

10000 * PUMPKIN

SECRET

509th Gp. Missions

TARGET	Target Number	Mission Number	Date of Mission	Nu. of Bombs	Tons of Bombs	No A/C Bombing	Location
Yokkaichi Heavy Industries	1737	7	7-24-45	1	5.0	1	Yokkaichi
Yokkaichi Heavy Industries	1737	15	8-7-45	1	5.0	1	Yokkaichi
Koriyama Light Industries	--	11	7-29-45	1	5.0	1	Koriyama
Fukushima Light Industries	6216	2	7-20-45	1	5.0	1	Fukushima
Uwajima Assy. Plant	6278	14	8-7-45	1	5.0	1	Uwajima
Tokushima Light Industries	--	14	8-7-45	1	5.0	1	Tokushima
Rayo Toyo Rayon Plant	--	7	7-24-45	1	5.0	1	
Nakajima A/C Plant, Musashino Plant	357	11	7-29-45	1	5.0	1	Tokyo
* Toyoda Auto Wks., Koromo Plant	1139	18	8-14-45	3	15.0	3	
Nagoya Arsenal, Torumatsu Factory	200	17	8-14-45	3	15.0	3	Nagoya
Nagoya Arsenal, Takaki Factory	1691	17	8-14-45	1	5.0	1	Nagoya
Tsugami Atagi Mfg. Co.	1656	3	7-20-45	1	5.0	1	
Fugikashi Steel Co., Higashi Iwase	1943	4	7-20-45	1	5.0	1	
* Kobe Steel Works <i>secondary</i>	1768	6	7-24-45	1	5.0	1	Kobe
Hitachi Copper Refinery	812	8	7-26-45	1	5.0	1	
Nichiman Aluminum Co.	861	4	7-20-45	1	5.0	1	
Nippon Soda Co.	866	4	7-20-45	1	5.0	1	
* Sumitomo Aluminum Reduction Plant	924	5	7-24-45	1	5.0	1	
Ube Nitrogen Fertilizer Co.	818	10	7-29-45	1	5.0	1	Ube
* Sumitomo Chemical Co.	923	5	7-24-45	1	5.0	1	
Ube Soda Co. <i>USE</i>	1844	10	7-29-45	1	5.0	1	Ube
Tsuruga Chemical Plant	6126	14	8-7-45	1	5.0	1	
* Kawasaki Car Co. (Locomotives & Tanks) at KOBE	11	6	7-24-45	1	5.0	1	Kobe
IGK Shops	538	6	7-24-45	1	5.0	1	Kobe
Nakayama Oil Refinery	--	12	7-29-45	1	5.0	1	Wakayama
Utsube Utsube River Oil Refinery	1684	15	8-7-45	1	5.0	1	So. of Yokkaichi
Nippon Motor Oil Co.	1880	10	7-29-45	1	5.0	1	Ube
Koriyama Marshalling Yards	--	11	7-29-45	1	5.0	1	Koriyama
Yaizu RR Yards	--	9	7-26-45	1	5.0	1	Yaizu
Maizuru Naval Base	--	12	7-29-45	1	5.0	1	Maizuru
Mitsubishi Heavy Industry	--	6	7-24-45	1	5.0	1	Kobe
Toyama	--	9	7-26-45	1	5.0	1	
Taira	--	1	7-20-45	1	5.0	1	
Taira	--	3	7-20-45	1	5.0	1	
Taira	--	8	7-26-45	1	5.0	1	
Shimoda	--	9	7-26-45	1	5.0	1	
Otsu	--	1	7-20-45	1	5.0	1	
Ogaki	--	7	7-24-45	1	5.0	1	
Nagasaki (ATOM BOMB)	--	16	8-9-45	1	-	1	
Kashiwazaki	--	8	7-26-45	1	5.0	1	
Hiroshima (ATOM BOMB)	--	13	8-6-45	1	-	1	
Hamamatsu	--	9	7-26-45	1	5.0	1	
Tokyo	--	1	7-20-45	1	5.0	1	
Osaka	--	9	7-26-45	1	5.0	1	
Nagoya	--	9	7-26-45	1	5.0	1	



SECRET

TARGETS

NAME	NO. ATTACKS	SORTIES	BOMBS	LOST	% DAMAGE	SQ. MILES
Tokyo	7	1876	11887	68	51	56.3
Osaka	3	1146	7151	14	26	15.59
Nagoya	5	1572	9910	21	22	11.3
Kobe	3	847	5568	14	51	8.
Yokohama	1	459	2721	7	44	8.9
Kawasaki	1	194	1110	12	25	2.9
Hamamatsu	3	478	2812	4	70	2.97
Kagoshimo	1	114	810	1	50	2.
Yokkaichi	1	87	569	0	35	1.23
Toyohashi	1	136	946	0	35	1.7
Fukuoka	1	217	1532	0	20	1.3
Shizuoka	1	119	895	2	66	2.28
Omuta	1	110	766	0	2.5	.11
Okayama	1	136	965	1	63	2.1
Sasebo	1	141	1067	0	18	.41
Moji	1	91	624	0	29	.32
Nobeoka	1	117	829	0	36	.52
Kuremoto	1	152	1039	0	46	1.5
Kumamoto	1	154	1111	1	16	.8
Ube	1	100	715	0	23	.42
Shimonoseki	1	126	819	1	36	.51
Takamatsu	1	116	828	1	78	1.4
Kochi	1	126	1057	1	48	.9
Himeji	1	105	761	0	72	1.4
Tokushima	1	129	1051	0	74	1.7
Chiba	1	124	889	0	43.4	.86
Akashi	1	123	951	0	43.5	.75

NAME	NO. ATTACKS	SORTIES	BOMBS	LOST	% DAMAGE	SQ. MILES
Shimizu	1	133	1030	0	44	.67
Kofu	1	130	965	0	64	1.3
Sendai	1	123	907	0		
Sakai	1	115	766	0	42	.7
Wakayama	1	108	804	0	52	2.1
Gifu	1	129	899	1	74	1.93
Amagasaki	1	PART OF OSAKA BOMB LOAD			11	.75
Utsunomiya	1	115	799	1		
Ichinomiya	1	123	763	0	.8	.01
Tsuruga	1	92	679	0		
Uwajima	1	124	871	0	16	.14
Numazu	1	119	1052	0		
Oita	1	127	790	0	25	.55
Kuwana	1	94	693	0		
Hiratsuka	1	131	1142	0		
Fukui	1	126	857	0		
Hitachi	1	126	777			
Chosi	1	91	683	0		
Okazaki	1	126	910	0		
Tsu	1	76	730	0		
Amori	1	61	546	0		
Matsuyama	1	130	914	0	73	
Tokuyama	1	97	641	0		
Ujiyamada	1	93	735	0		
Ogaki	1	91	644	0		
Hachioji	1	160	1561	1		
Toyama	1	173	1456	0		

NAME	NO. ATTACKS	SORTIES	BOMBS	LOST	% DAMAGE	SQ. MILES
Nagoka	1	125	957	0		
Mito	1	160	1146	0		
Saga	1	59		0		
Maebashi	1	81		0		
Nishinomiya	1	232		1		
Imabari	1	64				
Fukuyama	1	91				
Sumitomo Kanzaki Prop Pl					DAMAGE FROM INCENDIARY ATTACK	66
Mitsubishi Assem	2	103	248	8	68.5	
Engine	7	571	2667	18	94	
Mishima	1	107	598	1	86	
Kagamigahara	2	77	509	0	20	
Japan Mus Inst Prop Pl					DAMAGE FROM INCENDIARY ATTACK	35
Musashino	11	450	2343	42	62.6	
Ota	1	86	241	12	74.6	
Koizumi	1	43	275	0	49.5	
Kawasaki Akashi	4	142	634	1	45.1	
Kagamigahara	2	39	226	1	60.5	
Hiro A/C	1	148	578	2	43	
Onura	9	379	1003	36	43	
Kawanishi Takarazuka	1	78	455	0		
Naruo	1	44	261	0	73.4	
Fukae	1	92	460	1	39	
Himeji	1	52	352	0		
Aichi Atsuta	1	38	274	0	96	
Eitoku	1	50	347	2	19.3	
Mining XX BC	7	156	542	0		
XXI BC -						
Thru Mis. 282	39	1201	7500	12		
Hitachi Chiba	1	29	163	0		
Tachikawa	1	108	401	4	73.5	
Kaigan	1	118	204	0	97.5	

NAME	NO. ATTACKS	SORTIES	BOMBS	LOST	% DAMAGE	SQ. MILES
Koriyama Chemical	1	74	179	2	73	
Hodogaya Chemical	1	66	274	0	59	
Kyushu A/F Thru Mission 168	80	2017	8575	23		
Sumitomo Osaka	1	64	382	0	12	
Nagoya	1	27	150	1	52.5	
Kasumigaura S P	2	74	400	1	39.5	
Tokuyama Oil	1	110	504	0	85	
Shizuoka A/C	1	48	181	0	86.3	
Ishikawajima Eng.	1	32	171	0		
Otake Oil	1	112	549	1		
Oshima Oil	1	80	383	0		
Kure Naval Arsenal	1	156	761	2	56	
Nagoya Arsenal Chigusa	1	31	178	0	77	
Atsuta	1	16	95	1	55	
Osaka Arsenal	1	109	759	1		
Utsube Oil Refinery	2	94	692	0	50	
Nippon Oil Kudomatsu	3	177	1391	0		
Maruzen Oil Refinery	2	97	709	0	95	
Petroleum Center Kawasaki	1	52	440	2		
Tachikawa AA Arsenal					35.1	
Tachikawa Air Depot	1	90	762	1	17.5	

STATISTICS

DATE	UNIT	SORTIES	TONS DROPPED	B29s LOST		ENEMY A/C		DAM
				E/A	OPER	DEST	P DEST	
1944	XX BE	1704	5746	34	36	143	93	216
	XXI BC	747	2066	14	10	56	68	69
1945 Jan	XX	466	2118	3	1	10	8	28
	XXI	469	1002	23	4	140	67	144
Feb	XX	490	1785	2	2	4	4	28
	XXI	724	1670	12	8	71	59	124
Mar	XX	399	1608	2	0	1	1	9
	XXI	2534	13730	22	12	14	7	7
Apr	XX	0	0	0	0	0	0	0
	XXI	3278	17231	47	9	202	105	196
May	XX	0	0	0	0	0	0	0
	XXI	4342	24812	59	29	131	82	109
June	XX	0	0	0	0	0	0	0
	XXI	5271	32361	31	12	138	70	157
July	20 AF	6057	127332	12	10	1	20	0

CUMULATIVE THRU 31 JULY 1945

8 AF	3058	11244	41	39	158	106	281
20 AF	23442	134521	226	93	753	478	806
USASTAF	26500	145765	267	132	911	584	1087

STATUS AIR FORCE

DEPLOYMENT
Groups

	8th	20th	TOTAL	SORTIES
April '45	0	14	14	3278
May	0	16	16	4340
June	0	18	18	5293
July	0	20	20	6057
August	0	20	20	7488
Sept	2	20	22	8118
Oct	6	20	26	10080
Nov	8	20	28	12690
Dec	10	20	30	14184
Jan '46	12	20	32	15336
Feb	16	20	36	16704
March	20	20	40	19008
April	20	20	40	20880
May	20	20	40	20880

PLANNING FACTORS

	20 AF	8 AF
SORTIES PER UE	13	16
TONS PER SORTIE	8	12
HOURS PER UE	140	95
A/C ATTRITION	1.0	1.0
CREW ATTRITION	.75	.75

BOMB BREAKDOWN

		50% IB		50% HE			
M-76	M-47	M-74	M-69	M-50	500 lb	1000 lb	2000 lb
5.4	28.4	M-74	M-69	M-50	50	10	40
		41.6	24.6				

PRIORITY AIRCRAFT TARGETS

- X Sumitomo Kanzaki Prop Plant
- Japan Musical Instrument Prop Plant
- Japan International Aircraft Hiratsuka
- Yokosuka Naval Aircraft Factory
- Nakajima AC Ogikubo Plant
- Utsunomiya Plant
- Tama Musashino Plant
- Kawasaki AC Akashi Plant
- Kagamigahara Plant
- X Aichi Aircraft Engine Works
- TSU Naval Aircraft Plant
- Fuji Aircraft Co Ofuna Plant
- Ishikawajima Engine Plant
- Hitachi Aircraft Chiba Plant
- X Mitsubishi Aircraft Mishima Plant
- X Kawanishi Aircraft Naruo Plant

COMBAT STRENGTH

8th AF			20th AF
Aircraft	Crews		Aircraft
11		IN THEATER	992
12		ENROUTE	7
14		STAGING	6
		F13s	60
			Crews
			1593

OPERATIONS

MISSION	DATE	TARGET	NO AIRBORNE	AIRCRAFT		LOST	TONS ON PT	TARGET TIME
				BOMBING	P			
305	1 Aug	Mining	42	42	0	0	241	N
6		Hachioji	180	160	3	1	1561	N
7		Toyama	182	173	1	0	1456	N
8		Nagoka	136	125	5	0	957	N
9		Mito	167	160	1	0	1146	N
310		Kawasaki Petroleum	128	120	2	0	1020	N
11	5	Mining	29			0		N
12	5-6	Saga	65	59		0		N
13		Maebashi	102	81		0	3249	N
14		Nishinomiya	261	232	5	1		N
315		Imabari	66	64		0		N
16	5 6	Ube Coal	110	107		0	873	N
17	7	Toyokawa Arsenal		125		1	938	
18	8	Yawata		220	6	3	1300	
19		Fukuyama	412	91		0	620	
320	8	Nakajima Tokyo				1		
21	10	Nippon Oil Amagasaki		107				
22		Tokyo Arsenal		72				
23	10	Mining	31					
96	27 28 July	Mining	30	26	0	2	175	
97	28 29	Tsu	78	76	0	0	730	
98		Aomori	65	61	3	0	546	
99		Ichinomiya	129	122	1	0	1091	
300		Ujiyomada	99	93	1	0	780	
1		Ogaki	97	89	0	0	877	
2		Uwajima	32	29	0	0	257	
3		Shimatau Oil	82	76	1	0	650	
4		Mining	29	24	3	0	161	

MONTHLY TOTAL THRU MISSION

AIR ORDER OF BATTLE

	Kur- iles Hok- kaido Kara- futo	N Hon- shu	E Hon- shu	C Hon- shu	Kyu shu- W Hon- shu Shi- koku Sai- shu	Man- churia	Korea	China Hainan	For- mosa	Burma Thai land- Indo China	Malay Sum- atra And- amans	Philip- pines	Java E Nei	Pacific Area New Guinea	TOTAL
26 July	F 89	868	579	715	152	241	145	173	33	129			18	0	3142
	O 275	606	594	432	76	222	83	128	36	111			61	6	2630
	T 364	1474	1173	1147	228	463	228	301	69	240			79	6	5772
19 July	F 89	837	449	673	147	259	133	170	40	126	0		26	0	2949
	O 241	665	563	385	47	193	98	153	36	101	0		61	12	2555
	T 330	1502	1012	1058	194	452	231	323	76	227	0		87	12	5504

By AIR-NAVY DATA UNIT 5/5/71



**SUPPLEMENTARY TABLE
TWENTIETH AIR FORCE
SPECIAL BOMBING MISSIONS
509TH COMPOSITE GROUP**

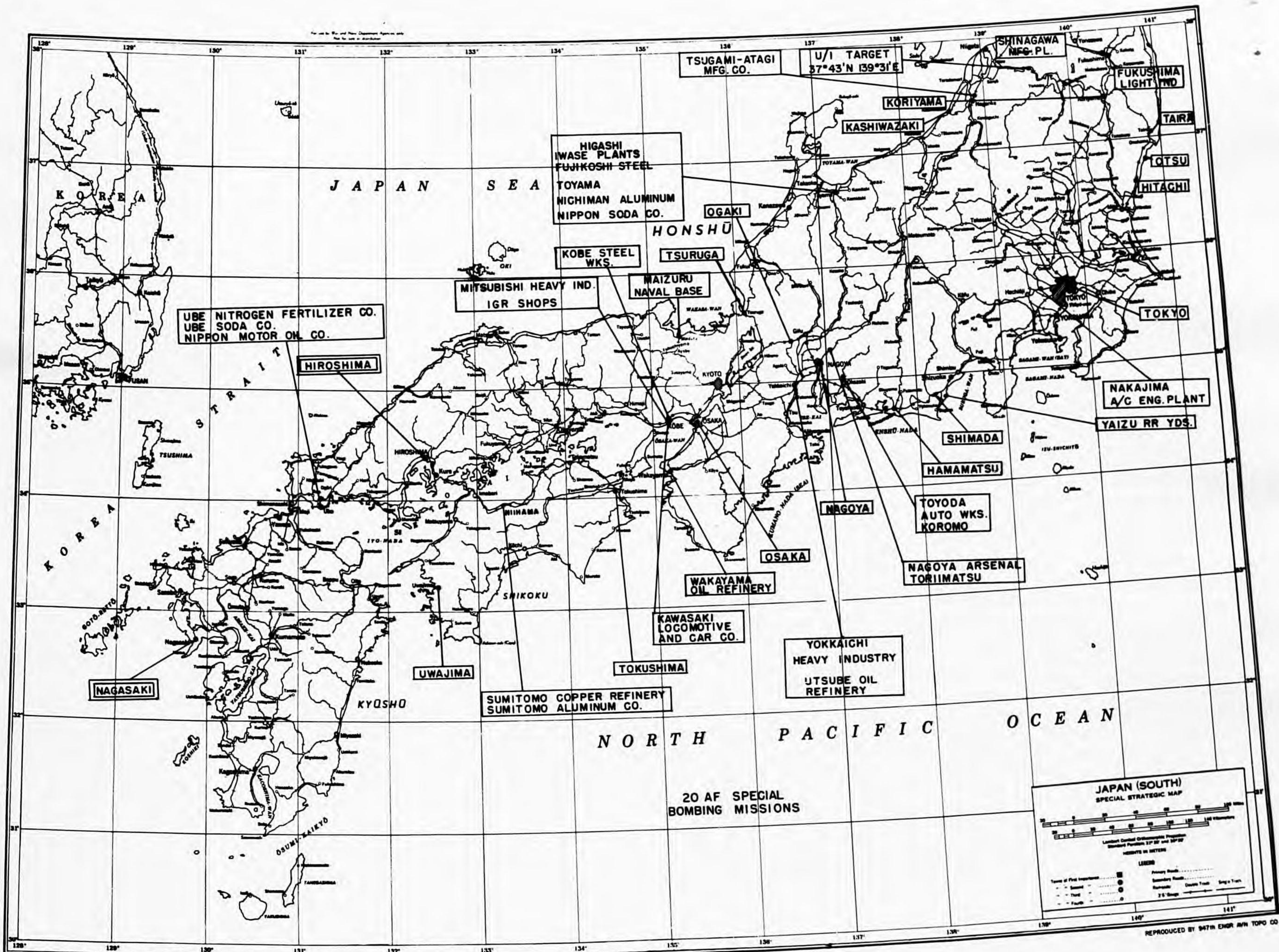
SECRET:
By Authority of
The Commanding General
USASTAF
1 October 1945 *A.P.M.*

TARGET NO.	TARGET NAME	MISSION NUMBER	DATE	A/C OVER TARGET	BOMBING ALTITUDE	NO. BOMBS ON TARGET *	METHOD OF BOMBING	AIMING POINT		RESULTS OF BOMBING	
								M.P.T.	20TH AIR FORCE REPORT	OBSERVED	U.A. REPORTS
90.14-Urban	OTSU	1	7-20-45	5	28,000	1 Spec	R	Center of each U/A	None	None	No Post Strike Photos
90.17-Urban	TOKYO		7-20-45		28,000	1 Spec	R		None	None	
90.10-Urban	TAIRA		7-20-45		28,000	1 Spec	R		None	None	
90.10-6218	LIGHT INDUSTRY, FUKUSHIMA	2	7-20-45	2	25,000	1 Spec	R	044112	FUKUSHIMA AREA	None	No Post Strike Photos
90.10-1885	SHINAGAWA MANUFACTURING PLANT		7-20-45					060115	90.14-Urban	None	
90.9-1888	AYAGI MFG. CO., TSUGAMI	3	7-20-45	2	28,000	1 Spec	R	120098	NAGAKA	None	No Post Strike Photos
90.10-Urban	TAIRA		7-20-45		30,000	1 Spec	R	Center of U/A		None	
90.11-1943	POYIKASHI STEEL, HIGASHI-IRIASE	4	7-20-45	3	31,100	1 Spec	V	139070	TOYAMA Area "B"	None	
90.11-861	NICHIMAN ALUMINUM CO., TOYAMA		7-20-45		31,200	1 Spec	V	099081	90.11-Urban	None	
90.11-6253	NIPPON SODA CO., TOYAMA		7-20-45			1 Spec	V	093011		Hit 4,000' over target due to mech. failure Hit 500' S of S corner of tgt.	
90.29-923	SUMITOMO COPPER REFINERY, NIHAMA	5	7-24-45	3	28,000	1 Spec	V	051128	NIHAMA	None	No Post Strike Photos
90.29-924	SUMITOMO ALUMINUM CO., NIHAMA		7-24-45		28,000	2 Spec	V	048117 078128	90.29-Urban	None	
90.25-538	I.S.H. SHOPS	6	7-24-45	4	28,700	1 Spec	V	007131	KOBE Area	None	No Post Strike Photos
90.25-11	KAWASAKI LOCOMOTIVE CAR CO.,		7-24-45		28,400	1 Spec	V	041117	90.25-Urban	None	
90.25-169	MITSUBISHI HEAVY INDUSTRY		7-24-45		25,200	1 Spec	V	058095		None	
90.25-1768	KOBE STEEL WORKS (ALL IN KOBE)		7-24-45		28,000	1 Spec	V	146126		None	
90.20-1737	HEAVY INDUSTRY, YOKKAICHI	7	7-24-45	3	28,000	1 Spec	R	072087	YOKKAICHI Area	None	No Post Strike Photos
90.25-	TOYO RAYON PLANT, SAKAI		7-24-45		28,000	1 Spec	V	Unspecified		Excellent	
90.20-Urban	OGAKI		7-24-45		28,000	1 Spec	V	Center of U/A		None	
90.9-Urban	KASHIWAZAKI	8	7-28-45	4	27,000	1 Spec	R	Center of U/A	None	Excellent	No Post Strike Photos
90.9-	U/I 37-43W 139-31E		7-28-45		28,000	1 Spec	V	Unspecified		None	
90.14-1492	HITACHI COPPER		7-28-45		28,000	1 Spec	V	Unspecified		Good	
90.10-Urban	TAIRA IND. AREA		7-28-45		27,000	1 Spec	V	Center of Area		Good	
90.18-Urban	SHIMODA	9	7-28-45	6	29,000	1 Spec	V	Center of U/A	None	Excellent	No Post Strike Photos
90.20-Urban	NAGOYA		7-28-45		27,000	1 Spec	R	Center of U/A		None	
90.21-Urban	YAMAMATSU		7-28-45		28,000	1 Spec	V	Center of U/A		Excellent	
90.11-Urban	TOYAMA		7-28-45		29,000	1 Spec	R	Center of U/A		None	
90.25-Urban	OSAKA		7-28-45		29,000	1 Spec	V	Center of U/A		None	
90.18-	YAIZU RR YARDS		7-28-45		28,000	1 Spec	R	Unspecified		None	
90.32-918	UBE NITROGEN FERTILIZER CO.	10	7-29-45	3	27,700	1 Spec	V	110098	UBE Area	Excellent	No Post Strike Photos
90.32-1844	UBE SODA CO.		7-29-45		28,500	1 Spec	V	106099		Excellent	
90.32-1980	NIPPON MOTOR OIL COMPANY		7-29-45		28,000	1 Spec	V	120064 117079		Good	
90.10-	KORIYAMA LIGHT INDUSTRY	11	7-29-45	3	29,900	1 Spec		058123	KORIYAMA	Excellent	No Post Strike Photos
90.17-357	NAKAYAMA A/C ENGINE PLANT		7-29-45		29,300	1 Spec		104131	TOKYO Area	Poor	
90.10-	KORIYAMA MARSHALLING YARDS		7-29-45		29,300	1 Spec		086085	KORIYAMA	Excellent	
90.25-	NAKAYAMA OIL REFINERY	12	7-29-45	2	30,000	1 Spec	V	Unspecified		Excellent	No Post Strike Photos
90.22-1041	MAIZURU NAVAL BASE		7-29-45		26,700	1 Spec	V	Unspecified		Excellent	
90.30-	HIROSHIMA	13	8-8-45	3	30,200	1 Atomic		063096	HIROSHIMA Area		D/A #132, 4.1 sq mi or 90% destroyed/damaged No Post Strike Photos
90.31-6278	U/I ASSEMBLY PLANT, UWAJIMA	14	8-8-45	3	29,000	1 Spec		038055	UWAJIMA Area	Good to Excellent	
90.22-6126	CHEMICAL PLANT, TSURUGA		8-8-45		30,000	1 Spec		094048	90.31-Urban TSURUGA Area	Excellent	
90.27-Urban	TOKUSHIMA		8-8-45		28,500	1 Spec		Center of U/A			
90.20-	YOKKAICHI HEAVY INDUSTRIES	15	8-8-45	2	29,000	1 Spec		072087	YOKKAICHI Area	Excellent	No Post Strike Photos
90.20-1684	UTSUNE OIL REFINERY		8-8-45		29,000	1 Spec		019041 066009	90.20-1884	Good	
90.36-Urban	NAGASAKI	16	8-9-45	3	28,000	1 Atomic		114061	NAGASAKI Area		D/A #137, 0.98 sq mi or 30% destroyed/damaged No Post Strike Photos
90.20-200	NAGOYA ARSENAL, TORIIMATSU PLANT	17	8-14-45	4	29,000	4 Spec		127068 119080 125077 124084	NAGOYA Arsenal, TORIIMATSU Factory	2 Excellent 1 Poor 1 Unobserved	
90.20-1139	TOYOTA AUTO WORKS, KOROZO	18	8-14-45	3	29,000 to 30,000	3 Spec		106014 106010 109007	KOROZO Urban Area	1 Good 2 Poor	No Post Strike Photos

* Specifications for individual bombs classified TOP SECRET

SOURCE: 20 AF Mission Reports, Field Orders, Damage Assessment Reports.

PREPARED BY
TARGET SECTION
OFFICE OF THE AC of S, A-2
HQ, USASTAF



Approved under the authority of the Chief of Engineers, U. S. Army, Washington, D. C.
 Prepared by the Army Map Service, Inc. 1945, from the following sources:
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By HR-A NARA, Date 2/27/11
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Arthur D. Little, Inc.
CHEMISTS · ENGINEERS



CAMBRIDGE 42, MASSACHUSETTS

MEMORIAL DRIVE
AT KENDALL SQUARE



RGH:HMR

September 13, 1945

Professor H. L. Bowman
Director Physical Damage Division
U. S. Strategic Bombing Survey
Room 2029
Air Forces Annex
Gravelly Point
Washington 25, D. C.

Dear Professor Bowman:

C-57542

1... The Japanese targets attacked by the 20th Air Force that we are studying and for which it would be extremely desirable to have ground information are as follows:

<u>Attack Number</u>	<u>Plant Number</u>	<u>Name and Location</u>	<u>Date of Attack</u>
1	90.25 - 1547	Kawasaki Aircraft Co., Akashi	19 Jan. 1945
➤ 2	90.18 - 2011	Shizuoka Aircraft Engine Plant, Shizuoka	12 Apr. 1945
➤ 3	90.20 - 2010 90.20 - 198	Aichi Aircraft Engine Works and Aichi Ordnance Plant, Nagoya	9 June 1945
4	90.20 - 240	Kawasaki Aircraft Works, Kagamigahara Plant, Gifu	22 June 1945
5	90.20 - 2040	Sumitomo Duralumin Mill, Nagoya	9 June 1945

With the exception of attack number 1, I do not know of any subsequent attacks on the plants listed above. However, some may have been hit in area attacks. Mr. Robert Newhall may be able to furnish some information on this point. Plant

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90.25 O 1547 was hit with 4000 lb. bombs on the 9th and 22nd of June. This would have provided a good attack to analyze, but was not usable because of poor post raid photo cover.

2... For target information description of buildings, production processes, etc., and for a record of all damage assessments consult the Economic Section of the Joint Target Group. They have two files on each target, filed by target numbers. I suggest that these files be looked at and relevant information be photostated before the field teams leave. These files were in room 5 E 165 in the section under Mr. S. De Palma. If this section has dissolved by now, some section in A2 has undoubtedly taken over.

3... For pre and post attack photo cover and attack strike pictures contact Major Kilgore, Extension 72672. If this number has been changed, consult Commander Timmis for the proper one.

4... For copies of damage assessments and plans, call Lt. Commander De Blieux, Room 1 E 414.

5... Relevant information on each target to be studied is attached to this letter. I am sending you also copies of damage plans, Building Construction Analysis, Sheets, and damage assessments for some of the plants. I would send copies for all plants but it is not possible to do so as our copies are either in Washington waiting to be put on punched cards or in the mail between Washington and Cambridge. The missing items can be found in the files in the economic section.

6... From the ground survey we would like to have the following specific information:

A. Pre raid information.

1. Structural characteristics of each building
2. Contents " " "
3. Function " " "
4. Fire vulnerability " " "

B. Damage information.

1. Measure extent and cause of damage to all buildings
2. Plot all bombs in the site area.

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By HR-A NARA, Date 5/5/71

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7... The attack information available on Washington and in the attached sheets is not reliable. For example, in attack number 3, the Washington reports list only 4000 lb. bombs whereas actually some 2000 lb. and 1000 lb. G P bombs were also dropped. Consult Le Roy Brothers on this point.

8... I hope that this information will be of help to you. I understand that several men from the structural analysis section of JTG will be going with the group. They are well qualified for this work and will no doubt have many points to investigate. Much of the information concerning these targets contained in this letter is already known by these men.

Best of traveling to you and the group. I am sorry that I am not able to go with you.

Sincerely yours

Robert J. Hansen

Robert J. Hansen

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TARGET AND ATTACK INFORMATION

1. Attack on Kawasaki Aircraft Co. 19 Jan. 1945

Reported Weapons:

610 M-64 500 lb. fused 0.1 N - 0.025 T
62 attacking airplanes

Photo cover: (none attached)

Pre: 3PR/5M17 2: 26-27

Post: 3PR/5M36 3L: 3-5
3PR/5M39 3L: 9-11
3PR/5M88 3L: 6-8

Strike: (No record available here, but strikes were taken. See 21BC/5M20)

Damage Analysis: (none attached)

The one prepared by the PI section and the one finally used by AN 23 differ slightly in numbers of bombs, and in cause of damage. See attached damage plan which was prepared for AN 23 use.

Damage Plan: (photostat attached)

Revised damage plan is attached.

Building construction analysis: (none attached)

(See file in economic section)

General: This plant has been attacked a number of times, three times in June 1945 with 4000 lb. LC bombs. If possible these attacks should be studied.