Hinoki

DE JAPAN 1944 to 1945

8156-0 MATSU Class

Displacement	1,262 ts	*Length*	322 ft	Yokosuka Navy Yard	
Complement		*Beam*	31 ft	*Launched*	07/04/1944
Sunk 01/07/1945		*Draft*	10.8 ft	*Completed*	09/03/1944

SEEKRIEG 5

SHIP LOG SHEET

Version 2/16/2009

3 x 12.7cm/40 Type 89 | 13

Max ROF	Range	Shell Size/Weight
12.0 sh/min	16,185 yds 32.4"	5.0" 51.7 lbs.

Fire Control			FC Radar	+ 0	AP	SAP
1		1D3	None		COM	HE

AA	2.7	Level	V	Ammunition	300 rpg	900

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	26	18	21	14	17	12	16	11
10 - 18	23	16	18	13	15	11	14	9
19 - 27	21	15	17	12	14	10	13	9
28 - 36	20	14	16	11	13	9	12	8
37 - 45	19	13	15	10	13	9	11	8

HE — PENETRATION TABLE

Yds	2,000	4,000	6,000	8,000	10,000	12,000	15,000	18,000	21,000	24,000	27,000	30,000	33,000	36,000
ROF	7.6	6.2	5.0	4.0	3.3	2.7	2.0	1.6						
Rge	S	S	M	M	L	L	E	E						
H	0.1	0.2	0.3	0.4	0.5	0.8	1.4	1.8						
V	3.9	2.8	2.1	1.7	1.3	1.2	1.1	1.3						

Crew	Sea	BR	Targ Sz	Ops
			0	

AIRCRAFT

Aircraft	0			Catapult	0	

TORPEDOES

TT	4	Ammo	8

61cm Type 93 M1-2

Damage Class	A

Settings

22,000/48

35,000/40

43,700/36

MINES

RAPID FIRE BATTERIES

RF1	24	25mm/60 Type 96			
Max Rg	7,440	14.9"	9	7	
Eff Rg	3,348	6.7"	13	10	

RF						
5	Port	12	10	7	4	2
	Stbd	12	10	7	4	2
AA	Port	49	39	27	16	7
M	Stbd	49	39	27	16	7

RF2		None			
Max Rg					
Eff Rg					

RF						
0	Port					
	Stbd					
AA	Port					
	Stbd					

RF3		None			
Max Rg					
Eff Rg					

RF						
	Port					
	Stbd					
AA	Port					
	Stbd					

Captain	

T#	BTTY	TARGET SHIP	SHELL	FCS	BR	H	RANGE	R	#RNDS	HITS

Coal (ts)	0	Oil (ts)	
Engines	Kampon GT		
Boilers	2 Kampon		

Radius (nm/kts)	
4680	16

Search Radar
No.22 M4
No.13 Type 3 M1

ASW MORTARS/ATW			DEPTH CHARGES			
2 Y-Guns			Rack	2		
None			Ammo	36		

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Hinoki

TIER	DP
1/70	65
2/80	129
3/75	194
4/85	258
5/80	323
6/90	381
7/85	439
8/95	497
9/90	555
10	613
10	651

DP	645
KTS	27

Engine Rm	2	27	16	0	0	0	0
Prop/Shaft	2	27	14	0	0	0	0
Boiler Rm	2	27	17	0	0	0	0
			0	0	0	0	0

Standard Turn	
90	
Emergency Turn	
120	

Target Sz	
0	
Searchlights	
Port	Stbd

Speed	00-09 kt	10-16 kt	17-20 kt	21-23 kt	24+ kt	
Increase	10.0	7.0	4.0	3.0	1.0	

Crew

Bridge Command Rating	Flag Command Rating	Damage Control (DCR)
		2

Fuel Code	

ARMOR	1.00	Actual
1H DECK	0.0	0.0
2H TURRET	0.0	0.0
3H SUPERSTR	0.0	0.0
4V CON	0.0	0.0
5V BELT MID	0.0	0.0
6V BELT END	0.0	0.0
7V BARBETTE	0.0	0.0
8V TURRET	0.0	0.0
9V SUPERSTR	0.0	0.0

T#	DE #	SEVERITY	DESCRIPTION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	CODE	ORDER
																				AF	Obey signals from Flagship
																				AI	Independent Action
																				AX	Battle Stations!
																				AA	Abandon ship!
																				AZ	Strike colors
COURSE AND SPEED																					
																				CA	Midships steady
																				CP #	Alter course to PORT
																				CS #	Alter course to STARBOARD
																				SF	Ahead full
																				SR#	Revolutions for # knots
																				SA	Full astern
																				SS	All stop
ILLUMINATION AND EVASION																					
																				EX	Evasive action
																				KX	Lay smoke
																				IS ##	Illuminate using starshell
																				IL #	Illuminate using searchlight
TORPEDO AND AIRCRAFT																					
																				TR (X)	Prepare to launch torpedoes to (X)
																				TL (X)	Launch torpedoes to (X)
																				VL	Prepare to launch aircraft
																				VX	Launch aircraft
PRIMARY BATTERY																					
																				B1D	Directed fire as range permits
																				B1V	Coordinated fire
																				B1L	Local control as range permits
																				B1P	Split fire
																				B1C	Change target
																				B1B	Barrage fire as range permits
RF BATTERY																					
																				R5B	Barrage fire as range permits
																				R6B	Barrage fire as range permits
																				R7B	Barrage fire as range permits

LOSS OF SPEED DURING TURNS

KTS	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
STD	3.0	4.5	6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5	18.0	19.5	21.0	22.5	24.0	25.5	27.0	28.5	30.0
E/EA	NA	NA	NA	NA	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0	20.0

TURNING SEGMENTS

DEG OF TURN	SEGMENTS
TO 15	2 Segments*
16 TO 45	2 Segments
46 TO 90	3 Segments
91 TO 135	4 Segments
136 TO 180	5 Segments

SHIPBOARD FIRE TRACKING

T#	Fire	Current Severity					T#	Fire	Current Severity				

FIGHTING SHIPBOARD FIRES

NO DAMAGE CONTROL	
ROLL	EFECT ON FIRE
01-03	-20 from severity
04-12	-10 from severity
13-50	No change
51-85	+10 to severity
86-95	+30 to severity
96-00	+40 to severity

DAMAGE CONTROL	
ROLL	EFECT ON FIRE
01-05	Fire extinguished
06-15	-30 from severity
16-45	-20 from severity
46-75	-10 from severity
76-90	No change
91-00	+10 to severity

Kaede

DE JAPAN 1944 to 1945

8158-0 MATSU Class

Displacement	1,262 ts	*Length*	322 ft	Yokosuka Navy Yard	
Complement		*Beam*	31 ft	*Launched*	07/25/1944
To China 1947		*Draft*	10.8 ft	*Completed*	10/30/1944

SEEKRIEG 5

SHIP LOG SHEET

Version 2/16/2009

3 x 12.7cm/40 Type 89 | 13

Max ROF	Range	Shell Size/Weight
12.0 sh/min	16,185 yds 32.4"	5.0" 51.7 lbs.

Fire Control			FC Radar	+ 0	AP	SAP
1		1D3	None		COM	HE

AA	2.7	Level	V	Ammunition	300 rpg	900

FIRE CONTROL TABLE								
T Kts	Short		Medium		Long		Extreme	
0 - 9	26	18	21	14	17	12	16	11
10 - 18	23	16	18	13	15	11	14	9
19 - 27	21	15	17	12	14	10	13	9
28 - 36	20	14	16	11	13	9	12	8
37 - 45	19	13	15	10	13	9	11	8

HE	PENETRATION TABLE													
Yds	2,000	4,000	6,000	8,000	10,000	12,000	15,000	18,000	21,000	24,000	27,000	30,000	33,000	36,000
ROF	7.6	6.2	5.0	4.0	3.3	2.7	2.0	1.6						
Rge	S	S	M	M	L	L	E	E						
H	0.1	0.2	0.3	0.4	0.5	0.8	1.4	1.8						
V	3.9	2.8	2.1	1.7	1.3	1.2	1.1	1.3						

Crew	Sea	BR	Targ Sz	Ops
			0	

AIRCRAFT

Aircraft	0			Catapult	0	

TORPEDOES

TT	4	Ammo	8

61cm Type 93 M1-2

Damage Class	A

Settings

22,000/48

35,000/40

43,700/36

MINES

RAPID FIRE BATTERIES

RF1	24	25mm/60 Type 96			
Max Rg	7,440	14.9"	9	7	
Eff Rg	3,348	6.7"	13	10	

RF						
5	Port	12	10	7	4	2
	Stbd	12	10	7	4	2
AA	Port	49	39	27	16	7
M	Stbd	49	39	27	16	7

RF2		None			
Max Rg					
Eff Rg					

RF						
0	Port					
	Stbd					
AA	Port					
	Stbd					

RF3		None			
Max Rg					
Eff Rg					

RF						
	Port					
	Stbd					
AA	Port					
	Stbd					

Captain

T#	BTTY	TARGET SHIP	SHELL	FCS	BR	H	RANGE	R	#RNDS	HITS

Coal (ts)	0	Oil (ts)	
Engines	Kampon GT		
Boilers	2 Kampon		

Radius (nm/kts)	
4680	16

Search Radar
No.22 M4
No.13 Type 3 M1

ASW MORTARS/ATW			DEPTH CHARGES			
2 Y-Guns			Rack	2		
None			Ammo	36		

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Kaede

TIER	DP
1/70	65
2/80	129
3/75	194
4/85	258
5/80	323
6/90	381
7/85	439
8/95	497
9/90	555
10	613
10	651

DP	645
KTS	27

Engine Rm	2	27	16	0	0	0	0
Prop/Shaft	2	27	14	0	0	0	0
Boiler Rm	2	27	17	0	0	0	0
			0	0	0	0	0

Standard Turn	
90	
Emergency Turn	
120	

Target Sz	
0	
Searchlights	
Port	Stbd

Speed	00-09 kt	10-16 kt	17-20 kt	21-23 kt	24+ kt	
Increase	10.0	7.0	4.0	3.0	1.0	

Crew

Bridge Command Rating	Flag Command Rating	Damage Control (DCR)
		2

Fuel Code	

ARMOR	1.00	Actual
1H DECK	0.0	0.0
2H TURRET	0.0	0.0
3H SUPERSTR	0.0	0.0
4V CON	0.0	0.0
5V BELT MID	0.0	0.0
6V BELT END	0.0	0.0
7V BARBETTE	0.0	0.0
8V TURRET	0.0	0.0
9V SUPERSTR	0.0	0.0

T#	DE #	SEVERITY	DESCRIPTION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	CODE	ORDER
																				AF	Obey signals from Flagship
																				AI	Independent Action
																				AX	Battle Stations!
																				AA	Abandon ship!
																				AZ	Strike colors
COURSE AND SPEED																					
																				CA	Midships steady
																				CP #	Alter course to PORT
																				CS #	Alter course to STARBOARD
																				SF	Ahead full
																				SR#	Revolutions for # knots
																				SA	Full astern
																				SS	All stop
ILLUMINATION AND EVASION																					
																				EX	Evasive action
																				KX	Lay smoke
																				IS ##	Illuminate using starshell
																				IL #	Illuminate using searchlight
TORPEDO AND AIRCRAFT																					
																				TR (X)	Prepare to launch torpedoes to (X)
																				TL (X)	Launch torpedoes to (X)
																				VL	Prepare to launch aircraft
																				VX	Launch aircraft
PRIMARY BATTERY																					
																				B1D	Directed fire as range permits
																				B1V	Coordinated fire
																				B1L	Local control as range permits
																				B1P	Split fire
																				B1C	Change target
																				B1B	Barrage fire as range permits
RF BATTERY																					
																				R5B	Barrage fire as range permits
																				R6B	Barrage fire as range permits
																				R7B	Barrage fire as range permits

LOSS OF SPEED DURING TURNS

KTS	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
STD	3.0	4.5	6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5	18.0	19.5	21.0	22.5	24.0	25.5	27.0	28.5	30.0
E/EA	NA	NA	NA	NA	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0	20.0

TURNING SEGMENTS

DEG OF TURN	SEGMENTS
TO 15	2 Segments*
16 TO 45	2 Segments
46 TO 90	3 Segments
91 TO 135	4 Segments
136 TO 180	5 Segments

SHIPBOARD FIRE TRACKING

T#	Fire	Current Severity					T#	Fire	Current Severity				

FIGHTING SHIPBOARD FIRES

NO DAMAGE CONTROL	
ROLL	EFECT ON FIRE
01-03	-20 from severity
04-12	-10 from severity
13-50	No change
51-85	+10 to severity
86-95	+30 to severity
96-00	+40 to severity

DAMAGE CONTROL	
ROLL	EFECT ON FIRE
01-05	Fire extinguished
06-15	-30 from severity
16-45	-20 from severity
46-75	-10 from severity
76-90	No change
91-00	+10 to severity

Kashi

DE JAPAN 1944 to 1945

8157-0 MATSU Class

Displacement	1,262 ts	*Length*	322 ft	Fujinagata, Osaka	
Complement		*Beam*	31 ft	*Launched*	08/13/1944
Scrapped 1948		*Draft*	10.8 ft	*Completed*	09/30/1944

SEEKRIEG 5

SHIP LOG SHEET

Version 2/16/2009

3 x 12.7cm/40 Type 89 | 13

Max ROF	Range	Shell Size/Weight
12.0 sh/min	16,185 yds 32.4"	5.0" 51.7 lbs.

Fire Control	FC Radar	
1 1D3	None	+ 0

AP	SAP
COM	HE

AA	2.7	Level	V	Ammunition	300 rpg	900

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	26	18	21	14	17	12	16	11
10 - 18	23	16	18	13	15	11	14	9
19 - 27	21	15	17	12	14	10	13	9
28 - 36	20	14	16	11	13	9	12	8
37 - 45	19	13	15	10	13	9	11	8

HE — PENETRATION TABLE

Yds	2,000	4,000	6,000	8,000	10,000	12,000	15,000	18,000	21,000	24,000	27,000	30,000	33,000	36,000
ROF	7.6	6.2	5.0	4.0	3.3	2.7	2.0	1.6						
Rge	S	S	M	M	L	L	E	E						
H	0.1	0.2	0.3	0.4	0.5	0.8	1.4	1.8						
V	3.9	2.8	2.1	1.7	1.3	1.2	1.1	1.3						

Crew	Sea	BR	Targ Sz	Ops
			0	

AIRCRAFT

Aircraft	0			Catapult	0	

TORPEDOES

TT	4	Ammo	8

61cm Type 93 M1-2

Damage Class	A

Settings

22,000/48

35,000/40

43,700/36

MINES

RAPID FIRE BATTERIES

RF1	24	25mm/60 Type 96			
Max Rg	7,440	14.9"	9	7	
Eff Rg	3,348	6.7"	13	10	

RF						
5	Port	12	10	7	4	2
	Stbd	12	10	7	4	2
AA	Port	49	39	27	16	7
M	Stbd	49	39	27	16	7

RF2		None			
Max Rg					
Eff Rg					

RF						
0	Port					
	Stbd					
AA	Port					
	Stbd					

RF3		None			
Max Rg					
Eff Rg					

RF						
	Port					
	Stbd					
AA	Port					
	Stbd					

Captain	

T#	BTTY	TARGET SHIP	SHELL	FCS	BR	H	RANGE	R	#RNDS	HITS

Coal (ts)	0	Oil (ts)	
Engines	Kampon GT		
Boilers	2 Kampon		

Radius (nm/kts)	
4680	16

Search Radar
No.22 M4
No.13 Type 3 M1

ASW MORTARS/ATW			DEPTH CHARGES			
2 Y-Guns			Rack	2		
None			Ammo	36		

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Kashi

TIER	DP
1/70	65
2/80	129
3/75	194
4/85	258
5/80	323
6/90	381
7/85	439
8/95	497
9/90	555
10	613
10	651

DP	645								
KTS	27								

Engine Rm	2	27	16	0	0	0	0
Prop/Shaft	2	27	14	0	0	0	0
Boiler Rm	2	27	17	0	0	0	0
			0	0	0	0	0

Standard Turn	
90	
Emergency Turn	
120	

Target Sz	
0	
Searchlights	
Port	Stbd

Speed	00-09 kt	10-16 kt	17-20 kt	21-23 kt	24+ kt	
Increase	10.0	7.0	4.0	3.0	1.0	

Crew

Bridge Command Rating				

Flag Command Rating				

Damage Control (DCR)				
2				

Fuel Code	

ARMOR	1.00	Actual
1H DECK	0.0	0.0
2H TURRET	0.0	0.0
3H SUPERSTR	0.0	0.0
4V CON	0.0	0.0
5V BELT MID	0.0	0.0
6V BELT END	0.0	0.0
7V BARBETTE	0.0	0.0
8V TURRET	0.0	0.0
9V SUPERSTR	0.0	0.0

T#	DE #	SEVERITY	DESCRIPTION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	CODE	ORDER
																				AF	Obey signals from Flagship
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																				AX	Battle Stations!
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																				EX	Evasive action
																				KX	Lay smoke
																				IS ##	Illuminate using starshell
																				IL #	Illuminate using searchlight
TORPEDO AND AIRCRAFT																					
																				TR (X)	Prepare to launch torpedoes to (X)
																				TL (X)	Launch torpedoes to (X)
																				VL	Prepare to launch aircraft
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																				B1B	Barrage fire as range permits
RF BATTERY																					
																				R5B	Barrage fire as range permits
																				R6B	Barrage fire as range permits
																				R7B	Barrage fire as range permits

LOSS OF SPEED DURING TURNS

KTS	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
STD	3.0	4.5	6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5	18.0	19.5	21.0	22.5	24.0	25.5	27.0	28.5	30.0
E/EA	NA	NA	NA	NA	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0	20.0

TURNING SEGMENTS

DEG OF TURN	SEGMENTS
TO 15	2 Segments*
16 TO 45	2 Segments
46 TO 90	3 Segments
91 TO 135	4 Segments
136 TO 180	5 Segments

SHIPBOARD FIRE TRACKING

T#	Fire	Current Severity					T#	Fire	Current Severity				

FIGHTING SHIPBOARD FIRES

NO DAMAGE CONTROL	
ROLL	EFECT ON FIRE
01-03	-20 from severity
04-12	-10 from severity
13-50	No change
51-85	+10 to severity
86-95	+30 to severity
96-00	+40 to severity

DAMAGE CONTROL	
ROLL	EFECT ON FIRE
01-05	Fire extinguished
06-15	-30 from severity
16-45	-20 from severity
46-75	-10 from severity
76-90	No change
91-00	+10 to severity

Kaya

DE JAPAN 1944 to 1945

1875-0 MATSU Class

Displacement	1,262 ts	*Length*	322 ft	Maizuru Navy Yard	
Complement		*Beam*	31 ft	*Launched*	07/30/1944
To USSR 1947		*Draft*	10.8 ft	*Completed*	09/30/1944

SEEKRIEG 5

SHIP LOG SHEET

Version 2/16/2009

3 x 12.7cm/40 Type 89 — 13

Max ROF	Range	Shell Size/Weight
12.0 sh/min	16,185 yds 32.4"	5.0" 51.7 lbs.

Fire Control	FC Radar	
1 1D3	None	+ 0

AP	SAP
COM	HE

AA	2.7	Level	V	Ammunition	300 rpg	900

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	26	18	21	14	17	12	16	11
10 - 18	23	16	18	13	15	11	14	9
19 - 27	21	15	17	12	14	10	13	9
28 - 36	20	14	16	11	13	9	12	8
37 - 45	19	13	15	10	13	9	11	8

HE — PENETRATION TABLE

Yds	2,000	4,000	6,000	8,000	10,000	12,000	15,000	18,000	21,000	24,000	27,000	30,000	33,000	36,000
ROF	7.6	6.2	5.0	4.0	3.3	2.7	2.0	1.6						
Rge	S	S	M	M	L	L	E	E						
H	0.1	0.2	0.3	0.4	0.5	0.8	1.4	1.8						
V	3.9	2.8	2.1	1.7	1.3	1.2	1.1	1.3						

Crew	Sea	BR	Targ Sz	Ops
			0	

AIRCRAFT

Aircraft	0			Catapult	0	

TORPEDOES

TT	4	Ammo	8

61cm Type 93 M1-2

Damage Class	A

Settings

22,000/48

35,000/40

43,700/36

MINES

RAPID FIRE BATTERIES

RF1	24	25mm/60 Type 96				
Max Rg	7,440	14.9"	9	7		
Eff Rg	3,348	6.7"	13	10		

RF						
5	Port	12	10	7	4	2
	Stbd	12	10	7	4	2
AA	Port	49	39	27	16	7
M	Stbd	49	39	27	16	7

RF2		None
Max Rg		
Eff Rg		

RF						
0	Port					
	Stbd					
AA	Port					
	Stbd					

RF3		None
Max Rg		
Eff Rg		

RF						
	Port					
	Stbd					
AA	Port					
	Stbd					

Captain	

T#	BTTY	TARGET SHIP	SHELL	FCS	BR	H	RANGE	R	#RNDS	HITS

Coal (ts)	0	Oil (ts)	
Engines	Kampon GT		
Boilers	2 Kampon		

Radius (nm/kts)	
4680	16

Search Radar
No.22 M4
No.13 Type 3 M1

ASW MORTARS/ATW			DEPTH CHARGES			
2 Y-Guns			Rack	2		
None			Ammo	36		

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Kaya

TIER	DP
1/70	65
2/80	129
3/75	194
4/85	258
5/80	323
6/90	381
7/85	439
8/95	497
9/90	555
10	613
10	651

DP	645
KTS	27

Engine Rm	2	27	16	0	0	0	0
Prop/Shaft	2	27	14	0	0	0	0
Boiler Rm	2	27	17	0	0	0	0
			0	0	0	0	0

Standard Turn	
90	
Emergency Turn	
120	

Target Sz	
0	
Searchlights	
Port	Stbd

Speed	00-09 kt	10-16 kt	17-20 kt	21-23 kt	24+ kt	
Increase	10.0	7.0	4.0	3.0	1.0	

Crew

Bridge Command Rating				

Flag Command Rating				

Damage Control (DCR)				
2				

Fuel Code	

ARMOR	1.00	Actual
1H DECK	0.0	0.0
2H TURRET	0.0	0.0
3H SUPERSTR	0.0	0.0
4V CON	0.0	0.0
5V BELT MID	0.0	0.0
6V BELT END	0.0	0.0
7V BARBETTE	0.0	0.0
8V TURRET	0.0	0.0
9V SUPERSTR	0.0	0.0

T#	DE #	SEVERITY	DESCRIPTION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	CODE	ORDER
																				AF	Obey signals from Flagship
																				AI	Independent Action
																				AX	Battle Stations!
																				AA	Abandon ship!
																				AZ	Strike colors
COURSE AND SPEED																					
																				CA	Midships steady
																				CP #	Alter course to PORT
																				CS #	Alter course to STARBOARD
																				SF	Ahead full
																				SR#	Revolutions for # knots
																				SA	Full astern
																				SS	All stop
ILLUMINATION AND EVASION																					
																				EX	Evasive action
																				KX	Lay smoke
																				IS ##	Illuminate using starshell
																				IL #	Illuminate using searchlight
TORPEDO AND AIRCRAFT																					
																				TR (X)	Prepare to launch torpedoes to (X)
																				TL (X)	Launch torpedoes to (X)
																				VL	Prepare to launch aircraft
																				VX	Launch aircraft
PRIMARY BATTERY																					
																				B1D	Directed fire as range permits
																				B1V	Coordinated fire
																				B1L	Local control as range permits
																				B1P	Split fire
																				B1C	Change target
																				B1B	Barrage fire as range permits
RF BATTERY																					
																				R5B	Barrage fire as range permits
																				R6B	Barrage fire as range permits
																				R7B	Barrage fire as range permits

LOSS OF SPEED DURING TURNS

KTS	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
STD	3.0	4.5	6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5	18.0	19.5	21.0	22.5	24.0	25.5	27.0	28.5	30.0
E/EA	NA	NA	NA	NA	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0	20.0

TURNING SEGMENTS

DEG OF TURN	SEGMENTS
TO 15	2 Segments*
16 TO 45	2 Segments
46 TO 90	3 Segments
91 TO 135	4 Segments
136 TO 180	5 Segments

SHIPBOARD FIRE TRACKING

T#	Fire	Current Severity					T#	Fire	Current Severity				

FIGHTING SHIPBOARD FIRES

NO DAMAGE CONTROL	
ROLL	EFECT ON FIRE
01-03	-20 from severity
04-12	-10 from severity
13-50	No change
51-85	+10 to severity
86-95	+30 to severity
96-00	+40 to severity

DAMAGE CONTROL	
ROLL	EFECT ON FIRE
01-05	Fire extinguished
06-15	-30 from severity
16-45	-20 from severity
46-75	-10 from severity
76-90	No change
91-00	+10 to severity

Keyaki

DE JAPAN 1944 to 1945

8160-0 MATSU Class

Displacement	1,262 ts	*Length*	322 ft	Yokosuka Navy Yard	
Complement		*Beam*	31 ft	*Launched*	09/30/1944
Target 1947		*Draft*	10.8 ft	*Completed*	12/15/1944

SEEKRIEG 5

SHIP LOG SHEET

Version 2/16/2009

3 x 12.7cm/40 Type 89 | 13

Max ROF	Range	Shell Size/Weight
12.0 sh/min	16,185 yds 32.4"	5.0" 51.7 lbs.

Fire Control	FC Radar	
1 1D3	None	+ 0

AP	SAP
COM	HE

AA	2.7	Level	V	Ammunition	300 rpg	900

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	26	18	21	14	17	12	16	11
10 - 18	23	16	18	13	15	11	14	9
19 - 27	21	15	17	12	14	10	13	9
28 - 36	20	14	16	11	13	9	12	8
37 - 45	19	13	15	10	13	9	11	8

HE — PENETRATION TABLE

Yds	2,000	4,000	6,000	8,000	10,000	12,000	15,000	18,000	21,000	24,000	27,000	30,000	33,000	36,000
ROF	7.6	6.2	5.0	4.0	3.3	2.7	2.0	1.6						
Rge	S	S	M	M	L	L	E	E						
H	0.1	0.2	0.3	0.4	0.5	0.8	1.4	1.8						
V	3.9	2.8	2.1	1.7	1.3	1.2	1.1	1.3						

Crew	Sea	BR	Targ Sz	Ops
			0	

AIRCRAFT

Aircraft	0			Catapult	0	

TORPEDOES

TT	4	Ammo	8

61cm Type 93 M1-2

Damage Class	A

Settings

22,000/48

35,000/40

43,700/36

MINES

RAPID FIRE BATTERIES

RF1	24	25mm/60 Type 96			
Max Rg	7,440	14.9"	9	7	
Eff Rg	3,348	6.7"	13	10	

RF						
5	Port	12	10	7	4	2
	Stbd	12	10	7	4	2
AA	Port	49	39	27	16	7
M	Stbd	49	39	27	16	7

RF2		None			
Max Rg					
Eff Rg					

RF						
0	Port					
	Stbd					
AA	Port					
	Stbd					

RF3		None			
Max Rg					
Eff Rg					

RF						
	Port					
	Stbd					
AA	Port					
	Stbd					

Captain	

T#	BTTY	TARGET SHIP	SHELL	FCS	BR	H	RANGE	R	#RNDS	HITS

Coal (ts)	0	Oil (ts)	
Engines	Kampon GT		
Boilers	2 Kampon		

Radius (nm/kts)	
4680	16

Search Radar
No.22 M4
No.13 Type 3 M1

ASW MORTARS/ATW		
2 Y-Guns		
None		

DEPTH CHARGES			
Rack	2		
Ammo	36		

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Keyaki

TIER	DP
1/70	65
2/80	129
3/75	194
4/85	258
5/80	323
6/90	381
7/85	439
8/95	497
9/90	555
10	613
10	651

DP	645
KTS	27

Fuel Code	

Engine Rm	2	27	16	0	0	0	0
Prop/Shaft	2	27	14	0	0	0	0
Boiler Rm	2	27	17	0	0	0	0
			0	0	0	0	0

Standard Turn	
90	
Emergency Turn	
120	

Target Sz	
0	
Searchlights	
Port	Stbd

Speed	00-09 kt	10-16 kt	17-20 kt	21-23 kt	24+ kt	
Increase	10.0	7.0	4.0	3.0	1.0	

Crew

Bridge Command Rating				

Flag Command Rating				

Damage Control (DCR)				
2				

ARMOR	1.00	Actual
1H DECK	0.0	0.0
2H TURRET	0.0	0.0
3H SUPERSTR	0.0	0.0
4V CON	0.0	0.0
5V BELT MID	0.0	0.0
6V BELT END	0.0	0.0
7V BARBETTE	0.0	0.0
8V TURRET	0.0	0.0
9V SUPERSTR	0.0	0.0

T#	DE #	SEVERITY	DESCRIPTION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	CODE	ORDER
																				AF	Obey signals from Flagship
																				AI	Independent Action
																				AX	Battle Stations!
																				AA	Abandon ship!
																				AZ	Strike colors
COURSE AND SPEED																					
																				CA	Midships steady
																				CP #	Alter course to PORT
																				CS #	Alter course to STARBOARD
																				SF	Ahead full
																				SR#	Revolutions for # knots
																				SA	Full astern
																				SS	All stop
ILLUMINATION AND EVASION																					
																				EX	Evasive action
																				KX	Lay smoke
																				IS ##	Illuminate using starshell
																				IL #	Illuminate using searchlight
TORPEDO AND AIRCRAFT																					
																				TR (X)	Prepare to launch torpedoes to (X)
																				TL (X)	Launch torpedoes to (X)
																				VL	Prepare to launch aircraft
																				VX	Launch aircraft
PRIMARY BATTERY																					
																				B1D	Directed fire as range permits
																				B1V	Coordinated fire
																				B1L	Local control as range permits
																				B1P	Split fire
																				B1C	Change target
																				B1B	Barrage fire as range permits
RF BATTERY																					
																				R5B	Barrage fire as range permits
																				R6B	Barrage fire as range permits
																				R7B	Barrage fire as range permits

LOSS OF SPEED DURING TURNS

KTS	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
STD	3.0	4.5	6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5	18.0	19.5	21.0	22.5	24.0	25.5	27.0	28.5	30.0
E/EA	NA	NA	NA	NA	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0	20.0

TURNING SEGMENTS

DEG OF TURN	SEGMENTS
TO 15	2 Segments*
16 TO 45	2 Segments
46 TO 90	3 Segments
91 TO 135	4 Segments
136 TO 180	5 Segments

SHIPBOARD FIRE TRACKING

T#	Fire	Current Severity					T#	Fire	Current Severity				

FIGHTING SHIPBOARD FIRES

NO DAMAGE CONTROL	
ROLL	EFECT ON FIRE
01-03	-20 from severity
04-12	-10 from severity
13-50	No change
51-85	+10 to severity
86-95	+30 to severity
96-00	+40 to severity

DAMAGE CONTROL	
ROLL	EFECT ON FIRE
01-05	Fire extinguished
06-15	-30 from severity
16-45	-20 from severity
46-75	-10 from severity
76-90	No change
91-00	+10 to severity

Kiri

DE JAPAN 1944 to 1945

8155-0 MATSU Class

Displacement	1,262 ts	*Length*	322 ft	Yokosuka Navy Yard	
Complement		*Beam*	31 ft	*Launched*	05/27/1944
To USSR 1947		*Draft*	10.8 ft	*Completed*	08/14/1944

SEEKRIEG 5

SHIP LOG SHEET

Version 2/16/2009

3 x 12.7cm/40 Type 89 — 13

Max ROF	Range	Shell Size/Weight
12.0 sh/min	16,185 yds 32.4"	5.0" 51.7 lbs.

Fire Control	FC Radar	
1 1D3	None	+ 0

AP	SAP
COM	HE

AA	2.7	Level	V	Ammunition	300 rpg	900

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	26	18	21	14	17	12	16	11
10 - 18	23	16	18	13	15	11	14	9
19 - 27	21	15	17	12	14	10	13	9
28 - 36	20	14	16	11	13	9	12	8
37 - 45	19	13	15	10	13	9	11	8

HE — PENETRATION TABLE

Yds	2,000	4,000	6,000	8,000	10,000	12,000	15,000	18,000	21,000	24,000	27,000	30,000	33,000	36,000
ROF	7.6	6.2	5.0	4.0	3.3	2.7	2.0	1.6						
Rge	S	S	M	M	L	L	E	E						
H	0.1	0.2	0.3	0.4	0.5	0.8	1.4	1.8						
V	3.9	2.8	2.1	1.7	1.3	1.2	1.1	1.3						

Crew	Sea	BR	Targ Sz	Ops
			0	

AIRCRAFT

Aircraft	0			Catapult	0	

TORPEDOES

TT	4	Ammo	8

61cm Type 93 M1-2

Damage Class	A

Settings

22,000/48

35,000/40

43,700/36

MINES

RAPID FIRE BATTERIES

RF1	24	25mm/60 Type 96			
Max Rg	7,440	14.9"	9	7	
Eff Rg	3,348	6.7"	13	10	

RF						
5	Port	12	10	7	4	2
	Stbd	12	10	7	4	2
AA	Port	49	39	27	16	7
M	Stbd	49	39	27	16	7

RF2		None			
Max Rg					
Eff Rg					

RF						
0	Port					
	Stbd					
AA	Port					
	Stbd					

RF3		None			
Max Rg					
Eff Rg					

RF						
	Port					
	Stbd					
AA	Port					
	Stbd					

Captain	

T#	BTTY	TARGET SHIP	SHELL	FCS	BR	H	RANGE	R	#RNDS	HITS

Coal (ts)	0	Oil (ts)	
Engines	Kampon GT		
Boilers	2 Kampon		

Radius (nm/kts)	
4680	16

Search Radar
No.22 M4
No.13 Type 3 M1

ASW MORTARS/ATW			DEPTH CHARGES			
2 Y-Guns			Rack	2		
None			Ammo	36		

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Kiri

TIER	DP
1/70	65
2/80	129
3/75	194
4/85	258
5/80	323
6/90	381
7/85	439
8/95	497
9/90	555
10	613
10	651

DP	645
KTS	27

Engine Rm	2	27	16	0	0	0	0
Prop/Shaft	2	27	14	0	0	0	0
Boiler Rm	2	27	17	0	0	0	0
			0	0	0	0	0

Standard Turn	
90	
Emergency Turn	
120	

Target Sz	
0	
Searchlights	
Port	Stbd

Speed	00-09 kt	10-16 kt	17-20 kt	21-23 kt	24+ kt	
Increase	10.0	7.0	4.0	3.0	1.0	

Crew

Bridge Command Rating	Flag Command Rating	Damage Control (DCR)
		2

Fuel Code	

ARMOR	1.00	Actual
1H DECK	0.0	0.0
2H TURRET	0.0	0.0
3H SUPERSTR	0.0	0.0
4V CON	0.0	0.0
5V BELT MID	0.0	0.0
6V BELT END	0.0	0.0
7V BARBETTE	0.0	0.0
8V TURRET	0.0	0.0
9V SUPERSTR	0.0	0.0

T#	DE #	SEVERITY	DESCRIPTION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	CODE	ORDER
																				AF	Obey signals from Flagship
																				AI	Independent Action
																				AX	Battle Stations!
																				AA	Abandon ship!
																				AZ	Strike colors
COURSE AND SPEED																					
																				CA	Midships steady
																				CP #	Alter course to PORT
																				CS #	Alter course to STARBOARD
																				SF	Ahead full
																				SR#	Revolutions for # knots
																				SA	Full astern
																				SS	All stop
ILLUMINATION AND EVASION																					
																				EX	Evasive action
																				KX	Lay smoke
																				IS ##	Illuminate using starshell
																				IL #	Illuminate using searchlight
TORPEDO AND AIRCRAFT																					
																				TR (X)	Prepare to launch torpedoes to (X)
																				TL (X)	Launch torpedoes to (X)
																				VL	Prepare to launch aircraft
																				VX	Launch aircraft
PRIMARY BATTERY																					
																				B1D	Directed fire as range permits
																				B1V	Coordinated fire
																				B1L	Local control as range permits
																				B1P	Split fire
																				B1C	Change target
																				B1B	Barrage fire as range permits
RF BATTERY																					
																				R5B	Barrage fire as range permits
																				R6B	Barrage fire as range permits
																				R7B	Barrage fire as range permits

LOSS OF SPEED DURING TURNS

KTS	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
STD	3.0	4.5	6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5	18.0	19.5	21.0	22.5	24.0	25.5	27.0	28.5	30.0
E/EA	NA	NA	NA	NA	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0	20.0

TURNING SEGMENTS

DEG OF TURN	SEGMENTS
TO 15	2 Segments*
16 TO 45	2 Segments
46 TO 90	3 Segments
91 TO 135	4 Segments
136 TO 180	5 Segments

SHIPBOARD FIRE TRACKING

T#	Fire	Current Severity					T#	Fire	Current Severity				

FIGHTING SHIPBOARD FIRES

NO DAMAGE CONTROL	
ROLL	EFECT ON FIRE
01-03	-20 from severity
04-12	-10 from severity
13-50	No change
51-85	+10 to severity
86-95	+30 to severity
96-00	+40 to severity

DAMAGE CONTROL	
ROLL	EFECT ON FIRE
01-05	Fire extinguished
06-15	-30 from severity
16-45	-20 from severity
46-75	-10 from severity
76-90	No change
91-00	+10 to severity

Kuwa

DE JAPAN 1944 to 1944

8154-0 MATSU Class

Displacement	1,262 ts	*Length*	322 ft	Fujinagata, Osaka	
Complement		*Beam*	31 ft	*Launched*	05/25/1944
Sunk 12/03/1944		*Draft*	10.8 ft	*Completed*	07/25/1944

SEEKRIEG 5

SHIP LOG SHEET

Version 2/16/2009

3 x 12.7cm/40 Type 89 13

Max ROF	Range	Shell Size/Weight
12.0 sh/min	16,185 yds 32.4"	5.0" 51.7 lbs.

Fire Control	FC Radar	
1 1D3	None	+ 0

AP	SAP
COM	HE

AA	2.7	Level	V	Ammunition	300 rpg	900

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	26	18	21	14	17	12	16	11
10 - 18	23	16	18	13	15	11	14	9
19 - 27	21	15	17	12	14	10	13	9
28 - 36	20	14	16	11	13	9	12	8
37 - 45	19	13	15	10	13	9	11	8

HE — PENETRATION TABLE

Yds	2,000	4,000	6,000	8,000	10,000	12,000	15,000	18,000	21,000	24,000	27,000	30,000	33,000	36,000
ROF	7.6	6.2	5.0	4.0	3.3	2.7	2.0	1.6						
Rge	S	S	M	M	L	L	E	E						
H	0.1	0.2	0.3	0.4	0.5	0.8	1.4	1.8						
V	3.9	2.8	2.1	1.7	1.3	1.2	1.1	1.3						

Crew	Sea	BR	Targ Sz	Ops
			0	

AIRCRAFT

Aircraft	0			Catapult	0	

TORPEDOES

TT	4	Ammo	8

61cm Type 93 M1-2

Damage Class	A

Settings

22,000/48

35,000/40

43,700/36

MINES

RAPID FIRE BATTERIES

RF1	24	25mm/60 Type 96			
Max Rg	7,440	14.9"	9	7	
Eff Rg	3,348	6.7"	13	10	

RF						
5	Port	12	10	7	4	2
	Stbd	12	10	7	4	2
AA	Port	49	39	27	16	7
M	Stbd	49	39	27	16	7

RF2		None			
Max Rg					
Eff Rg					

RF						
0	Port					
	Stbd					
AA	Port					
	Stbd					

RF3		None			
Max Rg					
Eff Rg					

RF						
	Port					
	Stbd					
AA	Port					
	Stbd					

Captain	

T#	BTTY	TARGET SHIP	SHELL	FCS	BR	H	RANGE	R	#RNDS	HITS

Coal (ts)	0	Oil (ts)	
Engines	Kampon GT		
Boilers	2 Kampon		

Radius (nm/kts)	
4680	16

Search Radar
No.22 M4
No.13 Type 3 M1

ASW MORTARS/ATW		
2 Y-Guns		
None		

DEPTH CHARGES			
Rack	2		
Ammo	36		

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Kuwa

TIER	DP
1/70	65
2/80	129
3/75	194
4/85	258
5/80	323
6/90	381
7/85	439
8/95	497
9/90	555
10	613
10	651

DP	645
KTS	27

Engine Rm	2	27	16	0	0	0	0
Prop/Shaft	2	27	14	0	0	0	0
Boiler Rm	2	27	17	0	0	0	0
			0	0	0	0	0

Standard Turn	
90	
Emergency Turn	
120	

Target Sz	
0	
Searchlights	
Port	Stbd

Speed	00-09 kt	10-16 kt	17-20 kt	21-23 kt	24+ kt	
Increase	10.0	7.0	4.0	3.0	1.0	

Crew

Bridge Command Rating	Flag Command Rating	Damage Control (DCR)
		2

Fuel Code	

ARMOR	1.00	Actual
1H DECK	0.0	0.0
2H TURRET	0.0	0.0
3H SUPERSTR	0.0	0.0
4V CON	0.0	0.0
5V BELT MID	0.0	0.0
6V BELT END	0.0	0.0
7V BARBETTE	0.0	0.0
8V TURRET	0.0	0.0
9V SUPERSTR	0.0	0.0

T#	DE #	SEVERITY	DESCRIPTION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	CODE	ORDER
																				AF	Obey signals from Flagship
																				AI	Independent Action
																				AX	Battle Stations!
																				AA	Abandon ship!
																				AZ	Strike colors
COURSE AND SPEED																					
																				CA	Midships steady
																				CP #	Alter course to PORT
																				CS #	Alter course to STARBOARD
																				SF	Ahead full
																				SR#	Revolutions for # knots
																				SA	Full astern
																				SS	All stop
ILLUMINATION AND EVASION																					
																				EX	Evasive action
																				KX	Lay smoke
																				IS ##	Illuminate using starshell
																				IL #	Illuminate using searchlight
TORPEDO AND AIRCRAFT																					
																				TR (X)	Prepare to launch torpedoes to (X)
																				TL (X)	Launch torpedoes to (X)
																				VL	Prepare to launch aircraft
																				VX	Launch aircraft
PRIMARY BATTERY																					
																				B1D	Directed fire as range permits
																				B1V	Coordinated fire
																				B1L	Local control as range permits
																				B1P	Split fire
																				B1C	Change target
																				B1B	Barrage fire as range permits
RF BATTERY																					
																				R5B	Barrage fire as range permits
																				R6B	Barrage fire as range permits
																				R7B	Barrage fire as range permits

LOSS OF SPEED DURING TURNS

KTS	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
STD	3.0	4.5	6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5	18.0	19.5	21.0	22.5	24.0	25.5	27.0	28.5	30.0
E/EA	NA	NA	NA	NA	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0	20.0

TURNING SEGMENTS

DEG OF TURN	SEGMENTS
TO 15	2 Segments*
16 TO 45	2 Segments
46 TO 90	3 Segments
91 TO 135	4 Segments
136 TO 180	5 Segments

SHIPBOARD FIRE TRACKING

T#	Fire	Current Severity					T#	Fire	Current Severity				

FIGHTING SHIPBOARD FIRES

NO DAMAGE CONTROL	
ROLL	EFECT ON FIRE
01-03	-20 from severity
04-12	-10 from severity
13-50	No change
51-85	+10 to severity
86-95	+30 to severity
96-00	+40 to severity

DAMAGE CONTROL	
ROLL	EFECT ON FIRE
01-05	Fire extinguished
06-15	-30 from severity
16-45	-20 from severity
46-75	-10 from severity
76-90	No change
91-00	+10 to severity

Maki

DE JAPAN 1944 to 1945

1881-0 MATSU Class

Displacement	1,262 ts	*Length*	322 ft	Maizuru Navy Yard	
Complement		*Beam*	31 ft	*Launched*	06/10/1944
Scrapped 1947		*Draft*	10.8 ft	*Completed*	08/10/1944

SEEKRIEG 5

SHIP LOG SHEET

Version 2/16/2009

3 x 12.7cm/40 Type 89 | 13

Max ROF	Range	Shell Size/Weight
12.0 sh/min	16,185 yds 32.4"	5.0" 51.7 lbs.

Fire Control			FC Radar	+ 0	AP	SAP
1		1D3	None		COM	HE

AA	2.7	Level	V	Ammunition	300 rpg	900

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	26	18	21	14	17	12	16	11
10 - 18	23	16	18	13	15	11	14	9
19 - 27	21	15	17	12	14	10	13	9
28 - 36	20	14	16	11	13	9	12	8
37 - 45	19	13	15	10	13	9	11	8

HE — PENETRATION TABLE

Yds	2,000	4,000	6,000	8,000	10,000	12,000	15,000	18,000	21,000	24,000	27,000	30,000	33,000	36,000
ROF	7.6	6.2	5.0	4.0	3.3	2.7	2.0	1.6						
Rge	S	S	M	M	L	L	E	E						
H	0.1	0.2	0.3	0.4	0.5	0.8	1.4	1.8						
V	3.9	2.8	2.1	1.7	1.3	1.2	1.1	1.3						

Crew	Sea	BR	Targ Sz	Ops
			0	

AIRCRAFT

Aircraft	0			Catapult	0	

TORPEDOES

TT	4	Ammo	8

61cm Type 93 M1-2

Damage Class	A

Settings

22,000/48

35,000/40

43,700/36

MINES

RAPID FIRE BATTERIES

RF1	24	25mm/60 Type 96			
Max Rg	7,440	14.9"	9	7	
Eff Rg	3,348	6.7"	13	10	

RF						
5	Port	12	10	7	4	2
	Stbd	12	10	7	4	2
AA	Port	49	39	27	16	7
M	Stbd	49	39	27	16	7

RF2		None			
Max Rg					
Eff Rg					

RF						
0	Port					
	Stbd					
AA	Port					
	Stbd					

RF3		None			
Max Rg					
Eff Rg					

RF						
	Port					
	Stbd					
AA	Port					
	Stbd					

Captain

T#	BTTY	TARGET SHIP	SHELL	FCS	BR	H	RANGE	R	#RNDS	HITS

Coal (ts)	0	Oil (ts)	
Engines	Kampon GT		
Boilers	2 Kampon		

Radius (nm/kts)	
4680	16

Search Radar
No.22 M4
No.13 Type 3 M1

ASW MORTARS/ATW			DEPTH CHARGES			
2 Y-Guns			Rack	2		
None			Ammo	36		

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Maki

TIER	DP
1/70	65
2/80	129
3/75	194
4/85	258
5/80	323
6/90	381
7/85	439
8/95	497
9/90	555
10	613
10	651

DP	645
KTS	27

Engine Rm	2	27	16	0	0	0	0
Prop/Shaft	2	27	14	0	0	0	0
Boiler Rm	2	27	17	0	0	0	0
			0	0	0	0	0

Standard Turn	
90	
Emergency Turn	
120	

Target Sz	
0	
Searchlights	
Port	Stbd

Speed	00-09 kt	10-16 kt	17-20 kt	21-23 kt	24+ kt	
Increase	10.0	7.0	4.0	3.0	1.0	

Crew

Bridge Command Rating	Flag Command Rating	Damage Control (DCR)
		2

Fuel Code	

ARMOR	1.00	Actual
1H DECK	0.0	0.0
2H TURRET	0.0	0.0
3H SUPERSTR	0.0	0.0
4V CON	0.0	0.0
5V BELT MID	0.0	0.0
6V BELT END	0.0	0.0
7V BARBETTE	0.0	0.0
8V TURRET	0.0	0.0
9V SUPERSTR	0.0	0.0

T#	DE #	SEVERITY	DESCRIPTION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	CODE	ORDER
																				AF	Obey signals from Flagship
																				AI	Independent Action
																				AX	Battle Stations!
																				AA	Abandon ship!
																				AZ	Strike colors
COURSE AND SPEED																					
																				CA	Midships steady
																				CP #	Alter course to PORT
																				CS #	Alter course to STARBOARD
																				SF	Ahead full
																				SR#	Revolutions for # knots
																				SA	Full astern
																				SS	All stop
ILLUMINATION AND EVASION																					
																				EX	Evasive action
																				KX	Lay smoke
																				IS ##	Illuminate using starshell
																				IL #	Illuminate using searchlight
TORPEDO AND AIRCRAFT																					
																				TR (X)	Prepare to launch torpedoes to (X)
																				TL (X)	Launch torpedoes to (X)
																				VL	Prepare to launch aircraft
																				VX	Launch aircraft
PRIMARY BATTERY																					
																				B1D	Directed fire as range permits
																				B1V	Coordinated fire
																				B1L	Local control as range permits
																				B1P	Split fire
																				B1C	Change target
																				B1B	Barrage fire as range permits
RF BATTERY																					
																				R5B	Barrage fire as range permits
																				R6B	Barrage fire as range permits
																				R7B	Barrage fire as range permits

LOSS OF SPEED DURING TURNS

KTS	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
STD	3.0	4.5	6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5	18.0	19.5	21.0	22.5	24.0	25.5	27.0	28.5	30.0
E/EA	NA	NA	NA	NA	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0	20.0

TURNING SEGMENTS

DEG OF TURN	SEGMENTS
TO 15	2 Segments*
16 TO 45	2 Segments
46 TO 90	3 Segments
91 TO 135	4 Segments
136 TO 180	5 Segments

SHIPBOARD FIRE TRACKING

T#	Fire	Current Severity					T#	Fire	Current Severity				

FIGHTING SHIPBOARD FIRES

NO DAMAGE CONTROL	
ROLL	EFECT ON FIRE
01-03	-20 from severity
04-12	-10 from severity
13-50	No change
51-85	+10 to severity
86-95	+30 to severity
96-00	+40 to severity

DAMAGE CONTROL	
ROLL	EFECT ON FIRE
01-05	Fire extinguished
06-15	-30 from severity
16-45	-20 from severity
46-75	-10 from severity
76-90	No change
91-00	+10 to severity

Matsu

DE JAPAN 1944 to 1944

1872-0 MATSU Class

Displacement	1,262 ts	*Length*	322 ft	Maizuru Navy Yard	
Complement		*Beam*	31 ft	*Launched*	02/03/1944
Sunk 08/04/1944		*Draft*	10.8 ft	*Completed*	04/29/1944

SEEKRIEG 5

SHIP LOG SHEET

Version 2/16/2009

3 x 12.7cm/40 Type 89 | 13

Max ROF	Range	Shell Size/Weight
12.0 sh/min	16,185 yds 32.4"	5.0" 51.7 lbs.

Fire Control			FC Radar	+ 0	AP	SAP
1		1D3	None		COM	HE

AA	2.7	Level	V	Ammunition	300 rpg	900

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	26	18	21	14	17	12	16	11
10 - 18	23	16	18	13	15	11	14	9
19 - 27	21	15	17	12	14	10	13	9
28 - 36	20	14	16	11	13	9	12	8
37 - 45	19	13	15	10	13	9	11	8

HE — PENETRATION TABLE

Yds	2,000	4,000	6,000	8,000	10,000	12,000	15,000	18,000	21,000	24,000	27,000	30,000	33,000	36,000
ROF	7.6	6.2	5.0	4.0	3.3	2.7	2.0	1.6						
Rge	S	S	M	M	L	L	E	E						
H	0.1	0.2	0.3	0.4	0.5	0.8	1.4	1.8						
V	3.9	2.8	2.1	1.7	1.3	1.2	1.1	1.3						

Crew	Sea	BR	Targ Sz	Ops
			0	

AIRCRAFT

Aircraft	0			Catapult	0	

TORPEDOES

TT	4	Ammo	8

61cm Type 93 M1-2

Damage Class	A

Settings

22,000/48

35,000/40

43,700/36

MINES

RAPID FIRE BATTERIES

RF1	24	25mm/60 Type 96			
Max Rg	7,440	14.9"	9	7	
Eff Rg	3,348	6.7"	13	10	

RF						
5	Port	12	10	7	4	2
	Stbd	12	10	7	4	2
AA	Port	49	39	27	16	7
M	Stbd	49	39	27	16	7

RF2		None			
Max Rg					
Eff Rg					

RF						
0	Port					
	Stbd					
AA	Port					
	Stbd					

RF3		None			
Max Rg					
Eff Rg					

RF						
	Port					
	Stbd					
AA	Port					
	Stbd					

Captain	

T#	BTTY	TARGET SHIP	SHELL	FCS	BR	H	RANGE	R	#RNDS	HITS

Coal (ts)	0	Oil (ts)	
Engines	Kampon GT		
Boilers	2 Kampon		

Radius (nm/kts)	
4680	16

Search Radar
No.22 M4
No.13 Type 3 M1

ASW MORTARS/ATW			DEPTH CHARGES			
2 Y-Guns			Rack	2		
None			Ammo	36		

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Matsu

TIER	DP
1/70	65
2/80	129
3/75	194
4/85	258
5/80	323
6/90	381
7/85	439
8/95	497
9/90	555
10	613
10	651

DP	645
KTS	27

Engine Rm	2	27	16	0	0	0	0
Prop/Shaft	2	27	14	0	0	0	0
Boiler Rm	2	27	17	0	0	0	0
			0	0	0	0	0

Standard Turn	
90	
Emergency Turn	
120	

Target Sz	
0	
Searchlights	
Port	Stbd

Speed	00-09 kt	10-16 kt	17-20 kt	21-23 kt	24+ kt	
Increase	10.0	7.0	4.0	3.0	1.0	

Crew

Bridge Command Rating				

Flag Command Rating				

Damage Control (DCR)				
2				

Fuel Code	

ARMOR	1.00	Actual
1H DECK	0.0	0.0
2H TURRET	0.0	0.0
3H SUPERSTR	0.0	0.0
4V CON	0.0	0.0
5V BELT MID	0.0	0.0
6V BELT END	0.0	0.0
7V BARBETTE	0.0	0.0
8V TURRET	0.0	0.0
9V SUPERSTR	0.0	0.0

T#	DE #	SEVERITY	DESCRIPTION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	CODE	ORDER
																				AF	Obey signals from Flagship
																				AI	Independent Action
																				AX	Battle Stations!
																				AA	Abandon ship!
																				AZ	Strike colors
COURSE AND SPEED																					
																				CA	Midships steady
																				CP #	Alter course to PORT
																				CS #	Alter course to STARBOARD
																				SF	Ahead full
																				SR#	Revolutions for # knots
																				SA	Full astern
																				SS	All stop
ILLUMINATION AND EVASION																					
																				EX	Evasive action
																				KX	Lay smoke
																				IS ##	Illuminate using starshell
																				IL #	Illuminate using searchlight
TORPEDO AND AIRCRAFT																					
																				TR (X)	Prepare to launch torpedoes to (X)
																				TL (X)	Launch torpedoes to (X)
																				VL	Prepare to launch aircraft
																				VX	Launch aircraft
PRIMARY BATTERY																					
																				B1D	Directed fire as range permits
																				B1V	Coordinated fire
																				B1L	Local control as range permits
																				B1P	Split fire
																				B1C	Change target
																				B1B	Barrage fire as range permits
RF BATTERY																					
																				R5B	Barrage fire as range permits
																				R6B	Barrage fire as range permits
																				R7B	Barrage fire as range permits

LOSS OF SPEED DURING TURNS

KTS	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
STD	3.0	4.5	6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5	18.0	19.5	21.0	22.5	24.0	25.5	27.0	28.5	30.0
E/EA	NA	NA	NA	NA	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0	20.0

TURNING SEGMENTS

DEG OF TURN	SEGMENTS
TO 15	2 Segments*
16 TO 45	2 Segments
46 TO 90	3 Segments
91 TO 135	4 Segments
136 TO 180	5 Segments

SHIPBOARD FIRE TRACKING

T#	Fire	Current Severity					T#	Fire	Current Severity				

FIGHTING SHIPBOARD FIRES

NO DAMAGE CONTROL	
ROLL	EFECT ON FIRE
01-03	-20 from severity
04-12	-10 from severity
13-50	No change
51-85	+10 to severity
86-95	+30 to severity
96-00	+40 to severity

DAMAGE CONTROL	
ROLL	EFECT ON FIRE
01-05	Fire extinguished
06-15	-30 from severity
16-45	-20 from severity
46-75	-10 from severity
76-90	No change
91-00	+10 to severity

Momi

DE JAPAN 1944 to 1945

1882-0 MATSU Class

Displacement	1,262 ts	*Length*	322 ft	Yokosuka Navy Yard	
Complement		*Beam*	31 ft	*Launched*	06/16/1944
Sunk 01/05/1945		*Draft*	10.8 ft	*Completed*	09/03/1944

SEEKRIEG 5

SHIP LOG SHEET

Version 2/16/2009

3 x 12.7cm/40 Type 89 | 13

Max ROF	Range	Shell Size/Weight
12.0 sh/min	16,185 yds 32.4"	5.0" 51.7 lbs.

Fire Control			FC Radar	+ 0	AP	SAP
1		1D3	None		COM	HE

AA	2.7	Level	V	Ammunition	300 rpg	900

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	26	18	21	14	17	12	16	11
10 - 18	23	16	18	13	15	11	14	9
19 - 27	21	15	17	12	14	10	13	9
28 - 36	20	14	16	11	13	9	12	8
37 - 45	19	13	15	10	13	9	11	8

HE — PENETRATION TABLE

Yds	2,000	4,000	6,000	8,000	10,000	12,000	15,000	18,000	21,000	24,000	27,000	30,000	33,000	36,000
ROF	7.6	6.2	5.0	4.0	3.3	2.7	2.0	1.6						
Rge	S	S	M	M	L	L	E	E						
H	0.1	0.2	0.3	0.4	0.5	0.8	1.4	1.8						
V	3.9	2.8	2.1	1.7	1.3	1.2	1.1	1.3						

Crew	Sea	BR	Targ Sz	Ops
			0	

AIRCRAFT

Aircraft	0			Catapult	0	

TORPEDOES

TT	4	Ammo	8

61cm Type 93 M1-2

Damage Class	A

Settings

22,000/48

35,000/40

43,700/36

MINES

RAPID FIRE BATTERIES

RF1	24	25mm/60 Type 96				
Max Rg	7,440	14.9"	9	7		
Eff Rg	3,348	6.7"	13	10		

RF						
5	Port	12	10	7	4	2
	Stbd	12	10	7	4	2
AA	Port	49	39	27	16	7
M	Stbd	49	39	27	16	7

RF2		None				
Max Rg						
Eff Rg						

RF						
0	Port					
	Stbd					
AA	Port					
	Stbd					

RF3		None				
Max Rg						
Eff Rg						

RF						
	Port					
	Stbd					
AA	Port					
	Stbd					

Captain	

T#	BTTY	TARGET SHIP	SHELL	FCS	BR	H	RANGE	R	#RNDS	HITS

Coal (ts)	0	Oil (ts)	
Engines	Kampon GT		
Boilers	2 Kampon		

Radius (nm/kts)	
4680	16

Search Radar
No.22 M4
No.13 Type 3 M1

ASW MORTARS/ATW			DEPTH CHARGES			
2 Y-Guns			Rack	2		
None			Ammo	36		

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Momi

TIER	DP
1/70	65
2/80	129
3/75	194
4/85	258
5/80	323
6/90	381
7/85	439
8/95	497
9/90	555
10	613
10	651

DP	645
KTS	27

Engine Rm	2	27	16	0	0	0	0
Prop/Shaft	2	27	14	0	0	0	0
Boiler Rm	2	27	17	0	0	0	0
			0	0	0	0	0

Standard Turn	
90	
Emergency Turn	
120	

Target Sz	
0	
Searchlights	
Port	Stbd

Speed	00-09 kt	10-16 kt	17-20 kt	21-23 kt	24+ kt	
Increase	10.0	7.0	4.0	3.0	1.0	

Crew

Bridge Command Rating	Flag Command Rating	Damage Control (DCR)
		2

Fuel Code	

ARMOR	1.00	Actual
1H DECK	0.0	0.0
2H TURRET	0.0	0.0
3H SUPERSTR	0.0	0.0
4V CON	0.0	0.0
5V BELT MID	0.0	0.0
6V BELT END	0.0	0.0
7V BARBETTE	0.0	0.0
8V TURRET	0.0	0.0
9V SUPERSTR	0.0	0.0

T#	DE #	SEVERITY	DESCRIPTION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	CODE	ORDER
																				AF	Obey signals from Flagship
																				AI	Independent Action
																				AX	Battle Stations!
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																				AZ	Strike colors
COURSE AND SPEED																					
																				CA	Midships steady
																				CP #	Alter course to PORT
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																				IS ##	Illuminate using starshell
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RF BATTERY																					
																				R5B	Barrage fire as range permits
																				R6B	Barrage fire as range permits
																				R7B	Barrage fire as range permits

LOSS OF SPEED DURING TURNS

KTS	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
STD	3.0	4.5	6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5	18.0	19.5	21.0	22.5	24.0	25.5	27.0	28.5	30.0
E/EA	NA	NA	NA	NA	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0	20.0

TURNING SEGMENTS

DEG OF TURN	SEGMENTS
TO 15	2 Segments*
16 TO 45	2 Segments
46 TO 90	3 Segments
91 TO 135	4 Segments
136 TO 180	5 Segments

SHIPBOARD FIRE TRACKING

T#	Fire	Current Severity					T#	Fire	Current Severity				

FIGHTING SHIPBOARD FIRES

NO DAMAGE CONTROL	
ROLL	EFECT ON FIRE
01-03	-20 from severity
04-12	-10 from severity
13-50	No change
51-85	+10 to severity
86-95	+30 to severity
96-00	+40 to severity

DAMAGE CONTROL	
ROLL	EFECT ON FIRE
01-05	Fire extinguished
06-15	-30 from severity
16-45	-20 from severity
46-75	-10 from severity
76-90	No change
91-00	+10 to severity

Momo

DE JAPAN 1944 to 1944

8152-0 MATSU Class

Displacement	1,262 ts	*Length*	322 ft	Maizuru Navy Yard	
Complement		*Beam*	31 ft	*Launched*	03/25/1944
Sunk 12/15/1944		*Draft*	10.8 ft	*Completed*	06/10/1944

SEEKRIEG 5

SHIP LOG SHEET

Version 2/16/2009

3 x 12.7cm/40 Type 89 | 13

Max ROF	Range	Shell Size/Weight
12.0 sh/min	16,185 yds 32.4"	5.0" 51.7 lbs.

Fire Control			FC Radar	+ 0	AP	SAP
1		1D3	None		COM	HE

AA	2.7	Level	V	Ammunition	300 rpg	900

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	26	18	21	14	17	12	16	11
10 - 18	23	16	18	13	15	11	14	9
19 - 27	21	15	17	12	14	10	13	9
28 - 36	20	14	16	11	13	9	12	8
37 - 45	19	13	15	10	13	9	11	8

HE — PENETRATION TABLE

Yds	2,000	4,000	6,000	8,000	10,000	12,000	15,000	18,000	21,000	24,000	27,000	30,000	33,000	36,000
ROF	7.6	6.2	5.0	4.0	3.3	2.7	2.0	1.6						
Rge	S	S	M	M	L	L	E	E						
H	0.1	0.2	0.3	0.4	0.5	0.8	1.4	1.8						
V	3.9	2.8	2.1	1.7	1.3	1.2	1.1	1.3						

Crew	Sea	BR	Targ Sz	Ops
			0	

AIRCRAFT

Aircraft	0			Catapult	0	

TORPEDOES

TT	4	Ammo	8

61cm Type 93 M1-2

Damage Class	A

Settings

22,000/48

35,000/40

43,700/36

MINES

RAPID FIRE BATTERIES

RF1	24	25mm/60 Type 96			
Max Rg	7,440	14.9"	9	7	
Eff Rg	3,348	6.7"	13	10	

RF						
5	Port	12	10	7	4	2
	Stbd	12	10	7	4	2
AA	Port	49	39	27	16	7
M	Stbd	49	39	27	16	7

RF2		None			
Max Rg					
Eff Rg					

RF						
0	Port					
	Stbd					
AA	Port					
	Stbd					

RF3		None			
Max Rg					
Eff Rg					

RF						
	Port					
	Stbd					
AA	Port					
	Stbd					

Captain	

T#	BTTY	TARGET SHIP	SHELL	FCS	BR	H	RANGE	R	#RNDS	HITS

Coal (ts)	0	Oil (ts)	
Engines	Kampon GT		
Boilers	2 Kampon		

Radius (nm/kts)	
4680	16

Search Radar
No.22 M4
No.13 Type 3 M1

ASW MORTARS/ATW			DEPTH CHARGES			
2 Y-Guns			Rack	2		
None			Ammo	36		

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Momo

TIER	DP
1/70	65
2/80	129
3/75	194
4/85	258
5/80	323
6/90	381
7/85	439
8/95	497
9/90	555
10	613
10	651

DP	645
KTS	27

Engine Rm	2	27	16	0	0	0	0
Prop/Shaft	2	27	14	0	0	0	0
Boiler Rm	2	27	17	0	0	0	0
			0	0	0	0	0

Standard Turn	
90	
Emergency Turn	
120	

Target Sz	
0	
Searchlights	
Port	Stbd

Speed	00-09 kt	10-16 kt	17-20 kt	21-23 kt	24+ kt	
Increase	10.0	7.0	4.0	3.0	1.0	

Crew

Bridge Command Rating				

Flag Command Rating				

Damage Control (DCR)				
2				

Fuel Code	

ARMOR	1.00	Actual
1H DECK	0.0	0.0
2H TURRET	0.0	0.0
3H SUPERSTR	0.0	0.0
4V CON	0.0	0.0
5V BELT MID	0.0	0.0
6V BELT END	0.0	0.0
7V BARBETTE	0.0	0.0
8V TURRET	0.0	0.0
9V SUPERSTR	0.0	0.0

T#	DE #	SEVERITY	DESCRIPTION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	CODE	ORDER
																				AF	Obey signals from Flagship
																				AI	Independent Action
																				AX	Battle Stations!
																				AA	Abandon ship!
																				AZ	Strike colors
COURSE AND SPEED																					
																				CA	Midships steady
																				CP #	Alter course to PORT
																				CS #	Alter course to STARBOARD
																				SF	Ahead full
																				SR#	Revolutions for # knots
																				SA	Full astern
																				SS	All stop
ILLUMINATION AND EVASION																					
																				EX	Evasive action
																				KX	Lay smoke
																				IS ##	Illuminate using starshell
																				IL #	Illuminate using searchlight
TORPEDO AND AIRCRAFT																					
																				TR (X)	Prepare to launch torpedoes to (X)
																				TL (X)	Launch torpedoes to (X)
																				VL	Prepare to launch aircraft
																				VX	Launch aircraft
PRIMARY BATTERY																					
																				B1D	Directed fire as range permits
																				B1V	Coordinated fire
																				B1L	Local control as range permits
																				B1P	Split fire
																				B1C	Change target
																				B1B	Barrage fire as range permits
RF BATTERY																					
																				R5B	Barrage fire as range permits
																				R6B	Barrage fire as range permits
																				R7B	Barrage fire as range permits

LOSS OF SPEED DURING TURNS

KTS	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
STD	3.0	4.5	6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5	18.0	19.5	21.0	22.5	24.0	25.5	27.0	28.5	30.0
E/EA	NA	NA	NA	NA	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0	20.0

TURNING SEGMENTS

DEG OF TURN	SEGMENTS
TO 15	2 Segments*
16 TO 45	2 Segments
46 TO 90	3 Segments
91 TO 135	4 Segments
136 TO 180	5 Segments

SHIPBOARD FIRE TRACKING

T#	Fire	Current Severity					T#	Fire	Current Severity				

FIGHTING SHIPBOARD FIRES

NO DAMAGE CONTROL	
ROLL	EFECT ON FIRE
01-03	-20 from severity
04-12	-10 from severity
13-50	No change
51-85	+10 to severity
86-95	+30 to severity
96-00	+40 to severity

DAMAGE CONTROL	
ROLL	EFECT ON FIRE
01-05	Fire extinguished
06-15	-30 from severity
16-45	-20 from severity
46-75	-10 from severity
76-90	No change
91-00	+10 to severity

Nara

DE JAPAN 1944 to 1945

1876-0 MATSU Class

Displacement	1,262 ts	*Length*	322 ft	Fujinagata, Osaka	
Complement		*Beam*	31 ft	*Launched*	10/12/1944
Scrapped 1948		*Draft*	10.8 ft	*Completed*	11/26/1944

SEEKRIEG 5

SHIP LOG SHEET

Version 2/16/2009

3 x 12.7cm/40 Type 89 — 13

Max ROF	Range	Shell Size/Weight
12.0 sh/min	16,185 yds 32.4"	5.0" 51.7 lbs.

Fire Control	FC Radar	
1 1D3	None	+ 0

AP	SAP
COM	HE

AA	2.7	Level	V	Ammunition	300 rpg	900

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	26	18	21	14	17	12	16	11
10 - 18	23	16	18	13	15	11	14	9
19 - 27	21	15	17	12	14	10	13	9
28 - 36	20	14	16	11	13	9	12	8
37 - 45	19	13	15	10	13	9	11	8

HE — PENETRATION TABLE

Yds	2,000	4,000	6,000	8,000	10,000	12,000	15,000	18,000	21,000	24,000	27,000	30,000	33,000	36,000
ROF	7.6	6.2	5.0	4.0	3.3	2.7	2.0	1.6						
Rge	S	S	M	M	L	L	E	E						
H	0.1	0.2	0.3	0.4	0.5	0.8	1.4	1.8						
V	3.9	2.8	2.1	1.7	1.3	1.2	1.1	1.3						

Crew	Sea	BR	Targ Sz	Ops
			0	

AIRCRAFT

Aircraft	0			Catapult	0	

TORPEDOES

TT	4	Ammo	8

61cm Type 93 M1-2

Damage Class	A

Settings

22,000/48

35,000/40

43,700/36

MINES

RAPID FIRE BATTERIES

RF1	24	25mm/60 Type 96			
Max Rg	7,440	14.9"	9	7	
Eff Rg	3,348	6.7"	13	10	

RF						
5	Port	12	10	7	4	2
	Stbd	12	10	7	4	2
AA	Port	49	39	27	16	7
M	Stbd	49	39	27	16	7

RF2		None			
Max Rg					
Eff Rg					

RF						
0	Port					
	Stbd					
AA	Port					
	Stbd					

RF3		None			
Max Rg					
Eff Rg					

RF						
	Port					
	Stbd					
AA	Port					
	Stbd					

Captain	

T#	BTTY	TARGET SHIP	SHELL	FCS	BR	H	RANGE	R	#RNDS	HITS

Coal (ts)	0	Oil (ts)	
Engines	Kampon GT		
Boilers	2 Kampon		

Radius (nm/kts)	
4680	16

Search Radar
No.22 M4
No.13 Type 3 M1

ASW MORTARS/ATW		
2 Y-Guns		
None		

DEPTH CHARGES			
Rack	2		
Ammo	36		

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Nara

TIER	DP
1/70	65
2/80	129
3/75	194
4/85	258
5/80	323
6/90	381
7/85	439
8/95	497
9/90	555
10	613
10	651

DP	645
KTS	27

Engine Rm	2	27	16	0	0	0	0
Prop/Shaft	2	27	14	0	0	0	0
Boiler Rm	2	27	17	0	0	0	0
			0	0	0	0	0

Standard Turn	
90	
Emergency Turn	
120	

Target Sz	
0	
Searchlights	
Port	Stbd

Speed	00-09 kt	10-16 kt	17-20 kt	21-23 kt	24+ kt	
Increase	10.0	7.0	4.0	3.0	1.0	

Crew

Bridge Command Rating				

Flag Command Rating				

Damage Control (DCR)				
2				

Fuel Code	

ARMOR	1.00	Actual
1H DECK	0.0	0.0
2H TURRET	0.0	0.0
3H SUPERSTR	0.0	0.0
4V CON	0.0	0.0
5V BELT MID	0.0	0.0
6V BELT END	0.0	0.0
7V BARBETTE	0.0	0.0
8V TURRET	0.0	0.0
9V SUPERSTR	0.0	0.0

T#	DE #	SEVERITY	DESCRIPTION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	CODE	ORDER
																				AF	Obey signals from Flagship
																				AI	Independent Action
																				AX	Battle Stations!
																				AA	Abandon ship!
																				AZ	Strike colors
COURSE AND SPEED																					
																				CA	Midships steady
																				CP #	Alter course to PORT
																				CS #	Alter course to STARBOARD
																				SF	Ahead full
																				SR#	Revolutions for # knots
																				SA	Full astern
																				SS	All stop
ILLUMINATION AND EVASION																					
																				EX	Evasive action
																				KX	Lay smoke
																				IS ##	Illuminate using starshell
																				IL #	Illuminate using searchlight
TORPEDO AND AIRCRAFT																					
																				TR (X)	Prepare to launch torpedoes to (X)
																				TL (X)	Launch torpedoes to (X)
																				VL	Prepare to launch aircraft
																				VX	Launch aircraft
PRIMARY BATTERY																					
																				B1D	Directed fire as range permits
																				B1V	Coordinated fire
																				B1L	Local control as range permits
																				B1P	Split fire
																				B1C	Change target
																				B1B	Barrage fire as range permits
RF BATTERY																					
																				R5B	Barrage fire as range permits
																				R6B	Barrage fire as range permits
																				R7B	Barrage fire as range permits

LOSS OF SPEED DURING TURNS

KTS	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
STD	3.0	4.5	6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5	18.0	19.5	21.0	22.5	24.0	25.5	27.0	28.5	30.0
E/EA	NA	NA	NA	NA	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0	20.0

TURNING SEGMENTS

DEG OF TURN	SEGMENTS
TO 15	2 Segments*
16 TO 45	2 Segments
46 TO 90	3 Segments
91 TO 135	4 Segments
136 TO 180	5 Segments

SHIPBOARD FIRE TRACKING

T#	Fire	Current Severity					T#	Fire	Current Severity				

FIGHTING SHIPBOARD FIRES

NO DAMAGE CONTROL	
ROLL	EFECT ON FIRE
01-03	-20 from severity
04-12	-10 from severity
13-50	No change
51-85	+10 to severity
86-95	+30 to severity
96-00	+40 to severity

DAMAGE CONTROL	
ROLL	EFECT ON FIRE
01-05	Fire extinguished
06-15	-30 from severity
16-45	-20 from severity
46-75	-10 from severity
76-90	No change
91-00	+10 to severity

Sakura

DE JAPAN 1944 to 1945

1871-0 MATSU Class

Displacement	1,262 ts	*Length*	322 ft	Yokosuka Navy Yard	
Complement		*Beam*	31 ft	*Launched*	09/06/1944
Sunk 07/11/1945		*Draft*	10.8 ft	*Completed*	11/25/1944

SEEKRIEG 5

SHIP LOG SHEET

Version 2/16/2009

3 x 12.7cm/40 Type 89 | 13

Max ROF	Range	Shell Size/Weight
12.0 sh/min	16,185 yds 32.4"	5.0" 51.7 lbs.

Fire Control			FC Radar	+ 0	AP	SAP
1		1D3	None		COM	HE

AA	2.7	Level	V	Ammunition	300 rpg	900

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	26	18	21	14	17	12	16	11
10 - 18	23	16	18	13	15	11	14	9
19 - 27	21	15	17	12	14	10	13	9
28 - 36	20	14	16	11	13	9	12	8
37 - 45	19	13	15	10	13	9	11	8

HE — PENETRATION TABLE

Yds	2,000	4,000	6,000	8,000	10,000	12,000	15,000	18,000	21,000	24,000	27,000	30,000	33,000	36,000
ROF	7.6	6.2	5.0	4.0	3.3	2.7	2.0	1.6						
Rge	S	S	M	M	L	L	E	E						
H	0.1	0.2	0.3	0.4	0.5	0.8	1.4	1.8						
V	3.9	2.8	2.1	1.7	1.3	1.2	1.1	1.3						

Crew	Sea	BR	Targ Sz	Ops
			0	

AIRCRAFT

Aircraft	0			Catapult	0	

TORPEDOES

TT	4	Ammo	8

61cm Type 93 M1-2

Damage Class	A

Settings

22,000/48

35,000/40

43,700/36

MINES

RAPID FIRE BATTERIES

RF1	24	25mm/60 Type 96				
Max Rg	7,440	14.9"	9	7		
Eff Rg	3,348	6.7"	13	10		

RF						
5	Port	12	10	7	4	2
	Stbd	12	10	7	4	2
AA	Port	49	39	27	16	7
M	Stbd	49	39	27	16	7

RF2		None				
Max Rg						
Eff Rg						

RF						
0	Port					
	Stbd					
AA	Port					
	Stbd					

RF3		None				
Max Rg						
Eff Rg						

RF						
	Port					
	Stbd					
AA	Port					
	Stbd					

Captain	

T#	BTTY	TARGET SHIP	SHELL	FCS	BR	H	RANGE	R	#RNDS	HITS

Coal (ts)	0	Oil (ts)	
Engines	Kampon GT		
Boilers	2 Kampon		

Radius (nm/kts)	
4680	16

Search Radar
No.22 M4
No.13 Type 3 M1

ASW MORTARS/ATW			DEPTH CHARGES			
2 Y-Guns			Rack	2		
None			Ammo	36		

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Sakura

TIER	DP
1/70	65
2/80	129
3/75	194
4/85	258
5/80	323
6/90	381
7/85	439
8/95	497
9/90	555
10	613
10	651

DP	645
KTS	27

Engine Rm	2	27	16	0	0	0	0
Prop/Shaft	2	27	14	0	0	0	0
Boiler Rm	2	27	17	0	0	0	0
			0	0	0	0	0

Standard Turn	
90	
Emergency Turn	
120	

Target Sz	
0	
Searchlights	
Port	Stbd

Speed	00-09 kt	10-16 kt	17-20 kt	21-23 kt	24+ kt	
Increase	10.0	7.0	4.0	3.0	1.0	

Crew

Bridge Command Rating				

Flag Command Rating				

Damage Control (DCR)				
2				

Fuel Code	

ARMOR	1.00	Actual
1H DECK	0.0	0.0
2H TURRET	0.0	0.0
3H SUPERSTR	0.0	0.0
4V CON	0.0	0.0
5V BELT MID	0.0	0.0
6V BELT END	0.0	0.0
7V BARBETTE	0.0	0.0
8V TURRET	0.0	0.0
9V SUPERSTR	0.0	0.0

T#	DE #	SEVERITY	DESCRIPTION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	CODE	ORDER
																				AF	Obey signals from Flagship
																				AI	Independent Action
																				AX	Battle Stations!
																				AA	Abandon ship!
																				AZ	Strike colors
COURSE AND SPEED																					
																				CA	Midships steady
																				CP #	Alter course to PORT
																				CS #	Alter course to STARBOARD
																				SF	Ahead full
																				SR#	Revolutions for # knots
																				SA	Full astern
																				SS	All stop
ILLUMINATION AND EVASION																					
																				EX	Evasive action
																				KX	Lay smoke
																				IS ##	Illuminate using starshell
																				IL #	Illuminate using searchlight
TORPEDO AND AIRCRAFT																					
																				TR (X)	Prepare to launch torpedoes to (X)
																				TL (X)	Launch torpedoes to (X)
																				VL	Prepare to launch aircraft
																				VX	Launch aircraft
PRIMARY BATTERY																					
																				B1D	Directed fire as range permits
																				B1V	Coordinated fire
																				B1L	Local control as range permits
																				B1P	Split fire
																				B1C	Change target
																				B1B	Barrage fire as range permits
RF BATTERY																					
																				R5B	Barrage fire as range permits
																				R6B	Barrage fire as range permits
																				R7B	Barrage fire as range permits

LOSS OF SPEED DURING TURNS

KTS	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
STD	3.0	4.5	6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5	18.0	19.5	21.0	22.5	24.0	25.5	27.0	28.5	30.0
E/EA	NA	NA	NA	NA	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0	20.0

TURNING SEGMENTS

DEG OF TURN	SEGMENTS
TO 15	2 Segments*
16 TO 45	2 Segments
46 TO 90	3 Segments
91 TO 135	4 Segments
136 TO 180	5 Segments

SHIPBOARD FIRE TRACKING

T#	Fire	Current Severity					T#	Fire	Current Severity				

FIGHTING SHIPBOARD FIRES

NO DAMAGE CONTROL	
ROLL	EFECT ON FIRE
01-03	-20 from severity
04-12	-10 from severity
13-50	No change
51-85	+10 to severity
86-95	+30 to severity
96-00	+40 to severity

DAMAGE CONTROL	
ROLL	EFECT ON FIRE
01-05	Fire extinguished
06-15	-30 from severity
16-45	-20 from severity
46-75	-10 from severity
76-90	No change
91-00	+10 to severity

Sugi

DE JAPAN 1944 to 1945

1874-0 MATSU Class

Displacement	1,262 ts	*Length*	322 ft	Fujinagata, Osaka	
Complement		*Beam*	31 ft	*Launched*	07/03/1944
To China 1947		*Draft*	10.8 ft	*Completed*	08/25/1944

SEEKRIEG 5

SHIP LOG SHEET

Version 2/16/2009

3 x 12.7cm/40 Type 89 | 13

Max ROF	Range	Shell Size/Weight
12.0 sh/min	16,185 yds 32.4"	5.0" 51.7 lbs.

Fire Control	FC Radar	
1 1D3	None	+ 0

AP	SAP
COM	HE

AA	2.7	Level	V	Ammunition	300 rpg	900

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	26	18	21	14	17	12	16	11
10 - 18	23	16	18	13	15	11	14	9
19 - 27	21	15	17	12	14	10	13	9
28 - 36	20	14	16	11	13	9	12	8
37 - 45	19	13	15	10	13	9	11	8

HE — PENETRATION TABLE

Yds	2,000	4,000	6,000	8,000	10,000	12,000	15,000	18,000	21,000	24,000	27,000	30,000	33,000	36,000
ROF	7.6	6.2	5.0	4.0	3.3	2.7	2.0	1.6						
Rge	S	S	M	M	L	L	E	E						
H	0.1	0.2	0.3	0.4	0.5	0.8	1.4	1.8						
V	3.9	2.8	2.1	1.7	1.3	1.2	1.1	1.3						

Crew	Sea	BR	Targ Sz	Ops
			0	

AIRCRAFT

Aircraft	0			Catapult	0	

TORPEDOES

TT	4	Ammo	8

61cm Type 93 M1-2

Damage Class	A

Settings

22,000/48

35,000/40

43,700/36

MINES

RAPID FIRE BATTERIES

RF1	24	25mm/60 Type 96			
Max Rg	7,440	14.9"	9	7	
Eff Rg	3,348	6.7"	13	10	

RF						
5	Port	12	10	7	4	2
	Stbd	12	10	7	4	2
AA	Port	49	39	27	16	7
M	Stbd	49	39	27	16	7

RF2		None			
Max Rg					
Eff Rg					

RF						
0	Port					
	Stbd					
AA	Port					
	Stbd					

RF3		None			
Max Rg					
Eff Rg					

RF						
	Port					
	Stbd					
AA	Port					
	Stbd					

Captain	

T#	BTTY	TARGET SHIP	SHELL	FCS	BR	H	RANGE	R	#RNDS	HITS

Coal (ts)	0	Oil (ts)	
Engines	Kampon GT		
Boilers	2 Kampon		

Radius (nm/kts)	
4680	16

Search Radar
No.22 M4
No.13 Type 3 M1

ASW MORTARS/ATW		
2 Y-Guns		
None		

DEPTH CHARGES			
Rack	2		
Ammo	36		

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Sugi

TIER	DP
1/70	65
2/80	129
3/75	194
4/85	258
5/80	323
6/90	381
7/85	439
8/95	497
9/90	555
10	613
10	651

DP	645
KTS	27

Engine Rm	2	27	16	0	0	0	0
Prop/Shaft	2	27	14	0	0	0	0
Boiler Rm	2	27	17	0	0	0	0
			0	0	0	0	0

Standard Turn	
90	
Emergency Turn	
120	

Target Sz	
0	
Searchlights	
Port	Stbd

Speed	00-09 kt	10-16 kt	17-20 kt	21-23 kt	24+ kt	
Increase	10.0	7.0	4.0	3.0	1.0	

Crew

Bridge Command Rating	Flag Command Rating	Damage Control (DCR)
		2

Fuel Code	

ARMOR	1.00	Actual
1H DECK	0.0	0.0
2H TURRET	0.0	0.0
3H SUPERSTR	0.0	0.0
4V CON	0.0	0.0
5V BELT MID	0.0	0.0
6V BELT END	0.0	0.0
7V BARBETTE	0.0	0.0
8V TURRET	0.0	0.0
9V SUPERSTR	0.0	0.0

T#	DE #	SEVERITY	DESCRIPTION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	CODE	ORDER
																				AF	Obey signals from Flagship
																				AI	Independent Action
																				AX	Battle Stations!
																				AA	Abandon ship!
																				AZ	Strike colors
COURSE AND SPEED																					
																				CA	Midships steady
																				CP #	Alter course to PORT
																				CS #	Alter course to STARBOARD
																				SF	Ahead full
																				SR#	Revolutions for # knots
																				SA	Full astern
																				SS	All stop
ILLUMINATION AND EVASION																					
																				EX	Evasive action
																				KX	Lay smoke
																				IS ##	Illuminate using starshell
																				IL #	Illuminate using searchlight
TORPEDO AND AIRCRAFT																					
																				TR (X)	Prepare to launch torpedoes to (X)
																				TL (X)	Launch torpedoes to (X)
																				VL	Prepare to launch aircraft
																				VX	Launch aircraft
PRIMARY BATTERY																					
																				B1D	Directed fire as range permits
																				B1V	Coordinated fire
																				B1L	Local control as range permits
																				B1P	Split fire
																				B1C	Change target
																				B1B	Barrage fire as range permits
RF BATTERY																					
																				R5B	Barrage fire as range permits
																				R6B	Barrage fire as range permits
																				R7B	Barrage fire as range permits

LOSS OF SPEED DURING TURNS

KTS	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
STD	3.0	4.5	6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5	18.0	19.5	21.0	22.5	24.0	25.5	27.0	28.5	30.0
E/EA	NA	NA	NA	NA	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0	20.0

TURNING SEGMENTS

DEG OF TURN	SEGMENTS
TO 15	2 Segments*
16 TO 45	2 Segments
46 TO 90	3 Segments
91 TO 135	4 Segments
136 TO 180	5 Segments

SHIPBOARD FIRE TRACKING

T#	Fire	Current Severity					T#	Fire	Current Severity				

FIGHTING SHIPBOARD FIRES

NO DAMAGE CONTROL	
ROLL	EFECT ON FIRE
01-03	-20 from severity
04-12	-10 from severity
13-50	No change
51-85	+10 to severity
86-95	+30 to severity
96-00	+40 to severity

DAMAGE CONTROL	
ROLL	EFECT ON FIRE
01-05	Fire extinguished
06-15	-30 from severity
16-45	-20 from severity
46-75	-10 from severity
76-90	No change
91-00	+10 to severity

Take

DE JAPAN 1944 to 1945

1873-0 MATSU Class

Displacement	1,262 ts	*Length*	322 ft	Yokosuka Navy Yard	
Complement		*Beam*	31 ft	*Launched*	03/28/1944
Scrapped 1947		*Draft*	10.8 ft	*Completed*	06/16/1944

SEEKRIEG 5

SHIP LOG SHEET

Version 2/16/2009

3 x 12.7cm/40 Type 89 | 13

Max ROF	Range	Shell Size/Weight
12.0 sh/min	16,185 yds 32.4"	5.0" 51.7 lbs.

Fire Control			FC Radar	+ 0	AP	SAP
1		1D3	None		COM	HE

AA	2.7	Level	V	Ammunition	300 rpg	900

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	26	18	21	14	17	12	16	11
10 - 18	23	16	18	13	15	11	14	9
19 - 27	21	15	17	12	14	10	13	9
28 - 36	20	14	16	11	13	9	12	8
37 - 45	19	13	15	10	13	9	11	8

HE — PENETRATION TABLE

Yds	2,000	4,000	6,000	8,000	10,000	12,000	15,000	18,000	21,000	24,000	27,000	30,000	33,000	36,000
ROF	7.6	6.2	5.0	4.0	3.3	2.7	2.0	1.6						
Rge	S	S	M	M	L	L	E	E						
H	0.1	0.2	0.3	0.4	0.5	0.8	1.4	1.8						
V	3.9	2.8	2.1	1.7	1.3	1.2	1.1	1.3						

Crew	Sea	BR	Targ Sz	Ops
			0	

AIRCRAFT

Aircraft	0			Catapult	0	

TORPEDOES

TT	4	Ammo	8

61cm Type 93 M1-2

Damage Class	A

Settings

22,000/48

35,000/40

43,700/36

MINES

RAPID FIRE BATTERIES

RF1	24	25mm/60 Type 96			
Max Rg	7,440	14.9"	9	7	
Eff Rg	3,348	6.7"	13	10	

RF						
5	Port	12	10	7	4	2
	Stbd	12	10	7	4	2
AA	Port	49	39	27	16	7
M	Stbd	49	39	27	16	7

RF2		None			
Max Rg					
Eff Rg					

RF						
0	Port					
	Stbd					
AA	Port					
	Stbd					

RF3		None			
Max Rg					
Eff Rg					

RF						
	Port					
	Stbd					
AA	Port					
	Stbd					

Captain

T#	BTTY	TARGET SHIP	SHELL	FCS	BR	H	RANGE	R	#RNDS	HITS

Coal (ts)	0	Oil (ts)	
Engines	Kampon GT		
Boilers	2 Kampon		

Radius (nm/kts)	
4680	16

Search Radar
No.22 M4
No.13 Type 3 M1

ASW MORTARS/ATW			DEPTH CHARGES			
2 Y-Guns			Rack	2		
None			Ammo	36		

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TIER	DP
1/70	65
2/80	129
3/75	194
4/85	258
5/80	323
6/90	381
7/85	439
8/95	497
9/90	555
10	613
10	651

DP	645
KTS	27

Engine Rm	2	27	16	0	0	0	0
Prop/Shaft	2	27	14	0	0	0	0
Boiler Rm	2	27	17	0	0	0	0
			0	0	0	0	0

Standard Turn	
90	
Emergency Turn	
120	

Target Sz	
0	
Searchlights	
Port	Stbd

Speed	00-09 kt	10-16 kt	17-20 kt	21-23 kt	24+ kt	
Increase	10.0	7.0	4.0	3.0	1.0	

Crew

Bridge Command Rating				

Flag Command Rating				

Damage Control (DCR)				
2				

Fuel Code	

ARMOR	1.00	Actual
1H DECK	0.0	0.0
2H TURRET	0.0	0.0
3H SUPERSTR	0.0	0.0
4V CON	0.0	0.0
5V BELT MID	0.0	0.0
6V BELT END	0.0	0.0
7V BARBETTE	0.0	0.0
8V TURRET	0.0	0.0
9V SUPERSTR	0.0	0.0

Take

T#	DE #	SEVERITY	DESCRIPTION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	CODE	ORDER
																				AF	Obey signals from Flagship
																				AI	Independent Action
																				AX	Battle Stations!
																				AA	Abandon ship!
																				AZ	Strike colors
COURSE AND SPEED																					
																				CA	Midships steady
																				CP #	Alter course to PORT
																				CS #	Alter course to STARBOARD
																				SF	Ahead full
																				SR#	Revolutions for # knots
																				SA	Full astern
																				SS	All stop
ILLUMINATION AND EVASION																					
																				EX	Evasive action
																				KX	Lay smoke
																				IS ##	Illuminate using starshell
																				IL #	Illuminate using searchlight
TORPEDO AND AIRCRAFT																					
																				TR (X)	Prepare to launch torpedoes to (X)
																				TL (X)	Launch torpedoes to (X)
																				VL	Prepare to launch aircraft
																				VX	Launch aircraft
PRIMARY BATTERY																					
																				B1D	Directed fire as range permits
																				B1V	Coordinated fire
																				B1L	Local control as range permits
																				B1P	Split fire
																				B1C	Change target
																				B1B	Barrage fire as range permits
RF BATTERY																					
																				R5B	Barrage fire as range permits
																				R6B	Barrage fire as range permits
																				R7B	Barrage fire as range permits

LOSS OF SPEED DURING TURNS

KTS	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
STD	3.0	4.5	6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5	18.0	19.5	21.0	22.5	24.0	25.5	27.0	28.5	30.0
E/EA	NA	NA	NA	NA	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0	20.0

TURNING SEGMENTS

DEG OF TURN	SEGMENTS
TO 15	2 Segments*
16 TO 45	2 Segments
46 TO 90	3 Segments
91 TO 135	4 Segments
136 TO 180	5 Segments

SHIPBOARD FIRE TRACKING

T#	Fire	Current Severity					T#	Fire	Current Severity				

FIGHTING SHIPBOARD FIRES

NO DAMAGE CONTROL	
ROLL	EFECT ON FIRE
01-03	-20 from severity
04-12	-10 from severity
13-50	No change
51-85	+10 to severity
86-95	+30 to severity
96-00	+40 to severity

DAMAGE CONTROL	
ROLL	EFECT ON FIRE
01-05	Fire extinguished
06-15	-30 from severity
16-45	-20 from severity
46-75	-10 from severity
76-90	No change
91-00	+10 to severity

Tsubaki

DE JAPAN 1944 to 1945

8159-0 MATSU Class

Displacement	1,262 ts	*Length*	322 ft	Maizuru Navy Yard	
Complement		*Beam*	31 ft	*Launched*	09/30/1944
Scrapped 1948		*Draft*	10.8 ft	*Completed*	11/30/1944

SEEKRIEG 5

SHIP LOG SHEET

Version 2/16/2009

3 x 12.7cm/40 Type 89 | 13

Max ROF	Range	Shell Size/Weight
12.0 sh/min	16,185 yds 32.4"	5.0" 51.7 lbs.

Fire Control			FC Radar	+ 0	AP	SAP
1		1D3	None		COM	HE

AA	2.7	Level	V	Ammunition	300 rpg	900

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	26	18	21	14	17	12	16	11
10 - 18	23	16	18	13	15	11	14	9
19 - 27	21	15	17	12	14	10	13	9
28 - 36	20	14	16	11	13	9	12	8
37 - 45	19	13	15	10	13	9	11	8

HE — PENETRATION TABLE

Yds	2,000	4,000	6,000	8,000	10,000	12,000	15,000	18,000	21,000	24,000	27,000	30,000	33,000	36,000
ROF	7.6	6.2	5.0	4.0	3.3	2.7	2.0	1.6						
Rge	S	S	M	M	L	L	E	E						
H	0.1	0.2	0.3	0.4	0.5	0.8	1.4	1.8						
V	3.9	2.8	2.1	1.7	1.3	1.2	1.1	1.3						

Crew	Sea	BR	Targ Sz	Ops
			0	

AIRCRAFT

Aircraft	0			Catapult	0	

TORPEDOES

TT	4	Ammo	8

61cm Type 93 M1-2

Damage Class	A

Settings

22,000/48

35,000/40

43,700/36

MINES

RAPID FIRE BATTERIES

RF1	24	25mm/60 Type 96			
Max Rg	7,440	14.9"	9	7	
Eff Rg	3,348	6.7"	13	10	

RF						
5	Port	12	10	7	4	2
	Stbd	12	10	7	4	2
AA	Port	49	39	27	16	7
M	Stbd	49	39	27	16	7

RF2		None			
Max Rg					
Eff Rg					

RF						
0	Port					
	Stbd					
AA	Port					
	Stbd					

RF3		None			
Max Rg					
Eff Rg					

RF						
	Port					
	Stbd					
AA	Port					
	Stbd					

Captain	

T#	BTTY	TARGET SHIP	SHELL	FCS	BR	H	RANGE	R	#RNDS	HITS

Coal (ts)	0	Oil (ts)	
Engines	Kampon GT		
Boilers	2 Kampon		

Radius (nm/kts)	
4680	16

Search Radar
No.22 M4
No.13 Type 3 M1

ASW MORTARS/ATW			DEPTH CHARGES			
2 Y-Guns			Rack	2		
None			Ammo	36		

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Tsubaki

TIER	DP
1/70	65
2/80	129
3/75	194
4/85	258
5/80	323
6/90	381
7/85	439
8/95	497
9/90	555
10	613
10	651

DP	645
KTS	27

Engine Rm	2	27	16	0	0	0	0
Prop/Shaft	2	27	14	0	0	0	0
Boiler Rm	2	27	17	0	0	0	0
			0	0	0	0	0

Standard Turn	
90	
Emergency Turn	
120	

Target Sz	
0	
Searchlights	
Port	Stbd

Speed	00-09 kt	10-16 kt	17-20 kt	21-23 kt	24+ kt	
Increase	10.0	7.0	4.0	3.0	1.0	

Crew

Bridge Command Rating	Flag Command Rating	Damage Control (DCR)
		2

Fuel Code	

ARMOR	1.00	Actual
1H DECK	0.0	0.0
2H TURRET	0.0	0.0
3H SUPERSTR	0.0	0.0
4V CON	0.0	0.0
5V BELT MID	0.0	0.0
6V BELT END	0.0	0.0
7V BARBETTE	0.0	0.0
8V TURRET	0.0	0.0
9V SUPERSTR	0.0	0.0

T#	DE #	SEVERITY	DESCRIPTION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	CODE	ORDER
																				AF	Obey signals from Flagship
																				AI	Independent Action
																				AX	Battle Stations!
																				AA	Abandon ship!
																				AZ	Strike colors
COURSE AND SPEED																					
																				CA	Midships steady
																				CP #	Alter course to PORT
																				CS #	Alter course to STARBOARD
																				SF	Ahead full
																				SR#	Revolutions for # knots
																				SA	Full astern
																				SS	All stop
ILLUMINATION AND EVASION																					
																				EX	Evasive action
																				KX	Lay smoke
																				IS ##	Illuminate using starshell
																				IL #	Illuminate using searchlight
TORPEDO AND AIRCRAFT																					
																				TR (X)	Prepare to launch torpedoes to (X)
																				TL (X)	Launch torpedoes to (X)
																				VL	Prepare to launch aircraft
																				VX	Launch aircraft
PRIMARY BATTERY																					
																				B1D	Directed fire as range permits
																				B1V	Coordinated fire
																				B1L	Local control as range permits
																				B1P	Split fire
																				B1C	Change target
																				B1B	Barrage fire as range permits
RF BATTERY																					
																				R5B	Barrage fire as range permits
																				R6B	Barrage fire as range permits
																				R7B	Barrage fire as range permits

LOSS OF SPEED DURING TURNS

KTS	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
STD	3.0	4.5	6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5	18.0	19.5	21.0	22.5	24.0	25.5	27.0	28.5	30.0
E/EA	NA	NA	NA	NA	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0	20.0

TURNING SEGMENTS

DEG OF TURN	SEGMENTS
TO 15	2 Segments*
16 TO 45	2 Segments
46 TO 90	3 Segments
91 TO 135	4 Segments
136 TO 180	5 Segments

SHIPBOARD FIRE TRACKING

T#	Fire	Current Severity					T#	Fire	Current Severity				

FIGHTING SHIPBOARD FIRES

NO DAMAGE CONTROL	
ROLL	EFECT ON FIRE
01-03	-20 from severity
04-12	-10 from severity
13-50	No change
51-85	+10 to severity
86-95	+30 to severity
96-00	+40 to severity

DAMAGE CONTROL	
ROLL	EFECT ON FIRE
01-05	Fire extinguished
06-15	-30 from severity
16-45	-20 from severity
46-75	-10 from severity
76-90	No change
91-00	+10 to severity

Ume

DE JAPAN 1944 to 1945

8153-0 MATSU Class

Displacement	1,262 ts	*Length*	322 ft	Fujinagata, Osaka	
Complement		*Beam*	31 ft	*Launched*	04/24/1944
Sunk 01/31/1945		*Draft*	10.8 ft	*Completed*	06/28/1944

SEEKRIEG 5

SHIP LOG SHEET

Version 2/16/2009

3 x 12.7cm/40 Type 89 — 13

Max ROF	Range	Shell Size/Weight
12.0 sh/min	16,185 yds 32.4"	5.0" 51.7 lbs.

Fire Control	FC Radar	
1 1D3	None	+ 0

AP	SAP
COM	HE

AA	2.7	Level	V	Ammunition	300 rpg	900

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	26	18	21	14	17	12	16	11
10 - 18	23	16	18	13	15	11	14	9
19 - 27	21	15	17	12	14	10	13	9
28 - 36	20	14	16	11	13	9	12	8
37 - 45	19	13	15	10	13	9	11	8

HE — PENETRATION TABLE

Yds	2,000	4,000	6,000	8,000	10,000	12,000	15,000	18,000	21,000	24,000	27,000	30,000	33,000	36,000
ROF	7.6	6.2	5.0	4.0	3.3	2.7	2.0	1.6						
Rge	S	S	M	M	L	L	E	E						
H	0.1	0.2	0.3	0.4	0.5	0.8	1.4	1.8						
V	3.9	2.8	2.1	1.7	1.3	1.2	1.1	1.3						

Crew	Sea	BR	Targ Sz	Ops
			0	

AIRCRAFT

Aircraft	0			Catapult	0	

TORPEDOES

TT	4	Ammo	8

61cm Type 93 M1-2

Damage Class	A

Settings

22,000/48

35,000/40

43,700/36

MINES

RAPID FIRE BATTERIES

RF1	24	25mm/60 Type 96			
Max Rg	7,440	14.9"	9	7	
Eff Rg	3,348	6.7"	13	10	

RF						
5	Port	12	10	7	4	2
	Stbd	12	10	7	4	2
AA	Port	49	39	27	16	7
M	Stbd	49	39	27	16	7

RF2		None			
Max Rg					
Eff Rg					

RF						
0	Port					
	Stbd					
AA	Port					
	Stbd					

RF3		None			
Max Rg					
Eff Rg					

RF						
	Port					
	Stbd					
AA	Port					
	Stbd					

Captain	

T#	BTTY	TARGET SHIP	SHELL	FCS	BR	H	RANGE	R	#RNDS	HITS

Coal (ts)	0	Oil (ts)	
Engines	Kampon GT		
Boilers	2 Kampon		

Radius (nm/kts)	
4680	16

Search Radar
No.22 M4
No.13 Type 3 M1

ASW MORTARS/ATW			DEPTH CHARGES			
2 Y-Guns			Rack	2		
None			Ammo	36		

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Ume

TIER	DP
1/70	65
2/80	129
3/75	194
4/85	258
5/80	323
6/90	381
7/85	439
8/95	497
9/90	555
10	613
10	651

DP	645
KTS	27

Engine Rm	2	27	16	0	0	0	0
Prop/Shaft	2	27	14	0	0	0	0
Boiler Rm	2	27	17	0	0	0	0
			0	0	0	0	0

Standard Turn	
90	
Emergency Turn	
120	

Target Sz	
0	
Searchlights	
Port	Stbd

Speed	00-09 kt	10-16 kt	17-20 kt	21-23 kt	24+ kt	
Increase	10.0	7.0	4.0	3.0	1.0	

Crew

Bridge Command Rating				

Flag Command Rating				

Damage Control (DCR)				
2				

Fuel Code	

ARMOR	1.00	Actual
1H DECK	0.0	0.0
2H TURRET	0.0	0.0
3H SUPERSTR	0.0	0.0
4V CON	0.0	0.0
5V BELT MID	0.0	0.0
6V BELT END	0.0	0.0
7V BARBETTE	0.0	0.0
8V TURRET	0.0	0.0
9V SUPERSTR	0.0	0.0

T#	DE #	SEVERITY	DESCRIPTION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	CODE	ORDER
																				AF	Obey signals from Flagship
																				AI	Independent Action
																				AX	Battle Stations!
																				AA	Abandon ship!
																				AZ	Strike colors
COURSE AND SPEED																					
																				CA	Midships steady
																				CP #	Alter course to PORT
																				CS #	Alter course to STARBOARD
																				SF	Ahead full
																				SR#	Revolutions for # knots
																				SA	Full astern
																				SS	All stop
ILLUMINATION AND EVASION																					
																				EX	Evasive action
																				KX	Lay smoke
																				IS ##	Illuminate using starshell
																				IL #	Illuminate using searchlight
TORPEDO AND AIRCRAFT																					
																				TR (X)	Prepare to launch torpedoes to (X)
																				TL (X)	Launch torpedoes to (X)
																				VL	Prepare to launch aircraft
																				VX	Launch aircraft
PRIMARY BATTERY																					
																				B1D	Directed fire as range permits
																				B1V	Coordinated fire
																				B1L	Local control as range permits
																				B1P	Split fire
																				B1C	Change target
																				B1B	Barrage fire as range permits
RF BATTERY																					
																				R5B	Barrage fire as range permits
																				R6B	Barrage fire as range permits
																				R7B	Barrage fire as range permits

LOSS OF SPEED DURING TURNS

KTS	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
STD	3.0	4.5	6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5	18.0	19.5	21.0	22.5	24.0	25.5	27.0	28.5	30.0
E/EA	NA	NA	NA	NA	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0	20.0

TURNING SEGMENTS

DEG OF TURN	SEGMENTS
TO 15	2 Segments*
16 TO 45	2 Segments
46 TO 90	3 Segments
91 TO 135	4 Segments
136 TO 180	5 Segments

SHIPBOARD FIRE TRACKING

T#	Fire	Current Severity					T#	Fire	Current Severity				

FIGHTING SHIPBOARD FIRES

NO DAMAGE CONTROL	
ROLL	EFECT ON FIRE
01-03	-20 from severity
04-12	-10 from severity
13-50	No change
51-85	+10 to severity
86-95	+30 to severity
96-00	+40 to severity

DAMAGE CONTROL	
ROLL	EFECT ON FIRE
01-05	Fire extinguished
06-15	-30 from severity
16-45	-20 from severity
46-75	-10 from severity
76-90	No change
91-00	+10 to severity

Yunagi

DE JAPAN 1945 to 1945

1877-0 MATSU Class

Displacement	1,262 ts	*Length*	322 ft	Fujinagata, Osaka	
Complement		*Beam*	31 ft	*Launched*	11/25/1945
Scrapped 1947		*Draft*	10.8 ft	*Completed*	01/08/1945

SEEKRIEG 5

SHIP LOG SHEET

Version 2/16/2009

3 x 12.7cm/40 Type 89 | 13

Max ROF	Range	Shell Size/Weight
12.0 sh/min	16,185 yds 32.4"	5.0" 51.7 lbs.

Fire Control	FC Radar	
1 1D3	None	+ 0

AP	SAP
COM	HE

AA	2.7	Level	V	Ammunition	300 rpg	900

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	26	18	21	14	17	12	16	11
10 - 18	23	16	18	13	15	11	14	9
19 - 27	21	15	17	12	14	10	13	9
28 - 36	20	14	16	11	13	9	12	8
37 - 45	19	13	15	10	13	9	11	8

HE — PENETRATION TABLE

Yds	2,000	4,000	6,000	8,000	10,000	12,000	15,000	18,000	21,000	24,000	27,000	30,000	33,000	36,000
ROF	7.6	6.2	5.0	4.0	3.3	2.7	2.0	1.6						
Rge	S	S	M	M	L	L	E	E						
H	0.1	0.2	0.3	0.4	0.5	0.8	1.4	1.8						
V	3.9	2.8	2.1	1.7	1.3	1.2	1.1	1.3						

Crew	Sea	BR	Targ Sz	Ops
			0	

AIRCRAFT

Aircraft	0			Catapult	0	

TORPEDOES

TT	4	Ammo	8

61cm Type 93 M1-2

Damage Class	A

Settings

22,000/48

35,000/40

43,700/36

MINES

RAPID FIRE BATTERIES

RF1	24	25mm/60 Type 96				
Max Rg	7,440	14.9"	9	7		
Eff Rg	3,348	6.7"	13	10		

RF						
5	Port	12	10	7	4	2
	Stbd	12	10	7	4	2
AA	Port	49	39	27	16	7
M	Stbd	49	39	27	16	7

RF2		None				
Max Rg						
Eff Rg						

RF						
0	Port					
	Stbd					
AA	Port					
	Stbd					

RF3		None				
Max Rg						
Eff Rg						

RF						
	Port					
	Stbd					
AA	Port					
	Stbd					

Captain	

T#	BTTY	TARGET SHIP	SHELL	FCS	BR	H	RANGE	R	#RNDS	HITS

Coal (ts)	0	Oil (ts)	
Engines	Kampon GT		
Boilers	2 Kampon		

Radius (nm/kts)	
4680	16

Search Radar
No.22 M4
No.13 Type 3 M1

ASW MORTARS/ATW		
2 Y-Guns		
None		

DEPTH CHARGES			
Rack	2		
Ammo	36		

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Yunagi

TIER	DP
1/70	65
2/80	129
3/75	194
4/85	258
5/80	323
6/90	381
7/85	439
8/95	497
9/90	555
10	613
10	651

DP	645
KTS	27

Engine Rm	2	27	16	0	0	0	0
Prop/Shaft	2	27	14	0	0	0	0
Boiler Rm	2	27	17	0	0	0	0
			0	0	0	0	0

Standard Turn	
90	
Emergency Turn	
120	

Target Sz	
0	
Searchlights	
Port	Stbd

Speed	00-09 kt	10-16 kt	17-20 kt	21-23 kt	24+ kt	
Increase	10.0	7.0	4.0	3.0	1.0	

Crew

Bridge Command Rating	Flag Command Rating	Damage Control (DCR)
		2

Fuel Code	

ARMOR	1.00	Actual
1H DECK	0.0	0.0
2H TURRET	0.0	0.0
3H SUPERSTR	0.0	0.0
4V CON	0.0	0.0
5V BELT MID	0.0	0.0
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