

III a (27)

WAKAYAMA

35

TARGET NO. 90.25 NAME Wakayama ZONE 4

CONTENTS

TARGET INFORMATION

J.T.G.

AC/AS

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INTO THE AIR ON
COMBAT MISSIONS

TARGET: WAKAYAMA URBAN INDUSTRIAL AREA
OBJECTIVE AREA: 90.25-OSAKA

T A R G E T I N F O R M A T I O N S H E E T

TARGET 90.25-WAKAYAMA U/A

Latitude: $34^{\circ} 13' N$
Longitude: $135^{\circ} 11' E$
Elevation: 0-525 Feet

*copy P4 (importance)
in place of Summary comment*

1. SUMMARY COMMENT: Wakayama is a city whose major industry was textiles but whose plants have undoubtedly been converted to production of heavy aircraft parts, chemicals, ordnance, high quality steel and dyes. Its destruction would further hamper the evacuation problem of the OSAKA urban area. The city is strategically located on a peninsula commanding the entrance to OSAKA WAN and is connected with OSAKA by steam and electric railway connections.

2. LOCATION AND IDENTIFICATION: The city is located at the base of the peninsula (TAKURA SAKI) guarding the TOMOGA-SHIMA Strait entry to OSAKA WAN. It is 30 miles due south of KOBE and 40 miles southwest of OSAKA on the south bank of the KINO River. Here the coastal plain on the eastern shore of OSAKA WAN broadens to a width of from 6 to 8 miles. A first class highway connects WAKAYAMA with OSAKA and continues to the end of the peninsula. South of TAKURA SAKI and southwest of WAKAYAMA is a second bay, WAKANOURA WAN.

3. TARGET DESCRIPTION: The 1940 population of WAKAYAMA was 195,203 (and the greatest portion is concentrated in a built-up area approximately 3 miles north-south and $1\frac{1}{2}$ miles east-west (1,980,000 square yards). There are approximately 20 integrated incendiary plots south and east of the river, each with an area over 100,000 square yards. The primary incendiary zone lies from 1000 to 4000 feet east of the waterfront. A secondary incendiary zone lies adjacent to the former and west of the small stream which cuts the city north-south.)

Two outstanding landmarks are available. The old castle and grounds are just north of the center of the city. About 2 miles south of the mouth of the river is a hilly prominence, which juts into WAKANOURA WAN and marks the southwestern edge of the built-up area.

The harbor is shallow as a result of silting and is used only by motor-driven fishing boats. Two breakwaters form a blunt point extending west from the south bank of the river and from a prominent island in the river's mouth.

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*this
copy word.*

4. IMPORTANCE: Wakayama is an (ideal) example of a medium-sized outlying city whose facilities were beginning to absorb the shock of the wartime expansion felt by a nearby metropolis (OSAKA). This trend has been hastened by attacks on the parent city with resultant industrial damage, dispersal and worker displacement. In the case of WAKAYAMA, the city has drawn important new plants of the SUMITOMO interests. The city's 30 textile machinery plants, 13 textile dyeing machine plants and 15 small pig iron and casting establishments are all in a category suitable for conversion. In addition to the plants listed specifically below, the city contains miscellaneous small industry: a gun metal plant, 6 knitting machine plants, 3 "cog wheel" plants, a government silk mill, 4 small crude petroleum refineries, an electrolytic chlorine & soda plant and a cement plant.

TARGETS WITHIN THE FIRE ZONE INCLUDE:

- 90.25-XXI 5047 - SUMITOMO METAL INDUSTRIES, LTD., WAKAYAMA PLANT - A new heavy ordnance plant covering 8,000,000 sq. feet. Open hearths, forge and foundry shops and facilities for aircraft parts. Possibly engaged in new jet A/C production. Located on north bank of KINO River.
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- 90.25-XXI 5048 - Unidentified industry covering 1,500,000 sq. feet of island in KINO River mouth.

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TARGETS OUTSIDE THE FIRE ZONE INCLUDE:

Unnumbered - AICHI TOKEI DENKI KK (AICHI Clock & Electrical Co.) - former SUZUKI Blanket Co., reported making A/C parts and magnetos. Located 4 miles S of WAKAYAMA.

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conversion to war industries which is obvious from photos and evidence would be nipped in the bud. And the transportation, housing, and evacuation phases of the relief of hard-hit Osaka would be denied.

5. AIMING POINTS: Aiming points will be designated in the Field Order.

1 July 1945

Target Section, A-2
XXI Bomber Command

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See Wakayama U/A

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INTO THE AIR ON
COMBAT MISSIONS

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TARGET: WAKAYAMA URBAN INDUSTRIAL AREA
OBJECTIVE AREA: 90.25-OSAKA

T A R G E T I N F O R M A T I O N S H E E T

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conversion to war industries which is obvious from photos and evidence would be nipped in the bud. And the transportation, housing, and evacuation phases of the relief of hard-hit Osaka would be denied.

5. AIMING POINTS: Aiming points will be designated in the Field Order.

1 July 1945

Target Section, A-2
XXI Bomber Command

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Open Anal.

file Wakayama

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C. I. U.
TWENTIETH AIR FORCE
APO 234, c/o POSTMASTER
SAN FRANCISCO, CALIFORNIA

27 July 1945

DAMAGE ASSESSMENT REPORT 145

WAKAYAMA-90.25-URBAN

20 Air Force Mission 259, 9-10 July 1945 313th Wing

SUMMARY OF DAMAGE

Built-up area: Sq. Mi. Total - 4.0; Sq. Mi. destroyed - 2.1
Percent destroyed - 52.5

Planned target area: 2.0 sq. mi. Percent destroyed: ¹⁰⁵ ~~100.4~~

Total damage to date: 2.1 sq. mile Percent of built-up area: 52.5

Targets damaged by current strike: 2 numbered, 17 other.

Note: data in this report supersedes that listed in all previous reports.

REPORT

Damage within limits of built-up area:

| <u>Area damage from current strike:</u> | <u>Sq. Mi.</u> | <u>Destroyed Sq. Mi.</u> | <u>Percent</u> |
|---|----------------|--------------------------|----------------|
| Built-up area (Urban) | 3.05 | 1.64 | 53.7 |
| Built-up area (Industrial) | .95 | .46 | 48.4 |
| Built-up area (Total) | 4.0 | 2.1 | 52.5 |

Damage to targets:

Numbered: None in built-up area

Other: 17

Annotation

| <u>Number</u> | <u>Name</u> | <u>Damage (This is first strike)</u> |
|---------------|--------------------------------------|--------------------------------------|
| 2 | Dempobashi Plant of Daiwa Boseki | 100% gutted |
| 3 | Unidentified Industry | 90% gutted |
| 5 | Unidentified Industry | 100% gutted |
| 6 | Kanega Fuchi Boseki | 100% gutted |
| 7 | Ki-No-Kawa Plant of Daiwa Boseki | 100% gutted |
| 8 | Unidentified Textile Mill | 100% gutted |
| 9 | Koyosenko KK - Dyeing Plant | 80% gutted |
| 10 | Sumitomo Kogyo KK - Special Steel | None visible |
| 11 | Unidentified Textile Mill | None visible |
| 12 | Unidentified Industrial Area | 90% destroyed or gutted |
| 13 | Toakogyo Textile Mill | 90% destroyed or gutted |
| 14 | Gunzo Kogyo KK (Spinning) | 100% gutted |
| 15 | Kiyo Shukuta (Weaving) | 100% destroyed or gutted |
| 16 | Waterworks | None visible |
| 17 | Toho Denryoka DD Power Plant | None visible |
| 18 | Unidentified Industry | 90% destroyed |
| 19 | Tebina Plant Daiwa Boseki (Spinning) | None visible |

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D/A Report 145, cont'd.

| | | |
|----|--|-------------------------------------|
| 20 | Koa Boseki (Spinning) | 5% damage |
| 30 | Commercial District Adjacent to castle | 90% destroyed or gutted |
| 29 | Castle Grounds | Castle 100% destroyed |
| 21 | Nakayana Seiko KK, Yura Seiko KK | 5% damage |
| 23 | Unidentified Wool Weaving Mill | None visible |
| 24 | Unidentified Industry | None visible |
| 25 | Unidentified Industry | None visible |
| 22 | Wakayama Senko KK Cotton Mill | None visible |
| 4 | Nankai RR Terminal - building | 40% destroyed |
| 28 | RR Station & Yards - N part of city | None visible |
| 31 | Gas Works | None visible - probable fire damage |
| 27 | Military Hq. & Parade Ground | Buildings 25% destroyed |
| 26 | Hanwa Terminal | None visible |

In addition not less than 26 small unidentified industrial plants of various types were destroyed.

Damage outside built-up area: (within 5 mile radius of center of city)

Area damage from current strike:

Burned out areas on W bank of river S of highway bridge, barracks area and small industrial and urban area adjacent to Target XXI 5047 amount to .09 sq. mi.

Damage to targets:

| <u>Number</u> | <u>Name</u> | <u>Damage</u> |
|---------------|---|--------------------------|
| XXI 5047 | Sumitomo Metal Industry, Ltd. | 10% destroyed or removed |
| XXI 5048 | Unidentified Industry | None visible |
| XXI 5049 | Sumitomo Electric Industry (Chemical Plant) Nakayama Tekkosho - Lathe (East suburbs) | Minor damage |
| | Wakayama Steel Mfg. Co. (East outskirts) | None visible |
| | Textile Mill (adjacent to Target XXI 5047 - annotated as No. 1) | None visible |
| | Unidentified Industry (West of Target XXI 5047) | None visible |

References: AAF Air Objective Folder 90.25
XXI Bom Com Litho-mosaic, Wakayama Area

Photos used: Pre-strike: 3PR5M290-2: 65-69
Post-strike: 3PR5M345-3: 19-23
3PR5M346-3: 4-6

Inclosures: Annotated enlargement showing damage
Annotated enlargement showing location of targets
Annotated print 3PR5M345

Approved. *E.W. Webster, 1st Lt., AC*
Pvt HAMILTON D. DARBY
MAJOR, AC

DISTRIBUTION: "B"

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Incl. 3

2596 C 35 PTU 27 JULY 45

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Approx. Scale-Miles

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XXI 5049

Incl. 2

Location of Targets
Damage Assessment Report 145
Wakayama 90.25 - Urban
C.I.U. 20 AF

587 C 35 PTU 27 JUL 45

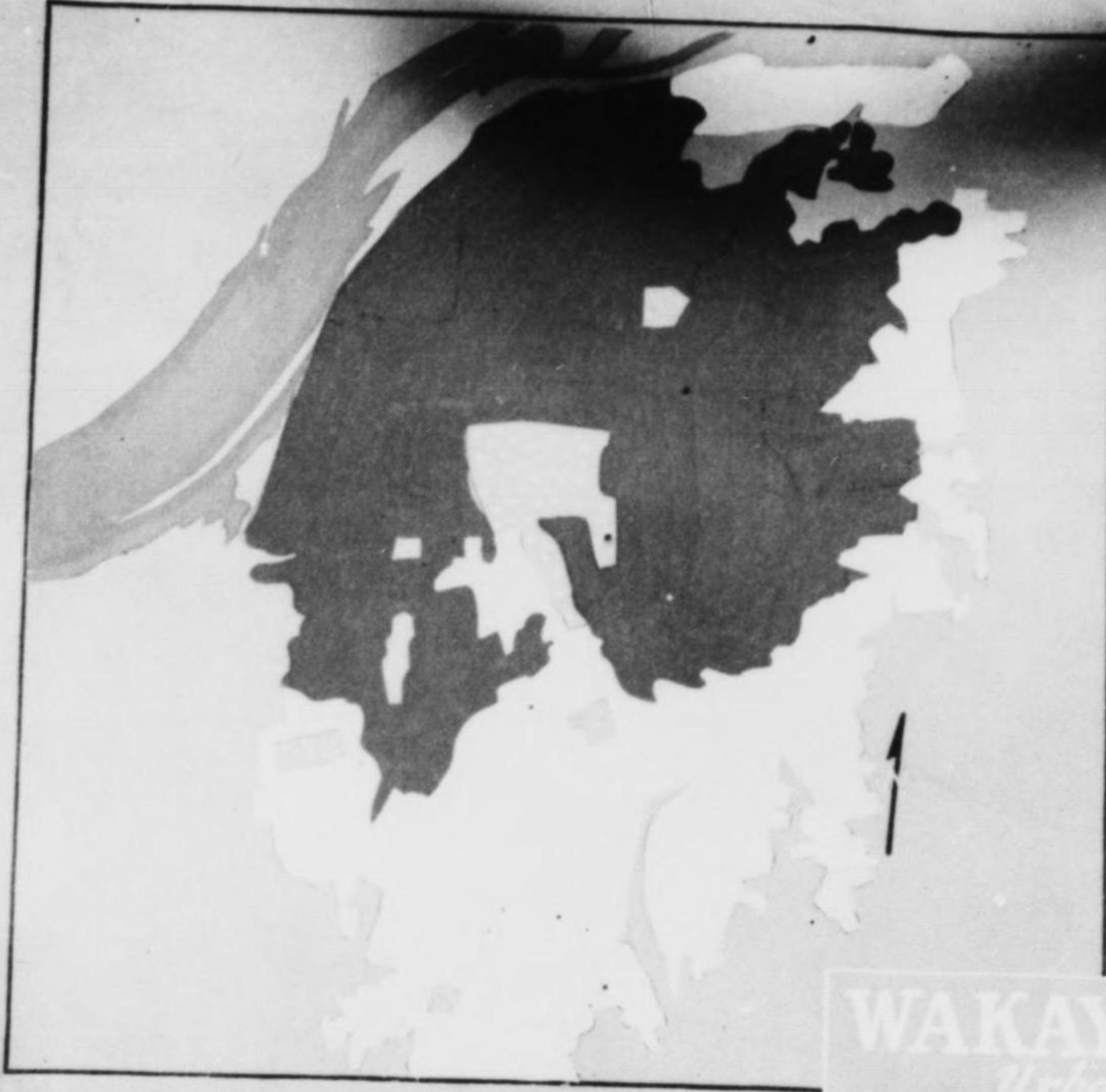
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MISSION SUMMARY

Mission Number 259 17 July 1945

1. Date: 9/10 July 1945
2. Target: Wakayama Urban Area
3. Participating Unit: 313th Bombardment Wing
4. Number A/C Airborne: 109
5. % A/C Bombing Primary: 99.9% (108 A/C)
6. Type of Bombs and Fuzes: AN-M47A2 100# incendiary bombs with instantaneous nose and AN-M17A1, 500# incendiary clusters with nose set to open at 5000 feet.
7. Tons of Bombs Dropped: 800.3
8. Time Over Primary: 100058K - 100258K
9. Altitude of Attack: 10,200 - 11,600 feet
10. Weather Over Target: 1/10
11. Total A/C Lost: 0
12. Resume of Mission: Results were unobserved to excellent. Crews attacking during latter part of strike reported intense fires throughout the city, with smoke columns rising up to 20,000 feet. Large explosions and white flashes were reported. Severe turbulence was encountered over the target area. The target was visible to 97 A/C and not visible to 11 A/C. Flak was medium and AW fire was meager and inaccurate. No S/L's were reported. Ten E/A sighted made no attacks. One B-29 was non-effective. One A/C landed at Iwo Jima. Average bomb load: 14,617 lbs. Average fuel reserve: 951 gallons.

~~SECRET~~



POPULATION
195,000
4 SQ. MI. - BUILT-UP
PTA 2 SQ. MI.

WAKAYAMA
Urban

| MISSION NO | 259 | | | |
|----------------|-----------------|--|--|--|
| DAMAGE | 2.1 SQ. MI. 52% | | | |
| WINGS | 313 | | | |
| DATE | 9/10 JULY | | | |
| DAY/NIGHT | NIGHT | | | |
| BOMB TYPE | INCEND. | | | |
| AV. LOAD | 14,617 | | | |
| A/C AIRBORNE | 109 | | | |
| A/C BOMB. P.T. | 108 | | | |
| TONS ON P.T. | 800.3 | | | |
| ALTITUDE | 10,200-11,600 | | | |
| BOMB. METH. | 97V-11R | | | |
| CLAIMS | 0 | | | |
| LOSSES | 0 | | | |

M 47 INST. 450T

1117-5000' ABOVE 350T

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NOT TO BE TAKEN
INTO THE AIR ON
COMBAT MISSIONS

TARGET: WAKAYAMA URBAN INDUSTRIAL
AREA
OBJECTIVE AREA: 90.25-OSAKA

T A R G E T I N F O R M A T I O N S H E E T

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5. AIMING POINTS: Aiming points will be designated in the Field Order.

1 July 1945

Target Section, A-2
XXI Bomber Command

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MISSION SUMMARY

Mission Number 259 17 July 1945

1. Date: 9/10 July 1945
2. Target: Wakayama Urban Area
3. Participating Unit: 313th Bombardment Wing
4. Number A/C Airborne: 109
5. % A/C Bombing Primary: 99.9% (108 A/C)
6. Type of Bombs and Fuzes: AN-M47A2 100# incendiary bombs with instantaneous nose and AN-M17A1, 500# incendiary clusters with nose set to open at 5000 feet.
7. Tons of Bombs Dropped: 800.3
8. Time Over Primary: 100058K - 100258K
9. Altitude of Attack: 10,200 - 11,600 feet
10. Weather Over Target: 1/10
11. Total A/C Lost: 0
12. Resume of Mission: Results were unobserved to excellent. Crews attacking during latter part of strike reported intense fires throughout the city, with smoke columns rising up to 20,000 feet. Large explosions and white flashes were reported. Severe turbulence was encountered over the target area. The target was visible to 97 A/C and not visible to 11 A/C. Flak was medium and AW fire was meager and inaccurate. No S/L's were reported. Ten E/A sighted made no attacks. One B-29 was non-effective. One A/C landed at Iwo Jima. Average bomb load: 14,617 lbs. Average fuel reserve: 951 gallons.

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**A-2 SECTION
TWENTIETH AIR FORCE
AUGUST 1945**


WAKAYAMA AREA

WAKAYAMA AREA
TARGET NO 9025-XXI 5047 UNIDENTIFIED INDUSTRY (34°13'N-135°09'E) ELEV APPROX 20 FEET
ALL DISTANCES ARE IN NAUTICAL MILES


TARGET CHART NO. 79
RESTRICTED

SCALE - 1:250,000

SCALE - 1:250,000




CHANGE = 2' INCREASE
M V 5°47'W (1945)



A-2 SECTION
TWENTIETH AIR FORCE
JULY 1945

NAGOYA - OSAKA AREA


MAP NO. 3 (SECOND EDITION)
RESTRICTED
SCALE 1:500,000



OSAKA AREA

MARCH 1945

CHART NO. 9
RESTRICTED





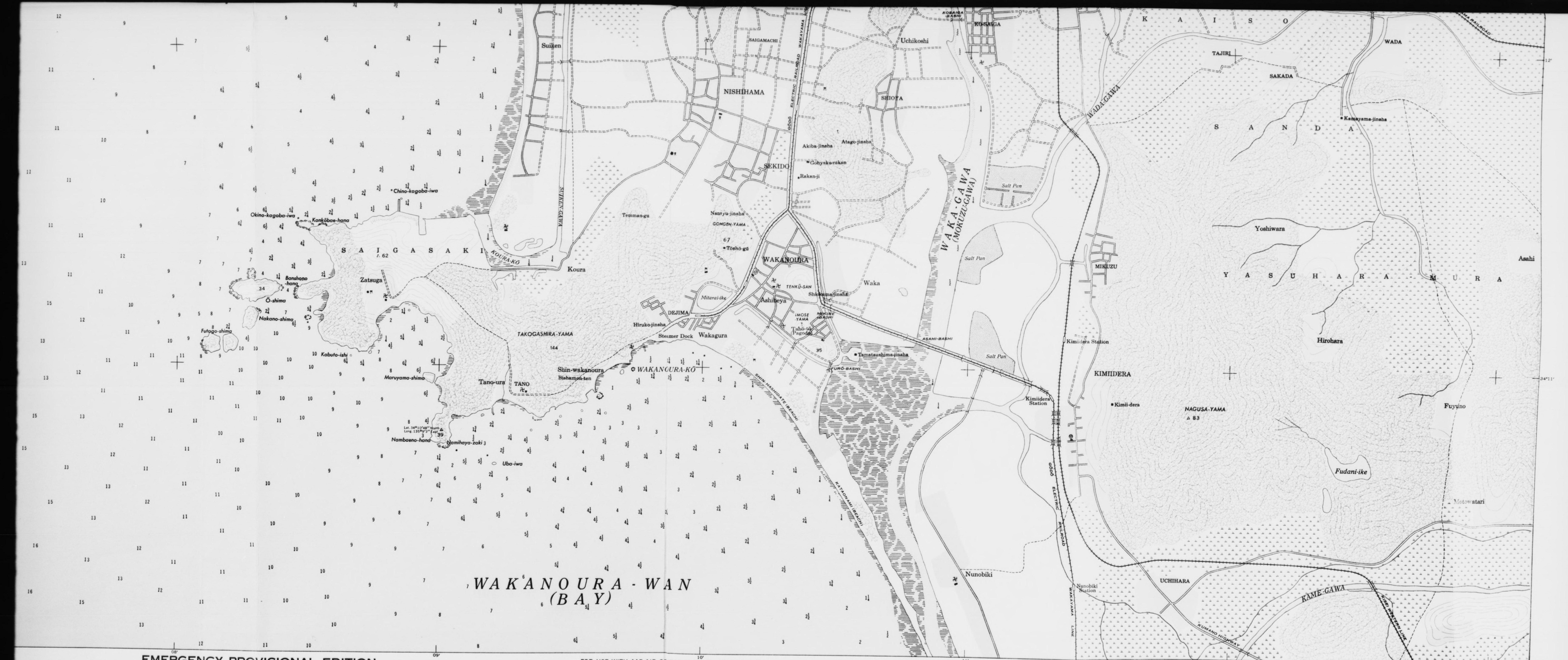
EMERGENCY PROVISIONAL EDITION



KII-SUIDŌ (CHANNEL)







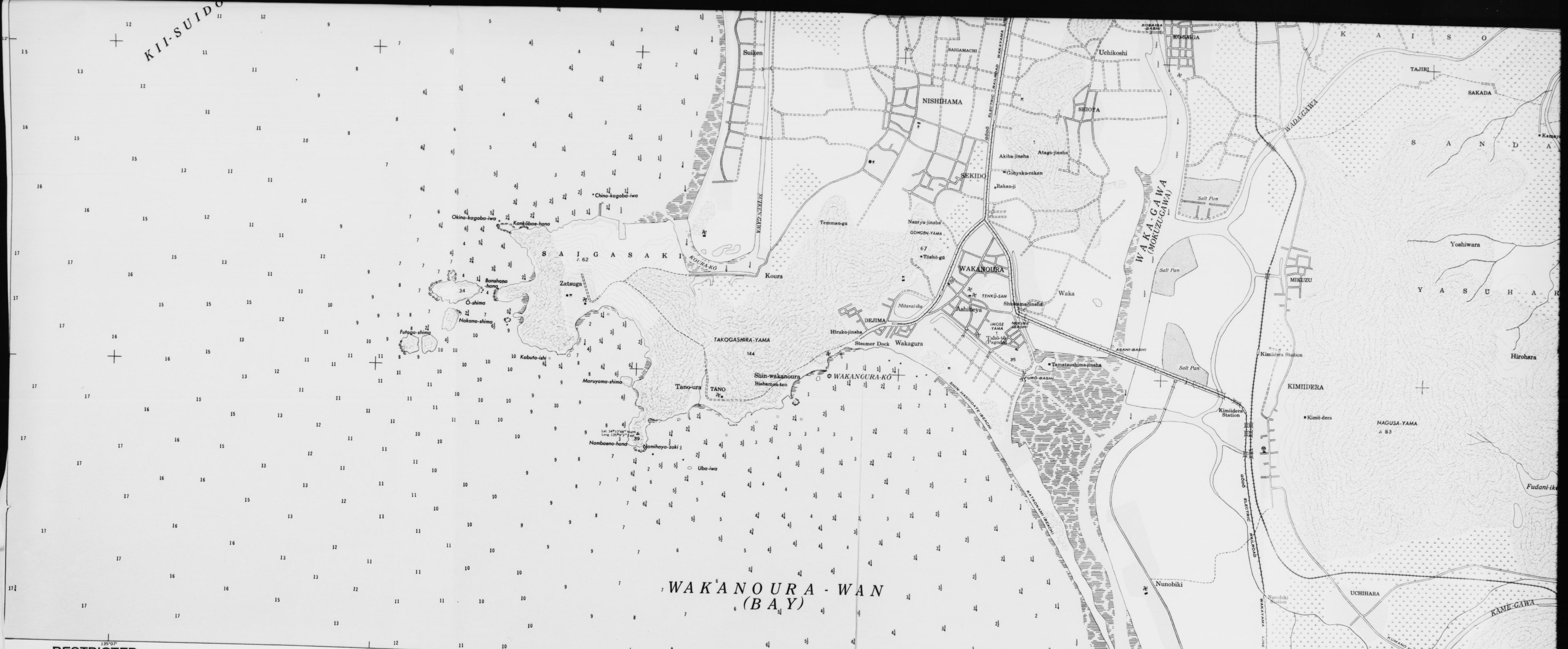
08' EMERGENCY PROVISIONAL EDITION

10'
FOR USE WITH AAF AIR OBJECTIVE FOLDER OSAKA 90.2

NOTE: Officers using this chart will mark hereon corrections and additions which come to their attention and mail direct to "HEADQUARTERS, AERONAUTICAL CHART SERVICE, ARMY AIR FORCES, WASHINGTON, D.C."

135°13'
U.S. ARMY MAP SERVICE, WASHINGTON, D. C. 340704
JUNE 1945

KII-SUIDO



FOR USE WITH AAF AIR OBJECTIVE FOLDER OSAKA 90.25

NOTE: Officers using this chart will mark herein corrections and additions
which come to their attention and mail direct to "HEADQUARTERS,
AERONAUTICAL CHART SERVICE, ARMY AIR FORCES, WASHINGTON, D.C."

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C. I. U.
TWENTIETH AIR FORCE
APO 234, c/o POSTMASTER
SAN FRANCISCO, CALIFORNIA

27 July 1945

DAMAGE ASSESSMENT REPORT 145

NAKAYAMA-90.25-URBAN

20 Air Force Mission 259, 9-10 July 1945 313th Wing

SUMMARY OF DAMAGE

Built-up area: Sq. Mi. Total - 4.0; Sq. Mi. destroyed - 2.1
Percent destroyed - 52.5

Planned target area: 2.0 sq. mi. Percent destroyed: 100.4

Total damage to date: 2.1 sq. mile Percent of built-up area: 52.5

Targets damaged by current strike: 2 numbered, 17 other.

Note: data in this report supersedes that listed in all previous reports.

REPORT

Damage within limits of built-up area:

| <u>Area damage from current strike:</u> | <u>Sq. Mi.</u> | <u>Destroyed Sq. Mi.</u> | <u>Percent</u> |
|---|----------------|--------------------------|----------------|
| Built-up area (Urban) | 3.05 | 1.64 | 53.7 |
| Built-up area (Industrial) | .95 | .46 | 48.4 |
| Built-up area (Total) | 4.0 | 2.1 | 52.5 |

Damage to targets:

Numbered: None in built-up area

Other: 17

| <u>Annotation Number</u> | <u>Name</u> | <u>Damage (This is first strike)</u> |
|--------------------------|--------------------------------------|--------------------------------------|
| 2 | Dempobashi Plant of Daiwa Boseki | 100% gutted |
| 3 | Unidentified Industry | 90% gutted |
| 5 | Unidentified Industry | 100% gutted |
| 6 | Kanega Fuchi Boseki | 100% gutted |
| 7 | Ki-No-Kawa Plant of Daiwa Boseki | 100% gutted |
| 8 | Unidentified Textile Mill | 100% gutted |
| 9 | Koyosenko KK - Dyeing Plant | 80% gutted |
| 10 | Sumitomo Kogyo KK - Special Steel | None visible |
| 11 | Unidentified Textile Mill | None visible |
| 12 | Unidentified Industrial Area | 90% destroyed or gutted |
| 13 | Toakogyo Textile Mill | 90% destroyed or gutted |
| 14 | Gunzo Kogyo KK (Spinning) | 100% gutted |
| 15 | Kiyo Shukuta (Weaving) | 100% destroyed or gutted |
| 16 | Waterworks | None visible |
| 17 | Toho Denryoka DD Power Plant | None visible |
| 18 | Unidentified Industry | 90% destroyed |
| 19 | Tebina Plant Daiwa Boseki (Spinning) | None visible |

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D/A Report 145, cont'd.

| | | |
|----|--|-------------------------------------|
| 20 | Koa Boseki (Spinning) | 5% damage |
| 30 | Commercial District Adjacent to castle | 90% destroyed or gutted |
| 29 | Castle Grounds | Castle 100% destroyed |
| 21 | Nakayana Seiko KK, Yura Seiko KK | 5% damage |
| 23 | Unidentified Wool Weaving Mill | None visible |
| 24 | Unidentified Industry | None visible |
| 25 | Unidentified Industry | None visible |
| 22 | Wakayama Senko KK Cotton Mill | None visible |
| 4 | Nankai RR Terminal - building | 40% destroyed |
| 28 | RR Station & Yards - N part of city | None visible |
| 31 | Gas Works | None visible - probable fire damage |
| 27 | Military Hq. & Parade Ground | Buildings 25% destroyed |
| 26 | Hanwa Terminal | None visible |

In addition not less than 26 small unidentified industrial plants of various types were destroyed.

Damage outside built-up area: (within 5 mile radius of center of city)

Area damage from current strike:

Burned out areas on W bank of river S of highway bridge, barracks area and small industrial and urban area adjacent to Target XXI 5047 amount to .09 sq. mi.

Damage to targets:

| <u>Number</u> | <u>Name</u> | <u>Damage</u> |
|---------------|--|--|
| XXI 5047 | Sumitomo Metal Industry, Ltd. | 10% destroyed or removed |
| XXI 5048 | Unidentified Industry | None visible |
| XXI 5049 | Sumitomo Electric Industry (Chemical Plant) Wakayama Tekkosho - Lathes (East suburbs) Wakayama Steel Mfg. Co. (East outskirts) Textile Mill (adjacent to Target XXI 5047 - annotated as No. 1) | Minor damage None visible None visible |
| | Unidentified Industry (West of Target XXI 5047) | None visible |

References: AAF Air Objective Folder 90.25
XXI Bom Com Litho-mosaic, Wakayama Area

Photos used: Pre-strike: 3PR5M290-2: 65-69
Post-strike: 3PR5M345-3: 19-23
3PR5M346-3: 4-6

Inclosures: Annotated enlargement showing damage
Annotated enlargement showing location of targets
Annotated print 3PR5M345

Approved.....
S.W. Webster, 1st Lt., H.C.
Per HAMILTON D. DARBY
MAJOR, AC

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Incl. 2
Location of Targets
Damage Assessment Report 145
Wakayama 90.25 - Urban
G.I.U. 20 AF

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Indl. 3

35 PTU

Approx. Scale - Miles