4 May 1945.

(12) Report No. 72 dated 18 May 1945.

(13) Report No. 74 dated 1 June 1945.

----- [USB-13 Roll No. 87] -----

(14) Report No. 75 dated 15 June 1945.

(15) Report No. 76 dated 29 June 1945.

(16) Report No. 77 dated 13 July 1945.

(17) Report No. 78 dated 28 July 1945.



(18) Report No. 79 dated 11 August 1945.

(19) Report No. 80 dated 25 August 1945.

----- [USB-13 Roll No. 87A] -----

\**t.* Regulations governing youth's school-Niigata Prefecture, 1939.

\**u.* Metropolitan police statistics, 1944.

\**v.* Civilian-defense association regulations.

----- [USB-13 Roll No. 88] -----

12. The Effects of Bombing on Health and Medical Services in Japan (final report and original draft).

*a.* Medical facilities and personnel:

(1) Public health organizations of Japan:

(a) Institute of public health.

(b) Report of public health administration in Japan.

(c) Organization chart and personnel of Ministry of Health and Social Affairs.

(2) Reports and notes on effect of bombing on medical facilities:

(a) General medical report.

(b) Notes re interview on experience with atomic-bomb victims.

(c) Notes re casualties and treatment resulting from air raids.

(d) Notes re interview on effects of bombing of Kyoto Imperial University.

(e) Notes re interview on casualties, precautions and treatments at St. Luke's hospital, Tokyo.

(f) Notes re interview on casualties, precautions and treatments at Imperial University hospital, Osaka.

(g) Notes re interview on effects of bombing on civilian population and summary of health problem, Osaka Prefecture.

(h) Notes re interview on hospital evacuation plans, air-raid shelters and copy of first-aid counter-plan for air defense and medical treatment.

(i) Notes re interview on Japanese medical schools.

(3) Hospital, doctor and dentist strength:

(a) Report on Matsuzawa Psychiatric hospital of metropolitan Tokyo.

(b) Table of hospital capacities—46 Japanese cities.

(c) Tables of hospital strength, number of doctors and dentists, report of Japanese public health and synopsis of relief laws.

(d) Table of annual investigation of figures on physicians—1935 through 1942 (various tables showing number of physicians, nurses, hospitals, capacities and patients).

- (e) Letter and tables on number of hospitals, physicians and veterinarians (United States).
- (d) Table showing number of hospital beds and number of beds per 1,000 population for each State and entire United States.
- (4) Japanese Army reports on medical services and projects:
  - (a) Report on medical services of Japanese Army.
  - (b) Report on system for evacuation of sick and wounded personnel in combat.
  - (c) Report on organization of Japanese Army medical department (information on physicians, hospitals, casualties, etc.).
  - (d) Report on research projects of Japanese Army Medical College and English summary of findings.
- b. Nutrition and food supply:
  - (1) Nutrition:
    - (a) Pamphlet—intermediate metabolism in the disturbances of nutrition due to cancer, tuberculosis, chronic internal ulceration, beriberi and anaemia.
    - (b) Extracts from Far East relief requirements report of United Nations Relief and Rehabilitation Administration, subcommittee on health for the Far East.
    - \* (c) Wartime nutrition standards in Japan.
    - (d) Wartime nutrition standards classified by type of work.
    - (e) Wartime nutrition standards classified by occupation.
    - \* (f) Chart—wartime nutrition standards classified by age (part Japanese).
    - (g) Surveys and notes—survey of present nutritional condition of nation and physical condition of population (Nutritional): a survey of trends.
    - (h) Table—comparison of amounts of nutrition taken individually (June 1945) in several cities.
      - (i) Table—present diet of Japanese people and comparisons—1926 and 1928.
    - \* (j) Report—outline of improvement works on nutrition (part Japanese).
    - \* (k) Pamphlet—standards of weight among Japanese children.
      - (l) Notes re interview on malnutrition.
    - (m) Table—malnutrition with edema.
    - \* (n) Table—food conditions of nurses in Aiiiku hospital (3 days, 1944) (part Japanese).
      - (o) Report—chief diagnostic standpoints of malnutrition in polyclinic, Kyoto Imperial University.
    - \* (p) Table—weight of pregnant women, Aiiiku Research Institute (part

- Japanese).
- \* (q) Report—health consultation of children, one village in Yamanashi Prefecture (part Japanese).
  - \* (r) Report—citizens' nourishment condition, Osaka Prefecture, last 10 days of February, 1942 (part Japanese).
  - \* (s) Report—Japanese Army provisions, history and recent situation (part Japanese).
    - (t) Report—staff study on Japanese Army subsistence.
    - (u) Report—extract from Army Medical College studies regarding decreased nutrition.
    - (v) Two volumes on standards of nutrition, Japan.
- (2) Food supply:
- (a) Notes on food supplies in several Japanese cities.
  - (b) Report—food and maintenance of same (government of Tokyo through Eighth Army).
  - \* (c) Table—per capita consumption of food sent from Korea and Formosa (part Japanese).
  - (d) Report—comparisons, changes, components, and black-market purchases to meet family needs of nutrition.
  - (e) Report—food situation in Japan.
  - (f) Report—Tokyo inspection, civilian defense, food, housing, venereal disease, and water.
  - (g) Report—quantity of food distributed among persons, Osaka Prefecture (1942-45 and prewar averages).
  - (h) Table—quantities of food distributed among population of Osaka Prefecture (prewar to 1945 averages).
  - \* (i) Report—distribution of fruits and substitution of artificial milk for cow's milk (part Japanese).
    - (j) Tables—foodstuff and actual consumption by the population 1931 to 1935 and 1939.
    - (k) Report—control over supply of staple foodstuffs.
    - (l) Table—stocks of staple food (government control rice and barley).
    - (m) Notes—methods for determining the milling grades of rice.
    - (n) Letter and charts—production and imports of various fertilizers and extent of usage.
- (3) Requirements to maintain life and efficiency:

- \* (a) Pamphlet—calorie and protein requirement of Japanese.
  - \* (b) Pamphlet—standard nutritional requirements for Japanese.
  - \* (c) Pamphlets and notes—experiments dealing with minimum food necessary to maintain human life.
  - \* (d) Table—minimum amount of food essential to provide each individual with 2,000 calories per day (part Japanese).
  - \* (e) Reports and notes—extent to which civilians can go without food in cold climate and tropics (part Japanese).
- (4) Damages to food caused by air raids:
- \* (a) Table—damage by war to Miso (part Japanese).
  - \* (b) Table—damage by war to Shoyu.
    - (c) Table—damage by air raids to marine products.
    - (d) Table—damage by air raids to foodstuffs.
  - \* (e) Table—damage by air raid to staple food (local food corps) (part Japanese).
  - \* (f) Table—damage by air raids to staple food (government controlled rice). (part Japanese).
  - (g) Table—damage by air raids to supplementary foods.
  - (h) Table—damage by air raids to foods and raw materials.
  - (i) Table—damage by air raids to food stocks in home islands.
  - (j) Notes and table—report of war damage to foodstuffs by United States bombing.
  - (k) Table—extent of air-raid damage to food (Osaka Fu).
  - (l) Table—extent of air-raid damage.
  - (m) Table—extent of air-raid damage to food stocks (Hyogo Ken).
  - (n) Report—investigation of influence upon foodstuffs and damages caused by air raids.
- c. Environmental sanitation:
- (1) Sanitation surveys and regulations.
- \* (a) Laws and regulations and established rules relative to welfare and sanitation.
  - (b) Sanitation report—Miyakonajo City.
  - (c) Sanitation survey—Miyazaki Shi.
  - (d) Sanitation survey—Hiroshima.
  - (e) Sanitation survey—Kumamoto.
  - (f) Sanitation survey—Shimabara and Obama Machi, Nagasaki Ken.
  - (g) Sanitation survey—Omuta Shi.

- (h) Sanitation survey—Kumamoto (general information).
  - (i) Chapter VI—"Public Health and Sanitation-Osaka, 1930. "
  - (j) Outlines of data sought and officials interrogated in sanitation report.
  - (k) General notes on sanitation.
- (2) Water-testing data and private-well figures:
- \*(a) Report—information on Kyoto hygienic testing station (part Japanese).
  - \*(b) Standards of drinking water of Japanese (part Japanese).
  - (c) Notes re biological research methods.
  - \*(d) Notes re water testing and disease prevention (part Japanese).
  - \*(e) Bacteriological analysis—water testing (part Japanese).
  - (f) Notes re manual on methods of testing water.
  - (g) Report of interview re water supply at federal level.
  - (h) Table—water supplies of 66 bombed cities of Japan.
  - (i) Notes re private wells in 6 Japanese cities.

----- [USB-13 Roll No. 89] -----

- (3) Tokyo water system:
- \*(a) Manual—Water main reference works, No. 3, Tokyo.
  - (b) Table of water supply and results of water analysis of seven filter plants, Tokyo.
  - (c) Report on water supply of city of Tokyo.
  - (d) Interview on water supply, Tokyo.
  - (e) Explanation of installations of Tokyo water-works.
  - (f) Explanation of Tokyo waterworks for USSBS.
  - (g) Information on water supply, Tokyo.
  - (h) Information on water supply and death records, Tokyo.
  - \*(i) Notes and pamphlet—"Tokyo Water Supply Works Yearly Report (1936 Fiscal Year). "
  - \*(j) Notes and pamphlet showing quality of well water within Tokyo (part Japanese).
- (4) Kyoto water system:
- (a) Map—Kyoto water systems.
  - (b) Map—Keage filtering plant, Kyoto. [蹴上浄水場]
  - (c) Map—Yamasina purification plant, Kyoto.
  - (d) Map—Matugasaki purification plant, Kyoto.
  - (e) Map—Momoyama purification plant. Kyoto.
  - (f) Investigation of Kyoto water supply system.

- \* (g) Japanese documents and notes on Kyoto water supply.
  - (h) Data on water supply, Kyoto.
  - \* (i) Data on Kyoto water supply tests (part Japanese).
  - (j) Data on several sources of Kyoto, water supply.
  - \* (k) Maps (2)—Over-all of sewerage section and main lines, and city of Kyoto.
- (5) Yokohama, Osaka, Kobe, Nagoya, Kagoshima, and Hiroshima water supplies and systems:
- (a) Report on Yokohama water supply.
  - (b) Report on present condition of Yokohama water system.
  - (c) Data on Yokohama water supply.
  - (d) Interview on Yokohama water supply.
  - \* (e) Maps (2)—Yokohama waterworks.
  - \* (f) Report on examination of quality of water in Osaka, water bureau. Shibashima watershed (part Japanese).
  - (g) Table of water standards, Osaka.
  - (h) Outline of Osaka municipal water system.
  - (i) Data on water supply, Osaka Wan.
  - \* (j) Japanese documents on drinking water, Osaka.
  - \* (k) Map—water purification system, Osaka.
    - (l) Existing conditions, Kobe water system.
  - (m) Notes on Nagoya water system.
  - (n) Report on Kagoshima water supply.
  - (o) Civilian-defense report on Hiroshima water systems.
  - (p) Data on water supply, Hiroshima.
  - \* (q) Water table (1940), Hiroshima.
- (6) Nagasaki water system:
- (a) Letter and questionnaire on Nagasaki water.
  - (b) Report—laboratory control of Nagasaki water.
  - (c) Notes on testing of Nagasaki water.
  - (d) Report—water supply for Nagasaki city.
  - \* (e) Charts—4 water distribution systems, Nagasaki.
  - \* (f) Lay-out sketch and tabulations, Nagasaki water.
  - (g) Outline of Nagasaki waterworks.
  - (h) Results of tests on samples taken from distribution systems of Nagasaki waterworks.
  - (i) Table of turbidity of raw water, Nagasaki plants.

- (j) Data on Nagasaki water supply.
  - (k) Notes—general information on Nagasaki plants.
  - (l) Table—damages to water supply mains, Nagasaki.
- (7) Over-all sewerage, garbage and waste disposal:
- (a) List of municipalities that obtained permission to construct sewers up to and including 1938.
  - (b) List of municipalities showing point of discharge' and disposal areas for sewage and waste.
  - (c) List of municipalities bombed which had sewerage systems, showing bomb type and tonnage and percent of area destroyed.
  - (d) Sewerage data on Osaka, Amagasaki, Nishinomiya, Kobe.
  - (e) Table showing number of houses served, amount removed and method of disposal of waste and night soil in Japanese municipalities.
  - (f) Table showing number of houses served, amount removed and method of disposal of waste and night soil in Japanese municipalities.
  - (g) List of municipalities bombed but not having garbage collection.
  - (h) Pencil sketches of cesspools used in Japan.
- (8) Sewage, garbage, and night soil disposal—Tokyo:
- (a) Report on sewage system of Tokyo.
  - \* (b) Report on sewage works of Tokyo.
  - (c) Data on sewage, Tokyo.
  - (d) Interview on sewage system of Tokyo.
  - (e) Notes on sewage and night soil collection, Tokyo, Kyoto, and Osaka.
  - \* (f) Report on Tokyo refuse and night soil disposal.
  - (g) Data on garbage and refuse disposal, Tokyo.
  - (h) Report on reconstruction and scavenger service (provisional), Tokyo.
  - \* (i) Report on destruction by war and repair of Tokyo sewage system.
  - \* (j) Map—Tokyo sewage system (Tokyo Shi).
- (9) Sewage, garbage and night soil disposal—Kyoto:
- (a) Data on sewage, Kyoto.
  - \* (b) Notes on outline of sewage disposal, Kyoto Shi (part Japanese).
  - \* (c) Notes and pamphlet—drainage canals and rivers of Kyoto.
  - \* (d) Photos and description of Kyoto municipal Yokooji disposal plant (part Japanese).
  - (e) Interview on garbage and refuse collection, Kyoto.
  - (f) Data on garbage and refuse disposal, Kyoto.

- (10) Sewage, garbage and refuse disposal—Osaka.
- \*(a) Outline of sewage control project (Japanese pamphlet), Osaka.
  - (b) Summary of plans for sewage disposal, Osaka.
  - (c) Table showing number of persons served by sewer systems of Osaka City.
  - d) Interview on sewage system of Osaka.
  - (e) Data on sewage, Osaka.
  - (f) Table showing plant equipment in Shinshu and Ebie disposal plants, Osaka.
  - \*(g) List of damages to Ebie sewage treatment plant, Osaka.
  - (h) Map—plan of Ebie sewage treatment plant, Osaka.
  - \*(i) Map—damages, dates of same and date of repair, sewage system of Osaka.
  - (j) Data on garbage and refuse disposal, Osaka.
- (11) Sewage, garbage and refuse, and night soil disposal, Nagasaki, Yokohama, Kobe, Hiroshima, Sasebo Shi:
- (a) Interview on sewage disposal, Nagasaki.
  - \*(b) Data on sewage, Nagasaki.
  - (c) Interview on garbage and refuse disposal, Nagasaki.
  - (d) Data on garbage and refuse disposal, Nagasaki.
  - (e) Interview on garbage and refuse disposal, Yokohama.
  - (f) Data on garbage and refuse disposal, Yokohama.
  - (g) Notes on sewage, Kobe.
  - (h) Data on sewage, Hiroshima.
  - (i) Report—night soil collection problem in Sasebo Shi.
- (12) Food, drink and other commodities control, Tokyo, Osaka, Nagasaki, Kyoto, and Hiroshima.
- (a) Data on milk and food control, Tokyo.
  - (b) Notes—milk and food control, Tokyo.
  - (c) Extract from regulations for control of milk industry. Osaka.
  - (d) Extracts and notes from health service bulletin, section on regulating food and drink and other commodities, Osaka.
  - \*(e) Regulations on food control and inspection, Osaka.
  - (f) Data on milk and food control, Osaka.
  - \*(g) Letter and regulation re food and drink businesses, Nagasaki.
  - (h) Regulations concerning food and drink businesses, Nagasaki.
  - (i) Interview on milk and food sanitation, Nagasaki.
  - (j) Data on milk and food control, Nagasaki



- (k) Data on milk and food control, Kyoto.
- (l) Data on milk and food control, Hiroshima.
- (13) Insect and rodent control, Tokyo, Nagasaki, Osaka, Kyoto, and Hiroshima.
  - (a) Data on insect and rodent control, Tokyo.
  - (b) Notes on insect and rodent control, Tokyo.
  - (c) Interview on insect and rodent control, Nagasaki.
  - (d) Data on insect and rodent control, Nagasaki.
  - (e) Data on insect and rodent control, Osaka.
  - (f) Data on insect and rodent control, Kyoto.
  - (g) Data on insect and rodent control, Hiroshima.
- (14) General information, Tokyo, Nagasaki, Kyoto, Hiroshima, Yokohama, and Osaka:
  - (a) Questionnaire for head of housing corporation, major towns and cities of Japan.
  - (b) Interview on housing, Tokyo.
  - (c) Notes on division of work of public welfare bureau.
  - (d) Notes on sewerage, water, and housing, Tokyo.
  - (e) Notes on general sanitation, Tokyo.
  - (f) Notes on sewage and milk and food control, Tokyo and other cities.
  - (g) Data on general information, Tokyo.
  - (h) Notes on interrogations on sanitation, milk and food control, and insect and rodent control, Tokyo.
  - (i) Report—general information, Nagasaki.
  - (j) Report—attacks on Nagasaki (air).
  - (k) Table—air-raid casualties and damage, Nagasaki.
  - (l) Table—AAF bombing of Nagasaki.
  - (m) Interview on evacuation and disposal of dead, Nagasaki.
  - (n) Report—general information, Kyoto.
  - \* (o) Manual on governing of Kyoto giving population figures, 1943.
  - (p) Report—general information, Hiroshima.
  - (q) Report—general information, Yokohama.
  - (r) Report—general information, Osaka.
  - \* (s) Summary of conditions. Osaka Fu (area, population, industry, etc.).
- d.* Industrial hygiene:
  - (1) General data:
    - (a) Table—reported cases of occupational diseases in 1944 (from 34 to 47

prefectures).

- (b) Data on occupational diseases, institute of public health.
- (c) Data on industrial hygiene (absenteeism and hours of work, etc.).
- (d) Data on industrial hygiene (nutrition notes).
- \* (e) Pamphlet—investigations on sleep and rest of factory workers.
- (f) Notes on accident prevention training (unidentified plant).
- (g) Newspaper clipping from. "Pacific Stars and Stripes"—war controls on labor, dropping of.
- (h) Table—localization of skin diseases due to explosive powder, 1942 and 1943 (Mitsubishi Dye-stuffs Company).
- (i) Table—industrial poisoning in an explosives manufacturing plant, 1942 and 1943.
- (j) Tablet—industrial poisoning in a dye-stuffs factory, January 1936 to September 1938.
- (k) Table—result of survey re health conditions of industrial workers who were absent from duty due to sickness over 14 days (March 1945).
- (l) Table—industrial accidents for all Japan, 1937 to 1942.
- (m) Table—subjective symptoms of workers in an explosives plant in 1944.
- (n) Table—industrial accidents in several plants.
- (o) Table—actual number of industrial accidents in 1942 (several industries).
- (p) Report and tables—factory survey of 120 plants (institute of public health).
- (q) Notes—conference on industrial hygiene, leprosy, and tuberculosis.
- (r) Report—number of deaths and injured persons from air raids among industrial workers (report to 18 September 1945, by prefecture).
- (s) Notes—interview on industrial hygiene (factories, mines, and construction industry).

----- [USB-13 Roll No. 89A] -----

- (2) Tokyo, Osaka, Nagasaki, and Hiroshima:
  - (a) Notes—industrial hygiene (Nakajima Aircraft Company), Tokyo.
  - (b) Report from medical department of Tokyo-Shibaura Electric Company, Tokyo.
  - (c) Notes—medical facilities and working conditions at Tokyo-Shibaura Electric Company, Tokyo.
  - (d) Tables—causes of rejection at the pre-employment medical examination (Nakajima Aircraft Company), Tokyo.
  - (e) Pamphlet—report on survey of production employees inspected in

connection with physical conditions (Nakajima Aircraft Company), Tokyo.

- (f) Notes—industrial hygiene, Osaka Prefecture.
- (g) Notes—industrial hygiene, Osaka.
- (h) Notes—industrial hygiene, factories of Osaka Prefecture.
- (i) Notes—industrial hygiene, Osaka (Yaussa Battery Company).
- (j) Outline and tables-industrial hygiene, Osaka Prefecture.
- (k) List and tables-essentials of health-keeping management in principal factories and workshops, figures on dead and wounded from atomic bomb and report of births and deaths. Nagasaki.
- (l) Notes, tables, reports-industrial hygiene, various companies. Nagasaki.
- (m) Outline—industrial health and hygiene, Hiroshima.
- (n) Notes—accident rate (1939-44) at Kamaishi plant of Nippon Steel Company.

e. Infectious diseases:

- (1) General information:
  - (a) Notes—general information on communicable diseases.
  - (b) Pamphlet—government institute for infectious diseases.
  - (c) Table—actual number of tuberculosis deaths by age groups, 1902-43.
  - (d) Table—tuberculosis death rate per 100.000 population by age and sex, 1943.
  - (e) Table—total deaths and tuberculosis deaths and rates for all Japan, 1926-43.
  - (f) Table—tuberculosis cases among personnel of central government offices found by routine medical examinations, 1944.
  - (g) Report—course for training of public health officers under auspices of Government Institute for Infectious Diseases.
  - (h) Notes—trend of disease incidence among tubercular and other patients.
  - \* (i) Pamphlet—Halberstaedter—Prowazek bodies, especially their morphology in tissue culture.
  - (j) Notes—notifiable diseases.
  - (k) Report—venereal disease control (General headquarters, United States Army Forces, Pacific), 15 November 1945.
  - (l) Notes—interview on venereal diseases (treatment and steps to prevent spread).
- (2) Tokyo, Osaka, Nagasaki, Hiroshima, Kyoto, Kobe, and Omura:
  - (a) Notes—communicable diseases, Tokyo

- (b) Notes—interview on communicable diseases, Tokyo.
  - (c) Notes—communicable diseases, Tokyo.
  - (d) Notes and outline—effects of bombing on venereal disease.
  - (e) Table—record of health examination of first week of November (Joro) (Venereal diseases), Tokyo City.
  - (f) Notes—venereal disease control and extent of prostitution, Tokyo.
  - (g) Notes—venereal disease control and examination for infection, Tokyo. (Table—results of blood tests for syphilis, Tokyo, 1945.)
  - (h) Notes and table—results of tuberculosis surveys in industry, Osaka Prefecture.
  - \*(i) Table—various infectious diseases by city, Osaka Prefecture.
  - (j) Table—results of tuberculosis surveys in industry, Osaka Prefecture.
  - (k) Table—results of survey of young males, Osaka Prefecture.
  - (l) Table—outbreak of acute contagious disease groups (1935-43), Osaka Fu.
  - \*(m) Notes and pamphlet—Osaka infectious disease hospital (part Japanese).
  - (n) Notes—infectious diseases and venereal disease, Osaka.
  - (o) Notes—infectious diseases and venereal disease, Osaka.
  - (p) Report—incidence of infectious diseases, Nagasaki. Ken, and Shi.
  - (q) Table—outbreak of infectious diseases, Nagasaki City (part Japanese).
  - (r) Reports—public health report on infectious diseases, Nagasaki Shi (20 October 1945-3 November 1945).
  - (s) Notes—venereal diseases, Nagasaki.
  - (t) Table—statistics on medical examination of prostitutes for venereal diseases, Nagasaki (March to October 1945).
  - (u) Notes—venereal disease tests and treatments, Nagasaki.
  - (v) Outline—acute epidemic diseases, Hiroshima.
  - (w) Outline—effects of bombing on venereal diseases, Hiroshima.
  - (x) Notes—infectious diseases and venereal disease, Kyoto.
  - (y) Notes—infectious disease (tuberculosis) and venereal diseases, Kobe.
  - (z) Report—public health report on infectious diseases (week of 3 November 1945), Omura Shi.
- (3) Health conditions, diseases and treatment, Japan:
- (a) Report—health conditions of mothers and children, especially the influence of the war on.
  - (b) Report—diseases and health condition of people in zones occupied by Sixth Army (end of September 1945).

- (c) Table—compilation of diseases of pregnant women (one village in Kanazawa Prefecture).
- (d) Tables—various diseases and number of out-patients (January to September 1945).
- \* (e) Charts—showing treatment for edema (Japanese and English).
- (f) Charts—showing various diseases (urine and blood analyses).

*f.* Medical supplies:

- (1) Lists of drugs in short supply, Japan (part Japanese).
- (2) List of allotment of production—43 essential drugs, 1942-45.
- (3) Actual annual production—43 essential drugs—1936-44.
- (4) Actual quarterly production—43 essential drugs—1941-44.
- \* (5) Imports, exports and statistics on destroyed factories (part Japanese).
- (6) Letter showing capacity and annual production (potential) and proceeds of sale of various drugs.
- \* (7) Tables of production—various sulfa drugs—1943-45 (part Japanese).
- \* (8) Table of factories, locations, principal products and bomb damage.
- \* (9) Information on drug imports—1941 (part Japanese).
- (10) Table—drug imports—1941.

*g.* General information—all Japan:

- (1) Report—evaluation of school children in Japan:
- (2) Briefing chart, Kobe and Osaka.
- (3) Map—city of Tokyo.
- (4) Map—central Japan.
- \* (5) Book and notes (Translations) —public savings tables (part Japanese).

*h.* Photographs and negatives.

----- [USB-13 Roll No. 90] -----

*i.* Vital statistics:

- (1) Vital statistics—Yokohama.
- (2) Vital statistics—Kyoto.
- (3) Vital statistics—Nagoya.
- (4) Vital statistics—Osaka.
- (5) Vital statistics—Kobe.
- (6) Vital statistics—Sendai.
- (7) Vital statistics—Tokyo.
- (8) Vital statistics—Japan.

----- [USB-13 Roll Nos. 90-90A] -----

- (9) Number of admissions and deaths by month and diagnosis for hospitals in Kobe, Kyoto, Nagoya, Osaka, Sendai, Tokyo, and Yokohama.

----- [USB-13 Roll No. 90A] -----

- (10) Number of admissions by month and diagnosis for psychiatric hospitals in Kobe, Yokohama, Tokyo, Kyoto, and Sendai.
- (11) Vital statistics—Tokyo.
- (12) Vital statistics—Sendai.
- (13) Vital statistics—Osaka.
- (14) Vital statistics—Nagoya.
- (15) Vital statistics—Kyoto.
- (16) Vital statistics—Kobe.
- (17) Work sheets on population of six largest cities of Japan.
- (18) Work sheets on tables for report on number of casualties.

----- [USB-13 Roll Nos. 90A-90B] -----

- (19) Work sheets on tables for report on notifiable diseases.

----- [USB-13 Roll No. 90B] -----

- (20) Work sheets on hospital admissions.

*j.* Graphs, charts, and Maps.

*k.* Illustrations of final medical report:

- (1) Various charts used in final report.

*l.* Preliminary drafts of title page through Chapter I introduction:

- (1) Preliminary draft of title page (final report).
- (2) List of chapters (final arrangement).
- (3) Preliminary draft of table of contents.
- (4) Preliminary draft of list of illustrations.
- (5) Preliminary draft of list of tables.
- (6) Preliminary draft of list of appendices.
- (7) Copy of transmittal memo on summary report to chairman.
- (8) Preliminary and semifinished drafts of summary report.
- (9) Preliminary draft of Chapter I, introduction to final report of medical division.
- (10) Receipt for supporting documents.

----- [Roll No. 91] -----

*m.* Preliminary drafts and work sheets on Chapter II, medical facilities and personnel:

- (1) Preliminary drafts of Chapter II, medical facilities and personnel.
- (2) Work sheets and tables (preliminary) on Chapter III.

- n.* Preliminary drafts of Chapter III, food supply and nutrition:
  - (1) Preliminary drafts of Chapter III, food supply and nutrition.
  - (2) Preliminary drafts, work sheets, tables and graphs.
- o.* Preliminary drafts of Chapter IV, environmental sanitation:
  - (1) Preliminary drafts of Chapter IV, environmental sanitation.
- p.* Preliminary drafts of Chapter V, industrial health and hygiene, and Chapter VI, air-raid casualties:
  - (1) Preliminary draft of Chapter V, industrial health and hygiene.
  - (2) Newspaper clipping from Washington Daily News dated 4 October 1945.
  - (3) Preliminary drafts of Chapter VI, air-raid casualties.
  - (4) Appendix A-1 of Chapter VI.
  - (5) Appendix A-2 of Chapter VI.
  - (6) Work sheets and tables on Chapter VI.

----- [USB-13 Roll Nos. 91-91A] -----

- q.* Preliminary drafts of Chapter VII, notifiable diseases:
  - (1) Preliminary drafts of Chapter VII, notifiable diseases.

----- [USB-13 Roll No. 91A] -----

- (2) First draft of Chapter VII.
- r.* Preliminary drafts of Chapter VIII, general morbidity:
  - (1) Notification of manuscript clearance from chief, office of health information, for Chapter VIII, general morbidity.
  - (2) Preliminary draft of Chapter VIII.
  - (3) First draft of Chapter VIII.
  - (4) List of graphs, work sheets, drafts, and tables.

----- [Missing] -----

- s.* Preliminary drafts of Chapter IX, tuberculosis, Chapter X, venereal diseases and Chapter XI, medical supplies:
  - (1) Preliminary draft of Chapter IX, tuberculosis.
  - (2) Preliminary draft of Chapter X, venereal diseases.
  - (3) Preliminary draft of Chapter XI, medical supplies.
  - (4) First drafts of Chapter XI, work sheets, graphs and tables of Chapter XI.

----- [USB-13 Roll No. 91A] -----

13. The Effects of Atomic Bombs on Health and Medical Services in Hiroshima and Nagasaki (final report and original draft):

- a.* Report of effects of atomic bombs on health and medical services:

----- [USB-13 Roll No. 92] -----

- (1) Corrected copy and two drafts of complete report.
  - (2) Draft of introduction.
  - (3) Draft of medical division staff.
  - (4) Draft and notes on environmental sanitation.
  - (5) Notes and figures on populations of Nagasaki and Hiroshima.
  - (6) Survey memorandum on population and casualty figures for Hiroshima and Nagasaki (three copies).
  - (7) Survey memorandum on interdivision coordination and correlation of data and uniformity in presentation.
  - (8) Nagasaki field report, Civilian Defense Division.
  - (9) Memo regarding changes and comments on medical Division reports.
  - (10) Transmittals and receipts for changes, figures, and reports.
- b.* Reports on atomic bombing—British, American, and Japanese (observations made by persons other than staff of Medical Division):
- (1) Excerpts from British mission to Japan on investigation of the effects of the atomic bombs dropped on Hiroshima and Nagasaki (five copies).
  - (2) Atomic Bomb Hysteria, by Maj. Alexander P. de Seversky, and newspaper clipping from Baltimore Sun, 28 January 1946, Hiroshima Seeks United States Help.
  - (3) USSBS report given by Lieutenant Colonel Oya of First Demobilization Ministry (Hiroshima)
  - (4) USSBS report given by Dr. Yoshio Nishina, Japanese scientist (Hiroshima and Nagasaki).
  - (5) USSBS report given by Father Siemes, novitiate of the Society of Jesus in Nagatsuka, titled "Eyewitness Account of the Bombing of Hiroshjma."
- c.* Food supply and nutrition and nature and numbers of casualties:
- (1) Food supply and nutrition:
    - (a) Notes and work sheets.
    - (b) Fishing industry in Nagasaki Ken
    - (c) Effect of bombing on nutritional status, morbidity and mortality in area following bombing.
    - (d) Interview of Takubo Shingo, assistant chief of Hiroshima food office on plan for emergency feeding and evidence of malnutrition.
    - (e) Cable on request for verification and confirmation of report on fishing industry.
    - (f) Letter on fisheries report.



- (g) Table on basic commodity ration of cereals as of end of October 1945, obtained from American Military Government, Nagasaki.
- (2) Nature and numbers of casualties and incidence of infectious diseases:
  - (a) Notes on interview with Lieutenant Colonel Averill A. Liebow of joint Army commission for atomic bomb investigation.
  - (b) Notes on interview with Dr. Takemaru Kitajima, chief of health department, Hiroshima Prefecture.
  - (c) Interrogation of Lieutenant Colonel H. V. LeRoy, Omura Naval hospital.
  - (d) Interrogation of officials of Nagasaki Prefectural health department on incidence of infectious diseases in Nagasaki ken and shi.
  - (e) Draft and notes on infectious diseases and venereal diseases in Nagasaki.
  - (f) List of records on industrial hygiene, venereal diseases, and other communicable diseases.
  - (g) Notes of conferences of Dr. R. H. Flinn on various diseases.
  - (h) Clinical summary of a case dying of radiation disease in Hiroshima.
- d. Vital statistics and medical facilities and personnel:
  - (1) Vital statistics.
    - (a) Transmittals and receipts for various statistics on case totals and deaths from diseases.
    - (b) List of prefectures and hospitals on admissions and deaths by month and diagnosis during indicated periods.
  - (2) Medical facilities and personnel:
    - (a) Work sheet on effects of atomic bombing on medical facilities and personnel.
    - (b) Information obtained from 93d Military Government headquarters detachment, Nagasaki, on medical facilities.
    - (c) Report of statistics on Nagasaki medical school.
    - (d) Report of Professor Tsuzuki of Medical Research Commission on work of same.
    - (e) Work sheets and notes on medical facilities and surveys.
- e. Photographs in atomic report:
  - (1) Complete copy of illustrations (photos and graphs).
  - (2) Photos and charts (extra and without captions).
  - (3) List of photographs at Hiroshima.
- 14. The Effects of Strategic Bombing on Japanese Morale (final report and original draft):

a. Sampling data, instructions, and procedure (consisting of nine envelopes):

- (1) Outline of local government showing American equivalents.
- (2) List of primary areas in morale system.
- (3) Itinerary of sampling teams.
- (4) Memoranda on estimated number of interviews for various areas.
- (5) Outline of proposed design for surveying effects of bombing on Japanese morale.
- (6) Design of survey for evaluating effects of bombing on Japanese morale.
- (7) Objective of survey of Japanese group morale attitudes.
- (8) Suggested statement of objectives of program for research work in Japan.
- (9) Nature of work to be performed by interviewers.
- (10) Policies and plans for Morale Division in general.
- (11) Organization and administration of Morale Division in Pacific.
- (12) Sampling instruction for rural Hiroshima.
- (13) Sampling instruction for rural Nagasaki.

----- [USB-13 Roll No. 93] -----

- (14) Instruction for sampling within designated areas.
- (15) Sampling ratios within designated areas.
- (16) Various instructions and supplements for sampling.
- (17) Calculation sheet for sampling numbers.
- (18) Instructions and notes on machine coding.
- (19) Work sheets pertaining to machine coding.
- (20) Data on persons to be interviewed in various localities.
- (21) Data on persons to be interviewed in various localities.
- (22) Actual interviews per sample point.
- (23) Sampling reports.
- (24) Police reports on investigations.
- (25) List of cities to be checked for migrants and unknowns.
- (26) List of areas showing estimated bombing damage.
- (27) Preliminary compilations of bomb damages.
- (28) Outline of sampling zones showing bombed areas.
- (29) List of sample areas.
- (30) Miscellaneous interoffice communications.
- (31) Work sheets.

----- [USB-13 Roll Nos. 93-94] -----

b. Sample lists returned by interview team leaders (consisting of three envelopes).

- [USB-13 Roll No. 94] -----
- c. Hiroshima report on sampling (consisting of two envelopes).
- [USB-13 Roll Nos. 94-97] -----
- d. Training and pre-test interviews (consisting of 10 envelopes).
- [USB-13 Roll Nos. 97-98] -----
- e. Resident interviews, by city (consisting of 150 envelopes):
- (1) Akami.
- [USB-13 Roll Nos. 98] -----
- (2) Akita.
- (3) Anetai. [姉体 (秋田県水沢郡) ]
- (4) Asahi-Mura.
- [USB-13 Roll Nos. 99-100] -----
- (5) Fukuoka.
- [USB-13 Roll No. 100] -----
- (6) Funabashi.
- [USB-13 Roll Nos. 100-101] -----
- (7) Gifu.
- [USB-13 Roll Nos. 101-102] -----
- (8) Hagi.
- [USB-13 Roll No. 102] -----
- (9) Hera.
- (10) Hiroshima.
- (11) Isahaya.
- (12) Kabe.
- [USB-13 Roll Nos. 102-103] -----
- (13) Kano.
- [USB-13 Roll Nos. 103-104] -----
- (14) Kawagoe.
- [USB-13 Roll No. 104] -----
- (15) Kobe.
- (16) Kodo.
- [USB-13 Roll No. 105] -----
- (17) Kokura.
- (18) Kure.
- [USB-13 Roll No. 106] -----
- (19) Kyoto.

- (20) Meiji.  
----- [USB-13 Roll Nos. 106-107] -----
- (21) Mihara.  
----- [USB-13 Roll No. 107] -----
- (22) Mikkaichi.  
(23) Miyako.  
----- [USB-13 Roll No. 108] -----
- (24) Mizusawa.  
(25) Mogi.  
(26) Moriyama Machi.  
----- [USB-13 Roll Nos. 108-109] -----
- (27) Nagano.  
----- [USB-13 Roll Nos. 109-110] -----
- (28) Nagaoka.  
(29) Nagasaki.  
----- [USB-13 Roll No. 111] -----
- (30) Nagoya.  
----- [USB-13 Roll No. 112] -----
- (31) Nishiebara.  
(32) Ogaki.  
----- [USB-13 Roll Nos. 113-114] -----
- (33) Osaka.  
----- [USB-13 Roll No. 114] -----
- (34) Oyu.  
----- [USB-13 Roll Nos. 114-114A] -----
- (35) Saitama.  
----- [USB-13 Roll Nos. 114A-115] -----
- (36) Sakai.  
----- [USB-13 Roll No. 115] -----
- (37) Sendai.  
(38) Shibahira.  
(39) Shimonoseki.  
----- [USB-13 Roll No. 116] -----
- (40) Shiogana-Mura  
(41) Shirosato.  
----- [USB-13 Roll No. 117] -----

- (42) Taira.
- (43) Tanuma.
- (44) Tokitsu.
- [USB-13 Roll Nos. 118-118A] -----
- (45) Tokyo.
- [USB-13 Roll No. 119]-----
- (46) Tomo.
- [USB-13 Roll No. 119A] -----
- (47) Toyama.
- [USB-13 Roll No. 120]-----
- (48) Toyonaka.
- (49) Utsunomiya.
- [USB-13 Roll No. 121]-----
- (50) Wakayama.
- (51) Yamada.
- [USB-13 Roll Nos. 121-121A] -----
- (52) Yamagata
- [USB-13 Roll No. 121A] -----
- (53) Yatsushiro.
- [USB-13 Roll Nos. 122-122A] -----
- (54) Yokohama.
- [USB-13 Roll Nos. 122A-123] -----
- (55) Yokosuka.
- [USB-13 Roll No. 123]-----
- (56) Yukukashi.
- (57) Yutaka.
- (58) Zushi.
- [USB-13 Roll No. 124]-----

*f* Special interviews, by locality (consisting of 67 envelopes):

- (1) Akita City:
  - (a) Special interviews.
  - \* (b) Matters investigated (part Japanese).
  - \* (c) Investigations of economic offenses (part Japanese).
  - \* (d) Bomb data (part Japanese).
  - \* (e) Medical reports (part Japanese).
  - (f) Map of city.

- \* (g) Leaflets with explanation (part Japanese).
- (2) Also Gun:
  - (a) Special interviews.
  - \* (b) Background report (part Japanese).
  - \* (c) Brief report on morale of the people (part Japanese).
  - \* (d) Map (Japanese).
- (3) Chiisagata Gun:
  - \* (a) Background report (part Japanese).
  - \* (b) Special interviews (part Japanese).
  - \* (c) Morale conditions in general (part Japanese).
  - \* (d) Notes on proceedings of town assembly (Japanese) (two booklets).
- (4) Fukuoka:
  - \* (a) Special interviews (part Japanese).
  - \* (b) Background report (part Japanese).
  - (c) Spirit of people in general.
  - (d) Report on fire department.
- (5) Funabashi:
  - \* (a) Special interviews (part Japanese).
  - \* (b) Morale of the people in general (part Japanese).
  - \* (c) Background report (part Japanese).
- (6) Gifu:
  - \* (a) Special interviews.
  - \* (b) Background report (part Japanese).
  - (c) Morale of the people in general.
  - \* (d) Medical facilities and conditions (part Japanese).
- [USB-13 Roll No. 125] -----
- (7) Hagi:
  - (a) Special interviews.
  - \* (b) Background reports (part Japanese).
  - \* (c) Reports and notes on various department of the city government (part Japanese).
  - \* (d) Morale of the people in general (part Japanese).
  - \* (e) Rules and arrangement of investment program for the people (part Japanese).
- (8) Higashi Kasugai Gun:
  - \* (a) Special interviews (part Japanese).

- \* (b) Background report (part Japanese).
  - (c) Sanitation conditions.
  - (9) Hiroshima:
    - (a) Special interviews.
    - \* (b) Background reports (part Japanese).
    - \* (c) Background report (Japanese).
    - (d) Morale of the people in general.
  - (10) Isahaya:
    - \* (a) Special interviews (part Japanese).
    - \* (b) Background reports (part Japanese).
    - (c) General condition of morale.
  - (11) Isawa:
    - \* (a) Special interviews (part Japanese).
    - (b) Medical reports.
- [USB-13 Roll Nos. 125-125A] -----
- \* (c) Background reports (part Japanese).
- [USB-13 Roll No. 125A] -----
- (12) Kawagoe:
    - (a) Special interviews.
    - \* (b) Background reports (part Japanese).
    - (c) General morale conditions.
  - (13) Kazuno Gun: [鹿角郡 (秋田県)]
    - (a) Special interviews.
    - (b) Background reports.
    - \* (c) Survey on rationing (part Japanese).
    - \* (d) Report on health conditions (part Japanese).
    - \* (e) Survey of evacuated persons (part Japanese).
    - \* (f) Labor statistics (part Japanese).
    - \* (g) Report on police cases (part Japanese).
    - \* (h) Survey of land ownership and tenancy (part Japanese).
    - \* (i) Figures on attendance at entertainment centers (part Japanese).
  - (14) Kita-adachi Gun:
    - \* (a) Special interviews and summaries of special interviews (part Japanese).
    - \* (b) Background reports (part Japanese).
  - (15) Kobe:
    - \* (a) Trends of morale among people (part Japanese).

- \* (b) Report by chief of police.
- (16) Kokura:
- \* (a) Special interviews (part Japanese).
  - \* (b) Background reports (part Japanese).
- (17) Kure:
- \* (a) Background reports (part Japanese).
  - \* (b) Bomb data (part Japanese).
  - \* (c) Report on relief from air attacks (part Japanese).
  - \* (d) Figures on number of air-raid casualties (part Japanese).
  - \* (e) Census figures (part Japanese).
  - \* (f) Figures on rationing (part Japanese).
  - \* (g) Figures on number of students enrolled in various schools.
  - \* (h) Report on Kure Grinding Wheel Company.
  - \* (i) Report on Kure Gas Company.
- (18) Kyoto:
- \* (a) Special interviews (part Japanese).
  - \* (b) Background reports (part Japanese).
- [USB-13 Roll No. 126] -----
- \* (c) General morale conditions (part Japanese).
  - \* (d) Report on defense plans (part Japanese).
  - \* (e) Table of victimized temples (part Japanese).
  - \* (f) Report on industry of fatty higher alcohols (part Japanese).
  - (g) Handbook on Imperial University,
- (19) Mihara:
- (a) Special interviews.
  - \* (b) Background reports (part Japanese).
  - \* (c) Report on activities of various organizations (part Japanese).
  - \* (d) Report on municipal office (part Japanese).
  - \* (e) Report on rationing and daily necessities (part Japanese).
  - \* (f) Record of alerts (part Japanese).
  - \* (g) Statistics on evacuation (Japanese).
  - \* (h) Figures on population variations (part Japanese).
  - \* (i) Labor statistics (part Japanese).
  - \* (j) Report on Toyo Rayon Spinning and Weaving Company (Japanese).
- (20) Minami Kawachi Gun:
- \* (a) Background reports (part Japanese).



- \* (b) Trend of people's morale (part Japanese).
  - \* (c) Notes and plans for investigation (part Japanese).
  - (d) Notes on special interviews.
  - (e) Labor statistics.
- (21) Miyako Gun:
- \* (a) Special interviews (part Japanese).
  - \* (b) Background report (part Japanese).
  - (c) Trend of people's morale.
  - \* (d) Information on labor (part Japanese).
- (22) Nagaoka:
- \* (a) Special interviews (part Japanese).
  - \* (b) Background reports (part Japanese).
  - \* (c) Excerpt from Niigata News (Japanese).
  - \* (d) Record of alerts (part Japanese).
  - (e) Labor statistics.
- (23) Nagasaki:
- \* (a) Special interviews (part Japanese).
  - \* (b) Outline of city's history (part Japanese).
  - \* (c) Background report (part Japanese).
  - \* (d) Trend of people's morale (part Japanese).
  - (e) Survey of effects of atomic bomb.
- (24) Nagoya:
- (a) Special interviews.
  - (b) Employment figures.
  - \* (c) Figures on students and their evacuation (part Japanese).
  - \* (d) Medical reports and records (part Japanese).
  - \* (e) Background report.
- [USB-13 Roll No. 126A] -----
- \* (f) Handbooks on education.
  - \* (g) Handbooks on health and sanitation.
  - (h) Handbooks on social works.
- [USB-13 Roll No. 127] -----
- (25) Nakakoma Gun:
- (a) Notes on special interviews.
  - \* (b) Background report (part Japanese).
  - \* (c) Trend of people's morale (part Japanese).

- (26) Minami Kawachi Gun:  
    (a) Special interviews.
- (27) Ogaki:  
    \*(a) Special interviews (part Japanese).  
    \*(b) Background reports (part Japanese).  
    \*(c) Medical records and reports (part Japanese).  
    (d) Trend of people's morale.
- (28) Osaka:  
    (a) Special interview.  
    \*(b) Background reports (part Japanese).  
    \*(c) Trend of people's morale (part Japanese).
- (29) Sakai:  
    (a) Special interviews.  
    \*(b) Background (part Japanese).  
    \*(c) Trend of people's morale (part Japanese).  
    \*(d) Report on rationing laws (part Japanese).
- (30) Sambu Gun:  
    \*(a) Special interviews.  
    \*(b) Background reports (part Japanese).  
    \*(c) Thumbnail sketch of Shirasato (part Japanese).  
    \*(d) List of families showing individuals from which sample was selected.
- (31) Sendai:  
    \*(a) Special interviews (part Japanese).  
    \*(b) Maps.  
    \*(c) Background reports (part Japanese).  
    \*(d) Trend of morale during war (part Japanese).  
    \*(e) Medical records and report (part Japanese).
- (32) Shibahara Mura:  
    (a) Special interviews.  
    \*(b) Background reports and data (part Japanese).
- [USB-13 Roll No. 128] -----
- (33) Shimonoseki:  
    \*(a) Special interviews (part Japanese).  
    \*(b) Background reports (part Japanese).  
    (c) Changes in morale trends.  
    \*(d) Data on Shimonoseki shipbuilding yards (part Japanese).

(34) Shitsuki Gun: [後月郡 (岡山県) ]

- \*(a) Background report with supporting materials (part Japanese).
- (b) Changes in morale trend.

(35) Taira:

- (a) Special interviews.
- \*(b) Background report with supporting documents (part Japanese).
- \*(c) Map.
- \*(d) Changes in trend of morale (part Japanese).
- \*(e) Original medical records.

(36) Tokyo:

(a) Special interviews of various classes:

1. Radio workers.
2. Newspaper workers.
3. Industrialists.
4. Professional people.
- \*5. Education Ministry (part Japanese).
6. Labor group leaders.
7. Welfare workers.

(b) Board of information:

- \*1. Special interviews (part Japanese).
- \*2. Organization chart with list of officials (part Japanese).
3. Explanation of board's duties.
- \*4. Effects of bombings on public opinion and resulting policies undertaken (part Japanese).
5. Office of Strategic Services reports on public information in Japan.

(c) Special interviews pertaining to police agencies:

1. Tonari-Gumi.
- \*2. Civil police (part Japanese).

----- [USB-13 Roll No. 129] -----

(d) Imperial Rule Assistance Association:

1. Special interview.
2. Report covering Imperial Rule Assistance Association.

(e) Military police:

- \*1. Special interviews (part Japanese).
- \*2. Organization chart with supporting information (part Japanese).
3. Detailed report on Kempeitai.

(f) Special interviews:

1. Special interviews on various subjects.
2. Special interviews on various subjects.
3. Special interviews on various subjects.
4. Special interviews on various subjects.
5. Special interviews on various subjects.
- \*6. Special interviews on various subjects with supporting Japanese documents.

(g) Background material:

1. Special interviews pertaining to background report.
2. Information on Japanese labor structure.
3. Food situation in Japan.
4. Brief report on Kempei Tai with organization chart and list of officials.
5. Outline of evacuation procedures.
- \*6. Bomb-damage data (part Japanese).
7. Outline of air-defense measures.
- \*8. Blueprint and labor statistics on Nakajima Aircraft Company (part Japanese).
- \*9. Medical records and reports (Japanese).
10. Changes in trend of morale.
- \*11. Background reports with supporting Japanese documents.

(h) Suburbs:

1. Special interview.
2. Bomb damage data.
- \*3. Reports from various outlying districts on changes in trend of morale (part Japanese).
- \*4. Map showing suburbs.

(i) Religion:

1. Special interviews.
2. Summary of directives issued to churches.
3. Handbook on the life of Saint Shinran.
4. Handbook on the influence of Buddhism on Japanese national ideals.
5. Handbook on the Shin sect.
6. Handbook on Buddhism.

7. Pamphlet on church directives.
- (j) Short-wave news bulletins:
  1. Recording for 10 May 1945.
  2. Recording for 17 July 1945.
  3. Recording for 18 July 1945.
  4. Recording for 19 July 1945.
  5. Recording for 19 August 1945.

----- [USB-13 Roll No. 131] -----

- (37) Toyama:
  - (a) Special interviews.
  - \* (b) Background reports with supplemental data.
  - (c) Trend of morale in general.
- (38) Tsuno Gun:
  - (a) Special interviews.
  - (b) General description.
  - \* (c) Background reports with supplemental data.
- (39) Utsunomiya:
  - (a) Special interviews.
  - \* (b) Background reports with supplemental Japanese data.
  - (c) Trend of morale in general.
- (41) Wakayama:
  - (a) Special interviews.
  - \* (b) Background reports with supplemental Japanese data.
  - (c) Trend of morale in general.
- (41) Yamagata:
  - \* (a) Special interviews (part Japanese).
  - \* (b) Background report with supplemental Japanese data.
- (42) Yatsushiro:
  - (a) Special interviews.
  - \* (b) Background reports with supplemental Japanese data.
  - (c) Report by chief of police.
- (43) Yokohama:
  - \* (a) Background report with supplemental Japanese data.
  - \* (b) Trend of morale in general (part Japanese).
  - (c) Special interviews.
  - (d) Organization of Tonari-Gumi.

- \* (e) Medical statistics (part Japanese).
  - \* (f) Figures on rationing (part Japanese).
  - (g) Labor statistics.
  - \* (h) Map (Japanese).
  - \* (i) List of city officials (part Japanese).
- (44) Yokosuka:
- (a) Special interview.
  - \* (b) Background report with supplemental Japanese data.
  - (c) Trend of morale in general.
  - (d) Daily log for morale studies.
  - \* (e) Labor statistics for the Uraga Dock Company, Ltd. (part Japanese).

----- [USB-13 Roll No. 132] -----

*g.* Newspapers, by city (consisting of seven envelopes):

- (1) Nligata.
- (2) Gifu.

----- [USB-13 Roll No. 132A] -----

- (3) Chiisagata.
- (4) Sendai.

----- [USB-13 Roll No. 132B] -----

- (5) Kobe.
- (6) Fukuoka.

----- [USB-13 Roll No. 133] -----

- (7) Akita.

*h.* General data pertaining to morale conditions in Japan:

- (1) The effects of the atomic bombings on Japanese morale.
- (2) Background data.
- (3) Historical facts.
  - (a) Comparison of American-Japanese military strength.
- (4) Asiatic Digest:
  - (a) Selected items from press and radio.
- (5) Booklets published by Office of Strategic Services:
  - (a) Names of Japanese areas.
  - (b) Public safety in Japan.
- (6) Reports by Office of War Information:
  - (a) Weekly summaries covering items of interest.
  - (b) Japanese home morale under bombing.

(c) Effects of air attack on Japanese military personnel.

----- [USB-13 Roll No. 134] -----

(d) Reports 16-25.

(e) Reports I-V.

(f) Special reports.

(g) Semimonthly reports.

(7) Outline of the Japanese government and its leaders.

(8) Rank orders:

(a) Drafts and copies of rank orders.

(9) Rank orders correlated:

(a) Drafts and copies of correlated rank orders.

----- [USB-13 Roll Nos. 134-135] -----

(10) Bureau of Agriculture Economics tabulations (two envelopes).

----- [USB-13 Roll No. 135] -----

(11) Calculation tables.

(a) Columns 1 through 9.

(b) Columns 10 through 19.

(c) Columns 20 through 29.

(d) Columns 30 through 39.

(e) Columns 40 through 43.

(f) Columns 44 through 49.

(g) Columns 50 through 59.

(h) Columns 60 through 79.

(12) Bombing strategy.

(13) Operation of the Seventh Air Force.

(14) Operation of the Thirteenth Air Force.

(15) Psychological warfare:

(a) Report by A-2 section of Twentieth Air Force.

(b) Recapitulation of leaflet production.

(c) Correspondence pertaining to forwarding of propaganda material.

(16) Civil police:

(a) Relations with military police.

(b) Peace preservation section.

(c) Miscellaneous data, notes, and work sheets.

(17) Military police:

(a) General report.

- (b) Questionnaire.
- (18) Tonari-Gumi:
  - \*(a) Handbook dealing with the regular meetings of the neighborhood association (part Japanese).
  - \*(b) Handbook on the Tonari-Gumi (part Japanese).
  - (c) Special interviews with members of the Tonari-Gumi.
  - (d) Reports on different associations.
  - (e) Tonari-Gumi organization and functions in Yokohama.
  - (f) Women's organizations.
- (19) Air-raid protection system of Japan ;
  - (a) Report.

----- [USB-13 Roll No. 136] -----

- (20) Censorship:
  - (a) Summary of censorship information.
  - (b) History of Japanese Army Air Service unit.
  - (c) Abolition of certain political parties, associations, societies, and other organizations.
  - (d) Japanese reactions and attitudes as reflected by information gathered through censorship.
  - (e) Special report on Tokyo Asahi press.
  - (f) Reports published by Civil Censorship detachment.
  - (g) Survey of censorship information.
  - (h) Summary of censorship information.
- (21) Propaganda.
  - (a) Report dealing with propaganda and counterpropaganda in Japan.
  - (b) United States propaganda leaflets.
  - (c) Text of leaflets dropped 27 July 1945.
  - (d) Miscellaneous data, notes, drafts, and work-sheets.
  - (e) Leaflets dropped and target areas.
- (22) Digest of known and probable reactions to bombing of Japan.
- (23) Japanese morale under bombing:
  - (a) Report on morale under bombings.
  - (b) Bombing data.
- (24) Public opinion in the Japanese war cabinets.
- (25) Japanese behavior patterns:
  - (a) Work copy of report.



- (26) Decline in Japanese standard of living.
- (27) Education:
  - (a) General report on education.
  - (b) Interviews of school officials.
  - (c) Miscellaneous notes and work sheets.
- (28) Religion and morale:
  - (a) Report on religion prior to the war.
  - (b) Miscellaneous data, notes, and work sheets.
- (29) Analysis plans:
  - (a) Miscellaneous data, notes, and work sheets.
- (30) Special pretest questions:
  - (a) Notes and work sheets.
- (31) Motion-picture project:
  - (a) Morale, Japanese Empire.
- (32) Over-all coding:
  - (a) Rating on degree of resistance to behavioral demands on respondent.
  - (b) Post mortem on over-all codes.

----- [USB-13 Roll No. 137] -----

- (33) Coding reliability test.
- (34) Machine tabulation operation:
  - (a) Miscellaneous data.
- (35) Motor vehicles:
  - (a) The Japanese motor-vehicle industry.
- (36) Submarines:
  - (a) Participation of submarine force.
- (37) Development of the morale index.
- (38) Indices:
  - (a) Index to confidence ,in victory.
  - (b) Index to life space.
  - (c) Index to coding instructions on morale.
  - (d) Miscellaneous notes and work sheets.
- (39) Documents and translations:
  - (a) The swift changes in the war situation and the new trends in morale.
  - \* (b) The trend of public thought after the loss of Okinawa (part Japanese).
  - (c) The recent labor situation, August 1945.
  - (d) The nature of recent rumors.

- (e) People's reaction to disposition of military surplus materials.
  - \* (f) Recent changes in morale.
  - \* (g) How people's morale changed as air raids were intensified.
  - (h) Matters relative to the speech and conduct of Saburo Kurusu.
  - \* (i) Trend of morale under the bombings and countermeasures taken.
    - (j) Effect of bombings on public opinion.
    - (k) Control of morale, rumors, and false reports.
    - (l) The recent trend of thought of the conscripted factory workers.
  - (m) The outline of public opinion guidance policies for the decisive battles.
  - (n) Recent trend of thought among intelligentsia and leaders.
  - (o) The matters relating to the control and guidance of opinions following the air attacks.
- (40) Interviews—procedure and forms:
- (a) Morale Division code with instructions as to procedure.
  - (b) Question-by-question objectives
  - (c) Neutral probes.
  - (d) Technique
  - (e) Schedule draft.
  - (f) Pretest post mortem.
  - (g) Special reports.
  - (h) Suggestions for sound recording of interviews.
  - (i) Interview sound-recording control schedule.
  - (j) Factual data.
  - (k) Thumb-nail sketch.
  - \* (l) Background report (with form in Japanese).
  - (m) Evacuation schedule.
  - (n) Japanese and English year equivalents.
  - \* (o) Informal test.
  - (p) Respondent's pass to interview.
  - (q) Manual for contacts with respondents.
  - (r) Morale Division code.
  - (s) Morale Division cross-tab card.
- (41) Drafts of interviews.

----- [USB-13 Roll Nos. 137-138] -----

- (42) Index cards for interrogations:
- (a) General morale conditions.

- (b) Typical answers.
- (c) Colorful answers.
- (d) Unusual answers.
- (e) Feelings at start of war.
- (f) Opinions on propaganda.
- (g) Fighting spirit.
- (h) Opinions as to leaders.
- (i) Attitudes relative to America.
- (j) American propaganda leaflets.
- (k) Japanese plans and peace moves.
- (l) Surrender response.

----- [USB-13 Roll No. 138] -----

(43) Prints and negatives:

- (a) Morale pictures photographed at Sendai.
- (b) Morale pictures photographed at Osaka.
- (c) Morale pictures photographed at Toyonaka.
- (d) Morale pictures photographed at Wakayama.
- (e) Morale pictures photographed at Hiroshima.
- (f) Morale pictures photographed at Hera.
- (g) Morale pictures photographed at Shimonoseki.
- (h) Morale pictures photographed at Yasuoka.
- (i) Morale pictures photographed at Mikkaichi.
- (j) Morale pictures photographed at Tokyo.
- (k) Morale pictures photographed at Yokohama.
- (l) Morale pictures photographed at Swarthmore College.
- (m) Unidentified photographs and negatives.

----- [USB-13 Roll Nos. 138-140] -----

(44) Radio reports on the Far East (consisting of five envelopes).

----- [USB-13 Roll No. 140] -----

\* (45) Population data (consisting of three envelopes):

----- [USB-13 Roll No. 141] -----

- \* (a) Tables comparing the old and new totals of registrants, by areas and industries, in the national registration.
- \* (b) Blank forms—movement certificate, ration certificate, etc.
- \* (c) Family registration and population register classified by city.
- \* (d) Rice, soybean, and potato ration-card registration, 1944 and 1945.

- \* (e) Population by ken.
- \* (f) Number of evacuees from each city.
- \* (g) Miscellaneous notes and work sheets pertaining to population (part Japanese).

----- [USB-13 Roll Nos. 141-142] -----

\* (46) Population data and statistics (part Japanese) (consisting of three envelopes).

----- [USB-13 Roll No. 142] -----

- (47) Morale trends among landowners and tenant.
- (48) Maps and air-raid damage.
  - (a) Investigation report of Shin Ishida, executive head of the Agricultural Association of Iwate Prefecture.
  - (b) Disputes between landowners and their tenant farmers.
  - (c) Disputes between landowners and their tenant farmers.
  - (d) En bloc resignation by the Agricultural Affairs Enforcement Association heads.
  - (e) History of student mobilization.
  - (f) Causes and conditions of tenant farm disputes.
- (49) Thought trends of the public:
  - (a) Announcement of the disposition of war criminals and attitude toward suicide of those involved.
  - (b) Telegram from governor of Toyama Prefecture to Home Minister.
  - (c) Report on the Third Morale Investigation Committee.
  - (d) Fragmentary translation.
  - (e) The reestablishment of the former Hitonomichi (the way of human beings) mission.
  - (f) Examples of antiwar activities.
  - (g) Every-10-day reports on thoughts.

----- [USB-13 Roll No. 143] -----

- \* (h) Report on investigation made of administrative organization in July 1945 (part Japanese).
  - (i) Trends of the people's thought as seen from censorship of communications
  - (j) Every-10-day reports on thoughts.
  - (k) Movements of parties concerned in the illegal incidents in September 1942.
  - (l) Register of persons requiring special vigilance.
  - (m) Ten-day-period report on public thought No. 7.
  - (n) Investigation reports on local conditions, 5 June 1944.

- (o) New leaders survey of disposition of the situation, 16 January 1942.
- (p) Reform movements explained by the peace section chief at meeting of prefectural police chiefs, 19 April 1943.
- (q) Lese-majeste, antiwar, antimilitaristic, and disorderly behavior.
- (r) Summary of deciding in public trial No. 33 of Hiranuma shooting incident.
- (s) Accounts of daily events.
- (t) Monthly special police report of November 1944.
- (u) Monthly special police report of October 1944.
- (v) Nationalistic Agriculture First Movement
- (w) Details of incidents of (distributing antiwar propaganda printed matter.
- (x) Monthly special report of January 1944.
- (y) Survey of indictments on violations of the Peace Preservation Law.
- (z) Movement diary (incomplete).
- (aa) Monthly special police report of August 1944 (incomplete).
- (bb) Investigation of ideological organizations handled by the special higher police.
- (cc) Red activities Nittetsu (Hokkaido).
- (dd) Monthly special police report of January 1944.
- (ee) Relationship between laborer and farmer.
- (50) Morale conditions affecting public peace:
  - (a) General conditions in Yamanashi Prefecture.
  - (b) Proposal for decrease in rent (Hyogo Prefecture).
  - (c) Telegram sent to the Director of Police Bureau from governor of Tottori Prefecture, 23 August 1945.
  - (d) Stability in people's living as the result of the termination of war (Tochigi Prefecture).
  - (e) Special trends of the National School faculty members relative to the food shortage.
  - (f) Transitions in the Great East Asia War.
  - (g) Current state of the public peace.
  - (h) Bloc meeting of higher police section chiefs.
  - (i) Recent state of affairs from January to March 1944.
  - (j) Reports by chief of Economic Peace Preservation section of Osaka Fu.
  - (k) Prospectus of war leaders and of diplomatic activities.
  - (l) Conditions of rural communities and the movements of Korean people.
  - (m) Arrest of sympathizers of Teru Takakura.

- (n) Subversion and opposition in wartime Japan.
- (51) Morale condition among factory workers:
  - (a) Labor situation resulting from the sudden development in the war situation in August 1945
  - (b) Trend of factory workers following the issuance of the Imperial Rescript of 3 September 1945.
  - (c) Trend of student labor.
  - (d) Activities of persons in charge.
  - (e) Outline on establishment of a wartime student mobilization organization and trend of thought of the conscripted factory workers.
  - (f) Statistics on labor disputes.
- (52) Rumor control:
  - (a) Control of seditious documents and rumors.
  - (b) Occurrences of lèse majesté affairs and outbreak of disrespectful rumors.
  - (c) Number of rumor-control cases.
  - (d) Recent trend of rumors.
  - (e) Synopsis of rumors relative to food short-ages.
  - (f) Principal rumors concerning criticism of police officials on matters evolving around food difficulties.
  - (g) Matters concerning control of unfounded rumors.
  - (h) False rumors spread by persons in authority and their control.
- (53) Opposition to thought control and resulting police action.
  - (a) Number of police cases concerning rumors during August 1945
  - (b) Table of rumor occurrence and arrests thereof in June 1945.
  - (c) Arrests of persons who are disrespectful and those who advocate peace by defeat.
  - \* (d) Survey of violators of the Economic Control Law by public prosecutor of Kyoto prefectural court (part Japanese).
  - (e) Organization of Peace Preservation section, Police Bureau of Home Ministry.
- (54) Morale trends immediately following the end of war:
  - (a) Trend of people's thought 1 month after the end of war.
  - (b) General view of the Tokai and Hokuriku district people after signing of the terms of surrender.
  - (c) Antiwar opinions.
  - (d) Trends in public sentiment regarding the Allied occupation.

- (e) Trend in public opinion after the war.
  - (f) Matters relative to the trend of the general populace.
  - (g) Feelings of antimilitary and antiofficialdom on occasion of the assault on the police substation.
  - (h) Trend of people's thought following the end of the war.
  - (i) General trend after the end of the war.
  - (j) Trend of the people's thought revolving about the sudden turn of current events.
  - (k) Voice of the town.
  - (l) Affairs relative to the trend toward impropriety regarding imperial decisions.
  - (m) Matters relating to the peculiar situational speech and behavior by editorial staff of Domei News Agency.
  - (n) Matter relative to trend of people's thought, (Kyoto).
- (55) Control of the Communist element:
- (a) Violation of the Peace Preservation Law
  - (b) Arrest of sympathizers of Teru Takakura.
  - (c) Arrest of suspects in the incident in the Capital Rapid Transit control board.
  - (d) Arrest of Communists under suspicion of radical activities.
  - (e) Investigation of Mitsuo Hasegawa (factory worker).
  - (f) Monthly special police reports dated 2 February 1945.
  - (g) Investigation of Tokuzo Takizawa.
  - (h) Report of secret meeting of police department chiefs.
  - (i) Report concerning Communist movement.
  - (j) Investigation of Leftwing incident in Kanagawa Prefecture.
  - (k) Report of the Soviet Affairs Research Association incident.
  - (l) Report of investigation of Yoshio Takahashi.
  - (m) Chart showing organization of Communist group.
  - (n) Report on situation with regard to the communistic campaign.
  - (o) Report on the Communist movement.
  - (p) Investigations of disrespectful, immoderate, antiwar and antimilitary incidents.
  - (q) Report of the Suihei movement.
  - (r) Report on Tokyo electric group (leftist).
  - (s) Higher police monthly report of March 1943.

- (t) General outline on various movements (Communist, anarchist, etc.).
- (u) General outline on various movements (Communist, anarchist, etc.).
- (v) Report of arrests for violation of Peace Preservation Law.

----- [USB-13 Roll No. 144] -----

- (56) Control of the Korean movement:
  - (a) Report of trends caused by imported Korean laborers.
  - (b) Report of arrest and investigation of the Sokoku Iankai case. [祖国慰安会]
  - (c) Report of trends appearing in wage-earners circle.
  - (d) Report on control and supervision of Koreans.
  - (e) Report on control and arrest of Koreans in different areas.
  - (f) Arrests and investigation of Koreans for violation of peace regulations.
  - (g) Investigation and arrest of Korean students' racial groups at Osaka.
  - (h) Arrests and investigations of Koreans in nationalistic groups in Tokyo metropolitan area.
  - (i) Report on causes and conditions of tenant farm disputes.
  - (j) Report on activities of Koreans.
- (57) Control of religious groups:
  - (a) Investigation of the Ryujin society incident.
  - (b) Arrests of former believers of Omoto-Kyo.
  - (c) Arrest of the founder of the Dai Nippon No Oshiye sect of the Kodo Shukyo.
  - (d) Monthly special police report on religious movements.
  - (e) Summary of facts of crime of Matsu Kagawa.
  - (f) Declarations made by Tsurunosuke Kaneko.
  - (g) Report on peculiar trends of Christian churches in Gifu Prefecture. ,
  - (h) Report on recent t-trends of Christians that require vigilance.
  - (i) Report on denunciation of Christian school workers by Saburo Kamioka.
  - (j) Report on prosecution of Franz Xavier Savelborn.
  - (k) Judgment on Renzo Onomura.
  - (k) Report on sentencing of former Lieutenant.
  - (l) Hiroshi Yamagishi and others.
  - (m) Report of arrests of Japanese Catholic priests.
  - (n) Report of crimes of several priest.
  - (o) Report on various cases involving church officials.
  - (p) Report on sentencing for violation of Peace Preservation Law.
  - (q) Investigation regarding violation of Peace Preservation Law by Ambitabha



confraternity.

- (r) Report on investigation of Shintetsu Amako, chief priest of the Hongwan sect.
  - (s) Report on religious movements.
  - (t) Report on the opinions of Christians other than Catholic and outsiders.
  - (u) Report on religious movements.
- (58) Control of farm groups:
- (a) Letter on people's reaction to disposition of military surplus.
  - (b) Report of activities of persons formerly connected with the farmers' movement.
  - (c) Investigation report on Shozo Otani, first chief of the east Asia agricultural research laboratory.
  - (d) Investigation report on Takeo Sakurai.
  - (e) Investigation report on Kolkhoz Movement in factories and on farms.
  - (f) Work sheets.
  - (g) Blank used in joining New Japan party.
  - (h) Donation blank used in New Japan party.
- (59) Impression of the Potsdam Declaration.
- (60) Outline of public opinion guidance policy:
- \* (a) Outline of public opinion guidance policies for the decisive battles.
  - \* (b) Policies for public opinion guidance in the present phase of the Greater East Asia War.
  - (c) Recent trend of thought among the intelligentsia and leaders.
  - (d) Matters concerning the prevention of spy activities during the air raids.
  - (e) Matters concerning maintenance of the public peace and emergency arrangements.
  - (f) Instructions on outdoor gatherings conducted to stimulate national interest.
  - (g) Instructions on outdoor gatherings conducted to stimulate national interest.
  - (h) Matters concerning the controlling of an assembly for election while the Air Defense Law.
  - (i) Matters relating to the control and guidance of opinion following air attacks.
  - (j) Matters concerning the control of an assembly for election while the Air Defense Law is enforced.

- (k) Matters concerning the measures for air defense at places of entertainment.
  - (l) Matters relating to the training of the special higher police.
  - (m) Outline of peace preservation measures.
  - (n) Guidance and control of various types of activities.
  - (o) Restoration review control policy.
  - (p) Summary of emergency arrangements for maintenance of public order.
  - (q) Matters relative to the thorough control of public opinion.
  - (r) Matters relative to the authorization of the formation of organization.
  - (s) Preliminary meeting of chiefs of prefectural police on 19 April 1943.
  - (t) Information regarding the Tonari-Gumi (neighborhood association).
  - (u) Information regarding the Imperial Rule Assistance Association.
  - \* (v) Report on structure of the board of information.
- (61) Thought control and resulting controversial issue:
- (a) Subsequent report on general political situation.
  - (b) Trend of the general public toward the returned soldiers.
  - (c) Sentiments and attitudes of the various classes toward the military.
  - (d) Postwar activities and speeches of the people.
  - (e) Behavior of the members of the Reimei club.
  - (f) Dissolution of political organizations.
  - (g) Report on joint declaration of the Big Three and the people's thought reaction.
  - (h) Trend regarding the government and the military.
  - (i) Trend in various quarters relative to the Emperor's sovereign power and other problems.

----- [USB-13 Roll No. 145] -----

- (j) Communications received from persons connected with New Japan party.
- (k) Swift changes in the war situation and new trends in morale.
- (l) Speeches and activities for antiwar movements.
- (m) Dissolution of the Hokkaido Society of IRA, Young Men's Corps.
- (n) Outline of gripes and complaints.
- (o) Lese-majeste, disorderly, antiwar and anti-militaristic affairs.
- (p) Incomplete translation.
- (q) Trend of the Imperial Rule Assistance Political Society.
- (r) Trend of public thought after the loss of Okinawa.
- (s) Observations on the trend in the Diet.

- (t) Speech and conduct of the people in political circles.
- (u) Activities of Diet members upon their return from the Imperial Diet.
- (v) Situational talk by Shinya Uchida.
- (w) Activities of Diet members upon their return from the Imperial Diet.
- (x) Speech on current topics by Diet member Chu Funada.
- (y) Speech on new political party.
- (z) Developments in regard to organization of a new political party.
- (aa) Speech and conduct of Diet members regarding the present situation.
- (bb) Speech and conduct of Naomichi Sakamoto, former director of the Manchurian Railroad Company.
- (cc) Opinions of Diet members returned from special Diet session.
- (dd) Opinions of Representative Seion Kawamata.
- (ee) Special talk regarding the war situation by Seion Kawamata.
- (62) Printed microfilm—various types of intelligence and trends of public opinion.
- (63) Printed microfilm—regulations of higher police.
- (64) Printed microfilm—illegal activities of Allied military personnel in Japan.  
----- [USB-13 Roll Nos. 145-146]-----
- (65) Printed microfilm—list of extreme rightists to be watched (consisting of three envelopes).  
----- [USB-13 Roll No. 146]-----
- (66) Printed microfilm—various reports on illegal organizations and police matters (consisting of two envelopes).
- (67) Printed microfilm—members of the Nationalist Movement (consisting of two envelopes).
- (68) Printed microfilm—conditions of political situation after VJ-Day
- (69) Printed microfilm—lectures on the Peace Police Law.  
----- [USB-13 Roll Nos. 146-147]-----
- (70) Printed microfilm—monthly special police reports 1943-45) (consisting of 12 envelopes).  
----- [USB-13 Roll No. 147]-----
- (71) Printed microfilm—reorganization of the Cabinet.
- (72) Printed microfilm—the object of the Great East Asiatic Society.
- (73) Printed microfilm—questions and answers pertaining to antiwar publications.
- (74) Printed microfilm—outline of the illegal revolutionary movement (consisting of three envelopes).  
----- [USB-13 Roll No. 148]-----

- (75) Printed microfilm—Nationalist organizations (consisting of four envelopes).
- (76) Printed microfilm—various reports relative to illegal activities (consisting of four envelopes).

----- [USB-13 Roll Nos. 148, 148A, 149] -----

- (77) Printed microfilm—report of research conference relative to higher police duties (consisting of 10 envelopes).

----- [USB-13 Roll No. 149]-----

- (78) Printed microfilm—anti-Japanese movements (consisting of three envelopes):

- (a) Current events and police proceedings of 1943.
- (b) Outline of more important anti-Japanese movements.
- (c) The agrarian situation.
- (d) Communist activities.
- (e) Labor and economic conditions.
- (f) Religious activities.
- (g) Korean activities.
- \* (h) Supporting document relative to report on public opinion.
- \* (i) Supporting document relative to air-defense regulations (Japanese).
- \* (j) Supporting document relative to black-out regulations (Japanese).

- (79) Printed microfilm—report on the Saitama raiding unit incident (consisting of three envelopes).

----- [USB-13 Roll Nos. 149-150]-----

- (80) Printed microfilm—miscellaneous police reports (consisting of two envelopes).

----- [USB-13 Roll No. 150]-----

- (81) General reading matter for the public:

- \* (a) 1939 publications—May, June, July, August, September, October, November issues.
- \* (b) 1940 publications—January, April, May, July, August, September, October, November, and December issues.
- \* (c) 1941 publications—February, March, April, May, June, July, September, October, November, and December issues.
- \* (d) 1942 publications—monthly.
- \* (e) 1943 publications—monthly.
- \* (f) 1944 publications—monthly.
- \* (g) 1945 publications—January, February, March; and May only.

- (82) Japanese magazines.

- \* (a) Children's Club—October 1945 issue.

- \* (b) Children's Club—December 1944 issue.
- \* (c) Kodan Club—March 1945 issue.
- \* (d) Kodan Club—October 1945 issue.
- \* (e) Kodan Magazine—October 1945 issue.
- \* (f) Ladies' Magazine—January 1945 issue.
- \* (g) Ladies' Magazine—October 1945 issue.
- \* (h) Fuji—November 1943 issue.
- \* (i) Fuji—October 1945 issue.
- \* (j) Ladies' Journal of Housekeeping—November 1945 and February 1944 issues.
- \* (k) Shufunotomo—February 1944 issue.
- \* (l) Boys' Club—June, 1944 and October 1945 issues.
- \* (m) Modern Times—April 1945 and November 1945 issues.
- \* (n) Gendai—April 1945 issue.
- \* (o) Gendai—November 1945 issue.

----- [USB-13 Roll Nos. 151-206]-----

(83) Microfilm—one box.

----- [USB-13 Roll Nos. 207-207A] -----

15. The Aircraft Industry (final report and original draft).

*a.* Data submitted by the Japanese:

----- [USB-13 Roll No. 207A] -----

- \* (1) Government controls.
- \* (2) Government directives.

----- [USB-13 Roll Nos. 207A-208] -----

- \* (3) Production figures on engines, propellers, and aircraft.

----- [USB-13 Roll No. 208]-----

- \* (4) Technical and experimental data.
- \* (5) Earthquake effects (maps).

*b.* Small plants on which no separate reports were written:

- \* (1) Shinagawa Electrical Company (production charts).
- (2) Kayabe Industrial Company, Ltd., reply to USSBS questionnaire.
- (3) Kokusan Electric Machinery Company, Ltd., reply to USSBS questionnaire.
- (4) Greater Japan Spinning Company report submitted to USSBS.
- (5) Matsushita Aeroplane Corporation report sent to USSBS.
- (6) Nippon Kentetsu Kogyo Manufacturing Company, Ltd., report to USSBS.

*c.* Data on Japanese aircraft shipped to United States for study purposes.

- d.* Photostats of tables and appendices used in report.
- e.* Map showing location of plants manufacturing engines, propellers, and aircraft.
- f.* Intelligence data pertaining to Japanese aircraft industry.

----- [USB-13 Roll No. 208A] -----

- g.* Interrogations.
- h.* Appendices to interrogations, memoranda, interviews, questionnaires.

----- [USB-13 Roll No. 209] -----

- i.* Key targets in the Japanese aircraft industry and bomb tonnage dropped.
- j.* Preliminary report on the Japanese aircraft industry.
- k.* Complete set of drawings used in report.
- l.* Work sheets (seven envelopes).

----- [USB-13 Roll Nos. 210-213] -----

- m.* Photographs, negatives and films.

----- [USB-13 Roll No. 213] -----

- n.* Publications and manuals in Japanese only.

- \* (1) Manual for operating Type 93, heavy bomber model No. 2 with drawings prepared by Army Air headquarters, May 1935.
- \* (2) Manual for operating Model DC-2, Nakajima "Douglas" passenger plane, published by Nakajima Aircraft Corporation, October 1935.
- \* (3) Manual for Operating Type 98, direct cooperation plane with drawings prepared by Army Air headquarters, August 1940.
- \* (4) Manual for operating Type 94, reconnaissance plane with drawings prepared by Army Air headquarters. May 1937 (revised).
- \* (5) Manual for operating Type 95 (Model 1B), training plane with drawings prepared by Army Air headquarters, November 1938.
- \* (6) Manual for operating Type 98, light bomber with drawings prepared by Army Air headquarters, September 1939.
- \* (7) Manual for operating Type 100, headquarters reconnaissance plane with drawings prepared by Army Air headquarters, July 1941.

----- [USB-13 Roll No. 214] -----

- \* (8) Manual for operating Type 99, Army reconnaissance and Type 99 Army assault plane with drawings prepared by Army Air headquarters, March 1941.
- \* (9) Manual for operating Type 97, headquarters, reconnaissance plane (Model No. 2) with drawings prepared by Army Air headquarters, March 1941.
- \* (10) Manual for operating Type 100, heavy bomber with drawings by Army Air headquarters, August 1941.

- \* (11) Manual for operating Type 97 (Model No. 2), heavy bomber with drawings prepared by Army Air headquarters, October 1941.
- [USB-13 Roll No. 215] -----
- \* (12) Manual for operating Type 1, fighter plane, with drawings prepared by Army Air headquarters, January 1942.
- \* (13) Manual for operating Type 99 (Models 1 and 2), twin-engined light bomber, published by Tokorozawa Army Air Maintenance school, October 1944.
- [USB-13 Roll No. 216] -----
- \* (14) Manual with drawings for Type 100, 1,450 hp. engine, October 1941.
- \* (15) Manual with charts for Type 98, 450 hp. engine, July 1939.
- \* (16) Manual with drawings for Type 99, 900 hp. engine (Models 1 and 2), May 1941.
- \* (17) Manual for Type "Hikari" (Model 1 and 2) engine, February 1936.
- \* (18) Manual for Type 2, 1,150 hp. engine, September 1944.
- \* (19) Elements of airplane engines, September 1944.
- \* (20) Periodic maintenance of airplane engines, October 1942.
- \* (21) Manual with drawings for Type 97, 650 hp. engine, May 1938.
- \* (22) Manual with drawings for Type 97, 850 hp. engine. May 1938.
- \* (23) Manual with drawings for Type 95, 800 hp. engine, revised January 1938.
- \* (24) Manual with drawings for Type 95, 150 hp. engine, December 1936.
- \* (25) Manual with drawings for Type 94, 550 hp. engine (Model 2) November 1938.
- [USB-13 Roll No. 216A] -----
- \* (26) Manual with drawings for Type "ju," 450 hp. engine (Models 1 and 2) August 1945
- \* (27) Manual for Kinsei engine, Model No. 51, prepared by Naval Air headquarters, December 1941.
- \* (28) Data on Kinsei engine, Model No. 51, with drawings prepared by Naval Air headquarters, December 1941.
- [USB-13 Roll No. 217] -----
- \* (29) Manual for Zuisai engine, Model No. 10, prepared by Naval Air headquarters, February 1941.
- \* (30) Data on Zuisai engine, Model No. 11, prepared by Naval Air headquarters, 1938.
- \* (31) Kotobuki engine, Model No. 2, modifications No. 1, No. 2, and No. 3, table of comparisons, November 1938-June 1940.
- \* (32) Manual for engine accessories, Part I, The Starter, prepared by the Naval Air headquarters, August 1942.

- \*(33) Manual for starter (induction and inertia) prepared by Naval Air headquarters, May 1936.
- \*(34) Airplane static eliminator manual prepared by Naval Air headquarters, June 1937
- \*(35) Report on results of research and experiments; research in Buna (research on rubber) for A/C, September 1942, Naval Air Technical Depot.
- \*(36) Packing and loading of A/C parts for transporting purposes December 1940, by Ministry of Army.
- \*(37) Oxygen inspirator for Type 1 (Model 3), fighter, April 1945, Army Air Inspector General.
- \*(38) Oxygen inspirator for Type 3, fighter, March 1940, by Army Air Inspector General.
- \*(39) Oxygen inspirator for Type 4, heavy bomber, March 1940, by Army Air Inspector General.
- \*(40) Oxygen inspirator for Type 100, headquarters reconnaissance plane (Mode 3 and 4) , by Army Air Inspector General (two copies).
- \*(41) Experiments on electrical accessories for A/C, September 1942, Navy Air Technical Depot.
- \*(42) Spring pin for direct drive generator, May 1943, by Navy Air Technical Depot, branch depot (two copies).
- \*(43) Rubber-insulated electric wire (double wire) December 1942, by Navy Air Technical Depot, branch depot.
- \*(44) Ohmmeter experiments, August 1943, by Navy Air Technical Depot, branch depot (two copies)
- \*(45) Experiments on filler for shock-proof mounting on instrument panel, May 1941, Navy Air Technical Depot, branch depot (three copies).
- \*(46) Experimental research on the effectiveness of ailerons and elevators, May 1937, by Aeronautical Research Institute, Tokyo Imperial University.
- \*(47) Vacuum pump for feeding lubricating oil, June 1942, by Naval Air headquarters.
- \*(48) Gauge vacuum pump, March 1936, Naval Air headquarters.

----- [USB-13 Roll No. 218] -----

16. Mitsubishi Heavy Industries. Ltd., Corporation Report No. I (Mitsubishi Jukogyo KK) (air frames and engines) (final report and original draft).
- a. Mitsubishi Heavy Industries, Ltd. (general data):
- (1) Organizational charts and history.



- (2) Production data and graph.
- (3) Subcontracting.
- (4) Spare parts shipped.
- (5) Employment data.
- (6) Sample reports sent to munitions ministry.
- (7) Air-raid damage and casualties.
- (8) Dispersal plan.
- \* (9) Technical data.
- (10) An outline of the Mitsubishi enterprises, 1942.
- (11) Work sheets (two envelopes).

----- [USB-13 Roll No. 219] -----

*b.* Mitsubishi Heavy Industries, Ltd. (Matsumoto No. 1 air-frame works):

- (1) History and organization.
- (2) Employment.
- (3) Production.
- (4) Air-raid effects and dispersal.
- (5) Specification and performance tables.
- (6) Work sheets.

*c.* Mitsubishi Heavy Industries, Ltd. (Kyoto No. 2 engine works):

- (1) Reply to questionnaire covering data on re search, experimental engines, production, employment, stocks of raw materials, inventory of fuel, organization, dispersal, and location.
- (2) Chart showing production progress of prototype aero-engines (2 copies).
- (3) Work sheets.

*d.* Mitsubishi Heavy Industries, Ltd. (Oe Nagoya No. 3 air-frame works):

- (1) Organization and history.
- (2) Employment.
- (3) Production.
- (4) Air attack effects.
- (5) Lay-outs, flow charts, building plans, and dispersal maps.
- (6) Dispersal arrangement
- (7) Suppliers of materials.
- (8) Work sheets.
- (9) Photographs.

*e.* Mitsubishi Heavy Industries, Ltd. (Nagoya No. 4 engine works):

- (1) History and organization.

- (2) Employment.
- (3) Production.
- \* (4) Raw materials and suppliers (part Japanese).

----- [USB-13 Roll No. 219A] -----

- (5) Bombing data.
- (6) Dispersal.
- (7) Work sheets.

*f.* Mitsubishi Heavy Industries, Ltd. (Oe Nagoya No. 5 air-frame works):

- (1) History, organization, development, employment data, products, floor area, equipment, material inventory, list of plants, governmental supervisory chart.
- (2) Consumption of fuel and electric power, receipt of raw materials, list of suppliers.
- (3) Production data; capacity, ordered and actual (with graphs).
- (4) Employment data.
- (5) Air attack effects, property damage, machine-tool schedule, damage result of earthquake.
- (6) Dispersal planned and achieved.
- (7) Lay-outs, building plans, and maps (including dispersals).
- (8) Work sheets.
- (9) Photographs.

----- [USB-13 Roll No. 220] -----

*g.* Mitsubishi Heavy Industries, Ltd. (Shizuoka No. 6 engine works):

- (1) Reply to USSBS questionnaire covering production, employment, supplies and suppliers, growth, expansion, relationship to government, organizational charts by department, air-raid data, dispersal.
- (2) Sample forms sent to munitions department.
- (3) Plant lay-out, bomb plot, dispersal map.

*h.* Mitsubishi Heavy Industries, Ltd. (Mizushima No. 7 air-frame works):

- (1) Organizational chart by departments.
- (2) Production data.
- (3) Employment.
- (4) Raw materials and components.
- (5) Air attacks and damage.
- (6) Dispersal (with maps).
- (7) Plant lay-out.
- (8) Location map.

- (9) Work sheets.
- i.* Mitsubishi Heavy Industries, Ltd. (Kyoto No. 8 engine works):
  - (1) Report submitted by plant manager on the conversion, general outline of plant, history, list of materials, machines, sample reports sent to munitions department and government supervisory agents.
  - (2) Raw materials and equipment.
  - (3) Employment data.
  - (4) Production.
  - (5) Air attack and dispersal.
  - (6) Dispersal maps.
  - (7) Test engines, specifications and performance.
  - (8) Photographs.
  - (9) Work sheets.
- j.* Mitsubishi Heavy Industries, Ltd. (Kumamoto No. 9 air-frame works):
  - (1) History and organization, governmental supervisory agents.
  - (2) Production and general information.
  - (3) Employment.
  - (4) Attack data (with bomb plot).
  - (5) Data on raw materials and component parts, stock inventory. electric power consumption, receipts, consumption, and stock of fuel and coal.
  - (6) Subcontracting data.
  - (7) Dispersal (with maps).
  - (8) Work sheets.
- k.* Mitsubishi Heavy Industries, Ltd. (Nagoya No. 10 engine works):
  - (1) History and organization.
  - (2) Production figures.
  - (3) List of machined tools and equipment (two copies).
  - (4) Maximum possible production.
  - (5) Employment figures.
  - (6) Raw materials inventories.
  - (7) Semifinished parts inventory.
  - (8) Dispersal plans (with map).
  - (9) Air attack data.
  - (10) Location map.
  - (11) Photographs.
  - (12) Work sheets.

- l.* Mitsubishi Heavy Industries, Ltd. (Daimon No. 11 airframe works):
- (1) Report of the actual situation of the No. 11 airframe works.
  - (2) Departmental organization chart and government supervisors.
  - (3) Duplicate information found under (1) listing.
  - (4) Employment figures and graphs.
  - (5) Main components supplied by subcontractors.
  - (6) Air attack data.
  - (7) Production data.
  - (8) Dispersal-planned and achieve with maps.
  - (9) Lay-out of press machinery, Daimon plant.
  - (10) Photographs.
  - (11) Work sheets.
- m.* Mitsubishi Heavy Industries, Ltd. (Nagoya No. 12 engine works):
- (1) Data supplied by plant officials in answer to USSBS questionnaire.
  - (2) Additional data in answer to questionnaire.
  - (3) Location maps,
  - (4) Dispersal map.
  - (5) Work sheets.
- n.* Mitsubishi Heavy Industries, Ltd. (Kyoto No. 14 engine works):
- (1) Information submitted by plant officials in answer to USSBS questionnaire.
  - (2) Papers and notes used in compiling plant report.
  - (3) Hard fuel supplies received, consumed, and in stock.
  - (4) Work sheets.
- o.* Mitsubishi Heavy Industries, Ltd. (Ogaki No. 16 engine works):
- (1) Reports of visits to Mitsubishi component plants made by USSBS staff member, N. B. Tindale.
  - (2) Report made by plant officials in answer to USSBS questionnaire.
  - (3) Report made by plant officials in answer to USSBS questionnaire.
  - (4) Production graphs.
  - (5) Employment figures and graph.
  - (6) Products manufactured and in stock, and production loss due to air raid.
  - (7) Inventory of materials.
  - (8) Production loss due to dispersal; governmental supervisory and administrative charts.
  - (9) Sample reports sent to munitions department.

- (10) Lay-out of plants.
  - (11) Maps of Ogaki.
  - (12) North plant damage maps (2).
  - (13) Flow charts (north, south, and west plants).
  - (14) Work sheets.
- p.* Mitsubishi Heavy Industries. Ltd. (Fukui No. 18 engine works):
- (1) History; organization and description.
  - (2) Data pertaining to Fukui.
  - (3) Employment figures.
  - (4) Details of production capacity.
  - (5) Stock inventory of products and semifinished parts.
  - (6) Stock inventory of raw materials.
  - (7) Machine tools and equipment.
  - (8) Yard plan of Fujitsushin plant.
  - (9) Dispersal map at Shakutani and Sabae. [笏谷 (福井県足羽郡社村) ]
  - (10) Work sheets.
- q.* Mitsubishi Heavy Industries, Ltd. (Hiroshima No. 20 engine works):
- (1) Plant report compiled by officials in answer to USSBS questionnaire.
  - (2) Employment figures and graph.
  - (3) Production figures for machine tools by number and in yen.
  - (4) Supply of materials and components.
  - (5) Machine tool and machine schedules.
  - (6) Building plan.
  - (7) Dispersal—planned and achieved (with map).
  - (8) Chart showing governmental control.
  - (9) Sample reports sent to munitions department.
  - (10) Answer to questionnaire No. 2.
  - (11) Organization chart.
  - (12) Work sheets.
- r.* Mitsubishi Heavy Industries. Ltd. (Koromo No. 22 engine works):
- (1) Departmental chart of government supervisory agencies.
  - (2) Names of factory supervisors.
  - (3) Raw materials and component parts ordered and received; list of suppliers.
  - (4) Data compiled by plant officials in answer to USSBS questionnaire.
  - (5) Schedule of machine tools damaged.
  - \* (6) Map showing dispersal.

(7) Building plans for Ozone works and Koromo works.

----- [USB-13 Roll No. 221] -----

(8) Work sheets.

17. Nakajima Aircraft Company, Ltd., Corporation Report No. II, (air frames and engines) (final report and original draft).

a. Nakajima Aircraft Company, Ltd. (general data):

(1) History.

(2) List of plants, location, and products.

(3) Data on floor area, subcontractors, shipments, production, employment, productive man-hours.

(4) List of manufacturers and their products.

\* (5) Report on Nakajima A/C Company engine department: history, production data, equipment and personnel, air-raid damage, raw materials, parts, fuel, electric power.

(6) Flow production charts for Sakae and Homare engines.

(7) Air attack anti effects.

(8) Machine tool damage chart.

(9) Reply to USSBS questionnaire on construction, expansion and products; organization and subsidiary Plants; Government departments, officers and their relationship.

(10) Dispersal data.

(11) Blueprint of engines showing sources of component parts.

(12) Production graph.

(13) Subcontractors.

(14) Bomb plot.

(15) Installations in vicinity of Omiya (map).

(16) Distributing map of Fuji.

(17) Distributing map of dispersed units and subcontractors.

----- [USB-13 Roll Nos. 221-222] -----

(18) Work sheets.

----- [USB-13 Roll No. 222] -----

b. Nakajima Aircraft Company, Ltd. (Ota plant):

(1) History and organization.

(2) Production data.

(3) Productive floor area and subcontractors.

(4) Reasons for differences in ordered and actual production.

- (5) Interruption in supply of materials or component parts.
  - (6) List of suppliers of component parts and diagram.
  - (7) Raw materials ordered and received.
  - (8) Hangars on Ota airfield.
  - (9) Production flow chart.
  - (10) Map of distribution, Maebashi.
  - (11) Employment data.
  - (12) Air attack and effects.
  - (13) Dispersal (with maps).
  - (14) Photographs.
  - (15) Work sheets.
- c.* Nakajima Aircraft Company, Ltd. (Koizumi plant):
- (1) History.
  - (2) Organization chart.
  - (3) Description of buildings, floor area, building plans, and location maps.
  - (4) Products.
  - (5) Critical items.
  - (6) Interruption in supplies.
  - (7) Official supplies and delivery quantity.
  - (8) Names of parts supplied by Koizumi plant to other aircraft companies and their names.
  - (9) Names of subassembling factories
  - (10) List of substituted materials.
  - (11) List of raw materials and suppliers.
  - (12) Subcontracting.
  - (13) Spare parts shipped.
  - (14) Production data.
  - (15) Employment data.
  - (16) Attack data.
  - (17) Dispersal information.
  - (18) Assembly diagrams of Ginga and Zero fighters.
  - (19) Source of raw materials and quantities received.
  - (20) Work sheets.
- d.* Nakajima Aircraft Company, Ltd. (Musashi plant):
- (1) Organization chart, flow chart, map of Musashi plant, and economic survey report.

- (2) List of suppliers and materials supplied.
- (3) Interruption in supply of materials.
- (4) List of subcontractors.
- 5) Productive floor area.
- (6) Production deliveries to other companies.
- (7) Parts shipped.
- (8) Employment.
- (9) Production.
- (10) Air-raid precaution system; losses sustained through aerial bombings, damage data.
- (11) Dispersal schedule.
- (12) Photographs.
- (13) Work sheets.

----- [USB-13 Roll No. 222A] -----

*e.* Nakajima Aircraft Company, Ltd. (Handa plant):

- (1) Organization charts and history.
- (2) Raw materials, parts and components, in quantities required and delivered.
- (3) Floor area, subcontractors, spare parts shipped.
- (4) Employment data.
- (5) Production.
- (6) Diagram of "Tenzan" showing source of parts.
- (7) Attack data and damage maps.
- (8) Dispersal.
- (9) Photographs.
- (10) Work sheets.

*f.* Nakajima Aircraft Company, Ltd. (Omiya plant):

- (1) Employment data.
- (2) Production, planned and actual.
- (3) Components and parts supply chart.
- (4) Fluctuations in the machine tools.
- (5) Map of Omiya plant.
- (6) Map of welfare institutions—Omiya plant.
- (7) Dispersal.
- (8) Floor Area, subcontractors, spare parts shipped.
- (9) Work sheets.

*g.* Nakajima Aircraft Company, Ltd. (Hamamatsu plant):



- (1) History.
- (2) Distribution map.
- (3) Production.
- (4) Employment.
- (5) Subcontracting.
- (6) Beginning date and productive parts.
- (7) Damage maps.
- (8) Dispersal schedule.
- (9) Unidentified table.
- (10) Work sheets.

*h.* Nakajima Aircraft Company, Ltd. (Utsunomiya plant):

- (1) Production.
- (2) Employment.
- (3) Maps.
- (4) Subcontractors.
- (5) Air-attack effects.
- (6) Dispersal.
- \* (7) Experiment and research section report.
- (8) Photographs.
- (9) Work sheets.

*i.* Nakajima Aircraft Company, Ltd., dispersal plants:

- (1) Oya plant—production, employment, productive floor area.
- (2) Mishima plant—plant report following USSBS questionnaire.
- (3) Chiriyu plant—employment, production drop, air-attack damage.
- (4) Ogikubo plant—production, employment, expansion, products, maps.
- (5) Mitaka plant—production, employment, damage, and general data.

----- [USB-13 Roll No. 223] -----

18. Kawanishi Aircraft Company, Corporation Report No. III (airframes) (final report and original draft).

*a.* Kawanishi Aircraft Company, Ltd. (General drafts):

- (1) Company history.
- (2) Organization charts (Nos. 1, 2 & 3); government aid; Kawanishi families shares.
- \* (3) Copies of the orders from the government to Kawanishi Aircraft Company (the Second Munitions arsenal) and the report from Kawanishi Aircraft Company, Ltd., to the government (part Japanese).

- (4) Balance sheets 1939-44.
- (5) Production figures for Naruo and Himeji plants.
- (6) Organizational charts
- (7) Description of the Second Munitions arsenal.
- (8) Aerial photographs.
- (9) Work sheets.
- b. Kawanishi Aircraft Company, Ltd. (Naruo plant):*
  - \* (1) Japanese answers to Naruo plant questionnaire
  - (2) Result of plant, investigation.
  - (3) Types of aircraft produced in Naruo plant, January 1939-August 1945.
  - (4) Monthly production of propellers, chart of repairs on aircraft, outline of experimental airplanes.
  - \* (5) Report on damages due to air raid on Naruo plant.
  - \* (6) Airplane production by type 1928-38 (part Japanese).
  - (7) Dispersal plan (with maps).
  - (8) Critical shortages.
  - \* (9) Regular report to government.
  - (10) Employment (graphs).
  - (11) Machine-tool schedule (air raid, 9 June 1945).
  - (12) Organization chart.
  - (13) Production (graphs).
  - (14) Work sheets.
- c. Kawanishi Aircraft Company, Ltd. (Konan plant):*
  - (1) Answers to USSBS questionnaire from Konan plant officials.
  - (2) Aircraft produced in Konan plant.
  - (3) Work sheets.
- d. Kawanishi Aircraft Company, Ltd. (Himeji plant):*
  - (1) Aircraft produced in Himeji plant.
  - (2) Government supervisory agents and organization chart.
  - (3) List of shortages.
  - (4) Air-raid damage data.
  - (5) Answer to questions for Himeji plant.
  - (6) Plan for plant dispersal.
  - (7) Employment graphs.
  - (8) Work sheets.
- e. Kawanishi Aircraft Company, Ltd. (Takarazuka plant):*

- \* (1) Answers to USSBS questionnaire from Takarazuka plant officials (part Japanese).
- (2) Answer to question I.
- (3) Charts on machine tools.
- \* (4) Charts and graphs on employment, production, and air-raid damage.
- (5) Work sheets.

19. Kawasaki Aircraft Industries Company, Ltd. (final report and original draft).

*a.* Kawasaki Aircraft Industries Company, Ltd. (general data):

- (1) Book of engines and engine parts (drawings).
- (2) Organization chart.
- (3) Drawings and maps.
- (4) Production figures.
- (5) Employment statistics.
- (6) Air-raid precaution system.
- (7) Miyakonojo plant report.

----- [USB-13 Roll No. 224] -----

- (8) Work sheets.

*b.* Kawasaki Aircraft Industries Company, Ltd. (Kagamigahara, Gifu plant):

- (1) Answers to USSBS questionnaire No. 1.
- (2) Answers to USSBS questionnaires No. 2, No. 3, and No. 4.
- (3) Plant lay-out.
- (4) Performance.
- (5) Answers to supplementary questionnaire.
- (6) Employment statistics.
- (7) Physical description of aircraft.
- (8) Electric power consumed (graph).
- (9) Machine-tool damage.
- (10) Photographs.
- (11) Work sheets.

*c.* Kawasaki Aircraft Industries Company, Ltd. (Akashi plant):

- (1) Report No. 1.
- (2) Report No. 2.
- (3) Report No. 3.
- (4) Report No. 4.
- (5) Answers to USSBS questionnaire.
- (6) Production, planned and actual.

- (7) Production loss and recuperation cycle-graph.
  - (8) Shortages of parts and effect on production.
  - (9) Blueprint of engine.
  - (10) Maps and plant lay-out.
  - (11) Electric power consumption.
  - (12) Machine-tool damage.
  - (13) Photographs.
  - (14) Work sheets.
- d.* Kawasaki Aircraft Industries Company, Ltd. (dispersal plants):
- (1) Akashi oxygen apparatus plant.
  - (2) Kobe easting and forging plant.
  - (3) Miyakonojo plant.
  - (4) Sakai plant.
20. Aichi Aircraft Company, Corporation Report No. V (final report and original draft).
- a.* Aichi Aircraft Company, Ltd. (general data):
- (1) Information for questionnaire No. 1.
  - (2) Information for questionnaire No. 2.
  - (3) Production data.
  - (4) Employment.
  - \* (5) Maps (dispersals).
  - (6) Photographs.
  - (7) Work sheets.
- b.* Aichi Aircraft Company, Ltd. (Eitoku plant):
- (1) Plant report, on organization, production, employment, air-raid damage and dispersal.
  - (2) Photographs.
  - (3) Work sheets.
- c.* Aichi Aircraft Company, Ltd. (Atsuta plant):
- (1) Plant report covering general information.
  - (2) Photographs.
  - (3) Work sheets.
- [USB-13 Roll No. 224A] -----
21. Sumitomo Metal Industries, propeller division, Corporation Report No. VI (final report and original draft).
- a.* Sumitomo Metal Industries, propeller division (general data):
- (1) Report on history, organization, products, financial status, list of component

- plants, damage, production data.
  - (2) Destination of propellers, also recuperation cycle.
  - (3) Employment data.
  - (4) Electric power consumption.
  - (5) List of governmental and supervisory personnel and agencies.
  - (6) Japanese aircraft standard specifications and substitutions.
  - (7) Experimental and research data.
  - (8) Dispersal plants—Shizuoka plant and Tsu plant.
  - (9) Raw material received.
  - (10) Air-raid damage.
  - (11) Blueprints of propellers.
  - (12) Work sheets.
- b.* Sumitomo Metal Industries, propeller division (Kanzaki plant):
- (1) Organization chart.
  - (2) Raw materials and components, sources.
  - (3) Machine-tool schedule.
  - (4) Production loss and recuperation cycle.
  - (5) Kanzaki building chart showing types of structure and map of damage.
  - (6) Air-raid precaution system.
  - (7) Work sheets.
- c.* Sumitomo Metal Industries, propeller division (Sakurajima plant):
- (1) Monthly production, capacity table.
  - (2) Production loss and recuperation cycle.
  - (3) Machine-tool schedule.
  - (4) Photographs.
- [USB-13 Roll No. 225] -----
- (5) Work sheets.
22. Hitachi Aircraft Company, Corporation Report No. VII (airframes and engines)  
(final report and original draft):
- a.* Hitachi Aircraft Company (general data):
- (1) History and organization chart of the complex and of each subsidiary plant.
  - (2) Antecedents.
  - (3) Plant map and dispersal..
  - (4) List of products (graphic).
  - (5) Substitute materials.
  - (6) Technical data.

- \* (7) Plant location.
  - (8) Work sheets.
  - b.* Hitachi Aircraft Company (Chiba plant):
    - (1) Answer to USSBS questionnaire No. 1.
    - (2) Organization chart.
    - (3) Comparative amounts of component parts ordered and received.
    - (4) Employment chart.
    - (5) Results of air raids of 10 June 1945 and of 7 July 1945 (with maps).
    - (6) Dispersal program (with map).
    - (7) Work sheets.
  - c.* Hitachi Aircraft Company (Tachikawa plant):
    - (1) Report by plant officials.
    - (2) Labor statistics.
    - (3) An outline of the air-raid damage.
    - (4) Production—planned and achieved.
    - (5) Technical data.
    - (6) Dispersal—planned and achieved.
    - (7) Work sheets.
  - d.* Hitachi Aircraft Company (Haneda plant):
    - (1) Answers to USSBS questionnaire on production, employment, air-raid damage, dispersal.
  - e.* Hitachi Aircraft Company (Omori plant):
    - (1) General information about major factories in Tokyo.
    - (2) Answer to USSBS questionnaire No. 1.
    - (3) Answer to USSBS questionnaire No. 2.
    - (4) Supplementary information.
  - f.* Hitachi Aircraft Company (Kawasaki foundry):
    - (1) Answer to USSBS questionnaire.
    - (2) Postscript.
    - (3) Production flow chart.
23. Japan International Air Industries, Ltd.; Corporation Report No. VIII, airframes (final report and original draft):
- a.* Japan International Air Industries (general data):
    - \* (1) Document on procuring material.
    - \* (2) Basic material list of Ku 8 II.
    - \* (3) Basic material list of propellers for Ki 84.

- \* (4) Document on actual production.
- \* (5) Detailed design information for Ki 105.
- \* (6) Lay-out maps (2).
  - (7) Business report.
- \* (8) Production data.
- \* (9) Dispersal plans.
- (10) Organization chart,
- (11) Lay-out of Kamikyo plant.
- (12) Photographs.
- (13) Work sheets.

*b.* Japan International Air Industries (Kanzaki plant):

- \* (1) General plant report (with maps and statistics) (part Japanese).
- (2) USSBS field team report.

*c.* Japan International Air Industries (Hiratsuka plant):

- (1) Management charts, description and list of buildings.
- (2) Labor.
- (3) Production.
- (4) Dispersal.
- (5) Plant defense.
- (6) List of parts received.
- (7) Functional analysis.
- (8) Standard specifications for propellers.
- (9) Substitute material for propellers.
- (10) Electric power consumption.

*d.* Japan International Air Industries (Fukui plant):

----- [USB-13 Roll Nos. 225-225A] -----

- \* (1) Production, employment, air attack, dispersal.

----- [USB-13 Roll No. 225A] -----

- \* (2) Plant lay-out.
- \* (3) Damage map.
- \* (4) Air-attack damage data.
- \* (5) Dispersal.

*e.* Japan International Air Industries (Kyoto. Kamioka and Sonobe):

- (1) Data pertaining to Kyoto.
- (2) Data pertaining to Kamikyo.
- (3) Data pertaining to Sonobe.

(4) General data.

*f.* Japan International Air Industries (Yodogawa plant):

- (1) Document on procuring material, steel and iron.
- (2) Document on procuring material, nonferrous metal.
- (3) Document on production plan for component parts.
- (4) Basic material list for Ki 86.
- (5) Basic material list for Ha 47.

----- [USB-13 Roll No. 226] -----

- (6) Employment data.
- (7) Production.
- (8) Business report.
- (9) Organization, supervisory agencies, air-raid precaution, list of plants, list of suppliers.
- (10) Machine data.
- (11) Method and means of transporting materials to Yodogawa plant.
- (12) Maps—bomb plot and damage.

24. Japan Musical Instrument Manufacturing Company. Corporation Report No. 9 (propellers) (final report and original draft).

*a.* General data:

- \* (1) Reply to USSBS questionnaire No. 1.
- \* (2) Reply to USSBS questionnaire No. 2.
- \* (3) Reply to USSBS questionnaire No. 1 and No. 2 (supplementary information).
- \* (4) Outline of plant report.
- \* (5) Maps (lay-out, damage, and dispersal).
- (6) Work sheets.

----- [USB-13 Roll No. 226A] -----

25. Tachikawa Aircraft Company. Corporation Report No. 10 (air frames) (final report and original draft).

*a.* General data:

- (1) Production-planned, ordered, and actual.
- (2) Organization charts.
- (3) Labor graph.
- (4) Air-attack defense system.
- (5) List of critical items.
- (6) Damage map.
- (7) Casualties and production loss.



- (8) Dispersal plan.
  - (9) Loss due to dispersal and German influence on dispersal.
  - (10) Work sheets.
26. Fuji Airplane Company. Corporation Report No. 11 (air frames) (final report and original draft).
- a. General data:
    - (1) Company report in Japanese.
    - (2) Company report in English.
    - (3) Work sheets.
27. Showa Airplane Company. Corporation Report No. 12 (air frames) (final report and original draft).
- a. General data:
    - (1) Company report.
    - (2) List of machine tools.
    - (3) List of raw materials received.
    - (4) Component part—suppliers, address, products, amount received.
    - (5) Actual production.
    - (6) Work sheets.
28. Ishikawajima Aircraft Industries Company, Ltd., Corporation Report No. 13 (engines) (final report and original draft).
- a. General data:
    - (1) Reply to USSBS questionnaire.
    - \* (2) Company report (Japanese with English translation).
    - \* (3) Corporation report (part Japanese).
    - (4) Plant lay-out.
    - (5) Work sheets.
29. Nippon Airplane Company, Corporation Report, No. 14 (airframes) (final report and original draft).
- a. General data:
    - \* (1) Report on Questionnaire No. 1.
    - \* (2) Report on Questionnaire No. 2.
- [USB-13 Roll No. 227] -----
- \* (3) Report on Questionnaires No. 1 and No. 2 (part Japanese).
  - (4) Report for general questionnaire.
  - (5) Dispersal program.
  - (6) Bomb plot.

- (7) Work sheets.
30. Kyushu Airplane Company, Corporation Report No. 15 (airframes) (final report and original draft):
- a.* General data:
- (1) Company report in answer to USSBS questionnaire.
  - (2) Roll of film.
  - (3) Work sheets.
31. Shoda Engineering Company, Corporation Report No. 16 (components) (final report and original draft).
- a.* General data:
- (1) Report on plant visit by USSBS field team.
  - (2) Plant report.
  - (3) Production data.
  - (4) Application for conversion.
  - (5) Dispersal maps.
  - (6) Work sheets.
32. Mitaka Aircraft Industries, Corporation Report No. 17 (components) (final report and original draft).
- a.* General data:
- (1) Reply to USSBS questionnaire (three copies).
  - (2) Work sheets.
33. Nissan Automobile Company, Corporation Report No. 18 (engines) (final report and original draft).
- a.* General data:
- (1) Information on production, employment, air-raid damage, plant organization, supplies and machine tools.
  - (2) Work sheets.
34. Army Air Arsenal and Navy Air Depots, Corporation Report No. 19 (air frames and engines) (final report and original draft):
- [USB-13 Roll No. 227A] -----
- a.* Army air arsenal and Navy air depots (general data) ;
- \* (1) Answers to USSBS questionnaire.
  - \* (2) Inventory of equipment.
  - \* (3) Dispersal.
  - (4) Countermeasures for breaking the bottleneck in shipbuilding.
  - (5) Work sheets.

- b.* Army air arsenal and Navy air depots (First Naval Air depot, Kasumigaura):
- \* (1) Answer to USSBS questionnaire.
  - \* (2) Employment statistics (part Japanese).
  - (3) Air-raid precautions.
  - \* (4) Production statistics (part Japanese).
  - (5) Work sheets.
- c.* Army air arsenal and Navy air depots (Eleventh Naval Air depot):
- (1) Explanation data for a claimant of the Allies.
  - \* (2) Projected production.
  - \* (3) Production data (part Japanese).
  - (4) Maps.
  - (5) Work sheets.
- d.* Army air arsenal and Navy air depots (Twenty-first Naval air depot):
- \* (1) Production-planned and actual.
  - \* (2) Machine tool data; tools requested by twenty-first NAD subcontractors.
  - \* (3) Lower Korigawa woodworks jigs. [郡川]
  - (4) Plant lay-outs.
  - (5) Damage map.
  - (6) Dispersal (with map).
  - \* (7) Labor and bomb chart.
  - (8) Work sheets.
- e.* Army air arsenal and Navy air depots (Koza Naval depot):
- \* (1) Employment.
  - \* (2) Dispersal.
  - (3) Bottleneck shortages.
  - (4) Work sheets.
- f.* Army air arsenal and Navy air depots (Tachikawa Army air arsenal):
- \* (1) Report on USSBS questionnaire.
  - (2) Production data.
  - \* (3) Principal suppliers (part Japanese).
  - (4) Dispersal.
  - (5) Organizational charts.
  - (6) Maps.
  - (7) Work sheets.
- g.* Army air arsenal and Navy air depots (Tsu Naval Arsenal):
- (1) Plant report (with maps).

- (2) Work sheets.

----- [USB-13 Roll No. 228] -----

35. Underground Production of Japanese Aircraft, Report No. 20 (final report and original draft):

a. General data:

- (1) Summary of underground plants.
- (2) Maps of dispersed plants.
- (3) Data on Yusenji underground.
- (4) Photographs and negatives.
- (5) Work sheets.

b. Project No. 3061, Report on Japanese underground Industrial Installations, aircraft plants. PI section, topographic branch C-2.

----- [USB-13 Roll Nos. 228, 228A, 229] -----

36. Coals and Metals in Japan's War Economy (final report and original draft):

a. General data pertaining to basic materials:

----- [USB-13 Roll No. 229] -----

(1) Plot plans of important iron and steel plants:

- \*(a) Yawata iron and steel works.
- \*(b) Tobata plant, Yawata works.
- \*(c) Wanishi iron and steel works.
- \*(d) Kamishi iron and steel works.
- \*(e) Hirohata iron and steel works.
- \*(f) Osaka Steel works.
- (g) Fuji steel works.
- \*(h) Kenjiho iron and steel works.
- \*(i) Seishin iron works.

(2) The Japanese Army and Navy steel policy and administration:

- (a) Report of the War Planning Board.
- (b) Questions answered by the IJN.
- (c) Officials of the Naval Materials Depot.
- (d) Osaka steel mills plan.
- (e) Steel production for Munitions Ministry.
- \*(f) Chemical analysis of steels used by military (part Japanese).
- (g) Steel stocks received by arsenals.
- (h) Inspection system for steel plants.
- (i) List of Army and Navy representatives in the iron and steel industry.

- (j) Private business concerns operated by the Navy.
  - (k) Chart showing connections between industry and the War Ministry.
  - (l) List of confiscated materials.
  - m) Uses of substitute steels.
  - (n) Navy steel report.
  - (o) Machinery control.
- (3) Basic raw materials for the steel industry:
- (a) Coal consumption.
  - (b) Inventory of manganese ore.
  - (c) Inventory of magnesia clinker.
  - (d) Iron ore consumption.
  - (e) Receipts of and consumption of coal.
  - (f) Principal raw materials.
  - (g) Charging iron ore records.
  - (h) Scrap consumption.
  - (i) Scrap inventories.
- (4) Finished steel:
- \*(a) Actual output, production and consumption (part Japanese).
- (5) Ingot steel:
- (a) Planned and actual production by furnace and plant.
- (6) Rolled steel:
- (a) Plant capacity and production.
- (7) Scrap steel and iron:
- (a) Supply, consumption, and stocks.
- (8) Iron ore:
- (a) Production, imports, and supplies.
- (9) Pig iron, ingot steel, and rolled steel:
- (a) Production.
- (10) Capacity:
- (a) Plant capacities.
- (11) Employment data:
- (a) Labor problems caused by draft, air raids, and shortage of food.
  - (b) Employment statistics by plants.
- (12) Stocks:
- (a) Details of stock.
  - (b) The stocks of steel materials.

- (13) Plant expansion:
- (a) Plan for the moving of iron and steel manufacturing plants to Korea, Manchuria, Mongolia, and China.
  - (b) Detailed expansion plans since 1931 by plant and reasons for revisions in such plans.

(14) Consumption data:

----- [USB-13 Roll No. 229A] -----

- (15) Operational data—flow and control inventories:
- (a) Amount of coal supplied to blast furnaces.
  - (b) Coke, iron and steel production.
  - (c) Rolling schedule.
  - (d) Chemical composition of pig iron.
  - \* (e) Outline and flow sheets of smelting plants (part Japanese).
  - (f) Plans of operating the blast furnaces.
  - (g) Graphs.
  - (h) Water consumption of the steel industry.
  - (i) USSBS reports on iron and steel.
- (16) Bomb damage:
- (a) Compilation of bomb damage from company reports.
- (17) Bomb plots:
- (a) Sumitomo Metal Industries, steel works—1 June attack.
  - (b) Sumitomo Metal Industries, steel works—26 June attack.
  - (c) Sumitomo Metal Industries, steel works—24 June attack.
  - (d) Tobata areas of Yawata iron works.
  - (e) Yawata iron works, excluding Tobata areas.
  - (f) Sumitomo Metal Industries Ltd., steel pipe works.
  - (g) Sumitomo Metal Industries Company, Wakayama iron works.
  - (h) Nippon Seitetsu, Yawataworks (two copies).
  - (i) Sumitomo Kinzoku and Amagasaki (two different maps).
  - (j) Nippon Kokan Kawasaki works.

----- [USB-13 Roll No. 230] -----

- (18) Bomb damage reports:
- (a) Production lost due to air attacks.
  - (b) Bomb damage—Yawata
  - (c) Damages to special steel plants.
  - (d) Effects of air attacks on the unloading harbor facilities.

- (e) Air-attack precaution system.
- (f) Plot plan of various steel mills.
- (19) Photographs and negatives.
- (20) Answers to USSBS questionnaires (part Japanese).
- (21) Interview reports and interrogations:
  - (a) Interview reports and work sheets.
  - (b) No. 16, subject: iron and steel control organizations.
  - (c) No. 38, subject: iron and steel allocating and distribution.
  - (d) No. 69, subject: Army procurement of iron and steel.
  - (e) No. 70, subject: iron and steel—conference with Nippon Kokan officials and inspection of Kawasaki works.
  - (f) No. 89, subject: iron and steel production and allocations.
  - (g) No. 111, subject: iron and steel-data on Daido Seiko KK.
  - (h) No. 151, subject: Army suballocation of steel.
  - (i) No. 156, subject: production and allocation of iron, steel, and nonferrous metal by the Navy.
  - (j) No. 281, subject: Japan iron works, Nippon Seitetsu KK, Yawata plant operations.
  - (k) No. 290, subject: Japan iron works operations during war years.
  - (l) Wartime organization of Japanese Army and Navy.
  - (m) List of materials transported from occupied areas.
  - (n) Production figures and decrease and loss in production due to air raids and other causes.
- (22) Miscellaneous data pertaining to Tosei Kai:
  - (a) History and organization.
- (23) Draft and work sheets of the preliminary report.
- (24) Notes for the final report.
- (25) Nippon Seitetsu:
  - (a) Production.

----- [USB-13 Roll No. 230A] -----

- (26) Secret documents on munition: [軍需省文書]
  - (a) Secret documents on munition, 1945.
  - (b) Secret documents on allocation of munition.
- b.* Data pertaining to ferrous metals:
  - (1) Amagasaki Iron and Steel Manufacturing Company.
    - (a) Plant report including: organization, capacity, raw materials, production,

- employment, sales and distribution, air-raid precautions, bomb damage.
- (b) Bomb plots.
- (2) Army arsenals—Osaka:
  - (a) General data and notes.
- (3) The Asano Heavy Industry Company. Ltd.
  - (a) Plant report including: organization, capacity, raw materials, production, employment, sales and distribution, air-raid precautions, bomb damage.
  - (b) Plant diagram.
- (4) Azuma Seiko Company, Ltd.:
  - (a) Plant report including: organization, capacity, production, employment., air-raid precautions, bomb damage.
  - (b) Plant diagrams.
- (5) Azuma Steel Works Company, Ltd.:
  - (a) Plant report including: organization, raw materials, capacity, production, sales and distribution, air-raid precautions, bomb damage.

----- [USB-13 Roll No. 231] -----

- (6) Daido Steel Manufacturing Company, Ltd.—Amagasaki plant:
  - (a) Plant report including: flow sheet, capacity, raw materials, production.
- (7) Daido Steel Manufacturing Company, Ltd.:
  - (a) Miyako plant report including: organization, capacity, production.
  - (b) Minamiku plant-plant report.
- (8) Daido Steel Company—Anjo plant:
  - (a) Plant report including: organization, capacity, raw materials, production, employment, sales and distribution, air-raid precautions, bomb damage.
  - (b) Plant lay-out.
- (9) Daido Steel Company, Ltd.—Atsuta plant:
  - (a) Plant report including: organization, capacity, raw materials, production, air-raid precautions, bomb damage.
  - (b) Plant flow sheets.
  - (c) Plant lay-out.
- (10) Daido Steel Manufacturing Company, Ltd.:
  - (a) Plant report including: organization, capacity, raw materials, production, employment, sales and distribution; air-raid precautions.
  - (b) Plant layout.
  - (c) Plant flow sheets.
- (11) Daido Steel Manufacturing Company, Ltd.—Hoshizaki plant:



- (a) Plant report including: organization, capacity, raw materials; production, employment, sales and distribution, air-raid precautions, bomb damage!
  - (b) Bomb plot.
  - (c) Lay-out plan.
- (12) Daido Steel Manufacturing Company, Ltd.—Kanzaki plant:
- (a) Plant report including: organization, capacity, raw materials, production.
  - (b) Plant layout..

----- [USB-13 Roll Nos. 231-231A] -----

- (13) Daido Steel Manufacturing Company, Ltd.:
- (a) Plant report including: organization, government control, raw materials, production, sales and distribution, employment, air-raid precautions, bomb damage.

----- [USB-13 Roll No. 231A] -----

- (b) Bomb plots.
  - (c) Plant lay-out.
  - (d) Plant flow sheets.
- (14) Fujikoshi Steel Industrial Company, Ltd.:
- (a) Plant report including: organization, capacity, raw materials production employment, sales and distribution, air-raid precautions.
  - (b) Plant diagram.
- (15) Fujikoshi-Kozaikogyo Company. Ltd.:
- (a) Plant report including: organization, government control, capacity, raw materials, production, employment, sales and distribution, air-raid precautions, bomb damages.
  - (b) Plant diagrams.
- (16) Genzan iron and steel works:
- (a) Plant report.
- (17) Hinode Steel Company, Ltd.:
- (a) Plant report including: organization, capacity, raw materials, production, employment, sales and distribution, bomb damage.
- (18) Hitachi, Ltd. —Mito works:
- (a) Plant report including: organization, capacity, raw materials, production, employment, sales and distribution, bomb damage.
  - (b) Plant diagrams.
  - (c) Lay-out plan of steel shop.
- (19) Hitachi, Ltd. —Yasugi works: [安来]

- (a) Plant report including: organization, raw materials, production, sales and distribution, air-raid precautions.
- (20) Imperial Special Steel Company, Ltd.:
  - (a) Plant report including: organization, capacity, raw materials, production, employment, sales and distribution, air-raid precautions, bomb damage.
- (21) Japan High Frequency Current Heavy Industrial Company, Ltd.—Toyama works:
  - (a) Plant report including: organization, capacity, raw materials, production, employment, sales and distribution, air-raid precautions, bomb damage.
  - (b) Plant diagrams.
- (22) Japan steel works, Ltd. —Hiroshima works (main office):
  - (a) Plant report including: organization, capacity, raw materials, production, employment, sales and distribution, air-raid precautions, bomb damage.
  - (b) Plant report —Hiroshima factory—including: organization, capacity, raw materials, production, employment, sales and distribution, air-raid precautions, bomb damage.
  - (c) Foundry blueprint layout.
- (23) Japan iron ore mines:
  - (a) Mine reports and description of mines.
- (24) Japan Metal Industries Company, Ltd.:
  - (a) Plant report including: organization, capacity, raw materials, production, employment, sales and distribution, air-raid precautions, bomb damage.
- (25) Japan Iron Sand Industry Company, Ltd.:
  - (a) Shikama plant—report including: organization, capacity, raw materials, production, employment, sales and distribution, air-raid precautions, bomb damage.
  - (b) Plant diagrams.
  - (c) Takasago plant—report including: organization, capacity, raw materials, production, employment, sales and distribution, air-raid precautions, bomb damage.
  - (d) Plant diagram.
- (26) Japan steel works, Ltd. —Muroran works:
  - (a) Plant report including: organization, government control, capacity, raw materials, production, employment, sales and distribution, air-raid precautions (Japanese).
  - \* (b) Plant diagrams and charts (Japanese).

- (c) Plant report including: organization, government control, capacity, raw materials, production, employment, sales and distribution, bomb damage.
- (27) Japan Special Steel Company Ltd.
  - \* (a) Plant report including organization, capacity, raw materials, production, sales and deliveries, air-raid precautions, bomb damage (Japanese).
  - \* (b) Plant diagrams (Japanese).
- (28) Joint Stock Company (steel casting).
  - (a) Plant report including: organization, capacity, raw materials, production, employment, bomb damage.
  - (b) Plant diagram.

----- [USB-13 Roll Nos. 231A-231B] -----

- (29) Japan Iron and Steel Company, Ltd. —Yawata works:
  - (a) Plant report including: organization, capacity, raw materials, production, employment, sales and distribution, air-raid precautions, bomb damage.

----- [USB-13 Roll No. 231B] -----

- (30) Kanto Steel Works Company, Ltd.:
  - (a) Plant report including: organization, capacity, raw materials, production, employment, sales and distribution, bomb damage.
  - (b) Plant lay-out.
  - (c) Bomb plot.
- (31) Kawasaki Heavy Industries Company, Ltd. —iron works, Hyogo plant:
  - (a) Report covering war damages.
- (32) Kawasaki Heavy Industries, Ltd. —iron works:
  - (a) Plant report including: organization, capacity, raw materials, production, employment, sales and distribution, air-raid precautions, bomb damage.
  - (b) Plant diagrams.
- (33) Kobe Steel Works, Ltd.:
  - (a) Plant report including: organization, capacity, raw materials, production, employment, sales and distribution, air-raid precautions, bomb damage.
- (34) Kobe Steel Works, Ltd. —Kobe Plant:
  - (a) Plant report including: organization, capacity, production.
- (35) Kokko Chain, Steel Casting and Other Steel Manufacturing Company, Ltd.:  
[国光製鎖]
  - (a) Plant report including: organization, capacity, raw materials, production, employment, sales and distribution, air-raid precautions, bomb damage.

- (36) Kurimoto Iron Works, Ltd.:
- (a) Plant report including: organization, capacity, raw materials, production, employment, air-raid precautions, bomb damage.
  - (b) Bomb plot.
- (37) Mitsubishi Steel Manufacturing Company, Ltd.:
- (a) Plant report including: organization, capacity, raw materials, production.
  - (b) Flow sheets.
- (38) Mitsubishi Steel Company, Ltd.—Tokyo Works:
- (a) Plant report including: organization, capacity, raw materials, production, employment, sales and distribution, bomb damage.
  - (b) Plant lay-out.
- (39) Nagasaki steel works:
- (a) Plant report including: organization, capacity, raw materials, production, employment, sales and distribution, air-raid precautions, bomb damage.
  - (b) Bomb plot.
- (40) Naigai Steel Company, Ltd.:
- (a) Plant report including: organization, capacity, raw materials, production, employment, air-raid precautions, bomb damage.
  - (b) Sketch of Funabori works.
  - (c) Sketch of Sunamachi works.
- (41) Nakayama Steel Company, Ltd.:
- (a) Plant report including: organization, capacity, raw materials, production, employment, sales and distribution, air-raid precautions, bomb damage.
  - (b) Plant diagrams.
- (42) Nakayama Steel Works, Ltd.:
- (a) Plant report including: organization, capacity, raw materials, production, employment, air-raid precautions.
- (43) Nichi-Man Steel Works Company, Ltd.:
- (a) Plant report including: organization, capacity, raw materials, production, employment, sales and distribution, air-raid precautions, bomb damage.
  - (b) Plant diagrams.
- (44) Nippon electric iron works:
- (a) Plant report including: organization, capacity, raw materials, production, employment, sales and distribution, air-raid precautions, bomb damage.
  - (b) Sketch of plant diagram.
- (45) Nippon Kokan Kogyo Ltd. Company, Ltd.:

- (a) Report on the Gumma iron mine.
- (b) Report on the Tsukinoki mine.
- (c) Report on the Maekawa lime rock.
- (d) Report on the Suwa iron mine.
- (e) Report on the Yagishita mine.
- (f) Report on the Suwa mine.
- (g) Report on the Nagoh lime rock. [名郷]
- (h) Report on the Shiraiwa lime rock.
- (i) Report on the Agano lime rock.
- (j) Report on the Mitsumine mine.
- (k) Report on the Fukuchiyama mine.
- (l) Report on the Suwa iron mine.
- (m) Report on the Okoppe mine. [興部]

----- [USB-13 Roll Nos. 231B-231C] -----

- (n) Report on the Inazumi mine. [稲積]

----- [USB-13 Roll No. 231C] -----

- (o) Report on the Nagashiro mine. [長代]
- (p) Report on the Kamioka mine.
- (q) Report on the Myojohsan lime rock. [明星山]
- (r) Report on the Shimizuyama lime rock,
- (46) Nippon Metallurgical Company, Ltd.:
  - (a) Plant report including: organization, raw materials, capacity, employment, sales and distribution, air-raid precautions, bomb damage.

----- [USB-13 Roll No. 232] -----

- (47) Nippon Nickel Company, Ltd.:
  - (a) Plant report including: organization, capacity, raw materials, production, employment, sales and distribution, bomb damage.
- (48) Nippon Soda Company, Ltd.:
  - (a) Plant report including: organization, capacity, production, employment, sales and distribution, air-raid precautions, bomb damage.
- (49) Nippon Soda Company, Ltd. —Oshima steel plant:
  - (a) Plant report (based on presumptions).
  - (b) Plant diagrams.
- (50) Nippon Soda Joint-Stock Company—Toyama steel foundry:
  - (a) Plant report including: organization, government control, raw materials, production, employment, sales and distribution, air-raid precautions, bomb

damage.

- (51) Nippon Steel Tube Company, Ltd.:
  - (a) Plant report including: organization, capacity, raw materials, production, employment, sales and distribution, air-raid precautions, bomb damage.
  - (b) Plant diagram.
- (52) Nippon Steel Tube Company, Ltd.—Toyama steel works:
  - (a) Plant report including: organization, capacity, raw materials, production, employment, sales and distribution, air-raid precautions, bomb damage, diagrams of plant.
- (53) Nippon Steel Pipe and Special Steel Manufacturing Company, Ltd.:
  - (a) Plant report including: organization, capacity, raw materials, production, employment, sales and distribution, air-raid precautions, bomb damage.
  - (b) Sketch of bomb plot.
- (54) Nippon Steel Pipe and Special Steel Manufacturing Company, Ltd.—Sunamachi works:
  - (a) Plant report including: organization, capacity, raw materials, production, employment, air-raid precautions, bomb damage.
  - (b) Sketch of bomb plot.
- (55) Nissan Heavy Industry Corporation:
  - (a) Plant report including: organization, capacity, raw materials, production, sales and deliveries, air-raid precautions, bomb damage.
- (56) Nitia Steel Works, Ltd.:
  - (a) Plant report including: organization, capacity, raw materials, production, employment, sales and distribution, air-raid precautions, bomb damage.
  - (b) Plant lay-out.
- (57) Nomura Steel Manufacturing Company, Ltd.:
  - (a) Plant report including: organization, capacity, raw materials, production, employment, sales and distribution, air-raid precautions, bomb damage.
- (58) Oriental Steel Sheet Company, Ltd.:
  - (a) Plant report including: organization, capacity, raw materials, production, employment, sales and distribution, air-raid precautions.
  - (b) Plant diagram.
- (59) Osaka Shipyard Company, Ltd.:
  - (a) Plant report including: organization, capacity, raw materials, production, employment, sales and distribution, air-raid precautions, bomb damage.
- (60) Osaka Steel Manufacturing Company, Ltd.:

- (a) Plant report including: organization, governmental controls, capacity, raw materials, production, employment, sales and distribution, air-raid precautions, bomb damage.
  - (b) Plant report covering Amagasaki factory.
- (61) Osaka Special Steel Company, Ltd.:
- (a) Plant report including: organization, capacity, raw materials, production, employment, sales and distribution, air-raid precautions, bomb damage.
  - (b) Plant diagram.
- (62) Otani Heavy Industries Company, Ltd.:
- (a) Plant report including: organization, government control, capacity, raw materials, production, employment, sales and distribution, air-raid precautions, bomb damage.
- (63) Riken Industrial Corporation—Kakizaki factory and Hirai plant:
- (a) Kakizaki factory-report including: organization; capacity, raw materials, production, employment, sales and distribution, air-raid precautions, bomb damage.
  - (b) Hirai plant report including: organization, capacity, raw materials, production, employment, sales and distribution, air-raid precautions, bomb damage.
- (64) Sanki Engineering Company, Ltd.:
- (a) Plant report including: organization, capacity, raw materials, production, ales and distribution, air-raid precautions, bomb damage.
  - (b) Bomb plot.
- (65) Sanyo Steel Manufacturing Company, Ltd.:
- (a) Plant report including: organization, capacity, raw materials, production, employment, sales and distribution, air-raid precautions.
- (66) Showa Special Steel Manufacturing Company:
- (a) Plant report including: organization, capacity, raw materials, production, employment, sales and distribution, bomb damage.
- (67) Special Alloy Steel Manufacturing Company Ltd.:
- (a) Plant report including: organization, capacity, raw materials, production, sales and distribution, employment, air-raid precautions, bomb damage.
- (68) Sumitomo Special Steel Work, Ltd.:
- (a) Plant report including: organization, capacity, raw materials, production, employment, air-raid precautions, bomb damage.
  - (b) Bomb plot.

- (69) Sumitomo Metal Industries, Ltd.—Amagasaki works:  
(a) Plant report including: organization, capacity, raw materials, production, employment, air-raid: precautions, bomb damage.
- (70) Sumitomo Metal Industries, Ltd.—steel works:  
(a) Plant report including: organization, government control, capacity, raw materials, production, sales and distribution, air-raid precautions; bomb damage.  
(b) Plant diagrams and flow charts.
- (71) Sumitomo Metal Industry Company Ltd.—Wakayama iron works:  
(a) Plant report covering ferro-alloys and alloy steels.  
(b) Plant report covering iron and steel.  
(c) Plant report on steel tube works.  
(d) Plant diagrams.
- (72) Sumitomo Electric Industries, Ltd.:  
(a) Plant report including: organization, raw materials, production, air-raid precautions.  
(b) Plot diagram.
- (73) Ting Tan Iron and Steel Company, Ltd. (.China):  
(a) Sketches.
- (74) Toho Heavy Industry Company, Ltd. —Yokkaichi works:  
(a) Plant report including: organization, capacity, raw materials, production, employment, sales and distribution, air-raid precautions, bomb damage.  
(b) Bomb plot, flow sheets, plant diagrams.
- (75) Tohoku Metal Industry Company, Ltd.:  
(a) Plant report including: organization, capacity, production, raw materials, stock piles, employment, diagrams.
- (76) Tohoku Special Steel Company, Ltd.:  
(a) Plant report including: organization, capacity, raw materials, production, sales and distribution.  
(b) Plant diagrams.
- (77) Tokai Industrial Company:  
(a) Plant report including: organization, capacity, raw materials, production, employment, sales and distribution, air-raid precautions.
- [Roll No. 233] -----
- (78) Tokushuseiko Company, Ltd. (special steel Mfg. Company, Ltd.):  
(a) Plant report including: organization, capacity, raw materials, production,



employment, bomb damage.

----- [Roll No. 232] -----

- (79) Tokuyama Sheet Steel Company, Ltd.:
- \*(a) Plant report including: organization, capacity, raw materials, production, employment, sales and distribution, air-raid precautions, bomb damage, plant diagrams (part Japanese).
- (80) Tokyo-Shibaura Electric Company, Ltd. —Adachi steel works:
- (a) Plant report including: organization, capacity, raw materials, production, employment, sales and distribution, air-raid precautions.
  - (b) Plot plan.
- (81) Toto Steel Manufacturing Company, Ltd.:
- (a) Plant report including: organization, capacity, raw materials, production, sales and distribution, air-raid precautions, bomb damage.
  - (b) Plant diagrams.
- (82) Toyama Electric Steel Works:
- (a) Plant report including: organization, capacity, raw materials, production, bomb damage.
  - (b) Plant diagrams.

----- [USB-13 Roll No. 232A] -----

- (83) Toyo Steel Manufacturing Company, Ltd.:
- (a) Plant report including: organization, capacity, raw materials, production, employment, sales and distribution, air-raid precautions, bomb damage.
  - (b) Plant diagrams.
- (84) Toyota Steel Works, Ltd.:
- (a) Plant report including: organization, government control, capacity, raw materials, production, employment, sales and distribution, air-raid precautions, bomb damage.
  - (b) Plant diagrams.
- (85) Tsurumi iron and steel works:
- (a) Plant report including: organization, capacity, raw materials, production, employment, sales and distribution, air-raid precautions, bomb damage.
  - (b) Flow sheets.
- (86) Ube iron works:
- (a) Plant report including: organization, capacity, raw materials, production, employment, sales and distribution, air-raid precautions, bomb damage.
  - (b) Bomb plot.

- (c) Plant sketch.
- (87) Yamato Steel Manufacturing Company, Ltd.:
  - (a) Plant report including: organization, capacity, raw materials, production.
  - (b) Bomb plot.
- (88) Yodogawa Steel Manufacturing Company, Ltd.:
  - (a) Plant report including: organization, capacity, raw materials, production.
- (89) Report of the Ferro-Alloy Control Union:
  - (a) Members of the Ferro-Alloy Union.
  - (b) List of plants producing ferro-alloys.
  - (c) Production of ferro-alloys in Korea.
  - (d) Production of alloys by years.
  - (e) Capacity for manufacturing alloys by years.
  - (f) Production figures for ferromanganese.
  - (g) Production figures for ferrosilicon.
  - (h) Production figures for ferrochromium.
  - (i) Production figures for ferrotungsten.
  - (j) Production figures for ferromolybdenum.
  - (k) Production figures for ferrovanadium.
  - (l) Production figures for ferrotitanium.
  - (m) Production figures for ferrophosphorous.
  - (n) List of alloy producing plants as of 1944.

----- [USB-13 Roll No. 233] -----

- (90) Reports of the ferro-alloy manufacturing companies:
  - (a) Brief history of the Silicon Control Union.
  - (b) Brief history of the Mineral Ore Distribution Control Company.
  - (c) Report on the Mining Control Association.
  - (d) History of the Mining Bureau.
  - (e) The Japanese Tungsten & Molybdenum Manufacturers' Controlling Association.
  - (f) History of the Nippon Ferro-Alloy Association.
  - (g) Notes of USSBS members on the ferroalloy situation.
  - (h) Report on the Metal Distribution Control Company.
  - (i) Report on the Iron and Steel Control Association.
  - (j) Allocations.
  - (k) Changes in metals control during the war.
- (91) Iron and steel plant lay-outs:

- (a) Plant lay-out for Japan Iron and Steel Company—Hirohata works.
  - (b) Plant lay-out for Kokura steel works—Kyobi plant. [許斐]
  - (c) Plant lay-out for Kawasaki Steel Company-Kobe plant.
  - (d) Bomb damage plots Yawata iron works.
  - (e) Damage from warships shelling-Wanishi iron works.
  - (f) Damage from warships shelling—Kamaishi iron works.
  - (g) Flow diagram—Toho Heavy Industry Company, Yokkaichi plant.
  - (h) Plot plan-Toho Heavy Industry Company, Yokkaichi plant.
  - (i) Plant lay-out for Daido Steel Company, Hoshizaki plant.
  - (j) Plant lay-out—Hosho plant. [宝生]
  - (k) Plant lay-out—Tsukiji plant.
  - (l) Plant lay-out—Atsuta plant.
  - (m) Plant lay-out—Anjyo plant.
- (92) Data on air attacks:
- (a) Air attack report by the Japan Ferro-Alloy Control Union.
  - (b) Plant report on losses of capacity and production due to air attacks.
  - (c) Damages to special steels works.
  - (d) Summary of damage done to plants.
- (93) Special steels:
- (a) Report on the definition of special steels.
  - (b) Japanese Army steel specifications.
  - (c) Japanese Navy report on steel stock piles.
  - (d) Chart of special steel production.
  - (e) Tungsten refining.
  - (f) List of major companies and plants of the iron and steel industry.
  - (g) Names of steel—English and Japanese.
  - (h) Production records of alloy and high-carbon steels.
  - (i) Production records of special steels.
- (94) Ferro-alloy imports and exports:
- (a) Report of the Imperial finance office.
  - (b) Metals stock pile questionnaire.
  - (c) Manganese ore exported.
  - (d) USSBS notes on imports and exports.
  - (e) Imports and exports from conquered areas.
- (95) Uses of the ferro-alloys:
- (a) Uses of ferro-alloy steels.

- (b) Production of ferro-alloys.
- (c) Ferro-alloy developments.
- (d) Imports of ferro-alloy and ore from Korea and Formosa.
- (e) List of ore and ferro-alloy received by arsenals.
- (f) Export of ferroalloys from Japan.
- (g) Production of ferro-alloys in Japan proper.
- (h) Members of the Nickel and Cobalt Association.
- (i) Plant reports of the Showa Metallurgy Company.
- (j) Report of the Chuetsu Electric Industrial Company.
- (k) Plant report on the Taiyo Sendai Titan works.
- (l) Plant report on Sumitomo Industries.
- (m) Table of exports and imports from 1935 through 1944.
- (n) Allocations of nickel and cobalt.
- (96) Ferro-alloys shortages and research:
  - (a) USSBS notes and work sheets.
- (97) Capacities and production of plants producing ferro-alloys:
  - (a) Report pertaining to molybdenum.
  - (b) Report pertaining to titanium.
  - (c) Report pertaining to vanadium.
  - (d) Report pertaining to tungsten.
  - (e) Report pertaining to manganese.
  - (f) Report pertaining to chromium.
- (98) Plant-production reports on alloy steels (consisting of four envelopes).
  - (a) Plant report—Daido steel and the Tsukiji plant.
  - (b) Plant report—Hoshizaki plant.
  - (c) Plant report—Company unknown.
  - (d) Plant report—Omori and Idaneda works.
  - (e) Plant report—Sumitomo Metals Industry.
  - (f) Plant report—Company unknown.
  - (g) Plant report—Nippon Iron Sand Industry.
  - (h) Plant report—Mitsubishi Steel Manufacturing Company.
  - (i) Plant report—The Special Steel Manufacturing Company.
  - (j) Plant report—Nippon Soda Company.
  - (k) Plant report—Kanto Steel Works, Shibukawa plant.
  - (l) Plant report—Nippon Steel Tube Company. Miyama steel works.
  - (m) Plant report—Toto Steel Company, Miya plant.

(n) Plant report—Tujikoshi Steel Company, Higashi plant.

----- [USB-13 Roll No. 233A] -----

(o) Plant report—Nippon Kohan Steel Tube Company, Kawasaki plant.

(p) Plant report—Hitachi Iron Company, Mito works.

(q) Plant report—Kawasaki Heavy Industry Company, Fukiai plant.

\* (r) Plant report—Kabushiki Steel Company, Hitachi plant (part Japanese).

\* (s) Plant report—Imperial Special Steel Company, Naoetsu works (part Japanese).

(t) Plant report—Toyota steel works, Ohita plant.

(u) Plant report—Toyota steel works, Nagoya steel works.

(v) Plant report—Sanyo Steel Manufacturing Company.

(w) Plant report—Mitsubishi Steel Manufacturing Company.

(x) Plant report—Tokushuseiko Company, Ltd.

(y) Plant report—Nippon Metallurgical Industry Company, Kawasaki plant.

(z) Plant report—Kawasaki Heavy Industries Company, Nishinomiya plant.

(aa) Plant report—Japan Iron and Steel Company, Yawata works.

(99) Kawasaki, Nishinomiya foundry—graphs on employment, production, raw materials, fuel, and power:

(a) Industrial labor force-productive hours and hours lost; skilled and unskilled workers.

(b) Scrap iron and ruppe received and in stock—19 May 1945 to 15 August 1945.

(c) Amount of limestone and hematite ore received and in stock—19 May 1945 to 15 August 1945.

(d) Magnesia clinker received and in stock—19 May 1945 to 15 August 1945, and dolomite received and in stock and allocation—19 May 1945 to 15 August 1945.

(e) Electrode received, in stock and allocated—19 May 1945 to 15 August 1945.

(f) Output of ordinary steel ingot and special steel ingot—19 May 1945 to 15 August 1945, and output of rolled bar, forged bar, and stamped products—19 May 1945 to 15 August 1945.

(g) Amount of coal received and in stock, and allocated—19 May 1945 to 15 August 1945.

(h) Amount of electric power consumed—May to August 1945.

(100) Kawasaki, Nishinomiya foundry—graphs on employment, production, and raw materials:

- (a) Total number of workers and those presently employed—October 1943 to August 1945 (two copies).
  - (b) Amount of pig iron, scrap, iron ore, alloyed iron and nonferrous received and allocated—October 1943 to August 1945 (four copies).
  - (c) Actual production of forged steel goods, rolled goods—October 1943 to August 1945 (two copies).
  - (d) Actual production of cast steel goods and cast iron goods—October 1943 to August 1945 (two copies).
- (101) Kawasaki Heavy Industry—Fukiai iron plate warehouse—graphs on labor force, production, and raw materials:
- (a) Employment data—17 January 1945 to 15 August 1945.
  - (b) Production data on motor sheet transformers and special steel for aircraft—October 1943 to August 1945, and production data on ordinary steel sheet, plate for cartridge, and ordinary steel plate.
  - (c) Coal, scrap, and pig iron received, in stock, and allocated, October 1943 to August 1945.
  - (d) Limestone, ferro-mangan, and hematite ore received, in stock, and allocated—October 1943 to August 1945.
- (102) Stock inventory of Kobe steel works:
- (a) Graphic monthly inventory of coal—October 1943 to August 1945.
  - (b) Graphic monthly inventory of pig iron—October 1943 to August 1945.
  - (c) Graphic monthly inventory of products—October 1943 to August 1945.
  - (d) Graphic monthly inventory of scrap—October 1943 to August 1945.
- (103) Production and stock data of Kawasaki Rolling-Stock Manufacturing Company, Ltd.:
- (a) Production data—April 1942 to August 1945 (graph).
  - (b) Components and raw materials received—December 1941 to August 1945 (graph).
  - (c) Wood received and allocated—December 1941 to August 1945 (graph).
  - (d) Noniron metal received and allocated.
  - (e) Steel received and allocated—December 1941 to August 1945 (graph).
  - (f) Pig iron received and allocated.
- (104) Graphs on raw materials and production at Kawasaki shipbuilding yard:
- (a) Amount of steel received, in stock, and allocated—October 1943 to August 1945.
  - (b) Amount of metal material, excluding steel, received, allocated, and in

stock—October 1943 to August 1945.

- (c) Amount of wood received, allocated, and on hand—October 1943 to August 1945.
  - (d) Production chart—October 1943 to August 1945.
- (105) Stock inventory of Kobe shipyard and engine works—Mitsubishi H. I. Ltd., Kobe, Japan:
- (a) Graphic monthly inventory of coke—October 1943 to August 1945.
  - (b) Graphic monthly inventory of milled steel—October 1943 to August 1945.
  - (c) Graphic monthly inventory of special steel—October 1943 to August 1945.
  - (d) Graph of entire production in yen—October 1943 to August 1945.
  - (e) Graphic monthly inventory of lumber—October 1943 to August 1945.
  - (f) Graphic monthly inventory of tin, lead, zinc—October 1943 to August 1945.
  - (g) Graphic monthly inventory of milled steel, forged—October 1943 to August 1945.
  - (h) Graphic monthly inventory of copper, brass, aluminum—October 1943 to August 1945.
- (106) Production of essential products:
- (a) Actual production of essential materials during the war—1941-44 and January 1945.
  - (b) Decrease of production output due to air raid—Ministry of Commerce and Industry, September 1945.
- (107) Industry, general:
- \* (a) Relation between the industrial equipment authority and the government (part Japanese).
  - \* (b) Problems of postwar industrial reconstruction (Japanese).
  - \* (c) Patriotic industrial movement (Japanese).
- [USB-13 Roll No. 234] -----
- \* (d) List of industries in Japan (Japanese).
- c. Data pertaining to nonferrous metals:
- (1) Coal—preliminary drafts of final report:
    - (a) Draft copy of report titled "Coal in Japan's War Economy."
    - (b) Pencil copy and work sheets.
    - (c) Summary of interrogation of M. Kunisaki, vice president of Nippon Coal Company.
  - (2) Coal—report by Coal Association of Japan:
    - (a) Report on coal in Japan as to production, consumption, imports, and prices

by the Coal Control Association of Japan.

- (3) Coal—industry and company structure:
  - (a) Chart and brief report pertaining to the organization and function of the Nippon Sekitan Kaisha Company, Ltd.
  - (b) The articles of incorporation of the Koeki Eidan.
  - (c) Diagram showing organization of the Nagasaki Mining Company, Ltd.
  - (d) List of officials of Nippon Coal Company, Ltd.
  - (e) Diagrams showing the organization of Coal Distributing Administration.
  - \* (f) Diagram showing lay-out of system for reporting mine production (Japanese).
  - (g) Brief history of the development of the Coal Control Association.
  - (h) Correspondence pertaining to report on Coal Control Association.
- (4) Coal—production:
  - (a) Over-all production figures for Japan proper.
  - (b) Demand and supply in Japan.
  - (c) Graph showing relation of receipt steel to various production factors.
  - (d) Figures on production of coal by Navy controlled mines.
- (5) Coal—by-products of coke and gas:
  - \* (a) Over-all Japanese report on production and consumption of coke and gas (part Japanese).
  - (b) Statistics on coke production.
  - (c) Figures showing interisland transportation of coke.
  - (d) Figures and graph pertaining to consumption of coke.
  - (e) List of coal gas plants and damages to each.
- (6) Coal—production and transportation of coal within inner zone:
  - (a) Over-all production and transportation figures.
  - (b) Coal production and exports from China with related labor statistics.
  - (c) Production and exports of Karafuto coal.
  - (d) Production and exportation of Manchurian coal.
  - (e) Production of coal in Korea.
  - (f) Figures on cargo volumes and losses during the war.
  - (g) Brief report on recommendation to improve ports along Japan's sea coasts.
- (7) Coal—interisland transportation:
  - (a) Over-all figures on interisland shipping.
  - (b) Railway loadings of coal and coke in Japan, for years 1936 to 1945.
  - (c) Statistical report on coal situation in Osaka area.



- (d) Coal transported from Hokkaido and Kyushu.
  - (e) Coal transported from Ube by water.
  - (f) Coal transported to other districts from unloading ports in Kinki district.
  - (g) Shipments to Tokyo.
- (8) Coal—consumption, prices, allocations, and stocks:
- (a) Tables showing allocations of coal industry.
  - (b) Tables and figures on consumption in Japan proper.
  - (c) Figures on amount of coal used by the Army.
  - (d) Prices and price curves for coal consumption in Japan.
  - (e) Information and data on reserves.
- (9) Coal—labor, equipment, efficiency, and quality of coal produced:
- (a) Production figures-efficiency ratings per miner.
  - (b) Coal-mining efficiency by districts.
  - (c) Analysis of drop in both quality and output of coal.
  - (d) Brief statistical analysis of labor used by the coal—mining industry.
  - (e) List of more important equipment used in handling coal with supporting figures.
- (10) Coal—imports:
- (a) Imports of coal to Japan proper.
  - (b) Imports by source.
  - (c) Imports of coal from various sources from 1931 through 1943.
- (11) Coal—United States Government publications:
- (a) Fuel and power in Japan.
  - (b) Coal (detailed statistics).
  - (c) Coal in 1931.
  - (d) Pennsylvania anthracite.
  - (e) International coal trade.
  - (f) Mineral-industry surveys.
  - (g) Civil affairs handbook on the coal—mining industry of Japan.

----- [USB-13 Roll No. 235] -----

- (12) Coal—maps and charts:
- (a) Diagrams showing the flow system for handling demand and supply of vital products in Japan.
  - (b) Maps of Japanese coal fields.
  - (c) Diagram showing bomb damage to electric facilities at Miike coal mine.
- (13) Coal—Hokkaido colliery and steamship:

- (a) Statistics on labor and material used by company.
  - (b) Statistical report covering financial statement, production, and employment analysis of company.
  - (c) Notes and work sheets.
- (14) Coal—Mitsubishi Mining Company, Ltd.:
- (a) Draft of report on subsidiaries covering labor and production figures with maps of mining areas.
  - (b) Operations statistics for subsidiary mines.
  - (c) Information on air-raid damages.
- (15) Aluminum—general data:
- (a) Brief history of industry.
  - (b) Index of factories and plants.
  - (c) Record of imports of bauxite and shale from China and Korea.
  - (d) Data on stocks of aluminum and related materials.
  - (e) Notes and worksheets.
- (16) Aluminum—allocations and distribution:
- (a) Formula for calculating aluminum per airplane.
  - (b) Aluminum production and allocation to aircraft.
  - (c) Allocation and distribution of aluminum ingot.
  - (d) Allocation of Navy.
  - (e) Allocations to and consumption by the Army.
- (17) Aluminum—production:
- (a) Detailed statistics on production of aluminum and related light metals.
  - (b) Data on production of soda ash.
  - (c) Production figures for crude aluminum sulphate.
  - (d) Graph showing supply and demand curves for aluminum products.
- (18) Aluminum—damages through air attack:
- (a) List of plants which were seriously damaged.
  - (b) Table showing drop in aircraft production following destruction of aluminum plants.
  - (c) Japanese report (with translation) showing damages to plants.
  - (d) Notes.
- (19) Aluminum—Dai Nippon Chemical Industries Company:
- (a) Statistical report covering employment, production, raw materials, fuel and power, bomb damage.
  - (b) Paper explaining plant organization and chemical processes.

- (20) Aluminum—Domestic Aluminum Producing Company, Ltd.:
  - (a) Draft of over-all report covering company history, employment, production, bomb damage, flow sheets, organization charts.
- (21) Aluminum Electro—Chemical Industries, Ltd.:
  - (a) Report including: history and organization employment, production, equipment, bomb damage, raw materials, fuel and power, flow sheets, capacity, lay-out plan—Kitakata plant.
  - (b) Plant report including: history and organization, capacity, employment, production, equipment, bomb damage, raw materials, fuel and power, flow sheets, lay-out plant—Toyama plant.
  - (c) Plant report including: history and organization, capacity employment production, equipment, bomb damage, raw materials, fuel and power, flow sheets, lay-out plan—Yokohama plant.
  - (d) Plant report including: history and organization, capacity, employment, production, equipment, bomb damage, raw materials, fuel and power, flow sheets, lay-out plant—Omachi plant.
- (22) Aluminum—Japan Aluminum Company, Ltd.:
  - (a) Tables and statistics pertaining to employment, production, receipt of raw materials, fuel and power, quality of production, lay-out plan and flow sheets—Takao plant.
  - (b) Plant lay-out and flow sheets—Kurosaki works.
  - (c) Lay-out plan and flow sheets—Karenko works.
  - (d) Combined report covering data on: organization, history, employment, production, power and fuel, raw materials.
- (23) Aluminum—Nitto Kagaku Kogyo Company, Ltd.:
  - (a) Plant Report including: history and organization, flow sheets, capacity, raw materials, employment, production, financial statement, lay-out plans.
- (24) Aluminum—Mitsubishi Light Metal Manufacturing Company, Ltd.:
  - (a) Plant report including: organization, employment, production, raw materials.
- (25) Aluminum—Mitsui Light Metals Company:
  - (a) Plant report including: organization, employment, production, stocks, raw materials, fuel and power, quality of produce, bomb damage, flow sheets, lay-out plan.
  - (b) Outline of operation (Bayer process).

- (c) Description of equipment.
  - (d) Plan of Miike Works.
  - (e) Notes and work sheets.
- (26) Aluminum—Nippon Light Metal Company, Ltd.:
- (a) Kambara works-plant report including: organization, flow sheets, employment, production, raw materials, fuel and power, bomb damage, lay-out plan, bomb plot, statement of assets.
  - (b) Niigata works-plant report including: organization, capacity, employment, production, raw materials, fuel and power, lay-out plan, flow sheets, bomb damage.
  - (c) Plant report including: organization, capacity and processes, employment, production, equipment, bomb damage, flow sheets, lay-out plans-Shimizu works.
  - (d) General description of plant.
  - (e) Evaluation of bomb damage.
  - (f) Notes and work sheets.
  - (g) Prints of bomb damage.
- (27) Aluminum—Nippon Soda Company:
- (a) Plant report including: production, employment, raw materials, fuel and power.
  - (b) Organization flow sheet.
  - (c) Table of equipment.
  - (d) Lay-out plans.

----- [USB-13 Roll No. 235A] -----

- (28) Aluminum—Onoda Cement Company, Ltd.:
- (a) Plant report including: organization, financial statement, employment, production, raw materials, fuel and power, bomb damage (for both Yawata and Tsunemi plants).
  - (b) Technical notes on visits to plants.
  - (c) Figures and information on plant processes.
  - (d) Table showing monthly alumina clinker production.
  - (e) Layout plans for Yawata and Tsunemi plants and for head office of company.
- (29) Aluminum—Shibaura United Engineering Company:
- (a) Information on organization, financial status, construction, equipment, production, employment.

- (b) Labeled photographs of bomb damage with bomb plot attached.
- (30) Aluminum—Sumitomo Metal Industries, Ltd.:
- (a) Narumi plant-plant report including: history, organization, financial statement, production, employment, raw materials, fuel and power, lay-out plan.
  - (b) Toyohashi plant-plant report including history, organization, financial status, production, employment, fuel and power, raw materials, diagrams of manufacturing processes, lay-out plan.
  - (c) Plant report including: history, organization, financial status, production, employment, raw materials, fuel and power, flow sheets, equipment inventory, lay-out plan, and technical notes made on visits—Osaka plant.
  - (d) Plant report including: history, organization, financial status, employment, production, raw materials, fuel and power, equipment inventory, flow sheets, bomb damage, lay-out plan—Nagoya plant.
  - (e) Plant report including: history, organization, financial status, employment, production, raw materials, fuel and power, equipment inventory, flow sheets, bomb damage, lay-out plans—Katada plant.
- (31) Aluminum—Sumitomo Chemical Company, Ltd. —Light metal works:
- (a) Niihama works-plant report including: history, organization, employment, production, raw materials, fuel and power, lay-out plan, flow sheet, inventory of equipment, quality of produce.
  - (b) Lay-out plans of plant, equipment, and processes.
- (32) Aluminum—Tohoku-Shinko Aluminum Company, Konyama plant:
- (a) Plant report including: history, organization, employment, production, raw materials, Lay-out plan, bomb damage.
- (33) Aluminum—Toyo Soda Company:
- (a) History and organization of plant.
  - (b) Data on production, employment, fuel and power, raw materials, quality of produce.
  - (c) Lay-out plan.
  - (d) Flow sheets of soda-lime processes.
- (34) Aluminum—reports on various metal powder and die-casting companies:
- (a) Japan Metal Powder Company, Incorporated—plant report including: history, organization, production, employment, raw materials, fuel and power, inventory of equipment, Lay-out plan.
  - (b) Fukuda Metal Foil and Powder Manufacturing Company Ltd.—Plant

- report including: history, organization, production, employment, raw materials, fuel and power, lay-out plan.
- (c) Yamato Metal-Powder Manufacturing Company, Ltd.—plant report including: history, organization, financial status, employment, production, capacity, inventory of equipment, raw materials fuel and power, bomb damage.
  - (d) Tanaka Die-Cast Company—plant report including: history, financial status, employment, production, raw materials, fuel and power.
  - (e) Aichi Die-Casting Company, Ltd.—plant report including: history, organization, employment, production, raw materials, fuel and power, lay-out plan.
  - (f) Imperial Die-Cast Industrial Company—plant report including: history, organization, employment, production, raw materials, fuel and power, financial statement.
  - (g) Furukawa Castings Company—plant report including: history, organization, financial status, employment, flow sheets of processes, lay-out and equipment, raw materials, fuel and power, bomb damage.
  - (h) Manchuria Light Metals Manufacturing Company, Ltd. —plant report including: history, organization, financial status, affiliates, construction, employment, processes, lay-out plans, equipment, raw materials, power, bomb damage.
  - (i) Asada Chemical Company, Ltd.—plant report including: history, organization, financial status, employment, production, construction, raw materials, equipment, capacity, fuel and power, bomb damage, flow sheets.
  - (j) Yamato Industrial Company—plant report including: history, organization, affiliates, construction, employment, production, lay-out and equipment, capacity, raw materials, fuel and power, bomb damage.
  - (k) Toyo Daikasuto Goshi Kaisha—plant report including: history, organization financial status, affiliates, construction, employment, production, capacity, raw materials, fuel and power, lay-out and equipment, bomb damage.
- (35) Copper—stock list:
- (a) Over-all data on imports, production, capacity, stocks, allocations, consumption.
- (36) Copper—Fujikura Electric Wire Company, Ltd.:
- (a) Plant report including; organization, manufacturing, personnel, air-raided precautions, bomb damage.

- (37) Copper—Furukawa Mining Company—Ashio copper mine:
- (a) Plant report.
  - (b) Map of mine.
  - (c) Plant diagrams.
  - (d) Flow sheets.
- (38) Copper—Goto Alloy Foundry Company:
- (a) Plant report including: organization, personnel, production, air-raid precautions, bomb damage.
- (39) Copper—Hitachi-Electric Wire works:
- (a) Plant report including: organization, employment, list of products, flow sheets, plant layout, equipment, capacity, production, air-raid precautions, bomb damage.

----- [USB-13 Roll No. 236] -----

- (40) Copper—The Nippon Mining Company, Ltd. (Tokyo).
- (a) Plant report including organization, employment, and production data.
  - (b) Flow sheets and flow diagram.
  - (c) Bomb plot.
  - (d) List of main metal mines and smelters.
- (41) Copper—Nippon Mining Company, Ltd. (Kamikita Mine).
- (a) Plant report including: production, employment data, fuel and power, processes, plant layout and equipment, air-raid precautions, bomb damage.
  - (b) Flow sheets.
  - (c) Plant layout.
- (42) Copper—Nippon Mining Company, Ltd. (Ogoya mine and smelter).
- (a) Plant report including: organization, construction, personnel, processes, plant lay-out and equipment, capacity, production, raw materials, fuel and power, air-raid precautions.
- (43) Copper—Nippon Mining Company, Ltd. (Saganoseki refinery):
- (a) Plant report including: production, fuel and power, plant layout, equipment, capacity, raw materials, air-raid precautions, and bomb damage.
  - (b) List of major items of equipment.
  - (c) Flow sheet.
  - (d) Map of general plan.
  - (e) Map showing bomb damage.

- (44) Copper—The Showa Electric Wire and Cable Company, Ltd.:
- (a) Plant report including: organization, manufacturing, Plant layout and equipment, air-raid precautions and bomb damage.
- (45) Copper—Sumitomo Metals Industries, Ltd.:
- (a) Plant report including: organization, manufacturing data, construction, capacity and production data, air-raid precautions, and bomb damage.
- (46) Copper—Tokyo No. 1 Arsenal:
- (a) Plant report.
  - (b) Plant diagram.
- (47) Copper—Tokyo Wire Manufacturing Company:
- (a) Plant report including: organization, manufacturing data, personnel, plant layout and equipment, capacity, production data, air-raid precautions, bomb damage.
  - (b) Plant diagrams.
- (48) Magnesium:
- (a) General survey of leading magnesium producers.
  - (b) Magnesium production and capacity by months.
  - (c) Magnesium produced during last 10 years by company and by months.
  - (d) Magnesium, produced, imported, and exported—1933-45.
  - (e) Production of magnesium remelted ingot.
  - (f) Stocks of magnesium ingot and magnesium producing materials.
  - (g) Navy allocation and use by end products.
  - (h) Consumption of magnesium by Army.
  - (i) Distribution and delivery of light metal.
  - (j) Distribution of magnesium ingot by year—1942-45.
  - \* (k) Index of magnesium factories showing war damage (also in Japanese).
  - (l) Imports of dolomite (two copies, old and new).
  - (m) Production of dolomite (two copies, old and new).
  - (n) Outline of magnesium preliminary report.
  - (o) Technical notes on Rikin Metal Company plant.
  - (p) Magnesium producing materials—stocks by years and by companies.
  - (q) Imports of magnesium-producing materials.
  - (r) Imports of magnesite and magnesia clinker.
  - (s) Questionnaire—Manshu Magnesium, Manchuria (copy of questionnaire in folder).
  - (t) Personnel in magnesium plants as of December 1944.



- (u) Exports of magnesium from Japan.
- (v) Notes and work sheets.
- (49) Asahi Electrochemical Company, Ltd.:
  - (a) Plant report including: organization, manufacturing data, personnel data, processes, plant layout and equipment, raw materials, fuel and power, air-raid precautions, bomb damage.
  - (b) Bomb plot.
  - (c) Flow sheet.
- (50) Kanto Electrochemical Industrial Company, Ltd.:
  - (a) Plant report, including: organization, manufacturing data, employment data, production, fuel and power, air-raid precautions, bomb damage.
- (51) Mitsubishi Magnesium Industry Company, Ltd.:
  - (a) Plant report including: organization, manufacturing data, employment data, fuel and power.
- (52) Riken Metal Manufacturing Company, Ltd.:
  - (a) Plant report including: organization, capacity, production, raw materials, fuel and power, air-raid precautions and bomb damage, employment data, processes.
  - (b) Bomb plot.
- (53) Teikoku Magnesium Company, Ltd.:
  - (a) Plant report including: organization manufacturing data, employment data, plant layout and equipment, production, air-raid precautions, bomb damage.
- (54) Tin—general data:
  - (a) Technical notes.
  - (b) Production statistics.
  - (c) Imports.
  - (d) Consumption and allocations.
- (55) Tin—Japan Foil Manufacturing Company, Ltd.:
  - (a) Plant report 'including: history and organization, financial statement, affiliates, construction, employment, processes, layout and equipment, capacity, production, materials used, fuel and power, air-raid damages.
  - (b) Diagrams of layout and equipment.
- (56) Tin—Mitsubishi Mining Company:
  - (a) Layout plan.
  - (b) Employment data.

- (c) Figures on production.
  - (d) Tables showing raw materials used.
  - (e) Statistics on fuel and power.
  - (f) Inventory of equipment.
  - (g) Figures on quality of tin produced.
  - (h) Flow sheets.
- (57) Tokai Metal Industrial Company, Ltd.:
- (a) Plant report including: organization, manufacturing data, construction, personnel, processes, production, list of equipment, air-raid precautions, bomb damage.
  - (b) General arrangement of Hosokura metal mine.
- (58) Lead—general:
- (a) Production.
  - (b) Lead imports.
- (59) Zinc—Over-all information:
- (a) Notes and preliminary material pertaining to report on zinc.
  - (b) Flow sheets showing manufacturing processes.
  - (c) Production figures.
  - (d) Tables and information on zinc imports.
  - (e) Data on allocations and consumption.
- (60) Zinc—Mitsubishi Mining Company, Ltd.:
- (a) Naoshima plant—Report material covering production, raw materials, quality of produce, flow sheets, inventory of equipment, layout plan.
  - (b) Hosokura electrolytic zinc plant—Report covering production, flow sheet, raw materials, equipment, employment, bomb plot, process flow sheets, Layout plans.
  - (c) Combined report on Shinshimo-Kawa, Osarizawa, Hosokura, Ikuno, Akenobe, Makimine Mines—Report covers history, organization, layout, equipment, raw materials, power, bomb damage.
- (61) Zinc—Mitsui Mining Company, Ltd. (consisting of three envelopes):
- (a) Kamioka Mine—Report covering history, organization, affiliates, employment, production, construction, processes, equipment capacity, raw materials, fuel and power, bomb damage.
  - (b) Miike zinc smelter—Report covering history, affiliates, employment, production, processes, equipment, capacity, bomb damage, countermeasures, flow sheets of processes.

- (c) Flow sheets.
  - (d) Lay-out plans.
  - (e) Miike zinc smelter (distilled and electrolyte)—report covering history, organization, affiliates, employment, production, capacity, construction, raw materials, processes, power and fuel, lay-out, equipment, bomb damage, flow sheets.
  - (f) Hikoshima zinc smelter—Report covering history, organization, affiliates, employment, production, capacity, construction, raw materials, processes, power and fuel, lay-out, equipment, bomb damages, flow sheets.
- (62) Mercury and antimony—general data:
- (a) Imports of mercury and antimony.
  - (b) Allocations and consumption of antimony.
  - (c) Allocations and consumption of mercury.
- (63) Preliminary draft—light and nonferrous metals.

----- [USB-13 Roll No. 236A] -----

- (64) Mining Control Association:
- (a) List of companies, locations major products.
- (65) Light metals—plant lay-outs:
- (a) Lay-out plan of Oe plant.
  - (b) Lay-out plan of Kawasaki Jukogyo at Kobe.
  - (c) Lay-out plan of Sumitomo, Metal Industries Company, Ltd., Wakayama works.
  - (d) Lay-out plan of Nakayama Seitetsu, Osaka
- (66) Nonferrous metals:
- (a) General data on nonferrous metals, including copper.
  - (b) Interview summaries and drafts.
  - (c) Table showing personnel in light metal plants.
  - (d) Diagram showing light metal production, and distribution set-up.
  - (e) List of light and nonferrous metals installations.
  - (f) Consumption rate on nonferrous metals in 1942.
  - (g) List of brass mill plants.
- (67) Maps and charts:
- (a) Map showing main mines and smelters.
  - (b) General arrangement of Niigata works.
  - (c) Plant lay-out.
- (68) The Furukawa Electric Company, Ltd. (The Nikko works).

- (a) Plant report.
  - (b) Plant diagrams.
- (69) The Mitsubishi Mining Company, Ltd.:
- (a) Plant report including list of equipment, personnel data, materials and power data, production data, fuel and power data, quality data.
  - (b) Lay-out map of plant and bomb plot map.
  - (c) Lay-out map and bomb plot of smelting and refinery.
  - (d) Flow sheets.
- (70) Morishima Industrial Company:
- (a) Plant report including: organization, principal, products air-raid precautions, bomb damage.
- (71) Ministerial reports on the nonferrous metal industry:
- (a) Nonferrous producing facilities owned or operated by the Navy.
  - (b) Distribution of lead, zinc, and tin scrap.
  - (c) Air attacks on light metals plants.
  - (d) Record of light metals used by the Navy Air Force.
  - (e) Inventory of light metal stocks in Japan—Navy.
  - (f) Outline of the Light Metals Industry Control.
  - (g) Inventory of Army light metals.
  - (h) Outline of government agencies interested in light metals.
  - (i) Inventory of scrap metals.
  - (j) List of Army members in the Light Metals Association.
  - (k) Nonferrous producing plants operated by the Army.
  - (l) Consumption of mercury by the Army.
- (72) Japanese aeronautical specifications for nonferrous metals:
- \* (a) Two Japanese Technical Institute booklets (Japanese).
  - (b) Translation of the booklets.

----- [USB-13 Roll No. 237] -----

- (73) Photographs of nonferrous metal plants.
- (74) Drafts, revisions, and corrected copies of the appendix tables, the summary report, and basic materials report.
- (75) Output of smelters and refiners:
  - (a) Tungsten.
  - (b) Molybdenum.
  - (c) Manganese.
  - (d) Chromite.

- (e) Nickel and cobalt.
  - (76) Production of the major mines by island and by year:
    - (a) Manganese,  $MnO_2$ .
    - (b) Chromium,  $Cr_2O_2$ .
    - (c) Molybdenum,  $MoS_2$ .
    - (d) Tungsten,  $WO_3$ .
    - (e) Nickel, Ni.
    - (f) Cobalt, Co.
    - (g) Silicon, SiO.
  - (77) Coal—Mitsui Mining Company, Ltd. (with subsidiaries):
    - (a) Draft of over-all statistical report covering materials and electricity consumed with brief analysis of production.
    - (b) Figures on employment and production with maps of mining area.
    - (c) Map showing air-raid damage to Miyanoura pit.
    - (d) Evaluation of air-raid damages to subsidiary mines.
    - (e) Figures on production of subsidiary mines.
    - (f) Map of Miike Mine with list of submerged machines,
    - (g) Map of air-raid damage to Omuta area.
    - (h) Notes.
37. The Japanese Construction Industry (final report and original draft).
- a. Summary and conclusion:
    - (1) Preliminary draft of final report on construction.
    - (2) Work sheets on bibliography and indices.
    - (3) Work sheets pertaining to final report.
    - (4) Work sheets pertaining to tables and appendixes contained in report.
    - (5) Essay on the actual conditions of Japan's construction industry during wartime.
  - b. Organization:
    - (1) Organization of government agencies exercising economic control.
    - (2) Organization of Kanto-Shinetsu branch of Wartime Construction Association (Japanese).
    - (3) Report on Japanese Civil Engineering and Architectural Control Association (1943-45) (Japanese original and translation).
    - (4) Report on post-war Civil Engineering and Architectural Trade Association organization (Japanese original and translation).
    - (5) Rough notes on changing organization of Civil Engineering and Architectural

Association throughout the war.

----- [USB-13 Roll No. 237A] -----

- c.* Dispersal data:
  - (1) Draft of report on dispersal of industries and equipment.
  - (2) Work sheets and statistics pertaining to dispersal.
- d.* Information from other sections pertinent to capital construction:
  - (1) Memoranda for all divisions.
  - (2) Notes and work sheets.
- e.* Volume of construction:
  - (1) Construction volume and employment.
  - (2) Volume of Army construction.
  - (3) Statistics on volume of construction in Japan proper and of Navy construction.
- f.* Highway construction and maintenance:
  - (1) Tables showing expenditures for road improvements.
  - (2) Statistics on materials and money allotted for road improvement as compared to that for other industries.
- g.* Nonmilitary construction:
  - (1) Construction problems in Japan.
  - (2) Table showing construction commodities carried by railroads.
  - (3) Tables and work sheets on employment and materials consumption.
  - (4) Statistics on building permit applications.
  - (5) Information and statistics on volume of civilian construction (part Japanese).
  - (6) Listings and reports on various large construction firms (part Japanese).
  - (7) Statistics and work sheets on unit costs and types of units constructed.
  - (8) Interrogations.
- h.* Navy construction:
  - (1) Japanese naval supply organization.
  - (2) Diagram showing supply and distribution of materials (Japanese document and translation).
  - (3) Brief report on naval construction and expenditures for same (part Japanese).
  - (4) Statistics and information on employment and volume of naval construction.
  - (5) Japanese document and translation showing inventory of equipment.
  - (6) List of the most important ships and machines owned by the ports and harbors bureau.
  - (7) Interrogations and summaries of same pertaining to naval construction.
- i.* Army construction:

- (1) Description of construction (part Japanese).
- (2) Expenditures on Army construction.
- (3) Employment figures.
- (4) Volume of Army construction.
- (5) Related work sheets.

*j.* Repair of bomb damage to civilian defense:

- \* (1) Organization chart of air defenses (partially translated).
- (2) Personnel casualties and damage to buildings and equipment.
- (3) Report on repair of bomb damage.
- (4) Civilian defense measures.
- (5) Outline of public air-raid shelter construction (part Japanese).
- (6) Brief preliminary report on fireproofing (supported by Japanese documents).
- (7) Interrogations on repair of bomb damage.

----- [USB-13 Roll No. 238] -----

*k.* Lumber:

- (1) Report of lumber industry of Japan.
- (2) Information on production, consumption and distribution.
- \* (3) Figures on production and consumption.
- \* (4) Data on various uses of lumber in Japan.
- (5) Notes.

*l.* Cement:

- (1) General view of the cement industry in Japan.
- \* (2) Construction statistics from the Cement Control Association (part Japanese).
- (3) List of cement plants and statistics on each plant.
- (4) Work sheets.

*m.* Steel:

- (1) General report on steel.
- (2) Statistics on production, distribution and consumption.
- \* (3) Table showing allocation and use of essential materials from 1931 to 1945.
- (4) Interrogation.
- (5) Notes and work sheets.

*n.* Labor:

- (1) General report on labor.
- (2) Information and statistics on construction employment.
- (3) Statistics on labor used on civilian construction.
- \* (4) Statistics pertaining to labor used on military construction jobs (part

- Japanese).
- (5) Notes and work sheets.
- o.* Construction equipment:
- (1) Brief report on construction materials and equipment.
  - (2) Statistics on production of various types of equipment.
  - \* (3) Inventories of equipment owned by Army, Navy, railroads, government and railroads (part Japanese).
  - \* (4) List of manufacturers of construction equipment and information on each (Japanese with translation).
- p.* Japanese construction trade publications:
- (1) Four magazines.
  - (2) Two papers.
- q.* Illustrated magazines and folders on Hitachi Company:
- (1) General description of factory with area plan.
  - \* (2) Publications and catalogues on heavy industrial machinery (part Japanese).
  - (3) Photographs with descriptions and specifications on plant equipment.
- r.* Laws controlling use of materials:
- (1) Outline of the organizational control over public works and building crafts (Japanese document and translation).
  - (2) Report on indirect controls governing materials and construction.
  - \* (3) Laws restricting use of building materials (Japanese documents and translations).
- s.* FCC intercepts on construction industry:
- (1) Extracts on construction and building materials from "Handbook of Industries in Japan."
- t.* Interrogations:
- (1) Interrogation No. 7, subject: Population control and statistics.
  - (2) Interrogation No. 8, subject: Population control and statistics.
  - (3) Interrogation No. 10, subject: General.
  - (4) Interrogation No. 13, subject: Manpower.
  - (5) Interrogation No. 14, subject: Manpower (students).
  - (6) Interrogation No. 16, subject: Iron and steel control organizations.
  - (7) Interrogation No. 38, subject: Iron and steel allocating and distributing agencies.
  - (8) Interrogation No. 42, subject: Library facilities and publications of Mitsubishi Economic Research Bureau, Tokyo.



- (9) Interrogation No. 59, subject: Post-raid clearance and repairs.
  - (10) Interrogation No. 70, subject: Iron and steel.
  - (11) Interrogation No. 76, subject: Army construction section.
  - (12) Interrogation No. 77, subject: Construction industry.
  - (13) Interrogation No. 79, subject: Hazama Gumi Construction Company.
  - (14) Interrogation No. 87, subject: Construction Industry Control Association.
  - (15) Interrogation No. 95, subject: Construction Control Association.
  - (16) Interrogation No. 105, subject: Air-raid protection in Tokyo.
  - (17) Interrogation No. 111, subject: Iron and steel.
  - (18) Interrogation No. 115, subject: Civilian defense in Japan.
  - (19) Interrogation No. 118, subject: Civilian defense during Suzuki cabinet, April to August 1945.
  - (20) Interrogation No. 122, subject: Miscellaneous information.
  - (21) Interrogation No. 141, subject: Lumber industry.
  - (22) Interrogation No. 151, subject: Army sub-allocations of steel.
  - (23) Interrogation No. 152, subject: Manchurian light and nonferrous metals.
  - (24) Interrogation No. 207, subject: Inspection of Nishitama plant.
  - (25) Interrogation No. 212, subject: Statistics on construction industry in general.
  - (26) Interrogation No. 213, subject: Structural steel.
  - (27) Interrogation No. 254, subject: Japanese food supply and nutrition.
  - (28) Interrogation No. 265, subject: Japan lumber production and distribution.
  - (29) Interrogation No. 326, subject: Aluminous clinker-production.
  - (30) Interrogation No. 327, subject: Magnesium production.
  - (31) Interrogation No. 328, subject: Bomb damage repairs to factories.
  - (32) Interrogation No. 333, subject: Control of lumber in Japan.
  - (33) Interrogation No. 361, subject: Contractors' wartime problems.
  - (34) Interrogation No. 370, subject: Construction work in Japan.
  - (35) Interrogation No. 393, subject: Construction—general information.
  - (36) Interrogation No. 471, subject: Japanese air-fields.
  - (37) Interrogation work sheets.
  - (38) Memoranda.
- u. Questionnaires.
  - v. Prints and photostats.
38. Japanese Electrical Equipment (final report and original draft).
- a. The Furukawa Electric Company, Ltd.:
    - (1) Answers to questionnaire for companies manufacturing electrical apparatus

and machinery (part Japanese).

*b.* The Fuji Electric Manufacturing Company, Ltd.:

- (1) Answer to questionnaire for companies manufacturing electrical apparatus and machinery (duplicate).

----- [USB-13 Roll No. 238A] -----

*c.* The Dainichi Electric Wire and Cable Company, Ltd.:

- (1) Answers to questionnaire for companies manufacturing electrical apparatus and machinery.

\* (2) Plot plan.

*d.* Hitachi Electrical Equipment Corporation (consisting of two envelopes):

- (1) Report of the Kitsugawa plant.
- (2) Report of the Amagasaki plant.
- (3) Report of the Setsu plant.
- (4) Report of the Hitachi plant.
- (5) Report of the Mito plant.
- (6) Report of the Tobata plant.
- (7) Production records of the Totsuka works.

(8) USSBS—war loss.

\* (9) Japanese—war loss.

(10) USSBS—questionnaire.

(11) Report of the Kitsugawa plant.

(12) Report of the Yosugi plant.

\* (13) Bomb plot of the Kaigan works.

(14) Bomb plot of the Densen Kogyo works.

(15) Layout of the Setsu plant.

(16) Bomb plot of the Kitsukawa plant.

(17) Japanese plot plans.

(18) Report of the Kasado Works.

(19) USSBS—questionnaire.

(20) Reports of the Kameido, Shimizu, Hitachi, and Wakamatsu plants.

(21) Report of the Taga plant.

----- [USB-13 Roll No. 239] -----

*i.* Mobara Works, Hitachi, Ltd.:

- (1) Answers to questionnaire for companies manufacturing electrical apparatus and machinery.

\* (2) General description of the controlling company (part Japanese).

(3) Plot plans.

----- [USB-13 Roll Nos. 239-239A] -----

*f.* Matsushita Electric Industrial Company, Ltd. (Consisting of four envelopes):

(1) Answer to questionnaire.

----- [USB-13 Roll No. 239A] -----

*g.* Meidensha Company, Ltd.

(1) Reply to questionnaire.

*h.* Mitsubishi Electric Manufacturing Company.

(1) Brief outline of Setagaya factory.

(2) Brief outline of Mitsubishi Factory.

(3) Reply to questionnaire for companies manufacturing electrical apparatus and machinery (Itami works)

(4) Reply to questionnaire for companies manufacturing electrical apparatus and machinery (Nagasaki).

(5) Reply to questionnaire (Kobe Works).

(6) Reply to questionnaire (Nagoya Works).

(7) Brief outline of Ofuna plant.

(8) Plot diagrams and bomb plots.

*i.* Sumitomo Tsushin Kogyo Kabushiki:

(1) Reply to questionnaire.

(2) Plot plans.

\* (3) Production and labor data (part Japanese).

*j.* Sumitomo Electric Industries, Ltd.:

(1) Reply to questionnaire.

\* (2) Plot plans and flow diagrams (part Japanese).

*k.* Shimadzu Seisakusho, Ltd.:

(1) Reply to questionnaire.

\* (2) Plot plans (part Japanese).

*l.* Oki Electric Company, Ltd.:

(1) Reply to questionnaire.

\* (2) Bomb plot and plot diagrams (part Japanese).

----- [USB-13 Roll No. 240] -----

*m.* Nihon Musen Kabushiki Kaisha:

(1) Reply to questionnaire.

\* (2) Plot plans (part Japanese).

*n.* Nippon Storage Battery Company, Ltd.:

- (1) Reply to questionnaire for companies manufacturing electrical apparatus and machinery.
  - (2) Plot plans.
- o.* Production data of electrical equipment for Navy Air Forces:
- (1) Annual production of aircraft electrical equipment for the Navy.
  - (2) Monthly planned and actual production.
- p.* Production data of electrical equipment for use of Navy Surface Forces.
- (1) Report of radio, radar, and electrical equipment.
- q.* Production data-general:
- (1) Production by main products.
  - (2) Production of leading electrical equipment manufacturers.
  - (3) Production graphs and charts.
- r.* Electrical machinery and communications equipment manufacture:
- (1) List of members of the electric machinery manufacturers, association—arranged by district.
  - (2) Detailed report of units and value of units produced by the Nippon Musen Company for armed forces.
  - (3) Over-all production data.
  - (4) Price lists for standard products and raw materials.
  - (5) Report on allocations of materials and damage to facilities.
  - (6) General summary of electric wire and cable works.
  - (7) Report on capacity of vacuum tube makers.
  - (8) Statistical data of wiring accessories and illuminating equipment.
  - \* (9) Report on electric bulb industry.
  - (10) Employment data.
  - (11) Report of the electric lamp industry.
- s.* The Shibaura Engineering Works:
- (1) Reply to questionnaire—Showa Electric Wire and Cable Company.
  - (2) Reply to questionnaire—Shibaura engineering works.
  - (3) Reply to questionnaire—The Tokyo Nakajima Electric Company.
  - (4) Reply to questionnaire—The Nitchiku Industrial Company. Ltd. [日蓄工業]
  - (5) Reply to questionnaire—The Toshiba Car Company. Ltd.
  - (6) Reply to questionnaire—Nippon Denko Company, Ltd.
  - (7) Reply to questionnaire—Nippon Onkyo Kabushiki Kaisha.
  - (8) Reply to questionnaire—Shibaura United Engineering Company.
  - (9) Reply to questionnaire—Toshiba Conduit Tube Manufacturing Company, Ltd.

*t.* Tokyo-Shibaura Electric Company, Ltd. (consisting of two envelopes):

- (1) Over-all report on the company.
- (2) Report on Kewasaki works.
- (3) Report on the Tsurumi works, Kyomachi works, Fuchu works, and Kanasugi works.

----- [USB-13 Roll No. 240A] -----

- (4) Report on the Yobe works.
- (5) Report on the Ohi works.
- (6) Report on the Komukai works.
- (7) Report on Nagai works.
- (8) Report on Toriimatsu works.
- (9) Report on Ohmiyacho works.
- (10) Report on Adachi steel works.
- (11) Report on Fujimi-cho works.
- (12) Report on Yanagimachi works.
- (13) Report on Aboshi works.
- (14) Report on Oshiki works.
- (15) Report on Matsukawa works.
- (16) Report on Kobe works. ,
- (17) Report on Mie works.
- (18) Report on Ohhito works.
- (19) Report on Kamo works.
- (20) Report on Kawagishi works.
- (21) Report on Osaka works.
- (22) Report on Fuji works.
- (23) Notes and work sheets.
- (24) Bomb plots.
- (25) Reply to questionnaire—Sunamachi works.
- (26) Reply to questionnaire—Tsukagoshi works.
- (27) Reply to questionnaire—Shibaura Machine Company, Ltd.
- (28) Reply to questionnaire—The Tondabayashi works.
- (29) Notes and work sheets.

*u.* Technological developments

*v.* Data from ministry of commerce and industry:

- \* (1) Production data (part Japanese).
- \* (2) Employment data (part Japanese).

\* (3) Use of raw materials (part Japanese).

w. Interrogations:

- (1) Interrogation No. 18, subject: Electrical Equipment Control Association.
- (2) Interrogation No. 20, subject: Outline of precision tools.
- (3) Interrogation No. 21, subject: Government control over production of machinery other than machine tools.
- (4) Interrogation No. 22, subject: Electrical Equipment Control association.
- (5) Interrogation No. 25, subject: Tokyo-Shibaura Electric Company.
- (6) Interrogation No. 26, subject: Electrical Equipment Control Association.
- (7) Interrogation No. 27, subject: Capital equipment, production statistics.
- (8) Interrogation No. 36, subject: Interrogation of Metal Industries Control Association.
- (9) Interrogation No. 43, subject: Sumitomo Tsushin Kogyo.
- (10) Interrogation No. 58, subject: Interrogation at Mitsubishi Electric Company.
- (11) Interrogation No. 60, subject: Head Office of Karatsu iron works, producers of machine tools.
- (12) Interrogation No. 88, subject: Production of machinery.
- (13) Interrogation No. 105, subject: Organization of Mitsubishi Corporation.
- (14) Interrogation No. 119, subject: Plant visit to Mitsubishi Electric Company, Ltd., Kobe.
- (15) Interrogation No. 120, subject: Plant visit to Mitsubishi Heavy Industries Company, Ltd., Kobe.
- (16) Interrogation No. 121, subject: Control associations.
- (17) Interrogation No. 124, subject: Industrial statistics.
- (18) Interrogation No. 142, subject: Kawasaki Heavy Industries Company, Ltd.
- (19) Interrogation No. 143, subject: Nippon Musen Denki K. K.
- (20) Interrogation No. 144, subject: Dai Nichi Electric Wire and Cable Company, Ltd.
- (21) Interrogation No. 145, subject: Japan Storage Battery Co., Ltd.
- (22) Interrogation No. 146, subject: Shimadzu Manufacturing Co., Ltd.
- (23) Interrogation No. 147, subject: Mitsubishi Electric Company, Ltd., at Itami.
- (24) Interrogation No. 189, subject: Fuji Denki Seizo Company.
- (25) Interrogation No. 190, subject: National inventory of machine tools and machinery.
- (26) Interrogation No. 191, subject: Kawasaki plant, Tokyo Shibaura Electric Company.

- (27) Interrogation No. 298, subject: Electric industry—Mitsubishi Electric Company.
- (28) Interrogation No. 315, subject: Hitachi, Ltd.
- (29) Interrogation No. 339, subject: Tokyo-Shibaaura Company.
- (30) Interrogation No. 340, subject: Furukawa Electric Company.
- (31) Interrogation No. 348, subject: Fuji Electric Company.
- (32) Interrogation No. 399, subject: Navy Industrial Association.
- (33) Work sheet pertaining to interrogations.

x. Miscellaneous material:

- (1) Notes and work sheets.

----- [USB-13 Roll Nos. 240A-241] -----

y. Microfilm and samples of electrical equipment.

----- [USB-13 Roll No. 242] -----

39. The Japanese Machine Building Industry (final report and original draft).

a. Tsugami—Nagaoka and Nakogome plant:

- (1) Operations report.
- (2) Index for plant lay-out.
- (3) Plant lay-out.
- (4) Company officials interview.
- (5) Production report.
- (6) Machine tool production Records.

b. Niigata iron works, Niigata plant.

- (1) Machine tool production records.
- (2) Air attack data—Tsukishima factory.
- (3) Air attack data—Kamoda factory.
- (4) Department of Justice report.
- (5) Questionnaire—Tsukishima.
- (6) Questionnaire—Kamoda.
- (7) Company report.
- (8) USSBS report.
- (9) USSBS summary report—Nagaoka and Zao plants.
- (10) Zao plant report.
- (11) Nagaoka plant report.
- (12) Plant lay-out blueprints.
- (13) Company operating report and inventory record, Kashiwasaki plant.
- (14) USSBS—notes on the interview of Mr. Norimatsu.

- (15) Bomb damage plot plan, Kashiwasaki plant.
  - (16) Graphs of production, inventories, turn-over of employees, and value of the plant operations, Kashiwasaki plant.
  - (17) Comprehensive report by the Kamo plant officials about the plant and its operations.
  - (18) Company report, Sanjo plant.
  - (19) Plant lay-out blueprint, Sanjo plant.
  - (20) Company report, Kakizaki plant.
- c.* Kurashiki Industrial Company. Horinouchi and Nagaoka plants:
- (1) Company report Horinouchi plant.
  - (2) USSBS—summary report.
  - (3) Company report—Nagaoka plant.
  - (4) USSBS—questionnaire data.
  - (5) Plant lay-out plans—Nagaoka plant.
  - (6) Plant lay-out plans—Horinouchi plant.
- d.* Kojima Iron Works, Takasaki plant.
- (1) Company report.
  - (2) Plant lay-out plans.
  - (3) Plant production data.
  - (4) Plant inventory.
- e.* Shimamoto iron works, Niigata plant:
- (1) Plant report.
- f.* Riken Industrial Corporation:
- (1) Plant report.
  - (2) Interview—director of Maebashi plant.
  - (3) Plant inventories.
  - (4) Plant layout.
  - (5) Graphs.
  - (6) List of purchased raw materials.
  - (7) Plant description and plans of the Miyauchi factory.
  - (8) List of production, Kakizaka factory.
  - (9) General description, production data, and plan plans of the Kashiwazaki factory.
- g.* Oohara Tekkojo, Ltd, Nagaoka:
- (1) USSBS report.
  - (2) Plan of dispersion tunnel.



- (3) Plot plan of plant.
- (4) Company report.
- (5) Plant inventory.
- (6) Plan of machine tool set-up.
- h.* Ebara Manufacturing Company, Kawasaki plant:
  - (1) Company report.
  - (2) USSBS questionnaire.
  - (3) Production record.
  - \* (4) Plot plan of plant (part Japanese).
  - \* (5) Bomb plot (part Japanese).
  - \* (6) Company report (part Japanese).
- i.* Mitsui Machine Tool Company, Okegawa:
  - (1) Department of Justice report.
  - (2) Answer to USSBS questionnaire.
  - (3) Plot plan of factory.
  - (4) Graphs of production and operating records.
  - (5) Interrogations.
- j.* Osaka Machinery Company, Nagaoka plants:
  - (1) USSBS interrogations.
  - (2) Company report.
  - (3) USSBS summary report.
  - (4) Japanese report based on USSBS questions.

----- [USB-13 Roll No. 242A] -----

- k.* Machine tool questionnaire:
  - (1) Tsukishima Kikai.
  - (2) Dai Nippon Heiki.
  - (3) Okamoto Machine Tool works.
  - (4) Mitsui Shipbuilding Tamano works.
  - (5) Ishi Iron Works Company.
  - (6) Shinagawa Seiki.
  - (7) Yokoyama Kogyo.
  - (8) Kyoto Kosaku Kikai.
  - (9) Hitachi Zosen KK.
  - (10) Kubota Seikosho.
  - (11) Kubota Tekkosho.
- l.* Mitsubishi Heavy Industries, Ltd.:

- (1) List of shipbuilding and manufacturing facilities
  - (2) Production equipment.
  - (3) Annual production of machinery of land use for civil purpose.
  - (4) Reply to questionnaire—Mitsubishi Yokohama shipyard and engine works.
  - (5) Reply to questionnaire—Mitsubishi Nagasaki shipyard and engine works.
  - (6) Reply to questionnaire—Mitsubishi Hiroshima engine works.
  - (7) Reply to questionnaire—Kobe shipyard and engine works.
  - (8) Principal manufacturers.
  - (9) Reply to questionnaire—Shimonoseki shipyard and engine works.
  - (10) Bomb plots.
  - (11) Letter of transmittal for questionnaire.
  - (12) Information regarding the four machine tool plans of Mitsubishi Heavy Industries.
- m.* Mitsubishi Chemical Machinery Manufacturing Company, Ltd.:
- (1) Reply to questionnaire.
  - (2) Questionnaire work sheets.
  - (3) Report on Mitsubishi Kakoki Company, Ltd.
- n.* Matsushita Metal Company Ltd.:
- (1) Reply to questionnaire—Osaka.
  - (2) Supplementary information on machine tools and machinery production in Japan.
  - (3) Notes and work sheets.
- o.* Hitachi Machinery Company, Ltd.:
- (1) Reply to questionnaire.
  - (2) Reply to questionnaire—Kawasaki works.
  - (3) Plant statistical reports.
  - (4) Production data.
  - (5) Letters of transmittal pertaining to questionnaires.
  - (6) Employment data.
  - (7) Notes and work sheets.
  - (8) Factory diagrams.
- p.* Karatsu iron works.
- (1) Reply to questionnaire.
  - (2) Information obtained from head bookkeeper of the factory.
- q.* The Howa Machine Tool Manufacturing Company, Ltd.:
- (1) Production data.

- (2) Notes and work-sheets.
- r. The Daido Machinery Works. Ltd.:
  - (1) Reply to questionnaire.
- s. Ogaki iron works:
  - (1) Notes and work sheets..
- t. Okuma iron works:
  - (1) Notes and work sheets.
  - (2) Production data.
  - (3) Inventory and employment data.
- u. Washino Machine Tool Manufacturing and Trading Company Ltd.:
  - (1) Reply to questionnaire—Nagoya works.
  - (2) Reply to questionnaire—Imamura works.
  - (3) Reply to questionnaire—Narumi works. ,
  - (4) Notes and work sheets.
- v. Tokyo Machinery Company:
  - (1) Reply to questionnaire—Tamagawa, Mita, and Kamata plants.
  - (2) Production and employment data.
  - (3) Notes and work sheets.
  - (4) Plot plan.
- w. Osaka Koki, Ltd:
  - (1) Reply to questionnaire.
  - (2) Notes and work sheets,
- x. Otani Jukogyo and Company, Ltd.:
  - (1) Reply to questionnaire.
  - (2) Report on Osaka machinery submitted by the Foreign Economic Administration, Department of Justice.
  - (3) Notes and work sheets.
- y. Machine building questionnaire:
  - (1) Nakagawa Kikai.
  - (2) Kobe Seikosho.
  - (3) Dai Nihon Koki.
  - (4) Shoun Kosaku.
  - (5) Osaka Seisa Zoki.
  - (6) Nomura Company.
  - (7) Sumitomo.
- z. Shibaura United:

- (1) Company report,
  - (2) Turbine company report.
  - (3) USSBS questionnaire.
  - (4) Air-raid data.
  - \* (5) Production report (part Japanese).
- aa.* Komatsu Seisakusho, Ltd.:
- (1) Reply to questionnaire..
- bb.* Ishikawajima Heavy Industries Company, Ltd.:
- (1) Reply to questionnaire.
- cc.* Mitsui Mining Company, Ltd.:
- (1) Reply to questionnaire.
- dd.* The Ikegai engineering works:
- (1) Reply to questionnaire.
- ee.* Kurimoto Tekkosho:
- (1) USSBS questionnaire.
  - (2) Production graphs.
  - \* (3) Plot plans (part Japanese).
  - (4) Japanese report.
  - (5) USSBS summary.
- [USB-13 Roll No. 242B] -----
- ff.* History and government controls:
- (1) Report on the Japanese machine-tool industry, its history and development.
  - (2) Report on Japanese machine-tools industry.
  - (3) Chart illustrating organization of machine tool controlling system.
  - (4) Write-up and figures on machine tools production.
  - (5) Organization chart of the Precision Machine Control Association.
  - (6) Information on allocation of materials for machine tool production.
  - (7) Charts showing organization of system for distribution of steel, carbide, coal, and coke.
  - (8) Calendar of events which occurred during the war.
  - (9) Interrogations.
  - (10) Notes and preliminary drafts of related material.
- gg.* Inventory of machine tools and machinery:
- (1) Charts and statistics on over-all inventory of machinery in Japan.
  - \* (2) Inventory of machine tools in aircraft plants (part Japanese).
  - (3) Inventory of machine tools in government railway repair shops.

- (4) Inventory of machinery of textile industry.
- (5) Inventory of construction equipment.
- (6) Comparison of number of machine tools ordered to number produced 1938-1945.
- (7) Number of machines set to produce each type of armament at end of war.
- (8) Figures on inventory of Army tools and machinery.
- (9) Figures on inventory of Navy tools and machinery.
- (10) Interrogations relating to machine tool inventory.

*hh.* Demand and capacity:

- (1) Figures for demand of machine tools.
- \* (2) Photostats of charts showing production capacity of machine tool plants (Part Japanese).
- (3) Chart showing comparison of demand, capacity, and result of machine tool manufacture.
- (4) Work sheets.

*ii.* Status of machine tool and production machinery industry and diversion of capacity and expansion:

- (1) Draft of summary of the industrial machinery control association.
- (2) Draft of report on subcontracting.
- (3) Draft of report on development of machine tool plants and their dispersal.
- (4) List of companies, equipment, employment, and floor space of factories with detailed statistics pertaining to same.
- (5) Data on diversion of tool industry and information by year on the various individual plants.
- \* (6) Japanese chart showing reorganization of machine industry.
- (7) Chart showing number of members of Precision Machine Control Association.
- (8) Chart showing planned and actual capacity of machine tool output.
- (9) Figures by year on distribution of Japanese machine tools.

----- [USB-13 Roll No. 243] -----

*jj.* Over-all production of machine tools:

- \* (1) Charts showing demand, production and supply of various machine tools (part Japanese).
- \* (2) Graphs showing fluctuations in demand, production, and prices of machine tools (part Japanese).
- \* (3) Japanese documents showing production figures.
- (4) Table showing reason of failure in planning execution about machine-tool

production and its percentages.

*kk.* Production of machines other than machine tools:

- (1) Data about woodworking tools.
- \* (2) Japanese document showing production in yen of other machines.
- (3) Yearly production records on other small machines.
- (4) Labor statistics on production.
- \* (5) Japanese document with translation showing emphasis on special types of machines at various periods.

*ll.* Raw materials:

- (1) Planned allocation of raw materials for machine tools.
- (2) Chart showing figures for raw materials used for capital equipment industry.
- (3) Statistics on ordinary steel for machine-tool industry.
- (4) Allocations of coal, coke, and carbide for precision-machine industry.
- (5) Data on materials furnished by Army.
- (6) Data on yearly amount of raw materials supplied by the Navy.

*mm.* Shortages:

- (1) Shortages of special machines which the Army and Navy were unable to obtain.
- (2) Outline of machines which were not obtained in sufficient quantities.
- (3) Report on machinery for emergency demand

*nn.* Labor:

- (1) Working hours and shift system for most of machine-tool industry.
- (2) Information on skills of workers in various plants.
- (3) List showing laborers' number in all machine-tool makers.
- (4) Chart showing number of factories, employment, and labor conditions of capital equipment.
- \* (5) Charts and statistics on employment numbers in machine-tool industry (part Japanese).

*oo.* Planned and actual distribution of machine tools to users:

- (1) Plans of machine-tool distribution.
- (2) Figures on ratio of allocations of machines and parts to Army, Navy, and civilian users.
- (3) Table and explanation of table of the quantities of allocated materials.
- (4) Chart of tracks allocated to a munition mobilization organization.

*pp.* Exports and imports:

- \* (1) Listing of exports and imports of automobiles, bicycles, machine tools, and

parts by country (part Japanese).

- (2) Other charts and data on export-import trade of machinery from various sources.
- (3) Notes and work sheets pertaining to above.

*qq.* Air-raid damage:

- \* (1) Ministry of industry and commerce photostats showing damage to productive capacity of machine-tool industry.
- (2) Location maps showing joint target groups.
- (3) G-2 report showing types of installations and various phases of damage.
- (4) List of damages to machine-tool makers in main cities.
- (5) Interrogation on subject of bombing at Nagasaki.

*rr.* Machine-tool and machinery plants:

- \* (1) Notes, work sheets and miscellaneous data (part Japanese).
- (2) Locator cards showing machine-tool and machinery plants investigated.

*ss.* Precision Machinery Repair Company, Ltd. (consisting of 2 envelopes):

- (1) Four typed copies of report on present status of work in the Machine Tool Maintenance Company, Ltd.
- (2) Photostats of Japanese documents.
- (3) First, second, and third period business reports on Precision Tool Maintenance Corporation (Japanese document and translation).
- (4) Photostat copy of Japanese document, report of business condition.
- (5) Microfilm of Japanese document (one small roll).

*tt.* Bearing industry:

- \* (1) Japanese catalog of bearings.
- (2) Report on the antifriction-bearings industry of Japan.
- (3) Summary data on Japanese ball-bearing industry.
- (4) Target data.
- (5) Production figures,
- \* (6) Information, charts, and statistics on Tokyo bearing plants (part Japanese).
- (7) Information on machine-tool factories in Osaka area.
- (8) Data on Koyo Seiko bearing plant.
- (9) Data on Asahi-Seiko bearing plant.
- (10) Data on Nihon-Seiko Company.
- (11) Data on Fuji Koshi Kozai bearing plant.
- (12) Notes.

*uu.* Abrasives industry:

- (1) General report and data on artificial abrasives.
  - \* (2) Statistics on Abrasive Factories Investigated Capital (Japanese).
  - (3) List of abrasive plants and air-raid damage.
  - (4) Interrogations.
  - (5) Notes and work sheets.
- vv.* Duplicates of Japanese statistics:
- (1) Typed copy of report on allocation of materials for machinery during the war and functions of the Machinery Control Association.
  - (2) Information regarding machine tools and machinery production.
  - \* (3) Production data (part Japanese).
  - (4) Report on Karatsu iron works.
  - (5) Report on Mitsubishi Chemical Machinery Manufacturing Co., Ltd.
  - \* (6) Bomb plot of Kobe shipyard and engine works (part Japanese).
- [USB-13 Roll Nos. 243-243A] -----
- (7) Data on Riken Industrial Corporation.
- [USB-13 Roll No. 243A] -----
- (8) Replies to questionnaires sent to various plants.
  - (9) Outline of and brief report on Japanese machine-building industry.
  - (10) Names of war damaged factories and damage conditions.
  - (11) Figures on production and consumption of machine tools.
  - \* (12) Notes and work sheets (part Japanese).
- ww.* Preliminary drafts and calculations:
- (1) Working copies of various reports on the industry.
  - (2) Preliminary copies of tables.
- xx.* Preliminary charts and graphs:
- (1) Charts of various subjects used in gathering report material.
  - (2) Working copies of graphs and diagrams.
- [USB-13 Roll No. 243B] -----
- yy.* Catalogs and instructions relating to Japanese machine tools, parts and equipment:
- zz.* Source material (two envelopes).
- (1) Machine tool manufacturers.
  - (2) Production machinery manufacturer.
  - \* (3) Raw material allocation.
  - \* (4) Machine tool production graphs.
  - (5) Business results of companies of capital equipment industry.



- (6) Information published by the Department of Justice pertaining to Japanese high-speed drill industry.
- (7) Information published by the Department of Justice re: Report on Manchukuo machine tool industry.
- (8) Notes and work sheets.
- \*(9) List. of machinery for emergency demand.
- (10) Consumption of machine tools by Army.
- (11) Inventory of construction equipment.
- (12) List of machines which were difficult to obtain.
- (13) List of industrial machine makers (Army).
- (14) List of machine tool manufacturing plants (Army).
- (15) List of electric machine makers (Army).
- (16) Allocation of forging machinery and bearings.
- ( 17) Production figures and decrease and loss of production due to air raids and other causes.
- (18) Notes and work sheets.
- \*(19) Classification of production machinery by control association.

*aaa.* Interrogations:

- (1) Interrogation No. 19, subject: Control Association for Precision Tools.
- (2) Interrogation No. 215, subject: Kobe shipyard and engine works.
- (3) Duplicate copies and works sheets for interrogations.

*bbb.* Fukoku Life Insurance Company (two Vols.):

- \*(1) Construction plans of the newly constructed branch building, Book I.
- (2) Construction plans for the newly constructed branch building, Book II.

*ccc.* Bank of Japan. Tokyo, Japan:

- (1) Construction plans of Hiroshima branch office.

*ddd.* Organization of industrial bureau, ministry of commerce and industry:

- \*(1) Organization of machine bureau.
- \*(2) Brief history of industrial machine.
- \*(3) Organization of general affair bureau of Precision Machine Control Board.
- \*(4) History of Electrical Machine Control Board.
- \*(5). Automobile Control Board.

*eee.* Mechanical text:

- \*(1) Machine construction and repair.

*fff.* Output of precision machinery parts, 1944.

----- [USB-13 Roll No. 244] -----

40. The Electric Power Industry of Japan (final report and original draft).

*a.* Final report data:

- (1) Preliminary draft of final report.
- (2) Draft of report on system operation in the war economy.
- (3) Analysis of damage to utility system from air raids.
- (4) Outlines and indexes pertaining to over-all picture of final report.
- (5) Preliminary summary report and conclusions.

*b.* Organization and function of electric power bureau:

- (1) Outline of the organization, administration and finance of the Japanese electric power industry.
- (2) Organization of Electric Power Bureau.
- (3) Excerpts from Japanese Yearbook 1938-39 concerning the electric power industry.
- (4) Agenda of meetings of control board.
- (5) A statement toward the nationalization of the electric power enterprises.
- (6) Detailed balance sheets of assets and liabilities.
- (7) Information regarding annual reports from electric power companies.
- \*(8) Japanese document showing dispatch of officials (Japanese).
- (9) General status of distribution companies at the time of organization of board.
- (10) Management problems and procedures.

----- [USB-13 Roll No. 244A] -----

*c.* Causes and effects of the Five Year Power Plan:

- (1) The Five Year Electric Power Plan.
- (2) Daily averages of power generation (part Japanese).
- (3) Power generated—Government railroad.
- (4) Load record—Kanto Electric Company.
- (5) Load record—Kansai.
- (6) Power generated—Hassoden.
- (7) Percentage of completion of hydro and steam plants.
- (8) Hydro plants new or enlarged during the war.
- (9) Steam plants new or enlarged during the war.
- (10) Transmission lines strung during the war.

*,1.* Financial statement of Japanese electric industry.

- (1) Financial statements of various companies.
- (2) Report on electric power price control (photostat copy).
- (3) Statistics and tables on unit costs.

- (4) Information and figures on bonds and shares from the electric power industry.
  - \* (5) Japanese document with translation showing budget of Electric Power Bureau for 1945 (part Japanese).
- e.* Coal power plant operating statistics:
- (1) Monthly reports—Forms and report sheets.
  - (2) Monthly reports—1942 records.
  - (3) Monthly reports—1943 records.
  - (4) Monthly reports—1944 records.
  - (5) Monthly reports—1945 records.
- f.* Water storage—hydro-electric:
- (1) Water level—Lake Inawashiro.
  - (2) Water level—Miura Reservoir.
  - (3) Water level—Lake Biwa.
  - (4) Water level—Uryu Reservoir.
  - (5) Water level—Lake Tagawa.
  - (6) Water level—Lake Towada.
  - (7) Water level—Tateiwa Reservoir.
  - (8) Water level—Odomari Reservoir.
  - (9) Chart of capacity of Hatusoden reservoirs.
  - (10) Proposed dam construction.
  - (11) Reservoirs along the Kiso and Masuda Rivers.
  - (12) Power Reserves.
- g.* Data on electric power output and distribution:
- (1) List showing size and location of distribution substations.
  - (2) Charts and map showing primary substations.
  - (3) Basic electric power statistics.
  - (4) Report covering electric distribution control ordinance.
  - (5) Statement concerning generating and distributing companies by an anonymous Japanese.
  - (6) Figures on power house outputs.
  - (7) Figures showing comparison of coal consumed to amount of power produced.
- h.* Load curves for Japan:
- (1) Daily load curves of power generated—Shikoku.
  - (2) Daily load curves of power generated—Kyushu.
  - (3) Daily load curves of power generated—Honshu.
  - (4) Daily load curves of power generated—Hokkaido.

- (5) Monthly load curves of power generated—Shikoku.
- (6) Monthly load curves of power generated—Kyushu.
- (7) Monthly load curves of power generated—Honshu.
- (8) Monthly load curves of power generated—Shikoku.
- (9) Generating capacity—Japan.

*i.* Generating and transmission equipment:

- (1) Transmission and distribution facilities and equipment.
- (2) List of substations.
- (3) List of substations of over 30,000 KVA.
- (4) List of transmission resources.
- (5) List of power plants.
- (6) Electric generation resources.
- (7) List of main electric generators.
- (8) List of generators over 10,000 KW.
- (9) Index of hydro-electric plants.
- (10) Index of transmission lines.

*j.* Data on electric power consumption:

- (1) Statistics showing electric energy consumed by electric street railways.
- (2) Table showing electric energy consumed by government railway cars.
- (3) Report on electric power consumption control ordinance.
- (4) Electric Enterprise Law.
- (5) Summary of control methods used.
- (6) Report on the manner of fixing electric rates prior to 1939.
- \* (7) Report on merits and demerits of 50 and 60 cycle system of control (part Japanese).
- (8) Power consumption by years and by consumers.
- (9) Utilization of power in the political economy of Japan.
- (10) Statistics on power sales since 1939 and government subsidy.

----- [USB-13 Roll No. 245] -----

*k.* Power development—present and proposed:

- (1) Notes and statistics on Japanese power plants.
- (2) Chronological showing of growth and development.
- (3) Report on utilization of power in the political economy of Japan.
- (4) Table showing various manufacturers of machinery.
- (5) Report on present power demand future capacity (Japanese).
- (6) Figures on potential power resources development.

- (7) Listing of materials needed for reconstruction and expansion by various plants.
  - l.* Over-all report on steam power plants in Japan (Japanese).
  - m.* Bomb damages to the industry:
    - (1) Report by Colonel Davenport on the military aspects of the bombing of the electric power industry of the Japanese Home Islands.
    - (2) Report from Ministry of Commerce and Industry concerning reasons for termination of the war.
    - (3) Report on damage to industry as quoted from Nippon Times (clipping included).
    - (4) Maps and data showing special missions by Twentieth Air Force.
    - (5) Tables showing United States Navy Air Effort for February, March, and April of 1945.
  - n.* Over-all damage to electrical industry:
    - (1) Summary of air-raid damage (Japanese).
    - (2) Reports and evaluation on bomb damage.
  - o.* A-Bomb report:
    - (1) Brief report of atomic bomb blast on Nagasaki and Hiroshima.
    - (2) Preliminary draft on effect of the Atomic Bomb on electric power facilities.
  - p.* Interrogation summaries and work sheets.
  - q.* Work sheets for final report (consisting of nine envelopes).
    - (1) Photostat copy of Japanese report on steam plants (Copy No. 1).
    - (2) Photostat copy of Japanese report on steam plants (Copy No. 2).
    - (3) Photostat copy of Japanese report on steam plants (Copy No. 3).
    - (4) Graphs pertaining to report subjects.
    - (5) Maps used in compiling report.
    - (6) Tables and charts used in connection with report. ,
    - (7) Preliminary drafts of final report.
- [USB-13 Roll Nos. 245-245A] -----
- (8) Old pages and notes.
- [USB-13 Roll No. 245A] -----
- (9) Translations of original Japanese document.
  - (10) Translation of Japanese booklet on subject state control of electric power.
  - (11) Notes pertaining to substations.
  - (12) Field notes by Major R. L. Norton.
- [USB-13 Roll No. 246]-----

- r.* Water power plant operating statistics (consisting of eight envelopes):
- (1) Water power plant operating statistics January 1942-December 1942—Copy No. 1.
  - (2) Water power plant operating statistics January 1942-December 1942—Copy No. 2.
  - (3) Water power plant operating statistics January 1943-December 1943—Copy No. 1.
  - (4) Water power plant operating statistics January 1943-December 1943—Copy No. 2.
  - (5) Water power plant operating statistics January 1944-December 1944—Copy No. 1.
  - (6) Water power plant operating statistics January 1944-December 1944—Copy No. 2.
  - (7) Water power plant operating statistics January 1945-December 1945—Copy No. 1.
  - (8) Water power plant operating statistics January 1945-December 1945—Copy No. 2.

*s.* Maps of Hiroshima and Nagasaki:

- (1) Drawing of Hiroshima showing bomb "Zero" for A-bomb.
- (2) Drawing of Nagasaki showing bomb "Zero" for A-bomb.

*t.* Japanese maps of transmission system (consisting of three envelopes).

*u.* Maps (consisting of two envelopes).

*v.* Maps of electric power system:

- (1) Map of Japan divided into 50 and 60 cycle zones.
- (2) Maps of district supply areas.
- (3) Maps of power generating areas.
- (4) Power transmission lines.

*w.* Single line diagrams (consisting of three envelopes).

----- [USB-13 Roll No. 246A] -----

*x.* Japanese documents:

- (1) Handbook on laws relating to electric power (Japanese).
- (2) Japanese booklet pertaining to Haiden electric power.

----- [USB-13 Roll No. 247] -----

*y.* Maps of major power plant:

- (1) Principal power plants and transmission lines in Japan.
- (2) Major power plants in Osaka.

- (3) Major power plants and power equipment manufactures in Tokyo.
- z.* Electrology:
  - (1) Standard symbols for indoor wiring. June 1928, published by Japan Electro Technics Committee.
- 41. The Electric Power Industry of Japan (plant reports) (final report and original draft).
  - a.* Amagasaki steam power plant No. 1:
    - (1) Plant report (draft).
    - (2) Notes and work sheets.
    - (3) Target information.
    - (4) Plot plans.
    - (5) Map of Amagasaki.
    - (6) Schematic diagram showing arrangement of out-door substation.
  - b.* Amagasaki steam power plant No. 2:
    - (1) Plant report (draft).
    - (2) Schematic diagram of plant.
  - c.* East Amagasaki steam power plant:
    - (1) Plan report (draft).
    - (2) Notes and target information sheets.
    - (3) Plant diagram.
  - d.* Chubu Electric Supply Company:
    - (1) Draft of report covering company.
    - (2) Plans for reconstruction.
    - (3) Bomb damage.
  - e.* Furukawa Mining Company:
    - (1) Report covering power station (draft).
    - (2) Prints of damage with captions attached.
  - f.* Hassoden Kogyo Company:
    - (1) General report on plant covering articles of association, financial statement and balance sheet.
    - (2) Transcript of interrogation pertaining to the company.
    - (3) Single line diagrams of plant equipment and lay-out (part Japanese).
  - g.* Hida River hydro plants:
    - (1) Plant reports (draft).
    - (2) Notes and work sheets.
    - (3) Outline of the Seto power plant.

- (4) Report on Seto water power plant.
  - (5) Target information sheets.
  - (6) Graphs showing Load curve, Seto hydro plant.
  - (7) Graphs showing load curve, Kawabe hydro plant.
  - (8) Schematic diagram of Kawabe hydro plant.
  - (9) Diagram of Hida River plants.
  - (10) Available head of River Hida.
  - (11) Photo of Kawabe power plant.
  - (12) General information pertaining to Kawabe power station.
- h.* Japan Electric Generating and Transmission Company, Ltd.:
- (1) Organization chart.
  - (2) Tables showing bonds outstanding.
  - \* (3) Financial report for Period 1 April 1945 to 30 September 1945 (Japanese).
  - (4) Report concerning proposal to unify electric power companies.
  - \* (5) One line diagrams (part Japanese).
- i.* Kansai electric supply company's substations:
- (1) Plant report (draft).
  - (2) Notes and work sheets.
  - (3) Target information.
  - (4) Bomb damage.
- j.* Kanto Electric Supply Company, Ltd.:
- (1) Brief report on company's financial status.
  - (2) Tables showing securities, earnings and dividends.
  - \* (3) Japanese document showing lists of company bonds.
  - (4) General description of company.
  - (5) Bomb damage report.
  - (6) Inspection report on Hirai bridge cable crossing.
  - (7) Inspection report on main dispatching headquarters.
- k.* Kasugade steam power plant No. 1:
- (1) Plant reports (draft).
  - (2) Inventory of electric power equipment.
  - (3) Target information sheet.

----- [USB-13 Roll No. 247A] -----

- l.* Kasugade steam power plant No. 2:
- (1) Plant reports (draft).
  - (2) Notes and work sheets.



- (3) Inventory of electric power equipment.
  - \* (4) Diagram of warehouses.
  - (5) Target information sheets.
- m.* Senju steam power plant:
- (1) Plant reports (draft).
  - (2) Notes and work sheets.
  - (3) Target information sheets.
- n.* Kawasaki steam power plant:
- (1) Plant reports (draft).
  - (2) Notes and work sheets.
  - (3) Target information.
  - \* (4) Bomb damage (part Japanese).
- o.* Kawasaki substation:
- (1) Plant report draft).
  - \* (2) Plan of substation.
  - (3) Work sheets.
- p.* Kiso River hydro power plants—general data:
- (1) Plant reports (draft).
  - (2) Power storage in reservoirs and regulating ponds.
  - (3) General view of the head of the plants on the Kiso River.
  - (4) Map showing hydro-electric plants.
  - (5) The electric power system of the Kiso River district.
- q.* Kiso River hydro power plants—Momoyama hydro power plant:
- (1) Report on water plant.
  - (2) Target information sheets.
  - \* (3) Plant diagram.
  - (4) Powerhouse lay-out.
  - (5) Graphs showing lay-out curve.
  - (6) Schematic diagram of plant.
  - \* (7) General plan of plant.
  - (8) Field notes.
- r.* Kiso River hydroplants—Nezame and Tokiwa hydroelectric plants:
- (1) Report on water plant.
  - (2) Map showing plants.
  - (3) Machine ratings.
  - \* (4) Schematic diagram of plant.

- \* (5) Vertical section diagram of water power plant.
  - \* (6) General plan of plant.
  - \* (7) Plant diagram.
  - (8) Graphs showing load curve.
  - (9) Notes and work sheets.
  - (10) Target information sheets.
  - (11) Photographs.
- s.* Kiso River hydroplants—Kaneyama water power plant:
- \* (1) General plant data (part Japanese).
  - (2) Notes and work sheets.
  - \* (3) Graphs showing load curve.
  - \* (4) Plan of plant.
  - (5) Target information sheet.
  - (6) Photographs.
- t.* Kiso River hydro power plants—Oi water power plant:
- (1) General plant data.
  - (2) Cross section diagram of plant.
  - (3) Skeleton diagram of plant.
  - \* (4) Plan of plant.
  - \* (5) Graphs showing daily water flow.
  - \* (6) General view of station.
  - (7) General arrangement of Ohi development.
  - (8) Side view and cross section of switching station.
  - (9) Target information sheets.
  - (10) Photograph.
- u.* Kiso River hydro power plants—Yomikaki water power plant:
- (1) General plant data.
  - (2) Charts showing generated output.
  - \* (3) Plant diagrams.
  - (4) Daily report on generated power.
  - \* (5) General plan of power plant.
  - (6) Target information sheets.
  - (7) Equipment name plates.
  - (8) Target information sheets.
  - (9) Photograph.
- v.* Electric power in Korea:

- (1) Report on electric power in the Japanese territorial economy.
  - (2) Map of Korea.
  - \* (3) Japanese Map showing electrical facilities of Formosa.
  - \* (4) Figures on demand, supply and consumption of power in Korea (part Japanese).
  - (5) Report and statistics on the Electric Power Corporation of Korea, Ltd.
  - (6) Various statistics and tables covering output of electricity and substations in Korea.
- w. Electric power in Manchuria (consisting of two envelopes).
- (1) Report on electric power in the Japanese territorial economy.
  - (2) Map of Manchuria and East Asia.
  - (3) Transmission chart in Manchuria.
  - (4) Photostatic copies of Japanese diagrams of electric-power system in Manchuria.
  - (5) Statistical survey of Manchuria Electric Company, Ltd.
  - (6) Notes.
- [USB-13 Roll No. 248] -----
- (7) Photostatic copy of report on specifications of hydraulic and electric equipment for Sungari power plant.
  - (8) Plans of plant shower lay-out, transmission lines and equipment for Sungari power plant:
- x. Mie substation:
- (1) Plant report (draft).
  - (2) Notes and work sheets.
  - \* (3) Diagram showing machine arrangement.
  - \* (4) Maps showing substation.
  - \* (5) Station plan and bomb plot.
  - \* (6) Diagram showing transmission lines.
  - (7) Damage assessment report.
  - (8) Photographs.
- y. The Meiko steam power plant:
- (1) Plant, reports (drafts).
  - (2) Notes and work sheets.
  - (3) Target information sheets,
  - \* (4) Plant efficiency record.
- t. Nagasaki steam electric station

- (1) Plant reports.
  - (2) Notes and work sheets.
  - (3) Index to administrative units for Nagasaki.
  - (4) Photographs.
- aa.* Nagoya steam power plant:
- (1) Plant report (draft).
  - (2) Notes and work sheets.
  - (3) Target information sheets.
  - (4) Plant diagrams.
  - (5) Map of Nagoya.
  - (6) List of property inspection.
  - \*(7) Plant efficiency record (part Japanese).
  - (8) Notes on Nagoya and vicinity by field team.
- bb.* Nagoya substations (consisting of two envelopes):
- (1) Plant report (draft).
  - \*(2) Diagram of transmission lines Nagoya.
  - \*(3) Diagram of substations.
  - (4) Notes and work sheets.
  - (5) Notes and work sheets—Nisshin substation.
  - \*(6) Blueprints of Nisshin substation—Nisshin substation.
  - (7) Photograph—Nisshin substation.
  - (8) Notes and work sheets—Rokugo substation.
  - (9) General plan of the station—Rokugo substation
  - (10) Notes and work sheets—Taiko substation.
  - \*(11) General plan of the station—Taiko substation
  - (12) Photograph—Taiko substation.
  - (13) Notes and work sheets—Iwakura substation.
  - \*(14) Bomb plot—Iwakura substation.
  - \*(15) Diagram showing interstation connections—Iwakura substation.
  - \*(16) Plant diagrams.
  - (17) Target information sheet.
  - (18) Photograph.
  - (19) Notes—Inuyama substation.
  - (20) Bomb damage report—Inuyama substation.
  - (21) Load curves of main transformer—Inuyama substation.
  - \*(22) Plant diagrams—Inuyama substation.

- (23) Target information sheet—Inuyama substation.
- cc.* Nippon Hassoden Electric Company:
- (1) List of consumers.
  - (2) Statistics on output.
  - (3) Bomb damage.
- dd.* Saka steam electric station:
- (1) Statistics on plant operation.
  - \* (2) Data on Saka steam electric station (part Japanese).
  - (3) Plot report.
  - (4) Plant report (draft).
  - (5) General description, of plant including photographs.
  - (6) Description of targets.
- ee.* Saku hydroelectric station:
- (1) Plant report (draft).
  - (2) Report on generation in KWH by month.
  - (3) Notes and work sheets.
  - (4) Rainfall discharge curve.
  - (5) Load curve.
  - (6) Target information sheets.
  - (7) Photograph.
- ff.* Shimotaki hydro power plant:
- (1) Plant reports (draft).
  - (2) Map of Shimotaki hydro plant.
  - (3) Target information sheets.
  - (4) Negatives.
- gg.* Shiojiri substation:
- (1) Plant report (draft).
  - (2) Plant outline.
  - (3) Load data.
  - (4) Copies of name plates.
  - (5) Daily and monthly output data and curves.
  - (6) Schematic diagram of transformer.
  - (7) Station diagrams.
  - (8) Notes.
- hh.* Tokyo primary substations:
- (1) Report No. 23 covering primary substations.

(2) Plan of Tokyo City and nearby areas.

(3) Statistics on Komatugawa substation.

(4) Report covering Wadabori substation.

(5) Primary substation equipment data.

*ii.* Tokyo secondary substations:

(1) Summary report of Tokyo substations.

(2) Plant reports on the Tokyo substations—Chigasaki, Hachioji, Hongencho, Jukkengawa, Kojimachi, Nippori, Oshima, Sugamo, and Ozaku.

(3) USSBS—inspection report.

(4) Photo not used in electric power report.

*jj.* Tsurumi steam power plant:

(1) Plant reports (draft).

(2) Notes and work sheets.

(3) Booklet pertaining to Tsurumi steam plant.

(4) Photographs.

(5) Target information sheets.

*kk.* Ushioda steam power plant:

(1) Plant report (draft).

(2) Notes and work sheets.

(3) Target information sheets.

(4) Photographs.

*ll.* Yao substation:

(1) Plant report (draft).

(2) Notes and target location sheet.

(3) Bomb plot.

*mm.* Plant report photographs (consisting of two envelopes).

*nn.* Tokyo Electric Light Company, Ltd.:

----- [USB-13 Roll No. 248A] -----

\* (1) Fiftieth anniversary historical volume of the Tokyo Electric Light Company, Ltd.

(2 through 10) Semi-annual report.

----- [USB-13 Roll Nos. 248A-249] -----

42. The Japanese wartime standard of living and utilization of manpower (final report and original draft).

----- [USB-13 Roll No. 249] -----

*a.* Manpower:

- (1) Records of the National Planning Board for Mobilization:
  - (a) Summary of the 1939 Mobilization Plan.
  - (b) Planning board secret document (1940).
  - (c) Labor mobilization plans (1941).
  - (d) Plans for the national mobilization (1943).
  - (e) National mobilization (1944).
- (2) Student mobilization:
  - \*(a) Laws, regulations, and plans concerning student mobilization for labor—Japanese.
  - (b) Student mobilization handbook.
  - (c) Male and female civilian registrants by industry and area.
  - (d) Number of deaths of mobilized students.
  - (e) Graph.
- (3) Labor data pertaining to coal and other mining:
  - \*(a) Summarized labor statistics table (part Japanese).
  - (b) Efficiency table.
  - (c) Miscellaneous notes and work sheets.
- (4) Labor statistics of the iron and steel industry.
- (5) The Japanese standard of living and the wartime utilization of manpower.
- (6) Army and Navy manpower:
  - (a) Employment data—Army arsenal No. 1.
  - (b) Navy civilian manpower other than military.
  - (c) Civilian manpower Army arsenal No. 1, other than military.
  - (d) Demand and supply schedule of workers in Army.
  - (e) Process of mobilization (workmen)—(construction battalion).
  - \*(f) Number of persons worked during war (part Japanese).
  - (g) Interrogation of the construction department of the Japanese Army.
  - (h) Interrogation— Navy Department manpower.
  - (i) Interview with Captain Yoshida.
  - (j) General data pertaining to Army and Navy manpower.
  - (k) General data pertaining to Army manpower.
  - (l) Labor graph.
  - \*(m) Miscellaneous notes and work sheets (part Japanese).
- (7) Employment data—aircraft factories:
  - \*(a) Number of factories and personnel in aircraft and related industry by type of product (part Japanese).

- \* (b) Wage scales by sex and year (part Japanese).
  - \* (c) Casualties in principal factories (Japanese).
- (8) Labor laws:
- (a) The allocation of labor.
  - \* (b) Extract of labor laws (part Japanese).
  - \* (c) Summary of the principal economic control laws as enforced on 15 August 1945 (part Japanese).
  - \* (d) Labor acts and ordinances (part Japanese).
  - \* (e) Personnel connected with labor industry (part Japanese).
- (9) Effects of air raids on labor:
- (a) Effects on labor in factories and working places.
  - (b) Effects of bombing on Japanese labor in light and home industries.
  - (c) Effects of bombing on Japanese labor in heavy industries.
- (10) Imported labor:
- \* (a) Report pertaining to the utilization of Korean laborers (imported group). (part Japanese).
  - \* (b) The use of imported Chinese labor (part Japanese).
  - \* (c) Utilization and treatment of Koreans (part Japanese).
  - (d) Survey of Koreans resident in an proper by industry and occupation.
  - (e) Report on the group importation situation of Koreans.
  - (f) Allowances (Chinese).
- (11) Labor Mobilization:
- \* (a) The Ordinance of National Labor Mobilization (part Japanese).
  - \* (b) How government offices controlled laborers (part Japanese).
  - \* (c) Allocation of labor (part Japanese).
  - (d) Mobilized personnel in Labor Patriotic Corps..
  - \* (e) The affairs of Japan's Labor Service Association (part Japanese).
  - (f) Associations and memberships of Sangyo-Hokoku-Kai at the end of June 1943 (part Japanese).
  - \* (g) Chronology of the Sangyo- Hokoku movement (part Japanese).
  - \* (h) Membership of Romu Hokokukai, 1943-1944 (part Japanese).
  - \* (i) Annual revenue estimate of the Asaka Industrial Patriotic Association (part Japanese).
  - \* (j) Outline of enterprise (part Japanese).
  - (k) Age of workers by industrial classification.
  - (l) Miscellaneous notes and worksheets.



(12) Control of labor:

- (a) Utilization of school children and students.
- (b) Report on casualties.
- (c) Population, armed forces, and civilian labor force by sex and activity, Japan proper.
- (d) Labor situation existing during East Asia War.
- (e) Report on the utilization of Korean laborers.
- (f) Statistical table in relation to yearly draftees.
- \* (g) Conscription data (Japanese).
- \* (h) Data pertaining to labor (part Japanese).
  - (i) Navy civilian manpower.
  - (j) Public shelter labor costs.
  - (k) Student labor mobilization.
  - (l) Manpower in civilian defense.
- (m) Allocation of labor.
- (n) Manufacturing industry percentages.
- (o) Cost and man-hours expended in construction of shelters.
- \* (p) Rebuilding of theaters (part Japanese).

----- [USB-13 Roll No. 249A] -----

- (q) Population of five cities of Hiroshima Prefecture.
  - \* (r) How government controlled laborers (part Japanese).
  - (s) Expense and number of shelters constructed in Nagasaki-Ken.
  - (t) Mobilization of women.
  - (u) Appendix tables.
  - \* (v) Miscellaneous notes, work sheets and data (part Japanese).
  - (w) Labor force classified by age and sex.
- (13) Special compensation to workers:
- \* (a) Reports on special food allotments and priority transportation (part Japanese).
- (14) Absenteeism:
- (a) Absence ratio of factory workers by types of industries.
  - (b) Chart showing number of workmen by quarter.
  - (c) Monthly absenteeism.
  - (d) Graph showing labor attendance rate.
  - (e) Rate of attendance.
  - (f) Personnel in the damaged factories.

- (g) Causes of absenteeism.
- (h) Miscellaneous notes and work sheets.
- (15) Productivity and absenteeism by individual plants:
  - (a) Report on the Japan Steel Works, Ltd.
  - (b) Tendency of production, the Kawasaki iron and steel works.
  - \* (c) Miscellaneous notes and work sheets (part Japanese).
- (16) Conscription data:
  - (a) Annual conscriptions.
  - (b) Number of conscripted enterprises.
  - (c) Draft of labor from nonessential industries.
  - \* (d) Conscription forms (Japanese).
- (17) Training:
  - \* (a) Training programs—Japanese.
  - \* (b) Revision of industrial training regulations (Japanese).
- (18) Prisoners:
  - (a) Report on Japanese national prisoners.
  - (b) Report concerning Allied prisoners of war.
- (19) Welfare and commerce ministries:
  - (a) Reference on adjustment of draft and mobilization since beginning of the Greater East Asia War.
  - (b) Report on wage scale of nonferrous metals department.
  - (c) Report on wage scale of electric wire and cable department.
  - (d) The associations activity to meet the labor shortage.
  - (e) Interrogation—Munitions Ministry.
  - (f) The statistics of workers.
  - (g) The statistics of average wages.
  - (h) The statistics of yearly production output per worker.
  - (i) Miscellaneous notes and work sheets.
- (20) Japanese booklets and translations:
  - \* (a) Ordinance with regard to management of labor in essential enterprises (Japanese).
  - (b) Regulations with regard to national conscription (Japanese).
  - \* (c) Notification of laws providing for matters pertaining to the training of technicians (Japanese).
  - (d) National labor laws (Japanese).
  - (e) Civilian air, defense—Tokyo (Japanese).

- (f) Countermeasures for air attacks (Japanese).
- (g) National labor group regulations (Japanese).
- (h) Condition of industry damage and loss in air attack (Japanese).

b. Food:

(1) Agricultural and rice controls:

- \* (a) Imperial laws pertaining to rice (part Japanese).
- (b) Graphs showing rice prices and general cost of living.
- (c) Subsidies in the food program.
- (d) Report on the price structure.
- (e) Agricultural policy in Japan.
- (f) Farm workers needed to maintain production.
- (g) Occupational classification of Japan's population.
- (h) Graph of the changes in the agricultural population.
- (i) Notes from the Agriculture Bureau.

(2) Investigation of the rice exports form Japan.

----- [USB-13 Roll No. 250] -----

(3) Food rationing, control and operation:

- (a) Rice ration for various types of working people.
- \* (b) The influence of food ration upon the production of factory personnel (part Japanese).
- (c) Special food allotments and priority transportation.
- \* (d) Allotment for coal miners (part Japanese).
- \* (e) Distribution of agricultural products (Japanese).
- (f) Supply and demand of rice in Japan.
- (g) Supply and demand of staple foods.
- (h) Yield of rice in Japan and colonies.
- (i) Report on the distribution of perishable foodstuffs.
- (j) Food situation in Japan.
- (k) Unusual materials used in foods.
- (l) Mitsubishi Mining Company report on nutrition.
- (m) Report on prewar, war, and postwar food problems.

(4) Distribution of food for the War Ministry:

- (a) Chart of food procurement and distribution.
- (b) Report of the Agriculture Ministry.
- (c) Japanese papers.
- (d) Report on the effects of reduced diet.

- \* (e) Farm labor—Japanese.
  - (f) A study of Osone Buraku, Niigata.
  - (g) Measures for increasing food production through soil improvement.
- (5) Japanese Army food problems:
- \* (a) Quantities of major foods furnished Army units (Japanese).
  - (b) Report on the health conditions of the Army.
  - \* (c) Map of Army provision depots (Japanese).
  - \* (d) Japanese paper (Japanese).
  - (e) Army nutritional diseases (Japanese).
  - (f) Procurement and distribution of fish, eggs, meat, sake, tobacco, and salt for the Army.
  - (g) Procurement and distribution of soy, miso, flour, wheat, and rice for the Army units.
  - (h) Map showing location of Army food depots.
  - (i) Food stockpiles left at the end of the war.
- (6) Japanese Navy food problems.
- c. Civilian supplies:
- (1) Civilian fuels:
- (a) Estimated needs of charcoal and firewood.
  - (b) Consumption of coal and briquette.
  - \* (c) Coal consumed in Japan (part Japanese).
  - \* (d) Distribution of charcoal.
  - (e) Fuel Bureau Organization.
- (2) General data on textile industry:
- (a) Brief typed report concerning the Textile Association of Japan and outline of control of textile goods.
  - (b) General remarks concerning textile industry.
  - (c) Information and data; pertaining to raw material and textile imports.
  - (d) Information and statistics on over-all production of textiles.
  - (e) Figures on textile exports.
  - (f) Figures on stocks of Central Corporation of Textile Distributors.
  - \* (g) Tables showing number of workers in textile industry.
  - (h) Figures and information on per capita consumption of cloth.
  - (i) Production lost during periods of air-raid alerts.
  - (j) Notes on interviews with persons connected with textile industry.
  - (k) Brief report on textile machinery.

- (l) Answers to questionnaires concerning industry.
- (3) Textile production for military uses:
  - \*(a) Organization of Army supply system (part Japanese).
  - \*(b) Tables showing factories whose output was consumed by Army (part Japanese).
  - (c) List of depots and factories controlled by the Army.
  - \*(d) Plan and amount of Army production (part Japanese).
  - \*(e) Value of textiles produced for Army use (part Japanese).
  - \*(f) Information on quality of produce (part Japanese).
  - \*(g) Japanese document recording only case of military supplies diverted to civilian relief.
  - \*(h) Table showing amounts of textile equipment which was shipped outside Japan proper (part Japanese).
  - \*(i) Tables and Japanese documents showing stocks of military goods existing at close of war (part Japanese).
  - (j) Notes on interviews pertaining to military goods.
  - (k) Figures on woolen goods purchased from civilian mills.
- (4) Cotton:
  - (a) Over-all data on imports production and exports of raw cotton and processed materials.
  - (b) Detailed figures on quality and amounts of imports.
  - (c) Production data.
  - (d) Labor statistics.
  - (e) Table showing exports of cotton materials.
  - (f) Information on consumption of cotton products.
  - (g) Stocks of cotton materials.
  - (h) Map and information on bomb damage.
- (5) Wool:
  - (a) Mimeograph report on woolen industry.
  - (b) Map showing location of woolen mills.
  - (c) General statistics on imports, production and exports of woolen goods.
  - (d) Figures on imports of raw materials.
  - (e) Table showing exports of woolen products.
  - (f) Production statistics.
  - (g) Labor statistics.
  - (h) Stocks of raw materials and processed goods.

- (i) Map and figures showing extent of bomb damage to the industry.
- (6) Silk:
  - (a) Mimeograph report on analysis of silk industry.
  - (b) General statistics on imports, production, and exports of raw silk materials and processed goods.
- (7) Linen and rayon:
  - (a) Production data.
  - (b) Maps showing bomb damage sustained by respective industries.
- (8) Paper and pulp:
  - (a) Over-all data on the industry as to reduction, consumption, sales and number of plants.
  - (b) Answers to inquiries about pulp mills.
  - (c) Figures on demand and consumption.
  - (d) Production data.
  - (e) Comparison of export, import, and consumption figures.
  - (f) Bomb damage data.
  - (g) Notes.
- (9) Leather:
  - (a) General information and over-all material pertaining to the industry.
  - (b) Production data.
  - (c) Labor statistics.
  - (d) Export and import data.
  - (e) Information on leather substitutes.
  - (f) Comparison of postwar needs with production (Japanese).
  - (g) Notes.
- (10) Rubber:
  - (a) List of rubber manufacturing plants.
  - (b) Table showing distribution of factories and their productive capacity.
  - (c) Table showing imports and estimated consumption of crude rubber from 1931-44.
  - (d) Statistics on raw materials and finished products imported each year from 1930-45 by source of supply.
  - (e) Number and quantity of rubber products supplied in 1940-44.
  - (f) Table showing comparison of capacity with demand.
  - (g) Comparative figures on consumption, supply, stocks, surpluses and shortages.

- (h) Actual output of rubber shoes from 1940-45.
  - (i) Table showing demand and supply of rubber goods from 1940-45.
  - (j) Statistics on raw materials and finished products exported each year 1930-45.
  - (k) Labor statistics.
  - (l) Report on Rubber Control Association.
- d. Over-all material and general data:
- (1) Proposed constitution of Japan.
  - (2) Report on Japan and Korea to the Far Eastern Commission:
    - (a) Eighth weekly report—Civil Affairs Division.
  - (3) List of prisoner of war camps.
  - (4) Interrogations:
    - (a) Food Control Bureau of Ministry of Agriculture and Forestry.
    - (b) Standard of living.
    - (c) Commercial Affairs Bureau, Ministry of Commerce and Industry.
    - (d) The textile industry.
    - (e) Mitsubishi Economic Research Bureau.
    - (f) Statistics section, office of Under-Secretary.
    - (g) Fuel Bureau.
  - (5) Housing Situation:
    - (a) General report on housing conditions in Japan, as given by Mr. Kitaaka, Director of the Housing Corporation.
    - \* (b) Booklet given general description of and functions, of the Housing Corporation (Japanese document).
    - (c) Figures on number of dwellings in various prefectures for different years from 1930-45.
    - (d) Table showing number of building permits applied for from 1930-44.
    - (e) Table showing percentage of dwellings which were overcrowded in 24 Japanese cities.
    - (f) Statistics on number of dwellings destroyed due to all causes.
    - (g) Statistics on number of dwellings destroyed due to natural causes.
    - \* (h) Statistics and information on number of dwellings lost through air attacks (part Japanese).
    - (i) Figures on number of casualties and number of buildings damaged by air attacks.
    - (j) Chart and table giving comparison of number of evacuations with the

number of requests.

(k) Statistics on the number of evacuations.

(l) Figures on the number of pupils evacuated.

(6) Data pertaining to the Japanese Merchant Marine:

\* (a) Chart showing organization of system used in acquiring personnel with write-up on various measures affecting "Crew Collection" during the war.

(b) Statistics on number of personnel in Japanese Merchant Marine.

(c) Figures on wage changes.

(d) Notes on interview with Mr. Kazutaka Shiraishi, head of Bureau of Crews.

(7) Black Market:

(a) Dates on which regulation for controlling the daily laborers for civil engineering were enforced.

(b) Contents of economic regulation laws.

\* (c) Report on day labor black market by the metropolitan police (part Japanese).

(d) Report on police officers on the economy of the nation.

(e) Roster of the staff of the maintenance of Economic Order Section.

\* (f) Index to economic regulation.

(g) The food problem and black marketing in Japan.

(h) Report on the black-market price of rice.

(8) Manchurian documents:

(a) Data on Manchuria-Manchuria Affairs Bureau.

(b) Purpose and details of establishing a telephone and telegraph company.

(c) Policies regarding mining and industry.

(d) Results of withdrawing custom duties between Manchuria and Japan.

(e) Fundamental policies in the economic development of Manchuria.

(9) Final report (draft).

----- [USB-13 Roll No. 251] -----

(10) Work copies of tables contained within manpower, food, and civilian supplies report.

----- [USB-13 Roll Nos. 251-252] -----

(11) Extra pages for manpower, food and civilian supplies report (consisting of seven envelopes).

----- [USB-13 Roll No. 252] -----

43. Japanese War Production Industries (final report and original draft).

a. Preliminary drafts.



*b.* Tables:

- (1) Japanese aircraft production and cost.
- (2) Machine gun and ammunition production 1944-45.
- (3) Dispersal plans.
- (4) Explosives—production in tons by year and factory.
- (5) Finished steel distribution, Japan proper, fiscal years 1937-45.
- (6) Value of Japanese aircraft production.
- \* (7) Table for allocation of special steel.
- (8) Table for demand for one year after the war, ordinary steel materials.
- (9) Fluctuation of scrap iron collection.
- (10) Total allocations and receipt of special steel by air forces.
- (11) Table of contrast demand and supply steel materials 1932-44.
- (12) Intermediate steel allocation by consuming categories.
- (13) Classified table of distribution plan and actual consumption of steel materials.
- (14) Table for allocation of ordinary and special casting steel—1944-45.
- (15) Suballocation and consumption of Navy's share of steel.
- (16) Suballocation and consumption of "DX" share of steel.
- (17) Consumption of special steel by Army by product.
- (18) Special account of war expenses sanctioned by the Emperor and spent.
- (19) Total production used in all machinery and manufacturing industries.

*c.* Graphs showing powder and explosives production capacity in tons and value of Army ordnance production.

*d.* Charts:

- (1) Organization of the Cabinet Planning Board.
- (2) Chart of distribution of Japanese Army provisions.
- (3) Status of Japanese military supplies on Luzon Island—October 1944-August 1945.
- (4) Scheduled and actual communications equipment production.
- (5) Scheduled and actual gun production.
- (6) Scheduled and actual fire-control equipment production.
- (7) Apportionment of reserves for annual ordnance production.

*e.* Reference material:

- (1) Report on Mitsubishi Heavy Industries Company.
- (2) Map showing location of supply depots.
- (3) Current situation of military supply depots.
- \* (4) Flow diagram of Ishikawajima Heavy Industries, Ltd.

----- [USB-13 Roll Nos. 252-252A] -----

- (5) General picture of small-arms development and production.
- (6) Japanese booklet—"Reference Material in Steel Manufacturing Industries."
- (7) Twentieth Air Force Bombardment of Japan.
- (8) Miscellaneous graphs.

44. Japanese Naval ordnance (final report and original draft).

*a.* Kokura Arsenal data:

- \* (1) General plant report.
- \* (2) Production data.
- \* (3) The table of ground and building.
- \* (4) The table of material.
- \* (5) The table of complete and incomplete arms.
- \* (6) The table of medical materials.
- \* (7) The table of machine and instrument.
- \* (8) The explanatory note of surrender.
- \* (9) Map of Usa County.
- \* (10) General report first factory of the Kokura Army Arsenal.
- \* (11) Situation of factories of Kokura Military Arsenal.
- \* (12) Plant diagrams.

----- [Missing] -----

*b.* Nagoya Arsenal data:

- \* (1) General plant report.
- \* (2) Damage from air attack.

----- [USB-13 Roll No. 253] -----

*c.* Aircraft, torpedo and mines:

- (1) Production list of mines, depth charges and sweepers.
- (2) Ordnance production plans-aircraft, torpedo and mine.

*d.* Optical Equipment:

- (1) Production, production plans, stocks in arsenals and factories.

*e.* Bombs:

- (1) Production, production plans, stocks in arsenals and factories.

*f.* Aircraft, machine guns and ammunitions:

- (1) Production, production plans, arsenal data, and air-attack. data.

*g.* Communication equipment:

- (1) Production data stock in arsenal and factories, number of workers, damage by air-raids and dispersal plans.

(2) Data pertaining to radio communication and electrical equipment.

----- [USB-13 Roll No. 253A] -----

*h.* Ordnance production, 1931-45:

(1) Annual production, monthly production, stocks in arsenal and factories and production by individual plants (three envelopes).

----- [USB-13 Roll No. 253B] -----

(2) Production by individual plants.

*i.* Optical instruments:

(1) Annual data, monthly data, production by individual plants, plan of dispersal, and employment data.

*j.* Nautical instruments:

(1) Annual data, monthly data, Production by individual plants, plan of dispersal, and employment data.

*k.* Rubber:

(1) Questionnaire and reply to the Rubber Control Association of Japan.

(2) Distribution of factories and their productive capacity.

(3) Imports and estimated consumption of crude rubber from 1931-1944.

(4) Number of automobile tires and tubes sold between 1936 and 1942.

(5) List of rubber producing plants.

*l.* Bomb damage:

\* (1) Damage of factories by air raid—Osaka.

\* (2) Report on bomb damage—Tokyo Arsenal.

(3) Effects of each air attack—Sagami Army Arsenal.

(4) Production figures in unbombed factories of Sagami Arsenal.

\* (5) List of shipped amounts and losses during sea transportation.

\* (6) General report on Sagami Arsenal.

----- [USB-13 Roll No. 253C] -----

*m.* Total Navy expenditures, general data.

*n.* Navy organization:

(1) Navy chain of command.

(2) Chart of organization of Naval Technical Department.

(3) Chart showing production system of Naval supply.

(4) Intelligence memorandum—Japanese Naval Air Forces.

(5) Intelligence memorandum—The Ministry of Munitions.

*o.* Replies to questionnaires.

(1) Toyokama Arsenal.

- (2) Navy department.
- (3) Copy of USSBS questionnaire.

*p.* Reference material:

- (1) Man-days required for military products.
- (2) List of naval ammunitions.
- (3) Inventories of finished and semifinished products in civilian workshops under control of IJN.
- (4) Map—Naval munition storage.
- (5) Map—private business concerns under Navy Control.
- (6) Map—location of Naval factories.
- (7) Naval inventories at the end of the war.
- (8) List of war materials in possession of private business concerns under Navy control.
- (9) List of Japanese Naval arsenals.
- (10) Diagram of Suzuki Machine Company.
- (11) Charts giving description of building and consumption of electric power, gas and coals.
- (12) Plant plans.
- (13) List of Navy controlled Plants.
- (14) Drafts of report.
- (15) Miscellaneous charts.

----- [USB-13 Roll No. 253D] -----

- (16) The list of Japanese Naval property.

*q.* Interrogations and interviews.

----- [USB-13 Roll No. 253E] -----

45. Japanese Army ordnance (final report and final draft).

*a.* Sagami arsenal:

- \* (1) Production schedule (part Japanese).
- (2) Complete official report with maps and charts submitted in answer to USSBS questionnaire.
- (3) Charts (supplementary data to questionnaires).
- (4) Production charts.

*b.* Nagoya Arsenal:

- (1) Report submitted by company officials to USSBS in answer to questionnaire (part English).
- (2) Nagoya planned production.

*c.* Tokyo No. 1 Arsenal:

- (1) A survey of important ammunition works, equipment, and installations (private industry section) report made by Army ordnance administration headquarters.
- (2) Effects of air attack—damage and production loss.
- (3) Production charts.
- (4) Weapons production chart, by year, 1931-40.
- (5) List of branches and products.

----- [USB-13 Roll No. 254] -----

- (6) Tokyo Arsenal report (incomplete).

*d.* Tokyo No. 2 Arsenal:

- \* (1) Production tables.
- \* (2) Production, planned and actual—Tokyo No. 2 Arsenal.
- (3) List of munition companies, names of controlled factories, and list of vital products.
- (4) List of Tokyo No. 2 Arsenal branch factories and products.
- (5) Air-raid damage charts.
- \* (6) Branch plants and products (part Japanese).

*e.* Osaka Arsenal:

- \* (1) Production charts.
- \* (2) Annual production charts.
- \* (3) Artillery production (graph).
- \* (4) Present condition of Osaka Army Arsenal (complete report of main arsenal and subsidiaries) (with English translation). Two copies.
- (5) Complete report by company officials.

----- [USB-13 Roll No. 254A] -----

*f.* Kokura Arsenal:

- (1) Production charts.
- (2) Ordnance production charts, 1931-40.
- (3) Inventory of main ordnance in storage of Army supply park under the Commandant of the Central Ordnance depot.

*g.* Takagi Arsenal:

- (1) Plans for manufacturing shells—three copies.
- (2) Plans for manufacturing type 00 (7.7-mm) common shells.

*h.* Civilian plants:

- (1) Data pertaining to civilian plants under direct control of arsenals.

*i.* Dispersal plans:

- (1) The 2nd Arsenal of Tokyo dispersal plans.
- (2) Arsenal of south Manchuria.
- \* (3) Plans for dispersal (1941-45) submitted by Army Ordnance Bureau (Japanese and English).
- \* (4) Osaka dispersal plans.
- \* (5) Kokura dispersal plans.
- \* (6) The 1st Arsenal of Tokyo dispersal plans.
- (7) Nagoya plans for dispersal.
- (8) Army arsenal dispersion.

*j.* Priority allocations:

- (1) Establishment of priority and distribution of
- (2) Allocation of products—Tokyo No. 1 Arsenal.

----- [USB-13 Roll No. 254B] -----

- (3) Change in priority (chart).
- \* (4) Allocation of priorities to arsenals.
- \* (5) Allocation of priorities (No.2 Arsenal, Tokyo).
- \* (6) Osaka Arsenal productions priorities.
- (7) Steel allocations—Tokyo No. 1 Arsenal—Sagami Osaka, Kokura and Nagoya.

*k.* Production data:

- (1) Kokura Arsenal monthly production tables.
- (2) Tokyo No. 1 Arsenal monthly production tables.
- (3) Tokyo No. 2 Arsenal monthly production tables.
- (4) Production plans for fiscal year 1945—Sagami Army Arsenal.
- (5) Production plans for Tokyo No. 1 Arsenal.
- (6) Production plans for Osaka Arsenal.
- (7) Production plans for Kokura Arsenal.

*l.* Production hours expended in the manufacture of products:

- (1) List of major items and time required for their production, Tokyo No. 1 Arsenal.
- (2) List of the time required for manufacturing explosives—Tokyo No. 2 Arsenal.

*m.* Workers, shifts, hours and floor space:

- \* (1) Table of employees, men, women, students (part Japanese).
- \* (2) Employees, man-hours, wages chart—Osaka (part Japanese).
- (3) Number of workers, shifts—tables, Kokura Arsenal.
- (4) Tables and charts on number of workers, shifts, hours and floor space for 1st Arsenal of Tokyo.

- (5) Floor space of 2nd Arsenal of Tokyo.
  - (6) Total man-hours available each month-Tokyo Optical Company.
  - (7) Lost time by hours, Tokyo Optical Company.
  - (8) Total man-hours available each month; Konishiroku Photo Industrial Company.
- n.* Bottlenecks:
- \* (1) Important bottlenecks in essential military production.
  - (2) Tokyo No. 1 Arsenal list of bottlenecks.
  - \* (3) Kokura list of bottlenecks.
  - (4) Shortage in materials chart Tokyo No. 2 Arsenal.
  - \* (5) Bottlenecks in production at the Osaka Army Arsenal (English and Japanese).
- o.* Inventories:
- \* (1) Kokura—year-end inventories nonferrous metals.
  - (2) First Arsenal of Tokyo—Annual number of machinery put in civil companies.
  - \* (3) Data on the conversion of Arsenal equipment No. 1 proposal.
  - (4) Osaka year-end inventories.
  - (5) Nagoya year-end inventories.
  - (6) Tokyo No. 1 Arsenal—year-end inventory.
  - (7) Tokyo No. 2 Arsenal—year-end inventory.
  - (8) Inventory of equipment and materials at airfields.
  - (9) Number of machine tools installed in each Arsenal at time of armistice.
- p.* Tokyo Central Army Supply depot:
- (1) Simura warehouses (chart).
  - (2) Tokyo Ordnance Supply depot and its branches (map).
  - (3) Chart of equipment and the locations of division in charge of the branch of Tokyo Army Ordnance Supply depot.
  - (4) Stock list of Army clothing as of 31 August 1945.
  - (5) Stock list of subsistence.
  - (6) Charts—guns and rifles—ammunition—motor vehicles and fuel—various equipment.
- q.* General data:
- (1) Chart of Japanese Industrial Organization.
  - (2) Organizational flow chart.
  - (3) Japanese Army organization chart for procurement and supply.
  - (4) Report for ordnance budget of Army 1941-45.
  - (5) Location of arsenals (map).

- (6) Production chart of military supply in yen value of mainland Arsenals 1941-44.
  - (7) Explosive industry in Manchuria (charts).
  - (8) List of main materials.
  - (9) Inventory of preserved veterinary materials and instruments.
  - (10) Current inventory of medical stores.
  - (11) List of Army working departments.
  - (12) Stock at end of year.
  - (13) Amount of supply to overseas.
  - (14) Amount of arms, shells, and motor vehicles production chart.
  - (15) Disposition of radio detectors locators (map).
  - (16) Report to the Diet by the Ministry of Commerce and Industry concerning reasons for the termination of war, 1 September 1945.
  - (17) Survey of lands and construction of Army Arsenals.
- r.* Current situation of the Army Ordnance Bureau 31 August 19—Army Ordnance Bureau—photostat copy.
- [USB-13 Roll Nos. 254B-255] -----
- s.* Current situation of the arsenals, 31 August 1945, Army Ordnance Bureau (four copies in photostat).
- [USB-13 Roll No. 255] -----
- t.* Reference material:
- (1) Radio Communications Equipment Company report.
  - (2) Plant report, Kameari works, Hitachi, Ltd.
  - (3) Japanese booklet (untranslated).
- u.* Special report on balloon bombs and landing craft.
- [USB-13 Roll Nos. 255-255A] -----
- v.* Table of production and military supply (report by Army Ordnance Bureau).
- [USB-13 Roll No. 255A] -----
- w.* Work sheets.
- x.* Interrogations.
46. Japanese Naval Shipbuilding (final report and original draft).
- a.* Tables:
- (1) Monthly indices of Japanese naval ship production, by fiscal year, 1941-45.
  - (2) Shipbuilding industry report.
  - (3) Table of delivered tonnage and number of ships, IJN.
- b.* Employees and man-hours:



- (1) Number of workers in naval yards contributing to shipbuilding.
  - (2) Table showing total hours of labor employed in building naval vessels.
  - (3) Total employees and man-hours.
- c.* Expenditures:
- (1) Average cost per ton of naval vessels.
  - (2) List of expenditures for naval ships.
  - (3) Total building expenses 1941-45.
  - \* (4) Maizuru Navy Yard expenditures.
  - (5) Cost of naval vessels (in millions of yen).
- d.* Steel:
- (1) Allocation and stock of steel materials for shipbuilding.
  - (2) Steel materials consumed.
- e.* Bottlenecks:
- (1) Bottlenecks in the production of military supplies.
  - (2) Bottlenecks on the part of shipping, their causes and countermeasures.
  - (3) Bottlenecks and Countermeasures—Ominato Navy Yard.
- f.* Construction.
- (1) Report on naval ship production, 1941-45.
  - (2) Miscellaneous tables pertaining to construction.
  - (3) Miscellaneous graphs pertaining to construction.
  - (4) Chart showing changes made in the building programs.
  - (5) Concrete.
  - (6) Construction data on Ha 201 Type Submarine.
  - (7) Initial program for naval ships.
  - (8) General description of shipbuilding under wartime plan.
  - (9) Engine production.
  - (10) Estimation on shipbuilding capacity of navy yards.
  - (11) The war ships whose construction schedule was changed.
  - (12) Building program for Maizuru Navy Yard.
  - (13) List of ships built at the Yokosuka Navy Yard.
  - (14) List of naval vessels completed since 1931.
  - (15) The dates of commissioning of all major Japanese Naval vessels after 1 December 1941.
- g.* Landing craft and special attacks:
- (1) Tables pertaining to.
  - (2) Actual production of special attack vessels.

- (3) Production of landing craft.
- (4) Table pertaining to production of auxiliaries.

----- [USB-13 Roll No. 256] -----

*h.* Bomb damage:

- (1) Air-raid damage in shipbuilding.
- (2) Destruction of floorspace by bombing in commercial shipyards.
- (3) Bomb plot, Kure Navy Yard.
- (4) Air-raid damage to Maizuru Navy Yard.

*i.* Reference material:

- (1) Rough draft.
- (2) Notes and work sheets.
- (3) Tables showing Japanese Naval vessel tonnage, 1941-45.
- (4) List of miscellaneous vessels of the Japanese Navy.
- (5) Questionnaires.
- (6) List of naval vessels completed since 1931.
- (7) Docks and harbor facilities.
- (8) JTG Merchant shipping.
- (9) Photographs of navy yards.

*j.* Interrogations.

*k.* Japanese Naval shipbuilding, IBM, cards.

----- [USB-13 Roll Nos. 256-257] -----

*l.* Japanese cards listing the Japanese Naval shipbuilding subcontractors.

----- [USB-13 Roll No. 257] -----

*m.* Statistical summaries:

- (1) Special reports of Japanese Naval shipbuilding.
- (2) A special report, by fiscal year, by class in commercial yard.
- (3) Special report of Japanese Naval ship construction—A quarterly shipyard study.

----- [USB-13 Roll No. 258] -----

47. Japanese Motor Vehicle Industry (final report and original draft).

- a.* Nissan Motor Corporation.
- b.* Hino Heavy Industry Company, Ltd.
- c.* Diesel Jidosha Kogyo, KK (Isuzu Motor Company, Ltd.)
- d.* Toyota Motor Company, Ltd.
- e.* Special report to General MacArthur relative to the automobile industry in Japan.
- f.* General data.

*g.* Overseas strength and number of trucks in theaters of operation during war years.

*h.* Work sheets.

48. Japanese Merchant Shipbuilding (final report and original draft).

*a.* Major yards:

- (1) Kabushiki Kaisha Hiroshima Zosencho No. 5292 Aioi City Hyogo Prefecture—detailed statistical report.
- (2) Fukahori Shipyard—Kawaminami Kogyo Company, Ltd.—statistical report.
- (3) Innoshima Shipyard Hitachi Zosen Company, Ltd.—statistical report.
- (4) Toyosu, Fukagawaku City, 2 Chome-Ishikawajima Heavy Industries Company, Ltd.—statistical report.
- (5) Kawasaki Dockyard Company, Ltd., Kobe—statistical report.
- (6) Kobe shipyard and engine works—Mitsubishi Heavy Industries, Ltd.—statistical report.
- (7) Koyagijima dockyard; Kawaminami Kogyo—Kabushiki Kaisha, Ltd.—statistical report.
- (8) Kabushiki Kaisha Harima Zosencho-Matsunoura branch works No. 5368, Aioi City, Hyogo Prefecture—statistical report.
- (9) Nagasaki shipyard and engine works, Mitsubishi Heavy Industries, Ltd.—statistical report.
- (10) Sakurajima shipyard, Hitachi Shipbuilding Company, Ltd., Konohanaku, Osaka—statistical report.
- (11) Mitstui Shipbuilding Company, Ltd., Tomano Works—statistical report.
- (12) Tokyo Shipbuilding Yard Company, Ltd., Tokyo—statistical report.
- (13) Tsurumi shipyard—Nippon Steel Tube Company, Ltd.—statistical report.

----- [USB-13 Roll No. 259] -----

- (14) Uruga dockyard—Uruga Dock Company, Ltd.—statistical report.
- (15) Uranosaki shipyard—Kawaminami Industrial Company—statistical data.
- (16) Wakamatu shipyard—Mitsubishi Heavy Industries, Ltd.—statistical data.
- (17) Yokohama shipyard—Mitsubishi Heavy Industries, Ltd.—statistical data.

*b.* Minor shipyards:

- (1) Amagasaki and Osaka shipyards, Amagasaki Dockyard Company, Ltd.—statistical data.
- (2) Asano dockyards Nippon Kokan Kabushiki Kaisha—statistical report.
- (3) Chikko yard—Hitachi Shipbuilding Company, Ltd.—statistical report. [築港造船所]

- (4) Dairen Dockyard and Iron Works Company, Ltd.—Tokyo—statistical report.
- (5) Fujinagata Shipbuilding and Dockyard Company, Ltd.—statistical report.
- (6) Hakodate Dockyard—Hakodate Dock Company—statistical data.
- (7) Hashihama Dock Company, Ltd.—statistical data.
- (8) Hayashikane Zosen Kabushikikaisha—statistical data.
- (9) Hiroshima shipyard—Mitsubishi Heavy Industries Company, Ltd.—statistical data.
- (10) Horai Shipbuilding Ironwork Company, Ltd., No. 187 Shinsumiya-cho, Taishoku, Osaka—statistical data.
- (11) Kanagawa yard—Hitachi Shipbuilding Company, Ltd.—statistical data.
- (12) Kanagawa Zosen Company, Ltd. — (One page, part of report).
- (13) Kanasashi shipyard—No. 19, 4010 Miho Shimizu Shizuoka—statistical report.
- (14) Kasado Dock Company, Ltd.—statistical report.
- (15) Kizugawa Dock. Kabushiki Kaisha, 69 Nishihama-Kitadori, Osaka—statistical report.
- (16) Konan shipyard-Mitsubishi Heavy Industry, Ltd.—statistical data.
- (17) Kyushu Zosen Kabushiki Kaisha, Wakamatsu, Fukuoka Prefecture—statistical report.
- (18) Miho Zosen Company, Ltd.—statistical report.
- (19) Mukaisha yard—Hitachi Shipbuilding Company, Ltd.—statistical report.
- (20) Muroran dockyard-Hakodate—statistical data.
- (21) Nagoya shipbuilding Company—statistical report.
- (22) Namura Zosen Company—statistical report.
- (23) Naniwa Dock Yard Company, Osaka—statistical report.
- (24) Nipponkai Dockyard Company, Ltd.—statistical report.
- (25) Ohara Shipyard Company, Ltd., Nishinariku, Osaka—statistical report.
- (26) Osaka Shipyard Company, Ltd. —statistical report.
- (27) Sanoyasu Dockyard—statistical report.
- (28) Sanko Shipyard, Ltd., Taishoku, Osaka—statistical report.
- (29) Kawasaki Dockyard Company, Ltd., Senshu plant—statistical report.
- (30) Settsu Zosenkogyo Company, Ltd.—statistical report.
- (31) Shimizu shipyard—Nippon Kokan Company, Ltd. —statistical report,
- (32) Shimonoseiki—Mitsubishi Heavy Industry, Ltd.—statistical report.
- (33) Tohoku Dockyard Company, Ltd.—statistical report.
- (34) Takai Shipyard Company, Ltd.—Simizu Sizuoka—statistical report.
- (35) Urabe Shipbuilding Company, Ltd.—statistical report.

(36) Yokohama Seisakusho Company, Ltd. (one page of report).

*c.* General data:

(1) Production figures in tons.

\* (2) Construction list., Kawanami Shipyard, Nagasaki.

----- [USB-13 Roll Nos. 259-259A] -----

(3) Hitachi Shipbuilding Company, Ltd.—general report.

----- [USB-13 Roll No. 259A] -----

(4) Production data and company report—Uruga Dock Company, Ltd.

(5) Mitsubishi Heavy Industries. Ltd.—Kobe Shipyard and Shimonoseki Shipyard production figures.

(6) Interrogations.

(7) Identification code of shipyards.

(8) Brief historical outline of Kawasaki Heavy Industries.

(9) Particulars of standard ship types (table).

(10) Information relative to personalities in the shipbuilding industry.

(11) General outline of the Japanese shipbuilding industry.

(12) Outline of merchant shipbuilding.

(13) Reply to supplementary questions concerning merchant shipbuilding:

(14) Over-all information on the schedule and production of ships.

(15) Photostats.

(16) Data on manhours and employment.

(17) Cost data.

(18) air-attack damage charts.

(19) Wooden ships construction..

*d.* Work sheets.

*e.* Complete shipping report (two boxes).

----- [USB-13 Roll No. 260] -----

*f.* Statistical summaries.

(1) Japanese merchant ship construction (quarterly shipyard study).

(2) Monthly ship classification study (monthly and fiscal year totals).

(3) Japanese shipbuilding, by date by class.

(4) Shipyard study of Japanese built merchant ships by fiscal year of delivery (five copies).

\* (5) Monthly ship classification study of Japanese merchant ships monthly and fiscal year totals.

(6) Alphabetic listing of Japanese merchant ships (1931-45). Totals on number of

ships and tonnage (two copies).

----- [USB-13 Roll Nos. 260-260A] -----

(7) Monthly production study of Japanese-built merchant ships (two copies).

----- [USB-13 Roll No. 260A] -----

(8) Monthly ship classification study (monthly and fiscal year totals).

(9) The Japanese Merchant Marine and Coastwise Shipping, Department of State, R and A No.2682.

(10) Data on standard ships.

*g.* Production schedule of merchant ships for commercial shipyards by Transport Ministry and Navy Technical Bureau (photostats of original Japanese—No translation).

----- [Missing] -----

49. Chemicals in Japan's War (Final report and original report).

*a.* Company reports:

(1) Dai Nippon Celluloid Company—Sakai:

(a) Final report (draft).

(b) Japanese histories of the organization.

\**(c)* Production data (Japanese).

(d) Celluloid exports.

(e) Purchase form.

(f) Air raids and bomb damage.

\**(g)* Plot plan bomb damage (Japanese).

\**(h)* Plot plan (Japanese).

(i) Photographs and negatives.

(2) Electro-Chemical Industry Company—Omuta:

(a) Final report (draft).

(b) Reply to American Committee of Investigation (Japanese).

(c) General outline of the plant submitted by officer-in-charge Naval Division.

(d) Work sheets.

(e) Production data.

----- [USB-13 Roll No. 261] -----

\**(f)* Plot plans and general arrangement of the Chemical plant (Japanese).

\**(g)* Bomb damage—Plot plan (Japanese).

(h) Reply to questionnaire.

(3) Hodogaya Chemical Industry:

(a) Final report (draft).

- \* (b) Reply to American questionnaire (part Japanese).
  - (c) Reports of enterprise.
  - (d) Production figures—caustic soda; metallic soda; sodium chlorate; and tetraethyl lead.
  - (e) Consumption figure—sodium chloride; alcohol; sulphuric acid; zinc chloride; lead; metallic soda; bromide; and ethylene bromide.
  - (f) Number of employees—before and after war.
  - (g) Work sheets.
  - (i) Stocks on hand.
  - (k) Flow charts.
  - \* (l) Plant lay-out with index (part Japanese).
  - (m) Flow diagram for making ethyl fluid.
- (4) Hodogaya Chemical Industry Company-Yokohama:
- (a) History of the company before the war.
  - (b) Work sheets.
  - \* (c) Complete report of the company as prepared by the Japanese (part Japanese).
  - \* (d) Production record (part Japanese).
  - \* (e) Bomb plot plan (part Japanese).
  - \* (f) Process sheet—caustic soda plant (part Japanese).
  - (g) Tetraethyl lead summary and report.
- (5) Ishihara Industrial Company, Ltd.—Yokkaichi:
- \* (a) Imported ore records (part Japanese).
  - \* (b) Reply to questionnaire (part Japanese).
  - (c) Work sheets and notes.
  - (d) Final report (draft).
  - (e) Production data.
  - (f) Air-attack data.
  - (g) Detailed bombing data.
  - \* (h) Refinery operational layout (Japanese and English).
  - \* (i) Flow diagram—cobalt refinery (Japanese and English).
  - (j) Bomb plot (Japanese).
  - \* (k) Plant facilities layout (Japanese).
  - \* (l) Plant prisoners of war data (Japanese).
  - (m) Interrogation—subject: Company organization and plant operation.
  - \* (n) Bomb damage report (Japanese).

- (o) Photographs and negatives.
- (6) Nippon Chemical Industry Company, Ltd.—Koriyama:
  - (a) Final report (draft).
  - (b) Work sheets and notes.
  - (c) Production data.
  - \* (d) History of the plant (part Japanese).
  - (e) Raw material data.
  - \* (f) Plant layout (part Japanese).
- (7) Nippon Chemical Industry Company, Ltd.—Komatsugawa:
  - (a) Report on industrial manufacturing.
  - \* (b) Plant history (Japanese and English).
  - \* (c) Plot plan (part Japanese).
  - (d) Flow diagrams.
- (8) Nippon Chemical Industry Company, Ltd.—Onoda:
  - (a) Final report (draft).
  - (b) Work sheets and notes.
  - \* (c) List of plant officials and personnel inventory (part Japanese).
  - (d) Photographs and negatives.
- (9) Nippon Chemical Industry Company, Ltd.—Tokyo:
  - (a) Flow charts of the plant.
  - \* (b) Factory arrangement plan (Japanese).
  - \* (c) Plant history (Japanese and English).
  - \* (d) Plot plan (Japanese).
- (10) Japan Iron and Steel Company—Yawata:
  - (a) Final report (draft).
  - (b) Bomb damage report.
  - (c) Production data.
  - \* (d) Flow chart (part Japanese).
  - (e) List showing distribution of by-products (Japanese).
  - (f) Manufacturing process diagram (Japanese).
  - (g) Operating diagram of coke oven (Japanese).
  - \* (h) Coal products list—Pamphlet (Japanese).
    - (i) Inter-departmental report on company organization.
    - (j) Analysis of coal purchased.
  - \* (k) Method of testing coking power (part Japanese).
  - (l) Notes.



- \* (m) Plot plan and bomb damage (Japanese).
  - \* (n) Parent report of survey of the chemical industry (part Japanese).
- (11) Nippon Nitrogen Fertilizer Company—Minamata:
- (a) Work sheets.
  - (b) Physical damage survey.
  - (c) Oil and chemical questionnaire with Japanese reply giving complete history of the organization.
  - (d) Photographs and negatives.
  - (e) Reply to questionnaire.
  - (f) Bomb plots and bomb damage.
  - (g) Plot plan of air-raid shelters.
  - (h) Flow diagrams.
- (12) Mitsui Chemical Industry Company—Miike dyestuff works—Omuta:
- \* (a) Plant diagrams (Japanese).
- [USB-13 Roll Nos. 261-261A] -----
- \* (b) Plant flow chart (part Japanese).
- [USB-13 Roll No. 261A] -----
- (c) Yield and quality of products.
  - (d) Photographs.
  - (e) Final report (draft).
  - (f) Work sheets.
  - (g) Capitalization of plant.
  - (h) Reports on number of employees by each plant.
  - (i) Production of figures.
  - (j) Physical damage report.
  - \* (k) Plot plan of Mitsui Complex (Japanese).
  - (l) Plot plan of Miike Dyestuff.
  - (m) Bomb plot and physical damage.
  - (n) Chemical process charts.
  - (o) Production data (part Japanese).
  - (p) Production data (part Japanese).
  - (q) Response to questionnaire.
- (13) Mitsui Chemical Company—Hayagane and Tamana plants: [早鐘]
- (a) Plot plan of Hayagane plant.
  - (b) Production data—Hayagane plant.
  - (c) Flow diagrams.

- (d) Plot plan of Tamana plant.
  - (e) Production data—Tamana plant.
- (14) Mitsui Chemical Company—Mikawa:
- (a) Production records (Japanese).
  - \* (b) Location plan for bromine plant (Japanese).
  - \* (c) Plot plan—bromine extraction plant (part Japanese).
- (15) Mitsui Light Metal Company—Omuta:
- (a) Work sheets.
  - (b) Production data.
  - (c) Number of personnel employed by month.
  - (d) Flow sheets.
  - (e) Outline of operation (Boyer process).
  - (f) Plot plan of air-raid shelters and fire hydrants (Japanese).
- (16) Mitsubishi Chemical Company—Yawata:
- (a) Work sheets.
  - (b) Production data (Japanese).
  - (c) Bomb damage report—monetary and physical..
  - \* (d) Plant layout (Japanese).
  - \* (e) Diagram of hydrants and water lines in main plant (Japanese).
  - (f) Flow sheets of by-products.
  - (g) Building layout.
  - \* (h) Spot of bomb dropping (Japanese).
  - \* (i) Plot plan (Japanese).
  - \* (j) Proposed manufacturing plan (Japanese).
  - (k) Photographs and negatives.
- (17) Mitsubishi Chemical Company—Makiyama:
- (a) Final report (draft).
  - (b) Work sheets.
  - (c) Personnel data.
  - (d) Production data.
  - \* (e) Bomb damage data and bomb plot (part Japanese).
  - \* (f) Plot plan showing water mains (part Japanese).
  - \* (g) Plot plan showing plants and buildings (Japanese).
  - (h) Flow diagrams.
  - (i) Photographs and negatives.
  - (j) Reply to questionnaire (Japanese).

- (18) Mitsui Mining Company—Omuta:
- (a) Notes and work sheets.
  - (b) Report of coal furnished the plant.
  - (c) Output of coal.
  - (d) Electric power demand.
  - (e) Report of daily water supply.
  - (f) Report on how production is affected by damage.
  - \*(g) Bomb plots and bomb damage (Japanese).
- (19) Nippon Synthetic Chemical Industry—Ogaki:
- (a) Final report (draft).
  - (b) Work sheets and notes.
  - (c) Report on quantities of main raw materials.
  - (d) Report on quantities of products.
  - (e) Flow sheet of production.
  - (f) Personnel data (Japanese).
  - (g) Plot plan—bomb damage (Japanese).
  - (h) Photographs and negatives.
- (20) Nissan Chemical Company—Tokyo:
- (a) Notes and work sheets.
  - (b) Production data.
  - (c) Plot plan.
  - (d) Parent company organization.
- (21) Nitchitsu Chemical Industry Company—Nobeoka:
- (a) Work sheets and notes.
  - (b) Personnel data.
  - \*(c) History of the company (Japanese).
  - (d) Production data (Japanese).
  - (e) Bomb damage reports.
  - (f) Process flow sheets.

- \*(g) Flow sheets and flow diagrams showing general arrangement of the plants and manufacturing processes (part Japanese).
  - (h) Reply to questionnaire.
  - \*(i) Sulphuric acid report (part Japanese).
- (22) Oriental High Pressure Industry Company—Omuta:

- (a) Flow sheets and flow diagrams showing general arrangement of plant and manufacturing processes.
  - \* (b) Flow sheets and diagrams (part Japanese).
  - (c) Notes and work sheets.
  - \* (d) General outline of the plant (Japanese).
  - (e) Reply to questionnaire (Japanese).
  - (f) Production data (Japanese).
  - (g) Bomb damage report and data.
  - (h) Construction plans.
  - (i) Photographs and negatives.
- (23) Oriental High Pressure Industry Company—Shimonoseki:
- (a) Notes and work sheets.
  - (b) Production data.
  - (c) History of plant.
  - (d) Reply to questionnaire.
  - (e) Plot plan and flow sheet (Japanese).
- (24) Riken Metal Company—Ube:
- (a) Notes and work sheets.
  - (b) Raw materials and products, by year.
  - (c) Production data.
  - (d) Bomb damage report.
  - \* (e) Plant layout with bomb shelters (Japanese).
  - \* (f) Flow diagram (Japanese).
  - (g) Reply to questionnaire.
  - (h) Employment data (Japanese).
- (25) Showa Electrical Chemical Industry—Kawasaki:
- \* (a) History of the plant (English and Japanese).
  - (b) Future plans for restoration.
  - \* (c) Bomb damage report (Japanese).
  - \* (d) Flow diagram (Japanese).
  - (e) Production data.
- (26) Sumitomo Chemical Company—Niihama:
- (a) Notes and work sheets.
- [USB-13 Roll No. 262A] -----
- (b) List of aluminum consumers.
  - (c) Receipts (Japanese).

- (d) Data for hexogen plant.
  - \*(e) Production data (Japanese).
  - \*(f) Bomb damage data (Japanese).
  - \*(g) Quantity of aluminum (Japanese).
  - \*(h) History of plant (Japanese).
  - \*(i) Plot plans and flow sheets (part Japanese).
  - (j) Photographs and negatives.
  - (k) Notes, worksheets and flow charts.
  - (l) Reply to questionnaire.
  - \*(m) Company organization, personnel data and outline of operations (part Japanese).
  - (n) Bomb damage report.
  - (o) Report on purchase of raw materials (Japanese).
  - (p) Production data.
  - (q) Plot Plans, flow sheets and flow diagrams.
- (27) Sumitomo Chemical Company—Osaka:
- (a) Work sheers and negatives.
  - (b) Report and list of raw materials.
  - (c) Reply to questionnaire.
  - (d) List of officials and employment data.
  - (e) Bomb damage report.
  - \*(f) Plot plans, flow sheets, and flow diagrams (part Japanese).
  - \*(g) Inter-company report (Japanese).
  - (h) Negatives.
- (28) Titanium Industry Company—Ube:
- (a) Notes and work sheets.
  - (b) Production data.
  - (c) Bomb damage.
  - \*(d) Plant layout (Japanese).
  - (e) Photographs and negatives.
- (29) Toa Synthetic Chemical Company—Nagoya.
- (a) Notes and work sheets.
  - (b) Brief description o f plant.
  - (c) Defense measures and bomb damage.
  - (d) Receipt of raw materials.
  - (e) Production data.

- \* (f) Plot plans, flow sheets and flow diagrams (Japanese).
- (g) Photographs and negatives.
- (30) Toa Chemical Company—Sakai:
  - [USB-13 Roll Nos. 262A-262B] -----
  - (a) Notes and work sheets.
  - [USB-13 Roll No. 262B] -----
  - \* (b) Flow diagrams (Japanese).
- (31) Toho Chemical Company—Nagoya:
  - (a) Work sheets and notes.
  - (b) Bomb damage.
  - (c) Plot plans, flow sheets and flow diagrams.
  - (d) Photographs and negatives.
- (32) Tokai Electrode Manufacturing Company—Wakamatsu:
  - (a) Work sheets.
  - \* (b) Plot plans and flow sheet (part Japanese).
  - (c) Photographs and negatives.
- (33) Tokuyama Soda Company:
  - (a) Notes and work sheets.
  - (b) Production data.
  - (c) Personnel data.
  - (d) Flow diagram and bomb plot.
- (34) Toyo Soda Industry Company—Tokuyama:
  - (a) Notes and work sheets.
  - (b) Production data.
  - (c) Reply to questionnaire.
  - (d) Analysis of main products.
  - (e) Customers for main products.
  - (f) Flow diagrams, flow charts and bomb plots.
- (35) Ube Industrial Nitrogen Production Company—Ube:
  - (a) Notes and work sheets.
  - (b) Production data.
  - (c) Bomb damage and air raids.
  - (d) Reply to questionnaire.
  - (e) Photographs and negatives.
  - (f) Flow charts, flow diagrams and plot plans (part Japanese).
- (36) Ube Soda Industry—Ube:

- (a) Notes and work sheets.
  - (b) General description of plant.
  - (c) Employment data.
  - (d) Production data.
  - \* (e) Flow diagrams and flow charts (part Japanese).
  - (f) Photographs and negatives.
- b. Company and plant, reports—explosives:
- (1) Nippon Explosive Manufacturing Company—Asa:
    - (a) Notes and work sheets.
    - (b) General outline and history of the plant.
    - (c) Production data.
  - (2) Tokyo Second Army Arsenal—Morizane: [森実 (大分県山国) ]
    - (a) Notes and work sheets.
    - \* (b) Plan of acid and explosive plant (part Japanese).
    - \* (c) General outline and history of plant (part Japanese).
  - (3) Tokyo Second Army Arsenal—Arao:
    - (a) Notes and work sheets.
    - \* (b) Reply to questionnaire (part Japanese).
    - \* (c) Personnel data (part Japanese).
    - (d) Drawings of manufactural flow for explosives.
    - \* (e) Flow charts and general arrangement of the factory (part Japanese).
  - (4) Tokyo Second Army Arsenal—Uji:
    - \* (a) Ministerial questionnaire (part Japanese).
    - \* (b) Expansion planning for TNT (Japanese and English).
    - \* (c) Health index of employees (Japanese and English).
    - (d) Inventory—explosives materials.
    - \* (e) Shortages of all materials (Japanese document).
    - (f) Inventory—ammonia.
    - (g) Inventory—nitric acid.
    - (h) Inventory—sodium hydroxide.
    - (i) Inventory—toluene.
    - (j) Inventory—sulphuric acid.
    - (k) Production by principal plants—nitric acid.
    - \* (l) Plans for explosives dispersion (Japanese and English).
    - (m) Inventory—ammonia in solution.
    - (n) Inventory—TNT.

- (o) Consumption—ammonia.
  - (p) Consumption—nitric acid.
  - (q) Consumption—sulphuric acid.
  - (r) Consumption—sodium hydroxide
  - (s) Consumption—toluene.
  - (t) Capacity of plants—Second Arsenal.
  - \*(u) Inventory—chemical warfare (part Japanese).
  - (v) History of Second Arsenal (Japanese document).
  - (w) Notes and work sheets.
  - (x) High explosives production data.
  - (y) Process flow charts.
  - \*(z) Table of machines (Japanese).
- (5) Hayagane Explosive plant:
- (a) Work sheets.
  - \*(b) Flow diagrams and plot plans (part Japanese).
- (6) Naval arsenals:
- (a) Work sheets and notes.
  - (b) Photographs and negatives.
  - (c) Toluene report.

----- [USB-13 Roll No. 263] -----

- (7) Nitchitsu Chemical Company (Explosives):
- (a) Flow sheets.
- (8) Explosives summary:
- (a) Industrial explosives.
  - (b) Production record—civilian explosives.
  - (c) Production of explosive accessories.
  - (d) Consumption of explosives.
  - (e) Smokeless and synthetic explosives records. ,
  - (f) Inventory of munitions companies.

----- [USB-13 Roll Nos. 263-263A] -----

50. Chemicals in Japan's War—appendix to the report of the Oil and Chemical Division.

----- [USB-13 Roll No. 263A] -----

51. Oil in Japan's War (final report and original draft).

----- [USB-13 Roll No. 263B] -----

a. Plant reports:

- (1) Daikyo Oil Company—Yokkaichi:



- (a) Report on Yokkaichi refinery.
  - (b) Production for refineries.
  - \*(c) Plot plan of Daikyo refinery (Yokkaichi) (Japanese).
  - \*(d) Crude receipts (Japanese).
  - \*(e) Bomb Plot—Daikyo Refinery (Yokkaichi) (Japanese).
  - \*(f) Flow diagram—Combination Unit—Daikyo refinery (Japanese).
  - \*(g) Flow diagram—Lube Plant—Daikyo refinery (Japanese).
  - (h) Photographs and negatives of Daikyo oil refinery (Including views of the H<sub>2</sub>O<sub>2</sub> plant).
- (2) Army fuel depot—Bofu branch:
- (a) Plant inspection report.
  - (b) Report on Bofu Army fuel depot.
  - \*(c) Inventory of grounds, buildings and equipment (Japanese).
  - (d) Proposed description of equipment.
  - \*(e) Japanese history of the Bofu branch (Japanese).
  - \*(f) Plot plan and bomb plot (Japanese).
  - \*(g) Flow diagram (Japanese).
- (3) Iwakuni Army Refinery:
- (a) Plant inspection report.
  - (b) Final report.
  - (c) Bomb damage summary.
  - (d) Crude receipts.
  - (e) Refinery units and processes.
  - (f) Crude oil receipts—imported.
  - (g) Organization of Army fuel—GHQ.
  - (h) Inspection report—Professor Bowman.
  - (i) Interrogation—plant operating officials.
  - (j) Petroleum specifications.
  - (k) Production processes and flow diagrams (part Japanese).
  - (l) Production records.
  - (m) Plant organization and personnel.
  - (n) Source of equipment and design.
  - (o) Bomb damage—monetary.
  - (p) Air-raid warning plan.
  - (q) Outline and history of Iwakuni refinery.
  - \*(r) Detail of physical damage (Japanese).

- (s) Prints and negatives of Iwakuni refinery.
  - (t) General lay-out and plot plan.
  - (u) Flow diagram—Iso octane plant.
  - (v) Flow diagram—gas plant.
  - \*(w) Plot plan and flow diagrams of lube plant (Japanese).
  - \*(x) Flow diagram—alcohol plant (Japanese).
  - \*(y) Flow diagram and plot plans—catalytic cracking plant (Japanese).
  - \*(z) Flow diagram—thermal cracker (Japanese).
  - \*(aa) Flow diagram—coke plant (Japanese).
  - \*(bb) Flow diagram—topping plant (Japanese).
- (4) Imperial Fuel Industry Company—Ube:
- (a) Final report.
  - (b) Plant inspection report.
  - (c) Physical damage report.
  - \*(d) Flow diagram—synthetic oil plant (Japanese).
  - (e) Process description and operation.
  - (f) Petroleum specification.
  - (g) Bomb damage—monetary.
  - (h) Daily production report.
  - (i) Prints and negatives.
  - (j) Bomb plot (Japanese).
  - (k) Plot plan of bomb damage.
  - \*(l) Plot and location plan (Japanese).
  - \*(m) Plot plan of bomb damage (Japanese).
  - \*(n) Bomb damage to refinery (Japanese).
  - \*(o) Bomb plot of Lurgi plant (Japanese).
  - \*(p) Plot plan—Lurgi plant (Japanese).
  - \*(q) Sketch of Synthetic NH<sub>3</sub> plant (Japanese).
  - \*(r) Flow diagram—synthetic gasoline plant (Japanese).
  - \*(s) Plot plan—Kopper's coke plant (Japanese).
  - \*(t) Plot plan—CO<sub>2</sub> converters (Japanese).
  - \*(u) Flow diagram—Lurgi plant (Japanese).
  - \*(v) Flow diagram—hydro cracking plant (Japanese).

----- [USB-13 Roll No. 264] -----

- (5) Koa Oil Company—Otake:
- (a) Final report.

- (b) Plant inspection report.
  - (c) Physical damage report.
  - (d) Interrogations of plant officials.
  - (e) Outline, summary and inventory of the Koa Oil Company.
  - (f) Bomb plot.
  - (g) Plot plan and bomb plot.
  - (h) Prints and negatives.
- (6) Maruzen Oil Company—Shimotsu:
- (a) Final report.
  - (b) Plant inspection report.
  - (c) Physical damage report.
  - (d) Design capacities of distillation units.
  - (e) Petroleum supplies and inventories.
  - (f) Bomb damage summary.
  - \* (g) Refinery processes and flow diagrams (part Japanese).
  - (h) General discussion of equipment, processes and operations.
  - \* (i) Historical outline and production record (Japanese).
  - \* (j) Refinery plot plan (Japanese).
  - \* (k) Refinery lay-out (,Japanese).
  - \* (l) Bomb plot (Japanese).
  - \* (m) Refinery process-flow diagram (Japanese).
  - (n) Prints and negatives.
- (7) Mitsubishi Oil Company—Kawasaki:
- (a) Plant inspection report.
  - (b) Final report.
  - (c) Ordnance report—physical damage.
  - (d) Historical outline of the Mitsubishi Oil Company.
  - (e) Air attack data.
  - (f) Inventory of refinery equipment.
  - (g) Crude oil and refined products, production record and inventory.
  - (h) Refinery through-put records.
  - (i) Flow diagram—light crude oil.
  - (j) Flow diagram—heavy crude oil.
  - (k) Notes taken by USSBS Inspecting Team.
  - \* (l) Bomb plots (Japanese).
  - \* (m) Plot plan (Japanese).

- (n) Plant lay-out.
  - \* (o) Refinery flow diagram (Japanese).
  - (p) Flow diagrams—treating plants.
  - \* (q) Refinery control processes (Japanese).
  - (r) Prints and negatives.
- (8) Second Naval Fuel Depot—Yokkaichi:
- (a) Final report.
  - (b) Bomb damage summary.
  - (c) Process descriptions.
  - (d) Notes taken by USSBS Inspecting Team.
  - (e) Interrogations—plant officials.
  - \* (f) Outline for "Red Book" (part Japanese).
  - (g) Plant flow diagrams.
  - (h) Summary of processes and equipment.
  - (i) Crude oil and finished products inventory.
  - (j) Bomb damage—monetary.
  - (k) Bomb damage summary.
  - (l) Damage assessment report.

----- [USB-13 Roll No. 264A] -----

- (m) Plan of foamite system.
- (n) Complete property inventory—Second Naval fuel depot.
- (o) Inventory of arms and ammunition.
- (p) List of materials.
- (q) Description of refinery facilities.
- (r) Plot plan—tank farm.
- (s) Bomb plot.
- (t) Plot plan of bomb damage.
- \* (u) Proposed flow diagrams (Japanese).
- \* (v) General plan of the depot (Japanese).
- \* (w) Map of Japanese assessment of damage.
- (x) Plan of railroad track system.
- (y) Hydrographic map of the Utsube River at the depot.
- (z) Map showing location of warehouses.
- (aa) Map of electrical distribution system.
- (bb) Plan of the docks.
- \* (cc) Plans of Butanol Iso octane plant (Japanese).

- (dd) Plot plan of the hydrogen peroxide plant.
  - (ee) Bomb damage to tank farm.
  - \* (ff) Plan of the Nagoya plant, (Japanese).
  - (gg) Plan of steam piping.
  - (hh) Damage to electrical system.
    - (ii) Plan showing location of air-raid shelters and water reservoir.
    - (jj) Plan of water system.
  - (kk) Damage to oil pipe lines.
  - \* (ii) Plot plan of AA gun positions (Japanese).
  - \* (mm) Lube oil refinery plant—booklet (Japanese).
  - (nn) Flow diagrams—butanol plant.
  - (oo) Photographs and negatives.
- (9) Third Naval fuel depot—Tokuyama:
- (a) Final report.
  - (b) Notes taken by USSBS Inspecting Team.
  - (c) Physical damage report.
  - (d) Production, consumption, and inventories of petroleum.
  - (e) Specifications for refined products.
  - (f) Bomb damage summary.
  - (g) Complete inventory of depot.
  - (h) Refinery production schedule prior to shut-down.
  - (i) Process control data.

----- [USB-13 Roll No. 264B] -----

- (j) Flow diagrams.
- \* (k) Bomb plot (Japanese).
- \* (l) Refinery plot plan (Japanese).

----- [USB-13 Roll No. 264A] -----

- (m) Photographs and negatives.

----- [USB-13 Roll No. 264B] -----

- (n) Damage assessment report.
- (10) Nippon Mining Company—Funakawa:
- (a) Interrogations of plant officials.
  - (b) Plant production record.
  - (c) Plant employment record.
  - (d) General history of plant.
- (11) Nippon Motor Oil Company—Ube:

- (a) Notes taken by USSBS Inspecting Team.
  - (b) Flow diagram—synthetic motor oil.
  - (c) Plot plans of the light oil plant.
  - (d) Plot plans of the heavy oil plant.
  - (e) Plot plan of bomb damage.
  - \* (f) Flow diagram—synthetic light oil (Japanese).
- (12) Nippon Oil Company—Akita refinery:
- (a) Final report.
  - (b) Notes taken by USSBS Inspecting Team.
  - (c) Crude oil and finished products inventory.
  - (d) Summary of air-raid damage.
  - (e) Analysis of bomb fall.
  - (f) List of refinery apparatus.
  - (g) Flow diagrams.
  - (h) Table showing refinery equipment.
  - (i) Production records.
  - (j) Bomb plot,
  - \* (k) Plot plan of refinery (Japanese).
  - (l) Prints and negatives.
- (13) Nippon Oil Company Amagasaki:
- (a) Final report.
  - (b) Notes taken by USSBS Inspecting Team.
  - (c) Ordnance report.
  - (d) Bomb damage report.
  - (e) History of refinery (English translation).
  - \* (f) Balance sheet-value of refinery (part Japanese).
  - (g) Table of important equipment.
  - (h) List of directors.
  - (i) Employment record,
  - (j) Petroleum specifications.
  - (k) Tank farm inventory.
  - \* (l) Plan of tank farm (Japanese).
  - (m) Flow diagrams.
  - (n) Bomb plots.
  - (o) Refinery layout plan.
  - (p) Intelligence material.

- (q) Prints and negatives.
- (14) Nippon Oil Company-Kudamatsu:
  - (a) Final report
  - (b) Physical damage report.
  - (c) Notes taken by USSBS Inspecting Team.
  - (d) Crude oil inventory.
  - (e) Production inventory,
  - (f) Petroleum specifications.
  - (g) Bomb damage summary.
  - (h) Production schedule.
  - (i) List of plant areas.
  - (j) Personnel records
  - (k) Imported crude record.
  - (l) Production records.
  - \*(m) Bomb damage summary (Japanese).
  - \*(n) Bomb plot of refinery (Japanese).
  - (o) Bomb plot of steel works.

----- [USB-13 Roll No. 264C] -----

- \*(p) Diagram showing plant water system (Japanese).
- \*(q) Plant map showing air-raid shelters (Japanese).
- \*(r) General flow diagram (Japanese).
- (s) Negatives of plant.
- \*(t) Lubricating oil treating plant (Japanese).
- \*(u) High vacuum distillation plant (Japanese).
- (v) Cross cracking unit.
- \*(w) Kerosene and gas oil treating plant (Japanese).
- \*(x) Gasoline treating plant (Japanese).
- \*(y) Asphalt redistillation plant (Japanese).
- \*(z) Foster Wheeler two-stage crude oil distillation plant (Japanese).
- \*(aa) Pressed oil continuous distillation plant (Japanese).
- \*(bb) Ethyl gasoline preparation unit (Japanese).
- \*(cc) Paraffin wax plant (Japanese).
- \*(dd) Lube oil refinery plant (Japanese).
- \*(ee) NNC cracking plant (Japanese).
- \*(ff) Pressure re-run distillate unit (Japanese).
- \*(gg) Cracked gas fractionating plant (Japanese).

- (15) Nippon Oil Company—Tsurumi refinery:
  - (a) Final report.
  - (b) Air attack and bomb damage.
  - (c) Production data.
  - (d) Crude oil receipts.
  - (e) Flow diagrams showing cracking and topping units.
  - (f) Negatives.
  - (g) Japanese blueprints of Nippon Oil Company refineries.
- (16) Nippon Oil Conversion Company—Kawasaki:
  - (a) Report by company officials.
  - (b) General description of plant.
  - (c) Bomb damage assessment report.
  - (d) Revised plot plan.
  - (e) Bomb plot.
  - (f) Intelligence summary.
- (17) Nippon Paraffin Refining Company—Tokuyama:
  - (a) Final report.
  - (b) Notes of USSBS Inspecting Team.
  - (c) Flow diagram of plant and production and consumption figures.
  - \* (d) Map of plant and vicinity (Japanese).
  - (e) Map showing plant fire fighting installations.
- (18) Nippon Synthetic Oil Company—Omuta:
  - (a) Final report.
  - (b) Notes taken by USSBS Inspecting Team.
  - (c) Production data.
  - (d) Air-attack data.
  - (e) Flow sheet—production per day.
  - (f) Prints and negatives.
  - (g) Flow sheets.
  - \* (h) Bomb plot.
    - (i) Production data.
    - (j) Tables of principal products.
    - (k) A list of the length of sojourn for the German engines.
    - (l) Bomb damage.
  - (m) Number of personnel employed.
  - (n) List of working records.



- (19) Nissan Liquid Fuel Company :
- (a) Final report.
  - (b) Notes taken by USSBS Inspecting Team.
  - (c) Historical summary of plant.
  - (d) Flow sheet of low-temperature carbonization plant.
  - (e) Map showing general arrangement of Wakamatsu plant.
  - (f) Flow sheet of entire plant.
  - (g) Photographs and negatives of plant.
  - \* (h) General layout of plant (Japanese).
- (20) Showa Oil Company—Hirazawa refinery:
- (a) Interrogation of Japanese officials.
  - (b) Production list.
  - (c) Chart showing capacity of plant.
  - (d) Flow diagram.

----- [USB-13 Roll No. 265] -----

- (21) Showa Oil Company—Kawasaki refinery:
- (a) Process information and production records.
  - \* (b) Report on meeting with company officials (part Japanese).
  - (c) Plot plan and bomb damage.
  - (d) History and general description of plant.
  - (e) List of plant officials.
  - (f) Negatives.
- (22) Saitozaki (Rising Sun) Petroleum Center—Fukuoka:
- (a) History and general outline of the plant.
  - (b) Map of Fukuoka and vicinity.
- (23) Toa Fuel Company—Wakayama:
- (a) Final report.
  - (b) Notes taken by USSBS Inspecting Team.
  - (c) Air-raid data.
  - (d) Flow diagram—synthetic lube plant.
  - (e) Monthly production figures.
  - (f) Photographs and negatives.
  - (g) Plant history.
  - (h) Flow diagrams of the entire plant.
  - (i) Plans of Japanese air-raid protection services.
  - \* (j) Plan of underground plant (Japanese).

- \* (k) Map showing bomb damage (Japanese).
  - (l) Plot plan of the facilities of the refinery (Japanese).
  - (m) Bomb plot (Japanese).
- (24) First Naval Fuel Depot:
  - (a) Equipment record.
  - (b) Plan of the depot.
  - (c) Inventory of materials.
  - (d) Items of research.
- (25) Liquid Fuel Supply:
  - (a) Liquid fuel supply and allocation plan—1942 and 1943.
  - (b) Military analysis questionnaire No. 19—Japanese Navy Air Force.
- b. General data and ministerial files:
  - (1) Government organization.
    - (a) History of government organization.
    - (b) Cabinet planning boards.
    - (c) Organization of the planning bureau.
    - (d) Petroleum Control Association.
    - (e) Administrative Bureau.
    - (f) Alcohol Control Association.
    - (g) Army and Navy Petroleum Committee.
  - \* (h) Bureau of Chemistry (part Japanese).
    - (i) Commerce and industry.
    - (j) Chemical Bureau.
  - (2) Government Planning.
    - (a) Expansion and planning of the industry—alcohol.
    - (b) Government-sponsored plans.
    - (c) Government encouragement.
    - (d) Cabinet planning board plans.
    - (e) Provisional articles of the committee for postwar petroleum policy in Japan.
    - (f) Seven-year plan of synthetic oil production.
    - (g) Allocations of petroleum and synthetic oils.
  - \* (h) Report on principal materials production (part Japanese).
    - (i) Ministry of Commerce and Industry report.
    - (j) Army Ministry plans.
  - (3) Industry control associations—oil:

- (a) Report on present economic control and policies.
  - (b) Capitalization of operating company.
  - (c) Statements of profit and loss for operating company.
  - (d) The Imperial Fuel Development Joint Stock Company.
  - (e) The oil refiners conference.
  - (f) Oil Refining Control Board Law.
  - (g) Army-Navy Petroleum Committee.
  - (h) Trade organizations
- (4) Industry Control Association-chemicals:
- (a) Imperial government expansion plans.
  - (b) Synthetic Organic Chemical Law.
  - (c) List of members—Chemical Industry Control Association.
  - (d) Organization of the Chemical Industry Control Association.
  - \* (e) Summary of the chemical industry (part Japanese ).
  - (f) Outline of the Chemical Industry Control Association.
  - (g) USSBS report on the CICA.
  - (h) USSBS report on the functions of the CICA.
- (5) Names of Japanese business officials and refineries:
- (a) List of company officials of the Oil Control Association.
  - (b) Petroleum ration board members.
  - (c) Petroleum industry officials.
  - (d) Fuel Bureau members.
  - (e) Chemical industry officials.
  - (f) Alcohol Control Board.
  - (g) List of petroleum refineries.
- (6) General information about large Japanese companies:
- (a) Capitalization records.
  - (b) Report on Chemical Industries (Japanese) as requested by USSBS questionnaire.
  - (c) Report on Chemical warfare (Japanese).
- (7) Labor:
- (a) Manpower and labor supplies—USSBS report.
  - (b) Laborers in chemical works.
  - (c) Labor in civilian oil refineries.
  - (d) Labor in synthetic oil plants.
  - (e) Labor report of Nippon Fuel Development Company.

- (f) Labor report of Petroleum Control Association.
  - (g) Fuel Bureau report.
  - (h) Specialists for southern oil production—IJN.
  - (i) Labor in alcohol industry.
  - (j) Labor in petroleum industry—IJN.
  - (k) Labor shortages.
  - (l) Labor Imperial Fuel Company.
- (8) Transportation:
- (a) Civilian tanker situation.
  - (b) List of tanker tonnages—Navy.
  - (c) Distribution of tankers.
  - (d) Tankers before the war.
  - (e) Tanker operation at outbreak of war.
  - (f) Transportation of oil stocks.
  - (g) Shipping—proposed and actual.
  - (h) Limitation imposed by lack of transportation facilities.
  - (i) USSBS report on tank cars.
  - (j) Railroad transportation.
  - (k) Oil tank cars.
- (9) Refineries:
- (a) List of refineries and capacities.
  - (b) List of civilian refineries.
  - (c) List of active refineries 1941-45.
  - (d) Descriptive data of eight refineries.
  - (e) Operation of Mitsubishi Oil Company.
  - (f) Report on Army refineries.
  - (g) Report on Iwakuni Army refinery.
  - (h) Maruzan Oil Company report.
  - (i) Report from the Fuel Bureau.
  - (j) Present status of civilian petroleum industry.
  - (k) Capacities of refineries.
  - (l) Nippon oil Company refineries.
  - (m) Fuel Bureau résumé.
- (10) Refinery production records:
- (a) Inventory of various foreign crudes—Fuel Bureau.
  - (b) Throughput of various refineries.

(c) Production figures—Naval fuel depots.

----- [USB-13 Roll No. 265A] -----

- (d) Refinery capacities.
- (e) Total yearly crude throughput.
- (f) Nippon Oil Company refinery records.
- (g) Toa Oil records—production records.
- (h) Maruzen Oil Company—production records.
- (i) Showa Oil Company—production records.
- (j) Daikyo Petroleum Company—production records.
- (k) Koa Oil Company—production records.
- (l) Nippon Mining Company—production records.
- (m) Petroleum Control Association records.
- (n) Production records—Mitsubishi Oil Company.
- (o) Production planning—Fuel Bureau.
- (p) Japanese Petroleum Facilities report.

(11) Petroleum Specifications:

- (a) Navy specifications.
- (b) Navy wartime specifications.
- (c) Army standards.
- (d) Fuel Bureau specifications.
- (e) Petroleum Control Association specifications.
- (f) NSTM specifications.
- (g) Second Naval fuel depot tests.

(12) Crude oil—imports, production, and exports.

- (a) Production records of the Joint Enterprise Company.
- (b) Fuel Bureau estimates of production 1941-45.
- (c) Imperial Oil Company—crude oil statistics.
- (d) Production—Kyodokigyo Oil Company.
- (e) Crude oil allotments to civilians.
- (f) Japan crude oil production—Imperial Oil Company.
- (g) Domestic crude production.
- (h) Imports from occupied areas.
- (i) Crude production—Army-Navy.
- (j) Report by Imperial Oil Company.
- (k) Annual imports—Fuel Bureau.
- (l) Imports of southern crude.

- (m) Index of Japanese oil fields.
  - (n) Effect of the war on the industry.
  - (o) Imports—Control Association.
  - (p) Exports—Fuel Ministry.
  - (q) Stocks—Navy.
  - (r) Aspects of petroleum imports—Occupation Government.
- (13) Decoy Petroleum Storage:
- (a) Report on Atada Island—USSBS.
- (14) Oil storage depots:
- (a) Map of producing and storage areas.
  - (b) List of plants and equipment.
  - (c) Naval storage capacity.
  - (d) Construct description of naval tankage.
  - (e) Maps of Army fuel storage.
  - (f) List of storage areas.
  - (g) Yokosuka Navy fuel depot.
  - (h) Underground storage.
  - (i) Dates of fuel depots construction.
  - (j) Railroad tank cars.
  - (k) Fuel Bureau report.
  - (l) Petroleum Control Association report.
  - (m) Tabulation of storage.
  - (n) Notes, field inspection reports, and basic data as gathered and compiled by the USSBS.
- (15) Synthetic oil plants:
- (a) Index of synthetic oil plants.
  - (b) Process for manufacturing lube oil from rubber.
  - (c) Fuel Bureau report.
  - (d) Imperial fuel industry report.
  - (e) Hydrogenation developments.
  - (f) Coal liquefaction data.
  - (g) Alcohol synthesis.
- (16) Synthetics and substitutes for petroleum:
- (a) Production of lube oil from rubber.
  - (b) Alcohol for motor fuel.
  - (c) Synthetic aviation lubes.

- (d) Production of synthetic oil plants.
  - (e) Fuel Bureau production records.
  - (f) Fuel Bureau estimates.
  - (g) Records of Commerce Ministry.
  - (h) Synthetic oil report—Fuels Ministry.
  - (i) Navy Bureau report.
  - (j) Present state of waste oil refineries.
  - (k) Substitute fuels.
  - (l) Construction report on synthetic oil plants.
- (17) Synthetic petroleum from pine roots:
- (a) USSBS—report and summary.
  - (b) Investigation of pine root oil plants—Yamaguchi Prefecture.
  - (c) Forestry Bureau report.
  - (d) USSBS+team report—Shikoku.
  - (e) Fuel Bureau report.
  - (f) Mitsubishi report.
- (18) Fuel inventories and war losses:
- (a) Estimated stocks on hand at start of war.
  - (b) Stock report—Mitsubishi Oil Company.
  - (c) Stocks of refined oils—Navy Bureau.
  - \* (d) Graphs of inventory losses through the war (part Japanese).
  - (e) Inventories—Petroleum Control Association.
  - (f) Diesel and fuel oil report—Petroleum Distribution Company.
  - (g) Alcohol inventories.
  - (h) Stocks on hand—Home Islands.
  - (i) Navy Ministry report.
  - (j) Kure Naval inventory.
  - (k) Navy stored fuel.
  - (l) Estimated monthly losses.
  - (m) Percentage of storage capacity lost.
  - (n) Effects of fuel shortages.
  - (o) Petroleum Association report on war losses.
  - (p) Oil Control Association report.
- (19) Bomb damage and general bombing data:
- (a) Chemical plants hit by incendiaries.
  - (b) Effect of the war on the chemical industry.

- (c) Defense measures of the chemical industry.
  - (d) Weapon effectiveness—Japanese evaluation.
  - (e) Twentieth Air Force targets.
  - \* (f) Japanese report on bomb damage
  - (g) Air raid damage—Ube.
  - (h) List of refineries.
  - (i) Japanese comments on bombing.
  - (j) Bomb analysis data.
  - (k) Refinery damage—Petroleum Control Bureau.
  - (l) Refinery equipment damaged in air raids.
  - (m) Effect of bombing on gas works.
  - (n) Petroleum storage areas attacked.
  - (o) Tankage destroyed.
- (20) Aerial attack—protective and defensive measures:
- (a) Notes and work sheets.
  - \* (b) Underground or dispersal program (Japanese).
  - \* (c) Effect of the war on industry (Japanese).
  - \* (d) Plans for underground factories (Japanese).
- (21) Oil requirements:
- (a) Army requirements—southern zone.
  - (b) Navy requirements.
  - (c) Charts of ware requirements.
  - (d) Fuel Bureau report.
  - (e) Petroleum Distribution Association report.

----- [USB-13 Roll No. 266] -----

- (22) Oil and Chemical Division interrogations:
- (a) Materials and shipping in war economy.
  - (b) Naval oil supply—Borneo.
  - (c) Allocations of petroleum and petroleum products.
  - (d) Army-Navy production of oil and over-all allocations.
  - (e) To determine available statistics at Army supply depots.
  - (f) Army explosives manufacture—Tokyo No. 2 Arsenal.
  - (g) Records and statistics for ammonia and nitric acid production.
  - (h) Statistics on chemicals for the aircraft industry.
  - (i) Progress by CICA and Bureau of industry on oil and chemicals.
  - (j) Interview of Mr. Horie and Mr. Kawakubo.



- (k) Interview of Vice-Admiral K. Morita.
- (l) Control of Japan's chemical industry.
- (m) Interview of Lieutenant Commander K. Hirai.
- (n) Property and oil sections-Joint Enterprise Company.
- (o) Tank car set-up.
- (p) Production and administration of oil in South.
- (q) Forestry report of the pine root oil section of Forestry Bureau.
- (r) Allocation of petroleum.
- (s) Interview of O. Saburo.
- (t) Materials and shipping in war economy.
- (u) Records and statistics—Bureau of Industry.
- (v) Records and statistics—Bureau of Chemical Industry.
- (w) Status of records on stores—IJN.
- (x) Interrogation of T. Nagase.
- (y) Salt situation.
- (z) Information available at air supply depots.
- (aa) South Sea production of oil.
- (bb) Functions of the Tokyo fuel office.
- (cc) Ibigawa Electro—Chemical Company.
- (dd) Bomb damage records—IJN arsenals.
- (ee) Summary alkali and abrasives industries
- (ff) Second naval refinery—Yokkaichi.
- (gg) Government regulation of war industries.
- (hh) Cooperation between military and war industries.
- (ii) Rubber as a raw material for making oil.
- (jj) Explosives.
- (kk) Oil statistics.
- (ll) Functions of the Chemical Control Association.
- (mm) Synthetic rubber—foreign influence.
- (nn) Tetraethyl lead.
- (oo) Records of Chemical Industry Control Association.
- (pp) Imperial Fuel Development Company.
- (qq) Functions of the Chemical Bureau.
- (rr) Navy fuel.
- (ss) Records for IJN explosives and propellants.
- (tt) Army-Navy Oil Committee.

- (uu) Interview of Colonel Masuda.
- (vv) Fuel monopoly.
- (ww) Chemical for Army (synthetic rubber).
- (xx) Army explosives manufacture.
- (yy) Allocation of Japanese tankers.
- (zz) Relations between private industry and the IJN.
- (aaa) Plant operations—Second Naval fuel depot.
- (bbb) Control and allocation of oil.
- (ccc) Navy oil plans in anticipation of war.
- (ddd) Plans of the Greater East Asia Ministry for the development of Japan.
- (eee) Army-Navy production of synthetic rubber.
- (fff) Plant operation-Second Naval fuel depot.
- (ggg) Organization of the Munitions Ministry.
- (23) Army organization:
  - (a) Organization chart. of Army Ministry.
  - (b) G-2 Memorandum showing chart of supplying organization of Army fuel.
  - (c) Army organizations—general.
  - (d) The Southern Oil Plan.
- (24) Navy organization:
  - (a) Navy chain of command.
  - (b) Oil production—Navy Bureau supplies.
- (25) War Ministry report on chemical production:
  - (a) Calcium carbide.
  - (b) Soda ash.
  - (c) Sodium chloride.
  - (d) Benzene.
  - (e) Naphthalene.
  - (f) Glycerine.
  - (g) Butyl alcohol.
  - (h) Ethylene glycol.
  - (i) Acetone.
  - (j) Explosives and propellants.
  - (k) Celluloid.
  - (l) Bromine.
  - (m) Ethanol.
  - (n) Carbon disulfide.

- (o) Pulp (for explosives).
  - (p) Oxygen.
  - (q) Vegetable and animal Oils.
  - (r) Fertilizers.
  - (s) Phosphorous (red and yellow).
  - (t) Sodium cyanide.
  - (u) Finished rubber products.
  - (v) Chemical warfare materials.
  - (w) Ammonia.
  - (x) Nitric acid.
  - (y) Sulfuric acid.
  - (z) Hexanitrodiphenylamine.
  - (aa) Caustic soda.
  - (bb) Chlorine (Liquid Cl<sub>2</sub>).
  - (cc) Toluene.
  - (dd) Methanol.
  - (ee) Trinitrotoluene.
- (26) Ethyl fluid and bromine:
- (a) Report on ethyl fluid plant—Arao.
  - (b) Report on bromine plant—Minato.
  - \* (c) Map of Arao (Japanese).
  - \* (d) Map of Minato (Japanese).
  - (e) Materials balance on Japanese operation.
  - \* (f) Flow plan of Minato Bromine Plant (Japanese).
- (27) Inorganic chemicals:
- (a) Fertilizers.
  - \* (b) Sodium cyanide (part Japanese).
  - \* (c) Phosphorus (part Japanese).
  - (d) Oxygen.
  - \* (e) Salt (part Japanese).
  - (f) Soda ash.
  - (g) Calcium cyanamide.
  - (h) Calcium carbide.
  - (i) Caustic soda.
  - (j) Chlorine.
- (28) Organic Chemicals :

- \* (a) Carbon bisulfide (part Japanese).
  - \* (b) Ethanol.
    - (c) Acetone.
    - (d) Butanol.
  - \* (e) Glycerine (part Japanese).
  - \* (f) Benzene and naphthalene (part Japanese).
  - \* (g) Methanol (part Japanese).
- (29) Ammonia and nitric acid:
- (a) Production records—chemical Bureau.
  - (b) USSBS—production and consumption report.
  - (c) Export and import balance.
  - (d) Munitions ministry report.
  - (e) Memorandum on concentration of nitric acid.
  - (f) Interrogation sheet and answers.
  - (g) Commerce and industry report.
  - (h) Nitric acid production and distribution records.
  - \* (i) Chemical Bureau Report (part Japanese).
- (30) Steel allocations:
- (a) Report on amount of steel to civilians.
  - (b) List of tank cars and survey of oil tankers.
  - (c) National allocation categories.
  - (d) Cabinet planning board plans.
  - (e) Steel delivered for use in fuel industries.
  - (f) Steel allocated to civilians.
  - (g) Report on materials.
- (31) Coal Requirements:
- (a) Statistical data pertaining to coal consumption.
- (32) Organic glass (plastics):
- (a) Production data.
  - (b) Report on organic glass present condition.
  - (c) Outline of establishment and expansion work of the organic glass factories.
  - \* (d) Reports on the inquiries concerning organic glass (Japanese).
- (33) Vegetable and animal fats and oils:
- (a) Notes and work sheets.
  - (b) Reply to USSBS questionnaire.
  - \* (c) Statistical data pertaining to imports and exports of oils and fats (part

Japanese).

- (d) Production data.
- (34) Japanese Textile Association:
  - (a) Production and consumption data.
  - (b) Report on rayon pulp stocks.
  - (c) List of rayon pulp mills.
  - \* (d) Actual distribution chart (part Japanese).
- (35) German information about Japan and German aid to Japan.
- (36) Japanese tanker data:
  - (a) Report on transportation between Japan and southern region.
  - (b) USSBS—report on seaborne freight.
  - (c) Navy photographs of Japanese shipping.
  - (d) Japanese shipping tonnage—United States Navy report.
  - (e) Notes and correspondence of USSBS members on Japanese shipping.
- (37) Petroleum data—Borneo:
  - (a) Report of Japanese operation of Balikpapan.
  - (b) Miri and Seria production.
  - (c) Balikpapan operation.
  - (d) Navy report—Borneo.
- (38) Petroleum data—Sumatra.
  - (a) Shipment of products from Palembang refinery.
  - (b) Throughput of Soengaigerong refinery.
  - (e) Summary of crude oil charged—Sumatra and Borneo.
  - (d) Sumatra production records.
  - (e) List of people killed in refineries.

----- [USB-13 Roll Nos. 266-266A] -----

- (39) Synthetic rubber:
  - (a) Production record.
  - (b) Interrogation—Captain Kirino, IJN.
  - (c) Commerce ministry report.
  - (d) USSBS—report on Japanese synthetic rubber.

----- [USB-13 Roll No. 266A] -----

- (40) Natural rubber:
  - (a) Crude rubber consumption.
  - (b) Report on rubber in the East India area.
  - (c) Dutch report on rubber in the Islands.

- (d) Notes for rubber report.
  - (e) Import survey.
  - (f) Import and export records.
  - (g) Rubber Control Association report.
- (41) Personnel of the Oil and Chemical Division in Japan.
52. Oil in Japan's War—Appendix (final report and original draft).  
 ----- [USB-13 Roll No. 267]-----
53. The Effects of Strategic Bombing on Japan's War Economy (Including Appendix A: United States Economic Intelligence on Japan—analysis and comparison; Appendix B: Gross national production Japan and its components; Appendix C: statistical sources).
- a. General data:
- (1) Preliminary draft of final report on over-all economic effect (consisting of three envelopes).
  - (2) Revised draft of final report on over-all economic effects.
- [USB-13 Roll No. 268]-----
- (3) Preliminary draft of Chairman's Report.
  - (4) Preliminary draft of Report on Chemicals in Japan's War.
  - (5) Preliminary report on the Japanese aircraft industry.
  - (6) Preliminary report on capital equipment and construction branch.
  - (7) Preliminary report on the Japanese construction industry.
  - (8) Preliminary report on electric power.
  - (9) Draft of report on fluctuation and forecast for the Material Mobilization Plan (photostat copy of report plus two typed copies).
  - (10) Report: The Place of Foreign Trade in the Japanese Economy (mimeograph copies one and two) (consisting of two envelopes).
- [USB-13 Roll Nos. 268-269]-----
- (11) Preliminary draft of Japanese Ground Army logistics report Chapters I through IV (consisting of two envelopes).
- [USB-13 Roll No. 269]-----
- (12) Preliminary report on Japan's iron and steel industry, 1937-45.
  - (13) Preliminary report on the Japanese machine-building industry.
  - (14) Preliminary draft of report on manpower, food and civilian supplies.
  - (15) Preliminary draft of interim report on manpower, food and civilian supplies.
  - (16) Preliminary report on military supplies branch,
  - (17) Preliminary draft of report: Oil in Japan's War.

----- [USB-13 Roll Nos. 269-270] -----

- (18) Preliminary draft of final report on Japanese transportation (consisting of two envelopes).

----- [USB-13 Roll No. 270] -----

- (19) Preliminary report on Japanese wartime standard of living (two copies).
- (20) Biographies of military personnel (Brief biographies of Japanese military personnel both active and retired).
- (21) Introduction to the Material Mobilization Plan—1944.
- (22) Explanatory data for the Material Mobilization Plan—1944:
  - (a) Comparison of important products.
  - (b) Comparison of important products distribution.
  - (c) Steel production.
  - (d) Fiber supply.
  - (e) Sugar.
- (23) The Material Mobilization Plan of 1944:
  - (a) Distribution of transportation agencies by districts (chart).
  - (b) Distribution of transportation by type of ship (chart).
  - (c) Chart showing routes over which materials were relayed.
  - (d) Diagram of intra-island distribution.
  - (e) Plane for mobilization of coal.
  - (f) Plans for mobilization of soda.
  - (g) Information on amounts of all materials supplied.
  - (h) Plan of distribution according to material.
- (24) Revised material mobilization plan for the fourth quarter, 1944:
  - (a) Maritime shipping allocation summary.
  - (b) Maritime shipping allocation of nonferrous metals.
  - (c) Allocation of maritime shipping, break-down by routes.
  - (d) Maritime shipping allocation of nonferrous metals, break-down by routes.
  - (e) South Korean Trunk Line.
  - (f) Allocation of shipping capacity, break-down by areas.
  - (g) Transit of essential materials between Aomori and Hakodate, Shimonoseki and Moji tunnel.
  - (h) Transportation of iron ore through special channels.
  - (i) Coal supply plan for Japan proper, break-down by area.
  - (j) Coal supply plan for Honshu, break-down by region.
  - (k) Allocation plan for coal, break-down by area and industry.

- (l) Supply plan for coke, break-down by area.
- (m) Coke allocation plan, break-down by area and industry.
- (25) The Material Mobilization Plan—1945.
- (26) Results of the Manchurian Five-year Plan.
- (27) Population.
  - (a) Census statistics gathered from various prefectures.

----- [USB-13 Roll No. 270A] -----

- (28) Production tables of essential commodities:
  - (a) Production tables of essential commodities—1945.
  - (b) Production tables of essential commodities—1944.
  - (c) Production tables of essential commodities—1943.
- (29) Essential supply commodities—table.
- (30) Civilian supply data:
  - (a) Point values of selected consumer goods and rations allowances of individuals.
  - (b) Evacuation of major cities in Japan.
  - (c) Notes, work sheets and miscellaneous data.
- (31) Photostat copies of tables pertaining to the cost of living in Japan.
- (32) Data pertaining to food supply and demand in Japan.
- (33) Economic Study of "Japan's National Income":
  - (a) Studenski's chapter on Japan.
  - (b) Data for investigating total income.
  - (c) Resources other than national.
  - (d) National income and outlay.
  - (e) Estimate of national income (part Japanese).
  - (f) Report by Ministry of Commerce and Industry.
  - (g) Survey of industrial production.
  - (h) Survey of general production.
  - (i) Survey of coal situation.
  - (j) Lumber industry.
  - (k) Clothing and textile distribution.
- (34) Miscellaneous information on Japanese commercial and national activities:
  - (a) Report on economic and scientific subjects.
  - (b) Structure for the distribution of ordinary steel materials before 1939.
  - (c) Report on the Hypothec Bank of Japan.
  - (d) The changes in the iron and steel production control structure in Japan.



- (e) Regulations reference division of munitions into sections.
- (f) Report on manpower mobilization plan—1939-1944.
- (g) Five-year plans of Manchuria.
- (h) Labor situation existing during Greater East Asia War.
- (35) Report on Japanese Ministry of Agriculture and Forestry.
- (36) Photostat copies of tables pertaining to the coal industry of Japan (consisting of two envelopes):
- (37) Lumber control:
  - (a) Interrogation of control of lumber in Japan and attack data.
- (38) Oil:
  - (a) Notes and work sheets pertaining to oil estimates.
  - (b) Japanese economic forces.
  - (c) Imports, production and inventory tables.
  - (d) Summary tables by Oil and Chemical Division.
- (39) Steel:
  - (a) Notes and work sheets pertaining to steel ingots.
- (40) Aircraft:
  - (a) Data pertaining to sorties flown attacking targets, and bomb tonnage expended on targets by Naval and Marine carrier and land-based aircraft—1944.
  - (b) Data pertaining to land-based fighters, land-based single-engine bombers and land-based multi-engine patrol bombers.
  - (c) Twentieth Air Force bombardment of Japan.
  - (d) U. S. Aircraft and personnel casualties in Air Forces opposing Japan.
  - (e) Personnel strength reports.
  - (f) United States air effort against Pacific and Asiatic target systems in World War II.
  - (g) Navy and Marine Corps aircraft action summary.
  - (h) Carrier-based aircraft action summary.
  - (i) The nature of the air operation against Japan.
  - (j) Miscellaneous notes and work sheets.
- (41) Transportation:
  - (a) Notes and work sheets pertaining to rail transportation.
  - \* (b) Comparison of traffic before and after the bombing of Kagoshima station (Japanese).
  - \* (c) Charts on state-owned freight vehicles (Japanese).

- \* (d) Report concerning construction of workshops (Japanese).
  - \* (e) Military communication regulation obtained from Nagasaki substation (Japanese).
- (42) Allocation of transport capacity (tables).
  - (43) Over-all shipping data:
    - (a) Japanese documents showing freight and ships handled in major harbors of Japan.
    - (b) List of "A" ships over 1,000 tons.
    - (c) Diagrams pertaining to ship model molding.
    - (d) Answers to shipping clerks' questionnaires (Japanese).
  - (44) Shipping:
    - (a) Statistical notes, notes and work sheets pertaining to steel ship construction.
    - (b) Chronological history, Japanese Merchant Marine.
    - (c) Miscellaneous notes and work sheets.
    - (d) Tonnage lost since outbreak of World War II.
- [USB-13 Roll No. 271] -----
- (45) Japanese Naval shipbuilding, September-November 1944, Military Supply Division:
    - (a) Preliminary draft.
    - (b) Statistics concerning ships requisitioned by Army and Navy.
  - (46) International cartel arrangements in Japan:
    - (a) General data pertaining to international cartel.
  - (47) Mine Warfare :
    - (a) Damage by allied planes—Records of mine laying and records of sweeping Yangtse River.
    - (b) A report on lessons learned and opinions in regard to American mine warfare conducted by airplanes.
    - (c) A report on the sea mine attack against Japan.
    - (d) Clipping from Life Magazine.
  - (48) Intelligence memoranda pertaining to Japanese aircraft production:
    - (a) Monthly production figures on aircraft, engines and propellers.
    - (b) Data on Japanese Naval aircraft production.
    - (c) Data on Japanese Army aircraft production.
  - (49) Intelligence memoranda pertaining to ship losses:
    - (a) Preliminary data on wartime losses incurred by Japanese steel merchant

- shipping and escort fleet.
  - (b) Traffic tables, seaborne freight by types.
  - (c) The principal problems and the obstacles which confronted the Japanese shipping during wartime.
  - (d) Report on broadcast by Raymond Graham Swing over ABC Network on 2 November 1945.
  - (e) Listing of Japanese vessels which were either sunk or damaged.
- (50) Intelligence memoranda—material relative to higher authorities in Japan:
- (a) Report on Japanese Naval intelligence.
  - (b) Report on Japanese Army intelligence.
  - (c) Information on Japanese estimates of the strength of the United States, British, U. S. S. R., German and Italian Naval Fleets and Air Forces.
  - (d) Report on organization of the Air Ordnance Bureau of the Japanese Ministry of Munitions.
  - (e) Report on research institutions in Japan.
  - (f) Report on organization on Japanese Army procurement agencies.
  - (g) Memorandum on subject of COA subcommittee's supplemental report on Japanese iron and steel industry.
- (51) Data on salt industry in Japan:
- (a) List of salt producers with extent of production.
  - (b) Statistics on salt production 1934-45.
  - (c) Past supplies and consumption of salt.
  - (d) List of plants producing liquid chlorine.
  - (e) Data on soda ash.
  - (f) Figures showing amount of coal used in manufacture of salt.
  - \*(g) Japanese documents pertaining to salt production, stockpiles, and damage done to fields due to typhoons.
  - (h) Interrogation pertaining to salt production, imports and consumption.
  - (i) Notes pertaining to report on salt industry.
- (52) Interrogations and working copies of interviews:
- (a) Interrogation No. 300, subject: Kagamigahara air depot.
  - (b) Interrogation No. 304, subject: Coal operations of Mitsui.
  - (c) Interrogation No. 330, subject: Japanese Naval Intelligence.
  - (d) Interrogation No. 337, subject: Osaka air depot.
  - (e) Interrogation No. 358, subject: Japanese Army Air Forces.
  - (f) Interrogation No. 368, subject: Testing of Army aircraft.

- (g) Interrogation USSBS No. 65, subject: Pearl Harbor, Midway, Solomons.
  - (h) Interrogation USSBS No. 295, subject: Midway, Eastern Solomons, Philippines.
  - (i) Interrogation USSBS No. 602, subject: Japanese Naval Air Force training.
  - (j) Interview pertaining to absenteeism.
  - (k) Interview with Messrs. Hattori and Sakura of Mitsubishi Economic Research Bureau on its activities.
  - (l) Interviews with various person industry of Commerce and Industry on production and distribution of necessities.
- (53) Questionnaire and procedure forms:
- (a) Tentative outline of work for shipping and rail transportation division.
  - (b) List of material registered on 15 and 16 November 1945.
  - (c) Interrogation schedules for 22 November through 26 November.
  - (d) G-2 Accession list No. 21.
  - (e) G-2 Accession list No. 30.
  - (f) Questionnaire for Army Air Forces officers.
  - (g) Questionnaire for Japanese shipping officers.
  - (h) Corporation questionnaires.
- (54) Work sheets and preliminary write-ups listed by subject, matter (consisting of four envelopes):
- (a) Condition of Japanese financial world.
  - (b) Japan's gross national product during the war.
  - (c) Technological developments.
  - (d) Summary of the principal economic control laws.
  - (e) Dependency of Japan on continental raw material.
  - (f) Monthly indices of Japanese naval ship production.
  - (g) Five-year plans of Manchuria.
  - (h) Tables on price fluctuations.
  - (i) Figures en deprivation of residential construction.
  - (j) Tables showing balance of international payments, Fiscal years 1939-44.
  - (k) Estimated increase of inventory.
  - (l) Figures on plant and equipment expenditures.
  - (m) Over-all consumer expenditures.
  - (n) Local government expenditures.
  - (o) National government nonwar expenditures.
  - (p) Tables showing comparison of government revenues with expenditures.

- (q) War expenditures.
- (r) Chapter I—The Road to Pearl Harbor.
- (s) Chapter III—Nature of Air Operations in the Japanese War.
- (t) Chapter IV—Effect of Allied Air Operations on the Japanese War Economy.
- (u) Chapter V—Appraisal of Target Selection in Air Operations.
- (v) Survey of national resources.
- (w) Tables showing over-all figures on exports and imports of leading articles.
- (x) Monthly market prices of foods in Tokyo.
- (y) Table showing number of sorties flown over Japan per month.
- (z) Paper showing codes used in mapping missions.
- (aa) Tables showing strength of Japanese Naval Air Force.
- (bb) Comparison of Japanese-American military strength in the postwar period.
- (cc) Information on over-all production capacity of Japan.
- (dd) Draft of report on Bureau of Census of Japanese government.
- (ee) Review of intelligence on tetraethyl production in Japan.
- (ff) Viewpoint of Prince Konoye as expressed to the Emperor of Japan early in February 1945.

----- [USB-13 Roll Nos. 271-272]-----

- (55) Notes and work sheets (consisting of seven envelopes).

----- [USB-13 Roll No. 272A] -----

- (56) Work copy of over-all economic effects report (consisting of three envelopes).

----- [USB-13 Roll Nos. 272A-272B] -----

- (57) Extra pages to preliminary draft of final report (consisting of six envelopes).

----- [USB-13 Roll No. 272B] -----

- (58) Complete set of appendix tables for over-all economic effects report.

- (59) Extra copy (mimeograph form) Chapter II-Oil in Japan's War.

----- [USB-13 Roll No. 273]-----

- (60) Deleted material pertaining to reports contained within over-all Economic Division (consisting of two envelopes):

- (a) Deleted civilian supply tables.
- (b) Deleted transportation tables.
- (c) Deleted electric power tables.
- (d) Deleted oil and chemicals tables.
- (e) Deleted aircraft tables.
- (f) Deleted food tables.

- (g) Deleted capital goods tables.
  - (h) Deleted military supplies tables.
  - (i) Deleted manpower tables.
  - (j) Deleted basic materials tables.
- (61) Miscellaneous tables prepared by the Japanese:
- \*(a) Year-end inventory 1941-45 (Japanese).
  - \*(b) Yearly plans 1942-43 in unit (Japanese).
  - \*(c) Monthly production 1941-45, in units and yen value by plant—ammunitions (Japanese).
  - \*(d) Monthly production 1941-45—radio communication equipment (Japanese).
  - \*(e) Monthly production 1941-45—optical arms (Japanese).
  - \*(f) Monthly production 1941-45—small arms (Japanese).
  - \*(g) Table pertaining to workers, shifts, hours and floor space (Japanese).
  - \*(h) Table pertaining to the effect of air attack in specific plants (Japanese).
  - \*(i) Table pertaining to workers, man-hours, wage bill, and number of plants by size (Japanese).
  - \*(j) Steel allocation tables (Japanese).
  - \*(k) Inventory of necessary hours for production of arms (Japanese).
  - \*(l) Dispersed planning of factory (Japanese).
  - \*(m) The main neck of production (Japanese).
- (62) Miscellaneous data:
- (a) Draft of summary report, iron and steel section.
  - (b) Draft of interim report, "The Effect of Bombing on Japanese Morale."
  - (c) Draft, "The Effects of the Atomic Bombings on Japanese Morale."
  - (d) Report on dependency of Japan on continental raw materials.
  - (e) Memorandum pertaining to type aircraft and tactics recommended for use against small islands.
  - (f) Report on destruction of Japanese forces.
  - (g) Report on the surrender of Japan.
  - (h) Report on the air effort against Japan.
  - (i) Report on Japanese and United States plans.
  - (j) Interim report, "Coal in Japan's War Economy."
  - (k) Report on the Japanese construction industry.
  - (l) Change of cabinets.
  - (m) Report on participation of submarine force.
  - (n) Reports of wartime production.

- (63) Detailed list of war materials in possession of private business concerns under Naval control.
- (64) Charts showing fluctuations and forecast for the material mobilization plan.
- (65) Summary reports:
  - (a) Summary report mission loss, United States attrition and enemy aircraft.
  - (b) Summary report by industry by month of the bombing attacks against enemy targets.
  - (c) Summary report by type aircraft by month of the bombing attack against enemy targets.
  - (d) Summary report of mission loss, United States aircraft attrition and enemy aircraft.
- (66) Miscellaneous tables and charts pertaining to production and supply.

----- [USB-13 Roll No. 273A] -----

- (67) Photographs of resource mobilization plans (graphic) (consisting of two envelopes).
- (68) Photographs of list of expansion plans and actual production tables.
- (69) Photographs of estimate production on essential products.
- (70) Photographs of report on actual production of essential products.
- (71) Photographs of summary of production of essential products in Japan.
- (72) Photographs of summary of actual production of essential products in Manchuria.
- (73) Industrial mobilization data (microfilm).
- (74) General production data (microfilm).

----- [USB-13 Roll No. 274] -----

- (75) Actual appropriations and quota statistics of essential products (microfilm) (consisting of two envelopes).
- (76) Production capacity of essential products for Japan, Manchuria and China (microfilm).
- (77) Statistics on actual production expansion capacity (microfilm).
- \*(78) International economic report—published by Mitsubishi economic research laboratory, April, July 1937 (Japanese).
- \*(79) International economic report—published by Mitsubishi economic research laboratory, January, February, March, April, May, August, September, October, November 1938 (Japanese).

----- [USB-13 Roll Nos. 274-274A] -----

- \*(80) International economic report—published by Mitsubishi economic research

laboratory, February, 1939; February, March, August, November, December 1940 (Japanese).

----- [USB-13 Roll No. 274A] -----

- \* (81) International economic report—published by Mitsubishi economic research laboratory, January, February, April, May, June 1941 (Japanese).
- \* (82) International economic report—published by Mitsubishi economic Research laboratory, July, August, September, October, November, December 1941 (Japanese).

----- [USB-13 Roll No. 275] -----

- \* (83) International economic report—published by the Mitsubishi economic research laboratory, February, April, June, July, August, October, November, December 1942 (Japanese).
- \* (84) International economic report—published by Mitsubishi economic research laboratory. February, March, April, May, June, August, October, November, December 1943 (Japanese).
- \* (85) International economic report—published by Mitsubishi economic research laboratory, January, February, March, April, May, June, July, September, October, December 1944 (Japanese).
- \* (86) International economic report—published by Mitsubishi economic research laboratory, January, February 1945 (Japanese).

----- [USB-13 Roll No. 275A] -----

- (87) Materials pertaining to the end of the Great East Asia War: [『大東亜戦争終戦に関する資料』]
  - (a) Reports made by various ministries.
  - (b) Resources of Southwest Pacific area and United States and Great Britain.
  - (c) Reparation capacity of Japan.
- (88) Reference book of 1945 budget. [『昭和十六年度予算参考書』]
- \* (89) Revolutionary movements in Japan—August 1938 (Japanese). [『日本革新運動秘録』]
- (90) National reconstruction: [『国家改造論策集』 警保局保安課]
  - \* (a) Collection of revolutionary theses (Japanese).
  - \* (b) Important factors for the establishment of a new economic organization (Japanese).

----- [USB-13 Roll No. 275B] -----

- \* (91) Economic publications by the research department under the Ministry of Foreign Affairs (Japanese).



\*(92) Monthly statistics on living cost of Japanese (Japanese).

----- [USB-13 Roll No. 276] -----

54. The War Against Japanese Transportation, 1941-45 (final report and original draft).

a. Shipping data by ports:

(1) Port of Fushiki:

\*(a) Daily record of entry and clearance of ships, port of Fushiki (Japanese).

\*(b) Fushiki Maritime Office Harbor officials' reply to questionnaire (Japanese).

\*(c) Monthly record of entry and clearance of ships, port of Fushiki (Japanese).

(2) Port of Hachinohe:

(a) Notes and work sheets.

(b) Interview of Hachinohe officials.

(3) Port of Hakata:

\*(a) Daily record of clearance (Japanese).

(4) Port of Hakodate:

\*(a) General report on facilities and condition resulting from bomb damage (Japanese).

\*(b) Report on foreign trade (Japanese).

(c) Monthly record of entries and clearances.

\*(d) Daily record of entries and clearances (Japanese).

(e) Answers to USSBS questionnaire.

(5) Port of Hokkaido:

\*(a) Record of entrances and sea-borne trade (Japanese).

\*(b) Record of shipments of coal during last four years (Japanese).

\*(c) Data on cargo tonnage of steamships from 1941-44.

\*(d) Records of monthly shipments for 1945 (Japanese).

(6) Port of Jinsen:

\*(a) Estimates of transport capacity and performance (Japanese).

\*(b) Statistics on foreign trade (Japanese).

(c) Interrogation of harbor master.

(7) Port of Kobe:

\*(a) Report by Kobe harbor master (Japanese).

\*(b) List of vessels entering Kobe Harbor (Japanese).

(c) Bomb plot.

(8) Korea (General):

(a) General report on shipping conditions.

- (b) Figures and information on exports to and imports from Japan (Japanese).
  - \* (c) Data concerning supply to headquarters of Japanese forces in Korea (Japanese).
  - (d) Interrogation of harbor master and other officials.
  - (e) Exports and imports of Korea to Japan proper.
  - \* (f) Table of loading statistics (part Japanese).
- (9) Port of Maizuru: .
- \* (a) Monthly summary of entry and clearance of ships through Maizuru port from 1936 to end of war (Japanese).
  - \* (b) Daily record of entry and clearance of ships through Maizuru from 1944 to end of war (Japanese).
  - \* (c) Export and import statistics from 1941 to end of war (Japanese).
  - \* (d) Reply to questionnaire for harbor officials (Japanese).
- (10) Port of Muroran:
- (a) Description of port.
  - (b) Answers to questionnaire for harbor officials.
  - (c) Record of Japanese ships sunk in Yangtze River.
  - \* (d) Record of imports and exports of various works using port of Muroran (Japanese).
  - \* (e) Record of cargo tonnage imported from or exported to Japanese ports from April 1943 to March 1944 (Japanese).
  - \* (f) Number and tonnage of ships entering Muroran harbor from August 1942 to October 1945 (Japanese).
  - \* (g) Record of exports and imports and their amount from 1941 to October 1945 (Japanese).
  - (h) Map (drawing) showing lay-out of railway line.
- (11) Port of Nagasaki:
- \* (a) Monthly record of entry and clearance (Japanese).
  - \* (b) Daily record of entry and clearance (Japanese).
  - (c) Interrogation of harbor masters.
  - (d) Bomb plot.
- (12) Port of Nagoya:
- \* (a) Customs records—annual figures of taxable imports and exports 1937-45 except 1944 (Japanese).
  - \* (b) Monthly record of entrances 1936-44 ( Japanese).
  - (c) Daily record of entry and clearance of ships.

(13) Port of Nanao:

- (a) Record of tonnages of various commodities moved.
- (b) Monthly record of entries and clearances.

----- [USB-13 Roll Nos. 276-276A] -----

- \* (c) Daily record of entries and clearances (part Japanese).

----- [USB-13 Roll No. 276A] -----

(14) Port of Niigata:

- (a) Answers to questionnaire for harbor officials.
- \* (b) Record of foreign trade from 1941-45 (part Japanese).
- \* (c) Daily record of entries and clearances (Japanese).

----- [USB-13 Roll No. 277] -----

(15) Port of Osaka:

- \* (a) Plan of water front (Japanese).
- (b) Interrogation of chief of harbor.

(16) Port of Otaru:

- (a) Description of port.
- (b) Report on bomb damage.
- \* (c) Annual statistics of steamships and cargo ships (Japanese).
- (d) Monthly statistics of steamships and cargo since August 1942.
- \* (e) Daily record of entries and clearances from 1936 to 1941 (Japanese).

(17) Port of Sakata:

- (a) Answers to questionnaire to harbor officials.
- (b) Monthly shipping data.
- (c) Daily record of entries and clearances.

(18) Port of Shimizu:

- (a) Statistics on cargo imports and exports.
- (b) Daily record of entries and clearances.

(19) Ports of Moji Shimonoseki and Kokura:

- (a) Monthly record of entry of ships from January 1942 to December 1942 (Japanese).
- \* (b) Daily record of entry of ships (Japanese).
- \* (c) Reply to questionnaire (Japanese).
- (d) Work sheets.
- \* (e) A list of loading and unloading at Kwammon Harbor (Japanese).
- \* (f) Outline of port Kwammon (Japanese)
- (g) Bomb plot.

- (20) Shimonoseki Straits:
  - (a) Vessels detained by mine laying.
  - (b) Report on ships passing through the straits.
  - (c) Mine Laying strikes.
  - (d) Port records of Moji and Shimonoseki.
- (21) Port of Tokyo:
  - \*(a) Data on exports and imports; entries and clearances (part Japanese).
  - \*(b) Daily record of entries and clearances (Japanese).
  - (c) Plans of harbor.
  - (d) Information on bomb damage and comparison of harbor before and after.
  - (e) Interrogation of harbor master and other officials.
- (22) Port of Tsuruga:
  - \*(a) Record of exports and imports from 1936-45.
  - (b) Daily record of entries and clearances.
  - (c) Interrogation of member of maritime office.
- (23) Port of Wakamatsu:
  - (a) Monthly record of the number and gross tonnage of entries from 1941-45.
  - (b) Daily record of entries and clearances.
  - (c) Report on shipping conditions during the war.
- (24) Port of Yawata:
  - (a) Report on shipping conditions.
  - (b) Monthly record of entries and clearances.
  - (c) Daily record of entries and clearances.
  - (d) Correspondence.
- (25) Port of Yokohama:
  - (a) Plot plan.
  - (b) Ships, cargoes, and tonnages.
  - (c) Trip times, and lay days.
  - (d) Daily record of entries and clearances.
  - (e) Condition of port resulting from bomb raids.
- b. Shipping losses (consisting of eleven envelopes):
  - (1) Locations of ships sunk by mines and submarines.
  - (2) Chronology of war in Pacific.
  - (3) Japanese war economy as affected by shipping losses in general.
  - \*(4) Map of South Pacific showing soundings in meters (Japanese with English translation).

- (5) Evaluation of anti-shipping attacks by United States Naval aircraft.
- (6) Conversion list of "C" ships.
- (7) List of "A" ships reported as sunk but whereabouts not definitely known.
- (8) List of "B" ships reported sunk but whereabouts not definitely known.
- (9) List "C"—ships reported as sunk but whereabouts not definitely known.
- (10) Combined lists of Japanese ships reported as sunk.
- (11) List of Japanese combatant ships lost.
- (12) Data on most of Japanese ships which were damaged.
- \* (13) General information and statistics on sinkings, probable sinkings and damages from all causes (partly Japanese).
- \* (14) Losses and damages incurred by all types of ships from mines (part Japanese).
- (15) Listings and data on submarine sinkings.
- (16) Mine warfare interrogations.
- (17) Results of sea-mining.
- (18) Mine countermeasures and shipping losses in Osaka.

----- [USB-13 Roll No. 277A] -----

- (19) Notes and work sheets pertaining to Japanese merchant ship losses.
- (20) List of surviving ships of Japanese Merchant Marine.
- (21) List of Japanese merchant ships lost subsequent to Pearl Harbor.
- (22) Losses incurred by Japanese steel merchant shipping.
- (23) Damage of ore transporting ships from Yangtze River.
- \* (24) Summary of ship losses (part Japanese).
- (25) List of salvageable sunken vessels in Japanese waters.
- (26) Work sheets on shipping losses.
- (27) Various interrogations connected with cargo traffic and ship losses.
- (28) Correspondence pertaining to shipping report.
- (29) List of sunken captured vessels.

----- [USB-13 Roll No. 278] -----

- (30) Listing of Japanese steel merchant ships over 500 tons sunk during the war.
- (31) Listing of Japanese steel merchant ships over 100 tons at the end of the war, 15 August 1945 (damaged survivors only).
- (32) Sure listing of Japanese merchant ship sinkings.
- (33) Listing of Japanese steel merchant ships over 500 tons sunk during the war.
- (34) Construction of Japanese merchant shipping in tonnage sequence.
- (35) Final IBM runs, shipping section.
- (36) List of merchant shipping over 100 tons reported sunk.

- (37) List of Japanese Navy merchant ships sunk or damages during the war.
- (38) Losses of Japanese civilian merchant ships under the control of the Shipping Control Association.

*c.* Traffic flow of port of Shiogama and Hachinohe:

- (1) Report on port of Shiogama.
- (2) Report on Hachinohe.
- (3) Shiogama officials interviewed.
- (4) Answers to questionnaires.

*d.* Tonnage of export and import at port of Aomori:

- (1) Tonnage of merchandise imported—1936-45.
- (2) Tonnage of merchandise exported—1936-45.

*e.* Report on Aomori port :

- (1) Description of port activities.
- (2) Location of six maritime bureaus.
- (3) Aomori officials interviewed.
- (4) Vessels entered from foreign countries.
- (5) Monthly record of entry and clearance of ships—1943-45.

----- [USB-13 Roll No. 278A] -----

*f.* Daily record of entry and clearance of ships at Yokohama—1 January 1944 to August 1945.

*g.* Daily record of entry and clearance of ships at Kobe—1 January 1944 to 21 May 1944 and 1 January 1945 to 10 August 1945.

\**h.* Monthly statistical report on Chinese trade—January-December 1944.

*i.* Japanese ship list and losses (consisting of six envelopes):

- (1) Merchant ship losses—8 December 1941 to 14 August 1945 (chronological run).
- (2) Ships sunk by aircraft—8 December 1941 to 10 August 1945 (chronological run).
- (3) Merchant ship losses (alphabetical run).
- (4) Ships available over 1,000 GRT.
- (5) Sinking list-over 500 GRT (chronological run).
- (6) Sinking list-over 500 GRT (alphabetic run).

----- [USB-13 Roll No. 279] -----

- (7) Ships sunk by Army and Naval aircraft.
- (8) Ships sunk (alphabetic run).
- (9) Tabulation of ships lost to United States Naval aircraft.
- (10) PIS Maru list-call sort—October 1945.

- (11) Sinking list-machine code.
- (12) Sinking list-machine code.
- j.* Japanese merchant convoy:
  - (1) History of the Japanese merchant convoy.
  - (2) Tankers whose construction date is known.
  - (3) Japanese Merchant Marine.
- k.* Railway data by regions:
  - (1) Private railways:
    - (a) Preliminary report on private railways ,and tramways and motor transportation in Japan.
    - (b) List of non government (suburban and street) railways.
    - (c) List of principal private railways in Kyushu District.
    - (d) Number of passengers and freight tonnage carried by principal private railroads.
    - (e) List of. machines damaged by air-raid at private railways and tramways.
    - (f) Work sheets.
    - (g) Map showing private lines, tramways, and government railways by districts.
    - (h) Report on the damaged conditions of private railways and tram lines.
  - (2) Hamamatsu region:
    - (a) Field Team reports.
    - (b) Bomb damage report.
  - (3) Hiroshima region:
    - (a) Field Team report.
    - (b) Map or Hiroshima damaged by atomic bomb.
    - (c) Plan of Hiroshima station yard.
    - (d) Bomb damage report.
    - \**(e)* A map of the lines under the jurisdiction of te HRDO.
  - (4) Inazawa region:
    - (a) Outline of Inazawa District.
    - (b) Diagram of marshalling yard.
    - (c) Bomb damage report.
  - (5) Kagoshima division:
    - (a) Sketch by Field Team.
    - \**(b)* Material on trains dispatched, passengers, and freight moved (part Japanese).

- \* (c) Record of damage due to air raids.
  - (d) Map showing location of air-raid shelters throughout the division.
  - \* (e) Statistics on cars, locomotives and equipment.
  - (f) Map showing lay-out of division.
- (6) Korea:
- (a) Report on restrictions, regulations and passenger handling.
  - (b) Inventory of rolling stock.
  - (c) Analysis of freight and passenger traffic.
  - (d) Prints negatives.
- (7) Moji region:
- (a) Sketch map of division.
  - (b) Brief report by Field Team.
  - (c) Map of division showing location of coal fields.
  - \* (d) Record of damage due to air raids (part Japanese).
  - \* (e) Important products moved (in tons along government railway).
  - \* (f) Plan of and statistics on Kammon Tunnel.
- (8) Nagoya region:
- (a) Field Team report.
  - (b) Condition of railway (damage caused by bombardment).
  - \* (c) Distribution of rail lines.
  - \* (d) Map of traffic system of Nagoya.
  - \* (e) Graph showing comparison loadings with base year.
  - \* (f) Railway plan.
  - (g) Diagram showing the manufacturing condition at the air raid.
  - \* (h) Number of train trips pertaining to each operating railway.
  - \* (i) Bomb plots.
  - (j) Bomb damage report.
  - (k) List of railway rolling stock builders.
  - \* (l) Locomotive runs and loads.
  - \* (m) Tonnage of "Kushu Coal" transported to Nagoya division.
  - \* (n) A Chart of rail lines under the jurisdiction of the Osaka Railway Bureau.
  - \* (o) System of telephone trunk lines.
- (9) North China railroad:
- (a) Tonnage of freight sent to Japan through North China Railway Company.
  - (b) Work sheets.
- (10) Osaka region:



- (a) Field Team reports.
- (b) Table showing number of passenger trains.
- (c) Actual cars of Kyushu coal from tunnel to Osaka division.
- (d) Tonnage of coal, steel, salt, soy, and timber dispatched.
- (e) Table—number of cars loaded on Osaka railroad division (daily average).
- (f) Graph—trend of passenger traffic increase.
- \*(g) Plan of Suita yard.
- \*(h) Report of damage by bombing (part Japanese).
- \*(i) Investigation of actual situation of Kawasaki Locomotive and Car Company, Ltd.
  - (j) District classification of number of trains.
- (k) Table showing number of trains, number of cars handled, humped, and dispatched.
  - (l) Record of war damage.
- \*(m) Plan of Suita yard.
- \*(n) Result of transport by freight car.
- \*(o) Miscellaneous papers.

*l.* Rolling stock:

- (1) Chart showing increase and decrease of rolling stock.
- (2) List of locomotives by each roundhouse.
- (3) List of steam locomotives at the end of each fiscal year by regions.

----- [USB-13 Roll No. 279A] -----

*m.* Over-all material:

- (1) Preliminary draft of final report on railroads.
- \*(2) Administration and organization (part Japanese).
- \*(3) Maps showing regional offices and regions of government railroads (part Japanese).
- (4) Statistics on personnel and finance.
- (5) Production figures.
- \*(6) Dispatching (part Japanese).
- \*(7) Commodity break-down (part Japanese).
- (8) Data pertaining to track.
- \*(9) Data and maps pertaining to yards (part Japanese).
- (10) Data pertaining to bridges.
- \*(11) Data pertaining to ferries (part Japanese).
- \*(12) Line profiles (Japanese).

- \* (13) Data on signal and communication system (part Japanese).
  - \* (14) Map of Imperial government railroad signal system (Japanese).
  - \* (15) Map showing location of railway workshops (Japanese).
  - \* (16) Maps showing Japanese government railway lay-out (Japanese).
  - \* (17) Listing of bomb damages on Japanese railroads (part Japanese).
  - \* (18) Map showing damage to communication and signal facilities (Japanese).
  - (19) Diagram showing losses on government railways due to air raids.
  - \* (20) Map showing damage to railway buildings (Japanese).
  - (21) Map showing damage to electrical power facilities (Japanese).
  - \* (22) Map showing location of electric car sheds (Japanese).
  - \* (23) Map showing location of car inspection offices (Japanese).
  - \* (24) Map showing the location of roundhouses (Japanese).
  - \* (25) Traffic analysis—freight (part Japanese).
  - \* (26) Traffic analysis—military (part Japanese).
  - (27) Traffic analysis—passenger.
  - (28) Allocation of equipment.
  - (29) Plates.
  - (30) Interrogations and answers to USSBS questionnaires.
  - (31) Correspondence and memoranda.
- n.* Railroad Personnel—General data.
- \**o.* Suita yards and Kammon Tunnel blueprints.
- \**p.* Railroad notes and work sheets for the Aomori and Hokodate division (part Japanese).
- q.* Railroad notes and work sheets for the Hiroshima, Nogata, and Niigata division (part Japanese). [直方]
- r.* Railroad notes and work sheets for the Manchurian and Korean districts.
- \**s.* History of Japanese railroad—published by the Ministry of Railroad—October 1942 (Japanese).
- [USB-13 Roll No.279B] -----
- t.* Air attacks on Kyushu rail transportation—Report by JTG.
- u.* Air-raid damages:
- \* (1) Air-raid damages compiled by Hiroshima railway division office.
  - \* (2) Air-raid damages compiled by Marunouchi fire department—November 1945.
  - \* (3) Air-raid damages reported by Kyobashi fire department—November 1945.
- v.* Freight transported by Asahigawa Electric Tramway Company, Ltd—1936-45:
- (1) Number of cars by year.

- \* (2) Volume of freight transported.
- (3) Volume of principal commodities transported.
- w. Railroad map of Formosa.
- x. Comparative figures on railway and freight:
  - \* (1) Statistics on number of freight cars owned by the Ministry—1945.
  - \* (2) Train movement—Moji division.
  - \* (3) Tonnage of light metal dispatched—Sapporo railway division.
- y. The Japanese government railways:
  - (1) Ten years of the Japanese government railways.
  - \* (2) Chart showing the Japanese government railways.
- z. Motor transportation:
  - (1) Documents about vehicles used to terminal distribution in Kyushu.
  - (2) General aspects and reconstruction plan of motor transportation in Japan.
  - (3) Notes, work sheets, and general data pertaining to motor transportation.
  - (4) Charts showing number of vehicles maintained.
  - (5) Vehicles used in terminal operation in Tokyo.
  - (6) Report on distribution of vehicle transportation labor.
  - (7) Operating manual for "Toyota" motor car—Army Air Inspecting General, March 1944.
  - (8) Operating manual for Type 97 motorcycle with sidecar Army Air Inspecting General, May 1945 (two copies).
- aa. Shipping data—general:
  - (1) Notes and work sheets.
- bb. Port Authority Bureau:
  - (1) Imports from South Asia to Japan (1940-41).
  - (2) Exports from Japan to South Asia (1940-41).
  - \* (3) Excess military equipment returned to Japan.
  - \* (4) Food import records.
  - \* (5) Soybean imports.
  - (6) Monthly exports and imports—1942-44.
  - (7) Imports by commodities.
  - (8) Interrogation of shipping officials.
  - (9) Imports of Manchurian cereals.
  - (10) Maintenance Bureau data.
  - \* (11) Rice imports.
- cc. Harbor facilities reports:

- (1) Manila.
- (2) Saigon.
- (3) Hong Kong.
- (4) Shanghai.
- (5) Report of war damages.
- (6) Dock damage.
- (7) Interrogation of Ministry of Transportation.
- (8) Air Inspection report.

*dd.* Operation statistics:

- (1) Ratio of round-trips of "B" ships.
- (2) Efficiency of marine transportation in wartime.
- (3) Conversion ratio of gross into dead weight tonnage.
- (4) Fluctuations in average of trips by "C" ships.
- (5) Bonus system for efficiency.
- (6) Changes in the fuel supply.
- (7) Fuel shortage.

*ee.* Japanese documents:

- \* (1) Minutes of the Senryoku Kaigi.
- \* (2) Summary of wartime shipping.
- \* (3) Tokyo harbor conditions.
- \* (4) Maizuru harbor damage.

----- [USB-13 Roll No. 280] -----

*ff.* Transportation of civilian materials:

- (1) Japanese survey of national resources.
- (2) Changes in the state of national resources.
- (3) Transportation of civilian goods.
- (4) Summary of Japanese shipping 1941-45.
- (5) Transportation of agricultural products.
- (6) Japanese criticism of their shipping.
- (7) Problems of Japanese wartime shipping.
- (8) General shipping summary.

*gg.* Manpower in shipping:

- (1) List of Chinese laborers in Japan.
- (2) Morale in Japanese harbors.
- (3) List of temporary laborers required in harbors.
- (4) Morale of longshoremen.

- (5) List of unloading equipment.
- (6) Table of men in shipping service.
- (7) Table of ships constructed.
- (8) Total number of merchant marine personnel.

*hh.* Imports and exports:

- (1) Exports and imports in "C" ships 1936-41.
- (2) Exports and imports in "C" ships 1945.
- (3) Monthly imports and exports—"C" ships, 1944-45.
- (4) Admiral Watanabe report.
- (5) Comparison by years of transport in "C" ships.
- (6) Total annual exports and imports, 1936-43.
- (7) Foreign trade of Japan with South Asia, 1942-44.
- (8) Foreign trade of Korea, 1942-44.
- (9) Exports and imports—Korea, 1940-41.
- (10) Report on transportation—Mr. Naganuma. [長沼弘毅 (専売局塩腦部長) ]
- (11) Civilian shipments.
- (12) Exports and imports of principal articles—1936.
- (13) Exports and imports of principal articles—1937.
- (14) Exports and imports of principal articles—1938.
- (15) Exports and imports of principal articles—1939.
- (16) Exports and imports of principal articles—1940.
- (17) Exports and imports of principal articles—1941.
- (18) Exports and imports of principal articles—1944.
- (19) Exports and imports of principal articles—1945.
- (20) Total annual exports and imports 1936-43.
- (21) Commodities shipped back from Southern Army military administrative region.
- (22) Summary of export-import statistics.

*ii.* Food transportation:

- (1) Rice importation problems.
- (2) Food imports.
- (3) Salt imports.
- (4) Water transport of agricultural products.
- (5) Fats and oils imports.

*jj.* Shipping administration regulations:

- (1) Outline for unifying transportation (translation of Red Book).

- \* (2) Japanese Red Book.
- \* (3) Table of organization—military transport agencies.
  - (4) Standard equipment—Navy ships.
  - (5) Standard personnel requirements.
  - (6) Complement of armed guard for various types of ships.
  - (7) Outline of shipping control system.
  - (8) Wartime shipping control—ordnance.
  - (9) Wartime shipping control—enforcement regulation.
- \* (10) Japanese booklet.

*kk.* Cargo and shipping control:

- (1) Cargo movements—"A" ships.
- (2) Cargo movements—"B" ships.
- (3) Losses of "A" ships.
- (4) Through transportation—Japan and south.
- (5) Allotment of ships to the Army.
- (6) Ship movements in the Singapore area.
- (7) Table of minimum necessary bottoms.
- (8) Control of overseas local shipping.

*ll.* Convoys:

- \* (1) Organization of the convoy system 1945.
- \* (2) Organization of the convoy system 1942.
  - (3) History of merchant convoys.
  - (4) Graph showing changes in escorts.
  - (5) Convoy movements report—Lieutenant Commander Sogawa.
  - (6) Ship sinkings and convoying.
  - (7) Approved shipping lanes.

*mm.* Wooden ship operations:

- (1) List of wooden ships at the beginning of the war.
- (2) List of wooden ships at the end of the war.
- (3) Number and tonnage of wooden ships sunk or damaged.
- (4) Construction of wooden ships.
- (5) Wooden shipbuilding yards.
- \* (6) Wooden ships controlled by the government.
  - (7) Vital commodities carried by wooden ships.
  - (8) The actual results of commerce by wooden ships.
  - (9) Wooden ships registered in Japan.

(10) Damages: to the merchant marine.

(11) Report on government shipping.

*nn.* Special ships and shipping:

(1) Transportation from Korea to Japan.

(2) Shipbuilding program.

(3) Specifications of wartime ships.

4) List of ships sunk, 1942-44.

(5) The Toa Shipping Company.

(6) Sailings of Chinese ships.

(7) Submarine transportation.

(8) Blockade runners.

----- [USB-13 Roll No. 280A] -----

*oo.* Data pertaining to Japanese shipping on the Yangtze River:

(1) Graphs and work sheets.

*pp.* Data concerning transportation of munitions:

(1) Table showing amount of munitions transported.

*qq.* "A" Ships—statistical breakdown.

(1) Names of ships used or shipped to Japan.

(2) Information concerning allotment of Army levied Ships.

(3) Reply to questionnaire asked Japanese shipping officials.

*rr.* "B" ships—statistical breakdown:

(1) Distribution of tankers requisitioned by the Navy.

(2) Classified chart of ships requisitioned by the Navy.

(3) Breakdown of "B" fleet.

*ss.* Ship tonnages—"A", "B" and "C":

(1) List showing the numbers and tonnage of tankers possessed by the Army, Navy and Senpaku Unyei Kai at the time of surrender.

(2) Fluctuation in available ABC ship tonnage.

\* (3) Table of present status of natural shipping 1 June 1945.

(4) Transfers of ship tonnage from "C" to "A" and "B" in 1941.

(5) Numbers of ships possessed at the beginning of October 1945.

(6) List showing Japanese tonnage from month to month.

(7) Distribution of Japanese tankers by gross tonnage.

(8) Statistics concerning ships requisitioned by Army and Navy,

*tt.* Data pertaining to "C" ships.

(1) Comparative table on transportation plan and actual transportation results of

"C" ships.

- (2) Aerial photos of Shimonoseki port.
  - (3) Chart showing length of time vessels were under construction.
  - (4) Construction of new ships..
  - (5) Merchant ships construction.
  - \* (6) Wartime railroad history.
  - (7) Interrogation of Takamine (Ministry of Commerce).
  - (8) "C" ship operations.
  - (9) Average cargo handled "C" ships.
  - (10) Postwar shipping plans.
  - (11) USSBS Oil Division shipping report.
  - (12) Japanese estimate of our Army and Navy.
  - (13) Japanese report on China.
  - (14) Interrogations of ships officers.
- uu.* Comparison by years of steamship transport in "C" ships:
- (1) Tables showing total tonnage transported.
- vv.* Construction and repair of ships:
- (1) Report on ships under repair.
  - (2) Shipbuilding data (Summary of data from MIS reports).
  - (3) Japanese Naval operations in Singapore.
  - (4) List of ships constructed on Kyushu during war.
  - (5) List of vessels constructed since 1 December 1941.
  - (6) Building program of new tonnage.
  - (7) Number and types of merchant vessels over 100 tons.
  - (8) List showing sailing vessels as registered at end of December 1944.
  - (9) List showing repairs to ships operated by Ship Control Association.
  - (10) Total tonnages of "A" and "B" ships.
  - (11) Notes and work sheets pertaining to Japanese merchant shipping.
  - (12) Table of Army and Navy chartered ships.
  - (13) Names of vessels.
  - (14) Ship repair figures—yen value.
  - (15) List of ships in repair.
  - (16) Ship repair list.
  - (17) Repair record—Yokohama.
  - (18) List of repair jobs performed on steel ships over 100 tons.
  - (19) List of ships repaired during the war.



- (20) Interrogation of superintendent of Mitsubishi shipyard.
- ww.* Foreign vessels chartered, captured and detained by the Japanese government:
- (1) List of vessels.
  - (2) Summary of captured vessel list.
  - (3) List of salvaged ships.
  - (4) Particulars of captured or chartered vessels under Japanese control.
  - (5) List of captures distributed by type.
  - (6) Reply to questionnaire.
- xx.* Moji call sign list:
- (1) Listing of call signs.
- yy.* Current position of merchant shipping-August 1945:
- (1) Microfilm list.
- [USB-13 Roll No. 280B] -----
- zz.* AAF statistical data.
- aaa.* Ship list:
- (1) Listing of "A" ships..
  - (2) Monthly situation during war of "B" ships over 100 tons.
  - (3) List of names of conscripted shipping.
- bbb.* Interrogations:
- (1) No. 31—shop officials of the Imperial government railroad and locomotive shops—Omiya.
  - (2) No. 51—subject: General shipping and ocean traffic questions.
  - (3) No. 52—subject: General information on operation of Navy cargo ships ("B" ships).
  - (4) No. 64—subject: Japanese foreign trade statistics.
  - (5) No. 80—subject: Manchurian railway system.
  - (6) No. 81—subject: North China Railway Company, Ltd.
  - (7) No. 166—subject: Operation and allotment of "A" class ships.
  - (8) No. 401—subject: Convoy difficulties, interrogations of transportation bureaus, minutes of meetings between USSBS officials and officials of the following Japanese transportation bureaus.
    - (9) Ministry of Army.
    - (10) Military Affairs.
    - (11) Maritime Affairs.
    - (12) Shipping Control Association.
    - (13) Transport Ministry.

- (14) Cabinet Control Bureau.
- (15) Munitions Minister.
- (16) Captain Ryozaaburo Agawa.
- (17) Captain Denichi Ishito.
- (18) Captain Gisuke Ohara.
- (19) Captain Kogoro Shiroko.
- (20) Hitoshi Kobatake.
- (21) Captain Nagao Ejima.
- (22) Captain Sukasaburo Tonami.
- (23) Captain Toshio Saito.
- (24) Captain Hideichi Kayahara.
- (25) Captain Chuji Kawamura.
- (26) Chief Officer Senji Yonemitsu.
- (27) Toshio Tanabe.
- (28) Captain Juji Kagami.
- (29) Hisanobu Kasawa.
- (30) Captain Kazuo Murashima.
- (31) Captain Isao Kanno.
- (32) Commander Kalahara[sic].

*ccc.* Transport facilities and capacities from December 1941 to March 1942:

- (1) Charts showing transport facilities and capacities.

*ddd.* Number and dead weight of steamships entering 22 Japanese ports during 1 March 1945 to 15 August 1945.

*eee.* Japanese reply to questionnaires for harbor officials.

*fff.* Final report—manuscript master copy.

*ggg.* Notes and work sheets (two envelopes):

- (1) Notes and work sheets pertaining to Japanese merchant fleet as of Pearl Harbor.
- (2) Final consolidated work sheets.

----- [USB-13 Roll No. 281] -----

- (3) Charts, keys and codes.
- (4) Notes, general.

*hhh.* Summary of relative effectiveness of various attacking agents.

*iii.* Organization chart showing the structure of Japanese wartime transportation controls.

*jjj.* Records obtained from Osaka harbor master.

*kkk.* Tables and charts reflecting various phases of Japanese wartime economy.

*lll.* Detailed ship allocation plans:

- (1) February 1943.
- (2) March 1943.
- (3) January-June, November-December 1944.
- (4) March 1945.
- (5) April 1945.

*mmm.* Ship construction figures published by the Ministry of Transportation.

----- [USB-13 Roll No. 281A] -----

*nnn.* List of Japanese ships:

- (1) List of Japanese ships with descriptions—Marine Transportation Bureau, Ministry of Transportation and Communication, 1942. [『日本船名録』]
- (2) List of Japanese ships with descriptions—Marine Transportation Bureau, Ministry of Transportation and Communication, 1943.
- (3) List of Japanese ships with descriptions—Marine Transportation Bureau, Ministry of Transportation and Communication, 1943.

----- [USB-13 Roll No. 281B] -----

- (4) List of all the Japanese ships with full descriptions—Marine Affairs Bureau, 1942. [『日本汽船名簿』]

----- [USB-13 Roll No. 282] -----

*ooo.* Japanese interrogated by Shipping and Railway Division.

*ppp.* Number and dead weight of ships that entered 22 ports in Japan proper—1 March 1945 to 14 August 1945.

*qqq.* Import and export data on selected harbors:

- (1) Reports on imports into selected harbors—September and October.
- (2) Average monthly cargo dealing with eleven ports—August 1942 to July 1945.
- (3) Average tonnage of cargo dealing with thirteen main ports in Japan—August 1942 to July 1945.

*rrr.* Shipping plan for war materials—April to September 1943.

*sss.* Data on Japanese ports:

- (1) The port of Shimizu.
- (2) Port of Aomori.
- (3) Port of Hakodate.
- (4) Port of Kamaishi.
- (5) Port of Kamaishi (duplicate).

*ttt.* Background material for attack data on Japanese transportation facilities:

- (1) Special breakdown of communications and Naval installations.
- (2) Record of United States submarine-laid mine-fields.
- (3) Record of United States surface-laid minefields.
- (4) Aircraft minelaying records:
  - (a) China theater.
  - (b) India-Burma theater.
  - (c) Japanese Empire waters.
  - (d) Central Pacific area.
  - (e) Southwest Pacific theater.
- (5) Thirteenth and Fourteenth Air Force operations:
  - (a) Thirteenth Air Force operations in the war against Japan.
  - (b) Data on wartime losses incurred by Japanese Naval war vessels and vessels of escort fleet.
  - (c) Map of air bases of Thirteenth Air Force and of enemy.
  - (d) Type Fourteenth Air Force combat aircraft.
- (6) Naval carrier raids:
  - (a) Number of naval and marine carrier- and land-based sorties attacking all Pacific targets.
  - (b) Summary of carrier attacks in the Pacific.
- (7) Naval and Marine air effort and losses in Pacific:
  - (a) Key to special tab L. O. 600.
  - (b) Tab L. O. 600: attack data and tonnage of bomb dropped.
  - (c) Naval and Marine air effort and losses in the Pacific—1941-45.
  - (d) Monthly Naval and Marine Corps attacks on harbor areas, transportation and shipping targets—Pacific, 1941-43.
  - (e) Monthly Naval and Marine offensive air effort against all Japanese shipping targets—by area.
- (8) Sorties and tonnage by Air Force—1941-45.
  - (a) Fifth Air Force.
  - (b) Seventh Air Force.
  - (c) Eleventh Air Force.
  - (d) Thirteenth Air Force.
  - (e) Fourteenth Air Force.
  - (f) Twentieth Air Force.
  - (g) Fifth, Seventh, Eleventh, Thirteenth, Fourteenth, Excluding Twentieth Air Force.

- (9) Special airfield map—The Far East.
- (10) Land-based and carrier-based planes (By area)—1941-45:
  - (a) Aleutians.
  - (b) Bonins.
  - (c) Eastern Carolines.
  - (d) Western Carolines.
  - (e) Celebes-Borneo.
  - (f) Central China.
  - (g) South China.
  - (h) Formosa.
  - (i) Gilbert—Marshalls—Nauru.
  - (j) Kodaïdo—Hondshu.
  - (k) Southeast and Northeast Indies.
  - (l) Indo-China.
  - (m) Central Japan.
  - (n) Eastern Japan.
  - (o) Western Japan.
  - (p) Java—Sumatra.
  - (q) Korea and North China.
  - (r) Kuriles.
  - (s) Marianas.
  - (t) Midway—Wake.
  - (u) New Guinea—Halmahera.
  - (v) Philippines.
  - (w) Ryukus.
  - (x) Solomon—Bismarck.
- (11) Submarine offensive efforts—1941-45:
  - (a) Number of submarines in the Pacific—December 1941 to August 1945.
  - (b) Attacks on merchant shipping—January 1943 to August 1945.
  - (c) Charts of attacking and sinking data—December 1941 to December 1945.
  - (d) Squadrons in action.

----- [USB-13 Roll No. 282A] -----

*uuu.* Maps of aerial operations:

- (1) Aircraft operations (consisting of three bundles).
- (2) Aerial mining operations.
- (3) Locations of ship sinkings (consisting of two bundles).

----- [USB-13 Roll No. 282B] -----

(4) Miscellaneous maps and charts.

*vvv.* Japanese scrap book.

*www.* Department of machinery and shipbuilding plan, showing arrangement.

*xxx.* Reference material.

*yyy.* Japanese map showing harbor facilities of Ujina Harbor.

55. Effects of Air Attack on Japanese Urban Economy (summary report) (Final report and original draft).

*a.* General data:

----- [USB-13 Roll Nos. 282B-283] -----

(1) Draft copies of preliminary summary reports (consisting of two envelopes).

----- [USB-13 Roll No. 283] -----

(2) Economic effects of successful area attacks on six Japanese cities.

(3) Japanese war economy:

(a) Special report by Professor C. Maiide of Tokyo Imperial University.

(b) Indexes to economic activity in Japan.

(4) Population statistics:

\* (a) List of number of personnel conscripted by the Army.

\* (b) Population by industrial category and age.

(c) Area and population by Ken, Shi, and Gum, 1930-40.

(d) Population of cities on 1 February 1944.

(5) Yen sales—all Japan (summarized):

(a) Yen sales—miscellaneous industry.

(b) Yen sales—metals.

(c) Yen sales—machined parts.

(d) Yen sales—finished machinery.

(e) Yen sales—electrical equipment.

(f) Yen sales—ordnance.

(g) Yen sales—aircraft.

\* (h) Deposits and savings.

(6) Statistics on consumption for all Japan:

(a) Coke (part Japanese).

(b) Coal.

(c) Electric power (photostat copies).

(7) Industrial sampling and the industrial questionnaire.

(8) Urban area attack data (consisting of two envelopes).

- (9) Bomb data:
  - (a) Pre-raid and post-raid data.
  - (b) Urban area targets.
  - (c) Airfields.
  - (d) Petroleum and other industrial targets.
  - (e) Aircraft industry.
  - (f) Air-raid damage by cities.
  - (g) Navy strikes on Japan.
  - (h) Damage to targets.
  - (i) Bomb tonnage.
  - (j) Air-raid damage to major cities in Japan.
  - (k) Impact of raids on industry.
  - (l) Evaluation of damage to gas companies.
  - (m) Work sheets on pre-raid data.
- (10) Target data:
  - (a) Combat operation statistics.
  - (b) Figures on personnel on aviation duty.
  - (c) Statistics on monthly Naval and Marine air effect against Japan.
  - (d) Tabular report on target bombing against Japan military.
  - (e) Tabular report on target bombing against Japan industrial.
  - (f) Tabular report on target bombing against Japan transportation.
  - (g) Tabular report on target bombing against Japan miscellaneous.
- (11) Coding:
  - (a) United States Army Air Force code book.
  - (b) Map of Pacific showing boundaries of areas with code numbers.
  - (c) Layout code forms.
  - (d) Manual of interpretations.

----- [USB-13 Roll No. 283A] -----

- (12) Maps and photographs.

----- [USB-13 Roll Nos. 283A-284] -----

- (13) Miscellaneous data and work papers (consisting five envelopes).

----- [USB-13 Roll No. 284] -----

- (14) Special Field Team report on Fukuoka (unpublished) (five copies) (consisting of two envelopes).
- (15) Special Field Team report on Moji (unpublished) (six copies).
- (16) Exhibits for Moji report.

- (17) Special Field Team report on Nagasaki (unpublished) (three copies).
- (18) Special Field Team report on Iita (unpublished) (six copies) (consisting of two envelopes).
- (19) Exhibits for Oita report.
- (20) Work sheets on statistical summaries for Gifu:
  - (a) Aircraft.
  - (b) Ordnance.
  - (c) Machines and fabricated metal plants.
  - (d) Finished machinery.
  - (e) Metals.
  - (f) Miscellaneous.
- (21) Work sheets on statistical summaries for Hamamatsu:
  - (a) Ordnance.
  - (b) Electrical equipment.
  - (c) Machined and fabricated metal parts.
  - (d) Finished machinery.
  - (e) Miscellaneous.
- (22) Work sheets on statistical summaries for Himeji :
  - (a) Aircraft.
  - (b) Ordnance.
  - (c) Electrical equipment.
  - (d) Finished machines.
  - (e) Metals.
  - (f) Chemicals.
  - (g) Miscellaneous.
- (23) Work sheets on statistical summaries for Ichinomiya:
  - (a) Aircraft.
  - (b) Ordnance.
  - (c) Metals.
  - (d) Miscellaneous.
- (24) Work sheets on statistical summaries for Kuwana:
  - (a) Motor vehicles.
  - (b) Ordnance.
  - (c) Electrical equipment.
  - (d) Machined and fabricated metal parts.
  - (e) Finished machinery.



- (f) Metals.
  - (g) Miscellaneous.
- (25) Work sheets on statistical summaries for Ogaki:
- (a) Aircraft.
  - (b) Electrical equipment.
  - (c) Finished. machinery.
  - (d) Metals.
  - (e) Chemicals.
  - (f) Shipbuilding and repair.
  - (g) Miscellaneous.
- (26) Work sheets on statistical summaries for Okazaki:
- (a) Aircraft.
  - (b) Ordnance.
  - (c) Machines and fabricated metal parts.
  - (d) Metals.
  - (e) Miscellaneous.
- (27) Work sheets on statistical summaries for Shmizu:
- (a) Finished machinery.
  - (b) Shipbuilding and repair.
  - (c) Miscellaneous.
- (28) Work sheets on statistical summaries for Shizuoka:
- (a) Machined and fabricated metal parts.
  - (b) Finished machinery.
  - (c) Miscellaneous.
- (29) Work sheets on statistical summaries for Nagoya region with Nagoya:
- (a) Motor vehicles.
  - (b) Aircraft.
  - (c) Ordnance.
  - (d) Electrical equipment.
  - (e) Machines and fabricated metal parts.
  - (f) Finished machinery.
  - (g) Metals.
  - (h) Chemicals.
  - (i) Shipbuilding and repair.
  - (j) Miscellaneous.
- (30) Work sheets on statistical summaries for Nagoya region without Nagoya:

- (a) Machined and fabricated parts.
- (b) Finished machinery.
- (c) Electrical equipment.
- (d) Aircraft.
- (e) Metals.
- (f) Chemicals.
- (g) Ordnance.
- (h) Miscellaneous.

(31) Work sheets on statistical summaries for Wakayama:

- (a) Electrical equipment.
- (b) Machined and fabricated parts.
- (c) Chemicals.
- (d) Miscellaneous.

b. Plant reports covering manufacturing by prefecture:

(1) Fukui prefecture:

- (a) Textiles.
- (b) Aircraft parts.
- (c) Machine tools and electrical equipment.
- (d) Lumber and paper.
- (e) Explosives.
- (f) Drugs and chemicals.

----- [USB-13 Roll No. 284A] -----

(2) Hyogo:

- (a) Machinery, tools and parts (consisting of two envelopes).
- (b) Aircraft Parts (one envelope).

----- [USB-13 Roll No. 285] -----

- (c) Textiles (one envelopes).
- (d) Drugs and chemicals (one envelope).
- (e) Other products (Consisting of three envelopes):
  1. Shipbuilding.
  2. Beverage alcohols.

----- [USB-13 Roll No. 285A] -----

- 3. Rubber goods.
- 4. Leather goods.
- 5. Lumber and paper products.
- 6. Insulating materials.

7. Linoleum.
  8. Porcelain ware.
  9. Fire brick.
  10. Gas and coal tar.
  11. Issue of Mainichi newspaper for 15 November 1945.
  12. Forging and casting.
  13. Non-ferrous metal materials.
  14. Electrical equipment.
  15. Food products.
  16. Wire and nails.
  17. Arms and ammunition.
- (3) Kyoto Prefecture (consisting of four envelopes).
- (a) Aircraft parts.
  - (b) Textile products.

----- [USB-13 Roll No. 285B] -----

- (c) Electrical equipment.
- (d) Beverage alcohols.
- (e) Machine tools and carbon steel products.
- (f) Drugs and chemicals.
- (g) Non-ferrous materials.
- (h) Porcelain and abrasives.
- (i) Munitions equipment.
- (j) Food stuffs.
- (k) Civilian commodities.
- (l) Fuel gas.
- (m) Lumber products.

----- [USB-13 Roll No. 285C] -----

- (4) Okayama Prefecture (one envelope):
- (a) Textile products.
  - (b) Machinery and machine parts.
  - (c) Drugs and chemicals.
  - (d) Food stuffs.
  - (e) Fire brick.
  - (f) Lumber and paper products.
  - (g) Non-ferrous metal materials.
  - (h) Aircraft parts.

- (i) Fertilizer.
- (j) Natural gas.
- (5) Osaka Prefecture.

----- [USB-13 Roll Nos. 285A-286] -----

- (a) Smelting and forging (consisting of three envelopes).

----- [USB-13 Roll No. 286] -----

- (b) Engineering equipment.
- (c) Shipbuilding (consisting of two envelopes).

----- [USB-13 Roll No. 286A] -----

- (d) Pipe, pipe fittings and boiler parts.
- (e) Plastics, stones and glass (consisting of two envelopes).
- (f) Drugs and chemicals (consisting of two envelopes).
- (g) Non-ferrous metals (consisting of two envelopes).

----- [USB-13 Roll No. 287] -----

- (h) Locomotives and railway equipment.
- (i) Machine presses.
- (j) Machine tools (consisting of two envelopes).

----- [USB-13 Roll No. 287A] -----

- (k) Munitions.
- (l) Aircraft parts (consisting of two envelopes).
- (m) Automobiles and parts (consisting of two envelopes).

----- [USB-13 Roll No. 287B] -----

- (n) Electrical equipment (consisting of two envelopes).
- (o) Pumps and compressors.
- (p) Printing and weaving machinery.
- (q) Chemical producing machinery.

----- [USB-13 Roll No. 288] -----

- (r) Chain and wire products.
- (s) Textiles.
- (t) Rubber goods.
- (u) Paper products.
- (v) Leather goods.
- (w) Rope.
- (x) Building materials.
- (y) Fuels.
- (z) Paints and alcohols.

----- [USB-13 Roll No. 288A] -----

- (aa) Foodstuffs.
- (bb) Civilian and agricultural supplies
- (6) Wakayama Prefecture:
  - (a) Dyeing and printing of textile products.
  - (b) Insecticides and chemicals.
  - (c) Lumber products.
  - (d) Shipbuilding.
  - (e) Explosives.
  - (f) Food stuffs.
  - (g) Leather goods.
- (7) Yamaguchi Prefecture:
  - (a) Natural gas and coal tar.

----- [USB-13 Roll No. 289] -----

*c.* Statistical summary reports:

- (1) Yen sales, labor hour, labor force, and KWH consumption by industry (red folders):
  - (a) Akashi, Amagasaki, Chiba, Fukuoka, copy 1, 2, 3.
  - (b) Gifu, Hachioji, Hamamatsu, Himeji, Hiratsuka, Ichinomiya, Kawasaki, copy 1, 2, 3.
  - (c) All Hokkaido, copy 1, 2, 3.
  - (d) Kobe, Kumamoto, Kure, Kuwana, copy 1, 2, 3.
  - (e) Kyoto, Moji, copy 1, 2, 3.

----- [USB-13 Roll No. 289A] -----

- (f) Nagoya, copy No. 1, 2, 3.
- (g) Ogaki, Oita, Okayama, Okazaki, Omiya, Omuta, copy 1, 2, 3.

----- [USB-13 Roll Nos. 289A-289B] -----

- (h) Osaka, copy 1, 1a, 2, 2a, 3, 3a.

----- [USB-13 Roll No. 289B] -----

- (i) Sakai, Shimizu, Shimonoseki, Shizuoka, copy 1, 2, 3.
- (j) Tokyo, copy 1, 2, 3.

----- [USB-13 Roll Nos. 289B-289C] -----

- (k) Tsurugi, Wakayama, Yokohama, Kudamatsu, Osaka (small).

----- [USB-13 Roll No. 290] -----

- (2) Roster of plants (red folders):
  - (a) Alphabetically by plant, copy 1, 2, 3, 4.

- (b) By labor force, copy 1, 2, 3, 4.
  - (c) By industry, copy 1, 2, 3, 4.
  - (d) Alphabetically by industry, copy 1, 2, 3, 4.
  - (e) By industry for 150 employees and over, copy 1, 2, 3.
- (3) Roster of plants by industry:
- (a) For all Japan (by labor force).
  - (b) Kure, Shimonoseki, Okayama, copy 1, 2, 3, 4, 5.
  - (c) Hokkaido, copy No. 1, 2, 3, 4, 5.
  - (d) Fukuoka, Moji, Oita, Omuta, Kumamoto, copy 1, 2, 3, 4, 5.
  - (e) Kobe, Kyoto, Nagoya, copy 1, 2, 3, 4, 5.
  - (f) Gifu, Hamamatsui, Ichinomiya, Kuwana, Ogaki, Nagoya, Okazaki, Shizuoka (Book II), copy 1, 2, 3, 4, 5.
  - (g) Akashi, Amagasaki, Himeji, Kobe, Kudamatsu, Kyoto, Sakai, Tsuruga, Wakayama, copy 1, 2, 3, 4, 5.
  - (h) Chiba, Hachioji, Kawasaki, Omiya, Tokyo, Yokohama, copy 1, 2, 3, 4, 5.
  - (i) Osaka, copy 1, 3, 4, 5.
  - (j) Osaka (small), copy 1, 2, 3, 4, 5.
  - (k) Japan (except Nagasaki and Hiroshima), copy 1, 2, 3, 4, 5.
- (4) Fuel and coal consumption by ordnance and metals industries (brown folders):
- (a) Osaka, Tokyo, Nagoya.
- [USB-13 Roll No. 292]-----
- (5) Physical damage (brown folders):
- (a) Kobe by industry, copy 1, 3, 4, 5.
  - (b) Kobe by Ku by raid month, copy 2, 3, 4, 5.
  - (c) Osaka by Ku by raid month, copy 2, 3, 4, 5.
- [USB-13 Roll Nos. 292-293]-----
- (d) Osaka by industry by raid month, copy 2, 3, 4, 5.
- [USB-13 Roll No. 293]-----
- (e) Nagoya by production.
  - (f) Nagoya and Nagoya region, copy 1, 2, 3, 4, 5.
- (6) Reasons for Production Variations by industry (brown folders):
- (a) Fukuoka, Omuta, Kumamoto, Moji, Oita, copy 1, 2, 3, 4, 5.
  - (b) Nagoya, Ichinomiya, Gifu, Ogaki, Okazaki, Kuwana, Shimizu, Hamamatsu, Shizuoka, Okayama, copy 1, 2, 3, 5.
  - (c) Osaka, Kobe, Amagasaki, Akashi, Himeji, Sakai, Wakayama, Kyoto, Tsuruga, Gifu, copy 1, 2, 3, 5.

(d) Osaka (small), Kure, Shimonoseki, copy 1, 2, 3, 5.

----- [USB-13 Roll Nos. 293-293A] -----

(e) Tokyo, Yokohama, Kawasaki, Omiya, Hachioji, Chiba, Hiratsuka, copy 1, 2, 3, 4, 5.

----- [USB-13 Roll No. 294] -----

(7) Repair histories (brown folders).

(a) Japanese cities by industry.

(b) Fukuoka by industry (Book V), copy 2, 3, 4, 5.

(c) Kobe by industry (Book II), copy 1, 2, 3, 4, 5.

(d) Kobe by industry (Book III-B), copy 2, 3, 4, 5.

(e) Kure by industry, copy 2, 3, 4, 5.

(f) Nagoya (Book II) by Industry, copy 2, 3, 4, 5.

(g) Osaka (Book III) by Industry, copy 2, 3, 4, 5.

(h) Osaka (Book II) copy 1, 2, 3, 4, 5.

(i) Tokyo, copy 1, 3, 4, 5.

(8) Yen sales, labor hours, labor force and KWH consumption by industry (brown folders):

(a) All Japan (including Hokkaido), copy 2, 4, 5, 5a.

(b) Akashi.

(c) Amagasaki.

(d) Chiba.

(e) Fukuoka, Kumamoto, Moji, Nagasaki, Oita. Omuta, copy 1, 2, 3, 4, 5.

(g) Fukuoka, Moji, Oita. Omuta, Kumamoto, copy 1, 2, 3, 4, 5.

(h) Gifu.

(i) Hachioji.

(j) Hamamatsu.

(k) Himeji.

(l) Hiratsuka.

(m) Hokkaido, copy 1, 2, 3, 4, 5.

(n) Ichinomiya.

----- [USB-13 Roll No. 294A] -----

(o) Kawasaki.

(p) Kobe.

(q) Kobe (by Ku), copy 1, 2, 3, 4, 5.

(r) Kobe, Amagasaki, Akashi, Himeji. Sakai, Wakayama, Kyoto, Tsuruga, Kudamatsu, copy 2, 3, 4.

- (s) Kudamatsu.
- (t) Kure, Shimonoseki, Okayama, copy 1, 2, 3, 4, 5.
- (u) Kuwana.

----- [USB-13 Roll No. 295] -----

- (v) Kyoto.
- (w) Ogaki.
- (x) Ogaki, Okazaki, Kuwana, Ichinomiya, Gifu, copy 1, 2.
- (y) Okayama.
- (z) Okazaki.
- (aa) Omiya.
- (bb) Sakai.
- (cc) Nagoya region with Nagoya, copy 1, 2, 4, 5.
- (dd) Nagoya region without Nagoya, copy 3, 4, 5.
- (ee) Nagoya by Ku, copy 1, 2, 4, 5.
- (ff) Nagoya.

----- [USB-13 Roll No. 295A] -----

- (gg) Nagoya by plants with 500 workers.
- (hh) Nagoya. Ichinomiya. Gifu, Ogaki, Ogazaki, Kuwana, Shimizu, Hamamatsu, Shizuoka, copy 1, 2, 3, 4, 5.
- (ii) Osaka (part I).
- (jj) Osaka (part II).

----- [USB-13 Roll No. 296] -----

- (kk) Osaka by Ku, copy 1, 2, 3, 4, 5.
- (ll) Osaka, copy 2, 5.
- (mm) Osaka (small), copy 1, 2, 3, 4, 5.
- (nn) Osaka region without Osaka, copy 1, 2, 3, 4, 5.
- (oo) Osaka region without Kobe, copy 1, 2.
- (pp) Osaka region without Osaka and Kobe, copy 1, 2, 3, 4, 5.
- (qq) Osaka, Amagasaki, Sakai, copy 1, 2, 3, 4, 5.
- (rr) Osaka. Akashi, Amagasaki, Kyoto, Kobe, Osaka, Sakai, Wakayama, Himeji, copy 1, 2, 3, 4, 5.
- (ss) Osaka, Kobe. Amagasaki, Akashi, Himeji, Sakai, Wakayama, Kyoto, Tsuruga, Gifu.
- (tt) Sakai.
- (uu) Shimizu.
- (vv) Shimonoseki.



----- [USB-13 Roll No. 296A] -----

- (ww) Shizuoka.
- (xx) Tokyo.
- (yy) Tokyo, Chiba, Hachioji, Hiratsuka. Omiya, Yokohama, copy 1, 3, 4, 5.
- (zz) Tokyo, Yokohama, Kawasaki, copy 1, 2, 4, 5.
- (aaa) Tsuruga.
- (bbb) Wakayama.
- (ccc) Yokohama.

----- [USB-13 Roll No. 297] -----

- (9) Other special reports (brown folders):
  - (a) Japanese naval shipbuilding.
  - (b) Japanese naval ship construction—quarterly shipyard study.
  - (c) Japanese naval ship construction by fiscal year by class in commercial yards.
  - (d) Japanese Merchant ship construction—quarterly shipyard study.
  - (e) Alphabetical listing of Japanese merchant ships, 1931-45, with totals on number of ships and tonnage.
  - (f) Japanese merchant shipping in tonnage sequence.
  - (g) Sure listing of Japanese merchant ship sinkings.
  - (h) Doubtful listing of Japanese merchant ship sinkings.
  - (i) Listing of summary cards by factory by industry by date for Nagasaki.
  - (j) Unlabeled summary tabulation.

----- [USB-13 Roll No. 297A] -----

56. Effects of Air Attack on Urban Complex Tokyo-Kawasaki-Yokohama (final report and original draft).

- a. Effects of air-attacks on Tokyo region collectively:
  - (1) Population statistics for Tokyo region:
    - \*(a) Figures on employment and variations in population (part Japanese).
    - \*(b) Loss due to 1923 earthquake (part Japanese).
    - (c) Regulations for insurance laws.
  - (2) Defense plans:
    - \*(a) Anti-air defense plans—Kawasaki 1943.
    - \*(b) Defense corps plans—Kawasaki 1944.
    - \*(c) Anti-air defense plans and measures.
  - (3) Food production and consumption:
    - \*(a) Milk (part Japanese).

- \* (b) Fresh meat (part Japanese).
  - (c) Fish.
  - (d) Poultry.
  - (e) Vegetables and fruits.
  - (f) Vegetable oils.
  - (g) Flour.
  - \* (h) Soybean products (part Japanese).
- (4) Data pertaining to consumption in Tokyo region:
- (a) Fuel.
  - (b) Electricity in Southern Japan.
  - (c) Electricity in Northern Japan.
  - (d) Gas.
  - (e) Coal.
  - (f) Coke.
  - (g) Charcoal.

----- [USB-13 Roll No. 298] -----

- (5) Shipping data:
- (a) Report on Japanese shipping.
  - (b) Report on shipping by Prime Minister.
  - \* (c) Figure on freight transported (part Japanese).
  - (d) Graphs showing freight movements.
  - (e) Notes and work sheets.
- (6) Truck and rail transportation:
- \* (a) Statistics on volumes of freight handled (part Japanese).
  - (b) Graphs showing variation in freight hauling.
  - (c) Notes and work sheets.
- (7) Statistics on trade:
- (a) Wholesale trade.
  - (b) Retail trade.
- (8) Data pertaining to labor in Tokyo region:
- \* (a) General information on labor (part Japanese).
  - (b) Labor data in Tokyo City.
  - (c) Labor data on Yokohama City.
  - (d) Labor data on Kawasaki City.
  - (e) Labor data on Kofu City.
  - (f) Labor data on Nagaoka City.

- (9) Labor statistics:
  - (a) Employment.
  - (b) Industrial labor.
  - (c) Industrial labor hours.
- (10) Production data by commodity:
  - \* (a) Electric power (part Japanese).
  - (b) Coal.
  - (c) Gas.
  - (d) Coke.
  - (e) Shipbuilding.
  - \* (f) Chemicals (part Japanese).
  - \* (g) Munitions (part Japanese).
- (11) Production data by city:
  - \* (a) Kawasaki (part Japanese).
  - \* (b) Kofu (part Japanese).
  - \* (c) Nagaoka (part Japanese).
  - \* (d) Tokyo (part Japanese).
  - \* (e) Yokohama (part Japanese).
- (12) Production data (general):
  - (a) Graphs.
  - (b) Tables showing combined productions.
- (13) Work sheets on production variation changes:
  - (a) Tokyo.
  - (b) Kawasaki.
  - (c) Yokohama.
  - (d) Reasons for production variation.
- (14) Air-raid data and bomb damage (consisting of three envelopes):
  - (a) Monthly pre-raid average.
  - (b) Chart of bomb tonnage dropped on Tokyo.
  - (c) Bomb tonnage used in major area raids.
  - (d) Effects of strategic bombing on gas works.
  - (e) Statistics on bomb damage to buildings.
  - (f) Bomb damage to buildings.
  - (g) Bomb damage to industrial plants, 1944.
  - (h) Effects of area attacks on the urban Complex Tokyo—Kawasaki and Yokohama.

- (i) Statistics on air-raid effectiveness, 29 November 1944 to 25 May 1945.
- (j) Description of urban area and air-attack data.

----- [USB-13 Roll No. 298A] -----

- \* (k) Details of disasters of the Greater East Asia War (part Japanese).
  - (l) Worksheets.
- (15) Target Information (consisting of two envelopes):
  - (a) Target information sheets.
  - (b) Mission summaries.
  - (c) Damage assessment reports.
  - (d) Maps.
  - (e) Aerial photographs.
- (16) Casualties.
  - (a) Statistics on number of casualties.
  - \* (b) Tables showing comparisons of casualties for various localities (part Japanese).
- (17) Damage, repair and construction of buildings in Tokyo region:
  - (a) Number of buildings.
  - \* (b) Number and cost of repairs (part Japanese).
  - \* (c) Number and cost of new construction (part Japanese).
  - (d) Bomb damage to buildings.
  - \* (e) Figures on use of building materials (part Japanese).
- (18) Factory questionnaires for Tokyo Area (consisting of two envelopes):
  - (a) Electric companies.
  - \* (b) Heavy industrial companies (part Japanese).
  - \* (c) Machine industry (part Japanese).
  - \* (d) Chemical industry (part Japanese).
  - (e) Engineering companies.
  - (f) Optical industry.
  - \* (g) Steel works (part Japanese).
- (19) Plant reports (consisting of five envelopes):
  - \* (a) Aeronautical industries.
  - \* (b) Electrical industries.
  - \* (c) Fuel industries.
  - \* (d) Food manufacturing and processing.
  - \* (e) Glass industry.
  - \* (f) Leather goods.

- \* (g) Metal industry.
- \* (h) Machine industry.

----- [USB-13 Roll No. 298B] -----

- \* (i) Munitions industries.
- \* (j) Optical companies.
- \* (k) Paper industries.
- \* (l) Paint companies.
- \* (m) Pen and pencil.
- \* (n) Pharmaceutical companies.
- \* (o) Rubber industry.
- (p) Photography industry.
- (q) Precision instrument industry.
- \* (r) Science industries.
- \* (s) Textile industries.
- \* (t) Tobacco factory.
- \* (u) Miscellaneous.
- (v) Outline of Setagaya factory.
- (w) Mitsubishi Steel Manufacturing Company.
- (x) Mitsubishi Electric Manufacturing Company.
- (y) Omiya plant.
- (z) List of plants in Kawasaki and Yokohama.
- \* (aa) Statistic list of industries in Tokyo (part Japanese).
- \* (bb) Break-down of industrial categories by plants (part Japanese).
- (cc) Price list of manufactured products.

----- [USB-13 Roll No. 299] -----

- (20) Work sheets on statistical summaries for Tokyo region (consisting of three envelopes).
- (21) Mosaic of Tokyo City (consisting of two envelopes).
- (22) Maps of Tokyo City:
  - (a) City plans.
  - (b) Tokyo Bay.
  - (c) Damages inflicted by air raids.
  - (d) Industrial plants.
  - (e) Road maps.
- (23) Maps of Tokyo Bay region:
  - (a) Ichikawa City.

- \* (b) Kawasaki City (part Japanese).
- (c) Kisarazu.
- (d) Noda.
- (e) Omiya.
- (f) Yokohama.
- (g) Mito.

----- [USB-13 Roll No. 299A] -----

*b.* Effects of air attacks on Tokyo region by cities:

- \* (1) Asahikawa (part Japanese).
- (2) Hachioji:
  - (a) Population.
  - (b) Employment.
  - (c) Air-raid casualties.
  - (d) Industrial labor.
  - (e) Electric power consumption.
  - (f) Gas consumption.
  - (g) Coal consumption.
  - (h) Coke consumption.
  - (i) Charcoal consumption.
- \* (3) Kawasaki (part Japanese).
- \* (4) Kushiro (part Japanese).
- \* (5) Muroran (part Japanese).
- \* (6) Nemuro (part Japanese).
- \* (7) Obihiro (part Japanese).
- (8) Omiya:
  - (a) Number of buildings.
  - (b) Number and cost of buildings.
  - (c) Number and post of new construction.
  - (d) Bomb damage to buildings.
  - (e) Population.
  - (f) Air-raid casualties.
  - (g) Industrial labor.
  - (h) Industrial labor hours.
  - (i) Electric power consumption.
  - (j) Gas consumption.
  - (k) Coal consumption.

- (l) Coke consumption.
  - (m) Charcoal consumption.
  - (n) Freight transportation.
  - (o) Wholesale trade.
  - (p) Retail trade.
  - (q) Factories in Omiya City.
  - (r) Employment.
  - \*(9) Otaru (part Japanese).
  - \*(10) Sapporo (part Japanese).
57. Effects of Air Attack on the City of Nagoya (final report and original draft).
- a. Data pertaining to Nagoya region including Nagoya:
- (1) Data on population, health and education:
    - (a) General report in regard to politics and the people.
    - (b) Special interviews.
    - \*(c) Answers to questionnaires concerning population (part Japanese).
    - (d) Statistics on evacuation.
    - (e) Figures showing variations in population.
    - (f) Table of air-raid casualties.
    - (g) General report on medical conditions.
    - \*(h) Statistics extracted from medical records.
    - \*(i) General report on education (part Japanese).
  - (2) Production and consumption of fuels, electricity and building materials:
    - \*(a) Special interviews (part Japanese).
    - (b) Corresponding figures of consumption of electricity, gas, coal, coke, and charcoal.
    - \*(c) General report and figures on production of coal (part Japanese).
    - (d) Figures on coal consumption.
    - (e) Figures on gas consumption.
    - \*(f) Figures on distribution and consumption of electricity (part Japanese).
    - (g) Diagram on load state of 60-cycle system.
    - \*(h) Data on damage sustained by electrical industry (part Japanese).
    - \*(i) Maps showing layout of transmission lines (part Japanese).
    - \*(j) General information and figures on cost of new Construction (part Japanese).
  - (3) Labor:
    - (a) Interview on labor in Nagoya.

- \* (b) Report on excess and deficiency of labor (part Japanese).
- \* (c) Statistical summary of labor conditions in Nagoya.
- (d) Figures in labor for 1941.
- (4) Data on railroads (consisting of 2 envelopes):
  - (a) Questions concerning facilities.
  - \* (b) Figures on equipment (part Japanese).
  - \* (c) Statistics on employment (part Japanese).
  - (d) Data on repair and construction of equipment.
  - (e) Air-raid damage (part Japanese).
  - \* (f) Train schedules.

----- [USB-13 Roll No. 299B] -----

- \* (g) Map showing railroad system.
- \* (h) Diagrams of rail yards.
- (5) Streetcars and busses:
  - (a) List of questions asked of officials.
  - \* (b) Tables showing damage to various types of equipment (part Japanese).
  - \* (c) Map showing lay-out of routes.

----- [USB-13 Roll No. 300] -----

- (6) Data on factories (consisting of 4 envelopes):
  - (a) Report on interdependence of industries In Nagoya.
  - (b) Interviews.
  - \* (c) Tables of mobilization of enterprises (part Japanese).
  - \* (d) List of factories (part Japanese).
  - (e) Report of inspection of various plants.
  - (f) Report on Mitsubishi aircraft plant.
  - (g) Report on Mitsubishi engine plant.
  - (h) Report on Mitsubishi engine plant No. 16.
  - (i) Report on Eitoku plant.
  - (j) Report on Atsuta engine plant.
  - \* (k) Figures oh amount of raw material and fuel consumed and wages paid for labor (part Japanese).
  - (l) General report on industrial production.
  - \* (m) Figures on industrial production (part Japanese).
  - (n) Data on damage sustained.
  - (o) Information on dispersal of plants.
  - \* (p) Outline of Army control over plants (part Japanese).



- (q) Notes and work sheets.
  - (r) Tables showing relative importance of factories in Nagoya region.
  - (s) Statistics on production changes.
  - (t) Worksheets on production, labor hours, and electric power consumed in various factories.
  - \* (u) Questionnaires as submitted by various factories in Nagoya region (part Japanese).
- (7) Reports on component parts of feed network for factories (consisting of 2 envelopes):
- \* (a) Reports on feeder system for Nagoya arsenal (part Japanese).
  - \* (b) Report on feeder system for Japan Rolling-stock Company, Ltd. (part Japanese).
  - \* (c) Report on feeder system of Fusoh Metal Industries Company, Ltd. (part Japanese).
  - \* (d) Reports on feeder system for steel manufacturing companies.
  - (e) Reports on feeder ' system for insulator manufacturing concerns.
  - (f) Report on feeder system for Aichi Chemical Industrial Company, Ltd.
  - \* (g) Reports on feeder system for Aichi Aircraft Company (part Japanese).
- (8) Trade statistics: .
- (a) Statistics on retail trade.
  - (b) Statistics on wholesale trade.
- (9) Freight transportation:
- (a) Special interview.
  - \* (b) General report on transportation of freight (part Japanese).
  - (c) Statistics on amounts of various commodities.
- (10) Bomb data (consisting of 2 envelopes):
- (a) Table of Twentieth Air Force bombardment of Japan.
  - (b) Tables showing dates of attacks with tonnages dropped.
  - (c) Description of air attacks on Nagoya.
  - (d) Aerial photos of damaged areas.
  - (e) Figures showing comparison of tonnages dropped with number of casualties and damage caused.
  - (f) Statistics on building damage.
  - (g) Tables showing damage to factories.
  - (h) Target lists and weights of bombs dropped.
  - (i) Operations of Twentieth Air Force.

- (j) Operations of XX Bomber Command.
- (k) Dates of raids.
- (l) Statistics on damage sustained by various factories.
- (m) Figures on damage to buildings.
- (n) Extra pages of report on effects of air attacks on the city of Nagoya.

----- [USB-13 Roll No. 300A] -----

- (11) Draft of preliminary report on effects of air attacks on Nagoya (consisting of 2 envelopes).
- (12) Effects of air attacks on the city of Nagoya (consisting of 2 envelopes):
  - (a) Notes, works sheets and draft copies.
- (13) Target information:
  - (a) Attack data.
  - (b) Target information sheets.
- (14) Stencils for final draft of report on Nagoya.
- (15) Special interviews.
- (16) Field team operations:
  - (a) Memoranda.
  - (b) Progress reports.
  - (c) Outlines of work and questionnaire forms.
- (17) Graphs:
  - (a) Consumption of electric power.
  - (b) Production and consumption of coke.
  - (c) Supply of charcoal.
  - (d) Production and consumption of gas.
  - (e) Production, consumption and transportation of coal.
  - (f) Construction and supply of industrial equipment.
  - (g) Variations in population and employment.
- (18) Maps (consisting of 3 envelopes):
  - (a) Maps of Nagoya proper.
  - (b) Outlying districts and cities.

----- [USB-13 Roll No. 301] -----

- (c) Outlying districts and cities.
- (19) Aerial photographs (consisting of three envelopes):
  - (a) Photos of Nagoya area.
  - (b) Photos of Toriimatsu area.
  - (c) Photos of Shimizu area.

- (d) Photos of Tsu area.
  - (e) Photos of Suzuka area.
  - (f) Photos of Ichinomiya area.
  - (g) Photos of Gifu area.
  - (h) Photos of Kuwana area.
- b. Data pertaining to individual cities within Nagoya region:
- (1) Gifu:
    - (a) History of city.
    - \* (b) Map.
    - (c) Statistics on consumption of coal.
    - (d) Statistics on consumption of charcoal.
    - \* (e) Statistics on consumption of gas (part Japanese).
    - (f) Statistics on the generation and consumption of electric power.
    - \* (g) Statistics on number and cost of new construction (part Japanese).
    - (h) Statistics on wholesale and retail trade.
    - (i) Statistics on transportation of freight.
    - \* (j) Plan of Kurashiki Nogyo Company's mills.
    - (k) Operations of Twentieth Air Force.
  - (2) Hamamatsu:
    - \* (a) History of city (part Japanese)
    - (b) Maps of city.
    - (c) Population statistics.
    - \* (d) Statistics on air-raid casualties (part Japanese).
    - \* (e) Statistics on consumption of fuels (part Japanese).
    - \* (f) Statistics on bomb damage to buildings (part Japanese).
    - (g) Statistics on industrial production.
    - (h) Statistics on number and cost of new construction.
    - (i) Statistics on labor and employment.
    - (j) Statistics on trade.
    - (k) Statistics on freight transportation.
  - (3) Ichinomiya:
    - \* (a) Report on city (part Japanese).
    - \* (b) Map.
    - \* (c) Figures on consumption of fuels (part Japanese).
    - \* (d) Figures on trade (part Japanese).
    - \* (e) Statistics on freight transportation (part Japanese).

- (f) Statistical report on independent trucking association.
  - (g) Tables showing number and cost of building construction.
- (4) Kuwana:
- \*(a) History of city (part Japanese).
  - \*(b) Map.
  - \*(c) Statistics on consumption of fuels (part Japanese).
  - \*(d) Statistics on repair and construction of buildings (part Japanese).
  - \*(e) Statistics on number of buildings (part Japanese).
  - (f) Statistics on population.
  - (g) Statistics on air-raid casualties.
  - (h) Statistics on bomb damage to buildings.
  - (i) Statistics on freight transportation.
  - \*(j) Statistics on trade (part Japanese).
- (5) Ogaki:
- \*(a) History of city (part Japanese)
  - \*(b) Map of city area.
  - \*(c) Chart showing organization of air-defense system.
  - \*(d) Map of damaged areas.
  - \*(e) Statistics on employment.
  - (f) Statistics on consumption of fuels.
  - (g) Statistics on number and cost of buildings.
  - (h) Statistics on industrial labor.
  - \*(i) Statistics on freight transportation (part Japanese).
  - (j) Statistics on industrial production.
  - (k) Statistics on trade.
  - (l) Data on production and dispersal of air-craft plants.
- (6) Okazaki:
- \*(a) History of city (part Japanese)
  - (b) Statistics on employment.
  - \*(c) Statistics on consumption of fuels (part Japanese).
  - (d) Statistics on number and repair of buildings.
  - \*(e) Statistics on freight transportation (part Japanese).
  - (f) Statistics on trade.
- (7) Shimizu:
- (a) Statistics on population.
  - (b) Statistics on air-raid casualties.

- (c) Statistics on labor and employment.
  - \*(d) Statistics on consumption of fuel and electric power (part Japanese).
  - \*(e) Statistics on industrial production (part Japanese).
  - (f) Statistics on construction, repair and number of buildings.
  - \*(g) Statistics on bomb damage to buildings (part Japanese).
  - \*(h) Statistics on freight transportation (part Japanese).
  - (i) Statistics on trade.
  - \*(j) Bomb plot of Shimizu proper.
  - \*(k) Plant report on Japan Light Metal Company, Ltd., covering: Production, employment, raw materials, stocks, machinery and equipment, capacity, processes (part Japanese).
  - \*(l) Plant report on Toa Oil Company, Ltd., covering: Employment, production, raw materials (part Japanese).
  - (m) Plant report on Shimizu Works of Hitachi Ltd., covering: Production, fuel and power, stocks and employment (part Japanese).
- (8) Shizuoka:
- \*(a) History of city as an industrial center (part Japanese).
  - \*(b) Maps showing bomb damaged areas.
  - (c) Statistics on population.
  - (d) Statistics on air-raid casualties.
  - (e) Statistics on labor and employment.
  - \*(f) Statistics on fuel and electric power used (part Japanese).
  - (g) Statistics on industrial production.
  - (h) Statistics on bomb damage to buildings.
  - (i) Statistics on construction, repair, and number of buildings.
  - (j) Statistics on freight transportation.
  - (k) Statistics on trade.
- (9) Tsuruga:
- (a) General report.
  - \*(b) Outline history of the city.
  - \*(c) Construction and buildings.
  - \*(d) Air-raid damages and casualties.
  - \*(e) Population.
  - \*(f) Employment, industrial labor, industrial labor hours.
  - \*(g) Industrial production.
  - (h) Production, labor force, labor house, electric power consumption.

- \* (i) Fuel consumption (part Japanese).
- \* (j) Freight transportation (part Japanese).
- \* (k) Wholesale and retail trades (part Japanese).
- (l) Map of city.

58. Effects of Air Attack on Osaka-Kobe-Kyoto (final report and original draft).

a. Data pertaining to Osaka-Kobe-Kyoto area collectively:

- (1) Draft of report and employment within area.

----- [USB-13 Roll No. 301A] -----

- (2) Factories and reconstruction.
  - (a) List of factories with chief produce.
  - (b) Brief statement on repair and reconstruction in region.
  - (c) Tables showing calculations from statistical summaries.
- (3) Work sheets on physical damage (consisting of 2 envelopes).
- (4) Maps of Osaka-Kobe Area:
  - (a) Ashiya.
  - (b) Kinki District.
  - (c) Kobe-Osaka area.
  - (d) Fukui Prefecture.
  - (e) Hyogo Prefecture.
  - (f) Nishinomiya City.
  - (g) Wakayama Prefecture.

b. Data pertaining to individual cities:

- (1) Akashi:
  - (a) General report.
  - \* (b) Populations.
  - \* (c) Construction and buildings.
  - \* (d) Air-raid damages and casualties.
  - \* (e) Employment, industrial labor and industrial labor hours (part Japanese).
  - \* (f) Industrial production.
  - (g) Production, labor hours, labor force, electric power consumption.
  - (h) Fuel consumption.
  - \* (i) Wholesale and retail trades.
  - (j) Freight transportation.
  - (k) Maps of the city.
  - (l) Table of factory questionnaire.
- (2) Amagasaki (consisting of 2 envelopes):

- (a) General report.
  - \* (b) Population.
  - \* (c) Construction and buildings.
  - \* (d) Air-raid damages and casualties (part Japanese).
  - \* (e) Employment, industrial labor, industrial labor hours (part Japanese).
  - (f) Industrial production.
  - (g) Tables showing calculations form statistical summaries.
  - (h) Roster of plant with data pertaining to each.
  - (i) Fuel consumption.
  - \* (j) Wholesale and retail trades.
  - \* (k) Freight transportation.
  - (l) Maps of the city.
- (3) Fukuoka (consisting of 3 envelopes):
- (a) Report on city.
  - (b) Interviews.
  - (c) Population.
  - (d) Air-raid casualties.
  - (e) Employment and industrial production.
  - (f) Factory questionnaire.
  - (g) Consumption of electricity and fuels.
  - (h) Construction and repair of buildings.
  - (i) Statistics on transportation and trade.
  - \* (j) Maps (part Japanese).
  - (k) Aerial photographs.
  - (l) Work sheets.

----- [USB-13 Roll No. 302] -----

- (4) Himeji:
- (a) General report.
  - \* (b) Population.
  - \* (c) Construction and building.
  - \* (d) Air-raid damages and casualties.
  - \* (e) Employment, industrial, labor, industrial labor hours.
  - \* (f) Industrial production.
  - (g) Fuel consumption.
  - \* (h) Wholesale and retail trades.
  - \* (i) Freight transportation.

- (j) Roster of factories with data pertaining to each.
  - (k) Maps of city.
- (5) Kobe (consisting of 5 envelopes):
- (a) Draft of preliminary report.
  - \* (b) Air-raid damage (part Japanese).
  - (c) The population of Kobe City.
  - (d) Evaluation.
  - (e) Development of air-defense works,
  - (f) Police department.
  - \* (g) Communication (part Japanese).
  - \* (h) Figures on banking (part Japanese).
  - \* (i) Air-raid casualties (part Japanese).
  - \* (j) Repair and construction of buildings (part Japanese).
  - \* (k) Consumption of fuels and electricity (part Japanese).
  - \* (l) Figures on transportation (part Japanese).
  - (m) Outline of industry in Kobe.
  - (n) Fuels and raw materials.
  - \* (o) Labor statistics (part Japanese).
  - \* (p) List of factories (part Japanese).
  - \* (q) Figures on industrial production (part Japanese).
  - \* (r) Factory questionnaires (part Japanese).
  - \* (s) Statistics on volume of freight handled (part Japanese).
  - \* (t) Figures on sea freight transportation (part Japanese).
  - \* (u) Tables on wholesale and retail trade (part Japanese).
  - \* (v) Maps (part Japanese).
- (6) Kumamoto:
- (a) Provisional report on the City.
  - (b) Interrogations.
  - (c) Attack Data.
  - \* (d) Air-raid casualties and bomb damage.
  - (e) Employment.
  - (f) Construction and Repair of buildings.
  - \* (g) Factory report (part Japanese).
  - (h) Production, labor hours, labor force and electric power consumption.
  - (i) Wholesale and retail trade.
  - (j) Coal, coke, gas, charcoal and electric power consumption.



- (k) Maps of Kumamoto Prefecture.
- (7) Kure:
  - (a) Interrogation.
  - (b) Summary and general conclusions on Kure urban attack.
  - (c) Population.
  - (d) Construction and buildings.
  - (e) Air-raid damages and casualties.
  - (f) Employment, industrial labor, industrial labor hours.
  - (g) Factory report.
  - (h) Production, labor hours, labor force, electric power consumption.
  - (i) Fuel and electric power consumption.
  - (j) Wholesale and retail trades.
  - (k) Freight transportation.
  - (l) Aerial photo of city.
- (8) Kyoto (consisting of 6 envelopes):
  - (a) Draft copy of report on city.
  - (b) List of directors of departments and chiefs of sections of Kyoto prefectural Government office.
  - (c) Population census.
  - \* (d) Evacuation of students (part Japanese).
  - \* (e) Various causes for death (part Japanese).
  - (f) Air-defense policy.
  - (g) Outline of fire service during wartime.
  - (h) List of criminal offenses committed.

----- [USB-13 Roll Nos. 302-302A] -----

  - \* (i) Consumption of electricity and fuel (part Japanese).

----- [USB-13 Roll No. 302A] -----

  - \* (j) Construction and repair of buildings (part Japanese).
  - \* (k) Freight transportation (part Japanese).
  - \* (l) Production data (part Japanese).
  - \* (m) Air-raid damage (part Japanese).
  - \* (n) Factory reports (part Japanese).
  - \* (o) Conversion of schools to factories.
  - \* (p) Questions and answers pertaining to industry (part Japanese).
  - \* (q) Production, labor force, and electric power consumption (part Japanese).
  - (r) Control sheets for factory questionnaires.

- (s) Tabulations for factory questionnaires.
  - \* (t) Employment (part Japanese).
  - \* (u) Labor force (part Japanese).
  - \* (v) Industrial labor (part Japanese).
  - (w) Industrial labor hours (part Japanese).
  - \* (x) Guide to city.
  - \* (y) Map of targets.
  - \* (z) Map of city (part Japanese).
  - \* (aa) Map of transportation system (part Japanese).
  - \* (bb) Map of prefecture (part Japanese).
- (9) Moji:
- (a) Interrogation.
  - (b) Attack data.
  - (c) Production, labor hours, labor force, and electric power consumption.
  - (d) Factory questionnaire control sheet.
- (10) Oita:
- (a) Interrogation and general report on city.
  - (b) Population.
  - (c) Construction and buildings.
  - (d) Industrial labor and industrial labor hours.
  - (e) Factory questionnaire control sheet.
  - (f) Production, labor hours, labor force, and electric power consumption.
  - (g) Industrial production.
  - (h) Coal, charcoal consumption.
  - (i) Transportation (freight).
  - (j) Map of Oita City.
- (11) Okayama:
- (a) General report on city.
  - (b) Interrogations.
  - (c) Attack data.
  - \* (d) Factory questionnaire control sheet.
  - (e) Tables showing calculations from statistical summaries.
- (12) Omuta (consisting of 3 envelopes):
- (a) Provisional report on city.
  - (b) Building repair and construction.
  - (c) Air-raid casualties and damage.

- (d) Statistics and graphs on population.
- (e) Data on consumption of various commodities.
- (f) Labor and production.
- (g) Data on freight and transportation.
- (h) Aerial photos.
- (i) Maps.

----- [USB-13 Roll No. 303] -----

- (13) Osaka (consisting of 12 envelopes).
  - (a) Draft of report on city.
  - (b) Outline for study of city.
  - (c) Chart showing organization of government.
  - (d) Organization of police force.
  - (e) Interrogations.
  - (f) Data on financial status.
  - (g) Communications system
  - \* (h) Air-raid damage (part Japanese)
    - (i) Air-raid casualties.
  - \* (j) Construction and repair of buildings (part Japanese).
  - (k) Gas consumption.
    - (l) Coal, coke, charcoal consumption.
  - (m) Electric power consumption.
  - (n) Charts showing water consumption.
  - (o) Industrial labor hours.
  - \* (p) Employment and labor force (part Japanese).
  - \* (q) Tables and charts pertaining to industrial labor (part Japanese).
  - \* (r) General survey of coal situation (part Japanese).
  - \* (s) Organization of Koeki Eidan Trade Corporation (part Japanese).
  - \* (t) Wholesale trade (part Japanese).
  - \* (u) Retail trade (part Japanese).
  - \* (v) Industrial production (part Japanese).
  - (w) Water works (damages and distributions).
  - (x) Price control and distribution of daily necessities.
  - \* (y) Statistics showing the changes of prices of daily necessities (part Japanese).
  - (z) Water transportation and harbor facilities.
  - \* (aa) Railroad transportation (part Japanese).

\*(bb) Trams, buses, trucks, and automobiles (part Japanese).

----- [USB-13 Roll No. 303A] -----

\*(cc) Names of factories (part Japanese).

\*(dd) Reports on factory investigation (part Japanese).

\*(ee) Conditions of factory evacuation enforcement (part Japanese).

\*(ff) Blueprints of Osaka steel factory (part Japanese).

\*(gg) Statistics on factory in Osaka (part Japanese).

\*(hh) Maps (part Japanese).

\*(ii) Maps (part Japanese).

(14) Sakai (consisting of 2 envelopes):

\*(a) Population.

\*(b) Construction and building.

\*(c) Air-raid damages and casualties.

\*(d) Employment, industrial labor, industrial labor hours (part Japanese).

\*(e) Industrial production.

(f) Tables showing calculations from statistical summaries.

\*(g) Consumption of electric power and fuel.

\*(h) Wholesale and retail trade.

\*(i) Freight transportation (part Japanese).

(j) Maps of the City.

(15) Shimonoseki (consisting of 2 envelopes):

(a) Summary and general conclusion on Shimonoseki urban area attack.

(b) Population.

(c) Construction and buildings.

(d) Air-raid casualties and bomb damages on the buildings.

(e) Employment, industrial labor and industrial labor hours.

\*(f) Factory questionnaire control sheet.

(g) Industrial production.

(h) Coal, gas, electric power, coke and charcoal consumption.

(i) Wholesale and retail trade.

(j) Transportation of freight including one interrogation.

(k) Maps of the city.

(16) Wakayama:

\*(a) Conditions during the war.

\*(b) Construction and repair of buildings (part Japanese).

\*(c) Air-raid damages and casualties.

- \**(d)* Population.
- \**(e)* Employment, industrial labor and industrial labor hours.
- \**(f)* Industrial production.
- \**(g)* Fuel consumption (part Japanese).
- \**(h)* Freight transportation.
- \**(i)* Wholesale and retail trades.
- (j)* Maps of the city.

(17) Yawata:

- (a)* Attack data.

59. Effects of Air Attack on the City of Nagasaki (final report and original draft)  
(consisting of 4 envelopes).

- a.* Outline of city's history.
- b.* Population and casualty figures for both Nagasaki and Hiroshima.
- c.* Outline of Field Team operations.
- d.* List of governmental officials.
- \**e.* Population statistics (part Japanese).
- f.* Interviews.
- g.* Consumption of fuels and electric power.
- h.* Industrial labor.

----- [USB-13 Roll No. 303B] -----

- i.* Production figures.
- \**j.* Factory questionnaires.
- k.* Factory questionnaire control sheet.
- \**l.* Report on Nagasaki arms works.
- m.* Target data.
- n.* Bomb damage.
- \**o.* Air-raid casualties (part Japanese).
- p.* Repair and reconstruction of buildings.
- q.* Wholesale and retail trade,
- r.* Statistics on freight transportation by commodity.
- s.* Maps of city.
- t.* Notes and work sheets.

----- [USB-13 Roll No. 304] -----

60. Effects of Air Attack on the City of Hiroshima (final report and original draft).

- a.* General information:
  - (1) Outline of city's history.

- (2) Preliminary report of atomic attack.
  - (3) Field Team operations.
  - (4) List of persons to be interviewed.
  - \* (5) Financial statement (part Japanese).
  - (6) Population statistics .
- b.* Data pertaining to employment:
- (1) Employment.
  - (2) Industrial labor.
  - \* (3) Industrial labor hours (part Japanese).
- c.* Data pertaining to industry:
- \* (1) Industries in Hiroshima Prefecture (Japanese pamphlet and translation).
  - \* (2) List of factories (part Japanese).
  - \* (3) Production, labor force, and electric power consumption (part Japanese).
  - (4) Data on Mitsubishi Heavy Industries, Ltd—Gion factory, Hiroshima prefecture.
- d.* Industrial production:
- \* (1) Chemical industry (part Japanese).
  - (2) Electrical industry.
  - \* (3) Food Industry (part Japanese).
  - (4) Fuel industry.
  - (5) Machine industry.
  - \* (6) Metal industry (part Japanese).
  - \* (7) Shipbuilding industry (part Japanese).
  - \* (8) Textile industry (part Japanese).
  - \* (9) Miscellaneous industry (part Japanese).
- e.* Data pertaining to consumption:
- (1) Electric power consumption.
  - (2) Fuel consumption.
- f.* Data pertaining to building and construction.
- (1) Number of buildings.
  - (2) Number and cost of building repairs.
  - (3) Bomb damages to buildings.
  - (4) Residential buildings and units.
  - \* (5) Water works in the city.
- g.* Data pertaining to shipping and transportation:
- (1) Rail and truck transportation.
  - (2) Shipping.

\* (3) Military shipping (part Japanese).

(4) Military rail transportation.

*h.* Atomic bomb attack (consisting of 2 envelopes):

(1) Preliminary report.

(2) Preliminary report (draft).

(3) Air defense and matters concerning damages from air raid of 6 August 1945.

(4) Preliminary report on Hiroshima City.

(5) Bomb damages on military installations

(6) Background material on atomic bombing of Hiroshima.

(7) Japanese survey of atomic bombing of Hiroshima.

(8) Damage reports on the city.

*i.* Photos and maps:

(1) Four maps of Hiroshima City.

(2) Photographs.

(3) Aerial photos of Japan Steel Company, Hiroshima City.

(4) Aerial photos of Hiroshima City.

61. Air Forces Allied with the United States in the War Against Japan (final report and original draft).

*a.* A summary report alphabetically by city—total tonnage dropped on Japan only, by all United States Air Forces and Navy.

----- [USB-13 Roll Nos. 304-305] -----

62. Japanese Air Power (final report and original draft).

*a.* Notes and work sheets:

(1) Conception of the use of air power.

(2) Growth in the capabilities of the air forces.

(3) Tactical employment of the Japanese Air Forces.

(4) Japanese strategy.

(5) The defeat of the Japanese Air Force.

----- [USB-13 Roll No. 305] -----

63. Japanese Air Weapons and Tactics (final report and original draft).

*a.* Baka (piloted rocket bombs):

(1) Aircraft report No. 1.

(2) Aircraft report No. 3.

(3) Special PI report No. 21.

(5) Special report No. 16—possible launcher at Kanoya airfield.

(6) Report on ground-launched suicide rocket bombs.

- (7) The Japanese piloted rocket-propelled suicide aircraft (Baka).
  - (8) Possible targets for attack on suicide rocket plane production.
  - (9) Target information sheet.
  - (10) Extracts from Intelligence Bulletin pertaining to the Baka.
  - (11) Photographs.
  - (12) Vol. I, Weekly Intelligence, pertaining to piloted rocket bomb.
64. The Effect of Air Action on Japanese Ground Army Logistics (final report).
- a.* Ground Army logistics:
- (1) The establishment of the Southwest Pacific area.
  - (2) Plans for seizure of Lae, Salamaua, western New Britain Solomons area.
  - (3) Outline plan for operations of the Southwest Pacific area.
  - (4) List of commanding generals and chiefs of staff—Japanese armies.
  - (5) List of staff officers concerned in the southern campaigns.
  - (6) Report on intendance department.
  - (7) Stocks and standard of arms and equipment for supply.
  - (8) History of Japanese Army units.
  - \* (9) China Expeditionary Force line of communications.
  - (10) Strength of 12th Army area.
  - (11) Strength of Eastern Area Army units.
  - \* (12) General map of northern China and Manchuria.
  - (13) Break-down of a headquarters of a post oh line of communications.
  - (14) Enemy airplane activities—extract from diary.
  - (15) Map showing strategic movements of division—Kyushu.
  - \* (16) Map of Northern China.
  - \* (17) Reply to questionnaire pertaining to ordnance (part Japanese).
  - (18) Map giving location of general armies, area armies and estimated divisional districts.
  - (19) General map of southern Japan.
  - \* (20) How munitions are supplied under fire.
  - (21) List of equipment for standard size division.
  - (22) Clothing, provisions, office equipment and daily necessities.
  - (23) Number of troops in each district in southern region.
  - (24) Stock of foodstuffs at the time of surrender.
  - (25) Report on Japanese supply in Siam.
  - (26) Chart showing percentage of supplies and ammunition shipped to theaters of operations.



- (27) Status of Japanese military supplies in Luzon Island.
- (28) Supply routes.
- \*(29) Supply depots in South Pacific.
- (30) List of Depots.
- (31) Charts showing organization of military clothing factory and clothing depot.
- (32) Charts.
- (33) Copies of interviews.
- (34) Strength data.
- \*(35) Actual amount of munitions (arms) (part Japanese).
- (36) Form of ordnance receipt and supply book.
- (37) Countermeasure taken against air raid.
- (38) Copies of oral interrogations.
- (39) Location of forces and supply depots in Kyushu.
- (40) Amount of ammunition expended for one battle.
- (41) Timetable of Pacific War.
- \*(42) Staff members of Southern Army rear echelon.
- \*(43) Allocation of basic war materials.

*b.* Petroleum, oil and lubricants:

- (1) Method of distribution of petroleums.
- (2) Oil ministerial questionnaire.
- (3) List products broken down.
- (4) Oil refinery production at Sumatra.
- (5) Stock position of petroleum products.
- (6) Damages sustained by air raids—Singapore area.
- (7) The destruction of oil stores and its effect on Japanese logistics.
- (8) Case "A" tankers at the outbreak of the war.
- (9) Preliminary POL report.
- (10) Flow chart of POL 14th Army area.
- \*(11) Copy of questionnaire in Japanese.
- (12) Miscellaneous data, notes and work sheets.
- (13) Original draft.

----- [USB-13 Roll No. 306] -----

- (14) Miscellaneous data, notes and work sheets.
- (15) Finished charts and tables.
- (16) Reply to oil questionnaire submitted to the Japanese Army by on division.

*c.* Ground logistics—ordnance:

- (1) Organization chart of the Japanese Army ordnance administration headquarters.
- (2) Chart showing demand and supply of munitions.
- (3) Standard quantity of ammunition supply for one operation.
- (4) Data relating to the supply of signal and communication equipment.
- (5) Production of optical equipment.
- (6) Supply system to the overseas forces.
- (7) Report by Army Ordnance Bureau—Japanese.
- (8) Questions.
- (9) Draft of interview.
- (10) Table of production and its plan of military supply from 1931-40.
- (11) General production data—Army ordnance.
- (12) Inventory of army supply, pork.
- (13) List of conferees attending the 1944 conference of chiefs of ordnance departments.
- (14) Request for data from each arsenal.
- (15) Monthly data concerning munitions supplied overseas by the Army allotted ships.
- (16) Development of Japanese motor vehicle industry.
- (17) Form of bill for sending and receiving of weapons.
- (18) Establishment of priority and distribution of production.
- (19) The table for transfer of ammunition at Tana and Onda districts. [田奈]
- (20) Monthly supply of ordnances to Burma area.
- (21) Scale of ammunition supply to a standard-sized division.
- (22) Annual artillery production.
- (23) Index to Army ordnance production.
- \* (24) Untranslated Japanese document pertaining to supply depots.
- (25) Total military supplies.
- (26) Inventory of main ordnance in storage.
- (27) Map of northern Philippines.
- (28) Requests for data.
- (29) Tables.
- (30) Data for decision of supply quantity.
- (31) The Percent summary of condition of war munitions.
- (32) Supply ratio for one campaign.
- (33) Hirakata branch of Osaka supply depot (overlay).

- (34) Physical inspection—Hiroshima ordnance depot.
  - (35) Physical inspection—Uji ordnance depot.
  - (36) Copies of interrogations.
  - (37) Development of Japanese motor vehicle industry—preliminary report.
  - (38) Information pertaining to Okinawa campaign.
  - (39) Stocks at the end of year.
  - (40) Objective and scope of the report.
  - (41) General aspects of ground logistics study.
  - (42) Production of tanks and tractors.
  - (43) Interrogation—requirements and supply of Japanese ground armies.
  - \*(44) Miscellaneous data, notes and work sheets (part Japanese).
  - (45) Map showing disposition of Sho Group.
  - (46) Long-range air navigation chart, Philippine Islands.
- d.* Ground logistics—medical:
- (1) Locations, names and strength of units being supplied.
  - (2) Volume and percentage of medical supplies to the Army from 1939-45.
  - (3) The transportation system of repatriated patients.
  - \*(4) Losses suffered by Army Air Forces units abroad (part Japanese).
  - (5) Statistics of casualties evacuated from southern regions.
  - (6) General remarks.
  - (7) Chart of organization of military medical stores depot.
  - (8) Chart showing supply system.
  - (9) Statistics casualties.
  - (10) Production of medical supplies.
  - (11) Report on Japanese Army medical section.
  - (12) List of Japanese merchant ships lost as a result of submarine attacks.
  - (13) Broadcast by Raymond Graham Swing.
  - \*(14) Questions asked by the Survey.
  - \*(15) List of casualties.
  - (16) Japanese staff notebook.
  - (17) Miscellaneous data, notes and work sheets.
  - \*(18) Data pertaining to casualties (part Japanese).
  - (19) Capacity and system for accommodation of patients.
  - \*(20) System of casualty evacuation (part Japanese).
  - \*(21) National aid to the medical supplies industry.
  - \*(22) Number of patients admitted to hospitals.

- \* (23) Plans for wartime medical supply.
  - (24) Quarterly production of 43 articles of essential medicine.
  - \* (25) Medical chests.
  - (26) Report pertaining to medical supplies.
  - (27) Damage done to domestic army hospitals.
  - (28) Medical stores in each unit.
  - \* (29) Number of hospitals and patients (part Japanese).
  - (30) Miscellaneous data, notes and work sheets.
- e.* Ground logistics—transportation:
- (1) Document on Navy transport submarines.
  - \* (2) Document on Army transport submarines (part Japanese).
  - (3) Memorandum pertaining to submarine operations.
- f.* Ground logistics—shipping:
- \* (1) Outline of the shipping in China (part Japanese).
  - \* (2) Shipping questionnaire and answers (part Japanese).
  - (3) Change of the transport caused by bombing.
  - (4) List of sunken ships on the Yangtze River.
  - (5) Transported cargo from Japan to Shanghai.
  - (6) Summary of the transportation on the Yangtze River in the years 1937-45.
- g.* Ground logistics—rail transportation:
- \* (1) Report on the Chinese railroads (part Japanese).
  - \* (2) Table of quantity of military transport trains (part Japanese).
  - \* (3) Railroad transportation questionnaire and answers (part Japanese).
  - \* (4) Planned transport capacity and actual transport results.
  - \* (5) Map of communications network—China.
  - (6) Number of freight cars used.
  - (7) Mileage of military trains.
  - (8) Reports on railway transportation in Burma.
  - (9) Quantity of military supplies transported since the China Incident.
  - (10) Losses inflicted to railroads by air raids.
  - (11) List of tank cars.
  - (12) Dimensions of railway cars.
  - (13) Interrogation pertaining to rail transport.
- h.* Ground logistics—motor transportation:
- \* (1) General report on motor transportation.
  - (2) Preliminary report—motor vehicles.

----- [USB-13 Roll Nos. 306-306A] -----

(3) Motor transportation questionnaire.

----- [USB-13 Roll No. 306A] -----

\* (4) Report on motor transportation for China theater (part Japanese).

*i.* Logistics—intendance:

\* (1) Investigation of the imported provisions for Army (part Japanese).

(2) Miscellaneous data and work sheets.

(3) Data on supply of clothing and provisions.

(4) Charts.

*j.* Naval logistics:

(1) Report pertaining to Naval logistics, Singapore.

(2) General report.

(3) List of strategic targets attacked by Naval units.

(4) Navy air and bombardment targets.

*k.* Japanese Army veterinary service and remount depots:

(1) Evacuation of sick and wounded horses of the Japanese Expeditionary Forces.

\* (2) Supply of horses and other animals for Japanese Army use (part Japanese).

(3) Supply of horses for Japanese Army, remount depots.

(4) Veterinary supplies stored in Singapore.

(5) The production of veterinary materials.

(6) General report on veterinary department.

*l.* Troop dispositions in China and Manchuria:

(1) Troop disposition in China, August 1941.

(2) Troop disposition in China, August 1945.

(3) Troop disposition in Manchuria, August 1941.

(4) Troop disposition in Manchuria, August 1945.

*m.* Miscellaneous data, notes and work sheets pertaining to Manchuria.

----- [USB-13 Roll No. 306B] -----

\* *n.* Maps.

*o.* Questionnaires.

*p.* The effect of air action on Japanese Ground Army logistics (mimeographed copies of Chapters I, II, III, IV, V, VI & VII).

65. Employment of Forces Under the Southwest Pacific Command (final report and original draft).

----- [USB-13 Roll No. 307] -----

66. The Strategic Air Operations of Very Heavy Bombardment in the War Against

- Japan (Twentieth Air Force) (final report and original draft).
- a.* Operational charts, notes, and work sheets.
  - b.* Graphs:
    - (1) Combat sorties of the Twentieth Air Force.
    - (2) B-29 combat crew inventory.
    - (3) Actual vs. planned bombing sorties.
    - (4) B-29 aircraft accidents per 100,000 flying hours.
  - c.* Air-raid damage to major cities in Japan.
  - d.* Percentage of target damage.
  - e.* Copy of questionnaire to be submitted to Tojo, Hideki.
  - f.* Major attacks on Japanese cities.
  - g.* Statistical summary of Twentieth Air Force operations against Japan.
  - h.* Statistical summaries:
    - (1) Form 34, target bombing against Japan—military.
    - (2) Form 34, target bombing against Japan—miscellaneous.
    - (3) Form 34, target bombing against Japan—industrial.
    - (4) Form 34, target bombing against Japan—transportation.
    - (5) Incendiary attacks against Japanese cities.
    - (6) The air attack in the Pacific—by target by date.
    - (7) The air attack against Japan—city by date.
    - (8) The air attack against Japan—day by day attacks.
    - (9) The air attack against Japan—city by target.
    - (10) The air attack against Japan—target listing.
    - (11) The air attack against Japan—by city.
67. Air operations in China, Burma, India—World War II (final report and original draft).
68. The Air Transport Command in the War Against Japan (final report and original draft).
69. The Thirteenth Air Force in the War Against Japan (final report and original draft).  
 ----- [USB-13 Roll Nos. 307-308]-----
70. The Seventh and Eleventh Air Forces in the War Against Japan (final report and original draft).  
 ----- [USB-13 Roll No. 308]-----
- a.* The air attack in the Pacific—by target by date—Seventh Air Force.
  - b.* Operations of the Seventh Air Force (preliminary report).
71. The Fifth Air Force in the War Against Japan (final report and original draft).

72. The Interrogations of Japanese Officials (Vols. I and II) (final report).
- a. Memoranda to Japanese officials:
    - (1) Memoranda to officials of Japanese Navy requesting specific information.
    - \* (2) List of Japanese naval vessels and specific information pertaining to them submitted by Japanese officials in answer to questionnaire (English and Japanese).
    - (3) Photostat copies of data submitted by Japanese.
- [USB-13 Roll Nos. 308-309]-----
73. Campaigns of the Pacific War (final report).
- a. Report on the Philippine Campaign.
74. The Reduction of Wake Island (final report).
- a. Negatives.
- [USB-13 Roll No. 310]-----
75. The Allied Campaign Against Rabaul (final report and original draft).
- a. Negatives.
- [USB-13 Roll Nos. 310-310A]-----
76. The American Campaign Against Wootje, Maloelap, Mille, and Jaluit (Vols. I, II and III) (final report and original draft).
- [USB-13 Roll No. 311]-----
77. The Reduction of Truk (final report and original t draft).
- a. Maps of defense installations.
  - b. Key to mines laid in Truk area—Navy (translation).
  - c. Truk communication system:
    - (1) Communication system Pacific Ocean area.
    - (2) Communication system within Truk Atoll.
    - (3) Wire telephony in Dublon.
    - (4) Wire telephony in Moen.
    - (5) Truk islands radio network.
    - (6) Dublon telephone network.
    - (7) List of essential communication equipment.
  - d. Truk hydrographic data:
    - \* (1) Nanyo Gunto (South Seas), pilot.
    - \* (2) List and description of navigational beacons in Truk Atoll.
    - (3) Hydrographic charts of Truk Atoll and other atolls in the Eastern Caroline Islands.
  - e. Military equipment—Navy (translation).

- f.* List of ordnance ammunition-Army (translation).
- g.* Forms and diagrams of Fourth Fleet supply department:
  - (1) Physical layout of the Fourth Fleet supply department.
  - (2) Stub requisition form.
  - (3) Organization diagram of the 104th Air Arsenal.
- h.* Report of the Fourth Fleet:
  - \* (1) History of important installations.
  - \* (2) Maps showing various military installations and units.
  - \* (3) Future plans for installations.
  - (4) Organization of units at Truk Island.
  - \* (5) Naval strength at Truk Island.
  - \* (6) Order of battle and plan of operations.
  - \* (7) Data pertaining to supply.
  - \* (8) Number of aircraft transported via Truk Island.
  - \* (9) Arrival and departure of ships at Truk Island.
  - \* (10) List of ships sunk and damaged.
  - \* (11) Damage reports.
  - \* (12) Data pertaining to POW.
  - \* (13) Civil administration on Truk.
  - (14) System of public utilities.
  - \* (15) Answers to questions pertaining to medicines.
  - \* (16) Air-raid casualty list.

----- [USB-13 Roll No. 311A] -----

- i.* Japanese plans of Truk installations:
  - \* (1) Plan of Naval base—Dublon.
  - \* (2) Plan of 41st Naval Garrison headquarters.
  - \* (3) Plan of transportation department.
  - \* (4) Dublon radio transmitting station (Old).
  - \* (5) Dublon radio transmitting station (New).
  - \* (6) Ship repair base (Fourth Naval workyard).
  - \* (7) Submarine base—Dublon.
  - \* (8) No. 2 airfield—Moen.
  - \* (9) Radio transmitting station—Moen.
  - \* (10) Plan of radar station showing AA defenses—Moen.
  - \* (11) No. 1 airfield and AA defenses—Moen.
  - \* (12) Eten airfield—Eten.



- \*(13) Param airfield.
- \*(14) AA defenses—Param.
- \*(15) Diagram of bombings—Fefan.
- \*(16) Uman.
- \*(17) Dublon lookout stations.
- \*(18) Airplane repair—Moen.
- j.* Report of 52d Division:
  - (1) English translation of contents.
  - \* (2) Diagram of distribution and movements of Army units at Truk.
  - \* (3) Documents pertaining to major operations on Truk Island—Army.
  - \* (4) Diagrams of the conditions of location at the time of changing positions.
  - \* (5) Conditions' of major fortifications and diagrams of the disposition of beach mines\*
  - \* (6) Condition of organization and defensive positions of the Army.
- \**k.* Personnel of Combined Fleet (January 1943).
- \**l.* Report of the civil government.
- m.* Supplemental report—Truk.  
----- [USB-13 Roll Nos. 311A-312] -----
- n.* Photographs—Truk.  
----- [USB-13 Roll No. 312]-----
- o.* The story of a bypassed sentry box—Truk.  
----- [USB-13 Roll Nos. 312-312A] -----
- p.* Physical damage and area study—Truk.  
----- [USB-13 Roll No. 313]-----
- q.* Report on native population—Truk.  
----- [USB-13 Roll Nos. 313, 313A, 314] -----
- r.* History, mission and operations—Truk.  
----- [USB-13 Roll No. 314]-----
- 78. The Offensive Mine Laying Campaign Against Japan (final report).
  - a.* Charts showing location of mine fields.
- 79. Report of Ships Bombardment Survey Party—Foreword, Introduction, Conclusions, and General Summary.  
----- [USB-13 Roll No. 314A] -----
  - a.* General data:
    - (1) Carbon copy of Report No. 79.
    - (2) Outline and tentative brief of final report.

- (3) Preliminary summary of report of ships bombardment survey party.
  - (4) Weight variations in production lots of TNT-loaded GP bombs.
  - (5) List of naval repair shops under the jurisdiction of the Naval technical department and dock-yards outside the Navy ship-building section.
  - (6) United States Navy air effort, Japanese home islands, World War II, ordnance expended.
  - (7) Microfilm—Naval vessels under construction at end of war.
  - (8) Microfilm—merchant ships sunk by submarines.
  - (9) Microfilm—list of Japanese ships sunk.
- \**b.* Naval war preparation chart for 1941 fiscal year.
- c.* Japanese Navy official reports:
- \* (1) Official reports on various Naval operations performed between 1 June 1943 and 30 November 1943.
  - (2) Partial English translation.
  - (3) Japanese Naval planning.
- d.* Miscellaneous papers:
- (1) Progress reports.
  - (2) Memoranda pertaining to reports.
  - (3) Memoranda pertaining to personnel.
- [USB-13 Roll No. 315] -----
- e.* Log on negatives.
- f.* Negatives and prints.
- [USB-13 Roll Nos. 315-316] -----
- g.* Negatives and prints.
- [USB-13 Roll No. 316] -----
- h.* Album of prints.
- i.* Album of prints.
- j.* Album of prints.
- k.* Album of prints.
- [USB-13 Roll No. 317] -----
- l.* Unpublished reports:
- (1) Japanese naval logistics in World War II (type-written copy).
  - (2) The air effort against Japan (five copies).
80. Report of Ships Bombardment Survey Party (Enclosure A), Kamaishi Area.
- a.* Bombardment of Kamaishi (14 July 1945):
- (1) Action reports.

----- [USB-13 Roll No. 317B] -----

*b.* Bombardment of Kamaishi (9 August 1945):

- (1) Action reports.
- (2) Letter from Office of Chief of Naval Operations relative to report data sheets.
- (3) Letter from Commander-in-Chief, United States Pacific Fleet relative to enclosures A through G.
- (4) Enclosures A through G.

*c.* Carbon copies of final report (2).

----- [USB-13 Roll No. 317A] -----

*d.* Blueprints (Kamaishi):

- \* (1) Japanese blueprints and drawings of steel works and urban area.

----- [USB-13 Roll No. 317B] -----

*e.* Kamaishi steel works and urban area:

- (1) Physical damage including rough drafts of report.
- (2) Measurements.
- (3) Economic data.
- (4) Urban area damage.

----- [USB-13 Roll No. 318] -----

*f.* Presurvey intelligence (Kamaishi):

- (1) Aerial photos, maps. PI reports and PW reports.

81. Report of Ships Bombardment Survey Party (enclosure B), Hamamatsu Area.

*a.* Pageproofs.

*b.* Bombardment of Hamamatsu—29, 30 July 1945:

- (1) Action reports.

*c.* Carbon copies of final report.

*d.* Hamamatsu railroad station and roundhouse.:

- \* (1) Economic data including reports in Japanese.
- \* (2) Physical damage notes and drafts including five Japanese drawings.
- (3) Presurvey intelligence.

*e.* Imperial government railroad shops, Hamamatsu:

- (1) Economic data prepared by Japanese including building damage (financial loss).
- (2) Original plot plant.
- \* (3) Japanese blueprints (layout and building detail).
- (4) Notes and work sheets pertaining to physical damage.
- (5) Presurvey intelligence.

*f.* Suzuki Loom Company, Ltd. (Takatsuka plant):

- (1) Economic data.
- (2) Physical damage.
- (3) Presurvey intelligence.

*g.* Suzuki loom factory, Hamamatsu works:

- \* (1) Physical damage survey draft and Japanese drawings.
- (2) Japanese economic report.
- (3) Presurvey intelligence.

*h.* Nakajima industry, Hamamatsu:

- (1) Economic data.
- (2) Physical damage.
- (3) Presurvey intelligence.

----- [USB-13 Roll No. 318A] -----

*i.* Enshu loom works, Hamamatsu:

- (1) Economic data.
- (2) Physical damage notes including 4 Japanese drawings.
- (3) Presurvey intelligence.

*j.* Nishikawa Tool Company (Asano Heavy Industries Company), Hamamatsu:

- (1) Japanese drawings, Japanese economic report, aerial photos, and damage summary.

*k.* Hamamatsu spinning mill:

- (1) Japanese drawings, economic report and damage summary draft.

*l.* Japan Musical Instrument Company, Hamamatsu:

- (1) Economic data.
- (2) Notes pertaining to physical damage.
- \* (3) Japanese drawings and blueprints.
- (4) Physical damage notes and drawings (Tenryu plant).
- (5) Presurvey in intelligence.

*m.* Military barracks (Hamana Naval Camp), Hamamatsu:

- (1) Physical damage notes including original sketches and Japanese drawings.

*n.* Tenryu Airfield Hamamatsu:

- (1) Presurvey intelligence.

*o.* Tenryu River bridge:

- (1) Presurvey intelligence and Japanese description of damage.

*p.* Bentenjima bridge and batteries, Hamamatsu:

- (1) Presurvey intelligence and Japanese description of bridge damage.

----- [USB-13 Roll No. 319] -----

*q.* Hamamatsu urban area:

- \* (1) Economic and physical damage data including Japanese documents.
- (2) XXI Bomber Command report on 17 June Hamamatsu raid.

82. Report of Ships Bombardment Survey Party (Enclosure C), Hitachi Area.

----- [USB-13 Roll Nos. 319-319A] -----

*a.* Carbon copies of final report.

----- [USB-13 Roll No. 319A] -----

*b.* Bombardment of Hitachi (17-18 July 1945):

- (1) Action reports.

*c.* Hitachi arms factory:

- (1) Presurvey intelligence
- (2) Physical damage data including rough notes.
- \* (3) Japanese drawings.
- (4) Economic data including Japanese reports.

*d.* Hitachi copper refinery.

- (1) Presurvey intelligence.
- \* (2) Economic data including Japanese report (part Japanese).
- \* (3) Physical damage including typed notes and Japanese drawings (part Japanese).

*e.* Hitachi urban area:

- (1) Presurvey intelligence.
- (2) Report on 19-20 July IB raid on Hitachi.
- (3) Report on 1-2 August IB raid on Mito.
- (4) Japanese drawings of city and housing areas.
- (5) Damage drafts and notes including Japanese reports (part Japanese).

*f.* Hitachi engineering, Taga plant:

- (1) Presurvey intelligence.
- (2) Japanese blueprints.
- (3) Economic data including Japanese reports.
- (4) Physical damage material.

*g.* Hitachi engineering works, Kaigan plant:

- (1) Presurvey intelligence.
- \* (2) Physical description and damage notes (part Japanese).

----- [USB-13 Roll No. 320] -----

- \* (3) Economic data on Hitachi works including Japanese reports (part Japanese).

- (4) XXI Bomber Command report on 10 June 1945 raid.
  - h.* Hitachi engineering, Shibauchi plant:
    - (1) Presurvey intelligence.
    - (2) Physical damage data including Japanese reports, rough notes.
    - (3) Japanese drawings.
  - i.* Hitachi engineering, Densen plant:
    - (1) Presurvey intelligence.
    - (2) Physical damage material including drawings, typed notes and damage survey.
  - j.* Hitachi Manufacturing Company, Takshagi plant:
    - (1) Presurvey intelligence.
    - (2) Schematic view of Takahagi works.
  - h.* Hitachi steel works:
    - (1) Presurvey intelligence.
    - (2) Japanese drawings.
    - (3) Economic data including Japanese reports.
    - \* (4) Physical damage notes including measurements (part Japanese).
83. Report of Ships Bombardment Survey Party (Enclosure D) Hakodate Area.
- a.* Carbon copies of final text:
  - b.* Port of Hakodate:
    - (1) Presurvey intelligence.
    - (2) Air action reports, work sheets.
    - \* (3) Economic data including Japanese reports and drawings (part Japanese).
84. Report of Ships Bombardment Survey Party (Enclosure E), Muroran Area.
- a.* Printer's copy of report No. 84.
- [USB-13 Roll No. 320A] -----
- b.* Carbon copies of final text.
  - c.* Bombardment of Muroran—15 July 1945:
    - (1) Action reports.
  - d.* Wanishi iron works:
    - \* (1) Japanese blueprints.
    - \* (2) Japanese blueprints.
- [USB-13 Roll No. 321] -----
- (3) Presurvey intelligence material.
  - (4) Notes and drafts of physical description and damage.
  - (5) Economic data including notes, drafts, and Japanese data.

- e.* Nihon steel works, cranes and docks (Muroran):
  - (1) Presurvey intelligence.
  - (2) Economic data including Japanese reports.
  - (3) Physical description and damage data including Japanese drawings and rough drafts.

- f.* Muroran urban area:

- (1) Presurvey intelligence.
  - (2) Rough notes including nine Japanese drawings.
  - (3) First drafts of urban area report.

85. Report of Ships Bombardment Survey Party (Enclosure F), Shimizu Area.

- a.* Divisional reports:

- (1) Final report.
  - (2) Printer's copy.

----- [USB-13 Roll Nos. 321-321A] -----

- b.* Bombardment of Shimizu—30-31 July 1945:

- (1) Action reports.

----- [USB-13 Roll No. 321A] -----

- c.* Japan Light Metals Alumina plant (Shimizu):

- (1) Presurvey intelligence.
  - (2) Physical damage data including Japanese drawings.
  - (3) Economic data including Japanese reports.

- d.* Vegetable oil plant and refinery (Shimizu):

- (1) Physical damage photo and Japanese charts.
  - (2) Economic data including Japanese reports.

- e.* Sumitomo Light Metals Company, Shimizu:

- (1) Presurvey intelligence.
  - (2) Economic and functional data provided by Japanese.

- f.* Shimizu shipyard:

- (1) Physical damage material.

- g.* Shimizu urban area:

- (1) Presurvey intelligence.
  - (2) XXI Bomber Command Report on IB raid of 7 July 1945.
  - \* (3) Damage notes and charts (part Japanese).

- h.* Kambara works, Japanese light metals; Japanese Steel Tube Company; Shimizu refinery; Toa Oil Company:

- (1) Japanese report on Kambara works, Japanese light metals.
  - (2) Japanese report on Japanese Steel Tube Company.
  - (3) Japanese report and drawings on Shimizu refinery, Toa Oil Company.
  - (4) Complete first draft of entire report.
86. Report of Ships Bombardment Survey Party (Enclosures G and H), Shionomi-Saki and Nojima-Saki areas.
- a.* Carbon copies of final text (Shionomi-Saki area)
  - b.* Bombardment of Shionomi-Saki (24-25 July 1945):
    - (1) Action reports.
  - c.* Kushimoto-Shionomi-Saki:
    - (1) Presurvey intelligence.
    - (2) Miscellaneous data including Japanese reports and drawings.
  - d.* Carbon copy of final text (Nojima-Saki area).
  - e.* Bombardment of Nojima-Saki:
    - (1) Action reports.
  - f.* Radar installation—Nojima-Saki, Honshu:
    - (1) Presurvey intelligence.
87. Report of Ships Bombardment Survey Party (Enclosure I) Comments and Data on Effectiveness of Ammunition.
- a.* Original draft.
  - b.* Computations and tables including drawing reproductions.
  - c.* Reference material.
  - d.* Carbon copies of final report.
- [USB-13 Roll No. 322] -----
88. Report of Ships Bombardment Survey Party (Enclosure J), Comments and Data on Accuracy of Firing.
- a.* Computations on accuracy.
  - b.* Carbon copies of final reports.
89. Reports of Ships Bombardment Survey Party (Enclosure K), Effects of Surface Bombardments on Japanese War Potential.
- a.* Printer's copy.
  - b.* Carbon copies of final report.
  - c.* Work sheets.
90. Effects of the Incendiary Bomb Attacks on Japan—A Report on Eight Cities (final report and original draft).
- [USB-13 Roll No. 322A] -----



*a.* Imabari:

- (1) Preliminary report.
- (2) Damage plot.
- \* (3) Damage data on Imabari plants.
- (4) Negatives.
- (5) Kurashiki Industrial Company, Ltd.:
  - \* (a) Plant layout.
  - (b) Negatives.

*b.* Oita:

- (1) Preliminary report—draft.
- (2) Notes and work sheets.
- \* (3) Maps (part Japanese).

----- [Missing] -----

- \* (4) Oita newspaper publications.

----- [USB-13 Roll No. 323] -----

- \* (5) Statistical report on Osaka for 1943.
- \* (6) Public utility layouts:
  - (a) High tension lines.
  - (b) Gas mains.
  - (c) Gas stations.
  - (d) Water system.
- (7) Building construction data:
  - \* (a) Laws governing building construction.
  - (b) Structural notes and key map showing building numbers.
- (8) Air-raid data:
  - \* (a) Air-raid report.
  - \* (b) Air-raid defense manual.
  - \* (c) Meteorological report for July 1943.
- \* (9) Damage plot.
- (10) Negatives.

*c.* Tokyo:

- (1) Fire damage data:
  - (a) Fire study.
  - (b) Hachioji fire damage plot.
  - (c) Fire damage plots.
  - (d) Aerial photos.

- (e) Special report on the incendiary attack against Japanese urban industrial areas.
- (2) Industrial survey.
- (3) Maps:
  - (a) Principal part of the city.
  - (b) Tokyo and vicinity.
  - (c) City plan.
  - (d) Area covered by wooden buildings
  - (e) Density of population.
- (4) Ward layouts.
- (5) Water system layout.
- (6) Bomb plot.
- (7) Prints and negatives.
- \* (8) Damage plots.

*d. Aomori:*

- (1) Fire study.
- (2) Notes and work sheets.
- (3) Maps.
- \* (4) Water system layout.
- (5) Strike photographs.
- (6) Damage plots.
- (7) Negatives.

----- [USB-13 Roll No. 324] -----

*e. Akashi:*

- (1) Fire damage study:
  - (a) Akashi city.
  - (b) Area damage study of Nippon Tool Company.
- (2) Maps and aerophotogrammetry maps.
- (3) Air-raid damage:
  - (a) Damage sustained by principal industries.
  - (b) Damage assessment report No. 153.
  - (c) Casualties.
- \* (d) Police report.
- (e) Situation report—7 July (translation).
- (f) Analysis of damage.
- (g) Report on damage received from bombing.

(h) Prints and negatives.

f. Hachioji:

- (1) Preliminary drafts of fire study.
- (2) Probability of fire spread—graph.
- (3) Negatives.

g. Ube city:

- (1) Ten thousand-pound bomb incidents.
- (2) Fire and weapon survey.
- (3) Industrial study.
- (4) Bomb plots.
- (5) Damage plots.
- (6) Negatives.

----- [USB-13 Roll No. 324A] -----

(7) Cement factory data:

- (a) Process plan for production.
- (b) Plot plan.

(8) Okinoyama coal mine:

- \* (a) Report by company officials.
- (b) Coal dressing and transporting plant lay-out.
- (c) Map of coal fields.
- (d) Damage plot of Okinoyama colliery.
- (e) Damage plot of miners' tenement houses.

(9) Higashimiso coal mine:

- \* (a) Report by company officials.
- \* (b) Description of plants.
- \* (c) Building plot.
- (d) Mine lay-out.
- \* (e) Construction chart of miners' houses.
- \* (f) Chart of conveyor for coal.
- \* (g) Belt conveyor lay-out.

(10) Ube iron works:

- \* (a) Report by company officials.
- (b) Damage plot.

(11) Ube Nitrogen Fertilizer Company:

- \* (a) Report by company officials.
- (b) Process plan.

- (c) Damage plot.
- (d) Damage assessment.
- (12) Riken Metal Company:
  - \* (a) Report by company officials.
  - \* (b) Plant lay-out.
  - \* (c) Process plans.
  - (d) Photographs and negatives.
- (13) Ube steam power plant:
  - (a) Report by plant officials.
  - (b) Floor plans and sections.

*h.* Nagoya City:

- (1) Target information sheet.
- \* (2) Map.
- (3) Bomb plot.
- (4) Fire damage plots.
- \* (5) Investigation on damage done by air raids.
- \* (6) Weather change caused by air raids.
- \* (7) Water supply report and map.
- (8) Special report on the incendiary attacks against Japanese urban industrial area—See 90 c (1) Doc (e).

*i.* Preliminary draft reports on "Effects of Incendiary Bomb Attacks on Japan."

----- [USB-13 Roll No. 325] -----

91. Effects of the Ten-thousand Pound Bombs on Japanese Targets—Report on Nine Incidents (final report and original draft).

*a.* Toyota Motor Company, Ltd.:

- (1) Map—approximate location on Japan proper.
- \* (2) Names of plants and location in detail.
- (3) Miscellaneous lay-outs:
  - (a) Machine tool department.
  - (b) Company plants and shops.
  - (c) Antifire provisions.
- (4) Index to photographs and negatives.
- (5) A brief report of the company.
- (6) Specification of vehicles:
  - (a) Five-passenger cars.
  - (b) Trucks.

- (7) Electric power consumption.
  - (8) Building data:
    - \* (a) Construction plans for machine shop.
    - \* (b) Floor plans.
  - (9) Bomb plots:
    - \* (a) Special casting shop.
    - \* (b) Malleable casting shop.
    - \* (c) Casting shop.
    - \* (d) Cement warehouse.
    - \* (e) Scrap storehouse.
    - \* (f) Steel stock house.
    - \* (g) Machine shop.
    - \* (h) Scrap crushing room.
    - \* (i) Annealing shop.
  - (10) Damage data:
    - (a) Damage assessment work sheet.
    - \* (b) Description of damage by air raid.
    - (c) Report on the effectiveness of one 10,000-pound special bomb dropped on the target.
    - (d) Aerial photographs.
    - (e) Damage plots.
- b.* Mitsubishi Heavy Industry—Kobe:
- (1) Bomb damage to Kobe City residential districts by 10,000-pound bombs—prints and negatives.
  - (2) Preliminary draft on the Mitsubishi Heavy Industries.
  - (3) Names and description of plants.
  - (4) Elevation and side view detail of pattern shop.
  - \* (5) Damage plots.
  - (6) Photographs.
- c.* Kawasaki Locomotive and Car Company—Kobe:
- \* (1) Description and names of shops.
  - \* (2) Plans and sections of buildings.
  - (3) Photo plots.
  - (4) Damage report.
  - (5) Special damage assessment reports.
  - (6) Prints and negatives.

*d.* Shimada Urban Area—Shimada:

- (1) Preliminary report—draft.
- \* (2) Map.
- (3) Bomb plot.
- \* (4) Damage plot.
- (5) Prints and negatives.

*e.* Ube Soda Company—Ube:

- (1) Notes and work sheets.
- \* (2) Plant layout.
- (3) Building plans and sections.
- (4) Bomb plot.
- (5) Process for manufacturing soda ash and caustic soda.
- (6) Negatives.

*f.* Nagoya Arsenal—Nagoya:

- (1) Toriimatsu factory:
  - (a) Map—approximated location of toriimatsu on Japan proper.
  - (b) Preliminary report—draft.
  - (c) Plant layout.
  - (d) Construction plans.

----- [USB-13 Roll Nos. 325-325A] -----

- \* (e) Description and production capacity of plants.

----- [USB-13 Roll No. 325A] -----

- (f) Bomb plots.
- (g) Damage plots.
- (h) Damage assessment work sheet.
- (i) Schedule on buildings and machines damaged.
- (j) Bomb plot and structural damage.
- (k) Photographs.
- (2) Takagi factory—Nagoya:
  - (a) Notes and work sheets.
  - (b) Plant layout.
  - (c) Plans, elevations and sections of buildings.
  - (d) Damage plot.
  - (e) Bomb plot.
  - (f) Target information sheet.

*g.* Sumitomo Chemical Company—Niihama:

- (1) Chemical works:
  - (a) Notes and work sheets.
  - \* (b) Plant layouts.
  - \* (c) Map of Niihama, locating the Sumitomo chemical plants.
  - (d) Flow sheets.
  - \* (e) Building construction plans.

----- [USB-13 Roll No. 325B] -----

- (f) Bomb plots.
- (g) Damage plots.
- (h) Negatives.
- (i) Photographs.

- (2) Light metal works:
  - (a) Bomb and damage plots.
  - (b) Negatives.

----- [USB-13 Roll Nos. 325B-326] -----

- (c) Aluminum plant—construction plans (consisting of 2 envelopes).

----- [USB-13 Roll No. 326] -----

- (3) Sumitomo Copper Refining Company:
  - (a) Special damage assessment report.
  - (b) Prints and negatives.

*h.* Preliminary draft report on "Effects of 10,000-pound Bombs on Japanese Targets."

----- [USB-13 Roll No. 326A] -----

92. Effects of the Atomic Bomb on Hiroshima, Japan (final report and original draft).

- a.* Preliminary atomic bomb report.
- b.* Outline history of Hiroshima City.
- c.* Summary report—work sheets.
- d.* The target report—work sheets.
- e.* High-explosive bomb attacks on Hiroshima:
  - (1) Preliminary report—draft.
  - (2) Bomb plots.
  - \* (3) Damage plot.

----- [USB-13 Roll No. 327] -----

- f.* The atomic-bomb attack:
  - (1) Reports, notes, and work sheets:
    - (a) Object of study.
    - (b) Probable effects on other targets.

- \**(c)* Report by the Governor Hiroshima prefecture—translation.
- (d)* Description of the atomic-bomb attack.
- (e)* Determination of zero points.
- \**(f)* General investigation of Kure naval district.
- (g)* Its power, effects, and limitations.
- (h)* Preliminary analysis.
- (i)* Report by British mission.
- (j)* The atomic bombings of Hiroshima and Nagasaki—translation.
- (k)* The effects of the atomic bombings of Hiroshima and Nagasaki.
- (2)* Atomic bomb plot.
- (3)* Urban damage assessment plot.
- (4)* Limited damage interpretation.
- g.* Graphs on air zero and ground zero.
- h.* Typical Japanese dwellings:
  - (1)* Report.
  - (2)* Negatives.
- i.* Fire—cause and extent:
  - (1)* Work sheets.
  - (2)* Field notes.
  - (3)* Fire damage plots.
- j.* Damage to buildings (summary draft):
  - (1)* Fire data:
    - (a)* Building data compiled in connection with fire insurance.
    - (b)* Vulnerability classifications.
    - (c)* Noncombustible building data.
    - (d)* Built-upness and fire protection plot.
  - (2)* Structural damage data:
    - (a)* Structural damage by blast—graphs (see 93 b (3)).
    - (b)* Calculation of structural damage.
    - (c)* Mean area of effectiveness for buildings.
  - (3)* Master grid and building location map.
  - (4)* Building identification sheets:
    - (a)* Buildings No. 1 to 30.
    - (b)* Buildings No. 31 to 60.
    - (c)* Buildings No. 61 to 90
    - (d)* Buildings No. 91 to 131.



(5) Building plans.

----- [USB-13 Roll No. 327A] -----

*k.* Damage to machine tools:

- (1) Work sheets.
- (2) Damage data.
- (3) Cause and extent of damage-graphic summary.
- (4) In relation to building damage.
- (5) Percent of damage on Hiroshima and Nagasaki plant utilities—graphs (see 93 d (4)).

*l.* Damage to bridges :

- (1) Draft report.
- (2) Field notes.
- (3) Bridge location maps.
- (4) A brief description of bridges.
- (5) Statistical end damage data.
- (6) Summary of statistics.
- (7) Bridge study.

*m.* Damage to service and utilities:

- (1) Electric railway and bus system:
  - (a) Work sheets.
  - (b) Route plan.
- (2) Government railroad system:
  - (a) Work sheets.
  - \* (b) Report by Hiroshima railway division office—translation.
- (3) Electric generating and distribution system:
  - (a) Work sheets.
  - \* (b) Line distribution maps.
  - (c) Pole data.

----- [USB-13 Roll No. 328] -----

- (4) Telephone communication system:
  - (a) Work sheets.
  - \* (b) Lay-out.
- (5) Water supply system :
  - (a) Work sheets.
  - \* (b) Lay-outs.
  - \* (c) Microfilm plans.

- (6) Sanitary and storm sewer system:
  - (a) Work sheets.
  - (b) Lay-out.
- (7) Domestic gas system:
  - (a) Work sheets.
  - (b) Lay-out.
  - \* (c) Station gas regulator—drawing.
  - \* (d) Hiroshima Gas; Company layout.

*n.* Damage to stacks:

- (1) Work sheets.
- (2) Lay-out.

----- [USB-13 Roll No. 328-328A] -----

*o.* Photographic interpretation damage.

----- [USB-13 Roll No. 328] -----

*p.* The Japan Steel Works, Ltd—Hiroshima:

- (1) Preliminary report—draft.
- (2) Field notes.
- (3) Plant lay-out.
- (4) Functional analysis check.
- (5) Building construction analysis.

*q.* Maps:

- (1) Approximate location of Hiroshima on Japan proper.
- \* (2) Hiroshima City.
- (3) Hiroshima City.
- \* (4) Hiroshima and vicinity.
- (5) Areas photographed.
- (6) Important military areas.
- (7) Major industrial areas.
- (8) Rivers and harbor areas.
- (9) Topographic sketch map.
- (10) School, hospitals and government offices—plot.
- (11) Transportation and communications—plot.
- (12) Rubber model of Hiroshima City.
- (13) Locations from which the flash burns and blistered tiles were taken—see 93 a  
(2) (d).

----- [Missing] -----

- r. Specimen of melted concrete.
- s. Specimen of heat-tested tile.
- t. Negative—Photo log:
  - (1) Negatives No. 1-225:
  - (2) Negatives No. 226-455.
  - (3) Negatives No. 456-792.
  - (4) Negatives No. 793-1,125.
  - (5) Miscellaneous.

----- [USB-13 Roll Nos. 328A, 329, 329A] -----

- u. Preliminary draft report on "Effects of Atomic Bomb on Hiroshima" (three volumes).

----- [USB-13 Roll No. 330] -----

93. Effects of the Atomic Bomb on Nagasaki, Japan (final report and original draft).

- a. Summary, General and Miscellaneous information:
  - (1) Notes and work sheets:
    - (a) Work sheets.
    - (b) Preliminary report—draft.
    - (c) Synopsis report of the air-raid disaster at Nagasaki.
    - (d) The atomic bombings of Hiroshima and Nagasaki—see 92 f (1) (j).
  - (2) Maps:
    - (a) Approximate location of Nagasaki on Japan proper.
    - \* (b) Hiroshima City.
    - (c) City plans—revised edition.
    - (d) Locations from which the flash burns and blistered tiles were taken.
  - (3) Damage plots.
  - (4) Miscellaneous information:
    - (a) Photographs of Nagasaki.
    - (b) Report from governor of Nagasaki—translation.
    - (c) Limited damage interpretation.

----- [USB-13 Roll No. 331] -----

- b. Public buildings:
  - (1) Work sheets.
  - (2) Preliminary report—draft.
  - (3) Structural damage by blast—graphs.
- c. Industrial installations:
  - (1) Work sheets.

- (2) Preliminary draft.
  - d. Effect of atomic bomb on public utilities:
    - (1) Work sheets.
    - (2) Preliminary report—draft.
    - (3) Summary of public utility damage.
    - (4) Lay-outs of public utilities:
      - (a) Location of under-water telegram station.
      - \* (b) Water supply system.
      - (c) Water supply system.
  - e. Effects of atomic bomb on machinery equipment and plant utilities:
    - (1) Work sheets.
    - (2) Preliminary report—draft.
    - (3) Graphs.
    - (4) Percent of damage on Hiroshima and Nagasaki plant utilities—graphs.
  - f. Effects of atomic bomb on bridges and transportation systems:
    - (1) Work sheets.
    - (2) Preliminary report—draft.
  - g. Fire study:
    - (1) Notes and work sheets.
    - (2) Preliminary report—draft.
    - (3) Fire break plan—map.
- [USB-13 Roll No. 332] -----
- h. Translation of official and industrial Japanese documents on effects of the atomic bomb:
    - (1) Work sheets.
    - (2) Preliminary report—draft.
- [USB-13 Roll Nos. 332-333] -----
- i. Preliminary draft report on "Effects of the Atomic Bomb on Nagasaki, Japan."
- [USB-13 Roll Nos. 333-334] -----
94. Effects of the Four Thousand-Pound Bomb on Japanese Targets—A Report on Five incidents (final report and original draft).
- [USB-13 Roll No. 334] -----
- a. Kawasaki Aircraft Company—Akashi:
    - (1) Notes and work sheets:
      - (a) Report on damage assessment.
      - (b) Report on bombing mission No. 20-19 June 1943.

- (c) Interrogation of company's architecture.
- (d) Miscellaneous notes on air raids.
- (e) Location of company's plants and personnel.
- (f) Summary report—draft.
- (g) Field notes.

----- [USB-13 Roll No. 335] -----

- (2) Location and lay-out:
  - (a) Reconnaissance photographs.
  - (b) General lay-out.
- (3) Building data:
  - (a) Names and description of buildings.
  - (b) Plot plans of buildings.
  - \* (c) Construction plans (consisting of two envelopes).
- (4) Bomb and damage data.
- b.* Sumitomo Light Metal Company—Osaka:
  - (1) Notes and work sheets.
  - (2) Plant lay-outs.
  - \* (3) Bomb plots.
  - \* (4) Buildings and damage data.
  - \* (5) Machine damage data.
  - (6) Photographs.
- c.* Aichi-Atsuta engine plant-Aichi Aircraft Company—Nagoya:
  - (1) Aichi Aircraft Company:
    - \* (a) Over-all report of company's plants.
    - \* (b) Plant dispersal program.
  - (2) Aichi-Atsuta engine plant:
    - (a) Notes and work sheets.
    - (b) Industrial report No. 9.
    - (c) Plant lay-out.
    - (d) Utility lay-outs.
    - (e) Building construction plans.
    - (f) Bomb data.
    - (g) Damage data.
    - (h) Photographs.

----- [USB-13 Roll Nos. 335-335A] -----

- d.* Second Naval fuel depot—Yokkaichi:

- (1) Notes and work sheets.

----- [USB-13 Roll No. 335A] -----

- (2) Plant lay-outs.
- (3) Harbor plan.
- (4) Utility lay-outs:
  - (a) High tension lines.
  - (b) Steam pipe lines.
  - (c) Railroad tracks.
  - (d) Water supply system with a report.
- (5) Building plans, elevations, and sections.
- (6) Antiaircraft installations plot.
- (7) Bomb plots.
- (8) Weapon analysis data.
- (9) Damage plot.
- (10) Photographs.

*e.* Aichi Aircraft Company—Nagoya:

- (1) Funakata plant.:
  - (a) Plant lay-out.
  - (b) Building construction plans.
  - (c) Area of combustible occupancy plot.
  - (d) Damage data.
  - (e) Negatives and log sheet.
- (2) Aichi Clock and Electric Company, Ltd.:
  - (a) Notes and work sheet.
  - (b) Plant lay-out.
  - (c) Construction plans.
  - (d) Bomb plots.
  - (e) Damage data.

----- [USB-13 Roll No. 336] -----

- f.* Preliminary draft report on "Effects of the 4,000-Pound Bomb on Japanese Targets."

----- [USB-13 Roll No. 336A] -----

95. Effects of Two Thousand-, One Thousand-, and Five Hundred-Pound Bombs on Japanese Targets—A Report on Eight Incidents (final report and original draft).

*a.* Aichi-Eitoku Aircraft Company—Nagoya:

- (1) Notes and work sheets.

- (2) Plant lay-out.
- (3) Production flow chart.
- (4) Utility lay-outs.

----- [USB-13 Roll No. 337] -----

- (5) Building data:
  - (a) Buildings dismantled to prevent spreading of fire.
  - (b) Construction plans.
- \* (6) Bomb plots (part Japanese).
- (7) Damage data:
  - \* (a) Plant damage plot (part Japanese).
  - (b) Machine damage plot.
  - (c) Plant description and damage data.
  - (d) Damage assessment sheet.
  - (e) Weapon analysis.
  - (f) Prints and negatives.

*b.* Mitsubishi Heavy Industries, Ltd.—Shizuoka:

- (1) Notes and work sheets.
- (2) Plant lay-outs.
- \* (3) Shop plans.
- (4) Bomb plots.
- (5) Damage plot.
- (6) Prints and negatives.

*c.* Nakajima-Musashi aircraft works—Tokyo:

- (1) Preliminary report—draft.
- (2) Plant lay-outs.
- (3) Building plans:
  - (a) Building No. 11.
  - (b) Building No. 27.
  - (c) Building No. 35.
- (4) Bomb plot.
- (5) Damage plots.
- (6) Prints and negatives.

*d.* Kawanishi Aircraft Company, Ltd.—Takarazuka:

----- [USB-13 Roll Nos. 337-337A] -----

- (1) Notes and work sheets.

----- [USB-13 Roll No. 337A] -----

- (2) Plant lay-out.
  - (3) Building data:
    - \* (a) Erection plans—steel details.
    - (b) Building data.
  - (4) Bomb plot.
  - (5) Damage plots.
  - (6) Photographs.
- e.* Kawanishi Aircraft Company—Naruo:
- (1) Preliminary reports.
  - \* (2) Plant lay-out (part Japanese).
  - (3) Sample construction plans.
  - (4) Bomb plots.
  - (5) Damage data.
- f.* Osaka Army Arsenal—Osaka.
- (1) Notes and work sheets.
  - (2) Plant lay-out.
  - (3) Organization and location of factories and warehouses.

----- [USB-13 Roll No. 337B] -----

- (4) Bomb plots.
  - (5) Damage data:
    - (a) Buildings and damage data.
    - (b) Final damage assessment plot.
    - (c) Machine tool damage.
  - (6) Prints and negatives.
- g.* Kawanishi Aircraft Company—Konan plant—Kobe:
- (1) Factory lay-out.
  - \* (2) Graph on distribution of structural damage per bomb.
  - (3) Bomb notes and data.
  - (4) Prints and negatives.

----- [USB-13 Roll No. 338] -----

- h.* Sumitomo Metal Company—Nagoya:
- \* (1) Plant lay-out.
  - \* (2) Construction plans.
  - (3) Bomb and damage data:
    - (a) Bomb and damage data with photographs.
    - (b) Bomb and damage plot.



- (c) Damage assessment work sheets.
  - \*(d) Report on the effects of the 26 June 1945, attack on structures.
  - (e) Fire damage.
  - i. Preliminary Draft Report on "Effects of Two Thousand-, One Thousand and Five Hundred-Pound Bombs on Japanese Targets."
- [USB-13 Roll Nos. 338-338A] -----
96. A Report on Physical Damage in Japan—Summary Report (final report and original draft).
- [USB-13 Roll No. 338A] -----
- a. Maps.
  - b. Effectiveness of high explosive bombs:
    - (1) Determination of effectiveness of HE bombs—Notes and work sheets.
    - (2) Preliminary draft on relative effectiveness of HE bombs.
    - (3) Graphs:
      - (a) Influence of time over target on extent of damage.
      - (b) Damage weight index of multiple and single aiming point attacks.
      - (c) Effect of variation in altitude on extent of damage.
      - (d) Influence of altitude of attack on the extent of damage.
      - (e) Influence of rate of bomb delivery on extent of damage.
      - (f) Influence of bomb tonnage per aiming point on extent of damage.
      - (g) Influence of target size on extent of damage.
      - (h) Effect of heavy explosive on the extent of damage.
      - (i) Area of damage per bomb.
      - (j) Influence of type of incendiary bomb on extent of damage.
    - (4) Methods of estimating the mean area of effectiveness of HE weapons against building, machine tools, and similar targets.
    - (5) Heavy explosive damage data and calculated mean area of effectiveness values for 20 industrial targets in Japan.
    - (6) Ministry of Home Security Reports:
      - (a) Density of bombing of industrial targets.
      - (b) Target vulnerability notes.
    - (7) Mean area of computation for 1,000-lb bombs.
    - (8) Methods of computation of MAEs for various weapons.
    - (9) Statistical attack data:
      - (a) Bombs dropped on major cities in Japan.
      - (b) Major attacks on Japanese cities.

- (10) Damage assessment evaluation.
- (11) Weapon analysis report.
- (12) Bomb density for effective destruction of productive capacity of targets.

*c.* Fire Against Japan:

- (1) Fire damage summary report.
- (2) Incendiary bomb report.
- (3) Report on bombing accuracy of night incendiary missions.
- (4) Statistical data on targets and weapons.
- (5) Probability of fire-spread—graphs.
- (6) Percent of exposed occupancy zone that burned.
- (7) Damage plots.

----- [USB-13 Roll Nos. 338A-339] -----

*d.* Miscellaneous photographs (consisting of 5 envelopes).

----- [USB-13 Roll No. 339] -----

*e.* Preliminary draft report on "A Report on Physical Damage in Japan—Summary Report."

----- [USB-13 Roll Nos. 339-339A] -----

97. Japanese Military and Naval Intelligence.

*a.* Final report.

----- [USB-13 Roll No. 340] -----

98. Evaluation of Photographic Intelligence in the Japanese Homeland, Part I, Comprehensive Report.

- a.* Final report.
- b.* Dummy copies of final report.
- c.* Report of outlines, forms, and procedures used for photo—intelligence reports.
- d.* Master target list and miscellaneous target information.
- e.* Field notes.
- f.* Team log sheets of photographs.
- g.* Photographic coverage for over-all report.
- h.* Registration of Japanese documents.

99. Evaluation of Photographic Intelligence in the Japanese Homeland, Part II, Airfields.

- a.* Final report.
- b.* Dummy copies of final report.
- c.* Airfields and seaplane bases.
  - (1) Chofu.

- (2) Edogawa.
- (3) Hanshin.
- (4) Irumagawa.
- (5) Kagamigahara.
- (6) Kasumigaura.
- (7) Kiyosu.
- (8) Komaki.
- (9) Kowa.
- (10) Matsudo.
- (11) Meiji.
- (12) Mikatagahara.

-----[USB-13 Roll No. 341]-----

- (13) Mito.
- (14) Mito, south.
- (15) Mitsubishi.
- (16) Muroran.
- (17) Nagoya.
- (18) Nagoya, east.
- (19) Nishinomiya.
- (20) Oi.
- (21) Osawa.
- (22) Otawa.
- (23) Palace.
- (24) Sarato.
- (25) Shimazu.
- (26) Showa.
- (27) Suzuka.
- (28) Tachikawa.
- (29) Takahagi.
- (30) Tokorozawa.
- (31) Tomioka.
- (32) Toyohashi.
- (33) Yaizu.
- (34) Yamagatanito[sic]
- (35) Yatabe.
- (36) Yokosuka.

- (37) Yomiuri.
100. Evaluation of Photographic Intelligence in the Japanese Homeland, Part III, Computed Bomb Plotting.
- a. Final report.
  - b. Dummy copy of final report.
  - c. Original bomb plots, base for bomb plots, and original computed strips.
101. Evaluation of Photographic Intelligence in the Japanese Homeland, Part IV, Urban Area Analysis.
- a. Final report.
  - b. Dummy copy of final report.
  - c. Area data and photographic cover:
    - (1) Hino-Hachioji.
    - (2) Hisamoto.
    - (3) Totsuka.
    - (4) Miscellaneous.
102. Evaluation of Photographic Intelligence in the Japanese Homeland, Part V, Camouflage.
- a. Final report.
  - b. Dummy copies of final report.
  - c. Miscellaneous data and photographs.
103. Evaluation of Photographic Intelligence in the Japanese Homeland, Part VI, Shipping.
- a. Final report.
  - b. Dummy copies of final report.
  - c. Damage assessment work sheets ; yard plans; charts.
  - d. Ishkawajima dockyard, No. 1.
  - e. Ishikawajima Shipbuilding Company, yard ) No. 4.
  - f. Susaki dockyard of the Ishikawajima Shipbuilding and Engineering Company.
104. Evaluation of Photographic Intelligence in the Japanese Homeland, Part VII, Electronics.
- a. Final report.
  - b. Dummy copies of final report.
  - c. Fire control and search radar.
  - d. Radio stations:
    - (1) Dispersed station of the Telecommunications Company (south of Hachioji).
    - (2) Japan communications commission, Hakodate area (Esan).

- (3) Radio station in fishing village east of Kamaishi.
  - e.* Electric companies:
    - (1) Anaritsu[sic] Electric Company.
    - (2) Electric Instrument Company.
    - (3) Japan Wireless Company.
    - (4) Mitsubishi Electric Manufacturing Company.
    - (5) Nippon Electric Company.
    - (6) Tokyo Shibaura Electric Company.
  - f.* Electronics installation in Kobe-Osaka area and in Tokorozawa.
  - g.* Submarine hydro-phone detection unit (Hakodate area).
  - h.* Fire control center.
105. Evaluation of Photographic Intelligence in the Japanese Homeland, Part VIII, Beach Intelligence.
- a.* Final report.
  - b.* Dummy copies of final report.
106. Evaluation of Photographic Intelligence in the Japanese Homeland, Part IX, Artillery.
- a.* Final report.
  - b.* Dummy copies of final report.
- [USB-13 Roll No. 341A] -----
- c.* Command post.
  - d.* Observation post.
  - e.* Defenses of Hakodate.
  - f.* Defense of Muroran.
  - g.* Antiaircraft defenses of Tokai Army; Nagoya City and vicinity.
  - h.* Antiaircraft defenses north of Nagoya castle.
  - i.* Search light companies.
  - j.* Antiaircraft batteries.
  - k.* Automatic weapons battery.
  - l.* Coast defense guns.
  - m.* Empty gun positions.
- [USB-13 Roll No. 342] -----
- n.* Maps (consisting of 2 envelopes).
107. Evaluation of Photographic Intelligence in the Japanese Homeland, Part X, Roads and Railroads.
- a.* Final report.

- b.* Dummy copies of final report.
  - c.* Report of the investigation of damage to Komaru bridge; with chart. [小丸川]
  - d.* General articles of national highway bridges and prefectural road bridges; also maps.
108. Evaluation of photographic intelligence in the Japanese homeland, part XI, Industrial analysis.
- a.* Final report.
  - b.* Dummy copy of final report.
  - c.* Aircraft manufacturers:
    - [USB-13 Roll Nos. 342-343]-----
    - (1) Aichi (consisting of two envelopes).
    - [USB-13 Roll No. 343]-----
    - (2) Central Aeronautical Research Institute.
    - (3) Hitachi.
    - (4) Ishikawajima.
    - (5) Japan Aircraft Company.
    - (6) Japanese International.
    - (7) Kawanishi.
    - (8) Kawasaki.
    - (9) Mitsubishi.
    - (10) Nakajima (consisting of five envelopes).
    - [USB-13 Roll No. 343A] -----
    - (11) Sumitomo.
    - (12) Tachikawa.
    - (13) Miscellaneous.
  - d.* Army arsenals; depots; laboratories; explosives plants and Navy arsenals; fuel depots; navy yards; ordnance plants:
    - (1) Army arsenal and military gunpowder works.
    - (2) Hiro Arsenal.
    - (3) Nagoya arsenals (consisting of three envelopes).
    - (4) Oji Arsenal.
    - (5) Sagami Arsenal.
    - (6) Tachikawa Arsenal.
    - (7) Tokyo Second Arsenal.
    - (8) Army central clothing depot.
    - (9) Ninth Army military laboratory.

- (10) Military gunpowder works.
- (11) Nippon explosives works.
- (12) Uji powder factory.
- (13) First Naval Air Arsenal.
- (14) Hiratsuka Naval Arsenal.
- (15) Kure Naval Arsenal (consisting of 2 envelopes).
- (16) Second Naval Arsenal.
- (17) Suzuka Naval Arsenal.
- (18) Toyokawa Naval arsenal.

----- [USB-13 Roll No. 344] -----

- (19) Yokosuka Naval Arsenal.
- (20) First Naval fuel depot.
- (21) Second Naval fuel depot.
- (22) Kure Naval shipyard.
- (23) Yokosuka Navy yard.
- (24) Aichi ordnance plant.
- (25) Air technical depot.
- (26) Ordnance storehouse and supply depot.
- (27) Miscellaneous arms and ordnance manufacturers and shipyards.

*e.* Automotive and rolling stock companies :

- (1) Diesel Automotive Company.
- (2) Toyoda auto works.
- (3) Nippon Vehicle Manufacturing Company.
- (4) Nippon Rolling Stock Company.

*f.* Iron and steel manufacturers:

- (1) Daido Electric Steel Company.
- (2) Ishihara smelter and refiner.
- (3) Japan iron works.
- (4) Japan Steel Company.
- (5) Japan Steel Bearing Company.
- (6) Japan steel works.
- (7) Kanto special steel works.
- (8) Kawasaki iron and steel works.
- (9) Nihon steel works.
- (10) Osaka iron works.
- (11) Sumitomo Metals works.

- (12) Wanishi iron works.
- (13) Miscellaneous iron and steel manufacturers.

*g.* Miscellaneous industries:

- (1) Chemical industry (unidentified).
- (2) Hitachi engineering works.
- (3) Hodogaya Chemical Industry Company.
- (4) Japan Military Foods Company.
- (5) Japan Optical and Lens Company.
- (6) Machine shop.
- (7) Nihon Hikoki Kaisha, Ltd.
- (8) Nippon oil refinery and tank farm.
- (9) Nippon Soda.
- (10) Nitokogyo Kabushiki Kaisha.
- (11) Shown Fertilizer Company.

### **SECTION 3. EUROPEAN INTELLIGENCE LIBRARY**

(Omitted)