Bristol

CL GREAT BRITAIN 1912 to 1916

0866-0 BRISTOL Class

Displacement	5,000 ts	*Length*	453 ft	John Brown	
Complement	480	*Beam*	47 ft	*Launched*	02/23/1910
Sold 05/00/1921		*Draft*	15.5 ft	*Completed*	10/00/1912

SEEKRIEG 5

SHIP LOG SHEET

Version 2/18/2009

2 x 6"/50 BL Mk XI — 16

Max ROF	Range	Shell Size/Weight
6.0 sh/min	13,400 yds 26.8"	6.0" 100.0 lbs.

Fire Control			FC Radar	+ 0	AP	SAP
1		1S2	None		COM	HE

AA	0.0	Level	S	Ammunition	120 rpg	240

FIRE CONTROL TABLE								
T Kts	Short		Medium		Long		Extreme	
0 - 9	12	8	8	5	6	4	5	3
10 - 18	9	5	6	4	4	3	4	2
19 - 27	7	4	5	3	4	2	3	2
28 - 36	6	4	4	2	3	2	2	2
37 - 45	5	3	4	2	3	2	2	1

CPC	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	7.9	6.7	5.6	4.7	3.9	3.3	2.9							
Rge	S	S	S	M	M	L	L							
H	0.1	0.2	0.3	0.4	0.5	0.7	0.8							
V	5.2	4.2	3.2	2.4	1.9	1.8	1.7							

10 x 4"/50 BL Mk VII — 10

Max ROF	Range	Shell Size/Weight
8.0 sh/min	11,600 yds 23.2"	4.0" 31.0 lbs.

Fire Control			FC Radar	+ 0	AP	SAP
2		2T2	None		COM	HE

AA	0.0	Level	S	Ammunition	200 rpg	2000

FIRE CONTROL TABLE								
T Kts	Short		Medium		Long		Extreme	
0 - 9	8	5	5	3	4	3	3	2
10 - 18	6	4	4	2	3	2	2	1
19 - 27	5	3	3	2	2	1	2	1
28 - 36	4	3	3	2	2	1	2	1
37 - 45	4	2	2	2	2	1	1	1

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	7.8	6.4	5.2	4.2	3.4	2.9								
Rge	S	S	M	M	L	L								
H	0.1	0.1	0.2	0.3	0.4	0.6								
V	3.2	2.2	1.5	1.2	1.1	1.0								

Crew	Sea	BR	Targ Sz	Ops
			1	

Captain	

AIRCRAFT

Aircraft	0			Catapult	0	

P S

TORPEDOES

TT	2	Ammo	4

21" Mk I

Damage Class	F

Settings

3,000/45

7,000/30

MINES

RAPID FIRE BATTERIES

RF1	4	3pdr 5cwt Mk I,II			
Max Rg	7,000	14.0"	5	4	
Eff Rg	3,150	6.3"	8	6	

RF						
7	Port	2	2	1	1	0
	Stbd	2	2	1	1	0
AA	Port	0	0	0	0	0
S	Stbd	0	0	0	0	0

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					

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

Coal (ts)	900	Oil (ts)	250
Engines	Parsons turbines		
Boilers	12 Yarrow		

Radius (nm/kts)	
5070	16

Search Radar
None
None

ASW MORTARS/ATW			DEPTH CHARGES			
			Rack			
			Ammo			

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Bristol

TIER	DP
1/70	129
2/80	257
3/75	386
4/85	514
5/80	643
6/90	758
7/85	874
8/95	989
9/90	1105
10	1221
10	1298

DP	1285
KTS	26

Engine Rm	2	26	15	0	0	0	0
Prop/Shaft	4	26	23	13	3	0	0
Boiler Rm	3	26	22	9	0	0	0
			0	0	0	0	0

Standard Turn	
90	
Emergency Turn	
120	

Target Sz	
1	
Searchlights	
Port	Stbd

Speed	00-06 kt	07-11 kt	12-13 kt	14-17 kt	18+ kt	
Increase	7.0	6.0	3.0	2.0	1.0	

Crew

Bridge Command Rating	Flag Command Rating	Damage Control (DCR)
		3

Fuel Code	CS2A

ARMOR	0.82	Actual
1H DECK	1.6	2.0
2H TURRET	0.0	0.0
3H SUPERSTR	0.4	0.4
4V CON	1.6	2.0
5V BELT MID	0.0	0.0
6V BELT END	0.0	0.0
7V BARBETTE	0.0	0.0
8V TURRET	3.3	4.0
9V SUPERSTR	0.4	0.5

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
SECONDARY BATTERY																					
																				B2D	Directed fire as range permits
																				B2L	Local control as range permits
																				B2P	Split fire
																				B2C	Change target
																				B2B	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

Bristol

CL GREAT BRITAIN 1916 to 1919

0866-1 BRISTOL Class

Displacement	5,000 ts	*Length*	453 ft	John Brown	
Complement	480	*Beam*	47 ft	*Launched*	02/23/1910
Sold 05/00/1921		*Draft*	15.5 ft	*Completed*	10/00/1912

SEEKRIEG 5

SHIP LOG SHEET

Version 2/18/2009

2 x 6"/50 BL Mk XI — 16

Max ROF	Range	Shell Size/Weight
6.0 sh/min	16,268 yds 32.5"	6.0" 100.0 lbs.

Fire Control	FC Radar	
1 1Q2	None	+ 0

AA	0.0	Level	S	Ammunition	120 rpg	240

AP	SAP
COM	HE

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	14	9	9	6	7	4	6	4
10 - 18	10	6	7	4	5	3	4	3
19 - 27	8	5	5	3	4	3	3	2
28 - 36	7	4	5	3	3	2	3	2
37 - 45	6	4	4	3	3	2	3	2

CPC — 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	7.9	6.7	5.6	4.7	3.9	3.3	2.5	2.3						
Rge	S	S	S	M	M	L	L	L						
H	0.1	0.2	0.3	0.4	0.5	0.7	1.2	1.4						
V	5.2	4.2	3.2	2.4	1.9	1.8	1.6	1.7						

10 x 4"/50 BL Mk VII — 10

Max ROF	Range	Shell Size/Weight
8.0 sh/min	11,600 yds 23.2"	4.0" 31.0 lbs.

Fire Control	FC Radar	
2 2Q2	None	+ 0

AA	0.0	Level	S	Ammunition	200 rpg	2000

AP	SAP
COM	HE

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	11	7	7	5	5	3	4	3
10 - 18	8	5	5	3	4	2	3	2
19 - 27	6	4	4	3	3	2	3	2
28 - 36	5	3	4	2	3	2	2	1
37 - 45	5	3	3	2	2	2	2	1

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	7.8	6.4	5.2	4.2	3.4	2.9								
Rge	S	S	M	M	L	L								
H	0.1	0.1	0.2	0.3	0.4	0.6								
V	3.2	2.2	1.5	1.2	1.1	1.0								

Crew	Sea	BR	Targ Sz	Ops
			1	

AIRCRAFT

Aircraft	0	Catapult	0

P S

TORPEDOES

TT	2	Ammo	4

21" Mk IV

Damage Class	E

Settings: 8,000/35; 10,000/29; 13,500/25

MINES

RAPID FIRE BATTERIES

RF1	1	3.0"/45 20cwt QF			
Max Rg	10,900	21.8"	7	5	
Eff Rg	4,905	9.8"	11	8	

RF 18						
	Port	1	0	0	0	0
	Stbd	1	0	0	0	0
AA H	Port	1	1	1	0	0
	Stbd	1	1	1	0	0

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)	900	Oil (ts)	250
Engines	Parsons turbines		
Boilers	12 Yarrow		

Radius (nm/kts)	
5070	16

Search Radar
None
None

ASW MORTARS/ATW			DEPTH CHARGES			
			Rack			
			Ammo			

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Bristol

TIER	DP
1/70	129
2/80	257
3/75	386
4/85	514
5/80	643
6/90	758
7/85	874
8/95	989
9/90	1105
10	1221
10	1298

DP	1285
KTS	26

Engine Rm	2	26	15	0	0	0	0
Prop/Shaft	4	26	23	13	3	0	0
Boiler Rm	3	26	22	9	0	0	0
			0	0	0	0	0

Standard Turn	
90	
Emergency Turn	
120	

Target Sz	
1	
Searchlights	
Port	Stbd

Speed	00-06 kt	07-11 kt	12-13 kt	14-17 kt	18+ kt	
Increase	7.0	6.0	3.0	2.0	1.0	

Crew

Bridge Command Rating	Flag Command Rating	Damage Control (DCR)
		3

Fuel Code	CS2A

ARMOR	0.82	Actual
1H DECK	1.6	2.0
2H TURRET	0.0	0.0
3H SUPERSTR	0.4	0.4
4V CON	1.6	2.0
5V BELT MID	0.0	0.0
6V BELT END	0.0	0.0
7V BARBETTE	0.0	0.0
8V TURRET	3.3	4.0
9V SUPERSTR	0.4	0.5

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
SECONDARY BATTERY																					
																				B2D	Directed fire as range permits
																				B2L	Local control as range permits
																				B2P	Split fire
																				B2C	Change target
																				B2B	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

Glasgow

CL GREAT BRITAIN 1910 to 1916

0867-0 BRISTOL Class

Displacement	5,000 ts	*Length*	453 ft	Fairfield Co.	
Complement	480	*Beam*	47 ft	*Launched*	09/30/1909
For disposal 05/00/1920		*Draft*	15.5 ft	*Completed*	09/27/1910

SEEKRIEG 5

SHIP LOG SHEET

Version 2/18/2009

2 x 6"/50 BL Mk XI — 16

Max ROF	Range	Shell Size/Weight
6.0 sh/min	13,400 yds 26.8"	6.0" 100.0 lbs.

Fire Control	FC Radar	
1 1S2	None	+ 0

AP	SAP
COM	HE

AA	0.0	Level	S	Ammunition	120 rpg	240

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	12	8	8	5	6	4	5	3
10 - 18	9	5	6	4	4	3	4	2
19 - 27	7	4	5	3	4	2	3	2
28 - 36	6	4	4	2	3	2	2	2
37 - 45	5	3	4	2	3	2	2	1

CPC — 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	7.9	6.7	5.6	4.7	3.9	3.3	2.9							
Rge	S	S	S	M	M	L	L							
H	0.1	0.2	0.3	0.4	0.5	0.7	0.8							
V	5.2	4.2	3.2	2.4	1.9	1.8	1.7							

10 x 4"/50 BL Mk VII — 10

Max ROF	Range	Shell Size/Weight
8.0 sh/min	11,600 yds 23.2"	4.0" 31.0 lbs.

Fire Control	FC Radar	
2 2T2	None	+ 0

AP	SAP
COM	HE

AA	0.0	Level	S	Ammunition	200 rpg	2000

2 1 4 3 6 5

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	8	5	5	3	4	3	3	2
10 - 18	6	4	4	2	3	2	2	1
19 - 27	5	3	3	2	2	1	2	1
28 - 36	4	3	3	2	2	1	2	1
37 - 45	4	2	2	2	2	1	1	1

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	7.8	6.4	5.2	4.2	3.4	2.9								
Rge	S	S	M	M	L	L								
H	0.1	0.1	0.2	0.3	0.4	0.6								
V	3.2	2.2	1.5	1.2	1.1	1.0								

Crew	Sea	BR	Targ Sz	Ops
			1	

AIRCRAFT

Aircraft	0	Catapult	0

P S

TORPEDOES

TT	2	Ammo	4

21" Mk I

Damage Class	F

Settings: 3,000/45; 7,000/30

MINES

RAPID FIRE BATTERIES

RF1	4	3pdr 5cwt Mk I,II			
Max Rg	7,000	14.0"	5	4	
Eff Rg	3,150	6.3"	8	6	

RF						
7	Port	2	2	1	1	0
	Stbd	2	2	1	1	0
AA	Port	0	0	0	0	0
S	Stbd	0	0	0	0	0

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)	900	Oil (ts)	250
Engines	Parsons turbines		
Boilers	12 Yarrow		

Radius (nm/kts)	
5070	16

Search Radar
None
None

ASW MORTARS/ATW			DEPTH CHARGES			
			Rack			
			Ammo			

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Glasgow

TIER	DP
1/70	129
2/80	257
3/75	386
4/85	514
5/80	643
6/90	758
7/85	874
8/95	989
9/90	1105
10	1221
10	1298

DP	1285
KTS	26

Engine Rm	2	26	15	0	0	0	0
Prop/Shaft	4	26	23	13	3	0	0
Boiler Rm	3	26	22	9	0	0	0
			0	0	0	0	0

Standard Turn	
90	
Emergency Turn	
120	

Target Sz	
1	
Searchlights	
Port	Stbd

Speed	00-06 kt	07-11 kt	12-13 kt	14-17 kt	18+ kt	
Increase	7.0	6.0	3.0	2.0	1.0	

Crew

Bridge Command Rating	Flag Command Rating	Damage Control (DCR)
		3

Fuel Code	CS2A

ARMOR	0.82	Actual
1H DECK	1.6	2.0
2H TURRET	0.0	0.0
3H SUPERSTR	0.4	0.4
4V CON	1.6	2.0
5V BELT MID	0.0	0.0
6V BELT END	0.0	0.0
7V BARBETTE	0.0	0.0
8V TURRET	3.3	4.0
9V SUPERSTR	0.4	0.5

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
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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
SECONDARY BATTERY																					
																				B2D	Directed fire as range permits
																				B2L	Local control as range permits
																				B2P	Split fire
																				B2C	Change target
																				B2B	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

Glasgow

CL GREAT BRITAIN 1916 to 1919

0867-1 BRISTOL Class

Displacement	5,000 ts	*Length*	453 ft	Fairfield Co.	
Complement	480	*Beam*	47 ft	*Launched*	09/30/1909
For disposal 05/00/1920		*Draft*	15.5 ft	*Completed*	09/27/1910

SEEKRIEG 5

SHIP LOG SHEET

Version 2/18/2009

2 x 6"/50 BL Mk XI — 16

Max ROF	Range	Shell Size/Weight
6.0 sh/min	16,268 yds 32.5"	6.0" 100.0 lbs.

Fire Control	FC Radar	
1 1Q2	None	+ 0

AP	SAP
COM	HE

AA	0.0	Level	S	Ammunition	120 rpg	240

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	14	9	9	6	7	4	6	4
10 - 18	10	6	7	4	5	3	4	3
19 - 27	8	5	5	3	4	3	3	2
28 - 36	7	4	5	3	3	2	3	2
37 - 45	6	4	4	3	3	2	3	2

CPC — 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	7.9	6.7	5.6	4.7	3.9	3.3	2.5	2.3						
Rge	S	S	S	M	M	L	L	L						
H	0.1	0.2	0.3	0.4	0.5	0.7	1.2	1.4						
V	5.2	4.2	3.2	2.4	1.9	1.8	1.6	1.7						

10 x 4"/50 BL Mk VII — 10

Max ROF	Range	Shell Size/Weight
8.0 sh/min	11,600 yds 23.2"	4.0" 31.0 lbs.

Fire Control	FC Radar	
2 2Q2	None	+ 0

AP	SAP
COM	HE

AA	0.0	Level	S	Ammunition	200 rpg	2000

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	11	7	7	5	5	3	4	3
10 - 18	8	5	5	3	4	2	3	2
19 - 27	6	4	4	3	3	2	3	2
28 - 36	5	3	4	2	3	2	2	1
37 - 45	5	3	3	2	2	2	2	1

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	7.8	6.4	5.2	4.2	3.4	2.9								
Rge	S	S	M	M	L	L								
H	0.1	0.1	0.2	0.3	0.4	0.6								
V	3.2	2.2	1.5	1.2	1.1	1.0								

Crew	Sea	BR	Targ Sz	Ops
			1	

AIRCRAFT

Aircraft	0	Catapult	0

P S

TORPEDOES

TT	2	Ammo	4

21" Mk IV

Damage Class	E

Settings: 8,000/35; 10,000/29; 13,500/25

MINES

RAPID FIRE BATTERIES

RF1	1	3.0"/45 20cwt QF			
Max Rg	10,900	21.8"	7	5	
Eff Rg	4,905	9.8"	11	8	

RF 18						
	Port	1	0	0	0	0
	Stbd	1	0	0	0	0
AA H	Port	1	1	1	0	0
	Stbd	1	1	1	0	0

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)	900	Oil (ts)	250
Engines	Parsons turbines		
Boilers	12 Yarrow		

Radius (nm/kts)	
5070	16

Search Radar
None
None

ASW MORTARS/ATW			DEPTH CHARGES			
			Rack			
			Ammo			

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Glasgow

TIER	DP
1/70	129
2/80	257
3/75	386
4/85	514
5/80	643
6/90	758
7/85	874
8/95	989
9/90	1105
10	1221
10	1298

DP	1285
KTS	26

Engine Rm	2	26	15	0	0	0	0
Prop/Shaft	4	26	23	13	3	0	0
Boiler Rm	3	26	22	9	0	0	0
			0	0	0	0	0

Standard Turn	
90	
Emergency Turn	
120	

Target Sz	
1	
Searchlights	
Port	Stbd

Speed	00-06 kt	07-11 kt	12-13 kt	14-17 kt	18+ kt	
Increase	7.0	6.0	3.0	2.0	1.0	

Crew

Bridge Command Rating	Flag Command Rating	Damage Control (DCR)
		3

Fuel Code	CS2A

ARMOR	0.82	Actual
1H DECK	1.6	2.0
2H TURRET	0.0	0.0
3H SUPERSTR	0.4	0.4
4V CON	1.6	2.0
5V BELT MID	0.0	0.0
6V BELT END	0.0	0.0
7V BARBETTE	0.0	0.0
8V TURRET	3.3	4.0
9V SUPERSTR	0.4	0.5

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
SECONDARY BATTERY																					
																				B2D	Directed fire as range permits
																				B2L	Local control as range permits
																				B2P	Split fire
																				B2C	Change target
																				B2B	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

Gloucester

CL **GREAT BRITAIN** 1910 to 1915

0868-0 BRISTOL Class

Displacement	5,000 ts	*Length*	453 ft	Beardmore	
Complement	480	*Beam*	47 ft	*Launched*	10/28/1909
Sold 05/00/1921		*Draft*	15.5 ft	*Completed*	10/00/1910

SEEKRIEG 5

SHIP LOG SHEET

Version 2/18/2009

2 x 6"/50 BL Mk XI

16

Max ROF	Range	Shell Size/Weight
6.0 sh/min	13,400 yds 26.8"	6.0" 100.0 lbs.

Fire Control			FC Radar	+ 0	AP	SAP
1		1S2	None		COM	HE

AA	0.0	Level	S	Ammunition	120 rpg	240

FIRE CONTROL TABLE								
T Kts	Short		Medium		Long		Extreme	
0 - 9	12	8	8	5	6	4	5	3
10 - 18	9	5	6	4	4	3	4	2
19 - 27	7	4	5	3	4	2	3	2
28 - 36	6	4	4	2	3	2	2	2
37 - 45	5	3	4	2	3	2	2	1

CPC	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	7.9	6.7	5.6	4.7	3.9	3.3	2.9							
Rge	S	S	S	M	M	L	L							
H	0.1	0.2	0.3	0.4	0.5	0.7	0.8							
V	5.2	4.2	3.2	2.4	1.9	1.8	1.7							

10 x 4"/50 BL Mk VII

10

Max ROF	Range	Shell Size/Weight
8.0 sh/min	11,600 yds 23.2"	4.0" 31.0 lbs.

Fire Control			FC Radar	+ 0	AP	SAP
2		2T2	None		COM	HE

AA	0.0	Level	S	Ammunition	200 rpg	2000

FIRE CONTROL TABLE								
T Kts	Short		Medium		Long		Extreme	
0 - 9	8	5	5	3	4	3	3	2
10 - 18	6	4	4	2	3	2	2	1
19 - 27	5	3	3	2	2	1	2	1
28 - 36	4	3	3	2	2	1	2	1
37 - 45	4	2	2	2	2	1	1	1

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	7.8	6.4	5.2	4.2	3.4	2.9								
Rge	S	S	M	M	L	L								
H	0.1	0.1	0.2	0.3	0.4	0.6								
V	3.2	2.2	1.5	1.2	1.1	1.0								

Crew	Sea	BR	Targ Sz	Ops
			1	

AIRCRAFT

Aircraft	0			Catapult	0	

P S

TORPEDOES

TT	2	Ammo	4

21" Mk I

Damage Class	F

Settings

3,000/45

7,000/30

MINES

RAPID FIRE BATTERIES

RF1	4	3pdr 5cwt Mk I,II			
Max Rg	7,000	14.0"	5	4	
Eff Rg	3,150	6.3"	8	6	

RF						
7	Port	2	2	1	1	0
	Stbd	2	2	1	1	0
AA	Port	0	0	0	0	0
S	Stbd	0	0	0	0	0

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)	900	Oil (ts)	250
Engines	Parsons turbines		
Boilers	12 Yarrow		

Radius (nm/kts)	
5070	16

Search Radar
None
None

ASW MORTARS/ATW			DEPTH CHARGES			
			Rack			
			Ammo			

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Gloucester

TIER	DP
1/70	129
2/80	257
3/75	386
4/85	514
5/80	643
6/90	758
7/85	874
8/95	989
9/90	1105
10	1221
10	1298

DP	1285
KTS	26

Engine Rm	2	26	15	0	0	0	0
Prop/Shaft	4	26	23	13	3	0	0
Boiler Rm	3	26	22	9	0	0	0
			0	0	0	0	0

Standard Turn	
90	
Emergency Turn	
120	

Target Sz	
1	
Searchlights	
Port	Stbd

Speed	00-06 kt	07-11 kt	12-13 kt	14-17 kt	18+ kt	
Increase	7.0	6.0	3.0	2.0	1.0	

Crew

Bridge Command Rating				

Flag Command Rating				

Damage Control (DCR)				
3				

Fuel Code	CS2A

ARMOR	0.82	Actual
1H DECK	1.6	2.0
2H TURRET	0.0	0.0
3H SUPERSTR	0.4	0.4
4V CON	1.6	2.0
5V BELT MID	0.0	0.0
6V BELT END	0.0	0.0
7V BARBETTE	0.0	0.0
8V TURRET	3.3	4.0
9V SUPERSTR	0.4	0.5

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
SECONDARY BATTERY																					
																				B2D	Directed fire as range permits
																				B2L	Local control as range permits
																				B2P	Split fire
																				B2C	Change target
																				B2B	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

Gloucester

CL **GREAT BRITAIN** 1916 to 1919

0868-1 BRISTOL Class

Displacement	5,000 ts	*Length*	453 ft	Beardmore	
Complement	480	*Beam*	47 ft	*Launched*	10/28/1909
Sold 05/00/1921		*Draft*	15.5 ft	*Completed*	10/00/1910

SEEKRIEG 5

SHIP LOG SHEET

Version 2/18/2009

2 x 6"/50 BL Mk XI — 16

Max ROF	Range	Shell Size/Weight
6.0 sh/min	16,268 yds 32.5"	6.0" 100.0 lbs.

Fire Control	FC Radar	
1 1Q2	None	+ 0

AP	SAP
COM	HE

AA	0.0	Level	S	Ammunition	120 rpg	240

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	14	9	9	6	7	4	6	4
10 - 18	10	6	7	4	5	3	4	3
19 - 27	8	5	5	3	4	3	3	2
28 - 36	7	4	5	3	3	2	3	2
37 - 45	6	4	4	3	3	2	3	2

CPC — 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	7.9	6.7	5.6	4.7	3.9	3.3	2.5	2.3						
Rge	S	S	S	M	M	L	L	L						
H	0.1	0.2	0.3	0.4	0.5	0.7	1.2	1.4						
V	5.2	4.2	3.2	2.4	1.9	1.8	1.6	1.7						

10 x 4"/50 BL Mk VII — 10

Max ROF	Range	Shell Size/Weight
8.0 sh/min	11,600 yds 23.2"	4.0" 31.0 lbs.

Fire Control	FC Radar	
2 2Q2	None	+ 0

AP	SAP
COM	HE

AA	0.0	Level	S	Ammunition	200 rpg	2000

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	11	7	7	5	5	3	4	3
10 - 18	8	5	5	3	4	2	3	2
19 - 27	6	4	4	3	3	2	3	2
28 - 36	5	3	4	2	3	2	2	1
37 - 45	5	3	3	2	2	2	2	1

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	7.8	6.4	5.2	4.2	3.4	2.9								
Rge	S	S	M	M	L	L								
H	0.1	0.1	0.2	0.3	0.4	0.6								
V	3.2	2.2	1.5	1.2	1.1	1.0								

Crew	Sea	BR	Targ Sz	Ops
			1	

AIRCRAFT

Aircraft	0	Catapult	0

P S

TORPEDOES

TT	2	Ammo	4

21" Mk IV

Damage Class	E

Settings

8,000/35

10,000/29

13,500/25

MINES

RAPID FIRE BATTERIES

RF1	1	3.0"/45 20cwt QF			
Max Rg	10,900	21.8"	7	5	
Eff Rg	4,905	9.8"	11	8	

RF						
18	Port	1	0	0	0	0
	Stbd	1	0	0	0	0
AA	Port	1	1	1	0	0
H	Stbd	1	1	1	0	0

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)	900	Oil (ts)	250
Engines	Parsons turbines		
Boilers	12 Yarrow		

Radius (nm/kts)	
5070	16

Search Radar
None
None

ASW MORTARS/ATW			DEPTH CHARGES			
			Rack			
			Ammo			

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Gloucester

TIER	DP
1/70	129
2/80	257
3/75	386
4/85	514
5/80	643
6/90	758
7/85	874
8/95	989
9/90	1105
10	1221
10	1298

DP	1285
KTS	26

Engine Rm	2	26	15	0	0	0	0
Prop/Shaft	4	26	23	13	3	0	0
Boiler Rm	3	26	22	9	0	0	0
			0	0	0	0	0

Standard Turn	
90	
Emergency Turn	
120	

Target Sz	
1	
Searchlights	
Port	Stbd

Speed	00-06 kt	07-11 kt	12-13 kt	14-17 kt	18+ kt	
Increase	7.0	6.0	3.0	2.0	1.0	

Crew

Bridge Command Rating				

Flag Command Rating				

Damage Control (DCR)				
3				

Fuel Code	CS2A

ARMOR	0.82	Actual
1H DECK	1.6	2.0
2H TURRET	0.0	0.0
3H SUPERSTR	0.4	0.4
4V CON	1.6	2.0
5V BELT MID	0.0	0.0
6V BELT END	0.0	0.0
7V BARBETTE	0.0	0.0
8V TURRET	3.3	4.0
9V SUPERSTR	0.4	0.5

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
SECONDARY BATTERY																					
																				B2D	Directed fire as range permits
																				B2L	Local control as range permits
																				B2P	Split fire
																				B2C	Change target
																				B2B	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

Liverpool

CL **GREAT BRITAIN** 1910 to 1915

0869-0 BRISTOL Class

Displacement	5,000 ts	*Length*	453 ft	Vickers	
Complement	480	*Beam*	47 ft	*Launched*	10/30/1909
Sold 05/00/1921		*Draft*	15.5 ft	*Completed*	10/00/1910

SEEKRIEG 5

SHIP LOG SHEET

Version 2/18/2009

2 x 6"/50 BL Mk XI — 16

Max ROF	Range	Shell Size/Weight
6.0 sh/min	13,400 yds 26.8"	6.0" 100.0 lbs.

Fire Control	FC Radar	
1 1S2	None	+ 0

AP	SAP
COM	HE

AA	0.0	Level	S	Ammunition	120 rpg	240

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	12	8	8	5	6	4	5	3
10 - 18	9	5	6	4	4	3	4	2
19 - 27	7	4	5	3	4	2	3	2
28 - 36	6	4	4	2	3	2	2	2
37 - 45	5	3	4	2	3	2	2	1

CPC — 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	7.9	6.7	5.6	4.7	3.9	3.3	2.9							
Rge	S	S	S	M	M	L	L							
H	0.1	0.2	0.3	0.4	0.5	0.7	0.8							
V	5.2	4.2	3.2	2.4	1.9	1.8	1.7							

10 x 4"/50 BL Mk VII — 10

Max ROF	Range	Shell Size/Weight
8.0 sh/min	11,600 yds 23.2"	4.0" 31.0 lbs.

Fire Control	FC Radar	
2 2T2	None	+ 0

AP	SAP
COM	HE

AA	0.0	Level	S	Ammunition	200 rpg	2000

2 1 4 3 6 5

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	8	5	5	3	4	3	3	2
10 - 18	6	4	4	2	3	2	2	1
19 - 27	5	3	3	2	2	1	2	1
28 - 36	4	3	3	2	2	1	2	1
37 - 45	4	2	2	2	2	1	1	1

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	7.8	6.4	5.2	4.2	3.4	2.9								
Rge	S	S	M	M	L	L								
H	0.1	0.1	0.2	0.3	0.4	0.6								
V	3.2	2.2	1.5	1.2	1.1	1.0								

Crew	Sea	BR	Targ Sz	Ops
			1	

AIRCRAFT

Aircraft	0			Catapult	0	

P S

TORPEDOES

TT	2	Ammo	4

21" Mk I

Damage Class	F

Settings

3,000/45

7,000/30

MINES

RAPID FIRE BATTERIES

RF1	4	3pdr 5cwt Mk I,II			
Max Rg	7,000	14.0"	5	4	
Eff Rg	3,150	6.3"	8	6	

RF						
7	Port	2	2	1	1	0
	Stbd	2	2	1	1	0
AA	Port	0	0	0	0	0
S	Stbd	0	0	0	0	0

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)	900	Oil (ts)	250
Engines	Parsons turbines		
Boilers	12 Yarrow		

Radius (nm/kts)	
5070	16

Search Radar
None
None

ASW MORTARS/ATW			DEPTH CHARGES			
			Rack			
			Ammo			

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Liverpool

TIER	DP
1/70	129
2/80	257
3/75	386
4/85	514
5/80	643
6/90	758
7/85	874
8/95	989
9/90	1105
10	1221
10	1298

DP	1285
KTS	26

Engine Rm	2	26	15	0	0	0	0
Prop/Shaft	4	26	23	13	3	0	0
Boiler Rm	3	26	22	9	0	0	0
			0	0	0	0	0

Standard Turn	
90	
Emergency Turn	
120	

Target Sz	
1	
Searchlights	
Port	Stbd

Speed	00-06 kt	07-11 kt	12-13 kt	14-17 kt	18+ kt	
Increase	7.0	6.0	3.0	2.0	1.0	

Crew

Bridge Command Rating	Flag Command Rating	Damage Control (DCR)
		3

Fuel Code	CS2A

ARMOR	0.82	Actual
1H DECK	1.6	2.0
2H TURRET	0.0	0.0
3H SUPERSTR	0.4	0.4
4V CON	1.6	2.0
5V BELT MID	0.0	0.0
6V BELT END	0.0	0.0
7V BARBETTE	0.0	0.0
8V TURRET	3.3	4.0
9V SUPERSTR	0.4	0.5

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
SECONDARY BATTERY																					
																				B2D	Directed fire as range permits
																				B2L	Local control as range permits
																				B2P	Split fire
																				B2C	Change target
																				B2B	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

Liverpool

CL GREAT BRITAIN 1916 to 1919

0869-1 BRISTOL Class

Displacement	5,000 ts	*Length*	453 ft	Vickers	
Complement	480	*Beam*	47 ft	*Launched*	10/30/1909
Sold 05/00/1921		*Draft*	15.5 ft	*Completed*	10/00/1910

SEEKRIEG 5

SHIP LOG SHEET

Version 2/18/2009

2 x 6"/50 BL Mk XI — 16

Max ROF	Range	Shell Size/Weight
6.0 sh/min	16,268 yds 32.5"	6.0" 100.0 lbs.

Fire Control	FC Radar	
1 1Q2	None	+ 0

AP	SAP
COM	HE

AA	0.0	Level	S	Ammunition	120 rpg	240

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	14	9	9	6	7	4	6	4
10 - 18	10	6	7	4	5	3	4	3
19 - 27	8	5	5	3	4	3	3	2
28 - 36	7	4	5	3	3	2	3	2
37 - 45	6	4	4	3	3	2	3	2

CPC — 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	7.9	6.7	5.6	4.7	3.9	3.3	2.5	2.3						
Rge	S	S	S	M	M	L	L	L						
H	0.1	0.2	0.3	0.4	0.5	0.7	1.2	1.4						
V	5.2	4.2	3.2	2.4	1.9	1.8	1.6	1.7						

10 x 4"/50 BL Mk VII — 10

Max ROF	Range	Shell Size/Weight
8.0 sh/min	11,600 yds 23.2"	4.0" 31.0 lbs.

Fire Control	FC Radar	
2 2Q2	None	+ 0

AP	SAP
COM	HE

AA	0.0	Level	S	Ammunition	200 rpg	2000

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	11	7	7	5	5	3	4	3
10 - 18	8	5	5	3	4	2	3	2
19 - 27	6	4	4	3	3	2	3	2
28 - 36	5	3	4	2	3	2	2	1
37 - 45	5	3	3	2	2	2	2	1

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	7.8	6.4	5.2	4.2	3.4	2.9								
Rge	S	S	M	M	L	L								
H	0.1	0.1	0.2	0.3	0.4	0.6								
V	3.2	2.2	1.5	1.2	1.1	1.0								

Crew	Sea	BR	Targ Sz	Ops
			1	

AIRCRAFT

Aircraft	0	Catapult	0

P S

TORPEDOES

TT	2	Ammo	4

21" Mk IV

Damage Class	E

Settings: 8,000/35; 10,000/29; 13,500/25

MINES

RAPID FIRE BATTERIES

RF1	1	3.0"/45 20cwt QF			
Max Rg	10,900	21.8"	7	5	
Eff Rg	4,905	9.8"	11	8	

RF						
18	Port	1	0	0	0	0
	Stbd	1	0	0	0	0
AA	Port	1	1	1	0	0
H	Stbd	1	1	1	0	0

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)	900	Oil (ts)	250
Engines	Parsons turbines		
Boilers	12 Yarrow		

Radius (nm/kts)	
5070	16

Search Radar
None
None

ASW MORTARS/ATW			DEPTH CHARGES			
			Rack			
			Ammo			

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Liverpool

TIER	DP
1/70	129
2/80	257
3/75	386
4/85	514
5/80	643
6/90	758
7/85	874
8/95	989
9/90	1105
10	1221
10	1298

DP	1285
KTS	26

Engine Rm	2	26	15	0	0	0	0
Prop/Shaft	4	26	23	13	3	0	0
Boiler Rm	3	26	22	9	0	0	0
			0	0	0	0	0

Standard Turn	
90	
Emergency Turn	
120	

Target Sz	
1	
Searchlights	
Port	Stbd

Speed	00-06 kt	07-11 kt	12-13 kt	14-17 kt	18+ kt	
Increase	7.0	6.0	3.0	2.0	1.0	

Crew

Bridge Command Rating	Flag Command Rating	Damage Control (DCR)
		3

Fuel Code	CS2A

ARMOR	0.82	Actual
1H DECK	1.6	2.0
2H TURRET	0.0	0.0
3H SUPERSTR	0.4	0.4
4V CON	1.6	2.0
5V BELT MID	0.0	0.0
6V BELT END	0.0	0.0
7V BARBETTE	0.0	0.0
8V TURRET	3.3	4.0
9V SUPERSTR	0.4	0.5

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)
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																				VL	Prepare to launch aircraft
																				VX	Launch aircraft
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																				B1D	Directed fire as range permits
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																				B2L	Local control as range permits
																				B2P	Split fire
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																				B2B	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

Newcastle

CL **GREAT BRITAIN** 1910 to 1915

0870-0 BRISTOL Class

Displacement	5,000 ts	*Length*	453 ft	Elswick	
Complement	480	*Beam*	47 ft	*Launched*	11/25/1909
Sold 05/00/1921		*Draft*	15.5 ft	*Completed*	09/00/1910

SEEKRIEG 5

SHIP LOG SHEET

Version 2/18/2009

2 x 6"/50 BL Mk XI — 16

Max ROF	Range	Shell Size/Weight
6.0 sh/min	13,400 yds 26.8"	6.0" 100.0 lbs.

Fire Control	FC Radar	
1 1S2	None	+ 0

AP	SAP
COM	HE

AA	0.0	Level	S	Ammunition	120 rpg	240

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	12	8	8	5	6	4	5	3
10 - 18	9	5	6	4	4	3	4	2
19 - 27	7	4	5	3	4	2	3	2
28 - 36	6	4	4	2	3	2	2	2
37 - 45	5	3	4	2	3	2	2	1

CPC — 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	7.9	6.7	5.6	4.7	3.9	3.3	2.9							
Rge	S	S	S	M	M	L	L							
H	0.1	0.2	0.3	0.4	0.5	0.7	0.8							
V	5.2	4.2	3.2	2.4	1.9	1.8	1.7							

10 x 4"/50 BL Mk VII — 10

Max ROF	Range	Shell Size/Weight
8.0 sh/min	11,600 yds 23.2"	4.0" 31.0 lbs.

Fire Control	FC Radar	
2 2T2	None	+ 0

AP	SAP
COM	HE

AA	0.0	Level	S	Ammunition	200 rpg	2000

2 1 4 3 6 5

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	8	5	5	3	4	3	3	2
10 - 18	6	4	4	2	3	2	2	1
19 - 27	5	3	3	2	2	1	2	1
28 - 36	4	3	3	2	2	1	2	1
37 - 45	4	2	2	2	2	1	1	1

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	7.8	6.4	5.2	4.2	3.4	2.9								
Rge	S	S	M	M	L	L								
H	0.1	0.1	0.2	0.3	0.4	0.6								
V	3.2	2.2	1.5	1.2	1.1	1.0								

Crew	Sea	BR	Targ Sz	Ops
			1	

AIRCRAFT

Aircraft	0	Catapult	0

P S

TORPEDOES

TT	2	Ammo	4

21" Mk I

Damage Class	F

Settings: 3,000/45; 7,000/30

MINES

RAPID FIRE BATTERIES

RF1	4	3pdr 5cwt Mk I,II			
Max Rg	7,000	14.0"	5	4	
Eff Rg	3,150	6.3"	8	6	

RF						
7	Port	2	2	1	1	0
	Stbd	2	2	1	1	0
AA	Port	0	0	0	0	0
S	Stbd	0	0	0	0	0

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)	900	Oil (ts)	250
Engines	Parsons turbines		
Boilers	12 Yarrow		

Radius (nm/kts)	
5070	16

Search Radar
None
None

ASW MORTARS/ATW			DEPTH CHARGES			
			Rack			
			Ammo			

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Newcastle

TIER	DP
1/70	129
2/80	257
3/75	386
4/85	514
5/80	643
6/90	758
7/85	874
8/95	989
9/90	1105
10	1221
10	1298

DP	1285
KTS	26

Engine Rm	2	26	15	0	0	0	0
Prop/Shaft	4	26	23	13	3	0	0
Boiler Rm	3	26	22	9	0	0	0
			0	0	0	0	0

Standard Turn	
90	
Emergency Turn	
120	

Target Sz	
1	
Searchlights	
Port	Stbd

Speed	00-06 kt	07-11 kt	12-13 kt	14-17 kt	18+ kt	
Increase	7.0	6.0	3.0	2.0	1.0	

Crew

Bridge Command Rating	Flag Command Rating	Damage Control (DCR)
		3

Fuel Code	CS2A

ARMOR	0.82	Actual
1H DECK	1.6	2.0
2H TURRET	0.0	0.0
3H SUPERSTR	0.4	0.4
4V CON	1.6	2.0
5V BELT MID	0.0	0.0
6V BELT END	0.0	0.0
7V BARBETTE	0.0	0.0
8V TURRET	3.3	4.0
9V SUPERSTR	0.4	0.5

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
SECONDARY BATTERY																					
																				B2D	Directed fire as range permits
																				B2L	Local control as range permits
																				B2P	Split fire
																				B2C	Change target
																				B2B	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

Newcastle

CL GREAT BRITAIN 1916 to 1919

0870-1 BRISTOL Class

Displacement	5,000 ts	*Length*	453 ft	Elswick	
Complement	480	*Beam*	47 ft	*Launched*	11/25/1909
Sold 05/00/1921		*Draft*	15.5 ft	*Completed*	09/00/1910

SEEKRIEG 5

SHIP LOG SHEET

Version 2/18/2009

2 x 6"/50 BL Mk XI — 16

Max ROF	Range	Shell Size/Weight
6.0 sh/min	16,268 yds 32.5"	6.0" 100.0 lbs.

Fire Control	FC Radar	
1 1Q2	None	+ 0

AP	SAP
COM	HE

AA	0.0	Level	S	Ammunition	120 rpg	240

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	14	9	9	6	7	4	6	4
10 - 18	10	6	7	4	5	3	4	3
19 - 27	8	5	5	3	4	3	3	2
28 - 36	7	4	5	3	3	2	3	2
37 - 45	6	4	4	3	3	2	3	2

CPC — 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	7.9	6.7	5.6	4.7	3.9	3.3	2.5	2.3						
Rge	S	S	S	M	M	L	L	L						
H	0.1	0.2	0.3	0.4	0.5	0.7	1.2	1.4						
V	5.2	4.2	3.2	2.4	1.9	1.8	1.6	1.7						

10 x 4"/50 BL Mk VII — 10

Max ROF	Range	Shell Size/Weight
8.0 sh/min	11,600 yds 23.2"	4.0" 31.0 lbs.

Fire Control	FC Radar	
2 2Q2	None	+ 0

AP	SAP
COM	HE

AA	0.0	Level	S	Ammunition	200 rpg	2000

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	11	7	7	5	5	3	4	3
10 - 18	8	5	5	3	4	2	3	2
19 - 27	6	4	4	3	3	2	3	2
28 - 36	5	3	4	2	3	2	2	1
37 - 45	5	3	3	2	2	2	2	1

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	7.8	6.4	5.2	4.2	3.4	2.9								
Rge	S	S	M	M	L	L								
H	0.1	0.1	0.2	0.3	0.4	0.6								
V	3.2	2.2	1.5	1.2	1.1	1.0								

Crew	Sea	BR	Targ Sz	Ops
			1	

AIRCRAFT

Aircraft	0	Catapult	0

P S

TORPEDOES

TT	2	Ammo	4

21" Mk IV

Damage Class	E

Settings: 8,000/35; 10,000/29; 13,500/25

MINES

RAPID FIRE BATTERIES

RF1	1	3.0"/45 20cwt QF			
Max Rg	10,900	21.8"	7	5	
Eff Rg	4,905	9.8"	11	8	

RF 18						
	Port	1	0	0	0	0
	Stbd	1	0	0	0	0
AA H	Port	1	1	1	0	0
	Stbd	1	1	1	0	0

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)	900	Oil (ts)	250
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None
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ASW MORTARS/ATW			DEPTH CHARGES			
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Prop/Shaft	4	26	23	13	3	0	0
Boiler Rm	3	26	22	9	0	0	0
			0	0	0	0	0

Standard Turn	
90	
Emergency Turn	
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Target Sz	
1	
Searchlights	
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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