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**AIR TARGET INTELLIGENCE
JAPANESE WAR**

INDEX

VOLUME 1

57,000 - 1944-49

JOINT TARGET GROUP

WASHINGTON, D. C.

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**JOINT TARGET GROUP
WASHINGTON, D. C.**

ADDENDA CHECK LIST

ADDENDUM No.	INSERTED		ADDENDUM No.	INSERTED		ADDENDUM No.	INSERTED		ADDENDUM No.	INSERTED	
	By	Date		By	Date		By	Date		By	Date
1			26			51			76		
2			27			52			77		
3	Included in Binders		28			53			78		
4			29			54			79		
5			30			55			80		
6			31			56			81		
7			32			57			82		
8			33			58			83		
9		34			59			84			
10		35			60			85			
11		36			61			86			
12	New Binders Issued Complete		37			62			87		
13			38			63			88		
14			39			64			89		
15			40			65			90		
16			41			66			91		
17			42			67			92		
18			43			68			93		
19			44			69			94		
20			45			70			95		
21			46			71			96		
22			47			72			97		
23			48			73			98		
24			49			74			99		
25			50			75			100		

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 By Authority of
 The Commanding General
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 15 July 1945 *CFZ*
 (Date) (Initials)

GENERAL NOTE

AIR TARGET INTELLIGENCE JAPANESE WAR INDEX

THIS IS INTELLIGENCE MATERIAL OF A GENERAL REFERENCE CHARACTER

MATERIAL consists of:

1. Index of air targets.
 - (a) Numerical listing by target number and objective area.
 - (b) Alphabetical cross reference.
 - (c) New target numbers.
2. Memoranda.
 - (a) General memoranda.
 - (b) Weapons memoranda.

FILING

Joint Target Group material as issued in addendum envelopes shall be filed in this binder in numerical sequence in accordance with "file numbers" appearing in lower right hand corner of each page. File numbers assigned to this "Index" are 50,000. through 99,999.99. In order to permit indefinite expansion and complete flexibility decimals will be used as required. When two pages bear identical file numbers the page with most recent date will replace that with earlier date.

EXPANSION

One volume of "Index" is issued initially to accommodate the text. If required by expanding bulk of material an additional volume will be issued. Binder holders should then move a convenient amount of ma-

terial from rear of Volume 1 to Volume 2. Any binder volumes which make up "Index" will form one filing receptacle for receipt of consecutively numbered pages by file numbers throughout the set of volumes.

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Individual sheets are classified as indicated and may be used accordingly. Classification of the folder as a whole is stamped on the cover. Such classification refers to the data in assembled form.

DISPOSAL

When material has served its purpose it shall be destroyed in accordance with appropriate military or naval regulations.

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Current distribution is shown immediately following this page. Any queries or requests should be addressed to:

Joint Target Group
AC/AS, Intelligence, Hq, Army Air Forces
Washington 25, D. C.

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AIR TARGET INTELLIGENCE - JAPANESE WAR

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CG, XXI Bomb Comd. (thru AAFPOA)		
CG, Seventh Air Force (thru AAFPOA)		
CG, Far East Air Force.....	5	128-132
CG, Fifth Air Force (thru FEAF).....	6	133-138
CG, Thirteenth Air Force (thru FEAF).....	3	139-141
CG, Eastern Air Command.....	2	142-143
CG, Tenth Air Force (thru EAC).....	1	144
CG, Eleventh Air Force.....	1	145
CG, Fourteenth Air Force.....	6	146-151
CG, Continental Air Forces.....	1	152
CG, Second Air Force.....	35	153-187
CG, Third Air Force.....	15	188-202
CG, Fourth Air Force.....	5	203-207
CG, Sixth Air Force.....	1	208
HQ, SHAEF.....	1	209
CG, USSTAF.....	1	210
CG, Eighth Air Force.....	6	211-216
CG, Fifteenth Air Force.....	7	217-223
CG, AAF Center, Orlando.....	5	224-228
AC/AS, Intelligence, Joint Target Group.....	15	229-243
CO, Lead Crew School, Muroc, Calif.....	1	244
—WAR DEPARTMENT DISTRIBUTION—		
MIS, Washington, D. C.....	5	245-249
U. S. Strategic Bombing Survey.....	2	250-251
Chief of Ordnance, Research & Devel. Service...1		252
Chief of Ordnance, Ballistics Research Lab.....1		253
Aberdeen		
Chief, Chemical Warfare Service		
War Plans Branch.....	1	254
Training Division.....	1	255
CO, Tracy, Calif.....	1	256
CO, PACMIRS, Camp Ritchie, Md.....	1	257
Command and General Staff School.....	1	602

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CG, USF, China Theater.....	1	269
CG, USAFPOA.....	1	270
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British Pacific Fleet (thru USN).....	25	446-470
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Joint Chiefs of Staff, Sec. Joint War Plans.....1		471
Committee		
Joint Intelligence Study Publishing Board.....	1	472
Department of State (thru Service Liaison Officer).....1		473
O.S.S. (thru Service Liaison Officer).....	15	474-488
F.E.A. (thru Service Liaison Officer).....	4	489-492
O.S.R.D. (thru Service Liaison Officer).....	3	493-495
ATIS.....	2	496-497
ADVATIS.....	1	498
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R.A.F. VLR.....	25	529-553
SACSEA (India).....	5	554-558
C.I.O.—ACSEA (India).....	1	559
SEATIC.....	1	560
British Navy		
British Naval Staff, NID 18.....	5	561-565
British Pacific Fleet (thru USN).....	25	
British East Indies Fleet (thru BAD).....	24	566-589
SIO RAAF Comd., Brisbane (thru RAAF,.....)	10	590-599
Washington)		
—NETHERLANDS DISTRIBUTION—		
Naval Representative to the combined Chiefs of Staff		600

INDEX OF AIR TARGETS

JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX—JAPANESE WAR
 NUMERICAL TARGET INDEX

SHEET **ATI**
 DATE **20 June 1945**

INDEX OF AIR TARGETS

PREFACE

GENERAL

The index is intended as a basic reference to air targets in the Japanese War. It is axiomatic that any such index should be used with relation to new available intelligence.

PLAN

The targets listed in the index are arranged numerically by objective areas. For example, all targets in objective area 90:9—Niigata, Japan, are listed together in consecutive numerical order, followed by all targets in objective area 90:10—Fukushima, Japan, listed similarly and so on. The numerical list is supplemented by an alphabetical cross reference (following the numerical list) in which the target names appear opposite their corresponding target numbers.

EMPHASIS

Targets printed in bold face type are those which Joint Target Group considers of sufficient importance to warrant preparation thereon of standard target material. Targets printed in light face type are those considered to be tertiary or minor targets. **Bold facing does not necessarily identify a target as one which should be attacked**, that decision being dependent on current estimates and intelligence.

AIRFIELDS

Airfields included in the index are those which are known to have facilities for major overhaul and repair or assembly of aircraft. The list is not, therefore, a comprehensive list of enemy landing strips or fields.

PORTS

Port area targets are classed as *major* or *minor* targets largely on the basis of the tonnage capacity of the port facilities. Their classification as major or minor generally ignores the degree of shipping activity, it being subject to rapid change.

GENERAL COMMENT

Additional information on the columns in the index list follows:

TARGET NUMBER AND OBJECTIVE AREA

Target numbers indicate country and objective area, in accordance with the system now in use in the field. Since that system is not a decimal system, a colon (:) has been substituted for the point (.) previously used after the first two digits of the target number. Thus, 90.17-188 now appears as 90:17-188.

NAME

The name by which the target is generally known and referred to is printed first. Port Area targets in China, Korea, Manchuria, Thailand and Japanese Pacific Islands carry place name variants in brackets below the varied name. The alphabetical cross reference indexes port area targets by variants as well as by the standard names. Port Areas, being primarily naval targets, are carried in the numerical index under names which will coincide with material published by Naval intelligence sources. Thus, Port Area targets in Korea are named according to the McCune-Reischauer system of transliteration; those in China are listed in accordance with the Wade-Giles system; those in Manchuria, Thailand and in the Japanese

Pacific Islands have names selected by the Board on Geographical Names, Department of the Interior. Other targets are carried under the older Japanese name versions.

LOCATION

This column is intended as an aid to location of targets on field photographs or other briefing material. The locations given are necessarily approximate, particularly in cases where photo cover is not available. Place name variants follow the varied name, in parentheses.

COORDINATES

These are supplementary to the preceding column (Location). They are necessarily approximate in cases where photo cover is not available; coordinates are given to the nearest minute of latitude and longitude only.

GENERAL CATEGORY

The abbreviations in this column indicate the broader economic category or categories into which the target falls, as determined by its products or function. These categories are keyed to the Joint Target Group Current Air Estimate, which furnishes a detailed explanation of their significance. For convenience, a key to the general category abbreviations is printed at the foot of each page of the index, as follows:

BEI —Basic Equipment Industries
 BPI —Basic Processing Industries
 BSU—Basic Services and Utilities
 EPI —End Product Industries
 MIC—Mixed Industrial Concentrations
 MS —Military Stores

PARTICULAR CATEGORY

The abbreviations in this column indicate the particular category or categories (within the above general categories), into which the target falls, as determined by its products or function. For convenience, a key to the particular category abbreviations is printed at the foot of each page of the index, as follows:

A —Armament
 AC —Aircraft
 C —Chemicals
 CIS —Coke, Iron & Steel
 EP —Electric Power
 LM —Light Manufacturing
 MMT —Machinery & Machine
 Tools
 M —Munitions
 NFM —Non-ferrous Metals
 P —Petroleum
 RRT —Road & Rail Transportation
 S —Shipping
 TE —Transportation Equipment
 UIC —Urban Industrial
 Concentrations.

COMMENT

A brief summation of the known products or function of the target.

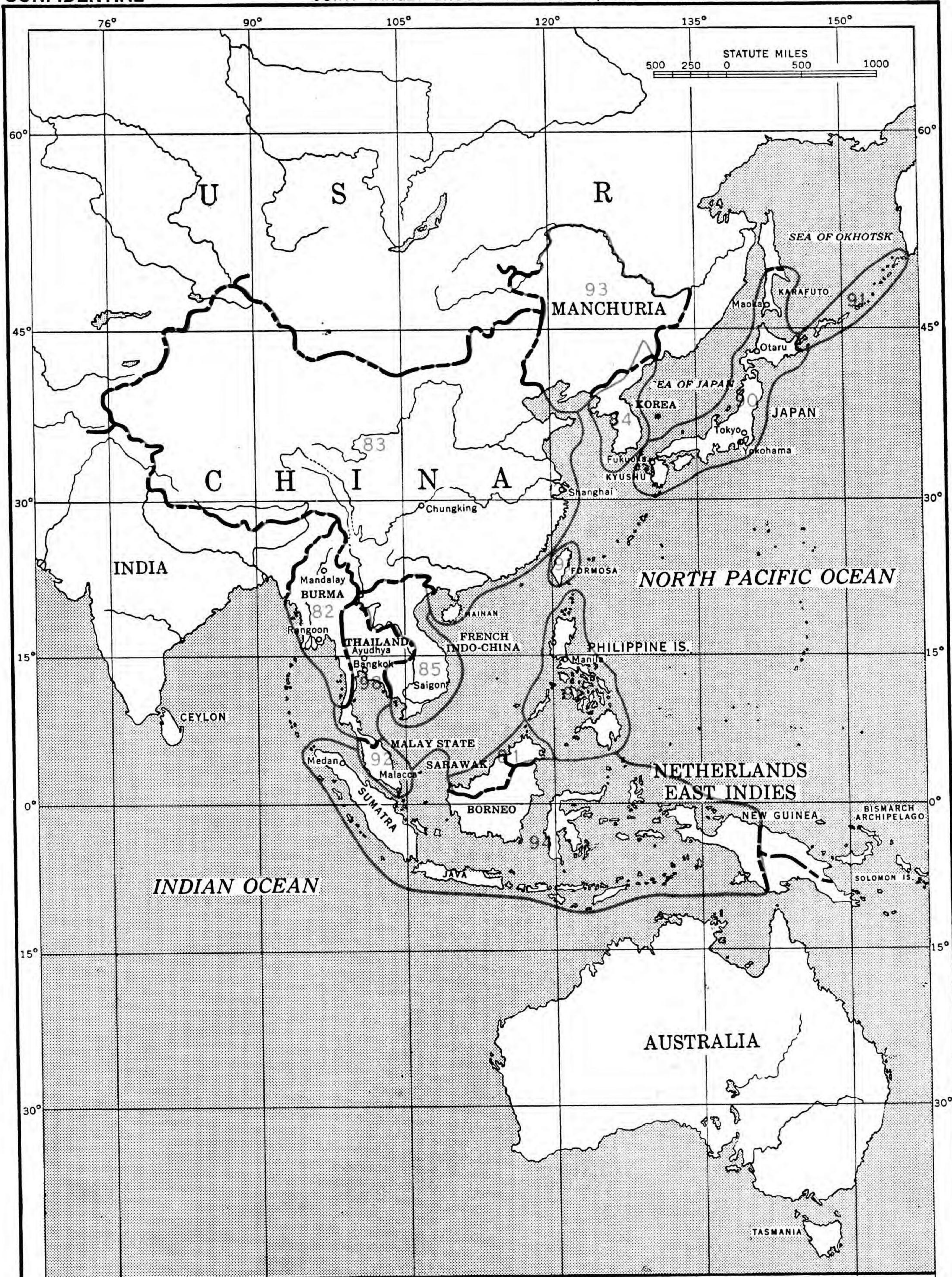
REVISIONS AND ADDITIONS

The index will be revised from time to time. New target number sheets will also be issued as new numbers are assigned. Progressive revisions will include any new target numbers previously assigned.

OBJECTIVE AREA-FAR EAST
JOINT TARGET GROUP WASHINGTON, D.C.

CONFIDENTIAL

NUMERICAL TARGET INDEX



AREA NO.	COUNTRY	AREA NO.	COUNTRY
81	BORNEO NORTH	91	JAPANESE PACIFIC ISLANDS
82	BURMA	92	MALAY STATES
83	CHINA	93	MANCHURIA
84	KOREA	94	NETHERLANDS EAST INDIES
85	INDO-CHINA	96	PHILIPPINES
90	JAPAN	98	THAILAND

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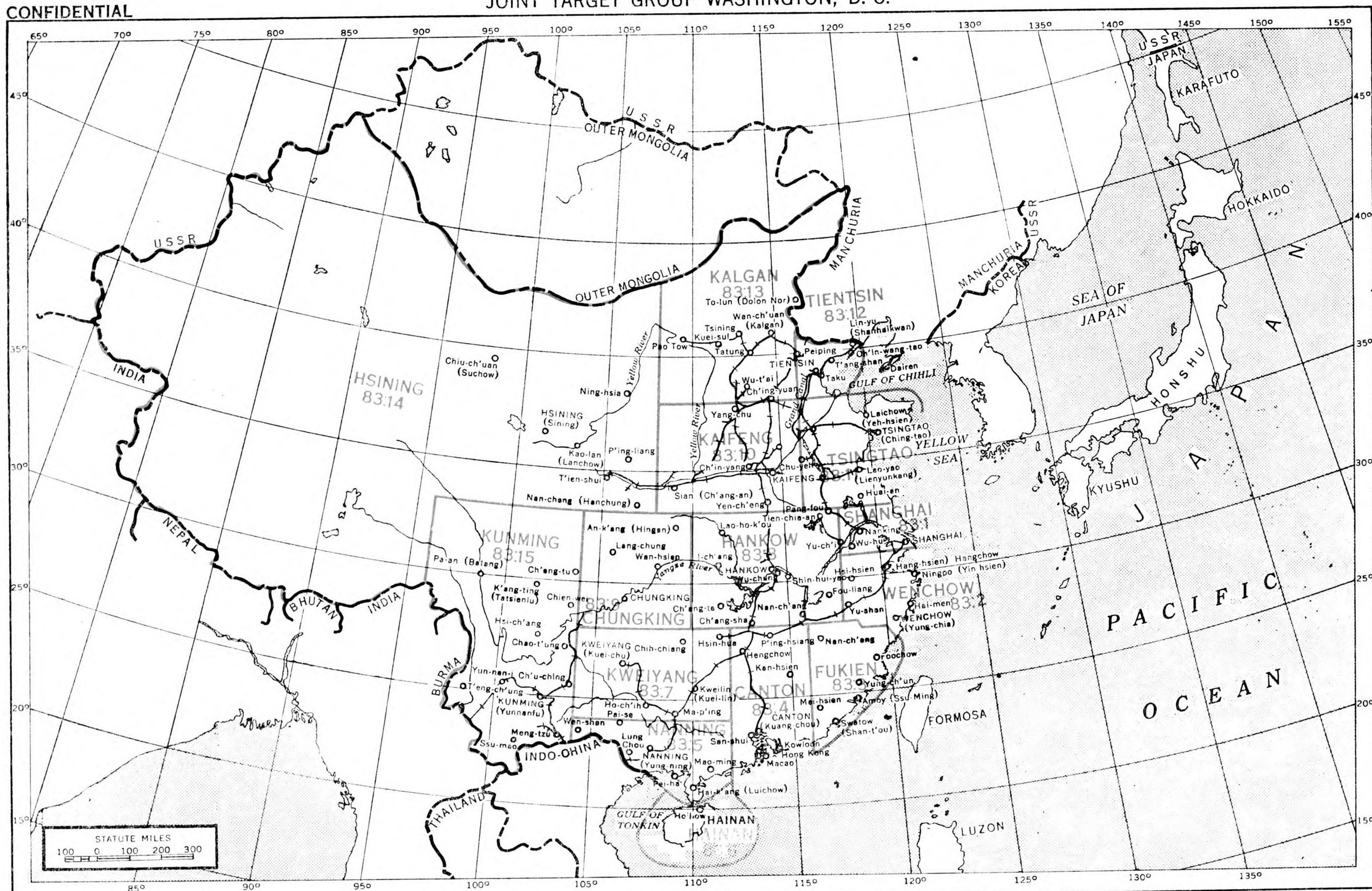
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83 CHINA

File No. 51,200

JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX—JAPANESE WAR
 NUMERICAL TARGET INDEX

SHEETATI
 DATE....20 June 1945

OBJECTIVE AREA 83:1—SHANGHAI (CHINA)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
83:1-99 Shanghai, (China)	Pukow RR Ferry Pier	On W bank Yangtze River (Ch'ang Chiang) at Pukow (P'u-k'ou) across from Nanking (Nan-ching) (Chiang-ning)	32°05'N 118°45'E	BSU	RRT	Important RR ferry terminal connecting Peking-Nanking and Pukow-Shanghai Lines.
83:1-100 Shanghai, (China)	Shanghai-Nanking RR Workshops	On W bank Hwangpu River (Huang-p'u Chiang) at Shanghai (Woosung)	31°22'N 121°30'E	BSU	RRT	Shops equipped for all major repairs on rolling stock.
83:1-107 Shanghai, (China)	Shanghai Portland Cement Co.	On W bank Hwangpu River (Huang-p'u Chiang) S of Shanghai.	31°10'N 121°26'E	BPI	C	One of largest and best equipped plants in area.
83:1-108 Shanghai, (China)	Riverside Plant, Shanghai Power Co.	On W bank Hwangpu River (Huang-p'u Chiang) NE Shanghai, 1/4 mile SW of Point Island (The Point).	31°16'N 121°33'E	BSU	EP	Largest in China; supplies Shanghai industries. 180,000 kw steam plant.
83:1-109 Shanghai, (China)	Chapei Electric Co.	W bank Hwangpu River (Huang-p'u Chiang) SW of Seekingjao Airport, Shanghai.	31°21'N 121°31'E	BSU	EP	22,500 kw steam plant primarily for domestic use.
83:1-110 Shanghai, (China)	French Electric Co.	In French Settlement (Fa Tsuchieh), Shanghai (city).	31°12'N 121°28'E	BSU	EP	20,000 kw, supplying power to French concession. Diesel.
83:1-111 Shanghai, (China)	Woosung Storage	On NW bank of Woosung River (Wu-sung Chiang) (Su-chou Ho) at junction with Yangtze (Ch'ang Chiang)	31°23'N 121°30'E	MS	M	One of principal military storage areas in Shanghai.
83:1-112 Shanghai (China)	Jukong Wharf	W bank Hwangpu River (Huang-p'u Chiang) N of Shanghai (city) and Point Island (The Point).	31°19'N 121°33'E	MS BSU	M S	Important military supply trans-shipment point.
83:1-113 Shanghai (China)	Point Island Storage	On Point Island (The Point) in Hwangpu River (Huang-p'u Chiang) N Shanghai (city).	31°17'N 121°33'E	BSU	S	Large storage and trans-shipment point.
83:1-116 Shanghai (China)	Wuhu Harbor	At Wuhu on Yangtze River (Ch'ang Chiang)	31°20'N 118°22'E	BSU	S	Cancelled. See Target 83:1-3490.
83:1-117 Shanghai (China)	Kiangnan Dock & Engineering Works	W bank Hwangpu River (Huang-p'u Chiang) in S Shanghai (city) about 3 miles S of Soochow Creek (Su-chou Ho) mouth.	31°12'N 121°29'E	BSU BEI	S TE	Largest drydocks and yards in Shanghai. 3 drydocks, also small craft slipways.

BEI—Basic Equipment Industries; BPI—Basic Processing Industries; BSU—Basic Services & Utilities; EPI—End Product Industries; MIC—Mixed Industrial Concentrations; MS—Military Stores.

A—Armament; AC—Aircraft; C—Chemicals; CIS—Coke, Iron & Steel; EP—Electric Power; LM—Light Manufacturing; MMT—Machinery & Machine Tools; M—Munitions; NFM—Non-ferrous Metals; P—Petroleum; RRT—Road & Rail Transportation; S—Shipping; TE—Transportation Equipment; UIC—Urban Industrial Concentrations.

SHEETATI
 DATE.20 June 1945

JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
 NUMERICAL TARGET INDEX

OBJECTIVE AREA 83:1—SHANGHAI (CHINA)—(Continued)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
83:1-118 Shanghai (China)	Yangtzepoo Docks, Nos. 1 and 2	N bank Hwangpu River (Huang-p'u Chiang) about 2 miles E of mouth of Soochow Creek (Su-chou Ho) Shanghai.	31°15'N 121°31'E	BSU BEI	S TE	Two drydocks with yards and machine shops.
83:1-119 Shanghai (China)	International Dock	E bank Hwangpu River (Huang-p'u Chiang) NE Shanghai, 1/2 mile SW of Standard Oil Storage. (83:4-58)	31°16'N 121°33'E	BSU	S	One large drydock.
83:1-121 Shanghai (China)	Tungkadoo Dock	At Shanghai City, on E bank Hwangpu River (Huang-p'u Chiang) about 2 miles SSE Soochow Creek (Su-chou Ho) mouth.	31°13'N 121°30'E	BSU	S	One drydock used for repair work.
83:1-122 Shanghai (China)	Kiousin Docks	W bank Hwangpu River (Huang-p'u Chiang) S Shanghai 1/4 mile E of Shanghai South RR Yards (83:1-128)	31°12'N 121°30'E	BSU BEI	S TE	One drydock, 5 building berths and 1 slipway.
83:1-123 Shanghai (China)	Ping An Dock	SE Shanghai (city) area, across Hwangpu River (Huang-p'u Chiang) from Kiangnan Dock & Engineering Works (83:1-117)	31°12'N 121°30'E	BSU	S	Small drydock used for repair work.
83:1-124 Shanghai (China)	Petroleum Center	On Kao-Chiao-Sha (Chiang-hsin Sha) (Gough Island) E bank Hwangpu River (Huang-p'u Chiang) just N of Shanghai.	31°21'N 121°32'E	MS	P	Largest oil storage target in China.
83:1-125 Shanghai (China)	Maruzen Oil Installation	Across Hwangpu River (Huang-p'u Chiang) from N Shanghai 1/2 mile S of Petroleum Center. (83:1-124)	31°20'N 121°33'E	EPI	P	Navy servicing plant with 7 oil storage tanks and a small refinery.
83:1-126 Shanghai (China)	Standard Vacuum Oil Storage	Across Hwangpu River (Huang-p'u Chiang) from N Shanghai 1/2 mile S of Point Island (The Point).	31°16'N 121°33'E	MS	P	2nd largest oil storage target in China.
83:1-127 Shanghai (China)	Shanghai-Nanking RR, North Station	NW section Shanghai 2 miles NW of Soochow Creek (Su-chou Ho) mouth.	31°15'N 121°28'E	BSU	RRT	Principal shunting yards for Shanghai area.

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**JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
NUMERICAL TARGET INDEX**

SHEETATI

DATE20 June 1945

OBJECTIVE AREA 83:1—SHANGHAI (CHINA)—(Continued)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
83:1-128 Shanghai (China)	Shanghai South RR Yards	S section Shanghai (city) 1/2 mile W of Woosung (Wu-sung) River.	31°12'N 121°29'E	BSU	RRT	Transportation center for movements S to Hangchow (Hang-chou) (Hang-hsien) and Ningpo (Yin-hsien).
83:1-129 Shanghai (China)	Nanking RR Ferry Pier	On E bank Yangtze River (Ch'ang Chiang) at N Nanking (Nan-ching) (Chiang-ning).	32°05'N 118°45'E	BSU	RRT	Important RR ferry terminal connecting Peking-Nanking and Pukow-Shanghai Lines.
83:1-131 Shanghai (China)	South Shanghai RR Wharves	W bank Hwangpu River (Huang-p'u Chiang) in S Shanghai at mouth of Jinhuikiang Creek (Jih-hui Chiang).	31°11'N 121°28'E	BSU	RRT	Shanghai-Hangchow (Hang-chou) (Hang-hsien)—Ningpo (Yin-hsien) RR wharves. Includes extensive coal yard.
83:1-133 Shanghai (China)	Markham Road Yard	On Soochow Creek (Su-chou Ho) in NW Shanghai, 2 miles W of Shanghai-Nanking RR, North Station. (83:1-127).	31°15'N 121°27'E	BSU	RRT	Large freight depot with docks and extensive warehouses.
83:1-154 Shanghai (China)	Moller Steamship Co.	Across Hwangpu River (Huang-p'u Chiang) from NE Shanghai. Opposite Point Island (The Point)	31°16'N 121°34'E	BSU	S	Well equipped repair yard for boiler, engine and above-water repairs. No drydocks.
83:1-176 Shanghai (China)	Maanshan Iron Works	At Tank-t'u-hsien (Taiping), on Yangtze River (Ch'ang Chiang) about 50 miles SSE Nanking (Nan-ching) (Chiang-ning).	31°43'N 118°29'E	BPI	CIS	Has coke ovens and 12 small blast furnaces. About 9% of total pig iron capacity for Occupied China.
83:1-3489 Shanghai (China)	Chen-chiang—Port Area [Ching Kiang]	On Yangtze River (Ch'ang Chiang) approximately 40 miles E of Nanking (Nan-ching) (Chiang-ning).	32°10'N 119°30'E	BSU	S	Yangtze River port. Annual capacity about 150,000 metric tons.
83:1-3490 Shanghai (China)	Wu-hu—Port Area [Wuhu]	On Yangtze River (Chang Chiang) W of Shih-chiu Lake (Shih-chiu Hu)	31°20'N 118°22'E	BSU	S	Annual capacity about 360,000 metric tons. Yangtze River trans-shipment port.
83:1-3540 Shanghai (China)	Nan-ching-P'u-k'ou—Port Area [Nanking] [Pukow]	On Yangtze River (Ch'ang Chiang) Shih-chiu Lake (Shih-chiu Hu)	32°05'N 118°45'E	BSU	S RRT	Annual capacity about 250,000 metric tons. Yangtze port. Rail ferry terminus.
83:1-3555 Shanghai (China)	Shang-hai/Wu-sung—Port Area [Woosung]	Near East China Sea and mouth of Yangtze River (Ch'ang Chiang.)	31°19'N 121°33'E	BSU	S	Annual capacity about 11,000,000 metric tons. General cargo. Entry to Yangtze Valley.

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JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
 NUMERICAL TARGET INDEX

SHEETATI
 DATE.20 June 1945

OBJECTIVE AREA 83:2—WENCHOW (CHINA)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
83:2-132 Wenchow (China)	Chientang River Bridge	At Hangchow (Hang-hsien)	30°12'N 120°10'E	BSU	RRT	Was being constructed for completion at end of 1943.
83:2-3494 Wenchow (China)	Yung-chia—Port Area [Wenchow]	On Ou River (Ou Chiang) (Wu Kieng) and East China Sea.	28°00'N 120°40'E	BSU	S	Of local military importance.

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JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
 NUMERICAL TARGET INDEX

SHEETATI
 DATE.20 June 1945

OBJECTIVE AREA 83:3—FUKIEN (CHINA)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
83:3-3495 Fukien (China)	Min-hou -Port Area [Foochow]	On Min Chiang River (Min Kiang) near East China Sea.	26°00'N 119°20'E	BSU	S	Of local military importance.
83:3-3496 Fukien (China)	Hsia-men -Port Area [Amoy]	On Formosa Strait.	24°25'N 118°05'E	BSU	S	Of local military importance.
83:3-3497 Fukien (China)	Shan-t'ou—Port Area [Swatow]	On South China Sea just S of Formosa Strait.	23°20'N 116°40'E	BSU	S	Of local military importance.

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JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
 NUMERICAL TARGET INDEX

SHEET **ATI**
 DATE **20 June 1945**

OBJECTIVE AREA 83:4—CANTON (CHINA)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
83:4-48 Canton (China)	Hong Kong Electric Co. (North Point)	On North Point (Tsattze Mui) Hong Kong Island (Hsiang-chiang chan) (Hsiang-kang).	22°18'N 114°11'E	BSU	EP	Only known power source on Hong Kong Island Capacity 45,000 kw.
83:4-49 Canton (China)	China Light & Power Co. (Kowloon)	SE Kowloon (Chiu-lung) on Kowloon Bay (Chiu-lung Wan)	22°19'N 114°11'E	BSU	EP	Only known power source in Kowloon; 39,000 kw.
83:4-50 Canton (China)	Kowloon Wharves	SW Kowloon (Chiu-lung) fronting on Hong Kong Harbor.	22°18'N 114°10'E	BSU	S	Main wharfage facilities in this area. Capable of handling any size vessel.
83:4-51 Canton (China)	Whampoa Wharves	Canton River (Chu Chiang) at Whampoa (Huang-pu).	23°06'N 113°26'E	BSU	S	Modern deep water port facilities for Canton (Kuang-chou) (Kwangchow). Modern facilities.
83:4-52 Canton (China)	Typhoon Refuge Harbor	On Hong Kong Harbor, in W Kowloon (Chiu-lung) just N of Kowloon Wharves (83:4-50).	22°19'N 114°10'E	BSU	S	Protected harbor for junks.
83:4-53 Canton (China)	Taikoo Dockyard	NE Hong Kong (Hsiang-chiang) (Hsiang-kang).	22°17'N 114°13'E	BSU BEI	S TE	Large commercial shipyard with 1 drydock, 3 slipways and 6 building slips.
83:4-54 Canton (China)	Royal Navy Yard	N Hong Kong (Hsiang-chiang) (Hsiang-kang)	22°17'N 114°10'E	EPI	A	Small modern yard with one large drydock.
83:4-55 Canton (China)	Kowloon Dockyard	SE Kowloon (Chiu-lung).	22°18'N 114°11'E	BSU BEI	S TE	Large commercial shipyard, having 3 drydocks, 2 slipways and 2 building berths.
83:4-56 Canton (China)	Cosmopolitan Dock	W Kowloon (Chiu-lung) just N of Typhoon Refuge Harbor (83:4-52)	22°19'N 114°10'E	BSU BEI	S TE	Large commercial shipyard, handling all types of repairs and building medium ships.
83:4-57 Canton (China)	Aberdeen Dock	SE part of Hong Kong (Hsiang-chiang) (Hsiang-kang) Island, opposite and N of Aberdeen Island (Ap Li Chau)	22°14'N 114°09'E	BSU BEI	S TE	Small shipyard with one drydock and several small slipways.
83:4-58 Canton (China)	Standard Oil Storage	On point ¾ mile N of Ngongshun Chau (Wan Chau Chu) Island Hong Kong Harbor.	22°20'N 114°08'E	MS	P	Has 3 large and 4 medium tanks and several warehouses.
83:4-59 Canton (China)	Kowloon Railroad Terminal	S tip of Kowloon (Chiu-lung) Peninsula.	22°18'N 114°10'E	BSU	RRT	Terminus of Canton (Kuang-chou) (Kwangchow)-Kowloon RR. Extensive yards, warehouses, ferry piers and wharves.
83:4-60 Canton (China)	Canton-Kowloon Railroad Workshops	S Kowloon (Chiu-lung) just W of Kowloon Dockyard. (83:4-55).	22°19'N 114°11'E	BSU	RRT	Only RR workshops in this area.

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SHEETATI
 DATE. 20 June 1945

JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX—JAPANESE WAR
 NUMERICAL TARGET INDEX

OBJECTIVE AREA 83:4—CANTON (CHINA)—(Continued)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
83:4-61 Canton (China)	Green Island Cement Co.	SE Kowloon (Chiu-lung)	22°19'N 114°11'E	BPI	C	Large cement plant.
83:4-95 Canton (China)	Texas Oil Storage	On Chen Wan Bay	22°22'N 114°07'E	MS	P	Has 7 tanks, several warehouses and a can factory.
83:4-96 Canton (China)	Lin Ma Hang Lead Mine	About 10 miles NW of Mirs Bay (Ta- p'eng Wan) (Masze Wan)	22°33'N 114°10'E	BPI	NFM	Concentrating mill which in 1939 produced 5% of Japan's needs.
83:4-97 Canton (China)	Army Depot	E of Canton (Kuang-chou) (Kwangchow) just W of Tien Ho Airport.	23°08'N 113°19'E	MS	M	Large Army depot.
83:4-3498 Canton (China)	Kuang-chou/Huang-pu—Port Area [Canton] [Whampoa]	On Canton (Chu) River in S China.	23°06'N 113°26'E	BSU	S	Head of navigation of principal entry to S China.
83:4-3515 Canton (China)	Hsiang-Kang/Chiu-lung—Port Area [Hongkong] [Kowloon]	On South China Sea in S China.	22°17'N 114°10'E	BSU	S	Convoy staging. Ship repair. Principal trans-shipment point in S China.

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JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
 NUMERICAL TARGET INDEX

SHEET **ATI**
 DATE **20 June 1945**

OBJECTIVE AREA 83:6—HAINAN (CHINA)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
83:6-33 Hainan (China)	Yulinkan Harbor Naval Base	NW Yulinkan Bay (Yu-lin Chiang)	18°13'N 109°32'E	EPI	A	Probably used mostly as submarine base.
83:6-144 Hainan (China)	Sam-A Naval Supply Depot	On Sam-A Bay (San-ya Chiang)	18°17'N 109°29'E	MS	M	Approximately 100 buildings, including 2 areas of munitions storage. Has 3 piers and RR, road and water transportation.
83:6-145 Hainan (China)	Samkong Munitions Dump	On north shore of Sam-A inlet and along shore of Sam-A Bay (San-ya Chiang), S Hainan (Hai-nan Tao).	18°15'N 109°31'E	MS	M	35 buildings in area 4700 by 1500 ft. Munitions dump occupies N half of area.
83:6-146 Hainan (China)	Yulinkan Harbor (W. Shore)	On W shore Yulinkan Harbor (Yü-lin Chiang), S Hainan (Hai-nan Tao).	18°14'N 109°33'E	BSU	S	Has 5 piers, quay and approximately 160 barracks and storage buildings in area 2200 by 7700 ft.
83:6-147 Hainan (China)	Yulinkan Harbor (SE Shore) Oil Storage	SE shore of Yulinkan Harbor (Yü-lin Chiang), S Hainan (Hai-nan Tao).	18°14'N 109°35'E	BSU MS	S P	Has 6 tanks, storage buildings and numerous oil drums in area 500 by 500 ft. One large fueling pier and 2 small piers.
83:6-148 Hainan (China)	Yulinkan Harbor (SE Shore) RR Yard, Coal & Ore Storage	SE shore of Yulinkan Harbor (Yü-lin Chiang), S Hainan (Hai-nan Tao).	18°14'N 109°35'E	BSU	S RRT	Small terminal RR yard with 9 spur tracks and quay. Open ore storage area.
83:6-149 Hainan (China)	New Hoihow Seaport	On Hoihow Bay (Hai-k'ou Ao) (Hai-k'ou Wan) about 4 miles SW of Hoihow (Haiho).	20°02'N 110°16'E	BSU	S	Port for Hoihow and Kiungshan (Ch'iung-shan) (Kiungchow) air base. Has berthing space and 2 piers
83:6-151 Hainan (China)	Sam-A Ammunition Depot	About 3 miles NNW of Sam-A (San-ya) village.	18°21'N 109°27'E	MS	M	Large munitions depot with an adjoining military camp.

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JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
 NUMERICAL TARGET INDEX

SHEETATI
 DATE20 June 1945

OBJECTIVE AREA 83:8—HANKOW (CHINA)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
83:8-114 Hankow (China)	Shen-Chia-Yuan Port	W bank Yangtze River (Ch'ang Chiang) just N of Shih-hwei-yao (Shih-hui-yao)	30°15'N 115°02'E	BSU	S	Shipping point for iron ore from Tayeh Mines.
83:8-115 Hankow (China)	Shih-Hwei-Yao Port	W bank Yangtze River (Ch'ang Chiang) at Shih-hwei-yao (Shih-hui-yao)	30°12'N 115°03'E	BSU	S	Cancelled. See Target 83:8-3492.
83:8-142 Hankow (China)	Shih-Hwei-Yao RR Workshops	1/2 mile SSW of Shih-hwei-yao (Shih-hui-yao) Port on Yangtze River (Ch'ang Chiang).	30°12'N 115°03'E	BSU	RRT	Only workshops for short RR connecting local ports with Tayeh iron mines.
83:8-180 Hankow (China)	Tayeh Iron and Steel Works	At Shihhweiyao (Shih-hui-yao).	30°13'N 115°04'E	BPI	CIS	Has approximately 9% of total pig iron capacity of Occupied China.
83:8-182 Hankow (China)	Hankow Oil Storage Depot	5 1/4 miles NNE of Hankow.	30°39'N 114°20'E	MS	P	About 250,000 barrels capacity remaining.
83:8-3491 Hankow (China)	Chiu-chiang—Port Area [Kiukiang]	On Yangtze River (Ch'ang Chiang) N of P'o-Yang Lake (P'o-yang Hu)	29°45'N 115°55'E	BSU	S	Annual capacity about 150,000 metric tons. Yangtze River Port.
83:8-3492 Hankow (China)	Sh h-Hwei-Yao—Port Area [Shih-hui-yao]	On Yangtze River (Ch'ang Chiang) N of Wei-yuan Lake.	30°12'N 115°03'E	BSU	S	Annual capacity about 150,000 metric tons. Yangtze port of Tayeh mines.
83:8-3493 Hankow (China)	Han-k'ou/Wu-ch'ang—Port Area [Hankow] [Wuchang]	On Yangtze River (Ch'ang Chiang) E of Hsi Lake (Hsi Ho)	30°33'N 114°17'E	BSU	S	Annual capacity about 150,000 metric tons. Yangtze River port.

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JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
 NUMERICAL TARGET INDEX

SHEET AT1
 DATE 20 June 1945

OBJECTIVE AREA 83:11—TSINGTAO (CHINA)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
83:11-63 Tsingtao (China)	Tzuchwan Mines	4 mi S of Tzuchwan (Tzu-ch'uan) RR Station.	36°39'N 117°57'E	BPI	CIS	Important producer of good bunker coal.
83:11-64 Tsingtao (China)	Fangtze Mines	SW of Fangtze (Fang-tzu) RR Station	36°37'N 119°08'E	BPI	CIS	Important producer of good bunker coal.
83:11-65 Tsingtao (China)	Tsaochwang Mines	At Tsao-chuang Village.	34°52'N 117°26'E	BPI	CIS	One of largest coal producing areas in China.
83:11-68 Tsingtao (China)	New Power Plant (Tsingtao)	NE Tsingtao (Ch'ing-tao)	36°07'N 120°20'E	BSU	EP	Capacity 44,000 kw. Serves northern industrial area.
83:11-69 Tsingtao (China)	Old Power Plant (Tsingtao)	W Tsingtao (Ch'ing-tao)	36°04'N 120°18'E	BSU	EP	44,000 kw station, used chiefly for municipal purposes.
83:11-70 Tsingtao (China)	Power Plant (Laoyao)	At Lao-yao (Lien-yün) (Lienyün-kang)	34°44'N 119°27'E	BSU	EP	Ferro-concrete construction.
83:11-76 Tsingtao (China)	Oil Storage Area	E of harbor piers, Tsingtao (Ch'ing-tao)	36°05'N 120°20'E	MS	P	Storage tanks with capacity of 50,000 tons.
83:11-78 Tsingtao (China)	Harbor Facilities & Shipping (Tsingtao)	NW Tsingtao (Ch'ing-tao)	36°05'N 120°19'E	BSU	S	Cancelled. See Target 83:11-3568.
83:11-79 Tsingtao (China)	Harbor Facilities & Shipping (Lao-Yao)	At Lao-yao (Lien-yun) (Lien-yunkang)	34°44'N 119°27'E	BSU	S	Cancelled. See Target 83:11-3580.
83:11-88 Tsingtao (China)	RR Shops & Roundhouse (Tsingtao)	NE Tsingtao (Ch'ing-tao)	36°06'N 120°20'E	BSU BEI	RRT TE	Divisional repairs and maintenance. Some construction.
83:11-89 Tsingtao (China)	RR Shops (Tsinan)	At Tsinan (Chi-nan) (Li-ch'eng)	36°40'N 117°01'E	BSU	RRT	Divisional repair and maintenance of RR equipment.
83:11-91 Tsingtao (China)	Yellow River RR Bridge	5 miles N of Tsinan (Chi-nan) (Li-ch'eng)	36°43'N 117°01'E	BSU	RRT	Steel construction. Was destroyed by Chinese, but has been rebuilt.
83:11-93 Tsingtao (China)	Drydock	E Tsingtao (Ch'ing-tao), near Junk Harbor (Hsigo Chiang)	36°04'N 120°18'E	BSU	S	Can accommodate vessels of 6,000 tons.
83:11-94 Tsingtao (China)	Naval Repair Shops	NW Tsingtao (Ch'ing-tao) S of harbor piers and facilities.	36°05'N 120°19'E	EPI	A	No further information.
83:11-139 Tsingtao (China)	Poshan Mines	At Poshan	36°31'N 117°51'E	BPI	CIS	Second largest coal field in China producing high grade coking bituminous coal.
83:11-174 Tsingtao (China)	North China Light Metals Co., Changtien Plant	About 2¼ miles S of Changtien (Shantung)	36°46'N 118°01'E	BPI	NFM	New large alumina plant, using locally mined shale.

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SHEETATI
 DATE.20 June 1945

JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
 NUMERICAL TARGET INDEX

OBJECTIVE AREA 83:11—TSINGTAO (CHINA)—(Continued)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
83:11-175 Tsingtao (China)	Ching-tao Iron Co.	At Ts'ang-kou, about 10 miles NE of Chingtao (Tsingtao).	36°12'N 120°24'E	BPI	CIS	Approximately 11% of pig iron producing capacity of Occupied China.
83:11-3487 Tsingtao (China)	Chih-fou/Yen-t'ai—Port Area [Chefoo]	On Yellow Sea near Pechihli (Po-hai) Strait.	37°30'N 121°25'E	BSU	S	Port for coastal vessels. No railroad.
83:11-3488 Tsingtao (China)	Wei-hai-wei—Port Area	On Yellow Sea in NE China.	37°30'N 122°05'E	BSU	S	Port for coastal vessels. No railroad.
83:11-3568 Tsingtao (China)	Ch'ing-tao—Port Area [Tsingtao]	On entrance to Chiao-chou (Kiaochow) Bay in NE China.	36°05'N 120°19'E	BSU	S	Annual capacity about 4,268,000 metric tons. Coal, ore, salt and general cargo.
83:11-3580 Tsingtao (China)	Lien-yun—Port Area [Lao-Yao]	On Yellow Sea in NE China	34°44'N 119°27'E	BSU	S	Annual capacity about 1,100,000 metric tons. Coal loading port.

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JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
 NUMERICAL TARGET INDEX

SHEETATI
 DATE.20 June 1945

OBJECTIVE AREA 83:12—TIENSIN (CHINA)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
83:12-1 Tientsin (China)	New Japanese Coal & Ore Wharf (Tangku)	N bank Powder Reach, Hai River (Hai Ho) 1/2 mi W of Tangku	39°01'N 117°39'E	BSU	S	New wharf with network of RR spurs.
83:12-2 Tientsin (China)	Taku Tug & Lighterage Co. (Taku)	W bank at mouth of Hai River (Hai Ho) 3/4 mi NE of Taku	39°00'N 117°42'E	BSU	S	Repair shop and tug concentration.
83:12-3 Tientsin (China)	Butterfield & Swire Co. Wharves (Taku)	N bank of Hai River (Hai Ho) 1/4 mi N of Taku	39°00'N 117°41'E	BSU	S	Shipping concentration point.
83:12-4 Tientsin (China)	Asiatic Petroleum Co. (Taku)	N bank of Hai River (Hai Ho) at Taku	38°59'N 117°40'E	MS	P	Five storage tanks.
83:12-5 Tientsin (China)	Japanese Oil Storage (Taku)	N bank of Hai River (Hai Ho) across from Siku (Hsi-taku) near Taku	38°59'N 117°40'E	MS	P	Seven small storage tanks.
83:12-6 Tientsin (China)	Chinese Naval Dockyard (Taku)	Taku, on S bank of Hai River (Hai Ho)	38°59'N 117°40'E	EPI	A	Best drydocking equipment in Taku Port.
83:12-7 Tientsin (China)	General Wharf Area (Tangku)	Between Tangku and Siku (Hsi-taku) on E bank of Hai River (Hai Ho).	39°00'N 117°40'E	BSU	S	Important shipping concentrations.
83:12-8 Tientsin (China)	Yung Li Alkali Plant (Tangku)	NE Tangku about 1/2 mile E of Hai River (Hai Ho).	39°01'N 117°40'E	BPI	C	Produces soda ash and ammonium sulphate.
83:12-9 Tientsin (China)	Standard Vacuum, Ta Hwa, Idemitsu Cos. (above Tangku)	On North bank of Hai River (Hai Ho) about 2 mi above Tangku	39°02'N 117°38'E	MS	P	Six small storage tanks.
83:12-10 Tientsin (China)	Asiatic Petroleum Co. (Tientsin)	E side of Tientsin (city) (T'ien-ching) on Tangku RR just SE of main RR yards on N bank of Hai River (Hai Ho).	39°08'N 117°12'E	MS	P x	Warehouses and other buildings. Storage tanks removed.
83:12-11 Tientsin (China)	East Station (Tientsin)	Central Tientsin (city) (T'ien-ching) on N bank of Hai River (Hai Ho)	39°08'N 117°11'E	BSU	RRT	Locomotive and RR car concentration.
83:12-12 Tientsin (China)	Central Station & Yards (Tientsin)	N Tientsin (T'ien-ching) just S of Hsin Kai River (Hsin-kai Ho)	39°10'N 117°11'E	BSU	RRT	RR car and locomotive concentration. Important to economic traffic for Japan.
83:12-13 Tientsin (China)	Standard Vacuum Oil Co. (Tientsin)	SE Tientsin (T'ien-ching) on NE bank of Hai River (Hai Ho)	39°07'N 117°13'E	MS	P	7 tanks of various sizes.
83:12-14 Tientsin (China)	Jardine Matheson Wharves (Tientsin)	On NE bank of Hai River (Hai Ho) in SE Tientsin (T'ien-ching)	39°07'N 117°12'E	BSU	S	New warehouses have been constructed by Japanese.

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SHEETATI

DATE.20 June 1945

JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX—JAPANESE WAR
 NUMERICAL TARGET INDEX

OBJECTIVE AREA 83:12—TIENSIN (CHINA)—(Continued)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
83:12-15 Tientsin (China)	Belgian Tramway & Light Co. (Tientsin)	Central Tientsin (city) (T'ien-ching) ¾ mile W of RR yards on N bank of Hai River (Hai Ho)	39°08'N 117°11'E	BSU	EP	Largest in Tientsin (city). Capacity 22,000 kw.
83:12-16 Tientsin (China)	British Electric Co. (Tientsin)	S part of Tientsin (city) (T'ien-ching) On S bank of creek.	39°07'N 117°11'E	BSU	EP	Ferro-concrete building. No other information.
83:12-17 Tientsin (China)	Hsin Kai River RR Bridge (Tientsin)	N Tientsin (city) (T'ien-ching)	39°10'N 117°11'E	BSU	RRT	Steel construction. On line handling important economic traffic to Japan.
83:12-18 Tientsin (China)	Hai River RR Bridge (Tientsin)	N Tientsin (city) (T'ien-ching) at junction of Hsin Kai River (Hsin-k'ai Ho) and Hai River (Hai Ho)	39°09'N 117°10'E	BSU	RRT	Steel construction. On line handling important economic traffic to Japan.
83:12-19 Tientsin (China)	West Station Yards (Tientsin)	NW part of Tientsin (city) (T'ien-ching) 1 mile W of juncture of Hai and Hsin Kai Rivers (Hai Ho and Hsin-k'ai Ho)	39°09'N 117°09'E	BSU	RRT	RR car and locomotive concentration. On line handling important economic traffic to Japan.
83:12-20 Tientsin (China)	Hai Ho Conservation Board Dockyard (Tientsin)	SE Tientsin (city) (T'ien-ching) on NE bank of Hai River (Hai Ho).	39°06'N 117°13'E	BSU	S	Repair shop and concentration of dredging equipment to keep Hai River open.
83:12-21 Tientsin (China)	Texas Company (Tientsin)	SE Tientsin (city) (T'ien-ching), E bank of Hai River (Hai Ho).	39°08'N 117°13'E	MS	P	5 tanks ranging from 8,200 to 64,000 bbls capacity.
83:12-22 Tientsin (China)	Anchorage Taku Bar	E of Taku Light Ship about 10 miles E of Hai River (Hai Ho) mouth.	38°50'N 117°50'E	BSU	S	Ships drawing more than 14 ft anchor here for cargo lighterage.
83:12-24 Tientsin (China)	Piers (Chinwangtao) [Ch'in-huang-tao]	Chinwangtao (village) (Ch'in-huang-tao).	39°55'N 119°37'E	BSU	S	Has steel piling and concrete surfacing. Can handle 6 to 8 ships for coal loading.
83:12-25 Tientsin (China)	Kailaun Mining Adm. RR Yards & Shops (Chinwangtao)	Chinwangtao (village) (Ch'in-huang-tao)	39°56'N 119°36'E	BSU	RRT	RR car and locomotive concentration. Important to main flow of economic traffic from N China to Japan.
83:12-26 Tientsin (China)	Port Power House (Chinwangtao)	Chinwangtao (village) (Ch'in-huang-tao) ¾ mile N of inshore end of piers.	39°56'N 119°36'E	BSU	EP	Ferro-concrete building.
83:12-27 Tientsin (China)	Yao Hua Glass Works (Chinwangtao)	Chinwangtao (Ch'in-huang-tao) Village just S of Chinwangtao RR station.	39°56'N 119°36'E	BPI	C	Has own power plant and extensive mechanical equipment.

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JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
NUMERICAL TARGET INDEX

SHEET **ATI**DATE **20 June 1945****OBJECTIVE AREA 83:12—TIENSIN (CHINA)—(Continued)**

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
83:12-28 Tientsin (China)	Peiping-Mukden RR Station & Yards (Chinwangtao)	NE Chinwangtao (village) (Ch'in-huang-tao)	39°56'N 119°36'E	BSU	RRT	RR car and locomotive concentration; Important to main flow of economic traffic from N China to Japan.
83:12-29 Tientsin (China)	Tientsin Lighter Co. (Taku)	W bank Hai River (Hai Ho) just N of E end of Taku	39°00'N 117°41'E	BSU	S	Shop and concentration of lighters, tugs and cargo handling equipment.
83:12-34 Tientsin (China)	Linsi Power Plant (Linsi)	About 1½ mile S of Kuyeh RR Station.	39°42'N 118°26'E	BSU	EP	Central station for local collieries.
83:12-35 Tientsin (China)	Tangshan Power Plant (Tangshan)	Just N of Tangshan RR Station.	39°40'N 118°13'E	BSU	EP	Power station for local collieries.
83:12-36 Tientsin (China)	Tangshan RR Shops (Tangshan)	At Tangshan RR Station.	39°38'N 118°12'E	BSU	RRT	RR car and locomotive concentrations.
83:12-37 Tientsin 'China)	Chee Hsin Cement Company Alumina Plant	In central Tangshan.	39°38'N 118°11'E	BPI	NFM C	Converted from cement plant to one of 3 largest Japanese alumina plants.
83:12-38 Tientsin (China)	Lwan River RR Bridge	N of Lwannsien (Luan-hsien)	39°46'N 118°47'E	BSU	RRT	On Peiping-Mukden Line between Kailau Mines (K'ai-luan Mein-kuang) and Manchukuo (Manchuria) steel mills. Critical point for cutting coking coal traffic.
83:12-39 Tientsin (China)	Pehtang River RR Bridge	S of Latai (Lu-t'ai-chen)	39°17'N 117°45'E	BSU	RRT	Steel. On Peiping-Mukden Line. Carries economic traffic important to Japan.
83:12-40 Tientsin (China)	Shanhaikwan RR Shops	At Shanhaikwan (Lin-yu) (Shan-hai-kuan).	40°01'N 119°45'E	BSU BEI	RRT TE	Important shop on Peiping-Mukden Line. Locomotive and RR car building and repair. Only bridge construction in area.
83:12-44 Tientsin (China)	RR Shops (Tientsin)	N part of Tientsin (city) (T'ien-ching) about ½ mile NW of RR bridge over Hsin Kai River (Hsin-k'ai Ho).	39°10'N 117°11'E	BSU	RRT	RR maintenance.
83:12-177 Tientsin (China)	Shihchingshan Iron Works	On E bank of Yungting (Yungting ho) River about 14 miles W of center of Peiping (Peking).	39°55'N 116°10'E	BPI	CIS	Largest iron works in Occupied China with capacity of approximately 25% of total capacity.
83:12-179 Tientsin (China)	Tangshan Iron and Steel Works	1½ mile N of Tangshan, Hopeh Province.	39°38'N 118°11'E	BPI	CIS	Important producer of pig-iron.
83:12-3562 Tientsin (China)	T'ang-ku/Ta-ku—Port Area [Tangku] [Taku]	On W edge of Gulf of Chilli (Po Hai).	39°00'N 117°40'E	BSU	S	Annual capacity about 2,750,000 metric tons. Coal, salt, ore, rice cargoes.
83:12-3584 Tientsin (China)	Ch'in-huang-tao—Port Area [Chinwangtao]	On Gulf of Liaotung in NE China.	39°55'N 119°37'E	BSU	S	Annual capacity about 1,650,000 metric tons. Coal loading port.

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JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
 NUMERICAL TARGET INDEX

SHEETATI
 DATE. 20 June 1945

OBJECTIVE AREA 83:13—KALGAN (CHINA)

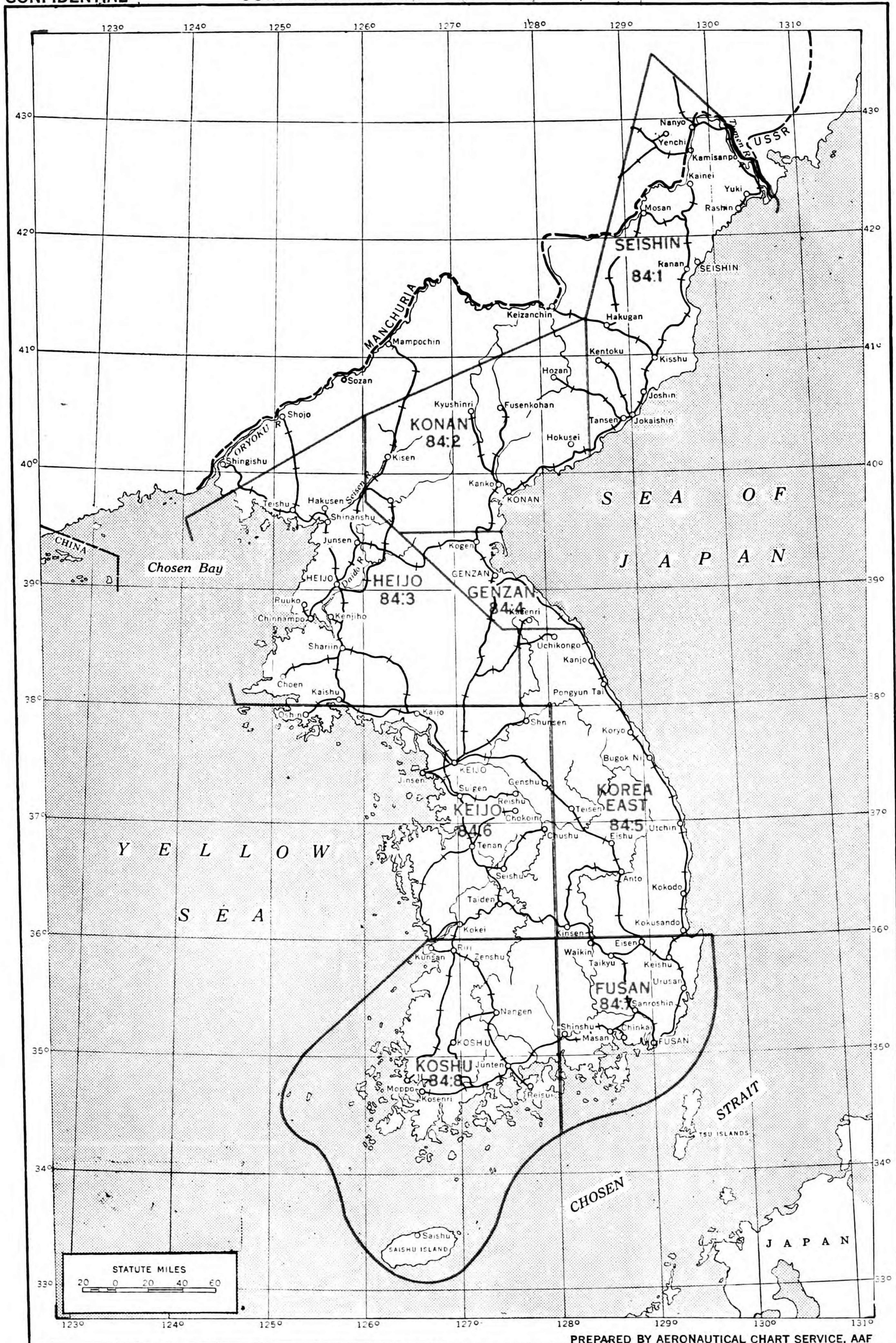
Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
83:13-181 Kalgan (China)	Tatung Explosive Works	Directly N of Tatung.	40°07'N 113°14'E	EPI MS	A M	Large high explosives manufacturing and storage area.

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84 KOREA

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AIR TARGET INDEX — JAPANESE WAR
 NUMERICAL TARGET INDEX

SHEET **ATI**
 DATE **20 June 1945**

OBJECTIVE AREA 84:1—SEISHIN (KOREA)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
84:1-13 Seishin (Korea)	Seishin Harbor	At Seishin (Ch'ongjin).	41°46'N 129°48'E	BSU	S	Cancelled. See Target 84:1-3454.
84:1-14 Seishin (Korea)	Rashin Harbor	At Rashin (Najin).	42°12'N 130°18'E	BSU	S	Cancelled. See Target 84:1-3453.
84:1-15 Seishin (Korea)	Yuki Harbor	At Yuki (Unggi).	42°20'N 130°24'E	BSU	S	Cancelled. See Target 84:1-3452.
84:1-16 Seishin (Korea)	Seishin Railroad Yards	At Seishin (Ch'ongjin) adjoining W side of harbor.	41°47'N 129°49'E	BSU	RRT	Important terminal yards handling traffic through the port between Japan and N Manchuria and iron ore for Japan.
84:1-17 Seishin (Korea)	Seishin Railway Workshops	At Seishin (Ch'ongjin) 1/4 mile N of Seishin RR yards. (84:1-16).	41°47'N 129°48'E	BSU	RRT	One of the 2 rolling stock repair shops in Korea NE of Heijo (P'yongyang).
84:1-18 Seishin (Korea)	Rashin Railroad Yards	Adjacent to and N of Rashin Harbor. (84:1-14).	42°15'N 130°18'E	BSU	RRT	Important terminal yards for handling Rashin Port traffic.
84:1-19 Seishin (Korea)	Tumen River Bridge No. 1	Over Tumen River (Tuman-gang) (Toman-ko) between Nanyo (Namyang), Korea and Tumen Manchuria.	42°59'N 129°48'E	BSU	RRT	Steel bridge on masonry piers. Carries traffic between Manchuria and Rashin (Najin) and Seishin (Ch'ongjin) ports. Of major importance.
84:1-20 Seishin (Korea)	Tumen River Bridge No. 2	At Kamisanpo (Sangsambong) (Kamisambo).	42°42'N 129°45'E	BSU	RRT	Alternate route to Tumen River Bridge No. 1 (84:1-19) for traffic between Northern Manchuria and Seishin (Ch'ongjin). Of major importance.
84:1-28 Seishin (Korea)	Japan Iron Works, Seishin	W bank Yujosen River (Susongch'on) 4 miles WSW of Seishin (Ch'ongjin).	41°46'N 129°46'E	BPI	CIS	Reported largest pig iron capacity in Korea. Estimated capacities 310,000 tons pig iron and 245,000 tons steel ingots.
84:1-29 Seishin (Korea)	Mitsubishi Iron Co.	Approximately 2 miles W of Seishin (Ch'ongjin).	41°46'N 129°47'E	BPI	CIS	Large plant producing sponge iron. Annual capacity in excess of 180,000 tons.
84:1-31 Seishin (Korea)	Japan High Frequency Heavy Industry Co.	On N shore of Joshin Harbor (Songjin-hang) (Joshin-ko) above Joshin (Songjin).	40°41'N 129°13'E	BPI	CIS	Small producer of high speed cobalt, manganese, stainless and other high quality steels.
84:1-32 Seishin (Korea)	Mosan Iron Mine	2 miles E of town of Mozan (Musan).	42°13'N 129°16'E	BPI	CIS	Largest iron mine in Far East. Produces up to 2 1/2 million tons of 57% concentrate annually.
84:1-125 Seishin Korea	Agochi Coal Liquefaction Plant	W of Agochi (Aoji).	42°33'N 130°21'E	EPI	P	One of three largest producers of Japan's synthetic oil.
84:1-126 Seishin (Korea)	Korean Coal Industry Co.	At Eian (Yongan).	41°18'N 129°30'E	EPI	P	Small but important synthetic oil plant.

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SHEETATI
 DATE.20 June 1945

JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
 NUMERICAL TARGET INDEX

OBJECTIVE AREA 84:1—SEISHIN (KOREA)—(Continued)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
84:1-127 Seishin (Korea)	Shako Ore Loader	On W shore of harbor S of Shako (Ch'aho).	40°12'N 128°39'E	BSU	S	Only mechanical ore loader on continent. Shipping point for high grade ore from Rigen Iron Mine. Annual capacity about 1,170,000 metric tons.
84:1-132 Seishin (Korea)	Joshin Harbor	On E edge of Joshin (Songjin).	40°40'N 129°12'E	BSU	S	Cancelled. See Target 84:1-3455.
84:1-212 Seishin (Korea)	Kyosen Hydro-electric Plant No. 1	Exact location unknown On upper branches of Kyosen River (Hoch'on-gang) (Kyosen-ko) W of Joshin (Songjin).	40°40'N 128°30'E	BSU	EP	Key plant in Kyosen Power development. Installed capacity 144,000 kw.
84:1-3452 Seishin (Korea)	Unggi—Port Area [Yuki]	On Sea of Japan in NE corner of Korea.	42°20'N 130°24'E	BSU	S	Alternate port to Najin [Rashin]. Annual capacity about 2,400,000 metric tons.
84:1-3453 Seishin (Korea)	Najin—Port Area [Rashin]	On Sea of Japan in NE corner of Korea.	42°12'N 130°18'E	BSU EPI	S A	Naval station. A principal port of entry of N Korea and Manchuria and for exports to Japan. Annual capacity about 7,530,000 metric tons.
84:1-3454 Seishin (Korea)	Ch'ongjin—Port Area [Seishin]	On Sea of Japan in NE Korea.	41°46'N 129°48'E	BSU	S	Annual capacity about 5,820,000 metric tons. Port is probable outlet for Masan concentrates, and a principal port for continental exports to Japan.
84:1-3455 Seishin (Korea)	Songjin—Port Area [Joshin]	On Sea of Japan in NE Korea.	40°40'N 129°12'E	BSU	S	Possible outlet for Masan concentrates. Annual capacity about 1,980,000 metric tons.
84:1-3461 Seishin (Korea)	Sosura—Port Area [Seisuirai]	On Sea of Japan in NE corner of Korea.	42°16'N 130°36'E	BSU	S	Landing; fishing port.
84:1-3462 Seishin (Korea)	Odaejin—Port Area [Gyotaishin]	On Sea of Japan in NE Korea.	41°22'N 129°46'E	BSU	S	Landing; fishing port.
84:1-3463 Seishin (Korea)	Yonam-ni—Port Area [Yongam-ni] [Ryugan-ri]	On Sea of Japan in NE Korea.	40°28'N 128°54'E	BSU	S	Under construction.
84:1-3554 Seishin (Korea)	Ch'aho—Port Area [Shako]	On Sea of Japan in NE Korea.	40°12'N 128°36'E	BSU	S	Includes Shako Ore Loader (84:1-127).

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JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
NUMERICAL TARGET INDEX

SHEET **ATI**
 DATE **20 June 1945**

OBJECTIVE AREA 84:2—KONAN (KOREA)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
84:2-1 Konan (Korea)	Chosen Nitrogen Fertilizer Co.	On N shore of Konan Harbor, 1½ mile E of Chosen Nitrogen Explosives Factory. (84:2-2).	39°50'N 127°37'E	BPI	C NFM CIS	Largest Jap chemical plant, very important for nitrogen fixation, nitric and sulphuric acids. Also one of 14 most important aluminum plants, and one of 5 most important alumina plants, with expansion in the latter. Important magnesium plant. Also copper and lead refining. One small coke oven battery.
84:2-2 Konan (Korea)	Chosen Nitrogen Explosives Factory	On E bank and near mouth of Josen River (Songch' on-gang) (Josen-ko). 1½ mile W of Chosen Nitrogen Fertilizer Co. (83:2-1).	39°50'N 127°35'E	EPI MS	A M	Modern plant producing industrial explosives, high explosives, detonators, etc.
84:2-3 Konan (Korea)	Motomiya Chemical Plant	On E side of Josen River (Songch' on-gang) (Josen-ko) approximately 1 mile NE of Chosen Nitrogen Explosives Factory (84:2-2).	39°51'N 127°35'E	BPI	C	Major producer of calcium carbide and electrolytic chlorine.
84:2-4 Konan (Korea)	Choshin Hydro-electric Plant No. 1	8 miles S of Choshin River (Changjin-gang) (Choshin-ko) Reservoir and 4 miles NNW of the Choshin Hydro-electric Plant No. 2. (84:2-5).	40°13'N 127°18'E	BSU	EP	Key plant in Choshin power development. Supplies power to Konan (Hungnam).
84:2-5 Konan (Korea)	Choshin Hydro-electric Plant No. 2	12 miles S of Choshin River (Changjin-gang) (Choshin-ko) Reservoir and 4 miles SSE of Choshin Hydro-elec. Plant No. 1. (84:2-4).	40°10'N 127°20'E	BSU	EP	Installed capacity 100,000 kw. Ties in with N Korea network.
84:2-6 Konan (Korea)	Choshin Hydro-electric Plant No. 3	Kokurin River (Hungnim-chon) less than 10 miles S of Choshin Hydro-elec. Plant No. 2. (84:2-5).	Unknown	BSU	EP	Estimated 42,000 kw capacity. Minor plant.
84:2-7 Konan (Korea)	Choshin Hydro-electric Plant No. 4	Kokurin River (Hungnim-chon) less than 12 miles S of Choshin Hydro-elec. Plant No. 2 (84:2-5) and about 2 miles S of Plant No. 3 (84:2-6).	Unknown	BSU	EP	Estimated 36,000 kw capacity. Minor plant.
84:2-8 Konan (Korea)	Fusen Hydro-electric Plant No. 1	On Fusen River (Pujon-gang) (Fusen-ko) 15 miles S of Fusen River Reservoir.	40°21'N 127°34'E	BSU	EP	Key plant in Fusen power development with installed capacity of 128,000 kw.

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SHEETATI
 DATE.....20 June 1945

JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
 NUMERICAL TARGET INDEX

OBJECTIVE AREA 84:2—KONAN (KOREA)—(Continued)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
84:2-9 Konan (Korea)	Fusen Hydro-electric Plant No. 2	Fusen River (Pujong-gang) (Fusen-ko), 3 miles SSE of Fusen Hydro-electric Plant No. 1 (84:2-8).	40°16'N 127°27'E	BSU	EP	Estimated 41,000 kw capacity. Minor plant.
84:2-218 Konan (Korea)	Kumjin River RR Bridge	P'achunjang	39°38'N 127°28'E	BSU	RRT	One line connecting NE and peninsular Korea
84:2-221 Konan (Korea)	Tongsong River RR Bridge	Kanko	39°53'N 127°32'E	BSU	RRT	On line connecting NE and peninsular Korea. Twenty spans.
84:2-223 Konan (Korea)	Yalu River RR Bridge	Manpochin	41°10'N 126°17'E	BSU	RRT	On secondary RR which is one of 5 lines connecting Manchuria and Korea.
84:2-224 Konan (Korea)	Yanghung River RR Bridge	Yanghung	39°33'N 127°15'E	BSU	RRT	On line connecting NE and peninsular Korea. Three 200 ft spans and six 60 ft spans.
84:2-3464 Konan (Korea)	Sinch'ang—Port Area [Shinsho]	On Sea of Japan in NE Korea.	40°08'N 128°28'E	BSU	S	Landing.
84:2-3465 Konan (Korea)	Sinp'o—Port Area [Shinsho]	On Sea of Japan in NE Korea.	40°02'N 128°12'E	BSU	S	Landing; fishing port.
84:2-3466 Konan (Korea)	Kojo—Port Area [Kotei]	On Sea of Japan in E central Korea.	38°58'N 127°54'E	BSU	S	Landing.
84:2-3526 Konan (Korea)	Hungnam—Port Area [Konan]	On Korean Gulf in NE Korea.	39°50'N 127°37'E	BSU	S	Annual capacity about 4,650,000 metric tons. Port for chemicals and general industry products moving to Japan.

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JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
NUMERICAL TARGET INDEX

SHEET **ATI**DATE **20 June 1945****OBJECTIVE AREA 84:3—HEIJO (KOREA)**

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
84:3-59 Heijo (Korea)	Chosen Chemical Industry	On 50-acre site in Junsen City (Sunch'on) approximately 30 miles N of Heijo (P'yong-yang).	39°25'N 125°57'E	BPI	C	Major producer of calcium carbide and nitric acid.
84:3-60 Heijo (Korea)	Japan Explosives Co.	Approximately 3 miles SW of Kaishu (Haeju) (Haijuube) and W of RR leading S from Kaishu to peninsula.	38°02'N 125°41'E	EPI	A	Large plant with several 3 or 4-story concrete buildings. Produces dynamite, percussion caps, fuses and glycerol.
84:3-61 Heijo (Korea)	Heijo Army Arsenal	SW edge of Heijo (P'yongyang) on N bank of Daido River (Taedong-gang) (Daido-ko) and SW of Heijo RR Shops and Yards (84:3-73).	39°00'N 125°44'E	EPI MS	A M	Korean arsenal center; second in size and importance on Asiatic Mainland. Produces light weapons and possibly grenades, bombs and armored vehicles.
84:3-66 Heijo (Korea)	Japan Iron Works, Kenjiho	On N bank of Daido River (Taedong-gang) (Daido-ko), SW edge of Kenjiho (Kyomip'o).	38°44'N 125°37'E	BPI	CIS	Most important iron and steel plant in Korea.
84:3-67 Heijo (Korea)	Chosen Riken Metals Co.	On reclaimed land on N bank of Daido River (Taedong-gang) (Daido-ko) at SW edge of Chinnamp'o.	38°43'N 125°23'E	BPI	NFM	Minor producer of aluminum and alumina, reported expansion of alumina facilities.
84:3-68 Heijo (Korea)	Japan Mining Co. Smelter	At NE edge Chinnamp'o on peninsula extending into Daido River (Taedong-gang) (Daido-ko) tidal flats.	38°44'N 125°26'E	BPI	NFM C	Important producer of lead and low grade zinc. Less important producer of copper. Chemical Co. in same compound produces ammonium sulphate and superphosphates.
84:3-69 Heijo (Korea)	Heijo Army Air Depot	E bank Daido River (Taedong-gang) (Daido-ko) across from Heijo (P'yongyang).	39°02'N 125°47'E	EPI	AC	Aircraft repair. One of the more important air depots on the continent.
84:3-73 Heijo (Korea)	Heijo RR Shops and Yards	In SW Heijo (P'yongyang). Adjoins Heijo Army Arsenal (84:3-61) on NE and Daido River RR Bridges (84:3-91) on N.	39°00'N 125°44'E	BSU BEI	RRT TE	One of 3 largest RR shops in Korea. Primarily freight car repair, but also manufactures rolling stock and other railway equipment. A principal rail center in Korea. On main line connecting Japan, Manchuria and N. China.
84:3-74 Heijo (Korea)	Heijo Shunting Yards	Approximately 1 mile N of Heijo (P'yongyang).	39°03'N 125°44'E	BSU	RRT	One of principal classification yards in Korea. Handles traffic to Chinnampo Port (Chinnamp'o-hang) to Kenjiho (Kyomipo) steel industry and from Manchuria and N. China to Japan.
84:3-75 Heijo (Korea)	Teishu Railroad Workshops	At Teishu (Chongju). I	39°41'N 125°13'E	BSU	RRT	Makes all major repairs.

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SHEETATI
 DATE.....20 June 1945

JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
NUMERICAL TARGET INDEX

OBJECTIVE AREA 84:3—HEIJO (KOREA)—(Continued)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
84:3-76 Heijo (Korea)	Chinnampo Harbor	On Daido River (Taedong-gang) (Daido-ko) 20 miles from its mouth. On N bank of river and S edge of Chinnamp'o.	38°44'N 125°24'E	BSU	S	Cancelled. See Target 84:3-3504.
84:3-77 Heijo (Korea)	Chinnamp'o Coal Depot	In SE Chinnamp'o. On N bank Daido River (Taedong-gang) (Daido-ko). 1/4 mile E of Chinnampo Harbor (Chinnamp'o-hang) (Chinnampo-ko).	38°43'N 125°25'E	BSU	S	Largest coal depot in Korea. Two coal piers and 4 mechanical loaders.
84:3-82 Heijo (Korea)	Onoda Cement Co.	At Shokori (Sunggori) approximately 12 miles E of Heijo (P'yongyang).	38°59'N 125°59'E	BPI	C	1938 capacity in excess of 250,000 tons. Has own steam power plant.
84:3-91 Heijo (Korea)	Daido River Railroad Bridges	SW Heijo (Pyongyang). Extends S across Yokaku Island (Yanggok-to) (Yokaku-to). Joins S end of Heijo RR Shops and Yards (84:3-73).	38°57'N 125°45'E	BSU	RRT	Two single track bridges carrying main An-tung-Fusan (Pusan) line S from Heijo. Of major importance to economic traffic to Japan from Manchuria and N China.
84:3-109 Heijo (Korea)	Chosen Cement Co.	On peninsula extending S from Kaishu (Haeju) (Haijuube).	38°01'N 125°42'E	BPI	C CIS	Largest Korean cement plant accounting for approximately 34% of Korean production. Iron plant in compound produces special steel ingot and cast steel.
84:3-110 Heijo (Korea)	Asano Cement Co.	5 miles ESE of Shariin (Sariwon) about 40 miles S of Heijō (P'yongyang).	38°27'N 125°49'E	BPI	C	Small cement plant with capacity of 195,000 tons.
84:3-211 Heijo (Korea)	Seisen River RR Bridges	At Shinanshu (Sinanju) about 3 miles W of Anshū (Anju).	39°37'N 125°32'E	BSU	RRT	Parallel bridges, 100 yards apart, carrying all traffic between the Mukden (Shen-yang) (Feng-t'ien) and Heijo (P'yongyang) areas and largest part of economic traffic from Manchuria and N China to Japan.
84:3-3481 Heijo (Korea)	Kyomip'o—Port Area [Kenjiho]	On Daido River (Taedong-gang) (Daido-ko) near Yellow Sea in W Central Korea.	38°44'N 125°38'E	BSU	S	Annual capacity about 600,000 metric tons. Steel port.
84:3-3504 Heijo (Korea)	Chinnampo—Port Area	On Yellow Sea in NW Central Korea.	38°44'N 125°24'E	BSU	S	Annual capacity about 1,980,000 metric tons. Has mechanical coal loaders.
84:3-3557 Heijo (Korea)	Yongdangpō Haeju—Port Area [Ryūtōho Kaishu]	On Yellow Sea in W central Korea.	38°00'N 125°42'E	BSU	S	Port for movement of rice and general industry products to Japan.

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JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
 NUMERICAL TARGET INDEX

SHEETATI
 DATE20 June 1945

OBJECTIVE AREA 84:4—GENZAN (KOREA)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
84:4-88 Genzan (Korea)	Chosen Oil Refinery	On S shore of Eiko Bay (Yonghung-man) (Eiko-wan) on E edge of Genzan (Wonsan) (Yuensan)	39°09'N 127°28'E	EPI MS	P P	A major oil storage target. Largest refinery in Korea.
84:4-89 Genzan (Korea)	Genzan Harbor [Wonsan-hang] [Genzan-ko]	On SW shore of Eiko Bay (Yonghung-man) (Eiko-wan). N edge of Genzan (Wonsan) (Yuensan).	39°10'N 127°26'E	BSU	S	Cancelled. See Target 84:4-3509.
84:4-90 Genzan (Korea)	Rising Sun Oil Co. Storage	On W shore Eiko Bay (Yonghung-man) (Eikō-wan) at Bumpyo (Munp'-yong-ni) (Bunhei-ri) approximately 5 miles NW of Genzan (Wonsan) (Yuensan).	39°13'N 127°22'E	MS	P	Has 11 storage tanks, warehouses and can plant. Loading facilities.
84:4-208 Genzan (Korea)	Nichiman Aluminum Co.	3½ mi. NW Genzan (Wonsan).	39°13'N 127°24'E	BPI	NFM	Medium sized aluminum producer, under expansion.
84:4-3467 Genzan (Korea)	Changjon-hang—Port Area [Chōsen-kō]	On Sea of Japan in E central Korea.	38°44'N 128°12'E	BSU	S	Landing, fishing port.
84:4-3509 Genzan (Korea)	Wonsan—Port Area [Genzan] [Yuensan]	On Korean Gulf, Eiko Bay, (Yonghun-man) (Eiko-wan) in NE Korea.	39°10'N 127°26'E	BSU	S	Annual capacity about 3,480,000 metric tons. Oil loading facilities under construction.

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**JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
NUMERICAL TARGET INDEX**

SHEET **ATI**
DATE. **20 June 1945**

OBJECTIVE AREA 84:5—KOREA E (KOREA)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
84:5-112 Korea E (Korea)	Sanchoku Steam Power Plant	Sanchoku (Samch'ok) (Samuchoku). Exact location unknown.	37°26'N 129°10'E	BSU	EP	One of 2 key generating stations in S Korea network. Capacity 50,000 kw with possible expansion.
84:5-113 Korea E. (Korea)	Neietsu Steam Power Plant	On E bank of P'yonch'ong-gang (Heishō-kō) 2 or 3 miles W of Neietsu (Yongwol). Exact location unknown.	37°11'N 128°30'E	BSU	EP	One of 2 key generating stations in S Korea network. Capacity 100,000 kw.
84:5-122 Korea E (Korea)	Kasen Hydro-Electric Plant	Exact location unknown. On Kitakan River (Pukhan-gang) (Hokukan-ko) approximately 65 miles NE of Keijo (Kyongsong) (Seoul).	38°06'N 127°42'E	BSU	EP	Scheduled for completion in 1942 with capacity of 110,000 kw. Part of N Korea network.
84:5-3468 Korea E (Korea)	Taep'o-ri—Port Area [Taihō-ri]	On Sea of Japan in E central Korea.	38°10'N 128°36'E	BSU	S	Landing.
84:5-3469 Korea E (Korea)	Chumonjin—Port Area [Chūmonshin]	On Sea of Japan in E central Korea.	37°54'N 128°50'E	BSU	S	Landing, fishing port.
84:5-3470 Korea E (Korea)	Mukhojin-ni—Port Area [Bokukoshin-ri]	On Sea of Japan in E central Korea.	37°34'N 129°06'E	BSU	S	Landing.
84:5-3471 Korea E (Korea)	P'ohang-dong—Port Area [Hoko-dō]	On Sea of Japan in SE Korea.	36°02'N 129°22'E	BSU	S	Annual capacity about 825,000 metric tons. Fishing port.

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JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
 NUMERICAL TARGET INDEX

SHEETATI
 DATE.20 June 1945

OBJECTIVE AREA 84:6—KEIJO (KOREA)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
84:6-42 Keijo (Korea)	Han River RR Bridges	SW of Keijo (Seoul) (Kyongsong) between Ryuzan (Yongsan) and Eitoho (Yongdungp'o). 1/2 mile W of highway bridge.	37°31'N 126°57'E	BSU	RRT	Two single track bridges on main Antung-Fusan (Pusan) line. A third bridge, double tracked, 100 ft downstream, of major importance to Japan-bound traffic through Korea.
84:6-43 Keijo (Korea)	Ryuzan RR Shops and Yards	S Keijo (Ryuzan) (Yongsan) or Han River (Han-gang) (Kan-ko) 1/2 mile NE of Han River RR bridges. (84:6-42).	37°32'N 126°58'E	BSU BEI	RRT TE	Important rail center, also largest railway repair shops in Korea. Also builds 25 locomotives and 2500 cars annually.
84:6-45 Keijo (Korea)	Jinsen Harbor and Tidal Basin	SW side of Jinsen (Inch'on) City.	37°28'N 126°38'E	BSU	S	Cancelled. See Target 84:6-3517.
84:6-116 Keijo (Korea)	Korea Refining Co.	At Choko (Changhang-ni) (Choko-ri) N bank of Kin River (Koum-gang) (Kin-ko).	36°01'N 126°42'E	BPI	NFM	Only large copper refinery on Asiatic mainland. Annual capacity estimated at 10,000 tons.
84:6-123 Keijo (Korea)	Seihei Hydro-electric Plant	Exact location unknown. On Kitakan River (Pukhang-gang) (Hokukan-ko) approximately 25 miles ENE of Keijo City (Kyongsong) (Seoul).	37°43'N 127°25'E	BSU	EP	Scheduled for completion in 1942 with installed capacity of 63,000 kw. Serves Keijo and N Korea network.
84:6-124 Keijo (Korea)	Suishoku Freight Yards	4 miles W of Keijō (Kyongsong) (Seoul) and 3/4 mile NW of loop in Han River (Han-gang) (Kan-kō).	37°35'N 126°54'E	BSU	RRT	Large new classification yards serving lines from Keijō to Heijō (Pyongyang), Genzan (Wonsan), Fusan (Pusan) and Jinsen (Inch'on).
84:6-207 Keijo (Korea)	Jinsen Army Arsenal	Possibly between Jinsen (Inch'on) and Keijo (Kyongsong) (Seoul); not spotted.	37°31'N 126°45'E	EPI	A	No further information.
84:6-210 Keijo (Korea)	Ryūzan Manufacturing Co.	In Ryūzan (Yongsan), S Keijō. 1/2 mile NE of Ryūzan RR Shops and yards. (84:6-43)	37°32'N 126°59'E	BEI	TE MMT	Important manufacturer of freight cars and railway equipment. Also produces mining and engineering machinery.
84:6-213 Keijo (Korea)	Eitoho Munitions Plant	About 5 miles SW of Keijo (Kyongsong) (Seoul).	37°29'N 126°55'E	EPI MS	A M	Small shell loading and ammunition storage area.
84:6-214 Keijo (Korea)	Tokyo Shibaura Electric Co., Jinsen Plant	On N side of Jinsen (Inch'on) on waterfront.	37°29'N 126°38'E	BEI	MMT	New electrical equipment plant; no information on products.
84:6-216 Keijo (Korea)	Chonyang-ni RR Yards	Chonyang-ni	37°35'N 127°02'E	BSU	RRT	Important RR center.

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SHEETATI
 DATE.....20 June 1945

JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
 NUMERICAL TARGET INDEX

OBJECTIVE AREA 84:6—KEIJO (KOREA)—(Continued)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
84:6-217 Keijo (Korea)	Imgen River RR Bridges	Munsan	37°53'N 126°44'E	BSU	RRT	On main N-S line in a bottleneck section. Eight 200 ft truss spans and two 60 ft girder spans.
84:6-220 Keijo (Korea)	Taejon RR Yards	Taejon	36°18'N 127°35'E	BSU	RRT	Important junction and rail center.
84:6-3517 Keijo (Korea)	Inch'on—Port Area [Jinsen]	On Yellow Sea in W Central Korea.	37°28'N 126°38'E	BSU	S	Annual capacity about 5,115,000 metric tons. Wet dock. Port of Keijo.

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JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
 NUMERICAL TARGET INDEX

SHEET **ATI**
 DATE **20 June 1945**

OBJECTIVE AREA 84:7—FUSAN (KOREA)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
84:7-97 Fusan (Korea)	Fusan Harbor	On E side of Fusan (Pusan) and N side of Makino Island (Mokto) (Makino-to).	35°06'N 129°02'E	BSU	S	Cancelled. See Target 84:7-3456.
84:7-101 Fusan (Korea)	Chinkai Naval Base	W side of Chinkai (Chinhae) and on N shore Fusan Harbor (Pusan-hang) (Fusan-ko)	35°09'N 128°38'E	MS EPI	P A	Minor naval station and mine base. Equipped for minor repairs to destroyers and mine layers. A major oil storage target.
84:7-105 Fusan (Korea)	Fusan Railroad Workshops	On NW shore Fusan Harbor (Pusan-hang) (Pusan-kō) about 1/2 mile N of harbor piers.	35°07'N 129°03'E	BSU BEI	RRT TE	One of three largest Korea shops for locomotive and car repair. Also builds freight cars and possibly railway ferry boats.
84:7-106 Fusan (Korea)	Rakuto River RR Bridges	About 5 miles NW of Waikan (Waegwan).	36°00'N 128°23'E	BSU	RRT	Two parallel single track bridges carrying main An-tung-Fusan (Pusan) line.
84:7-130 Fusan (Korea)	Masan Harbor	At Masan 5 miles NW of Chinkai Naval Base. (84:7-101)	35°12'N 128°34'E	BSU	S	Cancelled. See Target 84:7-3458.
84:7-215 Fusan (Korea)	Makino Island Refinery and Oil Storage	NW corner of Makino Island, (Mok-to), Fusan Harbor (Pusan-hang).	35°06'N 129°03'E	EPI MS	P P	Estimated 117,000 bbls storage capacity. Small oil refinery; about 16 surface tanks.
84:7-222 Fusan (Korea)	Fusan RR Yards	Fusan	35°07'N 129°03'E	BSU	RRT	Terminal yards serving important trans-shipment traffic to Japan through Pusan (Fusan). Round-house and locomotive servicing.
84:7-3456 Fusan (Korea)	Pusan—Port Area [Fusan]	On Korea Strait in SE Korea.	35°06'N 129°02'E	BSU	S	Mainland port nearest to Japan. Annual capacity about 6,194,000 metric tons. Possible small vessel shuttle traffic to Japan.
84:7-3457 Fusan (Korea)	Chinhae—Port Area [Chinkae]	On Korea Strait in SE Korea.	35°08'N 128°40'E	BSU EPI	S A	Naval Station.
84:7-3458 Fusan (Korea)	Masan—Port Area	On Korea Strait in SE Korea.	35°12'N 128°34'E	BSU	S	Annual import capacity about 2,475,000 metric tons. Possible small vessel shuttle traffic to Japan.
84:7-3472 Fusan (Korea)	Kuryongp'o-ri—Port Area [Kyūryūho-ri]	On Sea of Japan in SE Korea.	36°00'N 129°34'E	BSU	S	Landing.
84:7-3473 Fusan (Korea)	Kamp'o-ri—Port Area [Kanho-ri]	On Sea of Japan in SE Korea.	35°48'N 129°30'E	BSU	S	Landing; fishing and trading port.
84:7-3474 Fusan (Korea)	Pango-ri—Port Area [Hōgyo-ri]	On Sea of Japan in SE Korea.	35°29'N 129°26'E	BSU	S	Landing.
84:7-3475 Fusan (Korea)	Ulsan-man—Port Area [Urusan-wan]	On Sea of Japan in SE Korea.	35°30'N 129°24'E	BSU	S	Landing.

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CONFIDENTIAL

SHEETATI
 DATE.....20 June 1945

JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
 NUMERICAL TARGET INDEX

OBJECTIVE AREA 84:7—FUSAN (KOREA)—(Continued)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
84:7-3476 Fusan (Korea)	Changsungp'o-ri—Port Area [Chōshōho-ri]	On Korea Strait in SE Korea.	34°52'N 128°44'E	BSU	S	Anchorage.
84:7-3477 Fusan (Korea)	Chisep'o—Port Area	On Korea Strait in SE Korea.	34°50'N 128°43'E	BSU	S	Anchorage.
84:7-3478 Fusan (Korea)	T'ongyong—Port Area [Toei]	On Korea Strait in SE Korea.	34°51'N 128°26'E	BSU	S	Fishing and trading port; no railroad. Annual capacity about 1,600,000 metric tons.
84:7-3479 Fusan (Korea)	Samch'onp'o—Port Area [Sanzenho]	On Korea Strait in SE Korea.	34°56'N 128°04'E	BSU	S	Landing.

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CONFIDENTIAL

JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
 NUMERICAL TARGET INDEX

SHEET **ATI**
 DATE **20 June 1945**

OBJECTIVE AREA 84:8—KOSHU (KOREA)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
84:8-98 Koshu (Korea)	Reisui Harbor	On E edge of Reisui (Yosu).	34°44'N 127°44'E	BSU	S	Cancelled. See Target 84:8-3459.
84:8-99 Koshu (Korea)	Moppo Harbor	On SE edge of Moppo (Mokp'o) (Mokuho)	34°47'N 126°23'E	BSU	S	Cancelled. See Target 84:8-3460.
84:8-100 Koshu (Korea)	Gunzan Harbor	N side of Gunzan (Kunsan) and on S bank of Kin River (Kum-gang) (Kin-kō) just inside mouth.	36°00'N 126°42'E	BSU	S	Cancelled. See Target 84:8-3510.
84:8-3459 Koshu (Korea)	Yosu—Port Area [Resui]	On East China Sea in S central Korea.	34°44'N 127°44'E	BSU	S	Important for its proximity to Japan. Possible small vessel shuttle traffic. Annual capacity about 1,089,000 metric tons.
84:8-3460 Koshu (Korea)	Mokp'o—Port Area [Moppo]	On Yellow Sea in SW Korea.	34°47'N 126°23'E	BSU	S	Rice port with annual capacity of about 1,089,000 metric tons.
84:8-3480 Koshu (Korea)	Changhang-ni—Port Area [Chōkaku-ri]	Near Yellow Sea in SW Korea.	35°38'N 126°54'E	BSU	S	Port for non-ferrous ore shipments.
84:8-3510 Koshu (Korea)	Kunsan—Port Area [Gunzan]	On Yellow Sea in SW Korea.	36°00'N 126°42'E	BSU	S	Wheat port. Annual capacity about 396,000 metric tons.

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85 INDO-CHINA

JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
 NUMERICAL TARGET INDEX

SHEETATI
 DATE20 June 1945

OBJECTIVE AREA 85:1—INDO-CHINA N (INDO-CHINA)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
The targets in this objective area (85:1) are targets presented in an Air Objective Folder or Interim Report published 15 Nov 1943. They do not reflect additional research by Joint Target Group; therefore the information concerning them is not completely representative of current conditions.						
85:1-14 Indo-China N (Indo-China)	Haiphong Dry Dock	S side Cua Cam River, N edge of Haiphong. Just E of Haiphong Docks (85:1-28)	20°52'N 106°41'E	BSU	S	Floating steel dry dock, length 314 ft.
85:1-16 Indo-China N (Indo China)	Haiphong Cement Plant	SW bank of juncture of Cua Cam River and Coupure De Ha Ly, NW Haiphong.	20°52'N 106°40'E	BPI	C	Only Indo-China cement plant and second largest in Far East.
85:1-18 Indo-China N (Indo-China)	Haiphong Phosphate Plant	SE bank of juncture of Coupure De Ha Ly and Song Tam Bac in W Haiphong.	20°52'N 106°40'E	BPI	C	Sole processing plant for entire output of Tonkin and Annam mining centers.
85:1-19 Indo-China N (Indo-China)	Hanoi Alcohol Distillery	In S Hanoi, approximately 3/4 mi. SE of Hanoi RR Station and Yards. (85:1-49).	21°01'N 105°52'E	BPI	C	Produces 5300 gal. of rice alcohol daily.
85:1-20 Indo-China N (Indo-China)	Hai Duong Alcohol Distillery	In center of town of Hai Duong.	20°57'N 106°20'E	BPI	C	One of largest distilleries with daily production of 6300 gal.
85:1-21 Indo-China N (Indo-China)	Nam Dinh Alcohol Distillery	On N bank of river in SE section of Nam Dinh.	20°25'N 106°10'E	BPI	C	Probably the largest alcohol distillery in Tonkin delta.
85:1-22 Indo-China N (Indo-China)	Thanh Hoa Alcohol Distillery	In town of Ham Rong 2 1/2 mi. NE of Thanh Hoa. Immediately S of Ham Rong RR and Highway Bridge (85:1-55)	19°50'N 105°46'E	BPI	C	Large new distillery.
85:1-23 Indo-China N (Indo-China)	Hanoi Power Plant	In NE Hanoi on E shore of Petit Lake.	21°02'N 105°51'E	BSU	EP	Largest power plant in Tonkin Delta with 22,500 kw capacity.
85:1-24 Indo-China N (Indo-China)	Haiphong Power Plant	S bank Cua Cam River 1 mi E of Haiphong Docks (85:1-28).	20°52'N 106°41'E	BSU	EP	Standby plant for Hanoi. 5500 kw capacity.
85:1-25 Indo-China N (Indo-China)	Hongay Power Plant	On shore 3 mi ESE of Hongay Docks.	20°57'N 107°06'E	BSU	EP	Has 5000 kw capacity. Supplies part of power requirements of adjacent coal fields.
85:1-26 Indo-China N (Indo-China)	Thuong Tin Alcohol Distillery	On W side of highway in town of Thuong Tin, S of Hanoi.	20°53'N 105°50'E	BPI	C	Stage of construction not determined.
85:1-27 Indo-China N (Indo-China)	Vinh Power Plant	Near town of Vinh in or adjacent to match factory compound.	20°53'N 105°50'E	BSU	EP	3450 kw. Serves RR repair shops and yards and neighboring villages.

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SHEETATI
 DATE.20 June 1945

JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX—JAPANESE WAR
 NUMERICAL TARGET INDEX

OBJECTIVE AREA 85:1—INDO-CHINA N (INDO-CHINA)—(Continued)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
85:1-28 Indo-China N (Indo-China)	Haiphong Docks	On S bank of Cua Cam River, NE Haiphong	20°52'N 106°41'E	BSU	S	Accessible to vessels of 21 ft. draft. Berthing for 6 large vessels with usual facilities.
85:1-29 Indo-China N (Indo-China)	Haiphong Coaling Station	On N bank of Cua Cam River across from Haiphong Docks (85:1-28), Haiphong.	20°52'N 106°41'E	BSU	S	Loads bunker coal, usually by lighter.
85:1-30 Indo-China N (Indo-China)	Port Redon	On tip of Port Redon peninsula.	20°59'N 106°46'E	BSU	S	Shipping point for Dong-Trieu coal mines. Accommodates only 1 vessel at a time.
85:1-31 Indo-China N (Indo-China)	Hongay Docks and Loading Facilities	On NW edge of Hongay.	20°57'N 107°05'E	BSU	S	Primarily a coal port, formerly handling more than half million tons per year.
85:1-32 Indo-China N (Indo-China)	Campha Docks and Loading Facilities	W of town of Campha on peninsula.	21°01'N 107°22'E	BSU	S	Handles vessels of 30 ft. draft. Has electric loading devices. Formerly a large coal shipping port.
85:1-35 Indo-China N (Indo-China)	Quang Yen Zinc Smelter	W side of Quang Yen village near confluence of Song Bachdang and Song Chang Rivers.	20°56'N 106°48'E	BPI	NFM	Only zinc smelter in Indo-China. Produces slab zinc for direct shipment to Japan.
85:1-38 Indo-China N (Indo-China)	Cao Bang Tin and Tungsten Smelter	In Town of Cao Bang.	22°40'N 106°15'E	BPI	NFM	Has 3 furnaces which smelt ore from Mt. Pia Quaz, 15 mi. away.
85:1-39 Indo-China N (Indo-China)	Standard Vacuum Oil Storage	On S bank of Cua Cam River approximately 1 mi. W of Haiphong.	20°52'N 106°39'E	MS	P	One of 2 main storage installations in Indo-China. Capacity 180,000 bbls.
85:1-40 Indo-China N (Indo-China)	Texas Oil Storage	W of Haiphong, and adjacent to Standard Vacuum Oil Storage (85:1-39).	20°52'N 106°39'E	MS	P	Warehouse for storage only.
85:1-41 Indo-China N (Indo-China)	N. American Syndicate Oil Storage	W of Haiphong, and S of and adjoining Texas Oil Storage (85:1-40).	20°52'N 106°39'E	MS	P	Extensive warehouses for petroleum storage.
85:1-42 Indo-China N (Indo-China)	Shell Oil Storage	W of Haiphong. Adjoins on W Texas and North American Oil Storages (85:1-40, 41).	20°52'N 106°39'E	MS	P	Tank capacity 87,000 bbls. Also has warehouses and a tin factory.
85:1-43 Indo-China N (Indo-China)	Gialam RR Repair Shops	Across Red River from Hanoi. Just above Gialam Airfield.	21°03'N 105°53'E	BSU	RRT	Second largest in Indo-China, serving 3 RR lines out of Hanoi. Has been bombed and equipment may have been moved to Vinh.
85:1-44 Indo-China N (Indo-China)	Vinh RR Repair Shops	1 mi. E of Vinh.	18°40'N 105°41'E	BSU	RRT	Largest shops in Indo-China. Maintain equipment for Hanoi-Saigon main line, and possibly now for Gialam.
85:1-45 Indo-China N. (Indo-China)	Tourane RR Yards	1/8 mi. W of Tourane.	16°04'N 108°12'E	BSU	RRT	Important for Tourane Port. Has small repair shop and roundhouse.

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JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
 NUMERICAL TARGET INDEX

SHEETATI
 DATE.20 June 1945

OBJECTIVE AREA 85:1—INDO-CHINA N (INDO-CHINA)—(Continued)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
85:1-46 Indo-China N. (Indo-China)	HongaandardshYo RRpsWorks	In W Hongay, adjacent to Hongay Coal Treating Plant	20°57'N 107°05'E	BSU	RRT	Important as service center of Hongay coal mine railway.
85:1-49 Indo-China N. (Indo-China)	Hanoi RR Station and Yards	SW Hanoi 3/4 mi. SW of Petit Lake	21°01'N 105°50'E	BSU	RRT	Marshalling and sorting yard for all Indo-China North RR lines.
85:1-50 Indo-China N. (Indo-China)	Col des Nuages Tunnels	Approximately 12 mi. N of Tourane.	16°13'N 108°07'E	BSU	RRT	Series of vulnerable RR tunnels on steep slopes bordering the sea.
85:1-52 Indo-China N (Indo-China)	Doumer Bridge (Hanoi)	NE Hanoi across Red River.	21°03'N 105°51'E	BSU	RRT	Multi-span bridge 1/2 mile long, furnishing only rail connection between Hanoi and points N and E.
85:1-53 Indo-China N (Indo-China)	Phuly Bridge	Immediately N of Phuly on Hanoi-Saigon main line.	20°32'N 105°55'E	BSU	RRT	Three-span bridge.
85:1-54 Indo-China N (Indo-China)	Haiphong RR Bridge	SW Haiphong, across Song Tam Bac River.	20°52'N 106°40'E	BSU	RRT	300 ft steel bridge connecting Haiphong industrial section with the port.
85:1-55 Indo-China N (Indo-China)	Ham Rong RR and Highway Bridge	Over Song Ma River 2 1/2 miles NE of Thanh Hoa.	19°51'N 105°47'E	BSU	RRT	800 ft iron girder, single span bridge carrying RR and highway traffic.
85:1-56 Indo-China N (Indo-China)	Quang Tri RR and Highway Bridge	Over Han Giang River just SW of Quang Tri.	16°46'N 107°10'E	BSU	RRT	1800 ft concrete and iron girder bridge on Hanoi-Saigon main line.
85:1-57 Indo-China N (Indo-China)	Hue RR Bridge	Over Hue River just S of Hue.	16°27'N 107°34'E	BSU	RRT	Multi-span, 1000 ft long.
85:1-58 Indo-China N (Indo-China)	Tourane Railroad and Highway Bridge	S of Col des Nuages Tunnels (85:1-50) and near Tien Chien.	16°07'N 108°08'E	BSU	RRT	6-span bridge.
85:1-59 Indo-China N (Indo-China)	Quang Ngai Highway Bridge	2 miles WNW of Quang Ngai.	15°07'N 108°50'E	BSU	RRT	Multi-span steel bridge.
85:1-62 Indo-China N (Indo-China)	Pont Tournantou du Canal des Rapides	2 1/8 miles NE of Gialam RR Repair Shops (85:1-43), near Hanoi.	21°05'N 105°55'E	BSU	RRT	650 ft steel bridge, destruction of which would sever rail connections between Lao Kay, Nacham and Haiphong or Hanoi.

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JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX—JAPANESE WAR
 NUMERICAL TARGET INDEX

SHEETATI
 DATE 20 June 1945

OBJECTIVE AREA 85:2—INDO-CHINA S (INDO-CHINA)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
The targets in this objective area (85:2) are targets presented in an Air Objective Folder or Interim Report published in 1944. They do not reflect additional research by Joint Target Group; therefore the information concerning them is not completely representative of current conditions.						
85:2-70 Indo-China S (Indo-China)	Mazet Alcohol Distillery	Between Saigon and Cholon on N bank of Arroyo Chinois at intersection with Canal de Doublement.	10°45'N 106°41'E	BPI	C	One of three largest distilleries in Indo-China. Produces alcohol motor fuel.
85:2-71 Indo-China S (Indo-China)	Binthay Alcohol Distillery	In SW Cholon on N bank of Arroyo Chinois.	10°44'N 106°38'E	BPI	C	Largest distillery in Indo-China. Produces substantial quantities of alcohol motor fuel.
85:2-72 Indo-China S (Indo-China)	Russey Keo Alcohol Distillery	2½ miles N of Phnom Penh on W bank of Tonle Sap River.	11°37'N 104°55'E	BPI	C	Substantial alcohol producer.
85:2-75 Indo-China S (Indo-China)	Hiep Hoa Sugar Refinery	On E bank of East Vaico River about 11 miles NW of Duc Hoa and 28 miles WNW of Saigon.	10°55'N 106°18'E	BPI	C	Produces sugar, rum and substantial amounts of alcohol.
85:2-79 Indo-China S (Indo-China)	Saigon-Cholon Power Plant	Between Saigon and Cholon on N bank of Arroyo Chinois. Opposite island at intersection of Arroyo Chinois and Canal de Derivation.	10°45'N 106°41'E	BSU	EP	32,000 kw capacity. Supplies nearly all power for Saigon and vicinity.
85:2-82 Indo-China S (Indo-China)	Phnom Penh Power Plant	On W bank of Mekong River across Tonle Sap River from Phnom Penh.	11°35'N 104°56'E	BSU	EP	Small Diesel plant; 3500 kw capacity. Only plant in vicinity.
85:2-85 Indo-China S (Indo-China)	Saigon Wharf Area	SW bank of Saigon River, from Arroyo Chinois SE to Canal de Derivation.	10°46'N 106°42'E	BSU MS	S M	Large warehouse and open air storage. Probably military stores.
85:2-86 Indo-China S (Indo-China)	Andre Grillet Foundry	On Blvd Gallieni about ½ mile SW of Saigon RR station.	10°46'N 106°41'E	BEI EPI	MMT LM	20,000 tons monthly of gears, bearings, castings. Aluminum and sheet iron work.
85:2-87 Indo-China S (Indo-China)	FACI Ship Repair and Barge Building Works	On S bank of Arroyo Chinois directly W of 2nd bridge from Saigon River.	10°46'N 106°42'E	BSU BEI BPI	S TE CIS	Barge construction and ship repair. Extensive machine shops. Also bridge building, forgings, castings.
85:2-88 Indo-China S (Indo-China)	Saigon Navy Yard & Arsenal	On W bank of Saigon River in NE Saigon. Just W of Arroyo de L'Avalanche.	10°47'N 106°42'E	EPI	A	Fully equipped yard for repair and small ship construction. Large barracks and warehouse area.

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CONFIDENTIAL

SHEETATI
DATE.20 June 1945

JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX—JAPANESE WAR
NUMERICAL TARGET INDEX

OBJECTIVE AREA 85:2—INDO-CHINA S (INDO-CHINA)—(Continued)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
85:2-89 Indo-China S (Indo-China)	Levallois and Perret Machine Shops	On N bank of Arroyo Chinois at intersection with Canal de Doublement.	10°45'N 106°41'E	BEI EPI	TE MMT A	Barge and bridge construction, possibly munitions.
85:2-91 Indo-China S (Indo-China)	Cam Ranh Bay Naval Base	Cam Ranh Bay.	11°53'N 109°09'E	EPI	A	Largest and best fleet anchorage in Indo-China. RR and ship repair facilities.
85:2-92 Indo-China S (Indo-China)	Phnom Penh Barge Building Works	N of Phnom Penh on W bank Tonle Sap River	11°37'N 104°55'E	BEI	TE	Constructs barges for Mekong River traffic.
85:2-93 Indo-China S (Indo-China)	Shell Oil Storage	On W bank of Nha Be River, 4¾ miles SSE of Saigon Wharf Area (85:2-85)	10°42'E 106°45'E	MS	P	About 15 tanks, also warehouses. Total capacity 168,000 barrels.
85:2-97 Indo-China S (Indo-China)	Bien Hoa RR and Highway Bridges	On Saigon-Hanoi RR line across Donnai River. About 13 miles NE of Saigon.	10°56'N 106°49'E	BSU	RRT	Two bridges, 3/10 mile apart. Steel truss construction on masonry piers.
85:2-98 Indo-China S (Indo-China)	Binh Loi RR & Highway Bridge	Crosses Saigon River on Saigon-Hanoi RR line 1 mile N of Saigon.	10°50'N 106°42'E	BSU	RRT	RR and highway bridge about 850 feet long. Steel trusses on masonry piers.
85:2-100 Indo-China S (Indo-China)	Nha Trang RR Bridge	1½ mile NW of Nha Trang, at Song Cai River crossing.	12°16'N 109°10'E	BSU	RRT	On Saigon-Hanoi RR line. Four steel truss spans, each 165 feet long.
85:2-101 Indo-China S (Indo-China)	Tuy Hoa RR and Highway Bridge	¾ mile SSE of Tuy Hoa. Crosses estuary of Dai Giang River.	13°04'N 109°19'E	BSU	RRT	Longest bridge S of Hanoi; 21 165-foot spans. Highway and RR bridges may be separate and parallel.
85:2-102 Indo-China S (Indo-China)	Pursat RR Bridge	Just S of Pursat on Phnom Penh-Mongkol Borey RR.	12°33'N 103°50'E	BSU	RRT	About 650 feet long. No construction details.
85:2-103 Indo-China S (Indo-China)	Mongkol Borey RR Bridge	At W edge of Mongkol Borey.	13°34'N 103°01'E	BSU	RRT	About 600 feet long. Crosses Mongkol Borey River.
85:2-104 Indo-China S (Indo-China)	Battambang RR Bridge	At S edge of Battambang.	13°05'N 103°12'E	BSU	RRT	About 500 feet long. Crosses Battambang River. No construction details.
85:2-111 Indo-China S (Indo-China)	Mongkol Borey RR Yards and Shops	On S bank of Mongkol Borey River, W of the town.	13°34'N 103°01'E	BSU	RRT	Extensive yards. Shops are small but important to line.
85:2-112 Indo-China S (Indo-China)	Phnom Penh RR Shops and Yards	At W edge of Phnom Penh. Some shops and roundhouse may be 3 miles W of town.	11°35'N 104°55'E	BSU	RRT	Main yards and shops for RR division to Bangkok.
85:2-114 Indo-China S (Indo-China)	Dian RR Shops	8¼ miles NNE of Saigon on spur 1½ miles W of main line.	10°54'N 106°45'E	BSU	RRT	Second largest RR shops in Indo-China South.

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CONFIDENTIAL

JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX—JAPANESE WAR
 NUMERICAL TARGET INDEX

SHEET ATI
 DATE 20 June 1945

OBJECTIVE AREA 85:2—INDO-CHINA S (INDO-CHINA)—(Continued)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
85:2-115 Indo-China S (Indo-China)	Saigon New RR Yards and Shops	At W edge of Saigon, 1 mile NW of Saigon RR Yards and Shops (85:2-116).	10°47'N 106°40'E	BSU	RRT	Largest rail repair shops in Indo-China South. Concrete roundhouses. Extensive freight yards.
85:2-116 Indo-China S (Indo-China)	Saigon RR Yards and Shops	Near Cneter of Saigon; 3/4 mile SSW of double spire cathedral.	10°46'N 106°41'E	BSU	RRT	Extensive sidings and marshalling yards, repair shops at SW side of yard.
85:2-119 Indo-China S (Indo-China)	Nha Trang RR Shops	3 miles W of Nha Trang.	12°15'N 109°09'E	BSU	RRT	Repair shops and fairly extensive yards.
85:2-121 Indo-China S (Indo-China)	S.V.O. Oil Storage	On W bank of Nha Be River 4 1/4 miles SSE Saigon Wharf Area, (85:2-85) at mouth of small river.	10°42'N 106°44'E	MS	P	Sveen outside tanks and some housed. Total capacity 100,000 barrels.
85:2-122 Indo-China S (Indo-China)	Texas Oil Storage	On W bank of Nha Be River about 5 1/4 miles SSE of Saigon Wharf Area. (85:2-85).	10°41'N 106°45'E	MS	P	Eleven tanks, power plant, warehouses. Total capacity 72,000 barrels.

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JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX—JAPANESE WAR
 NUMERICAL TARGET INDEX

SHEETATI
 DATE.....20 June 1945

OBJECTIVE AREA 90:1—KARAFUTO (JAPAN)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
90:1-951 Karafuto (Japan)	Port of Esutoru	NW Coast of Esutoru.	49°05'N 142°02'E	BSU	S	Cancelled. See Target 90:1-3596.
90:1-952 Karafuto (Japan)	Port of Maoka	On SW Coast of Karafuto.	47°03'N 142°03'E	BSU	S	Cancelled. See Target 90:1-3394.
90:1-953 Karafuto (Japan)	Port of Otomari	N edge of Aniwa Bay.	46°38'N 142°46'E	BSU	S	Cancelled. See Target 90:1-3597.
90:1-954 Karafuto (Japan)	Port of Honto	On SW Coast of Karafuto.	46°41'N 141°51'E	BSU	S	Cancelled. See Target 90:1-3395.
90:1-962 Karafuto (Japan)	Synthetic Oil Plant, Naihoru	At Naihoru near Honto. Exact location unknown.	46°49'N 141°50'E	EPI	P	Reported important plant operated by Mitsubishi.
90:1-965 Karafuto (Japan)	Shikuku Pulp Factory	NW edge of Shikuku.	49°14'N 143°07'E	BPI	C	50,000 tons per year of alpha-cellulose pulp, suitable for viscose and gun powder.
90:1-966 Karafuto (Japan)	Otomari Pulp Factory	At Otomari.	46°38'N 142°47'E	BPI	C	Pulp and paper cellulose.
90:1-967 Karafuto (Japan)	Toyohara Pulp Factory	N edge of Toyohara.	46°58'N 142°44'E	BPI	C	Pulp and paper cellulose.
90:1-968 Karafuto (Japan)	Maoka Pulp Factory	Just S of Maoka.	47°02'N 142°02'E	BPI	C	Pulp and paper cellulose.
90:1-969 Karafuto (Japan)	Noda Pulp Factory	Just NE of Noda.	47°27'N 141°59'E	BPI EPI	C A	20,000 tons per year of Alpha-Cellulose. Production includes smokeless powder. Own power house.
90:1-970 Karafuto (Japan)	Ochiai Pulp Factory	Just N of Ochiai.	47°21'N 142°47'E	BPI	C	Pulp and paper cellulose. Daily production 200 tons.
90:1-971 Karafuto (Japan)	Shiritori Pulp Factory	Just N of Shiritori.	48°38'N 142°47'E	BPI	C	Pulp and paper cellulose. Probably largest pulp factory in Far East.
90:1-972 Karafuto (Japan)	Tomarioru Pulp Factory	E edge of Tomarioru.	47°46'N 142°04'E	BPI	C	Alpha-cellulose pulp. Pulp used in manufacture of rayon and smokeless powder. Capacity: 45,000 tons per year.
90:1-973 Karafuto (Japan)	Esutoru Pulp Factory	E end of Esutoru.	49°08'N 142°05'E	BPI	C	Pulp and paper cellulose.
90:1-2039 Karafuto (Japan)	Naibuchi Synthetic Oil Plant	Naibuchi; not spotted.	47°30'N 142°40'E	EPI	P	Small but important.
90:1-3394 Karafuto (Japan)	Maoka—Port Area	On Gulf of Tartary in SW Karafuto.	47°03'N 142°03'E	BSU	S	Ice bound about two months per year.

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SHEETATI
 DATE.....20 June 1945

JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX—JAPANESE WAR
 NUMERICAL TARGET INDEX

OBJECTIVE AREA 90:1—KARAFUTO (JAPAN)—(Continued)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
90:1-3395 Karafuto (Japan)	Honto—Port Area	On Gulf of Tartary in SW Karafuto.	46°41'N 141°51'E	BSU	S	Only ice free port in Karafuto.
90:1-3596 Karafuto (Japan)	Esutoru—Port Area	On Gulf of Tartary in W Central Karafuto.	49°05'N 142°02'E	BSU	S	Coal port.
90:1-3597 Karafuto (Japan)	Otomari—Port Area	On Aniwa Bay in S Karafuto.	46°38'N 142°46'E	BSU	S	Ferry to Wakkanai in Hokkaido from this port.

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JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
NUMERICAL TARGET INDEX

SHEETATI

DATE20 June 1945

OBJECTIVE AREA 90:2—HOKKAIDO N (JAPAN)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
90:2-1048 Hokkaido N (Japan)	Wakkanai Harbor	E of Wakkannai and S of break-water.	45°25'N 141°41'E	BSU	S	Cancelled. See 90:2-3407.
90:2-1049 Hokkaido N (Japan)	Kushiro Synthetic Oil Plant	W Kushiro E bank of mouth of Shin-kushiro River.	43°00'N 144°22'E	EPI	P	Small but important.
90:2-1050 Hokkaido N (Japan)	Takikawa Synthetic Oil Plant	Just S of Takikawa E bank of Ishikari River.	43°32'N 141°54'E	EPI	P	Small but important.
90:2-1541 Hokkaido N (Japan)	Shimizusawa Steam Power Plant	1/2 mile E of Shimizusawa	43°00'N 142°01'E	BSU	EP	Capacity 75,000 kw. One of 3 main Hokkaido plants.
90:2-1542 Hokkaido N (Japan)	Sunagawa Steam Power Plant	NE of Sunagawa.	43°29'N 141°55'E	BSU	EP	Capacity 50,000, possibly 65,000 k.w. One of 3 main Hokkaido plants.
90:2-1543A Hokkaido N (Japan)	Uryu Hydro Plant	8 miles SW of Nayoro, 6 miles ESE of reservoir.	44°17'N 142°29'E	BSU	EP	Capacity 65,000 kw (15,000 kw or less, normal output). Important auxiliary plant.
90:2-1543B Hokkaido N (Japan)	Uryu Hydro Plant Dam	At head of Uryu River, on large reservoir.	44°18'N 142°11'E	BSU	EP	Main dam for largest storage reservoir in home islands.
90:2-1554 Hokkaido N (Japan)	Kushiro Harbor	Kushiro.	42°59'N 144°22'E	BSU	S	Cancelled. See Target 90:2-3598.
90:2-1555 Hokkaido N (Japan)	Nemuro Harbor	Nemuro on Nemuro Bay.	43°20'N 145°35'E	BSU	S	Cancelled. See Target 90:2-3404.
90:2-1556 Hokkaido N (Japan)	Rumoi Harbor	Rumoi.	43°57'N 141°39'E	BSU	S	Cancelled. See Target 90:2-3401.
90:2-1561 Hokkaido N (Japan)	Hokkaido Synthetic Oil Co.	Rumoi, exact location unknown.	43°57'N 141°39'E	EPI BPI	P CIS	Important synthetic oil plant. Also refinery and coke ovens.
90:2-1565 Hokkaido N (Japan)	Abashiri Harbor	Abashiri on Sea of Okhotsk.	44°01'N 144°17'E	BSU	S	Cancelled. See Target 90:2-3405.
90:2-1571 Hokkaido N (Japan)	Kushiro Mill, Oji Paper Co.	NW Kushiro, SW bank juncture of Kyu-Akan and Shin-kushiro Rivers.	43°00'N 144°22'E	BPI	C	Pulp and paper mill.
90:2-1623 Hokkaido N (Japan)	Asahigawa RR Yards	Along SSW edge of Asahigawa.	43°45'N 142°22'E	BSU	RRT	Includes roundhouse and only repair shops in N 2/3 of Hokkaido.
90:2-3401 Hokkaido N (Japan)	Rumoi—Port Area	On sea of Japan in W Central Hokkaido.	43°57'N 141°39'E	BSU	S	Annual capacity about 1,485,000 metric tons. Coal and lumber port. High capacity coal loading equipment. Important to Honshu coal supply.
90:2-3402 Hokkaido N (Japan)	Biroo—Port Area	On Pacific Ocean in S Central Hokkaido.	42°17'N 143°19'E	BSU	S	Annual capacity about 300,000 metric tons. Fishing port.

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SHEETATI
 DATE.20 June 1945

JOINT TARGET GROUP, WASHINGTON, D. C.
 AIR TARGET INDEX — JAPANESE WAR
 NUMERICAL TARGET INDEX

OBJECTIVE AREA 90:2—HOKKAIDO N (JAPAN)—(Continued)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
90:2-3403 Hokkaido N (Japan)	Hanasaki—Port Area	On Pacific Ocean in E Central Hokkaido.	43°17'N 145°35'E	BSU	S	Annual capacity about 105,000 metric tons. Light-erage port.
90:2-3404 Hokkaido N (Japan)	Nemuro—Port Area	On Nemuro Bay in E Central Hokkaido.	43°20'N 145°35'E	BSU	S	Annual capacity about 105,000 metric tons. Em-barkation point to Kurile Islands.
90:2-3405 Hokkaido N (Japan)	Abashiri—Port Area	On Sea of Okhotsk in N Central Hok-kaido.	44°01'N 144°17'E	BSU	S	Annual capacity about 885,000 metric tons. Fishing and lumber port.
90:2-3406 Hokkaido N (Japan)	Mombetsu—Port Area	On Sea of Okhotsk in N Central Hok-kaido.	44°21'N 143°22'E	BSU	S	Annual capacity about 495,000 metric tons. Fishing port.
90:2-3407 Hokkaido N (Japan)	Wakkanai—Port Area	N tip of Hok-kaido on Sea of Japan.	45°25'N 141°41'E	BSU	S	Annual capacity about 990,000 metric tons. Fishing and lumber port; ferry to Otomari on Karafuto.
90:2-3408 Hokkaido N (Japan)	Mashike—Port Area	On Sea of Japan in W Central Hok-kaido.	43°51'N 141°32'E	BSU	S	Annual capacity about 105,000 metric tons. Light-erage port.
90:2-3598 Hokkaido N (Japan)	Kushiro—Port Area	On Pacific Ocean in SE Hokkaido.	42°58'N 144°22'E	BSU	S	Annual capacity about 1,515,000 metric tons. Me-chanical coal loading equipment. Important to Honshu coal supply.

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JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX—JAPANESE WAR
 NUMERICAL TARGET INDEX

SHEET **ATI**
 DATE **20 June 1945**

OBJECTIVE AREA 90:3—MURORAN (JAPAN)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
90:3-378 Muroran (Japan)	Nihon Steel Co.	On Muroran Bay 1 mile E of Muroran	42°19'N 141°00'E	BPI EPI	CIS A	One of 3 main plants of leading private ordnance producer. Makes armor plate and naval guns. Produces own special steel.
90:3-379 Muroran (Japan)	Wanishi Iron Works	On E shore of Uchiura Bay	42°20'N 141°00'E	BPI	CIS	Ranks 3rd in Empire in pig iron capacity.
90:3-381 Muroran (Japan)	Muroran Harbor Facilities	On S Central shore of Uchiura Bay.	42°20'N 140°59'E	BSU	S	Cancelled. See Target 90:3-3590.
90:3-985 Muroran (Japan)	Ebetsu Power Plant	NE edge of Ebetsu on S bank of Ishikari River.	43°07'N 141°34'E	BSU	EP	Capacity 50,000 kw. One of 3 main Hokkaido plants.
90:3-988 Muroran (Japan)	Mitsubishi Coal Liquefaction Plant	On E side of Muroran Harbor just NE of the Wanishi Iron Works (90:3-379).	42°20'N 141°01'E	EPI	P	Small but important synthetic oil plant.
90:3-990 Muroran (Japan)	Sapporo Shops of I.G.R.	One NE edge of Sapporo about 1/2 mile N of Toyohira River.	43°04'N 141°23'E	BSU BEI	RRT TE	One of largest RR repair and rolling stock building shops in Japan.
90:3-992 Muroran (Japan)	Otaru Harbor	Breakwater enclosed area along entire E side of Otaru.	43°12'N 141°01'E	BSU	S	Cancelled. See Target 90:3-3593.
90:3-1027 Muroran (Japan)	Nippon Oil Refinery, Karugawa	At Karugawa opposite RR station.	43°07'N 141°15'E	EPI	P	Annual capacity, 132,000 barrels.
90:3-1551 Muroran (Japan)	Tomakomai Pulp and Paper Mill and Power Plant.	Tomakomai, surrounding RR station.	42°38'N 141°36'E	BSU	EP	Oji's largest mill. Steam power plant, 25,000 kw.
90:3-1552 Muroran (Japan)	Chitose Power Plant No. 1	S bank Chitose River 2 1/4 miles NE of Chitose River outlet in Lake Shikotsu.	42°47'N 141°27'E	BSU	EP	Hydro, 20,000 kw.
90:3-1562 Muroran (Japan)	Yubari Coal Mine	NE edge of Yubari.	43°04'N 141°59'E	EPI BPI	P CIS	Largest coal mine in Hokkaido and second largest in Japan. Possible coal liquefaction plant. Coke ovens and by-products plant.
90:3-1563 Muroran (Japan)	Mitsubishi Bibai Coal Mine	AT Bibai-Tanzan about 8 miles W of Bibai.	43°19'N 141°59'E	EPI BPI	P CIS	Second largest coal producer in Hokkaido. Possible coal liquefaction plant and probable coke ovens.
90:3-1564 Muroran (Japan)	Iwamizawa Synthetic Oil Plant	NW Iwamizawa.	43°12'N 141°46'E	EPI	P	Reported small synthetic oil plant.
90:3-1572 Muroran (Japan)	Ebetsu Mill, Oji Paper Co.	NW Ebetsu at junction of Ishikari and Ebetsu Rivers.	43°07'N 141°33'E	BPI	C	Pulp and paper. Own power plant.
90:3-1683 Muroran (Japan)	Muroran Dockyard	Reported in Wanishi section of Muroran.	42°20'N 140°59'E	BEI BSU	TE S	One or more drydocks—10,000 ton capacity reported.

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SHEETATI
 DATE20 June 1945

JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
 NUMERICAL TARGET INDEX

OBJECTIVE AREA 90:3—MURORAN (JAPAN)—(Continued)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
90:3-3590 Muroran (Japan)	Muroran—Port Area	On Uchiura Bay in SW Hokkaido.	42°20'N 140°59'E	BSU	S	Annual capacity about 3,030,000 metric tons. Steel products port, with mechanical coal loading equipment. Of major importance to Honshu coal supply.
90:3-3593 Muroran (Japan)	Otaru—Port Area	On Ishikari Bay in W Central Hokkaido	43°12'N 141°01'E	BSU	S	Annual capacity about 2,580,000 metric tons. Mechanical coal loading equipment. Of major importance to Honshu coal supply.
90:3-3599 Muroran (Japan)	Iwanai—Port Area	On Sea of Japan in SW Hokkaido.	42°59'N 140°31'E	BSU	S	Annual capacity about 495,000 metric tons. Light-erage port.

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JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
 NUMERICAL TARGET INDEX

SHEET **ATI**
 DATE **20 June 1945**

OBJECTIVE AREA 90:4—HAKODATE (JAPAN)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
90:4-974 Hakodate (Japan)	Hakodate Dockyard	On W side of Hakodate Harbor at S end of break-water.	41°46'N 140°42'E	BEI BSU EPI BPI	TE S A CIS	Facilities sufficient for repair of submarines, destroyers and cruisers as well as merchant vessels. Also builds small wooden vessels. Possible small pig iron and steel production.
90:4-975 Hakodate (Japan)	Western Wharf & Warehouses	On SW side of Hakodate Harbor	41°46'N 140°43'E	BSU MS	S P	Wharf 900-feet by 900-feet. 3 small oil tanks.
90:4-976 Hakodate (Japan)	Eastern Wharves & Warehouses	SE side of Hakodate Harbor	41°46'N 140°43'E	BSU	S	Congested rectangular area 2400-feet by 900-feet.
90:4-977 Hakodate (Japan)	Imperial Government Railroad Wharves	E side of Hakodate Harbor	41°46'N 140°44'E	BSU	S RRT	Area 900-ft by 2500 feet includes train-ferry terminus, wharves, warehouses, RR station and yards. A major transportation bottleneck and one of the most important transportation targets in Japan. See Target 90:4-3512.
90:4-979 Hakodate (Japan)	Goryokaku RR Shops	Just N of Hakodate near coast	41°48'N 140°44'E	BSU	RRT	With Sapparo Shops of IGR (90:3-990), one of two most important RR repair shops in Hokkaido.
90:4-980 Hakodate (Japan)	Fuel Oil Storage (Hakodate)	On E side of Hakodate Harbor just N of the Imperial Gov't RR Wharves (90:4-977)	41°47'N 140°44'E	MS	P	Reported greatly enlarged with reinforced concrete shelter roof.
90:4-983 Hakodate (Japan)	Hokkai Cement Plant (Asano Portland Cement Co.)	Taniyoshi, On NW shore of Hakodate Bay.	41°49'N 140°38'E	BPI	C	Only large cement plant in Hokkaido.
90:4-3409 Hakodate (Japan)	Esashi—Port Area	On Sea of Japan in S Hokkaido.	41°52'N 140°07'E	BSU	S	Annual capacity about 105,000 metric tons. Lighter-age port.
90:4-3512 Hakodate (Japan)	Hakodate—Port Area	On Tsugaru Strait in SW Hokkaido.	41°46'N 140°43'E	BSU	S	Annual capacity about 3,960,000 metric tons. Terminus of rail ferry from Aomori. Includes Target 90:4-977

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**JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
NUMERICAL TARGET INDEX**

SHEETATI
DATE.20 June 1945

OBJECTIVE AREA 90:5—AOMORI (JAPAN)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
90:5-993 Aomori (Japan)	Aomori Harbor and RR Ferry Piers	S side of Aomori Bay.	40°50'N 140°45'E	BSU	S RRT	Terminus of Hakodate-Aomori RR car ferry and shuttle route. A major transportation bottleneck and one of the most important transportation targets in Japan. See Target 90:5-3585.
90:5-995 Aomori (Japan)	Nonai Oil Storage	SE side of Aomori Bay about 5 miles NE of Aomori on Tohoku mainline.	40°52'N 140°50'E	EPI	P	Reported capacity: 210,000 barrels and facilities for making low grade gasoline.
90:5-996 Aomori (Japan)	Ominato Naval Base and Air Station	W side of Ominato Ko and S of town of Ominato.	41°15'N 141°09'E	MS EPI	P A	Major oil storage target scattered over area 2 miles inland. Most important Jap naval base N of central Honshu.
90:5-997 Aomori (Japan)	Aomori RR Yards	About 1 mile S of Aomori Harbor.	40°49'N 140°45'E	BSU	RRT	At junction of two Northern Honshu mainline RRs. Serves Aomori-Hakodate ferry.
90:5-1557 Aomori (Japan)	Nitto Chemicals Co.	NW Hachinohe, on S bank and near mouth of Mabechi River.	40°32'N 141°31'E	BPI	NFM	Minor aluminum plant, integrated with an alumina plant.
90:5-3556 Aomori (Japan)	Hachinohe—Port Area	On Pacific Ocean in NE Honshu	40°32'N 141°32'E	BSU	S	Annual capacity about 214,000 metric tons. Fishing and industry port.
90:5-3585 Aomori (Japan)	Aomori—Port Area	On Aomori Bay on N end of Honshu	40°50'N 140°45'E	BSU	S	Annual capacity about 870,000 metric tons. Terminus of rail ferry from Hakodate. See Target 90:4-977.
90:5-3592 Aomori (Japan)	Ominato—Port Area	In Muntsu Bay in N Honshu	41°15'N 141°09'E	BSU EPI	S A	Naval Station.

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JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
 NUMERICAL TARGET INDEX

SHEETATI
 DATE.20 June 1945

OBJECTIVE AREA 90:6—AKITA (JAPAN)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
90:6-809 Akita (Japan)	Kosaka Copper Smelter and Refinery	Kosaka 1¼ miles from open pit mine.	40°20'N 140°45'E	BPI	NFM	No further information.
90:6-1066 Akita (Japan)	Nippon Oil Co. Refinery	NW of Akita, N bank of mouth of Omono River.	39°45'N 140°04'E	EPI MS	P P	Processes crude from nearby fields. Estimated capacity 37% of Inner Zone total and greatly in excess of local production. Large oil storage reported.
90:6-1067 Akita (Japan)	Funakawa Oil Refinery	S edge of Funakawa	39°52'N 139°51'E	EPI	P	Refines crude oil from Akita Field. Small.
90:6-1068 Akita (Japan)	Tsuchizaki RR Shops	NW of Akita. E edge of Tsuchizaki.	39°45'N 140°05'E	BSU	RRT	Main maintenance and repair shops for Ou RR.
90:6-1899 Akita (Japan)	Akita Freight Yards	At Akita	39°42'N 140°08'E	BSU	RRT	Handles southbound movement of coal, petroleum and imports entering ports of Tsuchizaki and Funakawa.
90:6-3416 Akita (Japan)	Kamo—Port Area	On Sea of Japan in NW Honshu.	38°46'N 139°44'E	BSU	S	Fishing Port.
90:6-3507 Akita (Japan)	Funakawa—Port Area	On the Sea of Japan in NW Honshu.	39°53'N 139°51'E	BSU	S	Annual capacity about 330,000 metric tons. Oil and rice port.
90:6-3569 Akita (Japan)	Tsuchizaki—Port Area	On Sea of Japan in NW Honshu.	39°45'N 140°04'E	BSU	S	Annual capacity about 115,000 metric tons. Oil port. Port of Akita.
90:6-3577 Akita (Japan)	Sakata—Port Area	On Sea of Japan in NW Honshu.	38°55'N 139°50'E	BSU	S	Annual capacity about 214,000 metric tons. Coastal traffic port.

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JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
 NUMERICAL TARGET INDEX

SHEETATI
 DATE.20 June 1945

OBJECTIVE AREA 90:7—MORIOKA (JAPAN)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
90:7-1074 Morioka (Japan)	Morioka RR Yards and Shops	SW of Morioka at juncture of Shizukuishi and Kitakami Rivers.	39°42'N 141°08'E	BSU	RRT	Yards at junction of Taihoku and E-W RR Lines, also divisional maintenance and repair of locomotives and rolling stock.
90:7-1654 Morioka (Japan)	Matsuo Sulphur Refinery	At Matsuo about 18 miles NW of Morioka	39°56'N 140°57'E	BPI	C	Largest sulphur mine and refinery in Japan.
90:7-1759 Morioka (Japan)	Kokusan Light Metals Industry	At or near Kurosawajiri.	39°17'N 141°07'E	BPI	NFM	Producer of alumina.
90:7-1898 Morioka (Japan)	Iwaki Cement Co.	On E bank of Niita River, about 1¼ miles from mouth.	40°31'N 141°32'E	BPI	C	Large producer of cement

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JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
 NUMERICAL TARGET INDEX

SHEET **ATI**
 DATE **20 June 1945**

OBJECTIVE AREA 90:8—KAMAISHI (JAPAN)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
90:8-189 Kamaishi (Japan)	Japan Iron Works, Kamaishi	On S bank and near mouth of Owatari River, Kamaishi.	39°16'N 141°53'E	BPI	CIS	Ranks 5th in iron and steel capacity in Jap empire. Probably among first 3 in current Japanese pig iron production.
90:8-1792 Kamaishi (Japan)	Tohoku Cement Co.	Across inlet of Ofunato Bay, opposite Ofunato town.	39°04'N 141°45'E	BPI	C	Annual capacity 360,000 metric tons.
90:8-3411 Kamaishi (Japan)	Ofunato—Port Area	In NE Honshu.	39°04'N 141°43'E	BSU	S	Annual capacity about 429,000 metric tons. Timber and cement port.
90:8-3520 Kamaishi (Japan)	Kamaishi—Port Area	On Pacific Ocean in NE Honshu.	39°16'N 141°53'E	BSU	S	Annual capacity about 429,000 metric tons. Steel port.
90:8-3564 Kamaishi (Japan)	Miyako—Port Area	On Pacific Ocean in NE Honshu.	39°38'N 141°59'E	BSU	S	Annual capacity about 297,000 metric tons. Fishing and lumber port.

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JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
NUMERICAL TARGET INDEX

SHEET **ATI**
 DATE. **20 June 1945**

OBJECTIVE AREA 90:9—NIIGATA (JAPAN)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
90:9-998 Niigata (Japan)	Niigata Iron Works, Plant No. 1	In northern Niigata on W bank of Shinano River about 1 mile SSW of tip of W breakwater.	37°56'N 139°04'E	BEI	MMT TE	Major Jap machine tool plant, products used in manufacture of aircraft engines and ordnance.
90:9-999 Niigata (Japan)	Niigata Iron Works, Plant No. 2	In northern Niigata on E bank of Shinano River directly across river from Plant No. 1 (90:9-998).	37°56'N 130°04'E	BEI	MMT	Produces complete line of machine tools.
90:9-1000 Niigata (Japan)	Nippon Oil Refinery	On SW side of Niigata, just W of Niigata RR Yards (90:9-1023).	37°55'N 139°05'E	EPI MS	P P	Processes crude from nearby fields. Refining capacity, 2% of Inner Zone. Storage capacity, 440,000 bbls.
90:9-1003 Niigata (Japan)	Japan Light Metals Co.	Just S of Niigata on E bank of Shinano River about 3½ miles SSW of tip of W breakwater.	37°55'N 139°03'E	BPI	NFM	One of 14 most important aluminum plants.
90:9-1012 Niigata (Japan)	Niigata Oil Storage No. 1	N edge of Niigata on E bank of mouth of Shinano River.	37°57'N 139°05'E	MS	P	Major oil storage target.
90:9-1023 Niigata (Japan)	Niigata RR Yards	In eastern part of Niigata just NW of Nippon Oil Refinery (90:9-1000).	37°55'N 139°05'E	BSU	RRT	Serves Niigata industry and important imports of coastal trade from the mainland and Hokkaido. New yard under construction May 1945.
90:9-1101 Niigata (Japan)	Electro-Chemical Industry, Aomi Plant	1 mile S of Aomi on Aomi River.	37°01'N 137°48'E	BPI	C	One of 2 largest carbide plants in Japan. Precise products uncertain.
90:9-1536 Niigata (Japan)	Showa Fertilizer Co., Kanose Plant	1/8 mile N of Kanose RR station.	37°42'N 139°29'E	BPI	C	Major carbide plant. Also nitrogen fixation, acetone and other carbide derivatives.
90:9-1588 Niigata (Japan)	Shingo Hydro Plant	Agano River just N of Shiotsubo.	37°37'N 139°44'E	BSU	EP	Capacity 51,500 kw (23,000 kw dry season). Secondary plant in Tokyo network.
90:9-1589 Niigata (Japan)	Toyomi Hydro Plant	Agano River, 4¾ miles E of Kanose.	37°42'N 139°34'E	BSU	EP	Capacity 53,000 kw (24,000 kw dry season). Secondary plant in Tokyo network.
90:9-1590 Niigata (Japan)	Kanose Hydro Plant	Agano River, ¾ mile NW of Kanose.	37°42'N 139°28'E	BSU	EP	Capacity 45,000 kw (20,000 kw dry season). Secondary plant in Tokyo network.
90:9-1592 Niigata (Japan)	Shinano Hydro Plant	Shinano River, 8 miles SSE of Senju and Senju Hydro Plant (90:9-1593).	37°03'N 138°41'E	BSU	EP	Largest hydro plant in Japan, one of 6 key generating stations in Tokyo network. Capacity 185,000 kw. (110,000 kw dry season).
90:9-1593 Niigata (Japan)	Senju Hydro Plant	Senju on Shinano River.	37°09'N 138°45'E	BSU	EP	2d largest hydro plant in Japan, one of 6 key generating stations in Tokyo network. Capacity 150,000 kw.

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SHEETATI
 DATE.....20 June 1945

JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX—JAPANESE WAR
 NUMERICAL TARGET INDEX

OBJECTIVE AREA 90:9—NIIGATA (JAPAN)—(Continued)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
90:9-1649 Niigata (Japan)	Nippon Oil Refinery, Kashiwazaki	S edge Kashiwazaki, on N side of main RR just E of Station.	37°22'N 138°34'E	EPI MS	P P	Processes crude from nearby fields. Estimated refining capacity 3% of Inner Zone capacity. Storage capacity 229,000 barrels.
90:9-1651 Niigata (Japan)	Nippon Stainless Steel, Naoetsu Plant	NE Naoetsu near coast and just W of Shinetsu Nitrogen Fertilizer Co., Naoetsu Plant (90:9-1667).	37°11'N 138°16'E	BPI	CIS	Manufacture stainless steel tubes from its own steel production.
90:9-1656 Niigata (Japan)	Tsugami-Atagi Manufacturing Co.	On N edge of Nagaoka.	37°28'N 138°51'E	BEI	MMT	Major Jap machine tool plant. Thread and screw grinders for manufacture of aircraft engines and ordnance.
90:9-1659 Niigata (Japan)	Niigata Iron Works, Kashiwazaki Plant	S Kashiwazaki, N of main RR and just W of Station.	37°22'N 138°33'E	BEI	MMT	Built to produce machinery for mining and chemical industries. May be making machine tools.
90:9-1660 Niigata (Japan)	Niigata Iron Works, Nagaoka Plant	NNW section of Nagaoka, just N of Osaka Machinery Co. Plant No. 1 (90:9-1661).	37°27'N 138°51'E	BEI	MMT	New plant with specialized machinery. Reported an important machine tool producer, but no definite information available.
90:9-1661 Niigata (Japan)	Osaka Machinery Co., Plant No. 1	NNW section of Nagaoka, just E of Nishi River.	37°28'N 138°51'E	BEI EPI	MMT AC	Produces machine tools and possibly aircraft components. No information on type and volume of production.
90:9-1662 Niigata (Japan)	Osaka Machinery Co., Plant No. 2	N Nagaoka, W of RR.	37°28'N 138°52'E	BEI EPI	MMT AC	Produces machine tool and possibly aircraft components, but no definite information available.
90:9-1664 Niigata (Japan)	Tokyo-Shibaura Electric Co., Oguni Plant	At Oguni, about 35 miles NE of Niigata City.	38°04'N 139°44'E	BPI EPI	CIS LM	New plant. Exact products uncertain but reported making steel alloys, tungsten steel, molybdenum steel and carbon rods. Also light electrical equipment.
90:9-1667 Niigata (Japan)	Shinetsu Nitrogen Fertilizer Co., Naoetsu Plant	NE Naoetsu, W of RR and N of Hokura River.	37°11'N 138°16'E	BPI	C CIS	Major calcium cyanamide plant, producing carbide, nitrogen fixation and some magnesium, also ferro alloy production.
90:9-1668 Niigata (Japan)	Riken Heavy Industry, Kashiwazaki Plants	NW section of Kashiwazaki.	37°22'N 138°34'E	BEI EPI BPI	MMT LM CIS	Three probably integrated plants producing steel, lathes, grinding and milling machines, piston rings and gauges.
90:9-1669 Niigata (Japan)	Riken Heavy Industry, Nagaoka Plants	About 1 mile S of Nagaoka on W side of RR.	37°25'N 138°51'E	BEI BPI	MMT CIS	2 adjoining plants, manufacturing steel castings, boilers, die castings and charcoal engines.
90:9-1670 Niigata (Japan)	Niigata Harbor	On E side of mouth of Shinano River at Niigata City.	37°57'N 139°04'E	BSU	S	Cancelled. See Target 90:9-3541.
90:9-2050 Niigata (Japan)	Yamasato Hydro Plant	On Agano River	37°36'N 139°41'E	BSU	EP	Capacity 33,000 kw. capacity. Minor plant.
90:9-2067 Niigata (Japan)	Inagawa Hydro Plant	On Tadami River.	37°23'N 139°28'E	BSU	EP	Capacity 24,000 kw. capacity. Minor plant.
90:9-3417 Niigata (Japan)	Ryoze—Port Area	On Ryoze Bay on Sada Island in Sea of Japan.	38°05'N 138°26'E	BSU	S	Annual capacity about 165,000 metric tons. Fish, oil, rice port of Sado Shima.

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JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX—JAPANESE WAR
 NUMERICAL TARGET INDEX

SHEETATI
 DATE.20 June 1945

OBJECTIVE AREA 90:9—NIIGATA (JAPAN)—(Continued)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
90:9-3541 Niigata (Japan)	Niigata—Port Area	On Sea of Japan in N Central Honshu.	37°56'N 139°04'E	BSU	S	Annual capacity about 1,500,000 metric tons. Oil and chemicals port, also embarkation. Of major importance in May 1945 for import and coastwise traffic.
90:9-3576 Niigata (Japan)	Naoetsu—Port Area	On Sea of Japan in N Central Honshu.	37°11'N 138°14'E	BSU	S	Annual capacity about 214,000 metric tons. Port of Takada.

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JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX—JAPANESE WAR
 NUMERICAL TARGET INDEX

SHEET ATI
 DATE 20 June 1945

OBJECTIVE AREA 90:10—FUKUSHIMA (JAPAN)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
90:10-881 Fukushima (Japan)	Inawashiro Hydro Plant No. 1	Nippashi River about 2 miles NW of Lake Inawashiro.	37°32'N 140°00'E	BSU	EP	37,000 kw capacity. Secondary plant in Tokyo network.
90:10-900 Fukushima (Japan)	Inawashiro Hydro Plant No. 2	Nippashi River about 3 miles NW of Lake Inawashiro and 1 mile W NW of Plant No. 1 (90:10-881).	37°33'N 139°59'E	BSU	EP	26,000 kw capacity. Secondary plant in Tokyo network.
90:10-901 Fukushima (Japan)	Inawashiro Power Dev. Plant No. 3	Nippashi River.	37°34'N 139°57'E	BSU	EP	21,000 kw capacity. Minor plant.
90:10-902 Fukushima (Japan)	Inawashiro Power Dev. Plant No. 4	Nippashi River.	37°33'N 140°00'E	BSU	EP	Estimated 33,000 kw capacity. Secondary plant in Tokyo network.
90:10-1077 Fukushima (Japan)	Fukushima RR Yards	W Fukushima.	39°45'N 140°28'E	BSU	RRT	Freight yards at junction of two N Honshu main lines.
90:10-1088 Fukushima (Japan)	Japan Refining Company	SE outskirts of Koriyama 1/4 mile E NE of Koriyama RR Shops (90:10-1655).	37°23'N 140°24'E	BPI	C	Probably large phosphorous plant but type and volume of war materials is uncertain.
90:10-1104 Fukushima (Japan)	Nagamachi Marshalling Yards	2 miles S of Sendai at Nagamachi.	38°13'N 140°53'E	BSU	RRT	Largest marshalling yards in N Honshu, near junction of N-S and trans-island lines. On Tohoku Main Line.
90:10-1606 Fukushima (Japan)	Akimoto Hydro Plant	Akimoto Lake.	37°39'N 140°06'E	BSU	EP	Estimated 48,000 kw capacity. Seasonal plant.
90:10-1607 Fukushima (Japan)	Horai Hydro Plant	3/8 mile E of Abukuma River, 4 1/2 miles SW of Fukushima.	37°41'N 140°30'E	BSU	EP	39,000 kw (13,000 kw dry season). Primarily serving Koriyama, Fukushima and Sendai regions.
90:10-1655 Fukushima (Japan)	Koriyama RR Shops	S edge of Koriyama on E side of RR.	37°23'N 140°23'E	BSU	RRT	One of main Imperial Government Railway repair shops with facilities for repairing locomotives and rolling stock.
90:10-1658 Fukushima (Japan)	Northeast Aluminum Plant (Nichiman Aluminum Co.)	NE edge of Koriyama E of RR and just S of Ose River.	37°24'N 140°24'E	BPI	NFM	Small aluminum plant.
90:10-1665 Fukushima (Japan)	Shinagawa Manufacturing Plant	NW Fukushima City just N of RR junction.	37°46'N 140°28'E	EPI	AC A	One of plants of company which is important producer of varied line of ordnance and aircraft components.
90:10-1666 Fukushima (Japan)	Nippon Soda, Odera Refinery	S of Odera, 1/4 mile SW of RR Station.	37°33'N 139°59'E	BPI	NFM	Large zinc refinery and smelter, with capacity of about 15% of Japanese total. Believed operating at less than half capacity.
90:10-1671 Fukushima (Japan)	Government Aircraft Parts Plant	About 2 miles E of Sendai and 1 mile NE of Airport.	38°16'N 140°55'E	EPI	AC	Reported large new plant producing aircraft parts. Exact components unknown.
90:10-2025 Fukushima (Japan)	Hodogaya Tetraethyl Lead, Koriyama Plant	In or near Koriyama; exact identity unknown.	37°58'N 140°23'E	EPI BPI	P C	Reported major source of Jap tetraethyl lead.

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SHEETATI
 DATE.20 June 1945

JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
 NUMERICAL TARGET INDEX

OBJECTIVE AREA 90:10—FUKUSHIMA (JAPAN)—(Continued)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
90:10-2063 Fukushima (Japan)	Onogawa Hydro Plant	On Ono River.	37°39'N 140°07'E	BSU	EP	26,000 kw capacity. Minor plant.
90:10-3410 Fukushima (Japan)	Shiogama—Port Area	On Ishinomaki Bay in NW Honshu.	38°19'N 141°02'E	BSU	S	Annual capacity about 1,518,000 metric tons. Important for coastal traffic to Honshu from Hokkaido.
90:10-3415 Fukushima (Japan)	Ishinomaki—Port Area	On Ishinomaki Bay in NE Honshu.	38°25'N 141°19'E	BSU	S	Annual capacity about 115,000 metric tons. Fishing port.

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JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
 NUMERICAL TARGET INDEX

SHEETATI
 DATE.20 June 1945

OBJECTIVE AREA 90:11—TOYAMA (JAPAN)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
90:11-861 Toyama (Japan)	Nichiman Aluminum Co.	S of Higashi-Iwase, 1 mile S of river mouth.	36°45'N 137°13'E	BPI	NFM	One of 14 most important aluminum plants, also an alumina plant with expansion in the latter reported.
90:11-862 Toyama (Japan)	Higashi-Iwase Harbor	Higashi-Iwase, Toyama Bay, mouth of Jintsu River.	36°45'N 137°14'E	BSU	S	Cancelled. See Target 90:11-3587.
90:11-866 Toyama (Japan)	Nippon Soda Co., Aluminum Plant	SE bank Koyabe River about 3 miles from mouth and 1 mile N of Takaoka.	36°46'N 137°02'E	BPI	NFM	One of 14 most important aluminum plants in Jap empire, integrated with an alumina plant.
90:11-867 Toyama (Japan)	Fushiki Harbor	Fushiki, mouth of Koyabe River on Toyama Bay.	36°48'N 137°04'E	BSU	S	Cancelled. See Target No. 90:11-3586.
90:11-870 Toyama (Japan)	Nanao Harbor	Nanao on Nan Bay.	37°03'N 136°58'E	BSU	S	Cancelled. See Target 90:11-3591.
90:11-871 Toyama (Japan)	Kanazawa RR Shops	Matsuto, 6 miles SW of Kanazawa.	36°32'N 136°34'E	BSU	RRT	Important Imperial Government Railway Shops repairing locomotives and cars. Only shops in N coast region of Central Japan.
90:11-873 Toyama (Japan)	Komaki Hydro-Electric Plant	Sho River about 2 miles E NE of Inami.	36°34'N 137°00'E	BSU	EP	Capacity 72,000 kw. Double frequency plant able to supply either Tokyo or Central Honshu networks.
90:11-874 Toyama (Japan)	Kanidera Hydro-Electric Plant	Jintsu River about 12 miles S of Toyama.	36°31'N 137°14'E	BSU	EP	Capacity 48,000 kw (6,000 kw in dry season). Feeds into Central Honshu network.
90:11-875 Toyama (Japan)	Soyama Hydro-Electric Plant	Sho River about 5 miles S of Inami and of Komaki Hydro-electric Plant (90:11-873).	36°28'N 136°59'E	BSU	EP	Capacity 48,000 kw. Feeds into Central Honshu network.
90:11-876 Toyama (Japan)	Yanagawara Hydro-Electric Plant	Kurobe River about 12 miles from mouth.	36°48'N 137°36'E	BSU	EP	Capacity 54,000 kw (15,000 kw dry season). Double frequency plant able to supply either Tokyo or Central Honshu networks. Water carried by tunnel 5½ miles from Kurobe Hydro-Electric Plant No. 2 (90:11-877) to the SW.
90:11-877 Toyama (Japan)	Kurobe Hydro-Electric Plant No. 2	Kurobe River about 17 miles from mouth and 5½ miles SE of Yana- gawara Hydro- electric Plant (90:11-876).	36°45'N 137°39'E	BSU	EP	Capacity 65,000 kw (20,000 kw dry season). Double frequency plant able to supply either Tokyo or Central Honshu networks. Water carried 4 miles by tunnel from Kurobe Hydro-electric Plant No. 3 to the S (90:11-1608).
90:11-936 Toyama (Japan)	Nisson Chemical Co., No. 1	About 4 miles W SW of Toyama.	36°40'N 137°10'E	BPI	C	Minor nitrogen fixation plant.
90:11-941 Toyama (Japan)	Fujikoshi Steel Products, Toyama Plants	On E edge of Toyama.	36°41'N 137°15'E	BEI	MMT	Major Jap machine tool plant. Products used in manufacture of aircraft engines and ordnance. Also important producer of anti-friction bearings.
90:11-1608 Toyama (Japan)	Kurobe Hydro-electric Plant No. 3	On S bank and near head of Kurobe River.	36°42'N 137°40'E	BSU	EP	installed capacity 54,000 kw. Able to supply either Tokyo or Central Honshu networks.

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SHEETATI
 DATE.20 June 1945

JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
 NUMERICAL TARGET INDEX

OBJECTIVE AREA 90:11—TOYAMA (JAPAN)—(Continued)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
90:11-1633 Toyama (Japan)	Sasazu Transformer Station	SW of Sasazu Village, just N of Jintsu River.	36°34'N 137°13'E	BSU	EP	Primary transformer station. Collecting and step up point for numerous hydro plants in Toyama region.
90:11-1689 Toyama (Japan)	Kokusan Light Metals Co.,	Sasazu.	36°34'N 137°13'E	BPI	NFM	One of 14 most important aluminum plants.
90:11-1940 Toyama (Japan)	Aimoto Hydro-electric Power Plant	Kurobe River.	36°51'N 137°30'E	BSU	EP	Estimated 30,000 kw capacity. Secondary plant.
90:11-1942 Toyama (Japan)	Nippon Magnesium Co.	About 8 miles due S of Toyama, about 1½ miles NNW of Sasazu.	36°35'N 137°12'E	BPI	NFM	Medium size magnesium producer.
90:11-1943 Toyama (Japan)	Fujikoshi Steel Products, Higashi-Iwase Plants	About 3½ miles NNE of Toyama, about 1½ miles SE of Higashi-Iwase. On W side of RR line.	36°44'N 137°15'E	BEI EPI BPI	MMT LM CIS	Producer of precision tools, ball and roller bearings, metal alloys. Small electric steel capacity.
90:11-1944 Toyama (Japan)	Nippon Soda Co. Magnesium Plant	Near E bank of Jintsu River about 1 mile from mouth. Near S edge of Higashi-Iwase.	36°45'N 137°13'E	BPI	NFM	Medium producer of magnesium. Product may be used in manufacture of duralumin.
90:11-2056 Toyama (Japan)	Wadagawa Hydro Plant	On Joganji River.	36°34'N 137°23'E	BSU	EP	36,000 kw capacity. Secondary plant.
90:11-2057 Toyama (Japan)	Magawa Hydro Plant No. 1	On Joganji River.	36°34'N 137°27'E	BSU	EP	33,000 kw capacity. Secondary plant.
90:11-2062 Toyama (Japan)	Inotani Hydro Plant	On Jintsu River.	36°29'N 137°14'E	BSU	EP	22,000 kw capacity. Minor plant.
90:11-3545 Toyama (Japan)	Uotsu—Port Area	On Nanao Bay in N Central Honshu.	36°48'N 137°22'E	BSU	S	Landing.
90:11-3586 Toyama (Japan)	Fushiki—Port Area	On Nanao Bay in N Central Honshu.	36°48'N 137°04'E	BSU	S	Annual capacity about 1,500,000 metric tons. Port of Takaoka, with anchorage.
90:11-3587 Toyama (Japan)	Higashi-Iwase—Port Area	On Nanao Bay in N Central Honshu.	36°45'N 137°14'E	BSU	S	Annual capacity about 396,000 metric tons. Port of Toyama.
90:11-3591 Toyama (Japan)	Nanao—Port Area	On Toyama Bay in N Central Honshu.	37°03'N 136°58'E	BSU	S	Annual capacity about 394,000 metric tons. Cement and chemicals port.

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JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
NUMERICAL TARGET INDEX

SHEETATI
 DATE.20 June 1945

OBJECTIVE AREA 90:12—NAGANO (JAPAN)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
90:12-1098 Nagano (Japan)	Nagano Government RR Shops	S edge of Nagano.	36°38'N 138°12'E	BSU	RRT	One of six principal shops in Japan for locomotive repair. Also repairs cars. Only shop serving central Honshu trans-island lines above Nagoya and Tokyo.
90:12-1100 Nagano (Japan)	Showa Denko Aluminum, Omachi	1 mile S of Omachi directly E of Takase River.	36°29'N 137°52'E	BPI	NFM	One of 14 most important aluminum plants in Japanese Empire, integrated with an alumina plant.
90:12-1642 Nagano (Japan)	Nippon Soda KK (Nihongi)	W side of Nihongi.	36°59'N 138°14'E	BPI	C	One of 3 largest electrolytic soda plants in Japan with pre-war production of chlorine, caustic soda and other chemicals. One of 5 largest producers of dyes.
90:12-2049 Nagano (Japan)	Torisaka Hydro Plant	On Seki River.	36°59'N 138°16'E	BSU	EP	33,000 kw capacity. Secondary plant.
90:12-2051 Nagano (Japan)	Minochi Hydro Plant	On Sai River.	36°34'N 138°03'E	BSU	EP	31,000 kw capacity. Secondary plant.
90:12-2064 Nagano (Japan)	Oami Hydro Plant	On Hime River.	36°53'N 137°52'E	BSU	EP	24,000 kw capacity. Minor plant.
90:12-2068 Nagano (Japan)	Ryujima Hydro Plant	On Shinano River.	36°11'N 137°47'E	BSU	EP	23,000 kw capacity. Minor plant.
90:12-2069 Nagano (Japan)	Himekawa Hydro Plant No. 6	On Hime River.	36°56'N 137°52'E	BSU	EP	22,000 kw capacity. Minor plant.
90:12-2070 Nagano (Japan)	Komoro Hydro Plant	On Chikuma River.	36°19'N 138°25'E	BSU	EP	22,000 kw capacity. Minor plant.
90:12-2072 Nagano (Japan)	Shimagawara Hydro Plant	On Chikuma River.	36°20'N 138°21'E	BSU	EP	22,000 kw capacity. Minor plant.

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JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
 NUMERICAL TARGET INDEX

SHEETATI
 DATE 20 June 1945

OBJECTIVE AREA 90:13—TAKASAKI (JAPAN)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
90:13-789 Takasaki (Japan)	Nakajima Aircraft Co., Ota Parts Plant	On edge of Ota Village, 1/2 mile NW of Nakajima Aircraft, New Ota Plant (90:13-1544).	36°18'N 139°22'E	EPI	AC	Minor components and development plant.
90:13-810A Takasaki (Japan)	Furukawa Copper Ore Dressing Plant	Tsudo, about 7 1/2 miles S of Lake Chuzenji and 1 1/2 miles S SW of Furukawa Machine Shops (90:13-810C).	36°38'N 139°27'E	BPI	NFM	Can process 400,000 tons of ore annually. Treats all ore from Furukawa mines at Ashio.
90:13-810B Takasaki (Japan)	Furukawa Copper Smelter	Honzan, about 5 miles S of Lake Chuzenji and 1 mile N of Furukawa Machine Shops. (90:13-810C).	36°40'N 139°27'E	BPI	NFM	Treats concentrates from Furukawa Copper Ore Dressing Plant at Tsudo (90:13-810A).
90:13-810C Takasaki (Japan)	Furukawa Machine Shops	Mato, about 6 1/2 miles S of Lake Chuzenji, and 1 mile S of Furukawa Copper Smelter. (90:13-810B).	36°39'N 139°27'E	BPI BEI	NFM MMT	Small. Repairs mine machinery and equipment for Furukawa mines. Reported to manufacture some transformers, mine locomotives, etc.
90:13-811 Takasaki (Japan)	Furukawa Copper Refinery	Kiyotaki Village about 3 miles E of Lake Chuzenji and 4 miles SW of Nikko.	36°44'N 139°33'E	BPI	NFM	Electrolytic copper refinery. 90 acres. Rolling mills for both copper and aluminum. New duralumin rolling mill. Produces aircraft propeller forgings.
90:13-1051 Takasaki (Japan)	Takasaki RR Yards.	E edge of Takasaki.	36°19'N 139°01'E	BSU	RRT	Freight yards, locomotive shed and passenger station. Serve Joetsu and Shin-Etsu Lines between Tokyo and Niigata.
90:13-1059 Takasaki (Japan)	Saku Hydroelectric Plant	E bank Tone River across from Shibukawa.	36°28'N 139°02'E	BSU	EP	74,000 kw (usually below 60,000 kw). Serves Tokyo.
90:13-1544 Takasaki (Japan)	Nakajima Aircraft New Ota Plant	E of Ota Village, 2.7 miles NNW of Nakajima Aircraft, Koizumi Plant (90:13-1545).	36°18'N 139°23'E	EPI	AC	Assembled an estimated 14% of Japanese combat planes.
90:13-1545 Takasaki (Japan)	Nakajima Aircraft, Koizumi Plant	1 mile SW of Koizumi. 2.7 miles SSE of Nakajima Aircraft, New Ota Plant (90:13-1544).	36°15'N 139°25'E	EPI	AC	One of largest assembly plants for Navy planes, producing 22% of all combat aircraft.
90:13-1546 Takasaki (Japan)	Nakajima Aircraft, Maebashi Parts Plant	Maebashi. W of Tone River and of Shin Maebashi RR station.	36°22'N 139°05'E	EPI	AC	Produces airframe components and hydraulic parts.
90:13-1611 Takasaki (Japan)	Nakatsugawa Hydro Plant No. 1	On Nakatsu River about 30 miles NE of Nagano.	36°57'N 138°40'E	BSU	EP	Installed capacity 39,000 kw. Secondary plant.
90:13-1613 Takasaki (Japan)	Shimotaki Hydro Plant	On W bank of Kinugawa near Shimotaki.	36°50'N 139°43'E	BSU	EP	Installed capacity 37,000 kw. Secondary plant.

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SHEETATI
 DATE.20 June 1945

JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
 NUMERICAL TARGET INDEX

OBJECTIVE AREA 90:13—TAKASAKI (JAPAN)—(Continued)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
90:13-1643 Takasaki (Japan)	Utsunomiya Air Training School and Arsenal	5 miles E of center of Utsunomiya.	36°32'N 140°00'E	EPI	AC A	One of principal Army Air Arsenals. Important pilot training school.
90:13-1645 Takasaki (Japan)	Kakuwa Mfg. Co.	About 2 miles E of Utsunomiya.	36°33'N 139°56'E	EPI	AC A	Produces oleo struts and other aircraft parts for Nakajima. Reported also producing ordnance components.
90:13-1646 Takasaki (Japan)	Riken Industrial Co., Maebashi	At Shin Maebashi Station, SW of Maebashi.	36°23'N 139°03'E	BEI	MMT	Important machine tool producer for nearby aircraft industry. Also reported making internal combustion engines and aircraft parts.
90:13-1647 Takasaki (Japan)	Riken Industrial Co., Takasaki	Just NE of Takasaki.	36°20'N 139°01'E	BEI EPI	MMT LM	3 integrated plants producing machine tools, ball bearings, cranes and aircraft hydraulic components.
90:13-1650 Takasaki (Japan)	Nakajima Aircraft, Kumagaya Parts Plant	NW edge of Kumagaya.	36°09'N 139°22'E	EPI	AC	Engine parts plant supplying Nakajima; reported also making airframe parts.
90:13-2043 Takasaki (Japan)	Iwahana Arsenal	Iwahana, about 4 miles SE of Takasaki.	36°18'N 139°05'E	EPI MS	A M	A large explosives and ammunition plant affiliated with Tokyo No. 2 Arsenal.
90:13-2065 Takasaki (Japan)	Haramachi Hydro Plant	On Tone River.	36°34'N 138°50'E	BSU	EP	24,000 kw capacity. Minor plant.
90:13-2066 Takasaki (Japan)	Matsuya Hydro Plant	On Tone River.	36°34'N 138°42'E	BSU	EP	24,000 kw capacity. Minor plant.
90:13-2088 Takasaki (Japan)	Fukaya Branch of Tokyo No. 2 Arsenal	N of Fukaya.	36°12'N 139°18'E	MS EPI	M A	Very large munitions storage and some manufacturing.
90:13-2131 Takasaki (Japan)	Nakajima Aircraft, Utsunomiya Plant	About 1 mile S of Utsunomiya.	36°32'N 139°52'E	EPI	AC	Aircraft assembly, probably FRANK, and parts manufacture. Expansion likely.
90:13-2138 Takasaki (Japan)	Nakajima Aircraft, Ojima Plant	About 3½ miles SW of Ota.	36°15'N 139°20'E	EPI BEI	AC MMT	Nakajima components plant. May produce machine tools for Nakajima.
90:13-2154 Takasaki (Japan)	Utsunomiya Army Arsenal	6 miles S of Utsunomiya	36°28'N 139°52'E	EPI	A	Large arsenal manufacturing light ordnance for ground forces.
90:13-2228 Takasaki (Japan)	Yorii Munitions Storage	Yorii	36°06'N 139°13'E	MS	M	Mixed military storage area.
90:13-2238 Takasaki (Japan)	Fukaya Branch of Tokyo No. 2 Arsenal, SW Section	About 3 miles W of Kumagaya Airfield.	36°10'N 139°14'E	EPI MS	A M	Manufacture and storage of explosives.

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JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
NUMERICAL TARGET INDEX

SHEET **ATI**
 DATE **20 June 1945**

OBJECTIVE AREA 90:14—MITO (JAPAN)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
90:14-371 Mito (Japan)	Tateyama Naval Air Station	SW tip of Chiba Peninsula, on coast.	34°59'N 139°50'E	EPI	AC	A major Naval aircraft operations training and repair base.
90:14-373 Mito (Japan)	Kisarazu Naval Air Station	At Kisarazu, on Tokyo Bay, opposite Yokohama.	35°24'N 139°55'E	EPI	AC	One of most important Naval air stations. Headquarters 2nd Naval Air Depot. Staging base for new airgroups. Facilities for aircraft and engine repair and modification.
90:14-812 Mito (Japan)	Hitachi Copper Refinery	Miyata, 1 mile N of Sukegawa.	36°36'N 140°39'E	BPI	NFM	No further information.
90:14-1466 Mito (Japan)	Kasumigaura Naval Air Station	At Kasumigaura. About 1 mile SW of Seaplane Base. (90:14-1491). On Kasumiga Lake.	36°01'N 140°12'E	EPI	AC	Facilities for flight training, maintenance, major repair and overhaul of aircraft and engines.
90:14-1476 Mito (Japan)	Hitachi Engineering Works, Kaigan Plant	SW Sukegawa 1/4 mile from shore.	36°35'N 140°39'E	BEI EPI	MMT A	Important producer of heavy electrical equipment. Also produces Diesel engines. Reported partially converted to production of tanks, aircraft components .
90:14-1478 Mito (Japan)	Mito Railroad Junction and Station	S Mito.	36°22'N 140°28'E	BSU	RRT	Controls traffic on E coast. Double-tracked main line.
90:14-1479 Mito (Japan)	Toride RR Bridge	At Toride, over Tone River.	35°53'N 140°04'E	BSU	RRT	Double tracked, 1,000 feet, with adjacent junction. Controls traffic from both Mito and interior.
90:14-1491 Mito (Japan)	Kasumigaura Naval Air Station (Seaplane Base)	E of Kasumigaura, about 1 mile NE of Kasumigaura Naval Air Station. (90:14-1466).	36°03'N 140°13'E	EPI	AC	Seaplane base, permanent station, also training.
90:14-1492 Mito (Japan)	Hitachi Copper Smelter	Daioin, 1 1/4 miles NW of Miyata and Hitachi Copper Refinery (90:14-812).	36°37'N 140°38'E	BPI	NFM	Treats ore from Hitachi mine 1 1/2 miles NE up valley and supplies Hitachi Copper Refinery. (90:14-812).
90:14-1521 Mito (Japan)	Showa Chemical and Fertilizer Plant	N of Showa.	35°08'N 140°16'E	BPI	C	Minor. Subsidiary plant producing potassium nitrate, fertilizer, salt, iodine.
90:14-1522 Mito (Japan)	Shinohara Machinery Works	S of Tsudanuma.	35°41'N 140°04'E	BEI	MMT	Controlled by Hitachi Engineering. Produces gear cutters, lathes, milling machines.
90:14-1699 Mito (Japan)	Riken Vacuum Tube Co., Factory No. 2	In city of Mohara; precise location unknown.	35°26'N 140°18'E	EPI	LM	Company manufactures tubes, radio sets, etc. This factory may make tubes.
90:14-2016 Mito (Japan)	Kisarazu Aircraft Engine Plant	4 1/2 miles S of Kisarazu City, on Tokyo Bay.	35°19'N 139°55'E	EPI	AC	Small-scale engine manufacture or repair.
90:14-2098 Mito (Japan)	Hitachi Eng'r Works, Densen Plant	Sukegawa section of Hitachi City about 3/4 mile NW of Hitachi Eng'r. Works, Kaigan Plant (90:14-1476).	36°36'N 140°39'E	BEI	MMT	Important wire and cable producer. Also heavy electrical equipment.

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SHEETATI
 DATE.....20 June 1945

JOINT TARGET GROUP, WASHINGTON, D. C.
 AIR TARGET INDEX — JAPANESE WAR
 NUMERICAL TARGET INDEX

OBJECTIVE AREA 90:14—MITO (JAPAN)—(Continued)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
90:14-2099 Mito (Japan)	Hitachi Eng'r. Works, Yamate Plant	Shibauchi section of Hitachi, about 1 1/4 miles NNW of Hitachi Eng'r. Works, Kaigan Plant (90:14-1476).	36°36'N 140°39'E	EPI	LM	Light electrical equipment.
90:14-2100 Mito (Japan)	Hitachi Eng'r. Works, Taga Plant	In Taga, about 3 miles SSW of Hitachi Eng'r. Works, Kaigan Plant (90:14-1476).	36°33'N 140°38'E	BEI EPI	MMT LM	Light and heavy electrical equipment.
90:14-2145 Mito (Japan)	Hitachi Aircraft, Chiba Plant	In S outskirts of Chiba city.	35°34'N 140°07'E	EPI	AC	Airframe and engine plant. Still under construction.
90:14-3414 Mito (Japan)	Choshi—Port Area	At mouth of Tone River due E of Tokyo.	35°44'N 140°50'E	BSU	S	Annual capacity about 214,000 metric tons. Fishing port.
90:14-3432 Mito (Japan)	Chiba—Port Area	On E side of Tokyo Bay.	35°36'N 140°07'E	BSU	S	Landing.

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JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
 NUMERICAL TARGET INDEX

SHEET **ATI**
 DATE **20 June 1945**

OBJECTIVE AREA 90:15—TAKAYAMA (JAPAN)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
90:15-1484 Takayama (Japan)	Kamioka Lead and Zinc Mine	N of Funatsu.	36°21'N 137°18'E and 36°26'N 137°17'E	BPI	NFM	Largest lead and zinc mine, second largest lead smelter in Japan. 7 mines, 3 concentrators and lead smelter scattered over 6-mile area.
90:15-2048 Takayama (Japan)	Kasumizawa Hydro Plant	On Azusa River.	36°10'N 137°39'E	BSU	EP	35,000 kw capacity. Secondary plant.
90:15-2058 Takayama (Japan)	Kohara Hydro Plant	On Sho River.	36°24'N 136°53'E	BSU	EP	32,000 kw capacity. Secondary plant.
90:15-2059 Takayama (Japan)	Magawa Hydro Plant No. 2	On Joganji River.	36°32'N 137°31'E	BSU	EP	30,000 kw capacity. Secondary plant.
90:15-2073 Takayama (Japan)	Takasegawa Hydro Plant No. 3	On Takase River.	36°28'N 137°41'E	BSU	EP	21,000 kw capacity. Minor plant.

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JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
 NUMERICAL TARGET INDEX

SHEETATI
 DATE20 June 1945

OBJECTIVE AREA 90:16—KOFU (JAPAN)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
90:16-1496 Kofu (Japan)	Chichibu Cement Co.	E of Chichibu RR station.	36°00'N 139°06'E	BPI	C	Cement.
90:16-1498 Kofu (Japan)	Otaki Hydro Plant	W bank of Kiso River at mouth of Ogawa Branch. Across from Age-matsu RR station.	35°47'N 137°42'E	BSU	EP	Capacity 32,000 kw (9,600 kw dry season). Minor plant in Osaka-Nagoya network.
90:16-1499 Kofu (Japan)	Momoyama Hydro Plant and Substation	W bank of Kiso River 4 miles S of mouth of Ogawa Branch and Otaki Hydro Plant. (90:16-1498).	35°43'N 137°43'E	BSU	EP	Capacity 24,000 kw (10,000 kw dry season). Double-cycle, able to supply either Tokyo or Central Honshu networks. Also cycle-changing equipment for power produced elsewhere.
90:16-1502 Kofu (Japan)	Yomikaki Hydro Plant	N bank Kiso River 15 miles S SW of mouth of Ogawa Branch and Otaki Hydro Plant. (90:16-1498)	35°35'N 137°36'E	BSU	EP	Capacity 40,000 kw (11,000 kw dry season). Double-cycle, able to supply either Tokyo or Central Honshu networks. Secondary plant.
90:16-1505 Kofu (Japan)	Oi Hydro Plant	N bank of Kiso River 28 miles SW of mouth of Ogawa Branch and Otaki Hydro Plant. (90:16-1498).	35°31'N 137°24'E	BSU	EP	Capacity 43,000 kw (12,000 kw dry season). Secondary plant supplying Central Honshu network.
90:16-1508 Kofu (Japan)	Tashirogawa Hydro-electric Power Plant No. 2	Tashiro River.	35°29'N 138°20'E	BSU	EP	Estimated 21,000 kw capacity double-cycle plant able to supply either Tokyo or Osaka-Nagoya network.
90:16-1509 Kofu (Japan)	Hayakawa Hydro-electric Power Plant No. 1	Haya River.	35°23'N 138°23'E	BSU	EP	Estimated 29,000 kw capacity. Minor plant.
90:16-1512 Kofu (Japan)	Shishidome Hydro-electric Power Plant	Katsura River.	35°32'N 138°52'E	BSU	EP	Estimated 22,000 kw capacity. Minor plant.
90:16-1514 Kofu (Japan)	Komahashi Hydro-electric Power Plant	Katsura River.	35°37'N 138°58'E	BSU	EP	Estimated 21,000 kw capacity. Minor plant.
90:16-1515 Kofu (Japan)	Yatsuzawa Hydro Plant	N bank Sagami River. 15 miles W of Hachioji.	35°37'N 139°06'E	BSU	EP	Capacity 43, 200kw. 1% of Tokyo network's estimated installed capacity.
90:16-1591 Kofu (Japan)	Yasuoka Hydro Plant	E bank Tenryu River 6 miles N of Hiraoka.	35°22'N 137°49'E	BSU	EP	Capacity 52,000 kw (12,000 kw dry season). Double-cycle, able to supply either Tokyo or Central Honshu networks.
90:16-1615 Kofu (Japan)	Kasagi Hydro Plant	N bank Kiso River about 30 miles W of Iida, 8 miles SW of Oi Hydro Plant (90:16-1505).	35°27'N 137°18'E	BSU	EP	Capacity 35,500 kw (9,000 kw dry season). Feeds into Central Honshu network. Secondary plant.
90:16-1652 Kofu (Japan)	Minakata Hydro Plant	On Tenryu River about 10 miles NE of Iida.	35°37'N 137°56'E	BSU	EP	Installed capacity 36,000 kw. Able to supply either Tokyo or Central Honshu networks. Secondary plant.

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JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
 NUMERICAL TARGET INDEX

SHEET **ATI**
 DATE **20 June 1945**

OBJECTIVE AREA 90:17—TOKYO (JAPAN)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
90:17-51 Tokyo (Japan)	Asano Iron Works	On Kawasaki waterfront, about 5 miles SW of Tama River mouth.	35°29'N 139°42'E	BPI	CIS	Integrated steel plant with large capacity for ship's plate.
90:17-52 Tokyo (Japan)	Japan Steel Tube Company	On Kawasaki waterfront, about 4½ miles WSW of Tama River mouth.	35°30'N 139°43'E	BPI	CIS	One of 4 largest iron and steel plants in Japanese Empire. Believed currently operating at very low level.
90:17-56 Tokyo (Japan)	Fuji Steel Works of Imp. Iron & Steel	At Kawasaki, on S bank of Tama River, about 1 mile from mouth.	35°32'N 139°44'E	BPI	CIS	Pig iron and steel producer, medium importance.
90:17-57 Tokyo (Japan)	Oriental Steel Products Co.	On Kawasaki waterfront, about 3 miles W of Tama River mouth.	35°30'N 139°43'E	BPI	CIS	Structural steel products.
90:17-58 Tokyo (Japan)	Tokyo Special Steel & Chrome Works	In N Kawasaki. On S bank of Tama River, W of Tokaido RR.	35°32'N 139°42'E	BPI EPI	CIS LM	Produces special steels and ball bearings.
90:17-62 Tokyo (Japan)	Hodogaya Sub-station	In NW Yokohama, S of Tokaido main line RR.	35°27'N 139°37'E	BSU	EP	About 20 transformers. Important station for Yokohama area.
90:17-66 Tokyo (Japan)	Takashima Freight Yard	On reclaimed land in center of Yokohama Harbor.	35°28'N 139°38'E	BSU	RRT	Ship-to-shore transfer point. Warehouses and freight yard.
90:17-67 Tokyo (Japan)	Station, junctions, overpass (Yokohama)	About ½ mile W of freight yard on reclaimed land in center of Yokohama Harbor waterfront.	35°28'N 139°38'E	BSU	RRT	Chief Yokohama passenger concentration. Short canal bridges near station.
90:17-68 Tokyo (Japan)	Higashi Yokohama Yard	Just S of Yokohama Dockyard (90:17-69) near central part of Yokohama Harbor waterfront.	35°27'N 139°38'E	BSU	RRT	One of main Yokohama freight yards.
90:17-69 Tokyo (Japan)	Yokohama Dockyard	Central part of Yokohama Harbor waterfront.	35°27'N 139°38'E	BEI BSU EPI	TE S A	One of largest shipyards in Japan. All classes of naval and commercial vessels built and repaired.
90:17-70 Tokyo (Japan)	Asano Dockyard	NW corner of Yokohama Harbor.	35°28'N 139°39'E	BEI EPI BSU	TE A S	Large scale repair of commercial and naval ships.
90:17-72 Tokyo (Japan)	Ford Motor Company	N part of Yokohama Harbor waterfront.	35°29'N 139°39'E	EPI	A	Producer of light armament, tanks, trucks, shells, small arms.
90:17-75 Tokyo (Japan)	Furukawa Electric Co., Plant No. 1	About 1 mile W of Yokohama Harbor.	35°27'N 139°37'E	BEI	MMT	Cable works and other electrical accessories.
90:17-80 Tokyo (Japan)	Niigata Sulphuric Acid Company (Yokohama)	On N waterfront, Yokohama Harbor. W of oil refinery and tank farm.	35°29'N 139°40'E	BPI	C	Sulphuric acid and other basic chemicals.

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SHEETATI
 DATE.20 June 1945

JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
 NUMERICAL TARGET INDEX

OBJECTIVE AREA 90:17—TOKYO (JAPAN)—(Continued)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
90:17-87 Tokyo (Japan)	Ogura Oil Company	On Tokyo outer harbor water front in Tokyo Bay.	35°29'N 139°40'E	EPI MS	P P	3rd or 4th largest Inner Zone crude oil refinery, but apparently not operating May 1945. Major oil storage but some tankage removed.
90:17-90 Tokyo (Japan)	Oriental Oil Co.	On reclaimed land N of Yokohama Harbor, about 1/2 mile NE of tank farm of Ogura Oil Co. (90:17-87) next to bridge to mainland.	35°29'N 139°40'E	EPI	P	Oil and gasoline producer.
90:17-94 Tokyo (Japan)	Matsukata Oil Storage	On reclaimed land, immediately N of large tank farm of Ogura Oil Co. (90:17-87).	35°29'N 139°40'E	MS	P	Secondary petroleum and gasoline storage.
90:17-102 Tokyo (Japan)	Asahi Substation	About 5 miles NNE of Yokohama Harbor. About 1 1/2 miles SW of Tsurumi Shunting Yard (90:17-112).	35°32'N 139°39'E	BSU	EP	One of key stepdown stations in Tokyo Bay area.
90:17-104 Tokyo (Japan)	Nippon Electric Power Transformer Station	In W Kawasaki. Between Tsurumi River and Tsurumi Shunting Yard (90:17-112) near S end of latter.	35°32'N 139°40'E	BSU	EP	Secondary substation connected with Tokyo Steam Power Plant (90:17-493).
90:17-105 Tokyo (Japan)	Kawasaki Substation No. 1	In W Kawasaki. About 1/2 mile E of S end of Tsurumi Shunting Yard (90:17-112).	35°32'N 139°41'E	BSU	EP	Important outdoor switching and transformer station. Connects area with power plants in north.
90:17-106 Tokyo (Japan)	Railroad Transformer Station	In Kawasaki, just N of main RR line to Yokohama, near Tama River bridge.	35°32'N 139°40'E	BSU	EP	Railway step-up station.
90:17-110 Tokyo (Japan)	Tokyo Electric Power Station, Tsurumi Plant	On Kawasaki waterfront.	35°29'N 139°43'E	BSU	EP	Important power station for area. 178,000 kw capacity.
90:17-111 Tokyo (Japan)	Kawasaki Electric Power Plant	On Kawasaki waterfront, about 3 1/2 miles SW of Tama River mouth.	35°30'N 139°43'E	BSU	EP	Chief power source for railroads in area. 60,000 kw capacity.
90:17-112 Tokyo (Japan)	Tsurumi Shunting Yard	In N Kawasaki, W of Tama River.	35°32'N 139°41'E	BSU	RRT	One of most important yards in area.
90:17-116 Tokyo (Japan)	Mitsubishi Oil Refinery	Kawasaki waterfront. S of Hayama Petroleum Refinery. (90:17-127).	35°30'N 139°44'E	EPI MS	P P	Fifth largest Inner Zone crude oil refinery. Major oil storage target. Refinery apparently not operating. Some tankage has been removed.
90:17-122 Tokyo (Japan)	Tsurumi Steel & Shipbuilding Co.	On Kawasaki waterfront, about 3/4 mile E of Tsurumi River mouth.	35°29'N 139°42'E	BEI EPI	TE A	Most modern shipyard in Japan. Specializes in naval escort and merchant vessel construction.

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JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
 NUMERICAL TARGET INDEX

SHEETATI
 DATE 20 June 1945

OBJECTIVE AREA 90:17—TOKYO (JAPAN)—(Continued)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
90:17-127 Tokyo (Japan)	Hayama Petroleum Refinery	Kawasaki waterfront N of Mitsubishi Oil Refinery. (90:17-116).	35°30'N 139°44'E	EPI MS	P P	Tenth largest Inner Zone crude oil refinery. Major oil storage target. Refinery apparently not operating and some tankage removed.
90:17-128 Tokyo (Japan)	Petroleum Center	On Kawasaki waterfront, about 1½ miles E of Tsurumi River mouth.	35°29'N 139°42'E	EPI MS	P P	7th largest Inner Zone crude oil refinery. Major oil storage target. Refinery apparently not operating May 1945.
90:17-133 Tokyo (Japan)	Shibaura Engineering Works	On Kawasaki waterfront, 1 mile NE of Tsurumi river mouth.	35°29'N 139°42'E	BEI	MMT	Produces 1/3 of total Jap heavy electrical equipment, i.e. generators, transformers, etc. Also major producer of heavy high precision machine tools. One of two known Jap manufacturers of heavy steel rolling mill equipment.
90:17-134 Tokyo (Japan)	Asahi Glass Co.	On Kawasaki waterfront, about ½ mile E of Tsurumi River near mouth.	35°29'N 139°41'E	BPI	C	Optical glass producer, also chemicals.
90:17-136 Tokyo (Japan)	Fuji Electric Works	In S Kawasaki near waterfront.	35°30'N 139°42'E	BEI	MMT	Produces wire and cable.
90:17-137 Tokyo (Japan)	Showa Fertilizer Company	On Kawasaki waterfront about midway between Tsurumi River and Tama River mouths.	35°30'N 139°44'E	BPI	C	Major nitrogen fixation plant, important producer of sulphuric acid.
90:17-141 Tokyo (Japan)	Yokohama Rubber Company	In S Kawasaki. about 1 mile N of waterfront.	35°30'N 139°41'E	BEI	TE	Producer of truck and airplane tires
90:17-142 Tokyo (Japan)	Unidentified Arms Plant	In Kawasaki, just SW of mouth of Tama River.	35°32'N 139°45'E	EPI	A	Producer of guns.
90:17-191 Tokyo (Japan)	Mitsubishi Coal Depot	On Kawasaki waterfront, Tokyo Bay, just WSW of Mitsubishi Oil Refinery (90:17-116).	35°30'N 139°43'E	BSU	S	Large coal depot. Large wharf and loading cranes.
90:17-201 Tokyo (Japan)	Ordnance Storehouse—Ammunition	In Oji, Ward, N Tokyo.	35°47'N 139°43'E	MS EPI	M A	Ammunition storage and loading.
90:17-202 Tokyo (Japan)	Army Central Clothing Depot	In Oji Ward, N Tokyo.	35°47'N 139°43'E	MS	M	Part of the Tokyo arsenal.
90:17-203 Tokyo (Japan)	Ordnance Supply Depot	In Oji Ward, N Tokyo.	35°46'N 139°43'E	MS EPI	M A	Part of Tokyo arsenal.
90:17-204 Tokyo (Japan)	Japan Artificial Fertilizer	On W bank of Sumida River in Oji Ward, N Tokyo.	35°45'N 139°45'E	BPI	C	Producer of chemicals for munitions with chlorine by-products.
90:17-205 Tokyo (Japan)	Army Arsenal & Military Gunpowder Works	In N Tokyo, 5 miles NNW of Tokyo Palace.	35°45'N 139°43'E	EPI MS	A M	Major arsenal, explosives, shell loading, extensive storage. Large propellants plant.

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SHEETATI
DATE.20 June 1945

JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX—JAPANESE WAR
NUMERICAL TARGET INDEX

OBJECTIVE AREA 90:17—TOKYO (JAPAN)—(Continued)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
90:17-206 Tokyo (Japan)	Army Arsenal	In Oji Ward, N Tokyo.	35°45'N 139°44'E	EPI	A	Major arsenal (Jujo Factory of Tokyo No. 1 Arsenal), producing fire control equipment, light weapons. Communications equipment.
90:17-207 Tokyo (Japan)	Military Gunpowder Works	In Oji Ward, N Tokyo.	35°45'N 139°45'E	EPI	A	Part of Tokyo arsenal.
90:17-208 Tokyo (Japan)	Army Branch Powder Factory	In Oji Ward, N Tokyo.	35°45'N 139°45'E	EPI	A	Part of Tokyo arsenal.
90:17-209 Tokyo (Japan)	Military Works	In Oji Ward, N Tokyo.	35°45'N 139°44'E	EPI	A	Part of Tokyo arsenal.
90:17-211 Tokyo (Japan)	Inawashiro Transformer Station	In N Tokyo between Tabata-Nippori RR Yards (90:17-224) and the Sumida River.	35°44'N 139°46'E	BSU	EP	Capacity 106,000 kw. Receives power from Lake Inawashiro generators. One of key stepdown stations in Tokyo Bay area.
90:17-212 Tokyo (Japan)	Asahi Electro Chemical Co. (Tokyo)	N Tokyo on S bank of Sumida River above Tabata-Nippori RR Yards (90:17-224).	35°44'N 139°47'E	BPI	NFM	One of the most important Japanese magnesium plants. Has own steam power plant and oil tanks.
90:17-213 Tokyo (Japan)	Kinugawa Steam Power Station	N Tokyo on S bank Sumida River E of and adjacent to Asahi Electro-Chemical Co. (90:17-212).	35°45'N 139°47'E	BSU	EP	Reserve plant, 30-35,000 kw capacity. Supplies Tokyo tramways.
90:17-214 Tokyo (Japan)	Koishikawa Armory	N Tokyo, approximately 2 miles NNW of Imperial Palace. In Koishikawa Ward.	35°43'N 139°44'E	EPI	A	Produces guns, artillery and firing control mechanisms.
90:17-217 Tokyo (Japan)	Powder Factory	In Oji Ward, N Tokyo.	35°46'N 139°43'E	EPI	A	Part of Tokyo Arsenal.
90:17-218 Tokyo (Japan)	Ordnance Storehouse	In Oji Ward, N Tokyo.	35°46'N 139°43'E	MS	M	Part of Tokyo Arsenal.
90:17-224 Tokyo (Japan)	Tabata-Nippori Railroad Yards	N Tokyo, approximately 3 miles N of Imperial Palace.	35°44'N 139°46'E	BSU	RRT	One of 5 most important yards in Tokyo City area. Yard is 2 miles long and 1500 feet wide.
90:17-228 Tokyo (Japan)	Government Steam Power Station	In Oji area N Tokyo, on W side of Sumida River.	35°46'N 139°44'E	BSU	EP	Second most important Railway power plant in Tokyo area. Capacity 25,000 kw.
90:17-230 Tokyo (Japan)	Senju Steam Power Station	N Tokyo, between Sumida and Ara Rivers.	35°45'N 139°48'E	BSU	EP	77,000 kw capacity. Station connects to "Joetsu Line."
90:17-274 Tokyo (Japan)	Yokosuka Navy Yard	Along entire E side of Yokosuka Harbor.	35°17'N 139°40'E	EPI	A	One of 4 most important Navy yards in Japan, capable of handling every type of Naval vessel. Has 6 drydocks, 4 building ways and a marine railway.

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CONFIDENTIAL

JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
 NUMERICAL TARGET INDEX

SHEET **ATI**DATE **20 June 1945****OBJECTIVE AREA 90:17—TOKYO (JAPAN)—(Continued)**

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
90:17-282 Tokyo (Japan)	Yokosuka Arsenal and Armament Works	At head (SW end) of Nagaura Harbor, NW of Yokosuka Harbor.	35°18'N 139°38'E	EPI MS	A M	Major arsenal, gun mounts, torpedoes, extensive storage.
90:17-297 Tokyo (Japan)	Azuma Oil Storage	At Yokosuka, on N tip of Hako Point, E side of Nagaura Harbor.	35°18'N 139°39'E	MS	P	Several surface and some underground oil tanks (major oil storage).
90:17-298 Tokyo (Japan)	Oppama Naval Air Station (Yokosuka)	E of entrance to Kanazawa Bay, Yokosuka.	35°19'N 139°39'E	EPI	AC	Facilities for maintenance repair and overhaul of aircraft and aero engines.
90:17-326 Tokyo (Japan)	Nippon Electric Co., Factory No. 2, Mita Plant	Near Tokyo Harbor waterfront, about 2 miles S of Imperial Palace, 1/2 mile N of Shinagawa RR Yards. (90:17-364).	35°39'N 139°45'E	EPI	LM	Most important plant in Japan for manufacture of telephonic and general electrical communication equipment. 3/4 of all electrical indicating instruments in military radar and radio, plus large quantities of other radio and radar components. Tube production, if any, is unimportant.
90:17-327 Tokyo (Japan)	Mitsubishi Electric, Shibaura Plant	Tokyo Harbor waterfront, S of mouth of Sumida River.	35°38'N 139°46'E	BEI	MMT	Medium size machine tool and electrical equipment producer.
90:17-330 Tokyo (Japan)	Ishikawajima Dockyard	In Tokyo Harbor, near mouth of Sumida River.	35°40'N 139°47'E	BEI EPI	TE A	Important engineering works for commercial and naval shipbuilding. Makes turbines and other machinery for capital ships.
90:17-331 Tokyo (Japan)	Tokyo Gas & Electric Engineering Company	SE Tokyo near shore of Tokyo Bay. About 700 feet W of ship canal between shore and filled land. About 6.5 miles S SE of Imperial Palace.	35°35'N 139°44'E	BEI EPI	MMT A AC	One of leading Japanese machine tool producers; a Hitachi concern. Most types of grinders; possibly the most important producer of milling machines. Also ordnance, airplane and engine parts.
90:17-334 Tokyo (Japan)	Nisso Steel Mfg. Co.	In Tokyo, just N of Onagigawa Canal joining Sumida and Ara Rivers near mouths.	35°41'N 139°50'E	BPI	CIS	Secondary special steel and machinery producer.
90:17-336 Tokyo (Japan)	Japan Special Steel Company	SE Tokyo near waterfront. Just N of Tokyo Gas Company high cylinder tanks.	35°35'N 139°45'E	BPI	CIS	Small alloy steel manufacturer.
90:17-337 Tokyo (Japan)	Haneda Airport	About half way between Tokyo and Yokohama, near Tama River mouth.	35°34'N 139°46'E	EPI	AC	Airport surrounded by small aircraft factories and experimental plants.
90:17-350 Tokyo (Japan)	Tsukishima Machinery Co.	On reclaimed island in Tokyo Harbor at Sumida River mouth.	35°39'N 139°47'E	BEI	MMT	Small machine tool producer. Many similar small plants in near vicinity. Chemical Machinery.
90:17-352 Tokyo (Japan)	Army Engineering School	In Tokyo, about 1 1/2 miles N of Imperial Palace.	35°42'N 139°45'E	EPI	A	No further information.

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SHEETATI
 DATE.20 June 1945

JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
 NUMERICAL TARGET INDEX

OBJECTIVE AREA 90:17—TOKYO (JAPAN)—(Continued)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
90:17-355 Tokyo (Japan)	Army Provisions Depot	Tokyo Harbor waterfront. On E bank of Sumida River at mouth. E across river branch from dockyard.	35°40'N 139°48'E	MS	M	Military goods storage.
90:17-356 Tokyo (Japan)	Nakajima Aircraft, Ogikubo Plant	NW Tokyo, 8½ miles NW of Imperial Palace and 2.2 miles E of Nakajima Musashino-Tama Plant (90:17-357).	35°42'N 139°37'E	EPI	AC	Manufactures a wide variety of engine parts and possibly complete engines.
90:17-357 Tokyo (Japan)	Nakajima Aircraft, Musashino-Tama (Musashi) Plant	NW Tokyo, about 10 miles NW of Imperial Palace and 2.2 W of Nakajima Aircraft Ogikubo, Plant (90:17-356).	35°43'N 139°35'E	EPI	AC	Estimated once producing 40% of all Japanese operational type engines, both Army and Navy.
90:17-360 Tokyo (Japan)	Edogawa Petroleum Storage	In E Tokyo. On island in Edo River, about 1½ miles above mouth.	35°40'N 139°53'E	MS	P	Minor storage.
90:17-364 Tokyo (Japan)	Shinagawa Railroad Yards	E Tokyo, near harbor waterfront. About 4½ miles S of Imperial Palace.	35°38'N 139°45'E	BSU	RRT	One of the most important yards in Tokyo area. Repair shops and roundhouses.
90:17-365 Tokyo (Japan)	Shiodome Freight Yards	In Tokyo, 1½ miles SE of Imperial Palace; just W of Sumida River mouth.	35°40'N 139°46'E	BSU	RRT	Freight terminal and rail-water transshipment point. Minor importance.
90:17-366 Tokyo (Japan)	Steam Eng. & Rolling Stock Mfg. Co.	In NE Tokyo about ½ mile N of Tokyo Bay.	35°40'N 139°49'E	EPI BEI	A TE	Producer of RR equipment; probably also guns, gun carriages, tanks.
90:17-367 Tokyo (Japan)	Tokyo Central Station	In Tokyo, about ½ mile E SE of Imperial Palace.	35°41'N 139°46'E	BSU	RRT	Major passenger and minor freight traffic center.
90:17-369 Tokyo (Japan)	Ueno Railroad Station	In E Tokyo, about 2 miles N NE of Imperial Palace. Just E of Ueno Park.	35°42'N 139°47'E	BSU	RRT	Passenger traffic center. Handles most traffic to N out of Tokyo.
90:17-370 Tokyo (Japan)	Oi Railroad Works	In SE Tokyo, near waterfront, about 1 mile S of Shinagawa RR Yards. (90:17-364).	35°37'N 139°44'E	BSU	RRT	RR repair shops. About 20 buildings.
90:17-475 Tokyo (Japan)	Asano Cement Co.	In SE Kawasaki, near waterfront.	35°31'N 139°44'E	BPI	C	Large cement producer.
90:17-481 Tokyo (Japan)	Tokyo Gas Company, Tsurumi Branch	In Kawasaki, about ¼ mile E of Tsurumi River mouth.	35°30'N 139°42'E	BPI	CIS C	Most important illuminating gas producer in E Japan. Also produces coke.

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JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
 NUMERICAL TARGET INDEX

SHEET **ATI**
 DATE **20 June 1945**

OBJECTIVE AREA 90:17—TOKYO (JAPAN)—(Continued)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
90:17-484 Tokyo (Japan)	Showa Wire Cable Company	In S Kawasaki,	35°30'N 139°42'E	BEI	MMT	Affiliate of Tokyo-Shibaura Electric, producing insulated wire and cable.
90:17-485 Tokyo (Japan)	Tokyo Nakajima Electric Co.	In Kawasaki, S of Tama River.	35°32'N 139°43'E	EPI	LM	Important manufacturer of aircraft electrical equipment.
90:17-487 Tokyo (Japan)	Meiji Sugar Factory	In Kawasaki, on S bank of Tama River.	35°32'N 139°42'E	BPI	C	One of largest in Japan. Sugar and alcohol production.
90:17-488 Tokyo (Japan)	Tokyo-Shibaura Electric Co., Factory No. 2, Yanagi Plant	In Kawasaki, on N side of Tokaido RR, about 1/3 mile S of Tama River.	35°32'N 139°42'E	EPI	LM	Third most important electronic tube manufacturing plant in Japan (10 to 20% of total). Also produces other radio and radar components.
90:17-489 Tokyo (Japan)	Nippon Elec. Wire & Cable	In Kawasaki, on S side Tokaido RR 1/2 mile S of Tama River.	35°32'N 139°42'E	BEI	MMT	No information as to products.
90:17-493 Tokyo (Japan)	Tokyo Steam Power Plant	On S Kawasaki waterfront. NE of Petroleum Center (90:17-127)	35°30'N 139°43'E	BSU	EP	Important power source. 77,000 kw.
90:17-496 Tokyo (Japan)	Tokyo-Shibaura Electric Co., Factory No. 1, Horikawa Plant	Kawasaki, N of Tokaido RR, 1 mile S of Tama River.	35°32'N 139°42'E	EPI	LM	Most important electronic tube plant in Japanese Empire (50% of all tubes, tungsten filament and glass envelopes). Completely integrated plant; also has one of best electronic research laboratories.
90:17-497 Tokyo (Japan)	Nippon Electric Co., Factory No. 1, Tama Plant	In N Kawasaki, about 1 mile N of Tsurumi Shunting Yard (90:17-112).	35°34'N 139°40'E	EPI	LM	One of three largest producers of electronic tubes, has important electronic laboratory. Specializes in radar tubes.
90:17-498 Tokyo (Japan)	Kurada Iron Works	NE Yokohama waterfront.	35°29'N 139°39'E	EPI BEI	A TE	Produces car bodies, steel hulls, small armed boats.
90:17-499 Tokyo (Japan)	Nippon Carbon Co., Factory No. 1	NE Yokohama waterfront.	35°29'N 139°39'E	BPI EPI	C LM	Largest producer of carbon electrodes in Japan.
90:17-521 Tokyo (Japan)	Japan (Showa) Electro-Chemical Co.	NE Yokohama waterfront.	35°29'N 139°40'E	BPI	NFM	Alumina plant.
90:17-522 Tokyo (Japan)	Nissan Automobile Co.	NE Yokohama, about 1 mile W of Tsurumi River mouth.	39°39'N 139°40'E	EPI BEI	A TE	One of 2 largest Japanese motor vehicle plants. Produces military trucks, artillery tractors, small caliber shells and merchant ship guns.
90:17-523 Tokyo (Japan)	Japan Radio & Phonograph Co.	NE Yokohama, about 1 mile W of Tsurumi River mouth.	35°29'N 139°40'E	EPI	LM	Produces field radios for Army use.
90:17-539 Tokyo (Japan)	Nakajima Aircraft, Tanashi Foundry	1 mile N of Tanashi Town, and 2 miles NW of Nakajima Musashino-Tama Plant (90:17-357).	35°44'N 139°32'E	EPI	AC	Important producer of castings and forgings for the Musashino-Tama Plant (90:17-357); also tests engines from that plant.

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CONFIDENTIAL

SHEETATI
 DATE20 June 1945

JOINT TARGET GROUP, WASHINGTON, D. C.
 AIR TARGET INDEX — JAPANESE WAR
 NUMERICAL TARGET INDEX

OBJECTIVE AREA 90:17—TOKYO (JAPAN)—(Continued)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
90:17-541 Tokyo (Japan)	Oriental Otis Elevator Co.	S Tokyo about 1½ miles N of Tama River Bridges (90:17-1367).	35°33'N 139°43'E	EPI	A	Produces machine gun mountings, bomb racks, gun turrets.
90:17-551 Tokyo (Japan)	Meidensha Elec. Equip. Co. Factory No. 1	S Tokyo near Bay, just NW of Oi RR Works (90:17-370).	35°37'N 139°44'E	EPI	LM	Producer of small motors, generators and electrical equipment for aircraft detection.
90:17-573 Tokyo (Japan)	Miyata Engineering Works	S Tokyo, about 1 mile N of Tama River Bridges (90:17-1367).	35°33'N 139°43'E	EPI BEI	AC TE	Produces aircraft parts, motorcycles and other military equipment.
90:17-791 Tokyo (Japan)	Showa Aircraft	2 miles NW of Tachikawa and 2.7 miles W of Tachikawa Aircraft (90:17-792).	35°43'N 139°22'E	EPI	AC	Assembles transport and trainer aircraft.
90:17-792 Tokyo (Japan)	Tachikawa Aircraft	N edge of Tachikawa, bounded on W by Tachikawa Airfield.	35°42'N 139°25'E	EPI	AC	Assembles Army combat and trainer aircraft, 8% of total combat aircraft.
90:17-799 Tokyo (Japan)	Mitsubishi Heavy Industry, Oimachi Plant	SW Tokyo near waterfront about ½ mile SW of Oi RR Works (90:17-370) and adjoining Nippon Light Works to the E.	35°36'N 139°44'E	EPI	AC A	Reported to manufacture aero-engines. Possibly part of Mitsubishi tank factory.
90:17-826 Tokyo (Japan)	Fujikura Elec. Cable Wks.	Tokyo, NE of Harbor at juncture of Shiohama and Heiku Rivers	35°40'N 139°48'E	BEI	MMT	One of largest producers of telephone, telegraph and television cables, submarine cable accessories and communications wires.
90:17-879 Tokyo (Japan)	Yodobashi Filter Plant	In W Tokyo, NW of Shinjuku Station.	35°40'N 139°45'E			One of the primary filtering, pumping and distribution points in the Tokyo water supply system.
90:17-880 Tokyo (Japan)	Konishi Photo Works	W Tokyo ½ mile W of Shinyuku Station & RR Junction. (90:17-1374) and just W of Yodobashi Reservoir Filter Beds.	35°41'N 139°42'E	BPI EPI	C A	All types of photo equipment. Reported partial conversion to shell fuses, airplane gunsight circles, sensitized aluminum sheets.
90:17-882 Tokyo (Japan)	Ikegai Machine Foundry	Tokyo near Harbor about 2 miles S of Imperial Palace just NE of Shinagawa RR Yards (90:17-364).	35°39'N 139°45'E	BEI	MMT	Minor producer of machine tools, components.
90:17-883 Tokyo (Japan)	Ikegai Motor Plant	Tokyo near Harbor, about 2 miles S of Imperial Palace, NE of Shinagawa RR Yards (90:17-364).	35°39'N 139°45'E	BEI	TE	Internal combustion engines.

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CONFIDENTIAL

JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
NUMERICAL TARGET INDEX

SHEETATI
 DATE20 June 1945

OBJECTIVE AREA 90:17—TOKYO (JAPAN)—(Continued)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
90:17-885 Tokyo (Japan)	Takeshiba Pier	Tokyo Harbor adjoining Hinode-Cho Pier. (90:17-886).	35°39'N 139°46'E	BSU	S	Storage and loading facilities.
90:17-886 Tokyo (Japan)	Hinode-Cho Pier	Tokyo Harbor adjoining Takeshiba Pier (90:17-885).	35°39'N 139°46'E	BSU	S	RR connections, storage facilities.
90:17-887 Tokyo (Japan)	Shibaura Wharf	Tokyo Harbor, southernmost pier.	35°38'N 139°46'E	BSU	S	Storage; rail connection.
90:17-888 Tokyo (Japan)	Oki Electric Co., Plant No. 1	Tokyo near Harbor adjoining the NE corner of the Shinagawa RR Yards (90:17-364).	35°38'N 139°45'E	EPI	LM	Small plant of company producing telephone equipment.
90:17-889 Tokyo (Japan)	Nippon Elec. Co., Factory No. 3	Tokyo near harbor. Midway between N tip of Shinagawa RR yards (Target 90:17-364) and Shibaura wharf (Target 90:17-887).	35°38'N 139°45'E	EPI	LM	Small research laboratory reported working for Navy.
90:17-894 Tokyo (Japan)	Imperial Government Railway Shops	Omiya, 17 miles N NW of Imperial Palace, Tokyo.	35°56'N 139°38'E	BEI BSU	TE RRT	Major RR repair and manufacturing center for locomotives and rolling stock.
90:17-899 Tokyo (Japan)	Japan Military Goods Co., Tomioka Plant	Just S of Tomioka midway between Yokohama and Yokosuka W of Shonan Elec. RR tracks.	35°21'N 139°38'E	EPI BEI MS	A MMT M	Leading private producer of automatic weapons and ammunition and of high precision machine tools.
90:17-904 Tokyo (Japan)	Sakurada Engineering Co. Wks.	Joto district of NE Tokyo, 1/2 mile W of Ara River.	35°41'N 139°51'E	BEI	MMT TE	Produces girders, etc., chemical machinery, RR equipment. May produce some airplane parts, carburetors.
90:17-907 Tokyo (Japan)	Tokyo Gas Co., Sunamachi Branch	N and S of Onagigawa Canal, NE Tokyo, midway between Sumida and Ara Rivers.	35°41'N 139°48'E	BPI	C CIS	2 plants either side of canal. Smallest of 3 Tokyo gas plants. Coke by-products.
90:17-910 Tokyo (Japan)	Rising Sun Petroleum Terminal	In NE Tokyo on Joban RR 2 miles E of Sumida River.	35°42'N 139°49'E	MS	P	Small storage tank farm.
90:17-911 Tokyo (Japan)	Ogura Oil Co.	Joto district of NE Tokyo.	35°41'N 139°49'E	EPI	P	Small refinery.
90:17-912 Tokyo (Japan)	Nisshin Spinning Mill	1/2 mile N of Katagawa Canal about midway between Sumida and Naka Rivers.	35°42'N 139°49'E			Two adjacent spinning mills reported converted to unspecified military production.

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SHEETATI
 DATE.....20 June 1945

JOINT TARGET GROUP, WASHINGTON, D. C.
 AIR TARGET INDEX—JAPANESE WAR
 NUMERICAL TARGET INDEX

OBJECTIVE AREA 90:17—TOKYO (JAPAN)—(Continued)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
90:17-913 Tokyo (Japan)	Hattori Co.	Tokyo W of Yokojikkengawa Canal. Just N of Kinshi Park.	35°42'N 139°49'E	EPI	LM A	Produces precision instruments, including chronometers, AA fire control equipment and other ordnance apparatus.
90:17-914 Tokyo (Japan)	Oriental Weaving Co.	NE Tokyo, adjacent to Target 90:17-915.	35°41'N 139°50'E	EPI	A	Large textile mill reported converted to munitions components.
90:17-915 Tokyo (Japan)	Oriental Weaving Co.	E Tokyo. Just N of Katagawa Canal. 1/3 mile E of Target 90:17-914.	35°41'N 139°50'E	EPI	A	Textile mill possibly converted to making munitions components.
90:17-916 Tokyo (Japan)	Hitachi Engineering Works, Kameido Plant	On S bank of Naka River at Joban Line RR bridge on Tokaido RR.	35°42'N 139°50'E	BEI	MMT	Important manufacturer of heavy electrical equipment including generators, turbines, electric motors, compressors.
90:17-918 Tokyo (Japan)	Niigata Iron Works, Tokyo Plant	S Tokyo about 3 miles W of Haneda airport.	35°34'N 139°43'E	BEI EPI	MMT TE A	Produces machine tools, Diesel engines, pumps, compressors, rolling stock, submarine motors, Diesel trucks.
90:17-919 Tokyo (Japan)	Tokyo Measuring Instrument Works	S Tokyo, 2 miles NW of Haneda Airport.	35°34'N 139°44'E	EPI	LM	Produces AA equipment and Naval instruments.
90:17-1331 Tokyo (Japan)	Kayaba Engineering Co.	On reclaimed land in Tokyo Harbor, S of Mitsubishi Electric, Shibaura Plant (90:17-327).	35°38'N 139°46'E	EPI	AC	Producer of aircraft components. Location of this target shifted to site formerly designated as 90:17-354. "Shibaura Machine Tool Company"—which is now cancelled. Important producer of landing gear and undercarriages.
90:17-1332 Tokyo (Japan)	Rolling Stock Co.	In S Tokyo, on Tokaido Main Line about 1 mile N of Tama River.	35°34'N 139°43'E	EPI BEI	A MMT	Branch works of important RR equipment and ordnance producer.
90:17-1333 Tokyo (Japan)	Nippon Typewriter Co.	SW Tokyo, about 2 miles SW of Shinjuku Station and RR Junction (90:17-1374).	35°40'N 139°41'E	EPI	A	Precision ordnance components.
90:17-1334 Tokyo (Japan)	Asano Karite Co.	In Hadagaya Ward, W Yokohama about 3 1/2 miles W of Yokohama Harbor.	35°27'N 139°35'E	EPI	A	Secondary explosives plant in scattered small buildings.
90:17-1336 Tokyo (Japan)	Navy Arsenal	N of Hiratsuka Village, just W of Sagami River.	35°20'N 139°21'E	EPI MS	A M	Major arsenal, ammunition, explosives and storage area.
90:17-1337 Tokyo (Japan)	Tsurumi Army & Navy Stores	Kawasaki waterfront at mouth of Tsurumi River.	35°29'N 139°41'E	MS	M	Large military storage area.
90:17-1338 Tokyo (Japan)	Inflammable Storage Docks	Yokohama Harbor.	35°26'N 139°40'E	MS	M	Transit sheds.
90:17-1342 Tokyo (Japan)	Japan Machine Industry	In NE Tokyo on N end of Yokojikkengawa Canal.	35°42'N 139°49'E	EPI BEI	A TE	Produces military equipment, bicycles and auto parts.

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JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
NUMERICAL TARGET INDEX

SHEETATI
 DATE.20 June 1945

OBJECTIVE AREA 90:17—TOKYO (JAPAN)—(Continued)

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90:17-1343 Tokyo (Japan)	Ishikawajima Motor Co.	Kawasaki waterfront, directly N of Shibaura Engineering Works (90:17-133).	35°29'N 139°42'E	BEI	MMT TE	Light Diesel engines for ships.
90:17-1345 Tokyo (Japan)	Tokyo Municipality Steam Plant and Shiba Gas Works.	In SW Tokyo. Just NE of Shinagawa RR Yards (Target 90:17-364).	35°39'N 139°45'E	BSU	EP	One of principal Tokyo gas works and serves as standby power plant.
90:17-1347 Tokyo (Japan)	Japan Service Co.	E Kawasaki on Tama River just E of Fuji Steel Works of Imp. Iron and Steel (90:17-56).	35°32'N 139°44'E	BPI	CIS	Modern stainless steel forging mill. Supplies heavy chemical machinery.
90:17-1348 Tokyo (Japan)	Toho Steel Foundry Co.	NW Tokyo on former island in Ara River.	35°46'N 139°41'E	BPI	CIS	Steel furnaces, rolling mills, foundries, rod and bar mill.
90:17-1349 Tokyo (Japan)	Japan Special Steel Works	In SE Tokyo. Exact location unknown.	35°40'N 139°50'E	BPI	CIS	Electric furnaces. 1937 steel production 18,000 tons.
90:17-1350 Tokyo (Japan)	Tokyo Kozai Co.	In N Tokyo on Katagawa Canal.	35°41'N 139°50'E	BPI	CIS	Medium size producer of steel ingots, forgings, polished steel, steel springs.
90:17-1351 Tokyo (Japan)	Tokyo Nakayama Iron Works	Kawasaki waterfront. Just N of Petroleum Center (90:17-128).	35°30'N 139°42'E	BPI	CIS	Small producer of sheet and galvanized products.
90:17-1353 Tokyo (Japan)	Niigata Iron Works, Urawa Plant	In Urawa, 13 miles N of Imperial Palace.	35°52'N 139°39'E	BSU	TE	RR rolling stock.
90:17-1354 Tokyo (Japan)	Oriental Babcock Co.	S of Yokohama on Tokyo Bay. Near mouth and on W bank of Horikama River.	35°25'N 139°38'E	BEI	MMT	Produces boilers and general machinery.
90:17-1355 Tokyo (Japan)	Japan Steel Bearing Co., Osaki Plant	In S Tokyo just NE of Meidensha Electrical Equipment Co., Factory No. 1 (90:17-551).	35°37'N 139°44'E	EPI	LM	With Fujisawa Plant (90:17-1356) most important bearing plant in Japan. Combined output: 20,000 NSK bearings per day.
90:17-1356 Tokyo (Japan)	Japan Steel Bearing Co. Fujisawa Plant	10 miles SW of Yokohama Harbor. At Fujisawa, W of RR station.	35°21'N 139°29'E	EPI	LM	With Tokyo Branch (90:17-1355), most important bearing plant in Japan. Combined production: 20,000 NSK bearings a day.
90:17-1357 Tokyo (Japan)	Oriental Precision Machinery Co.	In S Tokyo on Tama River about 3/4 mile W of N end of Tsurumi Shunting Yard (90:17-112).	35°34'N 139°41'E	BEI	MMT	Producer of machine tools.
90:17-1358 Tokyo (Japan)	Riken Heavy Ind. Co.	Oji district of N Tokyo, W of Sumida R.	35°46'N 139°43'E	BEI	MMT	Produces drills, cutters, gauge blocks and lathes.

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SHEETATI
 DATE.20 June 1945

JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
 NUMERICAL TARGET INDEX

OBJECTIVE AREA 90:17—TOKYO (JAPAN)—(Continued)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
90:17-1359 Tokyo (Japan)	Nippon Piston Ring Co.	In Kawaguchi E of RR and N of Ara River.	35°47'N 139°45'E	EPI	LM	High grade piston rings for aircraft.
90:17-1360 Tokyo (Japan)	Ishii Iron Works Ltd.	In Kamata district of S Tokyo.	35°32'N 139°43'E	BEI	MMT	Produces chemical equipment and machine tools. Minor plant.
90:17-1361 Tokyo (Japan)	Kokusan Machinery Co.	In S Tokyo about 1 3/4 miles N NW of Shinagawa Station.	35°39'N 139°43'E	BEI	MMT	Produces about 200 turret lathes per month; signal apparatus.
90:17-1362 Tokyo (Japan)	Kitashin Elec. Eng. Co.	In S Tokyo, about 1 mile E of N end of Tsurumi Shunting Yard (90:17-112).	35°34'N 139°42'E	EPI	LM	Produces aircraft indicating instruments and navigation instruments for Navy.
90:17-1363 Tokyo (Japan)	Shoun Engineering Co.	At Ofuna, 8 miles W NW of Yokosuka Harbor.	35°21'N 139°32'E	BEI	MMT	Produces machines for making ball and roller bearings.
90:17-1364 Tokyo (Japan)	Physico-Chemical Industries	In Central Tokyo about 3/4 mile SW of Tabata Station.	35°43'N 139°45'E	BEI EPI	MMT LM	Research center for "Riken" group of war industries.
90:17-1365 Tokyo (Japan)	Japan Bakelite Co.	In NE Tokyo on Sumida River.	35°43'N 139°49'E	BPI	C	Leading Far East producer of metal substitutes for aircraft, naval vessels, tanks, bombs and communications.
90:17-1367 Tokyo (Japan)	Tama River Bridges	In N Kawasaki about 4 1/2 miles from Tama River mouth.	35°32'N 139°43'E	BSU	RRT	On Tokaido Line. There are by-pass bridges to the N.
90:17-1368 Tokyo (Japan)	Akabane RR Bridge and Junction	In N Tokyo. Bridge spans Ara and Sumida Rivers.	35°46'N 139°44'E	BSU	RRT	One of a number of RR outlets N of Tokyo City.
90:17-1369 Tokyo (Japan)	Tsurumi River Bridges	In S Kawasaki about 2 1/2 miles from Tsurumi River mouth.	35°31'N 139°41'E	BSU	RRT	Multiple track bridge on Tokaido Line. Smaller by-passes above and below.
90:17:1370 Tokyo (Japan)	Sumida River Bridge, and Sumida River RR Yard of Joban Line.	In NE Tokyo near right angle bend in Sumida River.	35°44'N 139°48'E	BSU	RRT	With the Arakawa River Bridge (90:17-1371) controls a primary outlet NE out of Tokyo.
90:17-1371 Tokyo (Japan)	Arakawa River Bridge, Joban & Tobu RR	In NE Tokyo about 1 mile N of Sumida River Bridge (90:17-1370).	35°45'N 139°49'E	BSU	RRT	With Sumida River Bridge (90:17-1370) controls a primary NE outlet from Tokyo.
90:17-1372 Tokyo (Japan)	Sumida River Bridge of Sobu RR, Ryogoku Station and RR Yard	Central Tokyo just N of Katagawa Canal.	35°41'N 139°48'E	BSU	RRT	Bridge serves Sobu RR E out of Tokyo. Yard chiefly serves Koto Wholesale Market.
90:17-1373 Tokyo (Japan)	Sobu RR Bridge, Arakawa River and Shinkoiwa Yard Junction	In NE Tokyo about 4 miles from mouth of Arakawa River.	35°43'N 139°51'E	BSU	RRT	With Sumida River Bridge of Sobu RR (90:17-1372), serves Sobu RR E out of Tokyo.
90:17-1374 Tokyo (Japan)	Shinjuku Station and RR Junction	In Central Tokyo just NW of Shinjuku Imperial Park	35°41'N 139°43'E	BSU	RRT	One of three important Tokyo Stations. Focus of most W lines, including Tokaido

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JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
NUMERICAL TARGET INDEX

SHEET **ATI**DATE **20 June 1945****OBJECTIVE AREA 90:17—TOKYO (JAPAN)—(Continued)**

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
90:17-1375 Tokyo (Japan)	Hachioji Junction and Bridge	SE edge of Hachioji, 23 miles W of Imperial Palace.	35°39'N 139°20'E	BSU	RRT	Outlying junction of Chuo and transinsular lines.
90:17-1376 Tokyo (Japan)	Ofuna RR Junction	At Ofuna 8 miles NW of Yokosuka Harbor.	35°21'N 139°32'E	BSU	RRT	Tokaido Mainline connection with spur to Yokosuka Naval Base.
90:17-1377 Tokyo (Japan)	Sagami River Bridge (Tokaido Line)	Near Sagami Bay, 17 miles W of Yokosuka Harbor. Navy Arsenal (90:17-1336) just NW of bridges.	35°20'N 139°22'E	BSU	RRT	Two bridges between Chigasaki and Hiratsuka.
90:17-1390 Tokyo (Japan)	Hitachi-Solex Aircraft Works	At Totsuka, 7 miles SW of Yokohama Harbor.	35°24'N 139°32'E	EPI	AC	Produces aircraft carburetors, and possibly other aero engine parts.
90:17-1391 Tokyo (Japan)	Ishikawajima Engine Plant	At Tomioka, on W shore of Tokyo Bay 5 miles S of Yokohama Harbor.	35°22'N 139°38'E	EPI	AC	Manufactures engines for Navy aircraft.
90:17-1392 Tokyo (Japan)	Yokosuka Naval Aircraft Factory & Aeronautical Research Center	N of Yokosuka on N entrance to Nagaura harbor S of Oppama Naval Air Station (90:17-298).	35°18'N 139°39'E	EPI	AC LM	Most important naval air experimental center. Produces new type aircraft and engines.
90:17-1394 Tokyo (Japan)	Kanegafuchi Aircraft Parts Plant	N Tokyo, on E bank of Sumida River N of Japan Bakelite Company (90:17-1365).	35°44'N 139°40'E	EPI	A	Large spinning mill probably converted to ordnance components. Formerly thought to be making a/c parts.
90:17-1395 Tokyo (Japan)	Shoda Aircraft	NW Tokyo, 1 3/4 miles SSE of Nakajima Musashino-Tama Plant (90:17-357).	35°41'N 139°34'E	EPI	AC	Function and identity uncertain. Reported production of trainers and aero-engines but layout suggests manufacture of parts and sub assembly.
90:17-1396 Tokyo (Japan)	Tsurumi Soda Co.	In N Yokohama at mouth of Tsurumi River.	35°29'N 139°41'E	BPI	C	Important producer of caustic soda, with chlorine an important by-product.
90:17-1397 Tokyo (Japan)	Japan Refining Works	In E Tokyo at junction of Ara River and Onagigawa Canal.	35°41'N 139°51'E	BPI	C	Produces chemicals for match manufacture, bleaching textiles, leather tanning, fire proofing, purification of gases.
90:17-1398 Tokyo (Japan)	Tokyo Gas Co., Omori Branch	In S Tokyo on Tokyo Bay.	35°34'N 139°45'E	BPI	CIS C	Illuminating gas works producing coke and nitrogen.
90:17-1399 Tokyo (Japan)	Hodogaya Soda, Yokohama Plant	In W Yokohama about 1 1/2 mile from Yokohama Harbor.	35°27'N 139°36'E	BPI	C	Large producer: caustic soda, benzoic acid and bleaching powders. Could produce poison gases.
90:17-1400 Tokyo (Japan)	Hodogaya Soda, Tokyo Plant	In NW Tokyo on W bank of Sumida River	35°46'N 139°45'E	BPI	C	Supplements production of Yokohama Branch. (90:17-1399.)
90:17-1401 Tokyo (Japan)	Japan Artificial Fertilizer, Tokyo Plant	In E Tokyo. Believed to be near mouth of Ara River.	35°41'N 139°51'E	BPI	C	Produces sulfuric acid, chemicals for fertilizers

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SHEETATI
 DATE.....20 June 1945

JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
 NUMERICAL TARGET INDEX

OBJECTIVE AREA 90:17—TOKYO (JAPAN)—(Continued)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
90:17-1403 Tokyo (Japan)	Tomioka Seaplane Base	At Sugita Point about midway between Yokohama and Yokosuka Harbors	35°22'N 139°38'E	EPI	AC	Adjoins Ishikawajima Engine Plant (90:17-1391) Maintenance and repair of Navy flying boats and seaplanes.
90:17-1418 Tokyo (Japan)	Marunouchi Telephone Exchange	3/4 mile E of Imperial Palace and just N of Tokyo Central Station (90:17-367).	35°41'N 139°46'E			One of the most important communication centers in Japan.
90:17-1421 Tokyo (Japan)	Meidensha Elec Equip. Co., Factory No. 2	In S Tokyo. On Tokyo Bay S of Haneda Airport (90:17-337).	35°33'N 139°46'E	BEI	MMT	Produces heavy electrical equipment for Army and Navy.
90:17-1430 Tokyo (Japan)	Nippon Elec. Wire & Cable Co.	N Tokyo E of first bridge over Sumida River N of Kotota bridge.	35°43'N 139°49'E	BEI	MMT	Produces rubber insulated and lead-covered wire and cable.
90:17-1431 Tokyo (Japan)	Bridgestone Tire Co.	7 miles SW of Yokohama Harbor at Totsuka, 1/2 mile N of Totsuka Air Base.	35°24'N 139°32'E	BEI	TE	5th most important rubber factory in Far East. Tires and tubes (8% Jap total), boots for Army and Navy, etc. Own steam power plant.
90:17-1432 Tokyo (Japan)	Yokohama Harbor Passenger Wharves	S Yokohama Harbor.	35°27'N 139°39'E	BSU	S	Can handle 50,000-ton ships. RR spurs, freight depot, 100-ton crane, warehouses.
90:17-1433 Tokyo (Japan)	Yokohama Main Pier	S Yokohama Harbor just E of Yokohama Harbor Passenger Wharves (90:17-1432).	35°27'N 139°39'E	BSU	S	Largest pier in Yokohama. Travelling cranes.
90:17-1437 Tokyo (Japan)	Mitsubishi Piece Goods Wharf.	Kawasaki waterfront between Mitsubishi Coal Depot (90:17-191) and Mitsubishi Oil Refinery (90:17-116).	35°30'N 139°43'E	BSU MS	S M	Stores overseas goods. 2 cranes, warehouses.
90:17-1438 Tokyo (Japan)	Kyoritsu Warehouse	W Central Yokohama Harbor just N of docks of Yokohama Dockyard (90:17-69).	35°27'N 139°38'E	BSU MS	S M	Frozen food storage. RR spur.
90:17-1439 Tokyo (Japan)	Yokohama Central Warehouse Market	N Yokohama Harbor adjacent to and W of Asano Dockyard (90:17-70).	35°28'N 139°38'E	BSU	S	No further information.
90:17-1440 Tokyo (Japan)	Mitsubishi Warehouse	S Yokohama Harbor adjacent to and SE of Yokohama Harbor Passenger Wharves (90:17-1432).	35°27'N 139°39'E	BSU	S	Used for landing, shipping and forwarding.
90:17-1442 Tokyo (Japan)	Yokohama Warehouse, South	N Yokohama about 1/2 mile N of Asano Dockyard (90:17-70).	35°28'N 139°39'E	BSU	S	No further information.

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JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
 NUMERICAL TARGET INDEX

SHEET AT1
 DATE 20 June 1945

OBJECTIVE AREA 90:17—TOKYO (JAPAN)—(Continued)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
90:17-1446 Tokyo (Japan)	East Asia Dev. Co. Warehouses	N side canal N of W tip of western-most of 3 large reclaimed islands N of Yokohama Harbor.	35°29'N 139°39'E	BSU	S	Warehouses, RR spur to Tokaido Main Line.
90:17-1448 Tokyo (Japan)	Tsukiji Market and Wholesale Warehouse	Adjacent to and NE of Hama Palace, W bank mouth of Sumida River, Tokyo.	35°40'N 139°46'E	BSU	S	Most important food distributing center in area. Numerous piers.
90:17-1449 Tokyo (Japan)	Kanda Market	At RR junction about 1 mile NE of Imperial Palace grounds, Tokyo.	35°42'N 139°47'E			Branch of Tsukiji Market (90:17-1448). Distributing center for food shipped by rail and water. Truck depots.
90:17-1450 Tokyo (Japan)	Koto Market	Central Tokyo, E bank of Sumida River, just S of Kuramae Bridge, and N of Ryogoku RR Station and Yards.	35°41'N 139°48'E			Main branch of Tsukiji Market (90:17-1448). Food distributing center.
90:17-1451 Tokyo (Japan)	Naniwa Warehouse	Waterfront Yokohama, 1/4 mile N of Asano Dockyard (90:17-70).	35°28'N 139°39'E	BSU	S	Storage and transit sheds.
90:17-1459 Tokyo (Japan)	Susaki Dockyard	NE corner Tokyo Harbor.	35°39'N 139°48'E	BEI BSU	TE S	2 drydocks, 6 ways for construction and repair.
90:17-1460 Tokyo (Japan)	Uraga Dockyard No. 1	NW corner Uraga Bay.	35°15'N 139°43'E	BEI EPI BSU	TE A S	Facilities for building all types naval vessels up to large cruisers, also passenger liners, etc.
90:17-1461 Tokyo (Japan)	Uraga Dockyard No. 2	SE corner Uraga Bay.	35°15'N 139°43'E	BEI EPI BSU	TE A S	Operated as part of Dockyard No. 1 (90:17-1460)
90:17-1485 Tokyo (Japan)	So. Manchurian Wharf and Warehouses	NW Kawasaki waterfront adjacent to and S of Hayama Petroleum Refinery (90:17-127).	35°30'N 139°44'E	BSU	S	Cranes, warehouses, railroad spur to Kawasaki Freight Yard.
90:17-1493 Tokyo (Japan)	Toshin and Shinko Warehouses	S Yokohama Harbor on and immediately S of Yokohama Harbor Passenger Wharves (90:17-1432).	35°27'N 139°39'E	MS	M	Devoted to war use.
90:17-1640 Tokyo (Japan)	Japan Steel Bearing Co., Tamakawa Plant	In SW Tokyo, 2 miles N of Tsurumi Shunting Yard (90:17-112)	35°34'N 139°41'E	BPI EPI	CIS LM	Special steel plant.
90:17-1641 Tokyo (Japan)	Tanaka Instrument Mfg. Co.	In SW Tokyo, 1 mile W of Oi Railroad Works (90:17-370)	35°37'N 139°43'E	EPI	AC	Producer of aircraft instruments and parts

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SHEETATI
 DATE20 June 1945

JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
 NUMERICAL TARGET INDEX

OBJECTIVE AREA 90:17—TOKYO (JAPAN)—(Continued)

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90:17-1686 Tokyo (Japan)	Hitachi Engineering Works, Kameari Plant	In Adachi Section of Tokyo, 8 miles NE of Imperial Palace. On W bank Naka River just N of Kameari Station.	35°47'N 139°51'E	BEI EPI	MMT AC	One of largest Hitachi plants, producing A/C engine parts, machine tools, tractors, tank engines and heavy industrial equipment.
90:17-1687 Tokyo (Japan)	Mitsui Machine Tool Co., Okegawa Plant	Along RR line, about 7 miles NNW of Omiya and Imperial Government Railway Shops (90:17-894.)	36°00'N 139°34'E	BEI	MMT	Important producer of all types of grinders.
90:17-1688 Tokyo (Japan)	Hitachi Machine Tool Co.	In Kawasaki, adjacent to and E of Tsurumi Shunting Yard (90:17-112).	35°33'N 139°40'E	BEI	MMT	Important producer of milling machines, slotters, shapers.
90:17-1692 Tokyo (Japan)	Sagami Arsenal	7 miles SE of Hachioji, N of Fuchinobe RR station.	35°35'N 139°23'E	EPI	A	Major arsenal, combat vehicles, major repair center.
90:17-1693 Tokyo (Japan)	Miyata Manufacturing Co.	SW Tokyo near Kawasaki and near Tokyo Bay. 1/2 mile W of Japan Special Steel Co. (90:17-336).	30°34'N 139°44'E	EPI	LM	Manufacturer of electronic tubes, also assembling of radio sets.
90:17-1694 Tokyo (Japan)	Japan Wireless Co., Factory No. 1	SW Tokyo about 1 mile SW of S end of Shinagawa RR Yards (90:17-364). Exact building not located.	35°37'N 139°43'E	EPI	LM	Company manufactures radio tubes, sets and D/F equipment. Products of this plant not known.
90:17-1695 Tokyo (Japan)	Japan Wireless Co., Factory No. 2	In SW Tokyo, about 4 miles inland from point on Tokyo Bay just S of group of 5 islands.	35°36'N 139°42'E	EPI	LM	Company manufactures radio tubes, sets and D/F equipment. Products of this plant not known.
90:17-1696 Tokyo (Japan)	Japan Wireless Co., Factory No. 3	W of Tokyo, about 1 1/2 miles directly S of Nakajima Aircraft, Musashino Tama Plant (90:17-357). Precise location unknown.	35°41'N 139°33'E	EPI	LM	Company manufactures radio tubes, sets and D/F equipment. This plant believed to make tubes.
90:17-1697 Tokyo (Japan)	Japan Wireless Co., Factory No. 4	In W outskirts of Tokyo.	35°38'N 139°35'E	EPI	LM	Aircraft communications equipment.
90:17-2008 (Tokyo (Japan)	Tachikawa Army Air Arsenal	On NW edge of Tachikawa. 21 mi. W of Tokyo Palace	35°42'N 139°24'E	EPI	AC LM	Factory section of arsenal (NW corner) manufactures aircraft and aero engines on limited scale. Arsenal also has aircraft modification, repair and research and important electronics laboratory.
90:17-2009 Tokyo (Japan)	Hitachi Aircraft, Tachikawa Plant	20 miles WNW of Tokyo Palace. 1 mile N of Tachikawa Aircraft (90:17-792).	35°44'N 139°25'E	EPI	AC	Important producer of low and medium powered aero-engines.

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AIR TARGET INDEX — JAPANESE WAR
 NUMERICAL TARGET INDEX

SHEETATI

DATE20 June 1945

OBJECTIVE AREA 90:17—TOKYO (JAPAN)—(Continued)

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90:17-2015 Tokyo (Japan)	Japan International Aircraft, Hiratsuka Plant	NE Hiratsuka.	35°20'N 139°21'E	EPI	AC	Principally important as one of 4 major propeller plants. Also makes gliders, transports and possibly BAKA suicide planes.
90:17-2026 Tokyo (Japan)	Ebara Mfg. Co., Kamata Plant	In S Tokyo	35°33'N 139°45'E	BEI	MMT	Major producer of machine tools used in ordnance manufacture. Large size boring and turning mills.
90:17-2027 Tokyo (Japan)	Ebara Mfg. Co., Kawasaki Plant	In W. Kawasaki, in Sumiyoshi district.	35°34'N 139°39'E	BEI	MMT	Producer of machine tools for ordnance manufacture. Large size boring and turning mills.
90:17-2028 Tokyo (Japan)	Ikegai Iron Works, Mizonoguchi Plant	In NW Kawasaki, in Mizonoguchi district.	35°35'N 139°37'E	BEI	MMT	Major producer of machine tools used in manufacture of aero-engines.
90:17-2029 Tokyo (Japan)	Okamoto Machine Tool Co., Kamata Plant	In S Tokyo	35°34'N 139°42'E	BEI	MMT	Producer of machine tools used in manufacture of aero-engines. Gear grinders and Gleason gear generators.
90:17-2033 Tokyo (Japan)	Fuji Aircraft, Ofuna Plant	3000' S of Ofuna RR Junction (90:17-1376)	35°20'N 139°32'E	EPI	AC	Probable manufacturer of BAKA suicide planes.
90:17-2035 Tokyo (Japan)	Hiratsuka Branch of 2nd Naval Air Arsenal	In Hiratsuka.	35°20'N 139°21'E	EPI	A	Former textile mill, converted to rebuilding of aircraft machine guns.
90:17-2036 Tokyo (Japan)	Japan Gas Engine Co., Samukawa Plant	NE of Hiratsuka.	35°22'N 139°22'E	EPI BEI	A TE	New plant reported producing engines and light military vehicles.
90:17-2037 Tokyo (Japan)	Koshiha Point Oil Storage	Yokosuka 2.5 miles N of Oppama Naval Air Station (90:17-298).	35°22'N 139°39'E	MS	P	Oil storage approximately 1,000,000 barrels capacity.
90:17-2038 Tokyo (Japan)	Army Oil Storage	Kawasaki, directly W of Tokyo Steam Power Plant (90:17-493).	35°30'N 139°43'E	MS	P	Major oil storage target. 21 tank sites but only 10 are intact.
90:17-2042 Tokyo (Japan)	Japan Steel Co., Yokohama Plant	NW of Yokosuka.	35°20'N 139°37'E	EPI MS	A M	One of 3 main plants of leading private ordnance producer. Light and medium armament, steel fabrication.
90:17-2044 Tokyo (Japan)	Diesel Automotive Co., Hino Plant	Hino.	35°41'N 139°24'E	EPI BEI	A TE	A medium size motor vehicle or tank plant.
90:17-2045 Tokyo (Japan)	Ofuna Naval Fuel Research Plant	Just E of Ofuna Junction.	35°22'N 139°33'E	EPI	P	Liquid fuel testing, research and development for Navy.
90:17-2052 Tokyo (Japan)	Yose Hydro Plant	On Sagami River.	35°36'N 139°13'E	BSU	EP	26,000 kw capacity. Of minor importance in Tokyo network.
90:17-2071 Tokyo (Japan)	Kubozawa Hydro Plant	On Sagami River.	35°35'N 139°18'E	BSU	EP	22,000 kw capacity. Of minor importance in Tokyo network.
90:17-2082 Tokyo (Japan)	Japan Optical Mfg. Co., Shiba Plant	1 mile SSW of Imperial Palace.	35°39'N 139°45'E	EPI	A	Range finders, optical instruments.

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SHEETATI
 DATE20 June 1945

JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
 NUMERICAL TARGET INDEX

OBJECTIVE AREA 90:17—TOKYO (JAPAN)—(Continued)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
90:17-2083 Tokyo (Japan)	Municipal Electric Bureau, Shiba Workshops	Tokyo waterfront.	35°38'N 139°45'E	BSU	RRT	Repair center for Tokyo streetcar system.
90:17-2084 Tokyo (Japan)	Tokyo Gas Co., Senju Works	Directly S of Sumida River Bridge and RR Yard (90:17-1370).	35°43'N 139°48'E	BPI	C	Large gas works supplying N Tokyo
90:17-2085 Tokyo (Japan)	Hitachi Engineering Co., Fukugawa Plant	On reclaimed land at head of Tokyo Bay.	35°39'N 139°48'E	BPI	CIS	Alloy steel castings and forgings.
90:17-2086 Tokyo (Japan)	Mitsubishi Heavy Industry, Fukugawa Plant	On reclaimed land at head of Tokyo Bay.	35°39'N 139°47'E	BEI	MMT	Reported production of marine engines.
90:17-2087 Tokyo (Japan)	Kami-Seya Munitions Storage	SE of Tsuruma.	35°29'N 139°29'E	MS	M	Large ammunition storage area.
90:17-2089 Tokyo (Japan)	Tama Branch of Tokyo No. 2 Arsenal	S of Tama River and S of Fuchu.	35°38'N 139°29'E	MS	M	Large ammunition storage and manufacture.
90:17-2095 Tokyo (Japan)	Kawagoe Branch of Tokyo No. 1 Arsenal	About 3 miles SE of Kawagoe.	35°52'N 139°32'E	EPI MS	A M	Large explosives manufacturing and storage area.
90:17-2096 Tokyo (Japan)	Atsugi Aircraft Plant	9 miles W of Yokohama. 1 mile E of Sagami River	35°28'N 139°26'E	EPI	AC	New aircraft plant, probably producing THALIA or making aircraft components.
90:17-2097 Tokyo (Japan)	Nakajima Aircraft, Omiya Engine Plant	1½ miles N of Omiya	35°56'N 139°38'E	EPI	AC	Engine parts mfr. and assembly. Reported to assemble aircraft also.
90:17-2101 Tokyo (Japan)	Adachi Electric Co., Yokohama plant	In NW Yokohama N of Tsurumi River, about 3 miles W of Tsurumi Shunting Yard (90:17-112).	35°32'N 139°38'E	EPI	LM	Largest of 3 plants. D/F and telephone equipment.
90:17-2102 Tokyo (Japan)	Central Industrial Co., Omori Plant	In SW Tokyo, on E side of To-kaido Main Line, about 6,000 feet W of Tokyo Gas Co. Omori Branch. (90:17-1398)	35°34'N 139°44'E	EPI	AC LM	Aircraft electrical components and armament. Also radio set components.
90:17-2103 Tokyo (Japan)	Fuji Aircraft Instrument Co.	SW Tokyo. In complex of targets on E side of Tama River, incl. Kitashin Electric Engineering Co. (90:17-1362).	35°34'N 139°41'E	EPI	LM	Producer of aircraft indicating instruments, e.g. temperature and fuel gauges, automatic pilots.
90:17-2104 Tokyo (Japan)	Furukawa Electric Co., Plant No. 2	In W Yokohama, about 1¼ miles WNW of Furukawa Electric Co. Plant No. 1 (90:17-75).	35°27'N 139°35'E	EPI	LM	Produces storage batteries. Probably also wire and cable.

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JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
 NUMERICAL TARGET INDEX

SHEETATI
 DATE. 20 June 1945

OBJECTIVE AREA 90:17—TOKYO (JAPAN)—(Continued)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
90:17-2105 Tokyo (Japan)	Kokusan Electric Co., Toshima Plant	N Central Tokyo, about 1 mile W of Koishikawa Armory (90:17-214).	35°43'N 139°43'E	EPI	LM	Producer of magnetos and starting equipment for aircraft.
90:17-2106 Tokyo (Japan)	Oana Manufacturing Co., Mukojima Plant	NE Tokyo, E side of Sumida River, adjacent to and SW of Japan Bakelite Co. (90:17-1365).	35°43'N 139°49'E	EPI	LM	Light electrical equipment, mostly for aircraft.
90:17-2107 Tokyo (Japan)	Oriental Communications Equipment Co.	In W Kawasaki, On E side of S end of Tsurumi Shunting Yard (90:17-112).	35°32'N 139°41'E	EPI	LM	Largest of the 4 plants producing radios and D/F equipment.
90:17-2108 Tokyo (Japan)	Tokyo-Shibaura Electric Co., Kyomachi Plant	In S Kawasaki, adjacent to Yokohama Rubber Co. (90:17-141).	35°30'N 139°41'E	EPI	LM	Radio and radar metal components.
90:17-2109 Tokyo (Japan)	Shinagawa Mfg. Co., Tokyo Plant	S Tokyo. About 2,000 feet W of S end of Shinagawa RR Yards (90:17-364).	35°37'N 139°44'E	EPI	LM	Manufacturer of A/C indicating instruments.
90:17-2110 Tokyo (Japan)	Tanaka Instrument Mfg. Co.	S. Tokyo, about 3 000 feet W of Japan Special Steel Co. (90:17-336).	35°34'N 139°44'E	EPI	LM	Manufacturer of A/C indicating instruments.
90:17-2111 Tokyo (Japan)	Tokyo Aircraft Instrument Co., Kawasaki Plant	In N W Kawasaki, About 2,500 feet SW of Nippon Electric Co., Factory No 1. Tama Plant, (90:17-497).	35°34'N 139°40'E	EPI	LM	Major plant of company which is important manufacturer of A/C indicating instruments and largest producer of A/C starters.
90:17-2112 Tokyo (Japan)	Tokyo Aircraft Instrument Co., Komae Plant	Just N of Tama River, SW Tokyo.	35°38'N 139°35'E	EPI	LM	Important plant of company which is important manufacturer of A/C indicating instruments and largest producer of A/C starters.
90:17-2113 Tokyo (Japan)	Tokyo Wireless Electric Co., Kamata Plant	SW Tokyo. In complex of targets on E side of Tama River, including Kitashin Electric Engineering Co. (90:17-1362).	35°34'N 139°41'E	EPI	LM	Company is leading producer of aircraft radio sets.
90:17-2114 Tokyo (Japan)	Tokyo Wireless Electric Co., Kawasaki Plant	In NW Kawasaki, Just W of N end of Tsurumi Shunting Yard (90:17-112).	35°33'N 139°41'E	EPI	LM	Producer of radio sets and components.
90:17-2115 Tokyo (Japan)	Yokogawa Electric Mfg. Co., Koganei Plant	W of Tokyo, About 8,200 feet NW of Tama graveyard, on RR.	35°42'N 139°29'E	EPI	LM	Important producer of light electrical equipment, including electric indicating instruments and A/C magnetos.

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SHEETATI
 DATE.20 June 1945

JOINT TARGET GROUP, WASHINGTON, D. C.
 AIR TARGET INDEX — JAPANESE WAR
 NUMERICAL TARGET INDEX

OBJECTIVE AREA 90:17—TOKYO (JAPAN)—(Continued)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
90:17-2126 Tokyo (Japan)	Hattori Co., Otsuki Branch	NE Tokyo, 3/4 mile SE of Hattori main plant (90:17-913).	35°42'N 139°50'E	EPI	LM	Precision optical and electrical instruments, particularly for ordnance.
90:17-2127 Tokyo (Japan)	Ikegai Iron Works, Kawasaki Plant	Kawasaki—adjacent to and N of Tokyo Special Steel & Chrome Works. (90:17-58).	35°32'N 139°42'E	BEI	MMT	Important producer of lathes, grinders and boring machines.
90:17-2128 Tokyo (Japan)	Okamoto Machine Tool Co., Kawasaki Plant (Hiyoshi-mura)	In Kawasaki, about 8,000' W of Tsurumi Shunting Yard (Kawasaki). (90:17-112).	35°33'N 139°39'E	BEI	MMT	Lathes, gear grinders and generators.
90:17-2130 Tokyo (Japan)	Fujisawa Aircraft Plant	Just N of Fujisawa	35°21'N 139°29'E	EPI	AC	Probable underground aircraft plant.
90:17-2141 Tokyo (Japan)	Tokyo Gas Co., Kanegawa Branch	Yokohama	35°28'N 139°39'E	BPI	CIS C	Gas plant for Yokohama with 40 Koppers coke ovens.
90:17-2146 Tokyo (Japan)	Japan Iron Works, Funabashi Plant	About 7 miles NE of mouth of Arakawa River.	35°42'N 139°59'E	EPI	AC	Makes airframe components.
90:17-2151 Tokyo (Japan)	Joto Oil Refinery	E Tokyo, directly E of Tokyo Kozai Co. (90:17-1350).	35°41'N 139°50'E	EPI	P	Estimated 135,000 barrels storage capacity.
90:17-2200 Tokyo (Japan)	Japan Aircraft, Tomioka Plant	At Tomioka adjoining Ishikawajima Engine Plant, Tomioka (90:17-1391).	35°22'N 139°38'E	EPI	AC	Small scale Navy trainer and float plane manufacture, probably also making BAKA.
90:17-2222 Tokyo (Japan)	Senju Aircraft Parts Plant	4 miles NE of Tokyo Palace. W bank of Sumida River adjoining Sumida RR Yard (90:17-1370).	35°44'N 139°48'E	EPI	AC	Two former spinning mills now believed producing Aircraft parts for Nakajima and Hitachi.
90:17-2230 Tokyo (Japan)	Haramachida Explosives Works	At Haramachida.	35°34'N 139°29'E	MS EPI	M A	Large explosives loading area.
90:17-3399 Tokyo (Japan)	Misaki—Port Area	On Sagami Sea on point below Yokosuka.	35°08'N 139°37'E	BSU	S	Landing.
90:17-3400 Tokyo (Japan)	Yokosuka—Port Area	On SE side of Tokyo Bay.	35°17'N 135°40'E	BSU	S	Naval Base.
90:17-3413 (Tokyo) (Japan)	Uraga—Port Area	On entrance to Tokyo Bay SE of Yokosuka.	35°14'N 139°43'E	BSU	S	Minor traffic.
90:17-3522 Tokyo (Japan)	Kawasaki—Port Area	On Tokyo Bay just S of Tokyo.	35°29'N 139°43'E	BSU	S	Annual capacity about 7,458,000 metric tons. Steel port, shipbuilding, warehouses.

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JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
 NUMERICAL TARGET INDEX

SHEETATI
 DATE. . . . 20 June 1945

OBJECTIVE AREA 90:17—TOKYO (JAPAN)—(Continued)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
90:17-3567 Tokyo (Japan)	Tokyo—Port Area	On Tokyo Bay.	35°39'N 139°46'E	BSU	S	Annual capacity about 7,458,000 metric tons. General industrial products port.
90:17-3582 Tokyo (Japan)	Yokohama—Port Area	On Tokyo Bay S of Tokyo.	35°27'N 139°39'E	BSU	S	Annual capacity about 20,460,000 metric tons. General industrial products port. Shipbuilding.
90:17-3600 Tokyo (Japan)	Tokyo Urban Industrial Concentration No. 1	In North Tokyo. About 1,000' N of Army Arsenal (90:17-206).	35°45'N 139°44'E	MIC	UIC	Site of Tokyo Arsenal main plants and precision instrument plants.
90:17-3601 Tokyo (Japan)	Tokyo Urban Industrial Concentration No. 2	Tokyo Bay, W side. Centered on a point about 6,000' N of Rolling Stock Co. (90:17-1332).	35°34'N 139°43'E	MIC	UIC	Contains many plants producing machine tools, aircraft and ordnance components, precision instruments, industrial machinery, railroad equipment, diesel engines.
90:17-3602 Tokyo (Japan)	Tokyo Urban Industrial Concentration No. 3	Tokyo Harbor, W side. Centered roughly on Nippon Electric Co., Factory No. 2, Mito Plant (90:17-326).	35°39'E 139°45'E	MIC	UIC	Includes important producers of aircraft instruments and components; also machine tools, electronic equipment, optical precision instruments and ordnance components; also military storage and marshalling yards.
90:17-3603 Tokyo (Japan)	Tokyo Urban Industrial Concentration No. 4	In North Tokyo. Centered on a point midway between Kinugawa Steam Power Station 90:17-213 and Nippon Oil Co. (Tokyo).	35°45'N 139°47'E	MIC	UIC	Includes aircraft and ordnance component plants, industrial machinery, some steel products and freight marshalling yards.
90:17-3604 Tokyo (Japan)	Kawasaki Urban Industrial Concentration No. 1	In Kawasaki. Center about 2,000' SE from Nippon Elec. Wire & Cable (90:17-489).	35°31'N 139°42'E	MIC	UIC	Includes three major electronic plants and some plants producing aircraft components, tires, cable, diesel engines and industrial machinery.
90:17-3605 Tokyo (Japan)	Kawasaki Urban Industrial Concentration No. 2	In Tsurumi on Tokyo Bay. Center point about 2,000' E of Tokyo Gas Company, Tsurumi Branch (90:17-481).	35°30'N 139°43'E	MIC	UIC	Contains industrial plants producing heavy electrical equipment, machine tools, ships, marine engines, steel fabrication, synthetic oil equipment, chemicals; also petroleum refining and storage, power plants, military storage.
90:17-3606 Tokyo (Japan)	Kawasaki Urban Industrial Concentration No. 3	In Kitsuki. Centered roughly at N end of Tsurumi Shunting Yard (90:17-112).	35°33'N 139°41'E	MIC	UIC	Contains important electronics and radio plants, machine tool and precision instrument factories and the large Tsurumi Shunting Yard.
90:17-3607 Tokyo (Japan)	Yokohama Urban Industrial Concentration No. 1	On Yokohama Harbor. Centered roughly on Kurada Iron Works (90:17-498)	35°28'N 139°39'E	MIC	UIC	Includes important auto and truck assembly plants, oil refining and storage, alumina and basic chemicals; also some shipyards, electrical equipment plants and military storage.
90:17-3608 Tokyo (Japan)	Yokohama Urban Industrial Concentration No. 2	In Yokohama. Centered roughly 2,000' SE from Furakawa Electric Co., Plant No. 1 (90:17-75).	35°27'N 139°37'E	MIC	UIC	Contains an important shipyard, electrical equipment plants, small chemical plants; extensive freight yard and waterfront storage area.

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SHEETATI

DATE.20 June 1945

JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
 NUMERICAL TARGET INDEX

OBJECTIVE AREA 90:17—TOKYO (JAPAN)—(Continued)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
90:17-4011 Tokyo (Japan)	Tokyo-Shibaura Elec. Co. Factory No. 3, Komukai Plant	On N edge of Kawasaki, on main Tokyo-Yokohama highway, about 4 miles from water- front. Tsurumi Shunting Yard. (90:17-112) is about 3/4 miles to W.	35°33'N 139°42'E	EPI	LM	New plant recently expanded. Produces and assembles military electronic equipment, possibly including tube production.

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JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX—JAPANESE WAR
 NUMERICAL TARGET INDEX

SHEET **ATI**DATE. **20 June 1945****OBJECTIVE AREA 90:18—SHIZUOKA (JAPAN)**

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
90:18-1176 Shizuoka (Japan)	Japan Light Metals Alumina Plant	Across harbor from Shimizu.	35°00'N 138°31'E	BPI	NFM	Largest Japanese bauxite alumina plant. May now be shut down for lack of bauxite.
90:18-1177 Shizuoka (Japan)	Japan Light Metals Aluminum Plant	Kambara, W bank of mouth of Fuji River.	35°07'N 138°37'E	BPI	NFM	Largest Japanese aluminum plant.
90:18-1181 Shizuoka (Japan)	Numazu RR Yards	Numazu.	35°06'N 138°52'E	BSU	RRT	Marshalling yards at junction of old and new Tokaido Lines from Kozu. Change from electric to steam operation here. Probable concentration of electric and steam locomotives.
90:18-1604 Shizuoka (Japan)	Inako Hydro Plant	Fuji River 6 miles W of Omuja, directly E of RR bridge at mouth of branch of river.	35°14'N 138°32'E	BSU	EP	43,000 kw (20,000 kw dry season) Double-cycle, able to feed into Tokyo or Central Honshu networks but normally a supplementary power source for Japan Light Metals Aluminum Plant (90:18-1177).
90:18-1605 Shizuoka (Japan)	Kambara Hydro Plant	NW corner of Japan Light Metals Aluminum Plant (90:18-1177) mouth of Fuji River on Sagami Bay near Kambara.	35°07'N 138°38'E	BSU	EP	54,000 kw. Supplies the aluminum plant. (90:18-1177).
90:18-1609 Shizuoka (Japan)	Oigawa Hydro Plant	N bank of Oi River River across from Aobe RR Station.	35°05'N 138°07'E	BSU	EP	62,000 kw (15,000 kw dry season). Double-frequency plant able to supply either Tokyo or Central Honshu networks.
90:18-2011 Shizuoka (Japan)	Shizuoka Aircraft Engine Works	1 1/3 miles E of Shizuoka station, between a mountain range and the city.	34°59'N 138°25'E	EPI	AC	New engine plant with ultimate potential of 500-600 engines per month. Was coming into large-scale production in 1945.
90:18-2023 Shizuoka (Japan)	Sumitomo Light Metals Co., Shimizu Plant	Directly SE of Shimizu.	34°59'N 138°29'E	EPI	AC	Originally called Shimizu Nippon Gakki. Probably produces plywood and alloy aircraft parts.
90:18-2024 Shizuoka (Japan)	Sumitomo Light Metals Co., Shizuoka Plant	In Shizuoka, directly SW of Shizuoka Aircraft Engine Works (90:18-2011).	34°58'N 138°25'E	EPI	AC	Probably producing aircraft parts.
90:18-2116 Shizuoka (Japan)	Kokusan Electric Co., Mishima Plant	About 1 1/2 miles NE of Namazu RR Yards (90:18-1181).	35°07'N 138°53'E	EPI	LM AC	Important producer of light electrical equipment, particularly magnetos and starting equipment for A/C.
90:18-2150 Shizuoka (Japan)	Shimizu Oil Refinery	On N waterfront of Shimizu, N of vegetable oil refinery.	35°01'N 138°30'E	EPI MS	P P	Estimated 167,000 barrels storage capacity.
90:18-2179 Shizuoka (Japan)	Abe-gawa RR Bridge, (Tokaido Line)	Shizuoka.	34°58'N 138°22'E	BSU	RRT	On bottleneck section of Tokaido Line.
90:18-3581 Shizuoka (Japan)	Shimizu—Port Area	In Suruga Bay in S Central Honshu.	35°01'N 138°30'E	BSU	S	Annual capacity about 1,089,000 metric tons. Aluminum and boat building port.

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JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
NUMERICAL TARGET INDEX

SHEET **ATI**
 DATE **20 June 1945**

OBJECTIVE AREA 90:20—NAGOYA (JAPAN)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
90:20-193 Nagoya (Japan)	Mitsubishi Aircraft Engine Works	NE Nagoya City, 2 1/2 miles E of Nagoya Castle and 1,000 feet N of Chigusa Factory, Nagoya Arsenal (90:20-196).	35°11'N 136°57'E	EPI	AC	One of the 2 largest producers of Japanese aero-engines, producing 40% of the Japanese total.
90:20-194 Nagoya (Japan)	Mitsubishi Aircraft Works	On reclaimed land at the NE corner of Nagoya Harbor. Bounded on N and S by ship canals and the W by Nagoya Harbor.	35°05'N 136°54'E	EPI	AC	Principal Mitsubishi assembly plant, producing newest type Army and Navy planes.
90:20-195 Nagoya (Japan)	Nagoya Steam Power Plant No. 1	In NE corner of Nagoya Harbor, bounded on S and E by Mitsubishi Aircraft Works (90:20-194).	35°05'N 136°54'E	BSU	EP	Second largest steam plant in Nagoya City area and 4th largest of 5 plants in central Honshu region. Capacity 144,000 kw.
90:20-196 Nagoya (Japan)	Chigusa Factory, Nagoya Arsenal	NE Nagoya City, approximately 2 miles ESE of Nagoya Castle and 1/4 mile S of Mitsubishi Aircraft Engine Works (90:20-193).	35°10'N 136°57'E	EPI MS	A M	Important plant among those forming the Nagoya Arsenal. Specializes in ammunition components and the fabrication and repair of medium ordnance.
90:20-197 Nagoya (Japan)	Atsuta Factory, Nagoya Arsenal	S central part of Nagoya City, about 2.8 miles S of Nagoya Castle.	35°08'N 136°55'E	EPI	A	First or second in importance of the plants forming the Nagoya Arsenal. Specializes in medium and heavy field artillery, but is believed also to produce AA and A/C guns. No storage areas.
90:20-198 Nagoya (Japan)	Aichi Ordnance Plant	S central Nagoya City, on W bank of Hori River.	35°07'N 136°54'E	EPI	A LM	Formerly named "Aichi Aircraft Works, Atsuta Plant." Reported important for Naval instruments, both electrical and mechanical. Also magnetic mines, torpedo parts, AA gun directors.
90:20-199 Nagoya (Japan)	Aichi Aircraft Works, Mizuho Branch	S Central Nagoya, adjacent to and E of Atsuta Factory, Nagoya Arsenal (90:20-197).	35°08'N 136°55'E	EPI	AC	Produces aircraft hydraulic equipment, landing gear and aircraft instruments. Makes minor aircraft sections for other Aichi airframe plants.
90:20-200 Nagoya (Japan)	Toriimatsu Factory, Nagoya Arsenal	In open country NE of Nagoya City, 5 miles NE of Nagoya Castle	35°14'N 136°57'E	EPI MS	A M	Part of Nagoya Arsenal and second largest Japanese manufacturer of heavy ordnance. Believed a producer of medium tanks and heavy field artillery. Produces ammunition. Extensive storage.
90:20-240 Nagoya (Japan)	Kawasaki Aircraft, Kagamigahara Plant	5 miles E of Gifu N of and adjacent to Kagamigahara Military Airport (90:20-249).	35°24'N 136°52'E	EPI	AC	Principal Kawasaki airframe assembly plant. Makes Army fighters and bombers.
90:20-241 Nagoya (Japan)	Nippon Vehicle Manufacturing Co.	In S central Nagoya, 3 miles S of Nagoya Castle. Just south of Atsuta Factory, Nagoya Arsenal (90:20-197).	35°07'N 136°55'E	EPI BEI	A TE	A fairly large pre-war RR rolling stock producer, probably now partly converted to tank and/or armored car fabrication.

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SHEETATI
 DATE.20 June 1945

JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX — JAPANESE WAR
 NUMERICAL TARGET INDEX

OBJECTIVE AREA 90:20—NAGOYA (JAPAN)—(Continued)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
90:20-242 Nagoya (Japan)	Okamoto Aircraft Works, Showa Plant	S central Nagoya, approximately 2½ miles SSE of Nagoya Castle.	35°08'N 136°55'E	EPI	AC	One of several plants of this company manufacturing A/C parts, including landing gear.
90:20-247A Nagoya (Japan)	Daido Electric Steel, Oe Plant	On reclaimed land in Nagoya Harbor, SE of Mitsubishi Aircraft Works. (90:20-194).	35°05'N 136°54'E	BPI	CIS	Exact production unknown; probable casting and forging plant.
90:20-247B Nagoya (Japan)	Daido Electric Steel, Atsuta Plant	In S central Nagoya, about ¼ mile S of Atsuta Factory, Nagoya Arsenal (90:20-197).	35°07'N 136°55'E	BPI	CIS	Small Daido plant. Capacity 35,000 tons of special steel annually.
90:20-247C Nagoya (Japan)	Daido Electric Steel, Tsukiji Plant	On E bank at mouth of Hori River, Nagoya City.	35°05'N 136°54'E	BPI	CIS	Estimated steel production 172,000 tons annually. Produces special steel products and alloys.
90:20-247D Nagoya (Japan)	Daido Electric Steel, Minami Plant	SE edge of Nagoya City, E of Nagoya Harbor.	35°04'N 136°55'E	BPI	CIS	Has largest special steel capacity in Jap empire.
90:20-249 Nagoya (Japan)	Kagamigahara Military Airport	SE of Gifu and just S of Kawasaki Aircraft, Kagamigahara Plant (90:20-240).	35°23'N 136°53'E	EPI	AC	Very large air base with large concrete hangars and depot for modification and plane armoring and repair.
90:20-250A Nagoya (Japan)	Nagoya Freight Yards	At head of Naka Canal in W central Nagoya.	35°09'N 136°53'E	BSU	RRT	Largest freight yard in Nagoya area and one of most important urban terminals in Japan. Has 2 round-houses and several warehouses.
90:20-250B Nagoya (Japan)	Nagoya Repair Shops	W Nagoya City, about ½ mile SW of Nagoya Freight Yard (90:20-250A).	35°09'N 136°52'E	BSU	RRT	Most important freight car repair shops in Nagoya area, and probably the second largest in Japan.
90:20-250C Nagoya (Japan)	Nagoya Station	NW Nagoya City about ½ mile N of Nagoya Freight Yards (90:20-250A).	35°10'N 136°53'E	BSU	RRT	Nagoya's main passenger station. Multi-storied station building and network of elevated tracks.
90:20-251 Nagoya (Japan)	Nagoya Harbor	At mouth of Hori River.	35°04'N 136°53'E	BSU	S	Cancelled. See Target 90:20-3538.
90:20-253 Nagoya (Japan)	Nissan Chemical Plant	N shore of Nagoya Harbor, at E side of mouth of Naka Canal.	35°05'N 136°53'E	BPI EPI	C A	Had pre-war annual production of 25,000 tons of sulphuric acid. Also produces nitric acid and other war chemicals and has been partly converted to manufacture of chemicals for explosives.
90:20-254 Nagoya (Japan)	Mitsubishi Electric Mfg. Co.	NE Nagoya City, less than ¼ mile W of Mitsubishi Aircraft Engine Works (90:20-193).	35°11'N 136°57'E	EPI BEI	LM MMT	One of leading producers of light electrical equipment, including aircraft electrical components. Now also important machine tool producer principally turret lathes and horizontal grinders.
90:20-255 Nagoya (Japan)	Yahagi Electro Chemical Plant	On reclaimed land in NE corner of Nagoya Harbor.	35°04'N 136°54'E	BPI	C	Major producer of ammonium sulphate, sulphuric and nitric acids.
90:20-456 Nagoya (Japan)	Toho Gas Works Synthetic Oil Plant	In SW Nagoya, about 3 miles S of Nagoya Castle.	35°08'N 136°55'E	EPI BPI	P CIS	Important producer of synthetic oil, gasoline, gas, coke and tar. Several large expanding gas holders.

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JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX—JAPANESE WAR
NUMERICAL TARGET INDEX

SHEET **ATI**
 DATE **20 June 1945**

OBJECTIVE AREA 90:20—NAGOYA (JAPAN)—(Continued)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
90:20-461 Nagoya (Japan)	Okuma Iron Works, Ozone Plant	In NE Nagoya, about 2 miles E of Nagoya Castle and just W of RR line.	35°11'N 136°56'E	BEI	MMT	Machinery and machine tool producer.
90:20-467 Nagoya (Japan)	Showa Soda Plant	E side Nagoya Harbor waterfront. On E side of re- claimed land island.	35°04'N 136°54'E	BPI	C	Important chlorine and caustic soda producer. Also produces ammonium chloride and probably hydrochloric acid.
90:20-1129 Nagoya (Japan)	Okamoto Aircraft Works, Kasadera Plant	S Nagoya 2¾ miles E of mouth of Yamasaki River.	35°06'N 136°57'E	EPI	AC	One of several plants of this company manufactur- ing aircraft parts including landing gear and possibly minor airframe sections.
90:20-1130 Nagoya (Japan)	Suzuka Naval Air Base	S of Yokkaichi near mouth of Suzuka River.	34°52'N 136°35'E	EPI	AC	Large base engaged in aircraft maintenance, repair and modification. May also be dispersal site for Mitsubishi Aircraft Co. assembling fighters.
90:20-1133 Nagoya (Japan)	Inasawa Shunting Yards	1½ miles E of Inasawa.	35°15'N 136°49'E	BSU	RRT	Sixth largest marshalling yard in Japan, principal one Nagoya area. Round house and shops.
90:20-1138 Nagoya (Japan)	Nippon Explosives Works	About 1 mile W of Taketoyo	34°51'N 136°54'E	EPI MS	A M	Major producer of propellants.
90:20-1139 Nagoya (Japan)	Toyoda Automobile Works (Koromo Plant)	2 miles S of Koromo.	35°03'N 137°10'E	EPI	A	Major private producer of military trucks; one of two largest in Japan.
90:20-1140 Nagoya (Japan)	Toyoda Automobile Works (Kariya Plant)	NE edge of Kariya.	34°59'N 137°00'E	EPI	A	Major private producer of military truck parts.
90:20-1141 Nagoya (Japan)	Toyowa Heavy Industry Company (Shinkawa Plant)	NW fringe of Na- goya about 2¾ miles W NW of Nagoya Castle.	35°12'N 136°51'E	EPI BEI	A AC MMT	Former loom plant reported converted to manu- facture of aircraft parts, munitions and precision machinery. Large plant.
90:20-1143 Nagoya (Japan)	Iwakura Transformer Station	1 mile S of Iwa- kura, to W of Electric RR.	35°16'N 136°52'E	BSU	EP	With Inuyama Transformer Station (90:20-1638) controls Nagoya's access to the 4 high-voltage transmission lines linking Osaka and hydro plants to NE.
90:20-1144 Nagoya (Japan)	Seto Hydro-Electric Station	Just W of Hida River about 5 miles N of Shimohara.	35°44'N 137°13'E	BSU	EP	Capacity 48,000 kw. Secondary plant able to supply either Tokyo or Osaka-Nagoya network.
90:20-1146 Nagoya (Japan)	Okuma Iron Works, Hagino Plant	N Nagoya 1½ miles NE of Nagoya Castle.	35°12'N 136°55'E	BEI	MMT	Major producer of machine tools used in manu- facture of aero-engines and ordnance.
90:20-1147 Nagoya (Japan)	Okuma Iron Works, Nunoike Plant	N central Nagoya 1 mile E SE of City Hall Tower in Na- goya Castle grounds.	35°10'N 136°56'E	BEI	MMT	Probably produces lathes exclusively.
90:20-1153 Nagoya (Japan)	Japan Porcelain Co.	NW Nagoya 1½ miles W of City Hall Tower in Na- goya Castle grounds.	35°11'N 136°53'E	BPI EPI	C A	Best equipped in Japan. Major producer of fire bricks, industrial ceramics, grinding stones. Re- ported partly converted to production of shells.
90:20-1171 Nagoya (Japan)	Nippon Insulator Co.	S Central Nagoya 1¼ miles S of Tsurumi Park	35°08'N 136°55'E	EPI	LM	Leading Japanese producer of industrial ceramics. Also produces sparkplugs, insulators for electric power stations and transmission lines.

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SHEETATI
 DATE.20 June 1945

JOINT TARGET GROUP, WASHINGTON, D. C.
AIR TARGET INDEX—JAPANESE WAR
 NUMERICAL TARGET INDEX

OBJECTIVE AREA 90:20—NAGOYA (JAPAN)—(Continued)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
90:20-1598 Nagoya (Japan)	Nagoya Steam Power Plant No. 2	NW corner Nagoya Harbor, ship canals on the N and E sides.	35°05'N 136°52'E	BSU	EP	Largest steam plant Nagoya city region, 3d largest Central Honshu network. 159,000 kw.
90:20-1614 Nagoya (Japan)	Kaneyama Hydro Plant	Kiso River.	35°28'N 137°06'E	BSU	EP	Estimated 37,000 kw capacity. Secondary plant in Osaka-Nagoya network.
90:20-1635 Nagoya (Japan)	Nakajima Aircraft, Handa Plant	14 miles SE of Nagoya Harbor between Handa town and Kamezaki airfield.	34°53'N 136°57'E	EPI	AC	2nd largest Nakajima plant assembling Navy aircraft.
90:20-1638 Nagoya (Japan)	Inuyama Transformer Station	1½ miles SE of Inuyama.	35°21'N 136°58'E	BSU	EP	One of 2 Stations controlling Nagoya's access to the 4 transmission lines linking Osaka to the NE power system.
90:20-1684 Nagoya (Japan)	Utsube River Oil Refinery	On Utsube River S of Yokkaichi.	34°56'N 136°38'E	EPI MS	P P	New naval oil refinery, capable of producing best aviation gasoline, with very large refining and storage capacity. Also synthetic plant.
90:20-1685 Nagoya (Japan)	Mitaki River Oil Refinery, Yokkaichi	On Mitaki River, N Yokkaichi	34°58'N 136°39'E	EPI MS	P P	Believed to be vegetable oil plant probably producing lubricants from castor oil. Estimated storage capacity 243,000 barrels.
90:20-1691 Nagoya (Japan)	Takaki Factory, Nagoya Arsenal	3 miles NNE of Kachikawa. 2 miles NE of Komaki Airfield.	35°16'N 136°58'E	EPI	A	Production of ammunition and ordnance components.
90:20-1729 Nagoya (Japan)	Aichi Aircraft Works, Eitoku Plant	SW edge of Nagoya at mouth of Shonai River.	35°05'N 136°51'E	EPI	AC	Largest Aichi Plant. Probably manufactures major components and assembles all Aichi aircraft. Maker of Navy combat planes and major developer of new types.
90:20-1730 Nagoya (Japan)	Aichi Aircraft Works, Bomimura Plant	About 2½ miles NNW of Koromo. Along N border of Nagoya Airfield.	35°07'N 137°08'E	EPI	AC	Experimental, repair and assembly. Also possibly post assembly and flight testing of Aichi aircraft assembled elsewhere.
90:20-1735 Nagoya (Japan)	Toyowa Heavy Industry Co. Nishi Plant	In NW Nagoya. About 1 mile WSW of Nagoya Castle, on E side of main RR line.	35°10'N 136°53'E	EPI BEI	AC A MMT	Reported producer of aircraft parts, precision machinery and munitions. Main plant of company. Existence doubtful.
90:20-1736 Nagoya (Japan)	Okamoto Aircraft Works, Tarui Plant.	About 4 miles W of center of Ogaki. About ½ mile SE of Tarui.	35°22'N 136°33'E	EPI	AC	Reported to manufacture parts for aircraft and aero engines.
90:20-1737 Nagoya (Japan)	Yokkaichi Harbor	S waterfront at Yokkaichi, which is SW of Nagoya on coast.	34°58'N 136°38'E	BSU	S	Cancelled. See Target 90:20-3595.
90:20-1738 Nagoya (Japan)	Toho Heavy Industry	In S Yokkaichi.	34°58'N 136°39'E	BPI	CIS	Fairly large special steel plant.
90:20-1753 Nagoya (Japan)	Kobe Steel Works, Nagoya Plant	In N Nagoya, N of Nagoya Castle.	35°12'N 136°55'E	EPI	AC	Produces aircraft fuselage parts and possibly also engine components.

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AIR TARGET INDEX—JAPANESE WAR
 NUMERICAL TARGET INDEX

SHEET **ATI**
 DATE **20 June 1945**

OBJECTIVE AREA 90:20—NAGOYA (JAPAN)—(Continued)

Target Number and Objective Area	Name	Location	Coordinates (approx.)	General Category	Particular Category	Comment
90:20-1776 Nagoya (Japan)	Ishihara Smelter and Refinery	On waterfront to S of Yokkaichi.	34°56'N 136°39'E	BPI	NFM	Copper or nickel refinery.
90:20-1779 Nagoya (Japan)	Yamamoto Heavy Industry	In Kuwana.	35°04'N 136°42'E	BPI	CIS	Small producer of special steels.
90:20-1797 Nagoya (Japan)	Okuma Iron Works, Kami Iida Cho Plant	In NE Nagoya, about 2 miles NE of Nagoya Castle.	35°12'N 136°56'E	BEI	MMT	Manufactures grinding wheels.
90:20-1798 Nagoya (Japan)	Osaka Machinery Works	In S Nagoya. On N bank of eastward branch of Hori River about 2 miles above mouth.	35°08'N 136°55'E	BEI EPI	MMT AC A	Producer of machine tools and munitions. Also reported to manufacture aircraft parts.
90:20-1799 Nagoya (Japan)	Hokoku Machinery Co., Kasadera Plant	In SE Nagoya, on S bank of Yamasaki River about 1 mile from mouth.	35°05'N 136°55'E	BEI	MMT	Major producer of aircraft machine tools.
90:20-1800 Nagoya (Japan)	Daido Machinery Co., Showa Plant	On N side of reclaimed land island on E side of Nagoya Harbor.	35°05'N 136°54'E	BEI EPI	MMT AC	Producer of machine tools and possibly parts for aircraft.
90:20-1802 Nagoya (Japan)	Hitachi Works	About 1½ miles SW of Kuwana, E of main line RR.	35°03'N 136°41'E	BEI BPI	MMT CIS	Maker of heavy machinery.
90:20-1803 Nagoya (Japan)	Meidensha Electric Mfg. Co.	Near Heisaka, probably on E side.	34°52'N 137°02'E	BEI	MMT	Maker of motors, generators, transformers, switchboards.
90:20-1806 Nagoya (Japan)	Okuma Iron Works, Kachikawa Plant	½ mile NE of Kachikawa.	35°14'N 136°57'E	BEI	MMT	Machine tool manufacturer. Probably services tools for Toriimatsu Factory, Nagoya Arsenal (90:20-200).
90:20-1807 Nagoya (Japan)	Okuma Iron Works, Asahi Plant	About 7 miles E of Kachikawa, on RR line.	35°13'N 137°03'E	EPI	A	Ordnance manufacturer.
90:20-1808 Nagoya (Japan)	Meidensha Electric Mfg. Co., Nishi Biwajima Plant	In NW Nagoya, about 3 miles W NW of Nagoya Castle. On main RR line near river crossing.	35°12'N 136°52'E	BEI	MMT	Produces electric motors, generators, transformers and switchboards.
90:20-1809 Nagoya (Japan)	Hokoku Machinery Co., Atsuta Plant	In W Central Nagoya, on E bank of Hori River, about 3½ miles from mouth.	35°08'N 136°54'E	EPI	A	Reported munitions producer.
90:20-1810 Nagoya (Japan)	Ogaki Iron Works	About 2 miles E of Ogaki, near W bank of Ibi River.	35°21'N 136°39'E	BEI EPI	MMT AC	Producer of machine tools and possibly aircraft parts.
90:20-1811 Nagoya (Japan)	Ogaki Iron Works	About 5 miles E of Gifu, on or near RR line.	35°24'N 136°43'E	BEI EPI	MMT AC	Produces machine tools and possibly aircraft parts.

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