

III a (20)

YOKOHAMA

46

1 of 2

TARGET NO. 90.17 NAME Yokohama ZONE 1

CONTENTS

TARGET INFORMATION

J.T.G. Location Sheet (target)

AC/AS _____

OTHER REPORTS A-2 Target Info Sheets

MOSAIC

<u>MISSION NUMBER</u>	<u>FIELD ORDER</u>	<u>MISSION RESUME</u>	<u>MISSION SUMMARY</u>	<u>REPORTS</u>	<u>BOMB PLOT</u>	<u>TYPE BOMB</u>	<u>BOMB TONNAGE</u>	<u>PRE-STRIKE</u>	<u>STRIKE</u>	<u>POST-STRIKE</u>
<u>186</u>	_____	_____	<input checked="" type="checkbox"/>	<u>DA 80</u>	_____	<u>E28</u>	<u>E 4.2</u>	_____	<input checked="" type="checkbox"/>	_____
_____	_____	_____	_____	_____	_____	<u>E36</u>	<u>45.0</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	<u>E46</u>	<u>1233.2</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	<u>M17</u>	<u>20.5</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	<u>M47</u>	<u>766.4</u>	_____	_____	_____
<u>150</u>	_____	_____	<input checked="" type="checkbox"/>	<u>DA 47</u>	_____	_____	_____	_____	_____	_____
<u>68</u>	_____	_____	_____	<u>DA 47</u>	_____	<u>E46</u>	<u>764.6</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	<u>M47</u>	<u>307.8</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	<u>M64</u>	<u>18.0</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	<u>T4E4</u>	<u>19.6</u>	_____	_____	_____
<u>157</u>	_____	_____	<input checked="" type="checkbox"/>	<u>DA 47</u>	_____	<u>M65</u>	<u>21.0</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	<u>M66</u>	<u>56.0</u>	_____	_____	_____
<u>69</u>	_____	_____	_____	<u>DA 47</u>	_____	<u>E46</u>	<u>434.4</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	<u>M17</u>	<u>320.0</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	<u>M64</u>	<u>14.5</u>	_____	_____	_____

S E C R E T

MISSION SUMMARY

Mission Number 186

1. Date: 29 May 1945
2. Target: Yokohama Area
3. Participating Units: 58th, 73rd, 313th, and 314th Wings
4. Number A/C Airborne: 510
5. % A/C Bombing Primary: 90.8% (454 primary and 21 opportunity)
6. Time Over Primary: 291014K - 291129K
7. Altitude of Attack: 17,500 - 21,000
8. Weather Over Target: 9/10 high cloud
9. Total A/C Lost: 7
10. Resume of mission: Available photos indicated excellent bombing results. A total of 6.9 square miles of the city were burned and destroyed. A total of 2569.6 tons of bombs were dropped on the primary target and 105.6 tons on targets of opportunity. Thirty-five A/C were non-effective. Fighter opposition consisted of 55 A/C sighted making 110 attacks. Claims were 6-5-10. Flak was heavy, meager to intense, accurate to inaccurate and shot down 3 B-29's. The B-29's were escorted by 101 P-51's. Two P-51's were lost over the target. One B-29 was intentionally rammed. Two A/C ditched. Thirty-nine A/C landed at Iwo Jima. Average Bomb Load: 12,040 lbs. Average fuel reserve: 811 gallons.

S E C R E T

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XXI BOMBER COMMAND
APO 234, c/o POSTMASTER
SAN FRANCISCO, CALIFORNIA

(Combined PI Sections: 3rd Photo Recon Squadron and 35th Photo Tech Unit)

4 June 1945

DAMAGE ASSESSMENT REPORT 80

YOKOHAMA CITY

Mission No.: 3PR5M 254

Target Area: Tokyo (90.17)

Date Flown: 31 May 1945

SUMMARY

Damage to Yokohama city resulting from XXI Bomber Command Mission 186, 29 May 1945, totals 6.9 square miles, which represents about 34% of the entire city.

Industrial damage includes 20 numbered targets damaged or destroyed.

The area destroyed by this raid is primarily in the zone classified as "commercial" (Ref. A).

Total damage to Yokohama is now 8.9 square miles, which represents 44% of the entire city.

SUMMARY OF STATISTICS OF DAMAGE

1. Summary of damage from current strike:

	<u>Sq. miles</u>	<u>Percent</u>
Area of City	20.2	
Area of City destroyed	6.9	34.0
Area of Incendiary Zone I	.72	
Area of Incendiary Zone I destroyed	.70	97.0
Area of Incendiary Zone II	7.32	
Area of Incendiary Zone II destroyed	4.54	62.0
Target Area 90.17-3607	3.8	
Target Area destroyed	.12	3.2
Target Area 90.17-3608	3.0	
Target Area destroyed	1.4	46.0

2. Summary of Total Damage:

	<u>Sq. Miles</u>	<u>Percent</u>
Area of City	20.2	
Area of City destroyed	8.94	44.0
Area of Incendiary Zone I	.72	
Area of Incendiary Zone I destroyed	.719	99.4
Area of Incendiary Zone II	7.32	
Area of Incendiary Zone II destroyed	4.8	65.2
Target Area 90.17-3607	3.8	
Target Area destroyed	.15	3.3
Target Area 90.17-3608	3.0	
Target Area Destroyed	1.68	56.0

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Damage Assessment Report No. 80, cont'd.

ITEMIZATION OF INDUSTRIAL DAMAGE

TARGET NO.	DAMAGE	TARGET NAME
1 62	95% destroyed	Hodogaya Sub Station
2 63	98% "	Kanagawa Steam Power Plant
3 66	80% gutted	Fukushima Freight Yards
4 67	25% "	Station, Junction, Overpass
5 71	90% destroyed	Uraga Dockyard
6 499	90% "	Nippon Carbon Co., Plant #1
7 522	20% gutted	Nissan Auto Co.
8 1338	5% destroyed	Inflammable Storage Docks
9 1346	80% "	Yokohama Electric Co. Power Plant
10 1399	20% "	Hodogaya Soda (Chemicals)
11 1430	5% "	Nippon Electric Wire & Cable
12 1432	15% minor damage	Yokohama Harbor Passenger Wharves
13 1438	90% destroyed	Kyoitsu Warehouse
14 1440	10% "	Mitsubishi Warehouse
15 1442	100% "	Yokama Warehouse
16 1443	10% "	National Silk Conditioning House
17 1446	85% "	East Asia Development Co. Warehouse
18 1451	4% "	Naniwa Warehouse
19 1493	80% "	Toshin & Shinko Warehouse
20 XXI 3054	4% "	Unidentified industry

References: A. AOF 90.17 15 September 1944
 B. CIU Damage Assessment Report 47

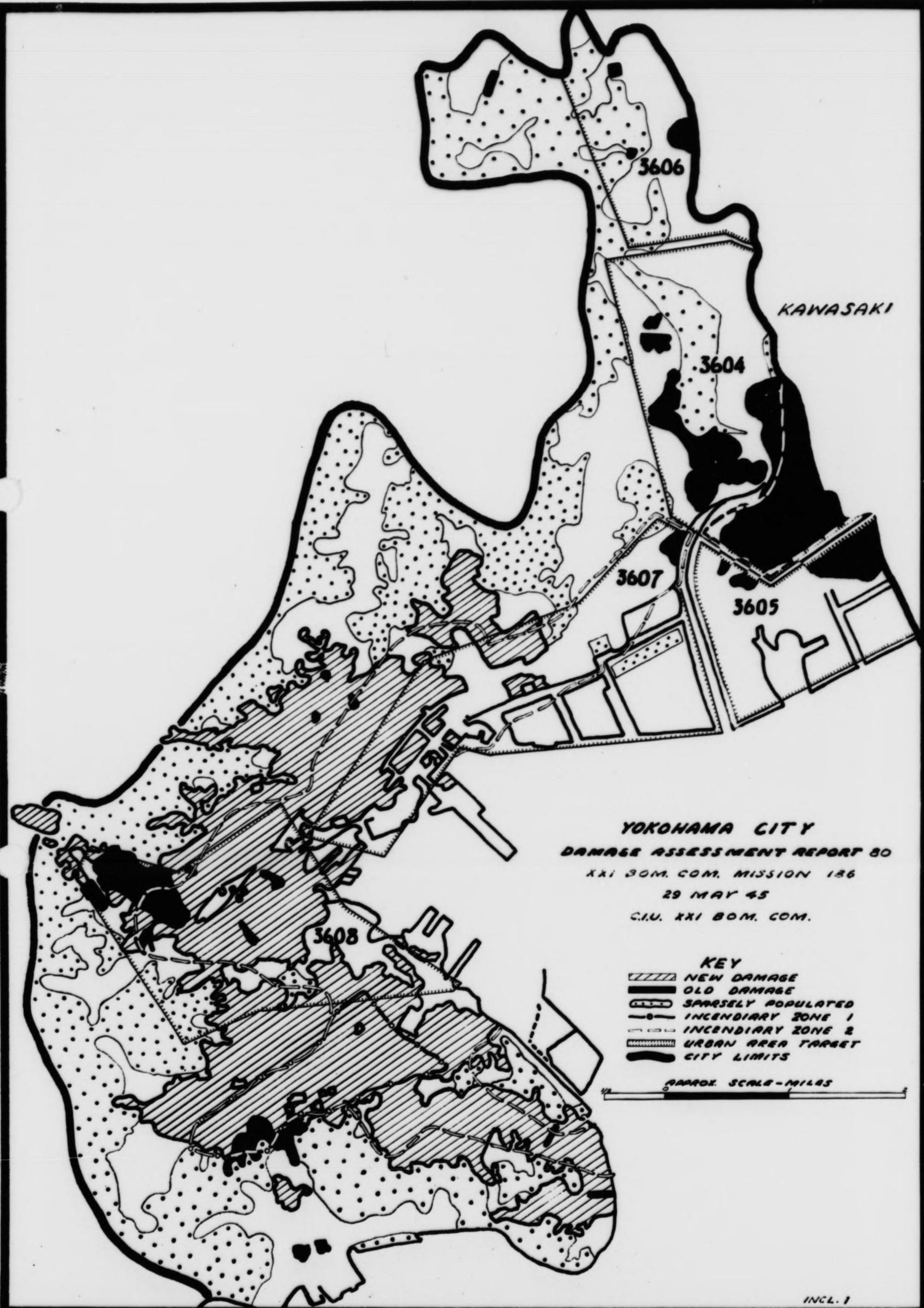
Photography: Pre-strike: 3PR5M157
 Strike: 21 BC M186
 Post-strike: 3PR5M254

Inclosures: 1. City Diagram (arbitrary city limits, incendiary zones and target areas)
 2. Mosaic showing damage
 3. Post-strike print 3PR5M254-IV: 9

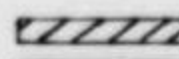


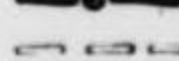
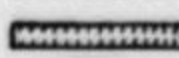


Approved: *[Signature]*
 HAMILTON D. DARBY
 MAJOR, AC

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YOKOHAMA CITY
DAMAGE ASSESSMENT REPORT 80
 XXI BOM. COM. MISSION 186
 29 MAY 45
 C.I.U. XXI BOM. COM.

- KEY**
-  NEW DAMAGE
 -  OLD DAMAGE
 -  SPARSELY POPULATED
 -  INCENDIARY ZONE 1
 -  INCENDIARY ZONE 2
 -  URBAN AREA TARGET
 -  CITY LIMITS

APPROX. SCALE - MILES



YOKOHAMA CITY
DAMAGE ASSESSMENT REPORT 80
XXI BOM COM. MISSION 166
29 MAY 45
CIU XXI BOM. COM

KEY
OLD DAMAGE
NEW DAMAGE
SCALE - MILES (UNAPPROX)



SEMI-CONTROLLED MOSAIC
200 ENGS. FROM 3000 FT. ALT.

INCH. 2

CTU 6 JUN 45 C 1730

60000

3 PR 5 M 254 - N 9

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YOKOHAMA CITY
DAMAGE ASSESSMENT REPORT 80
XXI BOM. COM. MISSION 254
29 MAY 1945/
C.I.U. - XXI BOM. COM.
(67,000')

9

10

NCL 3

(2) 100 5-186- 112 v 5 X5-29-10:30 (12) (35-20115) (KONAMA X4108) R

51



(21BCX5M186- 112 V 6 X5-29-10:30X12"18500" 138-442 X YOKOHAMA X4108 XE51)

67



7724 EASTMAN REGULAR SAFETY

21BC 57186 19V 15 5-29-1051 12-19000 35°27'N-139°38'E YOKAHAMA URBAN AREA A16 RESTRICTED



EASTMAN REGULAR SAFETY

21 BC / 5 M 186 - 324 V 5 / 5-29-0117 Z / 24-15300 / 35-27 N 139-38 E / Yonohama / 0044 / R.E.S.T.



EASTMAN REGULAR SAFETY

0262 EASTMAN REGULAR SAFETY

RESTRICTED
10657183 203 Y-8 - 5-29-0030-12" 19000 35627N 139°37'E YOKOHAMA 8-14



21BC 5M186 216⁵.

5-29-1030

12"18000

35°27'N-139°37'E

YOKOHAMA

0-50

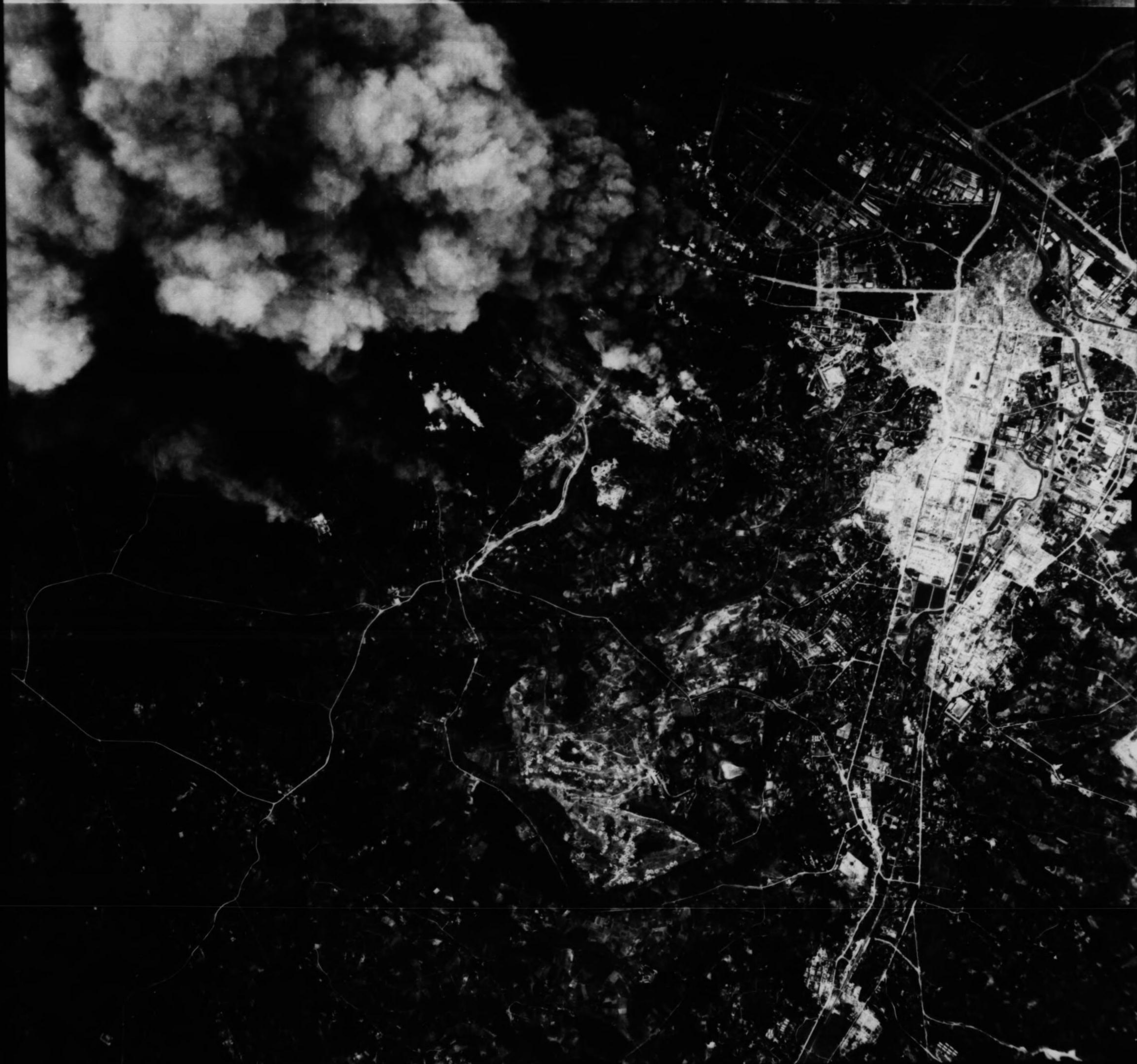
RESTRICTED



U.S. AIR FORCE PHOTOGRAPHIC CENTER
7127
RESTRICTED

21 BC 34166-231V-8 - 5:29:1040-12" - 18,500-35° 27' N - 139° 37' E - YOKOHAMA - M-53

RESTRICTED





8



21 BC/5M186-308 V2 /5-29-0032Z/6-19,100/35-27N-139-35E/YOKOHAMA/0086/REST.



ZIBC/5M186-316 V /5-29-0114Z /24-19,400 /56-37N 139-00E /YOKOHAMA/4715 /255T



21 BC / 5M186-302 V 1 / 5-29-00002 / 12-10/600 / 35-27N 139-38E / YOKOHAMA / AT86 / REST.



71

210C 5M186 33V 6 5-29-1051 12-18900 35°27'N-139°38'E YOKAHAMA URBAN AREA A15 RESTRICTED



2186 5M186 33V 2

5-29-1051 12-18900 35°27'N-139°38'E YOKAHAMA URBAN AREA A15 RESTRICTED



2180 5M186 205V-B 5-29-1104 12:1800 35°27'N-139°37'E YOKOHAMA 0-46 RESTRICTED



7470 EASTMAN REGULAR SAFETY

7470 EASTMAN REGULAR SAFETY

7471 EASTMAN REGULAR SAFETY

21BC-5M186-213V-10-5-29-11:00-12"-18,000-35°27'N-139°37'E-YOKAHAMA-M-19-
(RESTRICTED)



21BC 5M186 IV 7 5-29-1043 12°19'40" 35°27'N, 139°38'E YOKOHAMA URBAN AREA - Z24-RESTRICTED



74

21BC 5M186 12IV3 29MAY 1030K 12-18500 35°22'N 138°44'E YOKOHAMA 4890 REST

30



1004 5M186 222V-9 5-29-1041 12"-18500 35°27'N-139°37'E YOKOHAMA M-K



1004 EASTMAN KODAK SAFETY

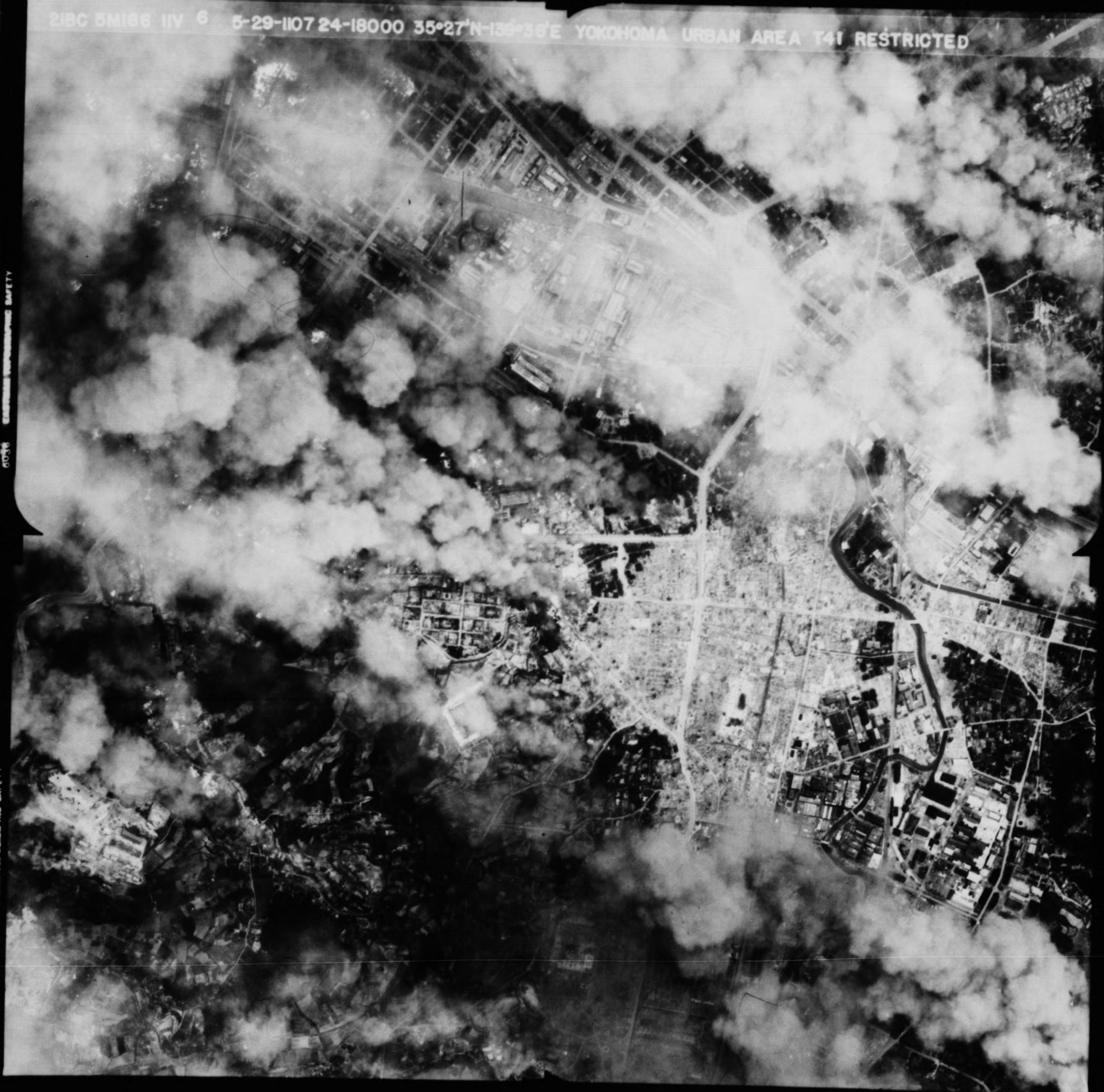
1004 EASTMAN KODAK SAFETY

EASTMAN KODAK SAFETY

21BC 5M186 IIV 6 5-29-1107 24-18000 35°27'N-139°36'E YOKOHOMA URBAN AREA T41 RESTRICTED

6036 EASTMAN TOPOGRAPHIC SAFETY

6035 EASTMAN TOPOGRAPHIC SAFETY



21BC 5M186 12V37 5-29-1109 12"-20000' 35°27'N, 139°38'E YOKOHAMA URBAN AREA- T7-RESTRICTED



21BC 5M186 12V 1 5-29-1109 12" 20000' 35°27'N 139°38'E YOKOHAMA URBAN AREA-T7-RESTRICTED

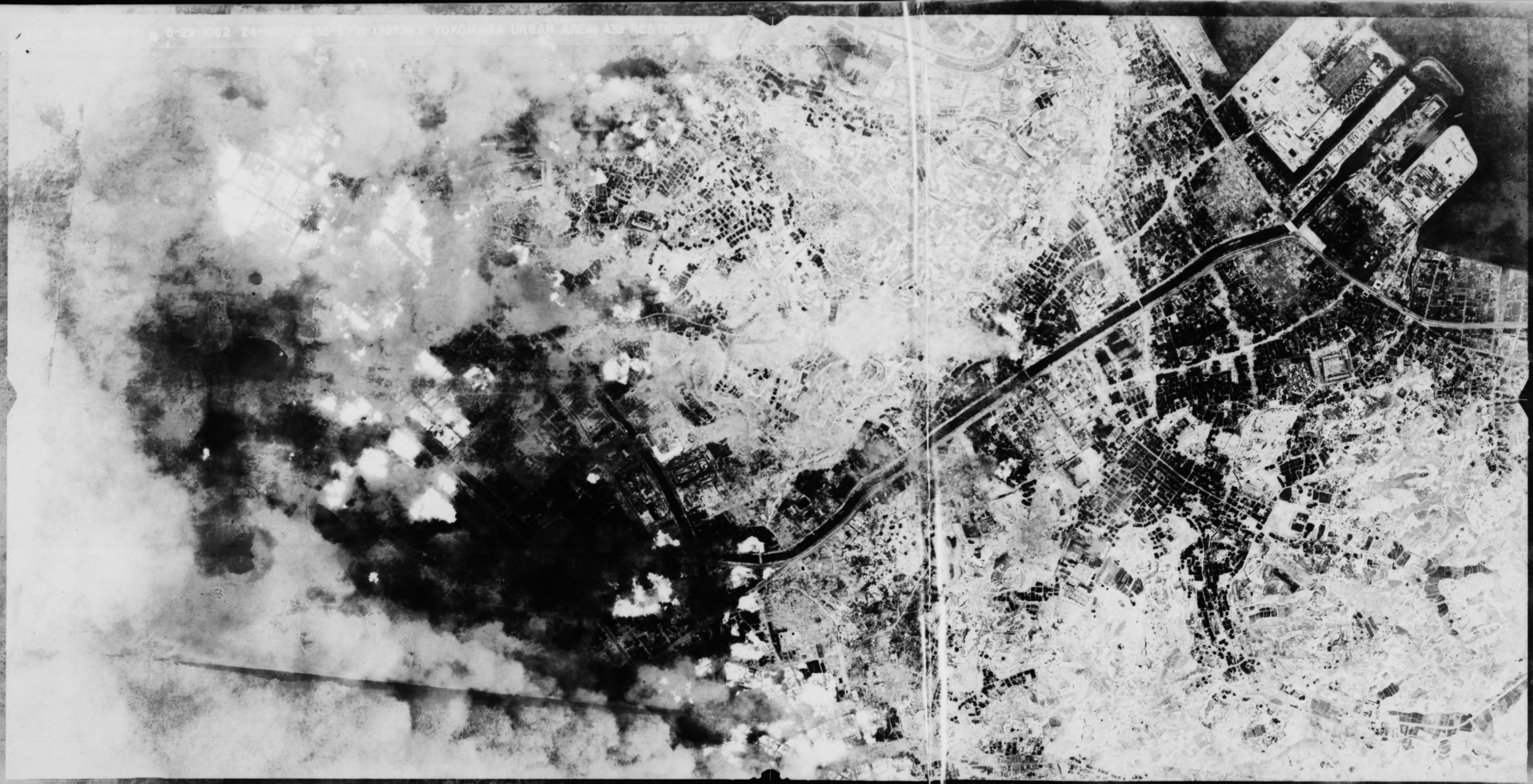
40

An aerial photograph showing a large, bright, irregularly shaped area, possibly a large fire or explosion, surrounded by darker, more detailed urban structures. The bright area is the central focus, with a jagged, dark border. To the right and bottom, there are more defined urban features like buildings and streets. The overall image has a grainy, high-contrast quality typical of older aerial photography.

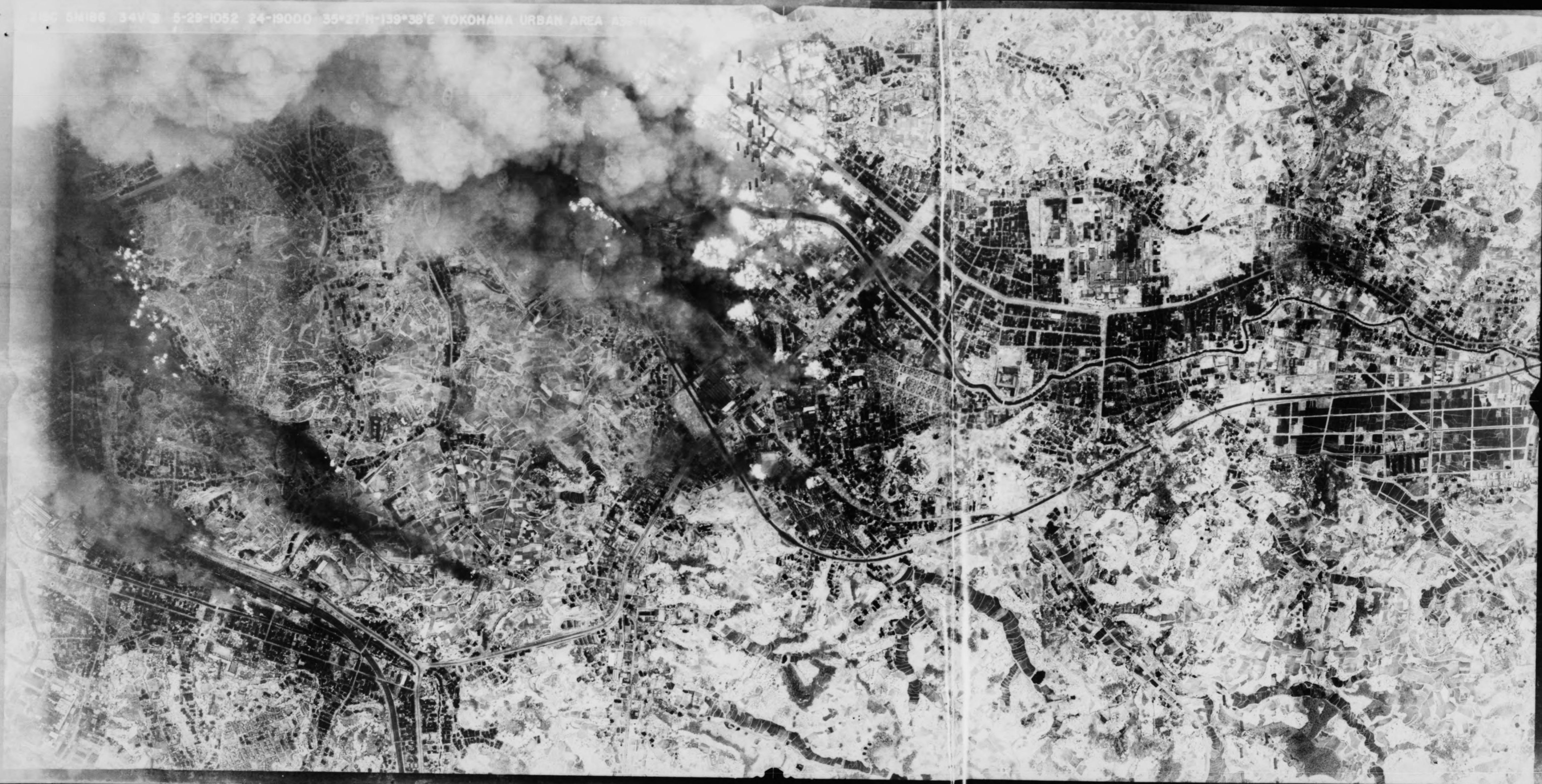
21BC 5M186 12V ⁴³ 5-29-1109 12"-20000' 35°27'N, 139°38'E YOKOHAMA URBAN AREA-T7-RESTRICTED



8-29-1052 24-18001 35 37 N 139 51 E YOKOHAMA URBAN AREA ASB RESTIM 20



405 5M186 34V 3 5-29-1052 24-19000 35°27'N-139°38'E YOKOHAMA URBAN AREA AS-RE



118C 5M186 17V 2 5-29-1051 24-18900 35°27'N-139°38'E YOKOHAMA URBAN AREA AM RESTRICTED





5-29-05 2 1/2 - 1844/35 27 N 153

2180 5M186 32V // 5-29-1109 24-19600 35°27'N, 139°38'E YOKOHAMA URBAN AREA-T3-RESTRICTED

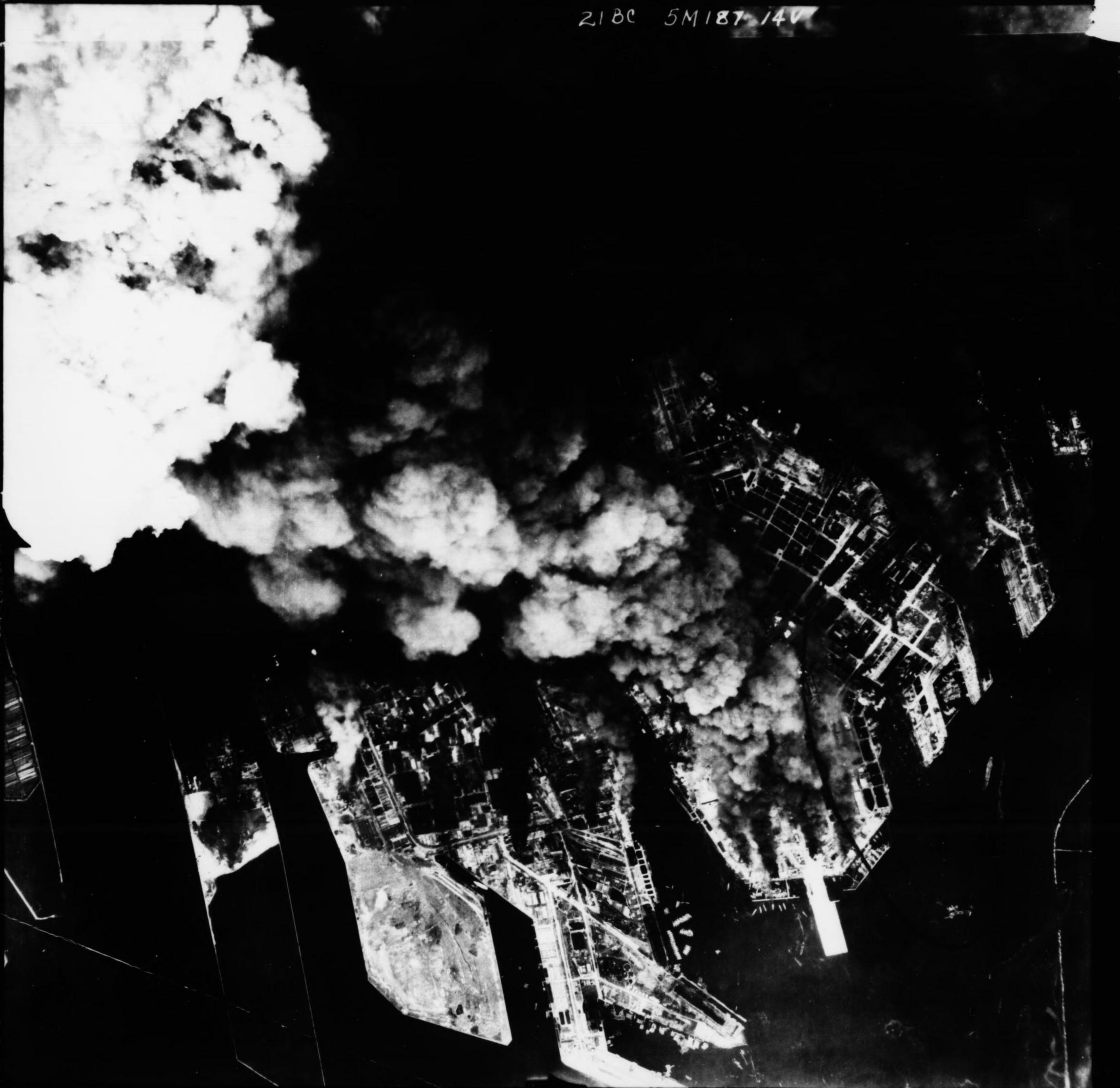


186 212V-7 5-29-1040 24-18150 25-227 1000H-2



EASTMAN PHOTOGRAPHIC COMPANY

2180 5M187-14V



MAN. J. P. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

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APO 234, c/o POSTMASTER
SAN FRANCISCO, CALIFORNIA

Combined PI Sections: 3rd Photo Recon Sqdn and 35th Photo Tech Unit

29 April 1945

DAMAGE ASSESSMENT REPORT NO. 47

Mission No.: 3PR5M 150 A/C Commander: D.U. Woodfield
Date Flown: 16 April 1945 1st Lt., AC

Mission No.: 3PR5M 157 A/C Commander: Ian L. Boggs
Date Flown: 22 April 1945 1st Lt., AC

SUMMARY

This report assesses area damage in Yokohama, Kawasaki and S. Tokyo resulting from XXI Bomber Command Missions 68 and 69, 15 April 1945.

Area damage totals approximately 268,000,000 sq. ft. (9.6 sq. mi. or 6100 acres) of destruction within these cities.

Twenty-five numbered industrial targets show varying degrees of damage.

STATISTICAL SUMMARY

<u>TARGET</u>	<u>SQ.FT.</u>	<u>ACRES</u>	<u>SQ.MI.</u>	<u>PERCENT</u>
Area of Kawasaki Incen- diary Zone No. 1	40,995,000	940	1.47	
Area destroyed	26,775,000	615	.96	65
Area of Yokohama Incen- diary Zone No. 1	20,025,000	460	.72	
Area destroyed	585,000	13	.02	3
Area Target 90.17-3601	402,570,000	9,000	14.4	
Area destroyed	131,500,000	3,000	4.7	33
Area Target 90.17-3604	229,950,000	5,250	8.2	
Area destroyed	127,000,000	2,380	4.5	55
Area Target 90.17-3605	111,690,000	2,560	4.0	
Area destroyed	5,400	.13	.02	.05
Area Target 90.17-3606	117,610,000	2,750	4.3	
Area destroyed	36,000,000	830	1.3	30
Area Target 90.17-3607	107,640,000	2,420	3.8	
Area destroyed	89,000	1.9	.03	.08
Area Target 90.17-3608	84,330,000	1,900	3.0	
Area destroyed	7,962,000	180	.23	9.5

ITEMIZATION OF AREA DAMAGE

<u>Annot. No.</u>	<u>Description of Area</u>	<u>Sq.Ft. Destroyed</u>
1.	Residential - destroyed (2 areas)	562,000
2.	Residential - destroyed	562,000

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D/A Report No. 47, Cont'd.

<u>Annot. No.</u>	<u>Description of Area</u>	<u>Sq.Ft. destroyed</u>
3.	Residential - destroyed (2 areas)	438,000
4.	Residential - destroyed	250,000
5.	Includes residential, commercial and industrial sections (Targets 331, 541, 573, 918, 919, 1332, 1357, 1362). Industrial section severely damaged; residential and commercial sections destroyed.	130,000,000
6.	Light industrial area - destroyed	1,500,000
7.	Light industrial area - destroyed	1,875,000
8.	Residential - destroyed	375,000
9.	Residential - destroyed	187,000
10.	Light industrial area - destroyed	593,000
11.	Light industrial area destroyed	250,000
12.	Industrial area - destroyed	438,000
13.	Residential - destroyed	720,000
14.	Light industrial area - destroyed	218,000
15.	Residential - destroyed	94,000
16.	Residential - destroyed (3 areas)	3,160,000
17.	Residential and light industrial (2 areas destroyed)	4,680,000
18.	Includes residential, commercial and industrial sections (Targets 58, 105, 106, 141, 484, 485, 487, 488, 489, 494, 496, 4011, XXI 3058, XXI 3069, XXI 3070, XXI 3075). Industrial section severely damaged, residential and commercial areas destroyed.	108,000,000
19.	Industrial area - destroyed	812,000
20.	Residential - destroyed	812,000
21.	Residential (3 areas) - destroyed	812,000
22.	Residential (3 areas) - destroyed	1,500,000
23.	Residential - destroyed	562,000
24.	Residential and industrial area (Target 1399 - 80% destroyed). Residential area - destroyed.	5,900,000
25.	Residential - destroyed	3,125,000
26.	Residential - destroyed	1,000,000

ITEMIZATION OF DAMAGE TO INDUSTRIES

YOKOHAMA

1399 - Hodogaya Soda - 80% destroyed. Two large buildings destroyed. 2 large buildings gutted.

XXI 3058 - Unidentified Industry - 70% destroyed. Main and secondary buildings severely damaged.

XXI 3069 - Unidentified Industry - Main building has minor damage - shops and warehouses are gutted or destroyed - 60% of plant affected.

XXI 3075 - Unidentified Industry - 30% destroyed. One sawtooth-roofed building destroyed, 2 warehouse type buildings destroyed, one sawtooth-roofed building severely damaged.

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D/A Report No. 47, Cont'd.

KAWASAKI

- XXI 3070 - Unidentified Industry - 80% of plant destroyed or gutted.
- 58 - Tokyo Special Steel & Chrome Works - 50% destroyed. Five sawtooth-roofed and numerous smaller buildings destroyed, one sawtooth-roofed building gutted.
- 105 - Kawasaki Substation No. 1 - Probably 30% of plant destroyed. Several small buildings - other damage is not readily assessable.
- 106 - Railroad Transformer Station - 80% destroyed, the remaining buildings are probably severely damaged.
- 141 - Yokohama Rubber Co. - at least 40% of plant destroyed. Smoke still obscures center of plant area, fires visible. Numerous small shops at one end of plant area are burned out. Four major buildings at opposite end of plant are destroyed.
- 484 - Showa Wire Cable Co. - 40% destroyed. Several warehouse type buildings destroyed - 2 main buildings show minor damage.
- 485 - Fuji Spinning Mills - 80% gutted or destroyed. Part of plant obscured by smoke.
- 487 - Meiji Sugar Factory - 30% destroyed. Five small buildings destroyed, possible damage to remaining buildings.
- 488 - Factory No. 2 of Tokyo-Shibaura Electric Co. - 10% damaged. Three small buildings destroyed, 4 gutted.
- 489 - Nippon Electric Wire and Cable Co. - 30% of plant gutted.
- 494 - Tokyo Electric Wire and Mfg. Co. - 100% destroyed.
- 496 - Factory No. 1 of Tokyo-Shibaura Electric Co. - 25% of plant destroyed. Seven sawtooth-roofed and 3 warehouse type buildings destroyed.
- 4011 - Electrical Instrument Plant - 70% destroyed or gutted.

SCUTH TOKYO

- 331 - Tokyo Gas & Electric Engineering - One large and two small buildings, amounting to about 5% of plant, destroyed. Plant is well protected by fire breaks.
- 541 - Oriental Otis Elevator - 60% destroyed. Three large buildings slightly damaged, one building gutted, 15 small buildings destroyed.
- 573 - Migata Engineering Works - 10% destroyed. One building severely damaged.
- 918 - Niigata Iron Works - 90% destroyed. Of 210,000 sq. ft. occupied by main buildings, 183,000 sq. ft. are gutted or destroyed - all minor buildings are destroyed.
- 919 - Tokyo Measuring Instrument Works - 80% destroyed. Fourteen warehouse type buildings destroyed.

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D/A Report No. 47, Cont'd.

1332 - Rolling Stock Co. - 30% destroyed. Shop building severely damaged, several smaller buildings destroyed.

1357 - Tokyo Special Machine Mfg. Co. - Thirteen warehouse type buildings, a total of 15% of plant area, destroyed.

362 - Kitashin Electric Engineering Co. - 20% destroyed. Two of the larger buildings are gutted.

Bridge - under construction, over Tama River, NE of Target 4011 - destroyed.

Annotated and attached: Area Map of S. Tokyo, Kawasaki,
Yokohama

Attached: 3PR5M 157 - 1V: 109

Approved. *H. D. Webster* J. S. H. A. C.
HAMILTON D. DAREY,
MAJOR, AC

DISTRIBUTION: "B"

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SAN FRANCISCO, CALIFORNIA

(Combined FI Sections: 3rd Photo Recon Squadron and 35th Photo Tech Unit)

11 May 1945

CORRECTION

DAMAGE ASSESSMENT REPORT NO. 47

Under "Area Target 90.17-3604:

"127,000,000 sq. ft., 2800 acres, 4.5 sq. mi., 55%" should
be changed to read - 92,443,600 sq. ft., 2100 acres, 3.3 sq. mi.,
40%.

Approved... *Richard C. Bass*
For HAMILTON D. BARRY, *Capt AC*
MAJOR, AC.

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109

DAMAGE ASSESSMENT REPORT Nº 47
C.I.U. XXI Bom Com.



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CONFIDENTIAL - SECURITY INFORMATION

CONFIDENTIAL - SECURITY INFORMATION