



Hammann (DD 412)

DD UNITED STATES 1939 to 1940
6620-0 SIMS Class

Displacement
Complement
Lost 06/06/1942

1,764 ts
192

Length 341 ft
Beam 36 ft
Draft 12.9 ft

Federal Shipbuilding

Launched 02/04/1939
Completed 08/11/1939



SHIP LOG SHEET

Version 2/14/2009

5 x 5"/38 Mk 12

13

FIRE CONTROL TABLE

T Kts	Short	Medium	Long	Extreme				
0 - 9	26	18	20	14	17	12	15	11
10 - 18	20	14	15	11	13	9	12	8
19 - 27	17	12	13	9	11	8	10	7
28 - 36	15	10	12	8	10	7	9	6
37 - 45	14	10	11	7	9	6	8	6

Max ROF		Range		Shell Size/Weight	
17.0	sh/min	18,101	yds	36.2"	
Fire Control		FC Radar		+ 0	
1	1C3	None			
AA		Level		Ammunition	
3.4	V			300	rpg
COM		AP		SAP	
		COM		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	7.7	6.4	5.2	4.3	3.5	2.9	2.2	1.6	1.5					
Rge	S	S	S	M	M	L	E	E	E					
H	0.1	0.2	0.3	0.4	0.5	0.7	1.3	1.9	2.1					
V	6.6	4.9	3.6	2.8	2.3	1.5	1.4	1.5	1.6					

Crew	Sea	BR	Targ Sz	Ops
			0	

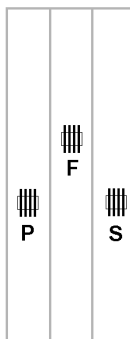
AIRCRAFT

Aircraft	0	Catapult	0
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TORPEDOES

TT	12	Ammo	16
21" Mark 15			
Damage Class	B		
Settings			
	6,000/45		
	10,000/33		
	15,000/26		

MINES



RAPID FIRE BATTERIES

RF1	None			
Max Rg				
Eff Rg				

RF	Port				
0	Stbd				

AA	Port				
	Stbd				

RF2	None			
Max Rg				
Eff Rg				

RF	Port				
0	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	#RND	HITS
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Coal (ts)	0	Oil (ts)	484	Radius (nm/kts)	Search Radar	ASW MORTARS/ATW	DEPTH CHARGES
Engines	Westinghouse GT		6500	12	None		Rack 2
Boilers	3 B&W				None		Ammo 12



Hammann (DD 412)

DD UNITED STATES 1941 to 1942

6620-1 SIMS Class

Displacement
Complement
Lost 06/06/1942

1,764 ts
192

Length
Beam
Draft

341 ft
36 ft
12.9 ft

Federal Shipbuilding
Launched 02/04/1939
Completed 08/11/1939



SHIP LOG SHEET

Version 2/14/2009

5 x 5"/38 Mk 12

13

FIRE CONTROL TABLE grid with columns for T Kts, Short, Medium, Long, Extreme and rows for 0-9, 10-18, 19-27, 28-36, 37-45.

Max ROF: 17.0 sh/min; Range: 18,101 yds 36.2"; Shell Size/Weight: 5.0" 55.2 lbs.; FC Radar: +2; AP/SAP: COM/HE; Ammunition: 300 rpg 1500.

COM PENETRATION TABLE grid with columns for Yds (2,000-36,000) and rows for ROF, Rge, H, V.

Crew, Sea, BR, Targ Sz, Ops grid with Targ Sz value 0.

AIRCRAFT

Aircraft 0, Catapult 0.

TORPEDOES

1 21" Mark 15; TT 8; Ammo 8; Settings: 6,000/45, 10,000/33, 15,000/26.

MINES

RAPID FIRE BATTERIES

RF1 4 20mm/70 Mk 1-4; Max Rg 4,800 9.6"; Eff Rg 2,160 4.3"; RF 4; AA L.

RF2 None; Max Rg; Eff Rg.

RF 0; AA.

RF3 None; Max Rg; Eff Rg.

RF; AA.

Captain

Main log sheet grid with columns: T#, BTY, TARGET SHIP, SHELL, FCS, BR, H, RANGE, R, #RND, HITS.

Summary table: Coal (ts) 0, Oil (ts) 484, Radius (nm/mts), Search Radar SC, ASW MORTARS/ATW 1 K-Gun, DEPTH CHARGES Rack 2, Ammo 22.

TIER	DP	DP	763											
1/70	76	KTS	35											
2/80	153													
3/75	229	Engine Rm	2	35	20	0	0	0	0	Standard Turn	Target Sz			
4/85	305	Prop/Shaft	2	35	18	0	0	0	0	45	0			
5/80	382	Boiler Rm	2	35	22	0	0	0	0	Emergency Turn	Searchlights			
6/90	450						0	0	0	0	60	Port	Stbd	
7/85	519	Speed	00-11 kt	12-19 kt	20-25 kt	26-28 kt	29+ kt			Crew				
8/95	588	Increase	12.0	9.0	5.0	3.0	1.0							
9/90	656													
10	725	Bridge Command Rating				Flag Command Rating				Damage Control (DCR)				
10	771							2						

Fuel Code	DD5B		
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		DAMAGE CONTROL	
ROLL	EFFECT ON FIRE	ROLL	EFFECT ON FIRE
01-03	-20 from severity	01-05	Fire extinguished
04-12	-10 from severity	06-15	-30 from severity
13-50	No change	16-45	-20 from severity
51-85	+10 to severity	46-75	-10 from severity
86-95	+30 to severity	76-90	No change
96-00	+40 to severity	91-00	+10 to severity



Hughes (DD 410)

DD UNITED STATES

1939 to 1940

6618-0 SIMS Class

Displacement
Complement
Scuttled 10/16/1948

1,764 ts
192

Length 341 ft
Beam 36 ft
Draft 12.9 ft

Bath Iron Works

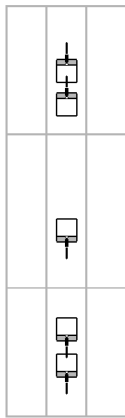
Launched 06/17/1939

Completed 09/21/1939



SHIP LOG SHEET

Version 2/14/2009



5 x 5"/38 Mk 12

13

Max ROF 17.0 sh/min		Range 18,101 yds 36.2"		Shell Size/Weight 5.0" 55.2 lbs.	
Fire Control 1 1C3		FC Radar None		AP COM	SAP HE
AA 3.4 Level V		Ammunition 300 rpg 1500			

FIRE CONTROL TABLE									
T Kts	Short			Medium			Long		Extreme
0 - 9	26	18	20	14	17	12	15	11	
10 - 18	20	14	15	11	13	9	12	8	
19 - 27	17	12	13	9	11	8	10	7	
28 - 36	15	10	12	8	10	7	9	6	
37 - 45	14	10	11	7	9	6	8	6	

COM	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	7.7	6.4	5.2	4.3	3.5	2.9	2.2	1.6	1.5						
Rge	S	S	S	M	M	L	E	E	E						
H	0.1	0.2	0.3	0.4	0.5	0.7	1.3	1.9	2.1						
V	6.6	4.9	3.6	2.8	2.3	1.5	1.4	1.5	1.6						

Crew	Sea	BR	Targ Sz	Ops
			0	

AIRCRAFT

Aircraft	0	Catapult	0
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TORPEDOES			
TT	12	Ammo	16
21" Mark 15			
Damage Class	B		
Settings			
	6,000/45		
	10,000/33		
	15,000/26		
MINES			

RAPID FIRE BATTERIES

RF1	None			
Max Rg				
Eff Rg				

RF	Port			
0	Stbd			

AA	Port			
	Stbd			

RF2	None			
Max Rg				
Eff Rg				

RF	Port			
0	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	#RND	HITS

Coal (ts)	0	Oil (ts)	484	Radius (nm/kts)		Search Radar		ASW MORTARS/ATW		DEPTH CHARGES	
Engines	Westinghouse GT			6500	12	None				Rack 2	
Boilers	3 B&W					None				Ammo 12	

TIER	DP	DP	763								
1/70	76	KTS	35								
2/80	153	Engine Rm	2	35	20	0	0	0	0	Standard Turn	Target Sz
3/75	229	Prop/Shaft	2	35	18	0	0	0	0	45	0
4/85	305	Boiler Rm	2	35	22	0	0	0	0	Emergency Turn	Searchlights
5/80	382									60	Port Stbd
6/90	450										
7/85	519	Speed	00-11 kt	12-19 kt	20-25 kt	26-28 kt	29+ kt				Crew
8/95	588	Increase	12.0	9.0	5.0	3.0	1.0				
9/90	656										
10	725	Bridge Command Rating								Damage Control (DCR)	
10	771									2	

Fuel Code	DD5B	
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																						
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TORPEDO AND AIRCRAFT																						
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PRIMARY BATTERY																						
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																					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

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

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

T#	Fire	Current Severity	T#	Fire	Current Severity

NO DAMAGE CONTROL		DAMAGE CONTROL	
ROLL	EFFECT ON FIRE	ROLL	EFFECT ON FIRE
01-03	-20 from severity	01-05	Fire extinguished
04-12	-10 from severity	06-15	-30 from severity
13-50	No change	16-45	-20 from severity
51-85	+10 to severity	46-75	-10 from severity
86-95	+30 to severity	76-90	No change
96-00	+40 to severity	91-00	+10 to severity



Morris (DD 417)

DD UNITED STATES

1943 to 1945

6625-2 SIMS Class

Displacement 1,764 ts
Complement 192
Scrapped 00/00/1947

Length 341 ft
Beam 36 ft
Draft 12.9 ft

Norfolk Navy Yard
Launched 06/01/1939
Completed 03/05/1940



SHIP LOG SHEET

Version 2/14/2009



4 x 5" / 38 Mk 12

13

FIRE CONTROL TABLE									
T Kts	Short	Medium	Long	Extreme					
0 - 9	26	18	20	14	17	12	15	11	
10 - 18	20	14	15	11	13	9	12	8	
19 - 27	17	12	13	9	11	8	10	7	
28 - 36	15	10	12	8	10	7	9	6	
37 - 45	14	10	11	7	9	6	8	6	

Max ROF		Range		Shell Size/Weight	
17.0	sh/min	18,101	yds 36.2"	5.0"	55.2 lbs.
Fire Control		FC Radar	+ 2	AP	SAP
1	1C3	Mark 4 (FD)		COM	HE
AA	3.4	Level	V	Ammunition	300 rpg 1200

COM	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	7.7	6.4	5.2	4.3	3.5	2.9	2.2	1.6	1.5					
Rge	S	S	S	M	M	L	E	E	E					
H	0.1	0.2	0.3	0.4	0.5	0.7	1.3	1.9	2.1					
V	6.6	4.9	3.6	2.8	2.3	1.5	1.4	1.5	1.6					

Crew	Sea	BR	Targ Sz	Ops
			0	

AIRCRAFT

Aircraft	0	Catapult	0
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TORPEDOES

TT	8	Ammo	8
21" Mark 15			
Damage Class	A		
Settings			
6,000/45			
10,000/33			
15,000/26			

MINES

RAPID FIRE BATTERIES

RF1	4	40mm/56 Mk1 Bofors					
Max Rg	11,133	22.3"	9	7			
Eff Rg	5,010	10.0"	13	10			
RF	10	Port	2	2	1	1	0
		Stbd	2	2	1	1	0
AA	H	Port	14	11	8	5	2
		Stbd	14	11	8	5	2

RF2	4	20mm/70 Mk1-4					
Max Rg	4,800	9.6"	9	7			
Eff Rg	2,160	4.3"	13	10			
RF	4	Port	2	2	1	1	0
		Stbd	2	2	1	1	0
AA	L	Port	15	12	8	5	2
		Stbd	15	12	8	5	2

RF3	None					
Max Rg						
Eff Rg						

RF	Port					
	Stbd					
AA	Port					
	Stbd					

Captain

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

Coal (ts)	0	Oil (ts)	484	Radius (nm/kts)	Search Radar	ASW MORTARS/ATW	DEPTH CHARGES
Engines	Westinghouse GT		6500	12	SC	1 K-Gun	Rack 2
Boilers	3 B&W				None		Ammo 22



Mustin (DD 413)

DD UNITED STATES 1939 to 1940

6621-0 SIMS Class

Displacement
Complement
Scuttled 04/18/1948

1,764 ts
192

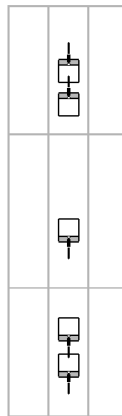
Length 341 ft
Beam 36 ft
Draft 12.9 ft

Newport News
Launched 12/08/1938
Completed 09/15/1939



SHIP LOG SHEET

Version 2/14/2009



5 x 5"/38 Mk 12

13

Max ROF		Range		Shell Size/Weight	
17.0	sh/min	18,101 yds	36.2"	5.0"	55.2 lbs.

Fire Control		FC Radar		AP		SAP	
1	1C3	None					

AA	3.4	Level	V	Ammunition	300 rpg	1500
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FIRE CONTROL TABLE											
T Kts	Short		Medium		Long		Extreme				
0 - 9	26	18	20	14	17	12	15	11			
10 - 18	20	14	15	11	13	9	12	8			
19 - 27	17	12	13	9	11	8	10	7			
28 - 36	15	10	12	8	10	7	9	6			
37 - 45	14	10	11	7	9	6	8	6			

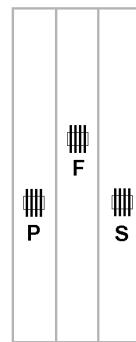
COM	PENETRATION TABLE														
Yds	2,000	4,000	6,000	8,000	10,000	12,000	15,000	18,000	21,000	24,000	27,000	30,000	33,000	36,000	
ROF	7.7	6.4	5.2	4.3	3.5	2.9	2.2	1.6	1.5						
Rge	S	S	S	M	M	L	E	E	E						
H	0.1	0.2	0.3	0.4	0.5	0.7	1.3	1.9	2.1						
V	6.6	4.9	3.6	2.8	2.3	1.5	1.4	1.5	1.6						

Crew	Sea	BR	Targ Sz	Ops
			0	

Captain

AIRCRAFT

Aircraft	0	Catapult	0
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TORPEDOES

TT	12	Ammo	16
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21" Mark 15

Damage Class B

Settings

6,000/45

10,000/33

15,000/26

MINES

RAPID FIRE BATTERIES

RF1 None

Max Rg		
Eff Rg		

RF	Port				
0	Stbd				

AA	Port				
	Stbd				

RF2 None

Max Rg		
Eff Rg		

RF	Port				
0	Stbd				

AA	Port				
	Stbd				

RF3 None

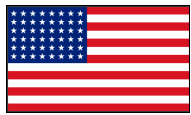
Max Rg		
Eff Rg		

RF	Port				
	Stbd				

AA	Port				
	Stbd				

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

Coal (ts)	0	Oil (ts)	484	Radius (nm/kts)	Search Radar		ASW MORTARS/ATW		DEPTH CHARGES	
Engines	Westinghouse GT			6500	12	None			Rack	2
Boilers	3 B&W					None			Ammo	12



Mustin (DD 413)

DD UNITED STATES

1941 to 1942

6621-1 SIMS Class

Displacement
Complement
Scuttled 04/18/1948

1,764 ts
192

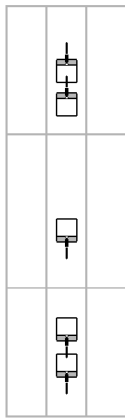
Length 341 ft
Beam 36 ft
Draft 12.9 ft

Newport News
Launched 12/08/1938
Completed 09/15/1939



SHIP LOG SHEET

Version 2/14/2009



5 x 5"/38 Mk 12

13

FIRE CONTROL TABLE

T Kts	Short	Medium	Long	Extreme
0 - 9	26 18	20 14	17 12	15 11
10 - 18	20 14	15 11	13 9	12 8
19 - 27	17 12	13 9	11 8	10 7
28 - 36	15 10	12 8	10 7	9 6
37 - 45	14 10	11 7	9 6	8 6

Max ROF 17.0 sh/min		Range 18,101 yds 36.2"		Shell Size/Weight 5.0" 55.2 lbs.	
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Fire Control 1 1C3		FC Radar + 2 Mark 4 (FD)		AP COM	SAP HE
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AA	3.4	Level	V	Ammunition	300 rpg	1500
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COM 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	7.7	6.4	5.2	4.3	3.5	2.9	2.2	1.6	1.5					
Rge	S	S	S	M	M	L	E	E	E					
H	0.1	0.2	0.3	0.4	0.5	0.7	1.3	1.9	2.1					
V	6.6	4.9	3.6	2.8	2.3	1.5	1.4	1.5	1.6					

Crew	Sea	BR	Targ Sz	Ops
			0	

AIRCRAFT

Aircraft	0	Catapult	0
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TORPEDOES

TT	8	Ammo	8
21" Mark 15			
Damage Class	B		
Settings			
	6,000/45		
	10,000/33		
	15,000/26		

RAPID FIRE BATTERIES

RF1	4	20mm/70 Mks 1-4			
Max Rg	4,800	9.6"	7	5	
Eff Rg	2,160	4.3"	11	8	

RF	Port	2	2	1	1	0
4	Stbd	2	2	1	1	0

AA	Port	15	12	8	5	2
L	Stbd	15	12	8	5	2

RF2 None

Max Rg	
Eff Rg	

RF	Port				
0	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	#RND	HITS

Coal (ts)	0	Oil (ts)	484	Radius (nm/kts)	Search Radar		ASW MORTARS/ATW		DEPTH CHARGES	
Engines	Westinghouse GT			6500	12	SC		1 K-Gun	Rack	2
Boilers	3 B&W					None			Ammo	22

TIER	DP
1/70	76
2/80	153
3/75	229
4/85	305
5/80	382
6/90	450
7/85	519
8/95	588
9/90	656
10	725
10	771

DP	763								
KTS	35								
Engine Rm	2	35	20	0	0	0	0	Standard Turn	Target Sz
Prop/Shaft	2	35	18	0	0	0	0	45	0
Boiler Rm	2	35	22	0	0	0	0	Emergency Turn	Searchlights
				0	0	0	0	60	Port Stbd
Speed	00-11 kt	12-19 kt	20-25 kt	26-28 kt	29+ kt			Crew	
Increase	12.0	9.0	5.0	3.0	1.0				
Bridge Command Rating		Flag Command Rating		Damage Control (DCR)					
				2					

Fuel Code	DD5B				
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

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

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

T#	Fire	Current Severity	T#	Fire	Current Severity

FIGHTING SHIPBOARD FIRES			
NO DAMAGE CONTROL		DAMAGE CONTROL	
ROLL	EFFECT ON FIRE	ROLL	EFFECT ON FIRE
01-03	-20 from severity	01-05	Fire extinguished
04-12	-10 from severity	06-15	-30 from severity
13-50	No change	16-45	-20 from severity
51-85	+10 to severity	46-75	-10 from severity
86-95	+30 to severity	76-90	No change
96-00	+40 to severity	91-00	+10 to severity



O'Brien (DD 415)

DD UNITED STATES

1940 to 1941

6623-0 SIMS Class

Displacement
Complement
Lost 10/19/1942

1,764 ts
192

Length 341 ft
Beam 36 ft
Draft 12.9 ft
Boston Navy Yard
Launched 10/20/1939
Completed 03/02/1940



SHIP LOG SHEET

Version 2/14/2009

5 x 5"/38 Mk 12

13

Max ROF 17.0 sh/min		Range 18,101 yds 36.2"		Shell Size/Weight 5.0" 55.2 lbs.	
Fire Control 1 1C3			FC Radar + 0 None		AP SAP COM HE
AA	3.4	Level	V	Ammunition 300 rpg 1500	

FIRE CONTROL TABLE						
T Kts	Short	Medium	Long	Extreme		
0 - 9	26 18	20 14	17 12	15 11	11	
10 - 18	20 14	15 11	13 9	12 8	8	
19 - 27	17 12	13 9	11 8	10 7	7	
28 - 36	15 10	12 8	10 7	9 6	6	
37 - 45	14 10	11 7	9 6	8 6	6	

Crew	Sea	BR	Targ Sz	Ops
			0	

AIRCRAFT			
Aircraft	0	Catapult	0

TORPEDOES			
TT	8	Ammo	8
21" Mark 15			
Damage Class	B		
Settings			
6,000/45			
10,000/33			
15,000/26			
MINES			

COM		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	7.7	6.4	5.2	4.3	3.5	2.9	2.2	1.6	1.5					
Rge	S	S	S	M	M	L	E	E	E					
H	0.1	0.2	0.3	0.4	0.5	0.7	1.3	1.9	2.1					
V	6.6	4.9	3.6	2.8	2.3	1.5	1.4	1.5	1.6					

RAPID FIRE BATTERIES			
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RF1	None			
Max Rg				
Eff Rg				
RF 0	Port			
	Stbd			
AA	Port			
	Stbd			

RF2	None			
Max Rg				
Eff Rg				
RF 0	Port			
	Stbd			
AA	Port			
	Stbd			

RF3	None			
Max Rg				
Eff Rg				
RF 0	Port			
	Stbd			
AA	Port			
	Stbd			

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

Coal (ts)	0	Oil (ts)	484	Radius (nm/kts)		Search Radar		ASW MORTARS/ATW		DEPTH CHARGES		
Engines	Westinghouse GT			6500	12	None		1 K-Gun		Rack	2	
Boilers	3 B&W					None				Ammo	22	



Roe (DD 418)

DD UNITED STATES 1940 to 1941

6626-0 SIMS Class

Displacement 1,764 ts | Length 341 ft | Charleston Navy Yard
 Complement 192 | Beam 36 ft | Launched 06/21/1939
 Scrapped 00/00/1947 | Draft 12.9 ft | Completed 01/05/1940



SHIP LOG SHEET

Version 2/14/2009

5 x 5"/38 Mk 12

13

FIRE CONTROL TABLE										
T Kts	Short	Medium	Long	Extreme						
0 - 9	26	18	20	14	17	12	15	11		
10 - 18	20	14	15	11	13	9	12	8		
19 - 27	17	12	13	9	11	8	10	7		
28 - 36	15	10	12	8	10	7	9	6		
37 - 45	14	10	11	7	9	6	8	6		

Max ROF				Range				Shell Size/Weight			
17.0 sh/min				18,101 yds 36.2"				5.0" 55.2 lbs.			
Fire Control				FC Radar				+ 0			
1 1C3				None				AP SAP			
COM				COM HE				AA Level V Ammunition 300 rpg 1500			

COM	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	7.7	6.4	5.2	4.3	3.5	2.9	2.2	1.6	1.5					
Rge	S	S	S	M	M	L	E	E	E					
H	0.1	0.2	0.3	0.4	0.5	0.7	1.3	1.9	2.1					
V	6.6	4.9	3.6	2.8	2.3	1.5	1.4	1.5	1.6					

Crew	Sea	BR	Targ Sz	Ops
			0	

AIRCRAFT				
Aircraft	0	Catapult	0	

TORPEDOES				
TT	8	Ammo	8	
21" Mark 15				
Damage Class	B			
Settings				
6,000/45				
10,000/33				
15,000/26				
MINES				

RAPID FIRE BATTERIES

RF1	None			
Max Rg				
Eff Rg				

RF	Port			
0	Stbd			
AA	Port			
	Stbd			

RF2	None			
Max Rg				
Eff Rg				

RF	Port			
0	Stbd			
AA	Port			
	Stbd			

RF3	None			
Max Rg				
Eff Rg				

RF	Port			
	Stbd			
AA	Port			
	Stbd			

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

Coal (ts)	0	Oil (ts)	484	Radius (nm/kts)		Search Radar		ASW MORTARS/ATW		DEPTH CHARGES	
Engines	Westinghouse GT			6500 12		None		1 K-Gun		Rack 2	
Boilers	3 B&W					None				Ammo 22	



Roe (DD 418)
 DD UNITED STATES 1943 to 1945
 6626-2 SIMS Class

Displacement 1,764 ts Length 341 ft Charleston Navy Yard
 Complement 192 Beam 36 ft Launched 06/21/1939
 Scrapped 00/00/1947 Draft 12.9 ft Completed 01/05/1940



SHIP LOG SHEET
 Version 2/14/2009

4 x 5"/38 Mk 12 13

Max ROF 17.0 sh/min		Range 18,101 yds 36.2"		Shell Size/Weight 5.0" 55.2 lbs.	
Fire Control 1 1C3		FC Radar Mark 4 (FD)	+ 2		AP SAP COM HE
AA	3.4	Level	V	Ammunition	300 rpg 1200

FIRE CONTROL TABLE						
T Kts	Short	Medium	Long	Extreme		
0 - 9	26	18	20	14	17	12 15 11
10 - 18	20	14	15	11	13	9 12 8
19 - 27	17	12	13	9	11	8 10 7
28 - 36	15	10	12	8	10	7 9 6
37 - 45	14	10	11	7	9	6 8 6

COM	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	7.7	6.4	5.2	4.3	3.5	2.9	2.2	1.6	1.5					
Rge	S	S	S	M	M	L	E	E	E					
H	0.1	0.2	0.3	0.4	0.5	0.7	1.3	1.9	2.1					
V	6.6	4.9	3.6	2.8	2.3	1.5	1.4	1.5	1.6					

Crew	Sea	BR	Targ Sz	Ops
			0	

AIRCRAFT

Aircraft	0	Catapult	0
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TORPEDOES

TT	8	Ammo	8
21" Mark 15			
Damage Class	A		
Settings			
	6,000/45		
	10,000/33		
	15,000/26		

MINES

RAPID FIRE BATTERIES

RF1	4	40mm/56 Mk1 Bofors			
Max Rg	11,133	22.3"	9	7	
Eff Rg	5,010	10.0"	13	10	

RF	Port	2	2	1	1	0
	Stbd	2	2	1	1	0

AA	Port	14	11	8	5	2
	Stbd	14	11	8	5	2

RF2	4	20mm/70 Mks 1-4			
Max Rg	4,800	9.6"	9	7	
Eff Rg	2,160	4.3"	13	10	

RF	Port	2	2	1	1	0
	Stbd	2	2	1	1	0

AA	Port	15	12	8	5	2
	Stbd	15	12	8	5	2

RF3	None					
Max Rg						
Eff Rg						

RF	Port					
	Stbd					

AA	Port					
	Stbd					

Captain _____

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

Coal (ts)	0	Oil (ts)	484	Radius (nm/kts)		Search Radar		ASW MORTARS/ATW		DEPTH CHARGES
Engines	Westinghouse GT		6500	12		SC		1 K-Gun		Rack 2
Boilers	3 B&W					None				Ammo 22



Walke (DD 416)

DD UNITED STATES 1941 to 1942
6624-1 SIMS Class

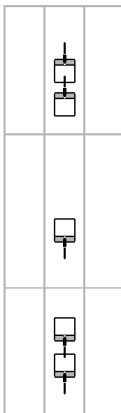
Displacement
Complement
Lost 11/14/1942

1,764 ts Length 341 ft
192 Beam 36 ft
Draft 12.9 ft
Boston Navy Yard
Launched 10/20/1939
Completed 04/27/1940



SHIP LOG SHEET

Version 2/14/2009



5 x 5"/38 Mk 12

13

Max ROF		Range		Shell Size/Weight		
17.0	sh/min	18,101 yds	36.2"	5.0"	55.2 lbs.	
Fire Control		FC Radar	+ 2	AP	SAP	
1	1C3	Mark 4 (FD)		COM	HE	
AA	3.4	Level	V	Ammunition	300 rpg	1500

T Kts	Short	Medium	Long	Extreme				
0 - 9	26	18	20	14	17	12	15	11
10 - 18	20	14	15	11	13	9	12	8
19 - 27	17	12	13	9	11	8	10	7
28 - 36	15	10	12	8	10	7	9	6
37 - 45	14	10	11	7	9	6	8	6

COM		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	7.7	6.4	5.2	4.3	3.5	2.9	2.2	1.6	1.5					
Rge	S	S	S	M	M	L	E	E	E					
H	0.1	0.2	0.3	0.4	0.5	0.7	1.3	1.9	2.1					
V	6.6	4.9	3.6	2.8	2.3	1.5	1.4	1.5	1.6					

Crew	Sea	BR	Targ Sz	Ops
			0	

Aircraft	0	Catapult	0
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TORPEDOES			
TT	8	Ammo	8
21" Mark 15			
Damage Class	B		
Settings			
6,000/45			
10,000/33			
15,000/26			
MINES			

RF1	4	20mm/70 Mk5 1-4					
Max Rg	4,800	9.6"	7	5			
Eff Rg	2,160	4.3"	11	8			
RF	4	Port	2	2	1	1	0
		Stbd	2	2	1	1	0
AA	L	Port	15	12	8	5	2
		Stbd	15	12	8 <td>5</td> <td>2</td>	5	2

RF2	None						
Max Rg							
Eff Rg							
RF	0	Port	Stbd				
AA	Port						

RF3	None						
Max Rg							
Eff Rg							
RF	0	Port	Stbd				
AA	Port						

RF	0	Port	Stbd				
AA	Port						

Captain _____

T#	BTTY	TARGET SHIP	SHELL	FCS	BR	H	RANGE	R	#RND5	HITS

Coal (ts)	0	Oil (ts)	484	Radius (nm/kts)		Search Radar		ASW MORTARS/ATW		DEPTH CHARGES	
Engines	Westinghouse GT		6500	12	SC		1 K-Gun		Rack	2	
Boilers	3 B&W				None				Ammo	22	

