#### **CASABLANCA**

#### 0815 8 November 1942

Background: The naval action fought off Casablanca between U.S. and Vichy French forces helped to seal the doom of German and Italian forces in North Africa, and so move the Mediterranean naval campaign closer to Allied victory. This engagement resulted from the landings of U.S. troops in the Vichy-controlled colony of Morrocco. The Allies hoped that Vichy would not resist the North African landings, but the French decided to fight at each point.

There was a concentration of French naval strength at Casablanca, just south of one of the Allied landing areas. The French admiral commanding directed these forces to close the Allied transports and attempt to disrupt the landing operations. Screened to some degree by shore batteries, French surface forces bagan to sortie at 0815.

Forces:			
French Navy (Contre-Amiral Gervais de Lafond)	Division 1	Milan Albatros	(Aigle - flag) (Aigle)
	Division 2	L'Alcyon Brestois Boulonnais Fougueux Frondeur	(L'Adroit - flag) (L'Adroit) (L'Adroit) (L'Adroit) (L'Adroit)
	Division 3	Primauguet	(Duguay-Trouin - flag)
United States Navy (Rear Admiral H. Kent Hewitt)	Division 1	Massachusetts Tuscaloosa Wichita	(South Dakota - flag) (New Orleans) (Wichita)
	Division 2	Wainwright Mayrant Rhind Jenkins	(Sims - flag) (Benham) (Benham) (Fletcher)
	Division 3	Augusta Brooklyn	(Northampton - flag) (Brooklyn)
	Division 4	Wilkes Swanson Bristol Ludlow	(Livermore - flag) (Livermore) (Bristol) (Livermore)
	Division 5	Winsooki Stanton Ancon Thurston Hewes Bliss Rutledge Scott Procyon Biddle Oberon Arcturus Wood Jefferson Carroll Dickman	(Large Tanker) (Large Merchantman)

#### Set-up:

[Note: North is really north-northwest, but represented as north for simplicity's sake.]



The French ships all begin in Casablanca harbor, 48 inches from the east edge. One French division may exit the harbor each turn.

U.S. Division 3 begins in line ahead formation with Augusta leading, heading due east (course 090). Augusta is 22 inches from the east edge and 5 inches from the south edge.

The individual ships of U.S. Division 4 are spread in an east-west line, in order with Wilkes east most. All are 8 inches from the south edge; Wilkes is 20 inches west of the east edge with the other destroyers

extending beyond her at 4 inch intervals. All are steaming due west (course 270).

U.S. Division 5 consists of anchored transports engaged in unloading troops. They cannot move during the course of the scenario. They are in a box formation of 4 rows and 4 columns with 2 inches of separation between ships in each direction, in any order desired by the U.S.N. player. The southeastern-most ship is 10 inches from the south edge and 17 inches from the east edge.

The south edge is land. The harbor and all shore batteries are located there.

#### Victory Conditions:

- 1 point per destroyer sunk,
- 2 points per light cruiser sunk,
- 3 points per heavy cruiser sunk,
- 4 points per battleship or merchantman sunk.

#### Special Rules

- 1. Massachusetts, Brooklyn and Jenkins have SG radar and Mark 8 fire control radar. All other U.S. ships have SC radar and Mark 3 or Mark 4 fire control radar.
- Visibility is Level -1 with a base of 18 inches, daylight with some haze.
- 3. U.S. Divisions 1 and 2 do not begin on the playing surface. They both enter on the north edge within 12 inches of the west edge on a 1D6 roll of 1, in the precise location picked and any formation desired by the U.S.N. player. Roll for their arrival each turn before movement is plotted.
- 4. French submarines are present in the area and can make attacks in the course of the scenario. Each attack is made with 4 torpedoes at a range of 3 inches, at a 90 degree target angle (although the angle can change if the target turns). The torpedoes have a range of 7 inches at a speed of 5.50, and are launched without benefit of fire control. An attack occurs on a 2D6 roll of 4 or less, rolled each turn after movement is plotted. Only battleships and cruisers may be attacked, the target being selected randomly.
- 5. As the scenario begins, the French player has 2 shore batteries in action and 2 more that might come into action. The 2 in action are both located at El Hank, 55 inches from the east edge. Battery 1 consists of 4 7.6 inch guns with a range of 13 inches. Battery 2 has 4 5.4 inch guns with a range of 21 inches. Battery 3, at Fedhala, has 3 3.9 inch guns with a range of 17 inches. It is 26 inches from the east edge. Battery 4, with 4 5.4 inch guns having a range of 21 inches, is at Sherki, 18 inches from the east edge. Each battery has a size of -6 and an armor rating of -1. Hits on batteries use this hit location table:

Die Roll:	1-2	3-5	6
Location	Fire Control	Gun	Magazine

Hits on batteries can be repaired or made permanent just like hits on ships. Fires and explosions are handled in the same way.

6. Dive bombers from the carrier Ranger operated in the area during this engagement. On a 2D6 roll of **4** or less, 6 of these aircraft attack 1 French ship. The American player chooses the target. The roll is made each turn (and any target announced) before movement plotting each turn. Ignore AA gunnery for the purpose of these attacks. Each plane carries one 500 lb bomb and has a 0 crew quality modifier. Check the bomb type for each hit by rolling 1D6:

Die Roll:	Bomb Type:
1-4	HEI
5-6	SAP

Outcome: The French made a run for the transport area, but were headed off by Augusta and Brooklyn. They then laid smoke and dodged in and out of the screen, firing intermittently. Fougueux became the first French casualty, when Massachusetts found her range. Boulonnais followed, and Brestois, Primauguet, Milan and Albatros were all seriously damaged. The only damage that the French did was to Brooklyn, which suffered a single hit.

	Dougay-Trouin														
Navy Class		French Nav Light cruise	•		<u>Dat</u>	<u>e</u> 1	940								
Surface Ar Main Batte Torpedoes Maximum	ry: :	6.1 inch gur 21 inch torp 8		n turrets I triple mounts	23 i 7 in	iges nches ches at 5.5 nches at 3		<u>Directors</u> Fore and aft Port and starboard							
Gun: 5.9 inch tw	in	5" A/12	10" 8/10	15" 3/8	19" 2/6	23" 1/3	Power 5	Relia B							
<u>Speed</u>	4.00"	8 boile	ers	4 engines	<u>Tor</u>	edo Hits	17.7"-18": ±1	20.5"-22.5": ±2	24": ±4						
<u>Flotation</u>	Total: 60	DIW:	30	Sinking: 20											

## **Armament Arrangement Notes** Class of 3, including Lamotte-Picquet and Primaguet. Secondary armament of 3 inch guns not effective against surface targets.

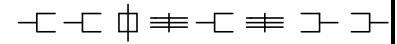
#### Hits Fuel Oil 1 11-12 Void Fuel Oil 2 13-14 Void Main Magazine A Main A 15-21 Main Magazine B: 22-24 Main B 25 Fuel Oil 3 Bridge, AAMGs Fuel Oil 3 26 Bridge, Forward Main Director Boiler Room 1 31-32 Funnel Boiler Room 1 33 Secondary 1 or 2 Boiler Room 2 Port or StarboardSecondary Director 34 Boiler Room 2 35 Secondary 3 or 4 Boiler Room 2 Secondary Magazine 36 Funnel 41-42 Funnel, Torpedo 1 or 2 Engine Room 1 Torpedo 1 or 2, Searchlight 1 or 2 43 Engine Room 1 44 AAMGs Engine Room 1 45 Torpedo 3 or 4 Engine Room 2 46-51 Torpedo 3 or 4 Engine Room 2 52 Aft Main Director Main Magazine X Main Magazine Y 53-55 Main X Main Y 56-61 Propshaft 1 or 2, Fuel Oil 4 Catapult 63-64 Propshaft 3 or 4, Void 65 Catapult, Aircraft

Steering 66 Catapult, Aircraft

FO1	FO2	MM	MM	FO3	BR1	BR2	SM	ER1	ER2	MM	MM	FO4	V	ST
1FP	2FP	Α	В	2FP	B1,2	B5,6	2FP	E1	E3	Χ	Υ	2FP	2FP	1FP
		2FP	2FP		B3,4	B7,8		E2	E4	2FP	2FP			
					10FP	10FP		10FP	10FP					

#### Guepard/Aigle/Vauquelin 1942 French Navy Navy **Date** Destroyer (Contre Torpilleur) None Class <u>Armor</u> Surface Armament Ranges **Directors** Main Battery: 5.4 inch guns in 5 single mounts Fore 17 inches Torpedoes: 21.6 inch torpedoes in 2 triple mounts 7 inches at 5.50" Port and starboard Maximum Value: 13 inches at 3.50" 5" Gun: 10" 15" 17" Power Relia 5.4 inch single A/9 1/0 8/6 2/3 В Speed 4.50" 4 boilers 2 engines Torpedo Hits 17.7"-18": ±1 20.5"-22.5": ±3 24": ±5 Flotation Total: 30 DIW: 15 Sinking: 20

#### **Armament Arrangement**



#### **Notes**

- Large French destroyers designed as destroyer killers.
- Six ships in each class, including Guepard and Valmy (Guepard class), Milan, Eprevier and Albatros (Aigle class) and Chevalier Paul (Vauquelin class).

#### Hits

Fuel Oil 1	11-13	Void
Fuel Oil 1	15-21	Main A
Forward Main Magazine	22-24	Main B
Fuel Oil 2	25	Bridge
Fuel Oil 2	26	Bridge, Main Director
Fuel Oil 2	31	Search Radar
Boiler Room 1	32	Funnel
Boiler Room 1	33	Torpedo A
Boiler Room 2	34-35	Torpedo A
Engine Room 1	36	Funnel
Engine Room 1	41-42	AAMGs
Boiler Room 3	43	Main M
Boiler Room 3	44	Main M
Boiler Room 4	45	Main M
Boiler Room 4	46	Searchlight
Engine Room 2	51-53	Torpedo B
Fuel Oil 3	54-55	Main X
Aft Magazine	56	Main X
Aft Magazine	61-62	Main Y
Fuel Oil 4, Propshaft 1 or 2	63	Main Y
Fuel Oil 4, Propshaft 1 or 2	64	Void
Steering	65-66	Steering

	FO1 1FP	FM AB	FO2 3FP	BR1 B1	BR2 B2	ER1 F1	BR3 B3	BR4 B4	ER2	FO3 1FP	AM MXY	FO4 1FP	ST 1FP
	IITT	1FP	SIT	3FP	3FP	5FP	3FP	3FP	4FP	III	1FP	III	IIF
L													

### L'Adroit Date

French Navy Navy Destroyer (Torpilleur d"Escadre) Class

Surface Armament

Ranges Directors Main Battery: 5.1 inch guns in 3 single mounts 20 inches Fore Torpedoes: 21.6 inch torpedoes in 1 triple mount 7 inches at 5.50" Aft 13 inches at 3.50"

Maximum Value:

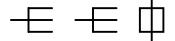
5" 15" 17" Gun: 10" Power Relia 5.1 inch single A/10 2/2 1/-2 8/5 4 В

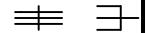
2 engines Speed 4.00 3 boilers Torpedo Hits 17.7"-18": ±2 20.5"-22.5": ±4 24": ±6

1942

Total: 26 DIW: 13 Sinking: 18 Flotation

#### **Armament Arrangement**





#### Notes

- Smaller French destroyer class meant for use in a torpedo boat role.
- Reflects wartime removal of one 5.1 inch gun and one torpedo mount in favor of increased AAMGs
- Class of 14 included Boulonnais, Fougueux, Brestois and Frondeur.

#### Hits

Fuel Oil 1 Forward Void 11-13 Forward Magazine Main A 14-16

Forward Magazine 21-23 Main B Fuel Oil 2 Bridge

24 Bridge, Main Director Boiler Room 1 25

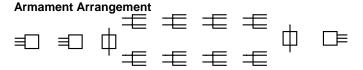
Boiler Room 1 26-31 Funnel Boiler Room 1 Searchlight 32-33 Boiler Room 2 34-35 **AAMGs** Boiler Room 2 36 Funnel **Engine Room** 41-44 Torpedo A Engine Room 45-52 AAMGs Aft Magazine 53-56 Main X

Fuel Oil 3, Propshaft 1 or 2 61-64 Aft Void

65-66 Steering Steering

FO1 1FP	PM AB 1FP	FO2 FO 2FP	BR1 B1 B2	BR2 B3 3FP	ER E1,E2 8FP	PM Y 2FP	FO3 2FP	ST 1FP
			6FP					

	South Dakota													
<u>Navy</u> <u>Class</u>		United St Battleship	ates Navy			<u>Date</u>	1942							
Surface Armament Main Battery: Secondary Battery:			uns in 3 trip ns in 8 twir			Ranges 37 inches 18 inches		Ī	<u>Directors</u> Fore and aft Fore and aft					
Gun: 16 inch triple 5 inch twin	е	5" A/9 A/13	10" 8/9 8/9	15" 6/9 2/5	20" 5/8 1/1	25" 4/7	30" 3/3	35" 2/2	37" 1/1	Power 8 4	Relia B A			
<u>Speed</u>	3.50 inch	nes 8 b	oilers	4 engine	es	Torpedo H	<u>its</u> 17.7"	-18": 50%	20.5"-22.5	": ±0 24'	': ±1			
<u>Flotation</u>	Total: 64	DIV	V: 32	Sinking:	42	<u>Bulge</u>	-1 for	torpedo hi	ts in way of I	ocations 26	-53			



Fuel Oil 4

65-66

<u>Notes</u>

-- Four ships in class: South Dakota, Indiana, Massachusetts, Alabama.

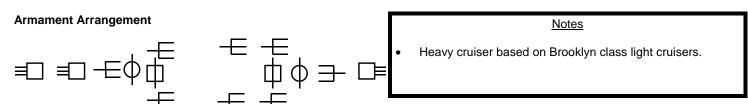
Hits

Fuel Oil 1 11-12 Void Fuel Oil 2 13-14 **AAMGs** Main Magazine A 15-21 Main A Main Magazine B 22-24 Main B Plot/CIC 25 Bridge Forward Primary Director Boiler Room 2 or Engine Room 1 26 Boiler Room 2 or Engine Room 1 31 Forward Secondary Director Boiler Room 4 or Engine Room 1 32 Bridge Boiler Room 4 or Engine Room 1 33 Secondary 1 or 2 Engine Room 2 or Boiler Room 1 34 Funnel Engine Room 2 or Boiler Room 1 35 Funnel Engine Room 2 or Boiler Room 3 36 Secondary 3 or 4 Engine Room 2 or Boiler Room 3 41 Searchlight 1 or 2 Boiler Room 6 or Engine Room 3 42 **AAMGs** Boiler Room 6 or Engine Room 3 42 Secondary 5 or 6 Boiler Room 8 or Engine Room 5 44 **AAMGs** Boiler Room 8 or Engine Room 5 45 Searchlight 3 or 4 Engine Room 4 or Boiler Room 5 46 Secondary 7 or 8 Engine Room 4 or Boiler Room 5 51 **AAMGs** Engine Room 4 or Boiler Room 7 52 **AAMGs** Engine Room 4 or Boiler Room 7 53 Aft Primary Director, AAMGs Main Magazine X 54 Aft Secondary Director, AAMGs Main Magazine X 55-56 Main X Propshaft 1 or 2, Fuel Oil 3 61 Main X Propshaft 3 or 4, Fuel Oil 3 62 Catapult, Aircraft Fuel Oil 3 63 Catapult, Aircraft Steering 64 Steering

**AAMGs** 

			=		=	ER1		BR1	BR3	ER3		BR5	BR/		_	=	
	V1 1FP	FO 2FP	FM A	FM B	CIC Plot	E1 6FP		B1 3FP	B3 3FP	E3 6FP		B5 3FP	B7 3FP	AM Y	FO3 2FP	ST 2FP	FO4 2FP
			2FP	2FP	1FP	BR2 B2	BR4 B4	ER2 E2		BR6 B6	BR8 B8	ER4 E4		2FP			
•						3FP	3FP	6FP		3FP	3FP	6FP					

	Wichita													
<u>Navy</u> <u>Class</u>		United State Heavy cruis			<u>Dat</u>	<u>e</u> 1	942							
Surface Ar Main Batte Secondary	ry:	8 inch guns 5 inch guns			_	g <u>es</u> nches nches		<u>Directors</u> Fore and aft Fore and aft						
Gun: 8 inch triple 5 inch sing		5" A/11 A/10	10" 8/10 8/6	15" 6/8 2/1	20" 4/6	25" 3/2	30" 2/1	32" 1/0	Power 6 4	Relia B B				
<u>Speed</u>	4.00"	8 boile	ers	4 engines	<u>Torp</u>	edo Hits	17.7"-18": ±1	20.5"-2	2.5": ±2	24": ±3				
<u>Flotation</u>	Total: 67	DIW:	34	Sinking: 44										



#### Hits

Fuel Oil 1 Void 11-14 **Aviation Gas** 15 Void Main Magazine A 16-22 Main A Main Magazine B 23-25 Main B Plot/CIC Secondary C 26 Boiler Room 1 31 Bridge Boiler Room 1 Forward Secondary Director, Bridge 32 Boiler Room 2 Forward Main Director, Secondary 1 or 2 33 Boiler Room 2 34 Search Radar Boiler Room 3 35 Funnel Boiler Room 3 36 Searchlight 1 and 2 Boiler Room 4 Funnel, Searchlight 3 and 4 41 Boiler Room 4 42 Secondary 3 or 4 Engine Room 1 43 Secondary 3 or 4 Engine Room 1 44-45 AAMGs Engine Room 2 Void 46 Engine Room 2 46-51 Secondary 5 or 6 Engine Room 2 52 Aft Primary Director, AAMGs Fuel Oil 2 53 Aft Secondary Director, AAMGs Main Magazine X 54 Secondary X Main Magazine Y 55-56 Main Y Propshaft 1 or 2 61 Main Y

Propshaft 3 or 4, Av Gas 62 Aircraft

Aircraft, Catapult 1 or 2 Aircraft 63-64

Steering 65 Steering Aircraft Crane Void 66

ı						BR1	BR2	BR3	BR4	ER1	ER2					
	FO1	FO2	AM	BM	PLT	B1	В3	B5	В7	E1	E3	FO2	YM	AG	ST	V
	2FP	2FP	3FP	3FP	2FP	B2	B4	B6	B8	E2	E4	2FP	3FP	1FP	1FP	0FP
						7FP	7FP	7FP	7FP	10FP	10FP					j

	Northampton										
Navy Class						<u>e</u> 1	942				
Surface Armament Main Battery: Secondary Battery: 8 inch guns in 3 triple to 5 inch guns in 8 single				32 i	nges nches nches		Directors Fore and Fore and				
Gun: 8 inch tripl 5 inch sing		5" A/10 A/10	10" 8/9 8/6	15" 6/7 2/1	20" 4/5	25" 3/1	30" 2/0	32" 1/-1	Power 6 4	Relia B B	
Speed Flotation	4.00" Total: 61	8 boile	-	4 engines Sinking: 40	<u>Tor</u>	oedo Hits	17.7"-18": ±1	20.5"-22	2.5": ±2	24": ±3	



**Notes** 

Class of 6 included Northampton, Houston and Chicago.

Hits

Fuel Oil 11-13 Void **Aviation Fuel** 14 Void Fuel Oil 15 Void Main Magazine A 16-22 Main A Main Magazine B 23-25 Main B 26 Plot/CIC

Plot/CIC 26 Secondary Director, Bridge
Boiler Room 1 31 Forward Main Director, AAMGs, Bridge
Boiler Room 1 32 Bridge

Boiler Room 1 32 Bridge Boiler Room 1 33-34 Funnel Engine Room 1 35-41 Aircraft, Catapult 1 or 2

Engine Room 1 42 AAMGs, Hanger Boiler Room 2 43-44 AAMGs, Funnel Boiler Room 2 45 Secondary 1 or 2 Boiler Room 2 46 Secondary 3 or 4 Engine Room 2 Secondary 5 or 6 51 Engine Room 2 52 Secondary 7 or 8

Engine Room 2 53 Void

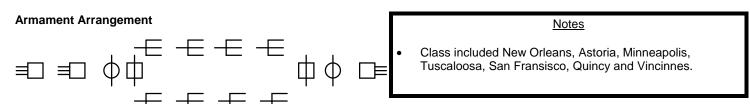
Engine Room 2 54 Aft Secondary Director, AAMGs, Searchlight 1 or 2 Main Magazine X 55 Aft Main Director, AAMGs, Searchlight 3 or 4

Main Magazine X | 56-61 Main X Fuel Oil 3, Propshaft 1 or 2 62 Main X Fuel Oil 3, Propshaft 3 or 4 63 Void Steering 64-65 Steering

Void 66 Void

						BR1	ER1	BR2	ER2				
						DICI		DRZ					
FO1	AG	FO2	AM	BM	PLT	B1	E1	B3	E3	YM	FO3	ST	V
2FP	1FP	1FP	3FP	3FP	2FP	B2	E2	B4	E4	2FP	2FP	1FP	0FP
						12FP	10FP	12FP	10FP	_, .			

#### **New Orleans United States Navy** 1942 **Date** <u>Navy</u> Class Heavy cruiser Surface Armament **Directors** Ranges Main Battery: 8 inch guns in 3 triple turrets 32 inches Fore and aft Secondary Battery: 5 inch guns in 8 single mounts 14 inches Fore and aft 5" 30" 32" Gun: 10" 15" 20" 25" Power Relia 8 inch triple A/10 2/0 8/9 6/7 4/5 3/1 1/-1 6 В 5 inch single A/10 8/6 2/1 В 4 4.00" 4 engines Speed 8 boilers Torpedo Hits 17.7"-18": ±1 20.5"-22.5": ±2 24": ±3 Flotation Total: 67 DIW: 34 Sinking: 44



Hits

iiio			
Fuel Oil 1	11-14	Void	
Aviation Gas	15	Void	
Main Magazine A	16-22	Main A	
Main Magazine B	23-25	Main B	
Plot/CIC	26	Secondary 1 or 2, AAMGs, Bridge	
Boiler Room 1	31	Forward Secondary Director, AAMGs, Bridge	
Boiler Room 1	32	Forward Main Director, AAMGs, Bridge	
Boiler Room 2	33	Secondary 3 or 4	
Boiler Room 2	34	Funnel	
Boiler Room 3	35	Secondary 5 or 6 , Searchlight 1 or 2	
Boiler Room 3	36	Funnel, Searchlight 3 or 4	
Boiler Room 4	41	Secondary 7 or 8	
Boiler Room 4	42	Aircraft , Catapult 1 or 2	
Engine Room 1	43-45	Aircraft, Catapult 1 or 2	
Engine Room 2	46	Aircraft, Catapult 1 or 2	
Engine Room 2	51-52	Hanger, AAMGs	
Fuel Oil 2	53	Aft Primary Director, AAMGs	
Main Magazine X	54	Aft Secondary Director, AAMGs	
Main Magazine X	55-56	Main X	
Propshaft 1 or 2, Fuel Oil 3	61	Main X	
Propshaft 3 or 4, Fuel Oil 3	62	Void	
Fuel Oil 3	63-64	Void	
Steering	65	Steering	

Void

**Internal Diagram** 

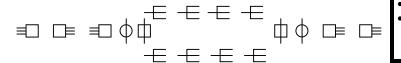
Void

66

	<u>g</u>														
					BR1	BR2	BR3	BR4	ER1	ER2					
FO1	AG	AM	BM	PLT	B1	B3	B5	B7	E1	E3	FO2	YM	FO3	ST	V
2FP	1FP	3FP	3FP	2FP	B2	B4	B6	B8	E2	E4	2FP	3FP	2FP	1FP	0FP
					7FP	7FP	7FP	7FP	10FP	10FP					

#### **Brooklyn** 1942 Navy **United States Navy Date** Class Heavy cruiser Surface Armament **Directors** Ranges Main Battery: 6 inch guns in 5 triple turrets 24 inches Fore and aft Secondary Battery: 5 inch guns in 8 single mounts 14 inches Fore and aft 5" Power Gun: 10" 15" 20" 24" Relia 6 inch triple A/14 2/8 8/12 3/10 1/5 6 В 5 inch single A/10 В 8/6 2/1 4 4 engines 17.7"-18": ±1 Speed 4.25" 12 boilers Torpedo Hits 24": ±3 20.5"-22.5": ±2 Total: 70 DIW: 35 Sinking: 48 Flotation

#### **Armament Arrangement**



#### **Notes**

- Heavy cruiser size, but light cruiser guns.
- Class included Brooklyn, Honolulu and Boise.

#### Hits

11113			
	Fuel Oil 1	11-15	Forward Void
	Main Magazine A	16-21	Main A
	Main Magazine B	22-24	Main B
	Main Magazine M	25-31	Main M
	Plot/CIC	32	Bridge, Foward Secondary Director, AAMGs
	Plot/CIC	33	Forward Primary Director, Secondary 1 or 2,
			Bridge, AAMGs
	Boiler Room 1	34	Search Radar
	Boiler Room 2	35	Funnel, Secondary 3 or 4
	Boiler Room 3	36	Searchlights 1 or 2
	Boiler Room 4	41	Secondary 5 or 6, Searchlights 3 or 4
	Boiler Room 4	42	Secondary 7 or 8, Funnel
	Engine Room 1	43-45	Void
	Engine Room 2	46	AAMGs, Aft Main Director
	Engine Room 2	51	AAMGs, Aft Secondary Director
	Main Magazine X	52-53	Main X
	Main Magazine Y	54-56	Main Y
	Fuel Oil 2, Propshafts 1 or 2	61	Catapult 1 or 2, Hanger
	Fuel Oil 2, Propshafts 3 or 4	62	Catapult 1 or 2, Hanger
	Steering	63-64	Catapult 1 or 2, Hanger
	Void	65-66	Hanger

FO1	PM	PM	PM	PL	BR1	BR2	BR3	BR4	ER1	ER2	PM	PM	FO2	ST	V
4FP	Α	В	М	2FP	B1	В3	B5	B7	E1	E3	Χ	Υ	2FP	1FP	1FP
	2FP	2FP	2FP		B2	B4	B6	B8	E2	E4	2FP	2FP			
					7FP	7FP	7FP	7FP	11FP	11FP					

**Sims** 1942 **United States Navy Date** Navy Class Destroyer <u>Armor</u> None Surface Armament Ranges **Directors** Main Battery: 5 inch guns in 4 single mounts 18 inches Fore Torpedoes: 21 inch torpedoes in 2 quadruple mounts 6 inches at 5.50" Port and starboard Maximum Value: 7 through 6/43, 9 after 10 inches at 3.25" 5" 18" Gun: 10" 15" Power Relia 5 inch single A/11 1/-1 8/7 2/3 Α Speed 4.50 4 boilers 2 engines Torpedo Hits 17.7"-18": ±1 20.5"-22.5": ±3 24": ±5 Sinking: 18 Flotation Total: 28 DIW: 14

# Armament Arrangement 12 ships in class. Originally had paired torpedo mounts aft and a fifth gun, but these were removed to reduce top-heaviness and permit the addition of AAMGs.

#### Hits

แเอ		
Fuel Oil 1	11-14	Forward Void
Forward Main Magazine	15	Main A
Forward Main Magazine	16-21	Main A
Forward Main Magazine	22	Main B
Fuel Oil 2	23-24	Main B
Fuel Oil 2	25	AAMGs (1-3), Bridge (4-6)
Fuel Oil 2	26	Main Director (1-3), Bridge (4-6)
Boiler Room 1	31	Bridge
Boiler Room 1	32	Search Radar
Boiler Room 1	33-34	Funnel
Boiler Room 2	35-36	Torpedo A
Engine Room 1	41	Torpedo A
Engine Room 1	42-43	Torpedo B
Engine Room 2	44	Torpedo B
Engine Room 2	45-46	AAMGs (1-3), Searchlight (4-6)
Aft Main Magazine	51	AAMGs (1-3), Searchlight (4-6)
Aft Main Magazine	52	Void
Aft Main Magazine	53-55	Main X
Fuel Oil 3	56	Main Y
Void (1-3), Propshaft 1 or 2 (4-6)	61-62	Main Y
Void (1-3), Propshaft 1 or 2 (4-6)	63-64	Void
Steering	65-66	Steering

FO1	FM	FO2	BR1	BR2	ER1	ER2	AM	FO3	V	ST
2FP	AB	3FP	B1	B3	E1	E3	XY	1FP	2FP	1FP
	2FP		B2	3FP	E2	E4	2FP			
			6FP		3FP	3FP				

**Benham United States Navy Date** 1942, as refit Navy Class Destroyer <u>Armor</u> None Surface Armament Ranges **Directors** Main Battery: 5 inch guns in 4 single mounts 18 inches Fore Torpedoes: 21 inch torpedoes in 2 quadruple mounts 6 inches at 5.50" Port and starboard Maximum Value: 7 through 6/43, 9 after 10 inches at 3.25" 5" 18" Gun: 10" 15" Power Relia 5 inch single A/11 1/-1 8/7 2/3 Α 4 boilers 20.5"-22.5": ±3 Speed 4.50 2 engines Torpedo Hits 17.7"-18": ±1 24": ±5 Sinking: 18 Flotation Total: 28 DIW: 14

## 

#### Hits

Fuel Oil 1	11-14	Forward Void
Fuel Oil 1	15	Main A
Forward Main Magazine	16-21	Main A
Forward Main Magazine	22-23	Main B
Fuel Oil 2	24	Main B
Fuel Oil 2	25	AAMGs, Bridge
Fuel Oil 2	26	Main Director, Bridge
Boiler Room 1	31	Bridge
Boiler Room 1	32	Void
Boiler Room 1	33	Search Radar
Boiler Room 1	34	Funnel
Boiler Room 2	35-36	Funnel
Boiler Room 2	41	AAMGs
Engine Room 1	42-44	Torpedo 1 or 2
Engine Room 2	45-51	AAMGs [Torpedo 3 or 4]
Aft Main Magazine	52	Searchlight
Aft Main Magazine	53	AAMGs
Aft Main Magazine	54-55	Main X
Fuel Oil 3	56	Main X
Void	61-62	Main Y
Void, Propshaft 1 or 2	63-64	Void
Steering	65-66	Steering

I	FO1	FM	FO2	BR1	BR2	ER1	ER2	AM	FO3	V	ST
	1FP	A&B	3FP	B1	В3	E1	E2	X&Y	1FP	1FP	1FP
ı		1FP		B2	3FP	5FP	5FP	1FP			
				6FP							

#### **Bristol United States Navy Date** 1942 Navy Class Destroyer <u>Armor</u> None Surface Armament Ranges **Directors** Main Battery: 5 inch guns in 4 single mounts 18 inches Fore Torpedoes: 21 inch torpedoes in 1 quintuple mount 6 inches at 5.50" Port and starboard Maximum Value: 7 through 6/43, 9 after 10 inches at 3.25" 5" Gun: 10" 15" 18" Power Relia 5 inch single A/11 1/-1 8/7 2/3 Α Speed 4.50 4 boilers 2 engines Torpedo Hits 17.7"-18": ±1 20.5"-22.5": ±3 24": ±5

Flotation Total: 27 DIW: 14 Sinking: 18

## Armament Arrangement Motes Many ships in this class. Bristols (DD453 and up) built with 4 guns and 10 tubes, but modified to 4 guns and 5 tubes before they saw war service.

#### Hits

Fuel Oil 1	11-13	Forward Void
Fuel Oil 1	14	Main A
Forward Main Magazine	15-16	Main A
Forward Main Magazine	21-22	Main B
Fuel Oil 2	23	Main B
Fuel Oil 2	24	AAMGs
Fuel Oil 2	25	Bridge
Fuel Oil 2	26	Main Director, Bridge
Boiler Room 1	31	Search Radar
Boiler Room 1	32-33	Funnel
Boiler Room 1	34	Torpedo A
Engine Room 1	35-36	Torpedo A
Boiler Room 2	41-42	Funnel, AAMGs
Boiler Room 2	43	Void
Boiler Room 2	44	Searchlight
Engine Room 2	45	Void
Engine Room 2	46-51	AAMGs
Aft Main Magazine	52	AAMGs
Aft Main Magazine	53-55	Main X
Fuel Oil 3, Propshaft 1 or 2	56-62	Main Y
Fuel Oil 3, Propshaft 1 or 2	63-64	Void
Steering	65-66	Steering

-										
	FO1	MM	FO2	BR1	ER1	BR2	ER2	MM	FO3	ST
	1FP	A&B	3FP	B1	E1	B3	E2	XY	2FP	1FP
		1FP		B2	4FP	B4	4FP	1FP		
				5FP		5FP				

## **Fletcher**

**United States Navy** Navy Class

Destroyer

1942 <u>Date</u> None <u>Armor</u>

Surface Armament

Main Battery: 5 inch guns in 5 single mounts Torpedoes:

21 inch torpedoes in 2 quintuple mount

Maximum Value: 7 through 6/43, 9 after Ranges 18 inches

6 inches at 5.50"

Fore Port and starboard

Directors

10 inches at 3.25"

Gun: 5 inch single

5" A/11 10" 8/7 15" 2/3

18" 1/-1 Power

Relia Α

24": ±5

Speed 4.50 4 boilers

2 engines

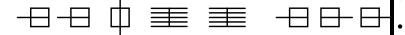
Torpedo Hits

17.7"-18": ±1

20.5"-22.5": ±3

Flotation Total: 30 DIW: 15 Sinking: 20

#### **Armament Arrangement**



#### **Notes**

- Most numerous class of USN fleet destroyers, with 175 ships in the class.
- Most early units built with twin 40mm mounts on the after pilothouse and the fantail. Some of the earliest (viz Fletcher) had one 1.1 inch mount on the pilothouse instead.

#### Hits

Fuel Oil 1 11-14 Void

Forward Main Magazine 15-21 Main A

Main B Fuel Oil 2 22-24 Bridge, AAMGs Fuel Oil 3 25

Fuel Oil 3 26 Bridge, Main Director

Search Radar Boiler Room 1 31

Boiler Room 1 32-33 **Funnel** Engine Room 1 34-36 Torpedo A

Boiler Room 2 41 Searchlight 1 or 2, Funnel

Boiler Room 2 42-43 Torpedo B

AAMGs, Torpedo B Boiler Room 2 44

Engine Room 2 45 AAMGs, Main M

Engine Room 2 46 Main M 51 Main M

Engine Room 2 Aft Main Magazine 52 **AAMGs** 

Aft Main Magazine 53-55 Main X Fuel Oil 4 56-62 Main Y

Void, Propshaft 1 or 2 63-64 Void

> Steering 65-66 Steering [,AAMGs]

FO1	PM	FO2	FO3	BR1	ER1	BR2	ER2	PM	FO4	V	ST
1FP	A&B	FO	FO	B1	E1	В3	E2	MXY	3FP	1FP	1FP
	1FP	2FP	2FP	B2	4FP	B4	4FP	1FP			
				5FP		5FP					

Livermore									
<u>Navy</u>	United States Navy				_	942			
<u>Class</u>	Destroyer			<u>Arn</u>	<u>nor</u> N	lone			
Surface Armament					<u>nges</u>		<u>Directors</u>		
Main Battery:	5 inch guns in 4 single mounts				inches	<b>-</b> 0"	Fore		
Torpedoes:	21 inch torpedoes in 2 quintuple mounts				iches at 5.5		Port and starboard		
Maximum Value:	7 through 6/	r	10	inches at 3	3.25″				
Gun:	5"	10"	15"	18"	Power	Relia			
5 inch single	A/11	8/7	2/3	1/-1	4	Α			
<u>Speed</u> 4.50	4 boile	ers	2 engines	Flo	tation	Total: 27	DIW: 14	Sinking: 18	
				<u>Tor</u>	pedo Hits	17.7"-18": ±1	20.5"-22.5": ±3	24": ±5	

## Armament Arrangement • 15 ships in class, including Livermore, Gwin, Meredith, Grayson, Monssen and Nicholson (DD 429-430, 432-444). • Class built with had 5 guns and 10 tubes, but sacrificed one gun mount for increased AAMG armament.

#### Hits

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Fuel Oil 1	11-13	Forward Void
Fuel Oil 1	14	Main A
Forward Main Magazine	15-16	Main A
Forward Main Magazine	21-22	Main B
Fuel Oil 2	23	Main B
Fuel Oil 2	24	AAMGs
Fuel Oil 2	25	Bridge
Fuel Oil 2	26	Main Director (1-3), Bridge (4-6)
Boiler Room 1	31	Search Radar
Boiler Room 1	32-33	Funnel
Boiler Room 1	34	Torpedo A
Engine Room 1	35-36	Torpedo A
Boiler Room 2	41-42	Funnel (1-3), AAMGs (4-6)
Boiler Room 2	43	Torpedo B
Boiler Room 2	44	Torpedo B
Engine Room 2	45	Torpedo B (1-3), Searchlight (4-6)
Engine Room 2	46-51	AAMGs
Aft Main Magazine	52	AAMGs
Aft Main Magazine	53-55	Main X
Fuel Oil 3 (1-3), Propshaft 1 or 2 (4-6)	56-62	Main Y
Fuel Oil 3 (1-3), Propshaft 1 or 2 (4-6)	63-64	Void
Steering	65-66	Steering

intornal Diagram										
	FO1	MM	FO2	BR1	ER1	BR2	ER2	MM	FO3	ST
	1FP	A&B	3FP	B1	E1	В3	E2	XY	2FP	1FP
		1FP		B2	4FP	B4	4FP	1FP		
				5FP		5FP				