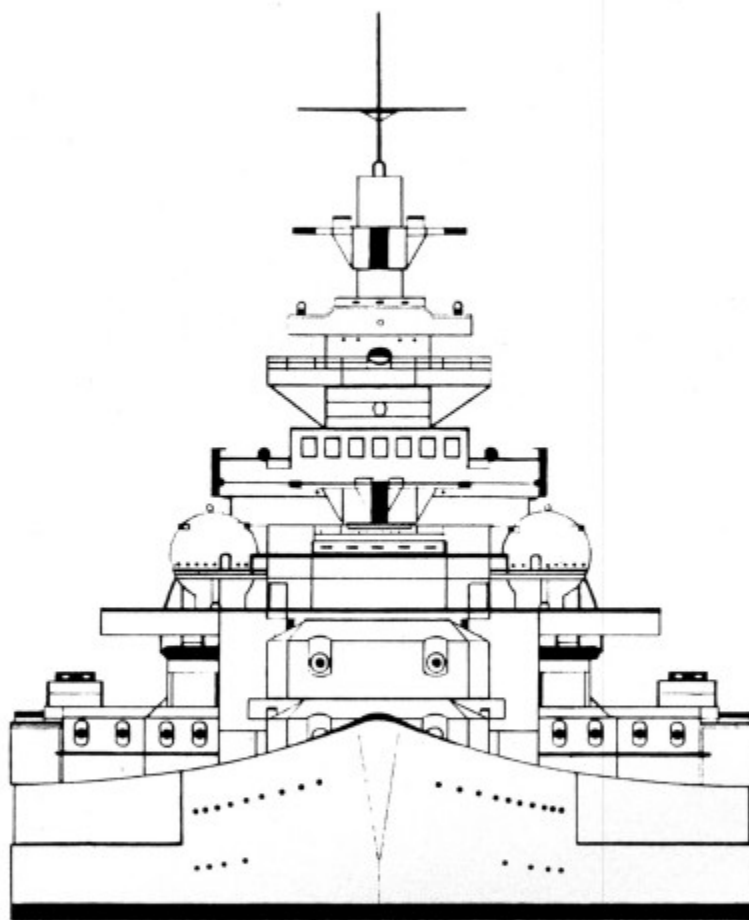


# SEEKRIEG

## FOURTH EDITION



# *SHIP DATA*

## *VOLUME I*

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# SEEKRIEG 4

## NAVAL WARGAME RULES

### 1890-1945



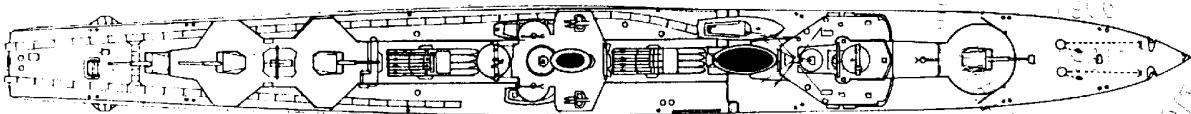
## *SHIP DATA SHEETS*

*Volume I*

*COMPILED and EDITED*

*by*

*Richard R. Sartore*



The SHIP DATA SHEETS (Volume I) are a collection of data concerning each class of major warships completed by the countries of the world during the years 1890 through 1945. The information has been compiled and tabulated in a form that allows the maximum amount of data to be presented in as small a space as possible. The information provides the gamer with all the data needed to play SEEKRIEG 4 and has not been converted to game units so that the information may be used for other purposes as well. The data presented is that of the ship as it was completed and does not include any refits, modifications or additions. A separate set of SHIP DATA SHEETS (Volume II) will be available which will contain re-armament and refit information for all the Battleships, Battlecruisers, Heavy and Light Cruisers, Destroyers and Aircraft Carriers included in Volume I.

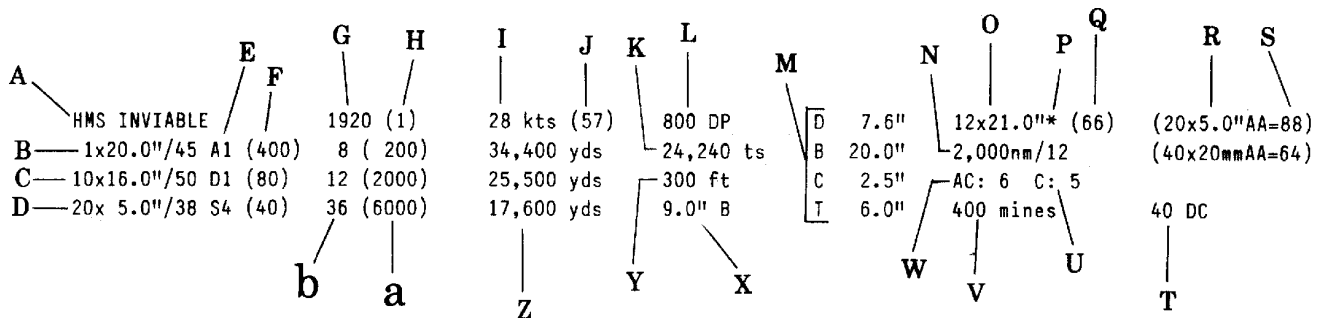
All entries are presented by country and grouped by the general ship type (i.e. Battleships and Battlecruisers, Heavy Cruisers, Light Cruisers, Destroyers, etc.). The classes are presented in chronological order (except for a few entries) and although only the class name is given for each listing, there is a ship class listing beginning on Page 55. When space permits, all the names of the ships in each class are given. However, those classes too large to fit all the ship names are denoted by three periods after the name of the last ship listed. In general, the most prominent ships (in terms of war service) are included and they are not presented in any specific order.

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In order to assist you in finding the information you need until you become familiar with the format of the SHIP DATA SHEETS, the drawing and key below have been included.

- A. Name of the class (usually the first one launched or completed).
- B. Number, size (in inches) and caliber of main armament guns.
- C. As above except for the secondary battery guns.
- D. As B. except for the tertiary battery guns.
- E. The penetration class of the gun (see CHART R)
- F. The Loss Factor or the number of Damage Points the ship can take before it will lose one of the guns in this battery (calculated by dividing the total DP of the ship by the total number of guns in the particular battery). In cases where there is only one gun, then it will be lost when the ship has received  $\frac{1}{2}$  of its total DP.
- G. The year the first ship of the class was completed.
- H. The total number of ships in the class that were completed.
- I. The maximum average speed of the ships in the class (in knots rounded to the nearest even number for game purposes).
- J. The Loss Factor or the number of Damage Points the ship can take before it will lose two knots of speed.
- K. The Standard Displacement of the class (in tons)
- L. The total number of Damage Points the ship can sustain before being considered sunk (calculated by multiplying the Standard Displacement by .033).
- M. The maximum amount of armor (in inches) on the Deck (D), Sidebelt (B), Conning Tower (C), and main battery Turrets (T), or in the case of aircraft carriers, Hangar (H). The Deck armor is usually the total of all decks protecting the vital machinery and the Turret armor is the average amount of armor on the top and face of the turret.
- N. The cruising radius of the ship in nautical miles at a given cruising speed in knots.
- O. The number and size (in inches) of the torpedo tubes carried aboard.
- P. The use of an asterisk after the size of the tubes indicated that the tubes were fixed, submerged, or otherwise untrainable.
- Q. The Loss Factor for the Torpedo Tubes used similar to B. above.
- R. The number and size (in inches or millimeters) of all DP or AA guns on the ship as completed. Some ships (like HMS INVIABLE) have DP guns which will be listed both in position R. and C. or D.
- S. The total AA Factor for the guns (calculated by multiplying the number of guns in the particular battery by the factors listed on CHART E).
- T. The number of Depth Charges carried aboard ship.
- U. The number of aircraft Catapults carried aboard ship.
- V. The number of mines carried aboard ship.
- W. The number of Aircraft carried aboard ship.
- X. The average amount of armor on the ship used only when using the Armor Average method of damage determination (calculated by taking the average of the amounts listed for D, B, C, and T). In cases where no amount of armor is listed, then use 1" as the amount. The letter following this average is the Armor Type (see CHART U).
- Y. The length of the ship at the waterline (used for torpedo calculation).
- Z. The range of the guns listed to the left at maximum elevation (range given in yards)
  - a. The number of rounds of ammunition available to that battery.
  - b. The maximum sustained rate of fire for the battery (given in shells per two minutes per gun).



# ARGENTINA

## BATTLESHIPS & BATTLECRUISERS

ALMIRANTE BROWN	1880 (1)	12 kts (23)	141 DP	D	1.5"	2x14.0"* (70)
10x 6.0"/50 P2 (14)	12 ( 800)	10,500 yds	4,267 ts	B	9.0"	
4x 3.7"/50 T2 (35)	28 ( 800)	6,000 yds	240 ft	C	7.0"	
			4.6" F	T	1.0"	
LIBERTAD	1890 (2)	14 kts (11)	77 DP	D	2.0"	2x18.0"* (38)
2x 9.4"/35 L3 (38)	2 ( 200)	9,500 yds	2,336 ts	B	8.0"	
4x 4.7"/40 S4 (19)	18 ( 600)	6,000 yds	230 ft	C	5.0"	
			4.0" F	T	4.0"	
GARIBALDI	1895 (4)	16 kts (28)	226 DP	D	2.0"	4x18.0"* (56)
2x10.0"/40 K2 (113)	2 ( 200)	14,000 yds	6,840 ts	B	6.0"	
10x 6.0"/40 P4 (22)	12 ( 800)	9,700 yds	328 ft	C	6.0"	
6x 4.7"/40 S4 (37)	18 ( 600)	6,000 yds	4.3" D	T	3.0"	
RIVIDAVIA	1911 (2)	20 kts (92)	922 DP	D	3.0"	2x21.0"* (461)
12x12.0"/50 H2 (77)	3 ( 960)	23,500 yds	27,940 ts	B	11.0"	7,600nm/10
12x 6.0"/50 P2 (77)	10 (1200)	16,500 yds	578 ft	C	12.0"	
16x 4.0"/50 T2 (57)	18 (1600)	13,700 yds	8.4" C	T	7.5"	

## CRUISERS

25 DE MAIO	1892 (1)	20 kts (10)	106 DP	D	4.5"	3x14.0"* (35)
2x 8.2"/30 M6 (53)	3 ( 160)	8,200 yds	3,200 ts	B	1.2"	
8x 4.7"/40 S4 (13)	16 ( 800)	6,000 yds	330 ft	C	3.0"	
			2.7" F	T	2.0"	
ESPORA	1892 (1)	20 kts (2)	25 DP	B	1.2"	4x14.0" (6)
2x 3.0"/28 U3 (12)	20 ( 160)	5,500 yds	550 ts	1.0" F		
9 DE JULIO	1893 (1)	22 kts (10)	115 DP	D	4.5"	5x18.0"* (23)
4x 6.0"/40 P4 (28)	12 ( 400)	9,700 yds	3,500 ts	B	1.2"	
8x 4.7"/40 S4 (14)	16 ( 800)	6,000 yds	350 ft	C	2.0"	
			2.3" F	T	1.5"	
PATRIA	1894 (1)	20 kts (3)	35 DP	B	1.4"	5x14.0"* (7)
2x 4.7"/40 S4 (17)	16 ( 200)	6,000 yds	1,070 ts	1.1" F		
BUENOS AIRES	1897 (1)	24 kts (12)	149 DP	D	5.0"	5x18.0"* (29)
2x 8.0"/45 M4 (74)	3 ( 160)	16,000 yds	4,500 ts	B	1.8"	
4x 6.0"/40 P4 (37)	12 ( 400)	9,700 yds	408 ft	C	6.0"	
6x 4.7"/40 S4 (24)	16 ( 600)	6,000 yds	4.3" D	T	4.5"	
ALMIRANTE BROWN	1931 (2)	32 kts (14)	224 DP	B	2.8"	6x21.0"* (37) ( 6x40mmAA= 9)
6x 7.5"/45 N2 (37)	12 (1200)	21,500 yds	6,800 ts	C	2.4"	7,300nm/14 AC: 2 C: 1
12x 3.9"/47 T3 (18)	16 (3000)	16,800 yds	533 ft	T	1.6"	2.0" A
LA ARGENTINA	1939 (1)	32 kts (13)	215 DP	D	2.0"	6x21.0" (35) ( 8x40mmAA=12)
9x 6.0"/50 P2 (23)	16 (1800)	24,800 yds	6,500 ts	B	3.0"	AC: 2 C: 1 ( 4x4.0"AA=14)
4x 4.0"/45 T3 (53)	30 (1800)	21,000 yds	508 ft	C	3.0"	
			2.5" A	T	2.0"	

DESTROYERS

CORRIENTES	1898 (3)	26 kts (1)	25 DP		3x18.0" (8)	
1x 3.0"/28 U3 (13)	24 (100)	5,000 yds	250 ts			
MENDOZA	1910 (4)	32 kts (1)	31 DP	290 ft	4x21.0" (7)	
4x 4.0"/40 T4 (7)	20 (320)	12,000 yds	950 ts			
CATAMARCA	1911 (4)	34 kts (2)	36 DP	289 ft	4x21.0" (9)	
4x 4.0"/40 T4 (9)	20 (320)	12,000 yds	1100 ts			
SANTIAGO	1914 (4)	32 kts (2)	43 DP		4x21.0" (10)	
3x 4.0"/40 T4 (14)	20 (240)	12,000 yds	1300 ts			
CERVANTES	1925 (2)	36 kts (2)	50 DP	318 ft	6x21.0" (8)	
5x 4.7"/45 S3 (10)	20 (500)	16,500 yds	1522 ts		4,500nm/14	
LA RIOJA	1929 (3)	36 kts (2)	52 DP	331 ft	6x21.0" (8)	( 2x40mmAA= 3)
5x 4.7"/45 S3 (10)	20 (500)	16,500 yds	1570 ts		4,500nm/14	
BUENOS AIRES	1938 (7)	36 kts (2)	45 DP	318 ft	8x21.0" (5)	
4x 4.7"/45 S3 (11)	20 (480)	16,500 yds	1375 ts		6,000nm/10	

**AUSTRIA - HUNGARY**BATTLESHIPS & BATTLECRUISERS

K. ERZHERZOG RUDOLF	1889 (1)	14 kts (33)	228 DP	D 2.7"	4x17.7"* (57)	
3x12.0"/35 H5 (76)	1 ( 240)	13,000 yds	6,900 ts	B 12.0"		
6x 4.7"/35 S4 (38)	15 ( 600)	6,000 yds	295 ft	C 12.0"		
2x 2.6"/45 X1 (114)	40 ( 600)	5,000 yds	9.4" E	T 11.0"		
MONARCH	1897 (3)	18 kts (20)	186 DP	D 2.4"	2x17.7"* (93)	
4x 9.4"/40 L2 (46)	2 ( 320)	17,000 yds	5,645 ts	B 10.6"	2,200nm/12	
6x 5.9"/40 P4 (31)	8 ( 900)	9,000 yds	315 ft	C 8.7"		
12x 1.9"/44 X1 (16)	40 (2400)	3,800 yds	7.9" C	T 9.8"		
HABSBURG	1902 (3)	20 kts (27)	275 DP	D 2.6"	2x17.7"* (137)	
3x 9.4"/40 L2 (91)	2 ( 240)	17,500 yds	8,340 ts	B 8.3"	4,500nm/10	
12x 5.9"/40 P4 (22)	8 (1800)	9,000 yds	354 ft	C 7.9"		
10x 2.6"/45 X1 (27)	40 (1500)	5,000 yds	5.2" C	T 2.0"		
ERZHERZOG KARL	1906 (3)	20 kts (35)	351 DP	D 3.0"	2x17.7"* (175)	
4x 9.4"/40 L2 (87)	2 ( 320)	17,500 yds	10,640 ts	B 8.3"	4,500nm/10	
12x 7.5"/42 N2 (29)	9 (1320)	13,000 yds	390 ft	C 8.7"		
12x 2.6"/45 X1 (29)	40 (4800)	5,000 yds	6.5" C	T 6.0"		
RADETZKY	1910 (3)	20 kts (47)	479 DP	D 1.9"	3x17.7"* (159)	
4x12.0"/45 H3 (119)	2 ( 300)	21,900 yds	14,500 ts	B 9.0"	5,000nm/10	
8x 9.4"/45 L1 (59)	5 ( 800)	18,000 yds	448 ft	C 9.8"		
20x 3.9"/50 T2 (23)	18 (3000)	14,000 yds	5.8" C	T 2.4"		
VIRIBUS UNITIS	1912 (4)	20 kts (67)	678 DP	D 1.9"	4x21.0"* (170)	
12x12.0"/45 H3 (56)	2 ( 912)	21,900 yds	20,548 ts	B 11.0"	4,200nm/10	
12x 5.9"/50 P2 (56)	10 (2160)	18,600 yds	495 ft	C 11.0"		
18x 2.6"/50 U1 (37)	20 (7200)	7,600 yds	7.5" C	T 5.9"		

CRUISERS

K. FRANZ JOSEF I	1890 (2)	20 kts (13)	134 DP	D 2.2"	4x17.7"* (33)
2x 9.4"/35 L3 (67)	2 ( 120)	9,500 yds	4,050 ts	C 3.5"	3,200nm/10
6x 5.9"/35 P4 (22)	8 ( 360)	8,000 yds	321 ft	T 2.2"	2.2" F
K. & K. M. THERESIA	1895 (1)	20 kts (17)	173 DP	D 2.2"	4x17.7"* (43)
2x 9.4"/40 L2 (86)	2 ( 150)	17,000 yds	5,247 ts	B 3.9"	3,500nm/10
8x 5.9"/35 P4 (21)	8 ( 640)	8,000 yds	351 ft	C 2.0"	
16x 1.9"/44 X1 (10)	40 (3200)	3,800 yds	3.0" F	T 3.9"	
KAISER KARL VI	1900 (1)	20 kts (20)	209 DP	D 2.4"	2x17.7"* (104)
2x 9.4"/40 L2 (104)	2 ( 180)	17,000 yds	6,325 ts	B 8.7"	3,500nm/10
8x 5.9"/40 P4 (26)	8 ( 640)	9,000 yds	390 ft	C 7.9"	
16x 1.9"/44 X1 (13)	40 (3200)	3,800 yds	5.9" D	T 4.5"	
ZENTA	1900 (3)	20 kts (7)	77 DP	D 2.0"	2x17.7"* (38)
8x 4.7"/40	18 ( 640)	13,100 yds	2,350 ts	B 2.0"	3,500nm/10
10x 1.9"/44 X1 (7)	40 (1000)	3,800 yds	313 ft	1.5" D	
SANKT GEORG	1905 (1)	22 kts (22)	245 DP	D 2.6"	2x17.7"* (122)
2x 9.4"/40 L2 (122)	2 ( 180)	17,500 yds	7,420 ts	B 8.3"	4,500nm/10
5x 7.5"/42 N2 (49)	9 ( 500)	13,000 yds	384 ft	C 7.9"	
4x 5.9"/40 P4 (61)	12 ( 400)	9,000 yds	6.4" C	T 6.8"	
9x 2.6"/45 X1	40 ( 900)	5,000 yds			
ADMIRAL SPAUN	1910 (1)	26 kts (8)	116 DP	B 2.4"	8x17.7" (14)
7x 3.9"/50 T2 (16)	18 ( 560)	14,000 yds	3,500 ts	1.4" C	1,600nm/24
			425 ft		
SAIDA	1914 (3)	26 kts (9)	118 DP	B 2.4"	6x17.7" (19)
9x 3.9"/50 T2 (13)	18 ( 720)	14,000 yds	3,580 ts	1.4" C	1,600nm/24
			428 ft		

DESTROYERS

HUSZÁR	1905 (13)	28 kts (1)	25 DP	224 ft	2x17.7" (12)
6x 2.6"/45 X1 (4)	30 ( 600)	5,000 yds	400 ts	12 mines	500nm/28
TATRA	1913 (10)	32 kts (1)	29 DP	276 ft	4x17.7" (7)
2x 3.9"/50 T2 (14)	16 ( 220)	12,000 yds	880 ts		1,600nm/12
6x 2.6"/45 X1 (4)	30 ( 480)	5,000 yds			

**BRAZIL**BATTLESHIPS & BATTLECRUISERS

RIACHUELO	1886 (1)	14 kts (26)	188 DP	D 2.0"	5x14.0"*
4x 9.4"/35 L3 (47)	2 ( 240)	9,500 yds	5,700 ts	B 11.0"	
6x 4.7"/40 S4 (31)	16 ( 480)	6,000 yds	305 ft	C 10.0"	
			7.3" F	T 6.0"	
AQUIDABAN	1889 (1)	14 kts (23)	165 DP	D 2.0"	5x14.0"*
4x 8.0"/45 M4 (41)	3 ( 240)	16,000 yds	5,000 ts	B 11.0"	
4x 4.7"/40 S4 (41)	16 ( 240)	6,000 yds	280 ft	C 10.0"	
8x 2.2"/40 X1 (20)	40 ( 600)	5,000 yds	7.3" F	T 6.0"	

MARSHAL FLORIANO	1899 (2)	14 kts (14)	104 DP	D 1.5"	2x14.0"* (52)
2x 9.4"/45 L1 (52)	4 ( 180)	14,200 yds	3,162 ts	B 13.8"	2,500nm/10
4x 4.7"/40 S4 (26)	16 ( 400)	6,000 yds	267 ft	C 5.0"	
			7.0" D	T 7.0"	

MIÑAS GERAS	1910 (2)	20 kts (63)	636 DP	D 2.3"	
12x12.0"/50 H2 (53)	3 ( 960)	21,000 yds	19,281 ts	B 9.0"	9,200nm/10
22x 4.7"/50 S2	16 (2200)	10,000 yds	530 ft	C 12.0"	
			7.8" C	T 8.0"	

CRUISERS

BARROZO	1897 (1)	20 kts (11)	114 DP	D 3.5"	
6x 6.0"/50 P2 (19)	12 ( 600)	10,500 yds	3,450 ts	B 1.4"	
4x 4.7"/40 S4 (28)	18 ( 400)	6,000 yds	330 ft	1.7" F	

TUPY	1897 (3)	22 kts (3)	34 DP	T 4.5"	3x14.0"* (11)
2x 4.7"/40 S4 (16)	18 ( 200)	6,000 yds	1,030 ts	1.9" F	259 ft

TAMANDARE	1893 (1)	16 kts (18)	150 DP	D 1.8"	
10x 6.0"/40 P4 (15)	12 ( 500)	9,000 yds	4,537 ts	C 2.0"	
2x 4.7"/40 S4 (75)	18 ( 200)	6,000 yds	294 ft	T 3.0"	2.0" F

BAHIA	1910 (2)	26 kts (7)	102 DP	C 3.0"	2x18.0"* (51)
10x 4.7"/50 S2 (10)	16 ( 800)	10,000 yds	3,100 ts	1.5" C	380 ft

DESTROYERS

PARA	1909 (10)	28 kts (1)	25 DP	240 ft	2x18.0" (12)
2x 4.0"/40 T4 (12)	20 ( 200)	12,000 yds	550 ts		3,700nm/14

**CHILE**BATTLESHIPS & BATTLECRUISERS

CAPITAN PRAT	1893 (1)	16 kts (24)	197 DP	D 3.0"	4x18.0"* (49)
4x 9.4"/35 L3 (49)	2 ( 220)	10,000 yds	5,981 ts	B 12.0"	4,000nm/8
8x 4.7"/45 S3 (24)	18 ( 800)	6,450 yds	328 ft	C 10.5"	
6x 2.2"/40 X1 (32)	40 ( 600)	5,000 yds	6.9" F	T 2.0"	

ALMIRANTE LATORRE	1920 (1)	See data for CANADA(1915) under Great Britain			
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CRUISERS

BLANCO ENCALADA	1894 (1)	22 kts (13)	146 DP	D 4.0"	5x18.0"* (29)
2x 8.0"/40 M5 (73)	3 ( 160)	14,000 yds	4,420 ts	C 6.0"	
10x 6.0"/40 P4 (14)	12 ( 800)	9,000 yds	370 ft	T 6.0"	4.3" F

ESMERALDA	1896 (1)	24 kts (19)	231 DP	D 2.0"	3x18.0"* (77)
2x 8.0"/40 M5 (115)	3 ( 200)	14,000 yds	7,000 ts	B 6.0"	
16x 6.0"/40 P4 (14)	12 (1280)	9,000 yds	436 ft	C 8.0"	
8x 3.0"/28 U3 (28)	24 ( 800)	5,000 yds	5.1" D	T 4.5"	

O'HIGGINS	1898 (1)	20 kts (28)	281 DP	D 2.0"	5x18.0"* (56)
4x 8.0"/45 M4 (70)	3 (400)	14,800 yds	8,500 ts	B 7.0"	
10x 6.0"/40 P4 (28)	12 (1000)	9,000 yds	407 ft	C 9.0"	
4x 4.7"/45 S3 (70)	18 ( 400)	6,450 yds	6.4" D	T 7.5"	



MINISTRO ZENTENO	1898 (1)	20 kts (11)	119 DP	D 3.5"	3x18.0"* (39)
8x 6.0"/40 P4 (14)	12 ( 480)	9,000 yds	3,600 ts	C 4.0"	
10x 2.2"/40 X1 (11)	40 ( 800)	5,000 yds	330 ft	2.4" D	
CHACABUCO	1902 (1)	20 kts (14)	142 DP	D 4.5"	5x18.0"* (28)
2x 8.0"/40 M5 (71)	3 (200)	14,000 yds	4,300 ts	B 2.0"	
10x 4.7"/45 S3 (14)	18 (800)	6,450 yds	360 ft	C 4.0"	
12x 3.0"/28 U3 (11)	24 (1200)	5,000 yds	3.8" D	T 4.5"	

DESTROYERS

CAPITAN O'BRIEN	1900 (6)	30 kts (1)	25 DP		2x18.0" (12)
1x 3.0"/28 U3 (13)	24 ( 100)	5,000 yds	350 ts		
ALDEA	1928 (6)	30 kts (3)	57 DP	299 ft	6x21.0" (9)
3x 4.7"/45 S3 (19)	18 ( 300)	10,600 yds	1,730 ts		20 mines

**CHINA**CRUISERS

HAI YUNG	1898 (3)	20 kts (9)	99 DP	D 2.8"	3x14.0"* (33)
3x 5.9"/40 P4 (33)	10 ( 300)	9,000 yds	3,000 ts	C 1.2"	
8x 4.1"/35 T4 (12)	14 ( 400)	6,500 yds	328 ft	T 2.0"	1.8" E
HAI CHI	1900 (2)	24 kts (11)	142 DP	D 5.0"	5x18.0"* (28)
2x 8.0"/40 M5 (71)	3 ( 160)	14,000 yds	4,300 ts	C 6.0"	
10x 4.7"/45 S3 (14)	18 ( 800)	6,450 yds	396 ft	T 4.5"	4.1" D
CHAO HO	1912 (2)	22 kts (8)	89 DP	D 3.0"	2x18.0" (44)
2x 6.0"/50 P2 (44)	10 ( 180)	16,500 yds	2,700 ts	C 3.0"	
4x 4.0"/50 T2 (22)	18 ( 240)	13,700 yds	330 ft	T 1.8"	2.2" C

**DENMARK**BATTLESHIPS

SKJOLD	1896 (1)	12 kts (11)	71 DP	D 2.0"	
1x 9.4"/40 L2 (36)	2 ( 80)	17,000 yds	2,160 ts	B 8.9"	
3x 4.7"/40 S4 (23)	18 ( 300)	6,000 yds	222 ft	C 7.9"	
			6.7" D	T 7.9"	
HERLUF TROLLE	1900 (3)	16 kts (14)	116 DP	D 2.2"	3x17.7"* (38)
2x 9.4"/43 L2 (58)	2 ( 160)	17,300 yds	3,500 ts	B 7.9"	
4x 5.9"/40 P4 (29)	8 ( 320)	9,000 yds	272 ft	C 7.0"	
			6.0" C	T 6.9"	
NIELS JUEL	1923 (1)	16 kts (15)	125 DP	D 2.2"	2x17.7"* (75)
10x 5.9"/45 P3 (12)	7 ( 900)	14,900 yds	3,800 ts	B 7.7"	
4x 2.2"/44 X1 (31)	30 (400)	8,200 yds	295 ft	C 6.7"	
			4.6" C	T 1.8"	

CRUISERS

VALKYRIEN	1890 (1)	18 kts (11)	100 DP	D 2.5"	5x14.0"* (20)
2x 8.2"/18 P5 (50)	1 ( 100)	4,800 yds	3,020 ts		
6x 5.9"/32 P5 (16)	6 ( 300)	4,000 yds	259 ft	1.4" F	
HEIMDAL	1893 (2)	16 kts (5)	43 DP	D 1.2"	4x17.7"* (10)
2x 4.7"/40 S4 (21)	18 ( 200)	6,000 yds	257 ft	C 4.5"	1.9" F

**FRANCE**BATTLESHIPS & BATTLECRUISERS

REQUIN	1886 (4)	14 kts (34)	238 DP	D 4.0"	
2x10.8"/45 (119) J3	2 ( 200)	13,000 yds	7,214 ts	B 19.5"	
6x 3.9"/45 (39) T3	14 ( 600)	6,500 yds	324 ft	C 12.0"	
			10.3" F	T 5.5"	
HOICHE	1889 (1)	16 kts (45)	363 DP	D 3.0"	5x17.7"* (72)
2x13.4"/26 (181) H5	1 ( 160)	7,600 yds	11,000 ts	B 17.8"	
2x10.8"/28 (181) K3	1 ( 160)	7,000 yds	337 ft	C 6.0"	
12x 5.5"/30 (30) S4	4 ( 960)	6,000 yds	8.8" F	T 8.5"	
MARCEAU	1890 (1)	16 kts (45)	360 DP	D 4.0"	5x17.7"* (72)
4x13.4"/30 (90) F2	1 ( 320)	7,700 yds	10,900 ts	B 17.8"	
15x 5.5"/30 (24) S4	4 (1200)	6,000 yds	330 ft	C 14.0"	
			9.3" F	T 1.5"	
MAGENTA	1893 (2)	16 kts (45)	360 DP	D 4.0"	5x17.7"* (72)
4x13.4"/30 (90) F2	1 ( 320)	7,700 yds	10,900 ts	B 17.8"	
17x 5.5"/30 (21) S4	4 (1360)	6,000 yds	336 ft	C 14.0"	
			9.3" E	T 1.5"	
JEMMAPPES	1894 (2)	16 kts (26)	214 DP	D 4.0"	2x17.7"* (107)
2x13.4"/40 (107) F2	1 ( 160)	10,800 yds	6,486 ts	B 18.0"	
4x 3.9"/45 (53) T3	14 ( 400)	6,500 yds	284 ft	C 12.0"	
			10.5" E	T 7.8"	
BOUVINES	1894 (2)	16 kts (27)	216 DP	D 4.0"	2x17.7"* (108)
2x12.0"/45 (108) H3	2 ( 160)	10,900 yds	6,535 ts	B 18.0"	
8x 3.9"/45 (27) T3	14 ( 800)	6,500 yds	292 ft	C 12.0"	
			10.5" E	T 7.8"	
BRENNUS	1895 (1)	18 kts (41)	376 DP	D 3.4"	6x17.7"* (62)
3x13.4"/40 (125) F2	1 ( 240)	11,000 yds	11,395 ts	B 18.0"	
10x 6.5"/45 (37) P3	5 ( 800)	9,800 yds	375 ft	C 4.8"	
			5.7" E	T 9.5"	
CARNOT	1896 (1)	18 kts (44)	401 DP	D 2.8"	4x17.7"* (100)
2x12.0"/45 (200) H3	2 ( 200)	10,000 yds	12,150 ts	B 17.8"	
2x10.8"/45 (200) J4	2 ( 160)	13,000 yds	381 ft	C 6.0"	
8x 5.5"/45 (50) Q1	9 ( 800)	9,000 yds	8.5" E	T 7.4"	
CHARLES MARTEL	1896 (1)	18 kts (43)	392 DP	D 2.8"	6x17.7"* (65)
2x12.0"/45 (196) H3	2 ( 200)	10,900 yds	11,882 ts	B 17.8"	
2x10.8"/45 (196) J4	2 ( 160)	13,000 yds	390 ft	C 9.2"	
8x 5.5"/45 ( 49) Q1	9 ( 800)	9,000 yds	9.4" E	T 7.9"	

JAUREGUIBERRY	1897 (1)	18 kts (43)	393 DP	D	2.8"	6x17.7"* (65)
2x12.0"/45 H3 (195)	2 ( 200)	10,900 yds	11,900 ts	B	17.8"	3,920nm/10
2x10.8"/45 J4 (195)	2 ( 200)	10,900 yds	365 ft	C	9.0"	
8x 5.5"/45 Q1 (49)	9 ( 800)	9,000 yds	9.4" E	T	7.8"	
4x 2.6"/50 U1 (98)	22 ( 600)	6,500 yds				
MASSENA	1898 (1)	18 kts (43)	393 DP	D	3.5"	4x17.7"* (98)
2x12.0"/40 H4 (196)	2 ( 200)	13,100 yds	11,924 ts	B	17.8"	
2x10.8"/45 J4 (196)	2 ( 200)	13,100 yds	380 ft	C	13.8"	
8x 5.5"/45 Q1 (49)	9 ( 800)	9,000 yds	10.9" D	T	8.5"	
BOUVET	1898 (1)	18 kts (44)	403 DP	D	3.5"	2x17.7"* (201)
2x12.0"/45 H3 (201)	2 ( 200)	13,100 yds	12,205 ts	B	15.7"	4,000nm/10
2x10.8"/45 J4 (201)	2 ( 200)	13,100 yds	387 ft	C	12.6"	
8x 5.5"/45 Q1 (50)	9 ( 800)	9,000 yds	9.9" D	T	7.8"	
8x 3.9"/45 T3 (50)	14(1200)	6,500 yds				
CHARLEMAGNE	1899 (3)	18 kts (41)	373 DP	D	3.5"	2x17.7"* (186)
4x12.0"/40 H4 (93)	2 ( 320)	13,100 yds	11,300 ts	B	15.7"	3,200nm/10
10x 5.5"/45 Q1 (37)	9 ( 800)	9,000 yds	385 ft	C	12.0"	
8x 3.9"/45 T3 (46)	18 (1200)	6,500 yds	9.2" D	T	5.8"	
IÉNA	1901 (1)	18 kts (44)	399 DP	D	3.2"	2x17.7"* (199)
4x12.0"/40 H4 (99)	2 ( 320)	13,100 yds	12,100 ts	B	12.8"	
8x 6.5"/45 P3 (49)	5 ( 800)	9,800 yds	401 ft	C	11.8"	
8x 3.9"/45 T3 (49)	18 (1200)	6,500 yds	8.6" D	T	6.4"	
HENRI IV	1902 (1)	18 kts (32)	291 DP	D	3.0"	2x17.7"* (145)
2x10.8"/40 J4 (145)	2 ( 160)	13,100 yds	8,807 ts	B	11.0"	5,000nm/10
7x 5.5"/45 Q1 (41)	9 ( 560)	9,000 yds	354 ft	C	8.0"	
			7.1" D	T	6.4"	
SUFFREN	1903 (1)	18 kts (46)	421 DP	D	2.8"	4x17.7"* (105)
4x12.0"/40 H4 (105)	2 ( 320)	13,100 yds	12,750 ts	B	11.8"	5,100nm/10
10x 6.5"/45 P3 (42)	5 (1000)	11,800 yds	410 ft	C	10.8"	
8x 3.9"/45 T3 (52)	14 ( 800)	6,500 yds	8.0" C	T	6.4"	
REPUBLIQUE	1906 (2)	18 kts (54)	490 DP	D	2.4"	5x17.7"* (98)
4x12.0"/45 H3 (122)	2 ( 400)	13,700 yds	14,865 ts	B	11.0"	8,100nm/10
18x 6.5"/45 P3 (27)	5 (1440)	11,800 yds	439 ft	C	11.0"	
13x 2.6"/45 U2 (37)	22 (1300)	6,500 yds	7.8" C	T	6.8"	
VÉRITÉ	1907 (4)	18 kts (54)	492 DP	D	2.4"	4x17.7"* (123)
4x12.0"/45 H3 (123)	2 ( 400)	13,700 yds	14,900 ts	B	11.0"	8,400nm/10
10x 7.6"/50 N1 (49)	4 ( 800)	13,100 yds	439 ft	C	11.0"	
13x 2.6"/45 U2 (37)	22 (1300)	6,500 yds	7.8" C	T	6.4"	
DANTON	1911 (6)	20 kts (60)	607 DP	D	3.0"	2x17.7"* (303)
4x12.0"/45 H3 (151)	2 ( 400)	14,000 yds	18,400 ts	B	10.0"	3,370nm/10
12x 9.4"/45 L1 (50)	4 (1200)	14,000 yds	481 ft	C	11.8"	
16x 3.0"/65 T3 (37)	24 (8000)	6,500 yds	7.9" C	T	6.8"	
COURBET	1913 (4)	20 kts (76)	765 DP	D	4.7"	4x17.7"* (191)
12x12.0"/45 H3 (63)	2 (1200)	15,800 yds	23,189 ts	B	10.6"	4,200nm/10
22x 5.5"/55 Q1 (34)	18 (6050)	12,600 yds	541 ft	C	11.8"	
			8.7" C	T	7.7"	

BRETAGNE	1915 (3)	20 kts (77)	770 DP	D 4.7"	4x17.7"* (192)
10x13.4"/45 F1 (77)	2 (1000)	26,600 yds	23,320 ts	B 10.6"	4,700nm/10
22x 5.5"/55 Q1 (35)	18 (6050)	15,800 yds	541 ft	C 12.4"	
			9.3" C	T 9.3"	
DUNKERQUE	1937 (2)	30 kts (58)	875 DP	D 6.9"	(16x5.1"AA=61)
8x13.0"/50 G1 (109)	2 (1080)	45,600 yds	26,500 ts	B 8.9"	( 8x37mmAA=18)
16x 5.1"/45 S3 (54)	22 (4800)	22,800 yds	700 ft	C 14.0"	AC: 2 C: 1 (32x13mmAA=32)
			9.8" A	T 9.4"	
RICHELIEU	1940 (2)	32 kts (72)	1155 DP	D 7.5"	( 9x6.0"AA=40)
8x15.0"/45 D2 (144)	2 ( 960)	41,100 yds	35,000 ts	B 12.6"	(12x3.9"AA=26)
9x 6.0"/54 P1 (128)	8 (2250)	23,600 yds	813 ft	C 13.4"	(16x37mmAA=35)
12x 3.9"/45 T3 (96)	20 (8000)	17,300 yds	11.5" A	T 12.3"	(28x13mmAA=28)
<u>HEAVY &amp; ARMORED CRUISERS</u>					
AMIRAL CHARNER	1895 (4)	18 kts (17)	155 DP	D 2.6"	
2x 7.6"/40 N2 (77)	4 ( 200)	9,800 yds	4,700 ts	B 3.5"	
6x 5.5"/45 Q1 (25)	7 ( 480)	9,000 yds	361 ft	C 3.6"	
			3.0" E	T 2.5"	
DUPUY DE LÔME	1893 (1)	20 kts (21)	211 DP	D 2.5"	2x17.7"* (105)
2x 7.6"/40 N2 (105)	4 ( 200)	9,800 yds	6,400 ts	B 4.8"	
6x 6.5"/40 P4 (35)	4 ( 600)	8,800 yds	374 ft	C 4.8"	
			3.7" F	T 2.5"	
POTHUAU	1896 (1)	20 kts (17)	177 DP	D 3.3"	
2x 7.6"/45 N2 (88)	4 ( 200)	10,400 yds	5,365 ts	B 2.4"	4,500nm/10
10x 5.5"/45 Q1 (17)	9 ( 800)	9,000 yds	371 ft	C 9.4"	
			4.8" E	T 4.0"	
JEANNE d'ARC	1903 (1)	22 kts (33)	372 DP	D 2.2"	2x17.7"* (186)
2x 7.6"/45 N2 (186)	4 ( 200)	13,100 yds	11,270 ts	B 5.9"	13,500nm/10
14x 5.5"/45 Q1 (26)	9 (1120)	9,000 yds	476 ft	C 5.9"	
			4.6" D	T 4.5"	
KLEBER	1903 (3)	22 kts (23)	254 DP	D 2.6"	2x17.7"* (127)
8x 6.5"/45 P3 (31)	5 ( 640)	10,900 yds	7,700 ts	B 4.0"	6,400nm/10
4x 3.9"/45 T3 (63)	14 ( 400)	6,500 yds	426 ft	C 5.9"	
			3.8" C	T 2.5"	
GUEYDON	1902 (3)	22 kts (28)	314 DP	D 2.0"	2x17.7"* (157)
2x 7.6"/45 N2 (157)	4 ( 200)	13,100 yds	9,500 ts	B 5.9"	10,000nm/10
8x 6.5"/45 P3 (39)	5 (1600)	11,800 yds	453 ft	C 6.3"	10 mines
4x 3.9"/45 T3 (78)	14 (1000)	6,500 yds	4.7" D	T 4.5"	
AMIRAL AUBE	1903 (4)	22 kts (31)	343 DP	D 2.5"	5x17.7"* (68)
2x 7.6"/45 N2 (171)	4 ( 200)	13,100 yds	10,400 ts	B 6.7"	12,000nm/10
8x 6.5"/45 P3 (42)	5 (1600)	11,800 yds	453 ft	C 8.0"	
6x 3.9"/45 T3 (57)	14 (1500)	6,500 yds	5.4" C	T 4.5"	
FRIANT	1895 (4)	20 kts (13)	132 DP	D 3.1"	2x17.7"* (66)
6x 6.5"/40 P4 (22)	4 ( 480)	8,800 yds	4,000 ts	T 1.2"	6,000nm/10
4x 3.9"/45 T3 (33)	14 ( 400)	6,500 yds	320 ft	1.6" D	
DAVOUT	1890 (2)	20 kts (10)	100 DP	D 3.2"	4x17.7"* (25)
6x 6.5"/30 P5 (16)	3 ( 480)	7,800 yds	3,027 ts	C 1.5"	
			289 ft	1.7" F	

D'ENTRECASTEAUX	1898 (1)	20 kts (26)	268 DP	D 3.3"	2x17.7"* (134)	
2x 9.4"/40 L2 (134)	2 (200)	12,200 yds	8,114 ts	C 9.8"	5,000nm/10	
12x 5.5"/45 Q1 (22)	9 (1200)	9,000 yds	393 ft	T 5.0"	4.8" D	
CHÂTEAURENAULT	1900 (1)	22 kts (24)	271 DP	D 3.9"		
2x 6.5"/45 P3 (135)	5 (200)	10,900 yds	8,200 ts	T 1.7"	7,500nm/12	
6x 5.5"/45 Q1 (45)	9 (600)	8,200 yds	443 ft	1.9" D		
JURIEN de la GRAVIERE	1901 (1)	22 kts (17)	188 DP	D 2.6"	2x17.7"* (94)	
8x 6.5"/45 P3 (23)	5 (640)	10,900 yds	5,700 ts	C 6.3"	6,150nm/10	
			440 ft	T 2.1"	3.0" D	
GUICHEN	1902 (1)	22 kts (24)	274 DP	D 3.9"	2x17.7"* (137)	
2x 6.5"/45 P3 (137)	5 (200)	10,900 yds	8,300 ts	C 6.3"	7,500nm/12	
6x 5.5"/45 Q1 (45)	9 (600)	8,200 yds	436 ft	T 1.5"	3.2" D	
DESCARTES	1896 (4)	18 kts (14)	132 DP	D 2.0"	2x17.7"* (66)	
4x 6.5"/45 P3 (33)	5 (320)	9,800 yds	4,000 ts	T 2.1"	6,000nm/10	
10x 3.9"/45 T3 (13)	14 (1000)	6,500 yds	320 ft	1.5" F		
LEON GAMBETTA	1903 (3)	22 kts (37)	414 DP	D 2.6"	4x17.7"* (103)	
4x 7.6"/45 N2 (103)	4 (400)	13,100 yds	12,550 ts	B 6.7"	12,000nm/10	
16x 6.5"/45 P3 (25)	5 (1280)	10,900 yds	476 ft	C 7.9"		
			5.4" C	T 4.5"		
JULES MICHELET	1908 (1)	22 kts (37)	416 DP	D 3.9"	4x17.7"* (104)	
4x 7.6"/45 N2 (104)	4 (400)	13,100 yds	12,600 ts	B 6.7"	12,000nm/10	
12x 6.5"/45 P3 (34)	5 (960)	10,900 yds	485 ft	C 7.9"		
			5.8" C	T 4.5"		
ERNEST RENAN	1908 (1)	22 kts (40)	450 DP	D 3.9"	2x17.7"* (225)	
4x 7.6"/45 N2 (112)	4 (400)	13,100 yds	13,644 ts	B 6.7"	10,000nm/10	
12x 6.5"/45 P3 (37)	5 (960)	10,900 yds	515 ft	C 7.9"		
16x 2.6"/45 U2 (28)	22 (1600)	6,500 yds	5.4" C	T 3.0"		
WALDECK ROUSSEAU	1910 (2)	24 kts (38)	462 DP	D 3.9"	2x17.7"* (231)	
14x 7.6"/50 N1 (33)	4 (1120)	15,300 yds	14,000 ts	B 6.7"	10,000nm/10	
18x 2.6"/45 U2 (25)	22 (1800)	6,500 yds	516 ft	C 7.9"		
			5.5" C	T 3.5"		
DUQUESNE	1928 (2)	34 kts (19)	330 DP	C 3.3"	6x21.6" (55)	(8x3.0"AA=16)
8x 8.0"/50 M3 (41)	8 (1280)	33,900 yds	10,000 ts		5,000nm/15	(8x37mmAA=6)
8x 3.0"/50 U1 (41)	16 (2000)	15,300 yds	623 ft	1.6" B	AC: 1 C: 1	(12x13mmAA=12)
ALGERIE	1934 (1)	30 kts (22)	330 DP	D 3.0"	6x21.6" (55)	(12x3.9"AA=31)
8x 8.0"/50 M3 (41)	8 (1280)	33,900 yds	10,000 ts	B 4.3"	5,500nm/15	(8x37mmAA=14)
12x 3.9"/45 T3 (27)	20 (5400)	17,300 yds	607 ft	2.3" A	AC: 2 C: 2	(16x13mmAA=16)
SUFFREN	1930 (1)	32 kts (20)	330 DP	B 2.4"	6x21.6" (55)	(8x3.0"AA=16)
8x 8.0"/50 M3 (41)	8 (1280)	33,900 yds	10,000 ts		5,000nm/15	(8x37mmAA=6)
8x 3.0"/50 U1 (41)	16 (2000)	15,300 yds	637 ft	1.4" B	AC: 2 C: 1	(12x13mmAA=12)
COLBERT	1930 (3)	32 kts (20)	330 DP	B 2.4"	6x21.6" (55)	(8x3.5"AA=14)
8x 8.0"/50 M3 (41)	8 (1280)	33,900 yds	10,000 ts		5,000nm/15	(8x37mmAA=6)
8x 3.5"/50 U1 (41)	14 (3600)	17,100 yds	637 ft	1.4" B	AC: 2 C: 2	(12x13mmAA=12)

LIGHT CRUISERS

SURCOUF	1890 (3)	20 kts (6)	61 DP	D 1.6"	5x17.7"* (12)	
4x 5.5"/45 Q1 (15)	7 (320)	9,000 yds	1,850 ts		1,800nm/18	
9x 1.9"/50 X1 (6)	40 (900)	3,500 yds	311 ft	1.2" F		
D'ESTRÉES	1899 (1)	20 kts (8)	81 DP	D 1.6"		
2x 5.5"/45 Q1 (40)	9 (200)	9,000 yds	2,450 ts		5,700nm/10	
4x 3.9"/45 T3 (20)	18 (400)	6,500 yds	312 ft	1.2" E		
8x 1.9"/50 X1 (10)	40 (800)	3,500 yds				
LAVOISIER	1895 (3)	20 kts (7)	76 DP	D 1.6"	2x17.7" (38)	
4x 5.5"/45 Q1 (19)	9 (320)	9,000 yds	2,300 ts	C 4.0"	3,000nm/10	
2x 3.9"/45 T3 (38)	18 (200)	6,500 yds	321 ft	T 2.1"		
10x 1.9"/50 X1 (7)	40 (1000)	3,500 yds	2.2" D			
DUGUAY TROUIN	1926 (3)	32 kts (14)	239 DP		12x21.6" (19)	(4x3.0"AA= 8)
8x 6.1"/50 P2 (29)	8 (1600)	23,600 yds	7,249 ts		3,000nm/20	(4x13mmAA= 4)
4x 3.0"/50 U1 (59)	16 (1000)	15,300 yds	594 ft	1.0" B	AC: 1 C: 1	
PLUTON	1931 (1)	30 kts (10)	158 DP			(4x3.0"AA= 8)
4x 5.4"/40 S4 (39)	24 (1000)	18,200 yds	4,773 ts			(2x37mmAA= 2)
4x 3.0"/50 U1 (39)	16 (1000)	15,300 yds	499 ft	1.0" B	280 mines	(12x13mmAA=12)
JEANNE D'ARC	1931 (1)	26 kts (16)	214 DP	D 3.0"	2x21.6" (107)	(4x3.0"AA= 8)
8x 6.1"/50 P2 (26)	8 (1800)	23,600 yds	6,496 ts	C 2.6"	5,000nm/14	(4x37mmAA= 3)
4x 3.0"/50 U1 (53)	16 (1000)	15,300 yds	558 ft	1.9" B	AC: 1 C: 0	(12x13mmAA=12)
EMIL BERTIN	1934 (1)	36 kts (10)	194 DP	D 2.0"	6x21.6" (32)	(4x3.5"AA= 7)
9x 6.0"/54 P1 (21)	8 (1800)	23,500 yds	5,886 ts		6,000nm/15	(8x37mmAA=14)
4x 3.5"/50 U1 (48)	14 (1800)	17,100 yds	581 ft	1.3" A	AC: 2 C: 1	(8x13mmAA= 8)
LA GALISSONNIERE	1935 (6)	34 kts (14)	250 DP	D 2.0"	4x21.6" (62)	(8x3.5"AA=14)
9x 6.0"/54 P1 (27)	8 (1800)	23,500 yds	7,600 ts	B 4.7"	4,850nm/18	(8x13mmAA= 8)
8x 3.5"/50 U1 (31)	14 (3600)	17,100 yds	586 ft	C 2.8"	AC: 2 C: 1	
			3.3" A	T 3.5"		

DESTROYERS

DURANDAL	1899 (30)	24 kts (2)	25 DP	187 ft	2x15.0" (12)	
2x 2.6"/50 U2 (12)	20 (100)	5,400 yds	320 ts		2,300nm/10	
6x 1.9"/50 X1 (4)	40 (600)	3,500 yds				
CLAYMORE	1905 (23)	28 kts (2)	25 DP	190 ft	2x17.7" (12)	
2x 2.6"/50 U2 (12)	20 (100)	5,400 yds	360 ts		2,300nm/10	
6x 1.9"/50 X1 (4)	40 (600)	3,500 yds				
SPAHI	1910 (13)	28 kts (2)	25 DP	213 ft	3x17.7" (8)	
6x 2.6"/45 U2 (8)	22 (300)	6,500 yds	530 ts		1,200nm/10	
BOUCLIER	1911 (21)	30 kts (2)	29 DP	250 ft	4x17.7" (7)	
2x 3.9"/45 T3 (14)	18 (200)	6,500 yds	880 ts		1,400nm/10	
4x 2.6"/45 U2 (7)	22 (400)	6,500 yds				
ADVENTURIER	1914 (4)	32 kts (2)	33 DP	282 ft	6x18.0" (5)	
4x 4.0"/40 T4 (8)	18 (400)	8,000 yds	1,000 ts		1,850nm/10	
ARABE	1917 (12)	30 kts (2)	25 DP	259 ft	4x17.7" (8)	
1x 4.7"/45 S3 (13)	16 (200)	12,000 yds	685 ts		2,000nm/12	
4x 3.0"/45 U2 (8)	20 (600)	6,500 yds				

CHACAL	1926 (6)	36 kts (3)	70 DP	413 ft	6x21.6" (11)	( 2x3.0"AA= 4)
5x 5.1"/40 S4 (14)	9 ( 750)	20,500 yds	2,125 ts	20 DC	1,000nm/28	
2x 3.0"/50 U1 (35)	16 ( 300)	15,300 yds				
BOURRASQUE	1926 (12)	32 kts (2)	43 DP	344 ft	6x21.6" (7)	( 1x3.0"AA= 2)
4x 5.1"/40 S4 (10)	8 ( 400)	20,200 yds	1,319 ts	20 DC	1,500nm/15	
1x 3.0"/50 U1 (22)	16 ( 150)	15,300 yds				
L'ADROIT	1928 (14)	32 kts (3)	45 DP	350 ft	6x21.6" (7)	( 1x3.0"AA= 2)
4x 5.1"/40 S4 (11)	9 ( 400)	20,500 yds	1,378 ts	20 DC	1,500nm/15	
1x 3.0"/50 U1 (23)	16 ( 150)	15,300 yds				
GUEPARD/AIGLE	1929 (12)	36 kts (4)	80 DP	426 ft	6x21.6" (13)	( 4x37mmAA= 3)
5x 5.4"/40 S4 (16)	11 ( 750)	19,700 yds	2,436 ts	20 DC	2,800nm/14	( 4x13mmAA= 4)
VAUQUELIN	1932 (6)	38 kts (4)	80 DP	432 ft	7x21.6" (11)	( 4x37mmAA= 3)
5x 5.4"/40 S4 (16)	11 ( 750)	19,700 yds	2,440 ts	20 DC	2,500nm/14	( 4x13mmAA= 4)
					50 mines	
LE FANTASQUE	1935 (6)	40 kts (4)	85 DP	433 ft	9x21.6" (9)	( 4x37mmAA= 7)
5x 5.4"/50 S2 (17)	24 (1250)	21,900 yds	2,569 ts	20 DC	3,000nm/14	( 4x13mmAA= 4)
MOGADOR	1938 (6)	42 kts (4)	95 DP	449 ft	10x21.6" (9)	( 6x37mmAA=10)
8x 5.4"/50 S2 (11)	12 (2000)	21,900 yds	2,884 ts	20 DC	3,000nm/20	( 4x13mmAA= 4)
LE HARDI	1940 (12)	36 kts (3)	58 DP	384 ft	7x21.6" (8)	( 2x37mmAA= 3)
6x 5.1"/45 S3 (9)	29 (1350)	20,600 yds	1,772 ts	10 DC	2,710nm/20	( 4x13mmAA= 4)

AIRCRAFT CARRIERS

BEARN	1927 (1)	22 kts (66)	731 DP	D 2.0"	4x21.6" (182)	( 6x3.0"AA=12)
8x 6.1"/50 P2 (91)	8 (1800)	23,600 yds	22,146 ts	B 3.1"	4,500nm/18	( 8x37mmAA= 6)
6x 3.0"/50 U1 (121)	16 (1200)	15,300 yds	597 ft	1.8" B	AC: 40	
COMMANDANT TESTE	1932 (1)	20 kts (33)	330 DP	D 1.2"		(12x3.9"AA=28)
12x 3.9"/45 T3 (27)	16 (5400)	18,400 yds	10,000 ts	1.0" A	6,000nm/10	( 8x37mmAA= 6)
			548 ft		AC: 26 C: 4	(12x13mmAA=12)

**GERMANY**BATTLESHIPS & BATTLECRUISERS

SIEGFRIED	1890 (8)	14 kt (19)	134 DP	D 1.3"	4x17.7"* (34)	
3x 9.4"/35 L3 (45)	2 ( 240)	9,500 yds	4,058 ts	B 9.5"	3,980nm/10	
10x 3.4"/30 U3 (13)	18 (4400)	4,500 yds	240 ft	C 7.0"		
			5.8" E	T 5.5"		
WORTH	1893 (4)	16 kt (41)	332 DP	D 3.0"	3x17.7"* (110)	
6x11.0"/40 J4 (55)	1 ( 480)	14,000 yds	10,060 ts	B 15.8"	4,500nm/10	
8x 4.1"/35 T4 (41)	14 (1600)	6,500 yds	340 ft	C 11.8"		
8x 3.4"/30 U3 (41)	18 (3520)	4,500 yds	8.9" E	T 5.0"		
KAISER FRIEDRICH III	1898 (5)	18 kt (39)	356 DP	D 3.0"	6x17.7"* (59)	
4x 9.4"/40 L2 (89)	4 ( 320)	17,000 yds	10,790 ts	B 12.0"	4,500nm/10	
18x 5.9"/40 P4 (19)	12 (3240)	9,000 yds	384 ft	C 10.0"		
12x 3.4"/35 U3 (29)	18 (5280)	5,000 yds	7.5" C	T 5.0"		

WITTELSBACH	1902 (5)	18 kt (43)	389 DP	D	3.0"	5x17.7"* (77)
4x 9.4"/40 L2 (97)	4 (320)	17,000 yds	11,800 ts	B	9.0"	5,000nm/10
18x 5.9"/40 P4 (21)	12 (3240)	9,000 yds	400 ft	C	10.0"	
12x 3.4"/35 U3 (32)	18 (5280)	5,000 yds	6.8" C	T	5.0"	
BRAUNSCHWEIG	1904 (5)	18 kt (48)	436 DP	D	3.0"	6x17.7"* (72)
4x11.0"/40 J4 (109)	3 (480)	20,600 yds	13,200 ts	B	8.8"	5,500nm/10
14x 6.7"/40 P3 (31)	10 (2520)	11,000 yds	398 ft	C	12.0"	
14x 3.4"/35 U3 (31)	18 (6160)	5,000 yds	7.2" C	T	5.0"	
DEUTSCHLAND	1906 (5)	18 kts (48)	436 DP	D	3.0"	6x17.7"* (72)
4x11.0"/40 J4 (109)	3 (480)	20,600 yds	13,200 ts	B	9.0"	5,500nm/10
14x 6.7"/40 P3 (31)	10 (2520)	11,000 yds	398 ft	C	12.0"	
20x 3.4"/35 U3 (21)	18 (8800)	5,000 yds	7.6" C	T	6.5"	
NASSAU	1909 (4)	20 kts (62)	624 DP	D	4.0"	6x17.7"* (104)
12x11.0"/45 J3 (52)	3 (1440)	22,800 yds	18,900 ts	B	11.5"	9,400nm/10
12x 5.9"/45 P3 (52)	14 (2160)	14,700 yds	478 ft	C	12.0"	
16x 3.4"/35 U3 (39)	18 (7040)	5,000 yds	8.7" C	T	7.3"	
VON DER TANN	1910 (1)	24 kts (53)	640 DP	D	2.5"	4x17.7"* (160)
8x11.0"/45 J3 (80)	3 (696)	22,800 yds	19,400 ts	B	9.5"	6,500nm/10
10x 5.9"/45 P3 (64)	14 (1920)	14,700 yds	562 ft	C	9.5"	
16x 3.4"/35 U3 (40)	18 (7040)	5,000 yds	7.0" C	T	6.3"	
HELGOLAND	1911 (4)	20 kts (75)	752 DP	D	3.0"	6x20.0"* (125)
12x12.0"/50 H2 (62)	2 (1020)	21,000 yds	22,800 ts	B	11.8"	9,400nm/10
14x 5.9"/45 P3 (53)	14 (2100)	14,700 yds	546 ft	C	12.0"	
14x 3.4"/35 U3 (53)	18 (6160)	5,000 yds	8.6" C	T	7.5"	
MOLTKE	1911 (2)	26 kts (57)	746 DP	D	2.5"	4x20.0"* (186)
10x11.0"/50 J2 (74)	3 (870)	19,700 yds	22,616 ts	B	10.6"	6,500nm/10
12x 5.9"/45 P3 (62)	14 (1920)	14,700 yds	610 ft	C	10.0"	
12x 3.4"/35 U3 (62)	18 (5280)	5,000 yds	7.4" C	T	6.3"	
KAISER	1912 (5)	20 kts (80)	805 DP	D	3.0"	5x20.0"* (161)
10x12.0"/50 H2 (80)	2 (850)	21,000 yds	24,380 ts	B	13.6"	9,500nm/10
14x 5.9"/45 P3 (57)	14 (2100)	14,700 yds	564 ft	C	13.8"	
12x 3.4"/35 U3 (67)	18 (5280)	5,000 yds	9.6" C	T	8.0"	
SEYDLITZ	1913 (1)	26 kts (62)	812 DP	D	2.5"	4x20.0"* (203)
10x11.0"/50 J2 (81)	3 (870)	19,700 yds	24,610 ts	B	11.8"	6,500nm/10
12x 5.9"/45 P3 (67)	14 (1920)	14,700 yds	656 ft	C	10.0"	
14x 3.4"/35 U3 (58)	18 (6160)	5,000 yds	7.6" C	T	6.3"	
KÖNIG	1914 (4)	22 kts (76)	838 DP	D	4.5"	5x20.0"* (167)
10x12.0"/50 H2 (83)	2 (870)	21,000 yds	25,390 ts	B	13.8"	10,000nm/10
14x 5.9"/45 P3 (59)	14 (2100)	14,700 yds	580 ft	C	13.8"	
6x 3.4"/35 U3 (139)	18 (2640)	5,000 yds	10.0" C	T	8.1"	
DERFFLINGER	1914 (3)	26 kts (66)	868 DP	D	2.5"	4x20.0"* (217) (8x3.4"AA=17)
8x12.0"/50 H2 (108)	2 (696)	21,000 yds	26,318 ts	B	11.8"	9,000nm/10
14x 5.9"/45 P3 (62)	14 (2100)	14,700 yds	689 ft	C	11.0"	
8x 3.4"/45 U2 (108)	20 (5120)	12,500 yds	8.0" C	T	6.9"	
BAYERN	1916 (4)	22 kts (84)	924 DP	D	4.8"	5x23.6"* (184) (8x3.4"AA=17)
8x15.0"/45 D2 (115)	4 (696)	22,200 yds	28,000 ts	B	13.8"	9,000nm/10
16x 5.9"/45 P3 (57)	14 (2400)	14,700 yds	560 ft	C	13.8"	
8x 3.4"/45 U2 (115)	20 (5120)	12,500 yds	10.3" C	T	8.8"	



DEUTSCHLAND(LUTZOW)	1933 (1)	26 kts (29)	386 DP	D	3.0"	8x21.0" (48)	( 6x4.1"AA=19)
6x11.0"/55 J1 (64)	5 ( 600)	40,500 yds	11,700 ts	B	3.2"	10,000nm/18	( 8x37mmAA= 8)
8x 5.9"/55 P1 (48)	18 (1200)	24,000 yds	593 ft	C	5.9"	AC: 2 C: 1	(10x20mmAA=15)
6x 4.1"/65 T1 (64)	30 (3200)	16,500 yds	4.1" B	T	4.4"		
ADMIRAL GRAF SPEE	1934 (2)	26 kts (30)	399 DP	D	3.0"	8x21.0" (49)	( 6x4.1"AA=19)
6x11.0"/55 J1 (66)	5 ( 630)	40,500 yds	12,100 ts	B	4.0"	9,000nm/18	( 8x37mmAA= 8)
8x 5.9"/55 P1 (49)	18 (1200)	24,000 yds	597 ft	C	5.9"	AC: 2 C: 1	(10x20mmAA=15)
6x 4.1"/65 T1 (66)	30 (3200)	16,500 yds	4.3" B	T	4.4"		
SCHARNHORST	1938 (2)	32 kts (65)	1049 DP	D	2.8"	6x21.0" (174)	(14x4.1"AA=45)
9x11.0"/55 J1 (116)	5 ( 945)	45,800 yds	31,800 ts	B	9.8"	10,000nm/18	(16x37mmAA=16)
12x 5.9"/55 P1 (87)	18 (1800)	24,000 yds	741 ft	C	9.8"	AC: 2 C: 2	( 8x20mmAA=12)
14x 4.1"/65 T1 (74)	30 (5600)	16,500 yds	7.6" A	T	7.8"		
BISMARCK	1940 (2)	30 kts (92)	1386 DP	D	6.7"	8x21.0" (173)	(16x4.1"AA=51)
8x15.0"/47 D1 (173)	6 ( 960)	39,600 yds	42,000 ts	B	12.6"	9,000nm/18	(16x37mmAA=16)
12x 5.9"/55 P1 (115)	18 (1800)	24,000 yds	794 ft	C	13.8"	AC: 6 C: 1	(36x20mmAA=54)
16x 4.1"/65 T1 (86)	30 (6720)	16,500 yds	11.0" A	T	10.7"		

## HEAVY &amp; ARMORED CRUISERS

KAISERIN AUGUSTA	1892 (1)	20 kts (20)	208 DP	D	3.5"	5x17.7"* (41)	
12x 5.9"/35 P5 (17)	12 ( 720)	8,000 yds	6,300 ts	B	1.2"	4,000nm/10	
8x 3.4"/30 U3 (26)	18 (1200)	4,500 yds	338 ft	E	1.7"		
HERTHA	1898 (5)	18 kts (21)	194 DP	D	4.0"	3x17.7"* (64)	
2x 8.2"/40 M5 (97)	6 ( 200)	16,000 yds	5,880 ts	B	1.2"		
8x 5.9"/40 P4 (24)	12 ( 480)	9,000 yds	363 ft	C	8.0"		
10x 3.4"/35 U3 (19)	18 (2200)	4,000 yds	3.9" C	T	2.5"		
FURST BISMARCK	1900 (1)	18 kts (39)	353 DP	D	2.0"	6x17.7"* (58)	
4x 9.4"/40 L2 (88)	4 ( 320)	17,000 yds	10,700 ts	B	8.0"		
12x 5.9"/40 P4 (29)	12 ( 960)	9,000 yds	399 ft	C	8.0"		
10x 3.4"/35 U3 (35)	18 (2200)	4,000 yds	5.6" C	T	4.5"		
PRINZ HEINRICH	1902 (1)	20 kts (29)	295 DP	D	2.0"	4x17.7"* (73)	
2x 9.4"/40 L2 (147)	4 ( 320)	17,000 yds	8,930 ts	B	4.0"	1,875nm/20	
10x 5.9"/40 P4 (29)	12 ( 800)	9,000 yds	394 ft	C	6.0"		
12x 3.4"/35 U3 (35)	18 (2640)	4,000 yds	3.9" C	T	3.5"		
PRINZ ADALBERT	1903 (2)	20 kts (29)	299 DP	D	2.0"	4x17.7"* (74)	
4x 8.2"/40 M5 (74)	6 ( 480)	16,000 yds	9,050 ts	B	4.0"		
10x 5.9"/40 P4 (29)	12 ( 800)	9,000 yds	394 ft	C	6.0"		
10x 3.4"/35 U3 (29)	18 (2200)	4,000 yds	3.9" C	T	3.5"		
ROON	1905 (2)	22 kts (28)	308 DP	D	2.8"	4x17.7"* (77)	
4x 8.2"/40 M5 (77)	6 ( 480)	16,000 yds	9,350 ts	B	4.0"		
10x 5.9"/40 P4 (30)	12 (1700)	9,000 yds	403 ft	C	6.0"		
14x 3.4"/35 U3 (22)	18 (3080)	4,000 yds	4.1" C	T	3.5"		
SCHARNHORST	1907 (2)	22 kts (34)	383 DP	D	2.0"	4x17.7"* (95)	
8x 8.2"/40 M5 (47)	6 ( 784)	16,000 yds	11,600 ts	B	6.0"		
6x 5.9"/40 P4 (63)	12 (1020)	9,000 yds	474 ft	C	7.8"		
20x 3.4"/35 U3 (19)	18 (3000)	4,000 yds	4.9" C	T	3.9"		
BLUCHER	1909 (1)	26 kts (39)	512 DP	D	2.8"	3x17.7"* (170)	
12x 8.2"/45 M4 (42)	6 (1020)	19,500 yds	15,500 ts	B	6.0"		
8x 5.9"/45 P3 (64)	14 (1320)	14,700 yds	530 ft	C	7.8"		
16x 3.4"/45 U2 (32)	20 (3200)	12,500 yds	5.0" C	T	3.5"		

ADMIRAL HIPPER	1939 (2)	32 kts (25)	413 DP	D 3.2"	12x21.0" (34)	(12x4.1"AA=38)
8x 8.0"/60 M1 (51)	6 ( 960)	39,500 yds	12,500 ts	B 3.2"	6,800nm/18	(12x37mmAA=12)
12x 4.1"/65 T1 (34)	30 (4800)	16,500 yds	640 ft	C 5.9"	AC: 3 C: 1	( 4x20mmAA= 6)
			3.9" A	T 3.4"		
PRINZ EUGEN	1940 (3)	32 kts (26)	421 DP	D 3.2"	12x21.0" (35)	(12x4.1"AA=38)
8x 8.0"/60 M1 (52)	6 ( 960)	39,500 yds	12,750 ts	B 3.2"	5,500nm/18	(12x37mmAA=12)
12x 4.1"/65 T1 (35)	30 (4800)	16,500 yds	654 ft	C 5.9"	AC: 3 C: 1	( 8x20mmAA=12)
			3.9" A	T 3.4"		
<u>LIGHT CRUISERS</u>						
GEFION	1894 (1)	20 kts (12)	124 DP	D 1.2"	2x17.7"* (62)	
10x 4.1"/35 T4 (12)	14 ( 800)	6,500 yds	3,770 ts	B 1.2"		
			362 ft	1.1" E		
HELA	1896 (1)	20 kts (6)	67 DP	C 1.2"	3x17.7"* (22)	
4x 3.4"/30 U3 (16)	18 ( 600)	4,500 yds	2,040 ts	1.0" E		
			344 ft			
GAZELLE	1899 (7)	22 kts (7)	87 DP	D 2.0"	2x17.7"* (43)	
10x 4.1"/40 T4 (8)	15 (1200)	10,000 yds	2,645 ts	C 3.0"		
			328 ft	1.8" C		
FRAUENLOB	1902 (3)	22 kts (8)	90 DP	D 2.0"	2x17.7"* (45)	
10x 4.1"/40 T4 (9)	15 (1200)	10,000 yds	2,715 ts	C 4.0"		
			328 ft	2.0" C		
BREMEN/LEIPZIG	1904 (7+2)	24 kts (8)	107 DP	D 2.0"	2x17.7"* (53)	
10x 4.1"/40 T4	15 (1200)	10,000 yds	3,250 ts	B 1.5"		
			341 ft	C 4.0"	2.1" C	
KONIGSBERG	1907 (1)	24 kts (9)	112 DP	D 2.0"	2x17.7"* (56)	
10x 4.1"/40 T4 (11)	15 (1500)	11,500 yds	3,400 ts	B 2.0"		
			378 ft	C 4.0"	2.2" C	
STETTIN	1908 (3)	24 kts (9)	117 DP	D 2.0"	2x17.7"* (58)	
10x 4.1"/40 T4 (11)	15 (1500)	11,500 yds	3,550 ts	B 2.0"		
			385 ft	C 4.0"	2.2" C	
EMDEN	1908 (2)	24 kts (10)	120 DP	D 2.0"	2x17.7"* (60)	
10x 4.1"/45 T3 (12)	18 (1500)	13,500 yds	3,650 ts	B 2.6"		
			388 ft	C 4.0"	2.4" C	
KOLBERG	1909 (4)	26 kts (11)	144 DP	D 2.0"	2x17.7"* (72)	
12x 4.1"/45 T3 (12)	18 (1800)	13,500 yds	4,350 ts	B 2.6"		
			428 ft	C 4.0"	2.4" C	
BRESLAU	1912 (4)	28 kts (10)	150 DP	D 2.0"	4x20.0"* (37)	
12x 4.1"/45 T3 (12)	18 (1800)	13,500 yds	4,550 ts	B 3.5"		
			455 ft	C 4.0"	2.6" C	
KARLSRUHE	1913 (4)	28 kts (11)	163 DP	D 2.0"	4x20.0"* (40)	
12x 4.1"/45 T3 (13)	18 (1800)	13,500 yds	4,950 ts	B 4.0"		
			468 ft	C 4.0"	2.8" C	
FRANKFURT	1915 (2)	28 kts (12)	172 DP	D 1.5"	4x20.0"* (43)	( 2x3.4"AA= 4)
8x 5.9"/45 P3 (21)	12 (1020)	18,000 yds	5,200 ts	B 6.0"		
2x 3.4"/45 U2 (86)	20 ( 800)	12,500 yds	476 ft	C 4.0"	3.1" C	

ELBING	1915 (2)	28 kts (10)	144 DP	D 3.0"	2x20.0"* (72)	( 2x3.4"AA= 4)
8x 5.9"/45 P3 (18)	12 (1020)	18,000 yds	4,350 ts	B 4.0"		
2x 3.4"/45 U2 (72)	20 ( 800)	12,500 yds	444 ft	C 4.0"	3.0" C	
BREMSE	1916 (2)	34 kts (7)	132 DP	D 1.2"	4x20.0"* (33)	( 2x3.4"AA= 4)
4x 5.9"/45 P3 (33)	12 ( 520)	18,000 yds	4,000 ts	B 1.5"	360 mines	
2x 3.4"/45 U2 (66)	20 ( 800)	12,500 yds	460 ft	C 3.0"	1.7" C	
KONIGSBERG 2	1916 (4)	28 kts (13)	182 DP	D 2.0"	4x20.0"* (45)	( 2x3.4"AA= 4)
8x 5.9"/45 P3 (22)	12 (1020)	18,000 yds	5,500 ts	B 2.5"	120 mines	
2x 3.4"/45 U2 (91)	20 ( 800)	12,500 yds	497 ft	C 3.0"	2.1" C	
EMDEN	1926 (1)	28 kts (13)	185 DP	D 1.5"	4x21.0" (46)	( 3x3.4"AA= 6)
8x 5.9"/45 P3 (23)	12 ( 960)	18,750 yds	5,600 ts	B 2.0"	5,300nm/18	( 4x37mmAA= 4)
3x 3.4"/45 U2 (61)	20 (1200)	12,500 yds	493 ft	C 3.0"	120 mines	
			1.9" B			
KONIGSBERG	1929 (3)	32 kts (13)	219 DP	D 1.5"	12x21.0" (18)	( 6x3.5"AA=14)
9x 5.9"/60 P1 (24)	12 (1080)	26,800 yds	6,650 ts	B 2.0"	5,200nm/18	( 8x37mmAA= 8)
6x 3.5"/76 T3 (36)	30 (2400)	19,250 yds	554 ft	C 3.0"	AC: 2 C: 1	( 4x20mmAA= 6)
			1.9" A	T 1.2"		
LEIPZIG	1930 (1)	32 kts (14)	221 DP	B 2.0"	12x21.0" (18)	( 6x3.5"AA=14)
9x 5.9"/60 P1 (24)	12 (1080)	26,800 yds	6,710 ts	C 2.0"	5,700nm/18	( 8x37mmAA= 8)
6x 3.5"/76 T3 (36)	30 (2400)	19,250 yds	563 ft	T 1.2"	AC: 2 C: 1	(10x20mmAA=15)
			1.6" A			
NURNBERG	1935 (1)	32 kts (14)	230 DP	B 2.0"	12x21.0" (19)	( 8x3.5"AA=19)
9x 5.9"/60 P1 (25)	12 (1080)	26,800 yds	6,980 ts	C 3.0"	5,700nm/18	( 8x37mmAA= 8)
8x 3.5"/76 T3 (28)	30 (3200)	19,250 yds	568 ft	T 1.2"	AC: 2 C: 1	( 4x20mmAA= 6)
			1.8" A			

DESTROYERS

S90 Class	1900 (24)	28 kts (1)	25 DP	207 ft	3x17.7" (8)
3x 1.9"/40 X1 (8)	40 ( 300)	3,500 yds	380 ts		
G108 Class	1902 (12)	28 kts (1)	25 DP	216 ft	3x17.7" (8)
3x 1.9"/40 X1 (8)	40 ( 300)	3,500 yds	400 ts		
S126 Class	1905 (11)	28 kts (1)	25 DP	214 ft	3x17.7" (8)
4x 1.9"/40 X1 (6)	40 ( 400)	3,500 yds	460 ts		
S138 Class	1907 (12)	30 kts (1)	25 DP	232 ft	3x17.7" (8)
1x 3.4"/35 U3 (13)	18 ( 120)	5,000 yds	650 ts		
V150 Class	1908 (12)	30 kts (1)	25 DP	238 ft	3x17.7" (8)
2x 3.4"/35 U3 (13)	18 ( 160)	5,000 yds	650 ts		
V162 Class	1909 (3)	34 kts (1)	25 DP	242 ft	3x17.7" (8)
2x 3.4"/35 U3 (13)	18 (160)	5,000 yds	690 ts		
S165 Class	1911 (9)	32 kts (1)	25 DP	244 ft	4x17.7" (6)
2x 3.4"/35 U3 (13)	18 (160)	5,000 yds	750 ts		
S176 Class	1911 (22)	34 kts (1)		244 ft	4x20.0" (6)
2x 3.4"/35 U3 (13)	18 (160)	5,000 yds	760 ts		

V1 Class	1912 (24)	32 kts (1)	25 DP	235 ft	4x20.0" (6)	
2x 3.4"/45 U3 (13)	20 (160)	12,500 yds	680 ts		18 mines	
V25 Class	1914 (28)	36 kts (1)	30 DP	261 ft	6x20.0" (5)	
3x 3.4"/45 U3 (10)	20 (300)	12,500 yds	900 ts		24 mines	
S53 Class	1915 (32)	36 kts (2)	36 DP	273 ft	6x20.0" (6)	
3x 4.1"/45 T3 (12)	18 (300)	13,500 yds	1,100 ts		24 mines	
B97 Class	1915 (4)	36 kts (3)	56 DP	321 ft	6x20.0" (9)	
4x 4.1"/45 T3 (14)	18 (360)	13,500 yds	1,700 ts		24 mines	
G101 Class	1915 (8)	34 kts (3)	53 DP	312 ft	6x20.0" (8)	
4x 4.1"/45 T3 (13)	18 (360)	13,500 yds	1,600 ts		24 mines	
V125 Class	1917 (18)	36 kts (2)	36 DP	269 ft	6x20.0" (6)	
3x 4.1"/45 T3 (12)	18 (300)	13,500 yds	1,100 ts		40 mines	
Z1 to Z16 Class	1937 (16)	38 kts (3)	74 DP	374 ft	8x21.0" (9)	( 4x37mmAA= 4)
5x 5.0"/45 S3 (14)	24 (600)	18,500 yds	2,232 ts		60 mines	4,400nm/18
Z17 to Z22 Class	1939 (6)	38 kts (4)	80 DP	394 ft	8x21.0" (10)	( 4x37mmAA= 4)
5x 5.0"/45 S3 (16)	24 (600)	18,500 yds	2,411 ts		60 mines	4,850nm/18
Z23 to Z34 Class	1940 (12)	38 kts (4)	86 DP	400 ft	8x21.0" (10)	( 6x37mmAA= 6)
4x 5.9"/48 P2 (21)	14 (480)	24,500 yds	2,603 ts		60 mines	( 8x20mmAA=12)
		All except Z28 had 5x5.9" from late 1942 on.				5,000nm/18
Z35 to Z36 Class	1943 (2)	38 kts (4)	83 DP	400 ft	8x21.0" (10)	( 6x37mmAA= 9)
5x 5.0"/45 S3 (16)	24 (600)	18,500 yds	2,527 ts		76 mines	(13x20mmAA=20)
						5,900nm/18

## GREAT BRITAIN

### BATTLESHIPS & BATTLECRUISERS

BARFLEUR	1893 (2)	16 kts (43)	347 DP	D 2.5"	3x18.0"* (115)
4x10.0"/32 K3 (86)	1 ( 320)	10,800 yds	10,500 ts	B 12.0"	6,500nm/10
10x 6.0"/40 P4 (34)	12 (1800)	9,700 yds	360 ft	C 12.0"	
8x 2.2"/40 X1 (43)	40 (2400)	5,000 yds	8.1" F	T 6.0"	
TRAFALGAR	1890 (2)	16 kts (49)	394 DP	D 3.0"	4x14.0"* (98)
4x13.5"/30 F2 (98)	1 ( 320)	13,500 yds	11,940 ts	B 20.0"	6,500nm/10
6x 6.0"/40 P4 (65)	12 (1080)	9,700 yds	345 ft	C 14.0"	
8x 2.2"/40 X1 (49)	40 (2400)	5,000 yds	11.5" F	T 9.0"	
HOOD	1893 (1)	16 kts (58)	469 DP	D 3.0"	3x18.0"* (156)
4x13.5"/30 F2 (117)	1 ( 320)	13,500 yds	14,200 ts	B 18.0"	
10x 6.0"/40 P4 (46)	12 (1800)	9,700 yds	380 ft	C 14.0"	
10x 2.2"/40 X1 (46)	40 (3000)	5,000 yds	11.0" F	T 9.0"	
ROYAL SOVEREIGN	1892 (7)	16 kts (58)	465 DP	D 3.0"	3x18.0"* (155)
4x13.5"/30 F2 (116)	1 ( 320)	13,500 yds	14,100 ts	B 18.0"	4,720nm/10
10x 6.0"/40 P4 (46)	12 (1800)	9,700 yds	380 ft	C 14.0"	
16x 2.2"/40 X1 (29)	40 (4480)	5,000 yds	9.0" F	T 1.0"	

MAJESTIC	1895 (9)	14 kts (67)	469 DP	D	4.0"	5x18.0"* (93)
4x12.0"/35 H5 (117)	2 ( 320)	14,900 yds	14,200 ts	B	9.0"	4,700nm/10
12x 6.0"/40 P4 (39)	12 (2160)	9,700 yds	390 ft	C	14.0"	
16x 3.0"/28 U3 (29)	24 (3520)	5,500 yds	8.1" D	T	5.5"	
CANOPUS	1899 (6)	14 kts (61)	427 DP	D	2.5"	4x18.0"* (107)
4x12.0"/35 H5 (106)	2 ( 320)	14,900 yds	12,950 ts	B	6.0"	4,500nm/10
12x 6.0"/40 P4 (35)	12 (2160)	9,700 yds	390 ft	C	12.0"	
10x 3.0"/28 U3 (42)	24 (1800)	5,500 yds	6.2" D	T	4.5"	
FORMIDABLE	1901 (8)	18 kts (51)	465 DP	D	3.0"	4x18.0"* (116)
4x12.0"/40 H4 (116)	2 ( 320)	15,600 yds	14,100 ts	B	9.0"	3,000nm/10
12x 6.0"/45 P3 (38)	12 (2160)	13,500 yds	411 ft	C	12.0"	
16x 3.0"/40 U3 (29)	26 (2880)	9,000 yds	7.4" C	T	5.5"	
DUNCAN	1901 (6)	18 kts (49)	446 DP	D	2.5"	4x18.0"* (111)
4x12.0"/40 H4 (111)	2 ( 320)	15,600 yds	13,500 ts	B	7.0"	3,000nm/10
12x 6.0"/45 P3 (37)	12 (2160)	13,500 yds	405 ft	C	12.0"	
12x 3.0"/40 U3 (37)	26 (2160)	9,000 yds	6.3" C	T	3.5"	
TRIUMPH	1904 (2)	18 kts (43)	389 DP	D	3.0"	2x18.0"* (194)
4x10.0"/45 K1 (97)	2 ( 320)	14,700 yds	11,800 ts	B	7.0"	6,250nm/10
14x 7.5"/50 N1 (27)	9 (1400)	13,500 yds	436 ft	C	10.0"	
14x 3.0"/40 U3 (27)	26 (2520)	9,000 yds	6.1" C	T	4.5"	
KING EDWARD VII	1903 (8)	18 kts (56)	502 DP	D	2.4"	4x18.0"* (125)
4x12.0"/40 H4 (125)	2 ( 320)	16,000 yds	15,200 ts	B	9.0"	7,000nm/10
4x 9.2"/45 L1 (125)	5 ( 320)	14,500 yds	425 ft	C	12.0"	
10x 6.0"/45 P3 (50)	12 (1800)	13,500 yds	7.0" C	T	4.5"	
14x 3.0"/40 U3 (35)	26 (2520)	9,000 yds				
DREADNOUGHT	1906 (1)	20 kts (59)	591 DP	D	3.0"	5x18.0"* (118)
10x12.0"/45 H3 (59)	3 ( 900)	16,500 yds	17,900 ts	B	11.0"	6,620nm/10
24x 3.0"/40 U3 (24)	26 (3600)	9,000 yds	502 ft	C	11.0"	
			7.8" C	T	6.0"	
LORD NELSON	1908 (2)	18 kts (60)	548 DP	D	2.0"	5x18.0"* (109)
4x12.0"/45 H3 (137)	3 ( 320)	16,500 yds	16,600 ts	B	12.0"	9,180nm/10
10x 9.2"/50 L1 (54)	5 ( 800)	16,300 yds	435 ft	C	12.0"	
24x 3.0"/40 U3 (22)	26 (3600)	9,000 yds	7.6" C	T	4.5"	
INVINCIBLE	1908 (3)	26 kts (43)	569 DP	D	3.2"	5x18.0"* (113)
8x12.0"/45 H3 (71)	3 ( 720)	16,500 yds	17,250 ts	B	6.0"	3,090nm/10
16x 4.0"/45 T3 (35)	20 (4000)	13,700 yds	530 ft	C	10.0"	
			5.7" C	T	4.0"	
BELLEROPHON	1909 (3)	22 kts (55)	614 DP	D	4.2"	3x18.0"* (204)
10x12.0"/45 H3 (61)	3 ( 900)	16,500 yds	18,600 ts	B	10.0"	5,720nm/10
16x 4.0"/45 T3 (38)	20 (4800)	13,700 yds	520 ft	C	11.0"	
			7.1" C	T	4.5"	
ST. VINCENT	1909 (3)	22 kts (58)	645 DP	D	4.2"	3x18.0"* (215)
10x12.0"/50 H2 (61)	3 (1000)	21,000 yds	19,560 ts	B	10.0"	6,900nm/10
18x 4.0"/45 T3 (35)	20 (6000)	13,700 yds	520 ft	C	10.0"	
			7.3" C	T	6.0"	
NEPTUNE	1911 (1)	22 kts (59)	649 DP	D	4.2"	3x18.0"* (216)
10x12.0"/50 H2 (64)	3 (1000)	21,000 yds	19,680 ts	B	10.0"	6,330nm/10
16x 4.0"/45 T3 (40)	20 (4800)	13,700 yds	540 ft	C	10.0"	
			7.8" C	T	7.0"	

COLOSSUS	1911 (2)	22 kts (60)	667 DP	D 3.3"	3x21.0"* (222)
10x12.0"/50 H2 (66)	3 (1000)	21,000 yds	20,225 ts	B 11.0"	6,680nm/10
16x 4.0"/45 T3 (41)	20 (4800)	13,700 yds	540 ft	C 11.0"	
			8.0" C	T 7.0"	
INDEFATIGABLE	1911 (3)	26 kts (47)	611 DP	D 3.0"	2x18.0"* (305)
8x12.0"/45 H3 (76)	3 ( 720)	18,600 yds	18,500 ts	B 6.0"	6,330nm/10
16x 4.0"/45 T3 (38)	20 (4800)	13,700 yds	555 ft	C 10.0"	
			5.8" C	T 4.0"	
ORION	1912 (4)	22 kts (66)	733 DP	D 5.5"	3x18.0"* (244)
10x13.5"/45 F1 (73)	2 ( 900)	23,500 yds	22,200 ts	B 12.0"	6,730nm/10
16x 4.0"/45 T3 (45)	20 (4800)	13,700 yds	545 ft	C 11.0"	
			8.9" C	T 7.0"	
LION	1912 (3)	28 kts (61)	867 DP	D 3.5"	2x21.0"* (433)
8x13.5"/45 F1 (108)	2 ( 720)	23,500 yds	26,270 ts	B 9.0"	5,610nm/10
16x 4.0"/45 T3 (54)	20 (4800)	13,700 yds	660 ft	C 10.0"	
			7.4" C	T 7.0"	
KING GEORGE V	1913 (4)	22 kts (69)	759 DP	D 5.0"	3x21.0"* (253)
10x13.5"/45 F1 (75)	2 ( 900)	23,800 yds	23,000 ts	B 12.0"	6,730nm/10
16x 4.0"/45 T3 (47)	20 (4800)	13,700 yds	555 ft	C 11.0"	
			8.9" C	T 7.5"	
IRON DUKE	1914 (4)	22 kts (77)	852 DP	D 2.5"	4x21.0"* (213) (2x3.0"AA= 4)
10x13.5"/45 F1 (85)	2 ( 900)	23,800 yds	25,820 ts	B 12.0"	7,780nm/10
12x 6.0"/45 P3 (71)	12 (2400)	13,500 yds	580 ft	C 11.0"	
2x 3.0"/45 U2 (426)	20 ( 720)	11,200 yds	8.3" C	T 7.5"	
ERIN	1914 (1)	22 kts (68)	752 DP	D 3.0"	4x21.0"* (188)
10x13.5"/45 F1 (75)	2 ( 900)	22,505 yds	22,780 ts	B 12.0"	5,300nm/10
16x 6.0"/45 P3 (47)	12 (2880)	13,500 yds	525 ft	C 12.0"	
			8.6" C	T 7.5"	
AGINCOURT	1914 (1)	22 kts (82)	908 DP	D 2.5"	3x21.0"* (302)
14x12.0"/45 H3 (64)	3 (1120)	18,600 yds	27,500 ts	B 9.0"	4,400nm/10
20x 6.0"/45 P3 (45)	12 (3200)	13,500 yds	671 ft	C 12.0"	
10x 3.0"/45 U2 (90)	20 (3000)	10,000 yds	7.0" C	T 4.6"	
TIGER	1914 (1)	28 kts (67)	938 DP	D 3.0"	4x21.0"* (234) ( 2x3.0"AA= 4)
8x13.5"/45 F1 (117)	2 ( 720)	23,800 yds	28,430 ts	B 9.0"	4,650nm/10
12x 6.0"/45 P3 (78)	12 (2400)	13,500 yds	660 ft	C 10.0"	
2x 3.0"/45 U2 (469)	40 ( 720)	11,200 yds	7.2" C	T 6.6"	
CANADA	1915 (1)	22 kts (85)	944 DP	D 3.6"	4x21.0"* (236) ( 2x3.0"AA= 4)
10x14.0"/45 E2 (94)	2 ( 900)	24,000 yds	28,600 ts	B 9.0"	4,400nm/10
18x 6.0"/45 P3 (52)	12 (3600)	13,500 yds	625 ft	C 11.0"	
2x 3.0"/45 U2 (472)	40 ( 720)	11,200 yds	7.9" C	T 8.0"	
QUEEN ELIZABETH	1915 (5)	24 kts (80)	962 DP	D 3.0"	4x21.0"* (240) ( 2x3.0"AA= 4)
8x15.0"/42 D3 (120)	4 ( 800)	28,700 yds	29,150 ts	B 13.0"	8,500nm/12
12x 6.0"/45 P3 (60)	12 (1560)	13,500 yds	600 ft	C 11.0"	
2x 3.0"/45 U2 (481)	40 ( 720)	11,200 yds	8.6" C	T 7.6"	
ROYAL SOVEREIGN	1916 (5)	22 kts (84)	924 DP	D 3.0"	4x21.0"* (231) ( 2x3.0"AA= 4)
8x15.0"/42 D3 (115)	4 ( 800)	28,700 yds	28,000 ts	B 13.0"	
14x 6.0"/45 P3 (66)	12 (1820)	13,500 yds	580 ft	C 11.0"	
2x 3.0"/45 U2 (462)	40 ( 720)	11,200 yds	8.6" C	T 7.6"	

RENOWN	1916 (2)	30 kts (61)	924 DP	D 3.0"	2x21.0"* (462)	( 2x3.0"AA= 4)
6x15.0"/42 D3 (154)	4 ( 720)	23,500 yds	28,000 ts	B 6.0"	3,640nm/10	
15x 4.0"/45 T3 (71)	20 (1800)	13,500 yds	750 ft	C 10.0"		
2x 3.0"/45 U2 (462)	40 ( 300)	11,200 yds	6.4" C	T 6.6"		
COURAGEOUS	1917 (2)	30 kts (40)	614 DP	D 1.7"	2x21.0"* (307)	( 2x3.0"AA= 4)
4x15.0"/42 D3 (76)	4 ( 800)	23,500 yds	18,600 ts	B 3.0"		
18x 4.0"/45 T3 (34)	20 (2160)	13,500 yds	735 ft	C 10.0"		
2x 3.0"/45 U2 (307)	40 ( 300)	11,200 yds	5.8" C	T 8.6"		
HOOD	1920 (1)	30 kts (93)	1408 DP	D 4.2"	6x21.0"* (234)	( 4x4.0"AA=10)
8x15.0"/42 D3 (176)	4 ( 960)	29,000 yds	42,670 ts	B 12.0"	7,500nm/14	
12x 5.5"/50 Q1 (117)	24 (2400)	18,500 yds	850 ft	C 11.0"		
4x 4.0"/45 T3 (352)	28 ( 600)	13,700 yds	9.3" C	T 10.0"		
NELSON	1927 (2)	24 kts (92)	1106 DP	D 6.3"	2x24.5"* (553)	( 6x4.7"AA=17)
9x16.0"/45 C2 (122)	3 ( 900)	42,000 yds	33,500 ts	B 14.0"	7,000nm/16	( 8x40mmAA=15)
12x 6.0"/50 P2 ( 92)	16 (1800)	25,600 yds	660 ft	C 14.0"	AC: 2 C: 1	
6x 4.7"/43 S4 (184)	16 (1050)	16,000 yds	11.5" B	T 11.6"		
KING GEORGE V	1940 (5)	28 kts	1287 DP	D 5.0"		(16x5.2"AA=58)
10x14.0"/45 E2 (128)	4 (1000)	36,300 yds	39,000 ts	B 15.0"	5,310nm/18	
16x 5.25"/50 R1 (80)	15 (6400)	23,400 yds	700 ft	C 4.5"	AC: 4 C: 1	
			8.5" A	T 9.3"		

HEAVY & ARMORED CRUISERS

BLAKE	1890 (2)	20 kts (30)	302 DP	D 5.6"	4x14.0"* (75)	
2x 9.2"/32 L3 (151)	2 ( 200)	10,500 yds	9,150 ts	B 1.5"		
10x 6.0"/40 P4 (30)	10 (1000)	9,200 yds	375 ft	C 12.0"		
			5.7" F	T 3.6"		
CRESCENT	1892 (2)	20 kts (25)	254 DP	D 5.0"	2x18.0"* (127)	
1x 9.2"/32 L3 (127)	2 ( 100)	10,800 yds	7,700 ts	B 1.5"		
12x 6.0"/40 P4 (21)	14 (1200)	11,200 yds	390 ft	C 12.0"		
12x 2.2"/40 X1 (21)	40 (1800)	5,000 yds	5.5" F	T 3.6"		
EDGAR	1893 (7)	20 kts (25)	254 DP	D 5.0"	2x18.0"* (127)	
2x 9.2"/32 L3 (127)	2 (200)	10,800 yds	7,700 ts	B 1.5"		
10x 6.0"/40 P4 (25)	14 (1000)	11,200 yds	390 ft	C 12.0"		
12x 2.2"/40 X1 (21)	40 (1800)	5,000 yds	5.5" F	T 3.6"		
ECLIPSE	1896 (9)	20 kts (18)	185 DP	D 2.5"	3x18.0"* (61)	
11x 6.0"/40 P4 (16)	14 (1100)	11,200 yds	5,600 ts	C 6.0"		
9x 3.0"/28 U3 (20)	24 ( 900)	5,500 yds	364 ft	T 1.5"	2.8" D	
ARROGANT	1898 (4)	20 kts (19)	190 DP	D 3.0"	3x18.0"* (63)	
10x 6.0"/40 P4 (19)	12 (1000)	11,000 yds	5,750 ts	C 8.8"		
9x 3.0"/28 U3 (21)	24 ( 900)	5,500 yds	342 ft	T 2.0"	3.7" D	
DIADEM	1898 (8)	20 kts (36)	363 DP	D 4.0"	2x18.0"* (181)	
16x 6.0"/40 P4 (22)	12 (1600)	11,000 yds	11,000 ts	C 12.0"		
14x 3.0"/28 U3 (25)	24 (1400)	5,500 yds	450 ft	T 3.5"	5.1" D	
POWERFUL	1898 (2)	22 kts (42)	469 DP	D 6.0"	4x18.0"* (117)	
2x 9.2"/40 L2 (234)	5 ( 200)	13,400 yds	14,200 ts	B 1.4"		
16x 6.0"/40 P4 (29)	12 (1600)	11,000 yds	520 ft	C 12.0"		
18x 3.0"/28 U3 (26)	24 (1800)	5,500 yds	5.7" D	T 3.5"		

HIGHFLYER	1900 (3)	20 kts (18)	185 DP	D	3.0"	2x18.0"* (92)	
11x 6.0"/40 P4 (16)	12 (1100)	11,000 yds	5,600 ts	C	6.0"		
9x 3.0"/28 U3 (20)	24 ( 900)	5,500 yds	370 ft	T	1.6"	2.9" D	
CRESSY	1901 (6)	22 kts (36)	396 DP	D	3.0"	2x18.0"* (198)	
2x 9.2"/47 L1 (198)	5 ( 200)	14,500 yds	12,000 ts	B	6.0"		
12x 6.0"/45 P3 (33)	12 (1200)	13,500 yds	454 ft	C	12.0"		
14x 3.0"/40 U3 (28)	26 (1400)	9,000 yds	6.1" C	T	3.5"		
DRAKE	1902 (4)	24 kts (38)	465 DP	D	3.0"	2x18.0"* (232)	
2x 9.2"/47 L1 (232)	5 ( 200)	14,500 yds	14,100 ts	B	6.0"		
16x 6.0"/45 P3 (29)	12 (1600)	13,500 yds	515 ft	C	12.0"		
14x 3.0"/40 U3 (33)	26 (1400)	9,000 yds	6.0" C	T	3.0"		
MONMOUTH	1903 (10)	24 kts (27)	323 DP	D	2.0"	2x18.0"* (161)	
14x 6.0"/45 P3 (23)	12 (1400)	13,500 yds	9,800 ts	B	4.0"		
10x 3.0"/40 U3 (32)	26 (1500)	9,000 yds	440 ft	C	10.0"		
			4.8" C	T	3.0"		
DEVONSHIRE	1904 (6)	24 kts (30)	358 DP	D	2.0"	2x18.0"* (179)	
4x 7.5"/45 N2 (89)	5 ( 400)	13,900 yds	10,850 ts	B	6.0"		
6x 6.0"/45 P3 (59)	12 ( 900)	13,500 yds	450 ft	C	12.0"		
2x 3.0"/40 U3 (179)	26 ( 400)	9,000 yds	5.8" C	T	3.0"		
CHALLENGER	1905 (2)	22 kts (17)	195 DP	D	3.0"	2x18.0"* (97)	
11x 6.0"/45 P3 (17)	12 (1100)	13,600 yds	5,915 ts	C	6.0"		
9x 3.0"/40 U3 (21)	26 ( 900)	9,000 yds	360 ft	T	1.8"	2.2" C	
BLACK PRINCE	1905 (2)	22 kts (40)	447 DP	D	1.5"	3x18.0"* (149)	
6x 9.2"/47 L1 (74)	5 ( 600)	14,500 yds	13,550 ts	B	6.0"		
10x 6.0"/50 P2 (44)	12 (1000)	13,000 yds	480 ft	C	7.0"		
			4.8" C	T	4.5"		
WARRIOR	1907 (4)	22 kts (40)	447 DP	D	1.5"	3x18.0"* (149)	
6x 9.2"/47 L1 (74)	5 ( 600)	14,500 yds	13,550 ts	B	6.0"		
4x 7.5"/50 N1 (111)	5 ( 400)	14,000 yds	480 ft	C	7.0"		
			4.8" C	T	4.5"		
MINOTAUR	1908 (3)	24 kts (40)	482 DP	D	1.5"	5x18.0"* (96)	
4x 9.2"/50 L1 (120)	5 ( 400)	16,400 yds	14,600 ts	B	6.0"		
10x 7.5"/50 N1 (48)	5 (1000)	14,000 yds	519 ft	C	8.0"		
14x 3.0"/40 U3 (34)	30 (1680)	9,000 yds	5.0" C	T	4.5"		
HAWKINS	1919 (2)	30 kts (21)	314 DP	D	1.5"	4x21.0" (78)	( 4x3.0"AA= 9)
7x 7.5"/45 N2 (44)	7 (1050)	21,400 yds	9,520 ts	B	3.0"		( 2x40mmAA= 4)
10x 3.0"/45 U2 (31)	40 (3000)	11,200 yds	565 ft	C	3.0"	AC: 1 C: 1	2.1" C
VINDICTIVE	1918 (1)	30 kts (21)	314 DP	D	1.5"	4x21.0" (78)	( 4x3.0"AA= 9)
5x 7.5"/45 N2 (62)	7 ( 750)	21,400 yds	9,520 ts	B	3.0"		( 2x40mmAA= 4)
8x 3.0"/45 U2 (39)	40 (2400)	11,200 yds	565 ft	C	3.0"		2.1" C
FROBISHER	1924 (2)	30 kts (21)	314 DP	D	1.5"	4x21.0" (78)	( 3x4.0"AA= 8)
7x 7.5"/45 N2 (44)	7 (1050)	21,400 yds	9,520 ts	B	3.0"		( 2x40mmAA= 4)
3x 4.0"/45 T3 (104)	22 ( 450)	16,000 yds	565 ft	C	3.0"	AC: 1 C: 1	2.1" C
KENT	1928 (7)	32 kts (20)	323 DP	D	1.5"	8x21.0" (40)	( 4x4.0"AA=10)
8x 8.0"/50 M3 (40)	12 (1200)	29,200 yds	9,800 ts	B	4.4"	13,300nm/12	( 4x40mmAA= 8)
4x 4.0"/45 T3 (80)	22 ( 800)	16,000 yds	590 ft	C	3.0"	AC: 1 C: 1	2.5" B