

BRITAIN								Fire Control				MAIN BTTY						SEC BTTY						TER BTTY						Belt		Deck		TF		TT		SB		TB		Speed	TORPEDO		MNTS		Point
Type	Class	Navv	Date	HULL	SS	FLT	#	Turrets	DCT	AFC	Cal	FP	Ver	Hor	Rng	(Kvds)	Types	Load	Cal	FP	Ver	Hor	Rng	(Kvds)	Types	Load	Cal	FP	Ver	Hor	Rng	(Kvds)	Types	Load	Factor	Factor	Factor	Factor	PR	PR	Knts	Mnts	# per	Dmg	Value		
BB	Agincourt	RN	1914	56	19	42	7/20/10	1917	---	---	12"	12	5	4	18.4	A,C,H	18		6"	5	2	2	13.4	C,H	9		3"	3	0	0	10.0	H			4	2	5	4	2	0	22	3	1	8	11		
BB	Bellerophon	RN	1909	47	16	35	5/16/-	1916	---	---	12"	9	5	4	16.6	A,C,H	18		4"	3	1	0	10.4	C,H	14												5	3	4	3	2	21	3	1	8	7	
BB	Canada	RN	1915	58	23	52	5/16/-	1915	---	---	14"	16	6	6	24.2	A,C	17		6"	5	2	2	14.2	C,H	11												4	3	4	3	2	23	4	1	8	15	
BB	Colossus	RN	1911	48	19	43	5/16/-	1915	---	---	12"	9	5	4	21.2	A,C,H	18		4"	3	1	0	10.4	C,H	14												4	3	4	3	1	21	3	1	8	8	
BB	Dreadnought	RN	1916r	47	19	42	5/10/-	1916	---	---	12"	9	5	4	18.8	A,C,H	18		3"	2	0	0	10.0	H	4												4	2	4	3	0	21	4	1	8	7	
BB	Erin	RN	1914	52	21	47	5/16/-	1917	---	---	13.5"	14	6	5	23.0	A,C,H	15		6"	5	2	2	14.6	C,H	10												4	2	4	3	2	21	4	1	8	12	
BB	Iron Duke	RN	1914	56	22	50	5/12/-	1914	1914	1914	13.5"	14	6	5	23.2	A,C,H	15		6"	4	2	2	13.4	C,H	11												5	2	4	3	2	21	4	1	8	12	
BB	King George V	RN	1913	52	21	47	5/16/-	1914	1914	1914	13.5"	14	6	5	23.2	A,C,H	15		4"	3	1	0	10.4	C,H	14												5	3	4	3	1	21	2	1	8	12	
BB	Neptune	RN	1911	47	19	43	5/16/-	1912	---	---	12"	9	5	4	21.2	A,C,H	18		4"	3	1	0	10.4	C,H	14												4	2	4	3	0	22	3	1	8	8	
BB	Orion	RN	1912	52	21	47	5/16/-	1913	1915	1915	13.5"	14	6	5	23.0	A,C,H	15		4"	3	1	0	10.4	C,H	14												4	3	4	3	1	22	3	1	8	12	
BB	Queen Elizabeth	RN	1915	58	23	52	4/14/-	1915	1915	1915	15"	16	7	6	23.8	A,C,H	17		6"	4	2	2	13.4	C,H	7												5	4	5	4	2	24	4	1	8	15	
BB	Revenge	RN	1916	57	23	51	4/14/-	1916	1916	1916	15"	16	7	6	23.0	A,C,H	17		6"	4	2	2	13.4	C,H	7												5	4	5	4	2	22	4	1	8	15	
BB	St. Vincent	RN	1910	48	19	43	5/20/-	1916	---	---	12"	9	5	4	21.2	A,C,H	18		4"	3	1	0	10.4	C,H	14												4	2	4	3	2	21	3	1	8	8	
OB	Canopus	RN	1900	37	15	33	2/12/10	---	---	---	12"	6	4	4	13.8	A	27		6"	4	1	1	9.8	C,H	10		3"	2	0	0	8.0	H			6	2	1	3	2	2	0	18	4	1	8	4	
OB	Duncan	RN	1903	38	15	34	2/12/10	---	---	---	12"	6	4	4	15.0	A,C,H	27		6"	4	1	1	12.6	C,H	10		3"	2	0	0	8.0	H			6	2	1	3	2	2	0	18	4	1	8	5	
OB	King Edward VII	RN	1905	40	16	36	2/4/10	---	---	---	12"	6	4	4	15.6	A,C,H	27		9.2"	3	3	3	15.0	A,C	13		6"	4	1	1	13.4	C,H			6	3	2	4	2	2	2	19	4	1	8	6	
OB	Lord Nelson	RN	1908	42	17	38	2/6/24	1917	---	---	12"	6	5	4	16.4	A,C,H	18		9.2"	6	3	3	16.2	A,C	13		3"	2	0	0	8.0	H			5	4	3	4	2	2	0	18	5	1	8	6	
BC	Courageous	RN	1917	48	19	43	2/6/-	1917	1917	1917	15"	11	7	6	23.6	A,C,H	20		4"	3	1	0	13.4	C,H	6												1	1	5	4	0	31	2	1	8	10	
BC	Indefatigable	RN	1912	47	19	43	4/16/-	1916	---	---	12"	9	5	4	18.4	A,C,H	18		4"	3	1	0	10.4	C,H	14												2	2	3	2	1	26	3	1	8	7	
BC	Invincible	RN	1909	43	17	39	4/16/-	1916	---	---	12"	8	5	4	16.4	A,C,H	18		4"	3	1	0	9.4	C,H	12												2	2	3	2	0	26	5	1	8	7	
BC	Lion	RN	1912	54	22	49	4/16/-	1915	1917	1917	13.5"	12	6	5	23.0	A,C,H	15		4"	3	1	0	11.6	C,H	14												3	2	3	2	1	27	2	1	8	10	
BC	Queen Mary	RN	1913	56	22	50	4/16/-	1915	1915	1915	13.5"	12	6	5	23.0	A,C,H	15		4"	3	1	0	10.4	C,H	14												3	2	3	2	2	28	2	1	8	11	
BC	Renown	RN	1916	55	22	50	3/7/-	1917	1917	1917	15"	14	7	6	23.6	A,C,H	20		4"	3	1	0	13.4	C,H	6												2	2	4	3	0	31	4	1	8	13	
BC	Tiger	RN	1914	59	24	53	4/12/-	1915	1915	1915	13.5"	12	6	5	23.0	A,C,H	15		6"	4	2	2	13.2	C,H	11												3	2	3	2	2	28	4	1	8	11	
MN	Abercrombie	RN	1915	26	11	21	1/2/-	1915	---	---	14"	6	6	6	19.8	A	27		3"	1	0	0	8.0	H	5												2	1	4	3	0	7				3	
MN	Lord Clive	RN	1915	26	11	21	1/2/-	1915	---	---	12"	4	5	4	22.8	A,H	33		3"	1	0	0	9.2	H	5												2	1	4	3	0	8				2	
AC	Cressy	RN	1902	34	14	27	2/12/12	---	---	---	9.2"	4	3	3	15.0	A,C	12		6"	4	2	2	12.6	C,H	6		3"	2	0	0	8.0	H			3	2	2	4	2	2	0	21	2	1	8	3	
AC	Devonshire	RN	1905	33	13	25	4/6/2	---	---	---	7.5"	5	2	2	14.0	A	12		6"	3	2	2	13.2	C,H	8		3"	1	0	0	8.0	H			6	2	1	2	2	2	0	22	2	1	8	3	
AC	Drake	RN	1903	37	15	29	2/16/14	---	---	---	9.2"	4	3	3	15.0	A,C	12		6"	4	2	2	12.6	C,H	6		3"	2	0	0	8.0	H			3	2	2	2	2	2	0	24	2	1	8	4	
AC	Duke of Edinburgh	RN	1906	36	14	28	6/10/-	---	---	---	9.2"	7	3	3	15.0	A,C	12		6"	4	2	2	12.6	C,H	8												2	1	2	2	2	23	3	1	8	5	
AC	Minotaur	RN	1908	37	15	29	2/10/16	1917	---	---	9.2"	6	3	3	16.2	A,C	12		7.5"	5	2	3	14.2	A	8		3"	2	0	0	8.0	H			4	2	1	3	2	2	0	23	5	1	8	5	
AC	Monmouth	RN	1904	31	12	24	12/10/-	---	---	---	6"	6	2	2	14.6	C,H	11		3"	2	0	0	8.0	H	4												1	1	2	1	2	23	2	1	8	4	
AC	Warrior	RN	1907	36	14	28	6/4/-	1917	---	---	9.2"	7	3	3	15.0	A,C	12		7.5"	3	2	3	14.2	A	8												2	1	3	1	2	23	3	1	8	4	
CL	Active	RN	1913	22	9	16	10/-/-	---	---	---	4"	3	1	0	14.2	C,H	10																				0	1	0	0		25	2	1	8	2	
CL	Arethusa	RN	1915	22	9	16	2/6/-	1916	---	---	6"	3	2	2	13.6	C,H	11		4"	2	1	0	11.4	C,H	10												1	1	0	0	0	28	2	2	10	2	
CL	Birkenhead	RN	1915	26	10	19	10/-/-	1917	---	---	5.5"	6	1	1	13.0	C,H	7																				1	1	0	0	0	26	2	1	10	3	
CL	Birmingham	RN	1914	26	11	19	9/-/-	---	---	---	6"	5	2	2	15.6	C,H	11																				1	1	0	0		25	2	1	10	3	
CL	Blonde	RN	1911	21	8	15	10/-/-	---	---	---	4"	3	1	0	10.4	C,H	10																				0	1	0	0		24	2	1	8	2	
CL	Boadicea	RN	1910	20	8	15	6/-/-	---	---	---	4"	3	1	0	10.4	C,H	10																				0	1	0	0		25	2	1	8	2	
CL	Bristol	RN	1910	24	10	18	2/10/-	---	---	---	6"	3	2	2	13.4	C,H	11		4"	3	1	0	11.6	C,H	4												0	1	0	0	0	26	2	1	8	2	
CL	Caledon/Ceres	RN	1917	24	10	17	5/-/-	1917	---	---	6"	5	2	1	18.6	C,H	11																				1	1	0	0		29	2	1	10	3	
CL	Calliope	RN	1915	23	9	17	2/8/-	1916	---	---	6"	3	2	2	13.6	C,H	11		4"	2	1	0	11.4	C,H	10																						

GERMANY							#	Fire Control Dates			MAIN BTTY							SEC BTTY							TER BTTY							Belt	Deck	TF	TT					Speed	TORPEDO MNTS				Point	
Type	Class	Navy	Date	HULL	SS	ELT	Turrets	DCT	AFC	Cal	EP	Ver	Hor	Rng	Types	Ammo	Load	Cal	EP	Ver	Hor	Rng	Types	Ammo	Load	Cal	EP	Ver	Hor	Rng	Types	Ammo	Load	Factor	Armor	Factor	Armor	Factor	SB	TB	Knts	Mnts	#_per	Dmg	Value	
BB	Bayern	KM	1916	61	24	55	4/16/8	1916	---	15"	16	7	6	22.2	A	13		5.9"	4	2	2	15.8	C.H	12		3.5"	2	0	0	12.8	H	18		6	4	6	5	2	0	22	5	1	12	16		
BB	Helgoland	KM	1912	55	22	49	6/14/14	1915	---	12"	12	5	4	17.6	A.C	11		5.9"	4	2	2	16.2	C.H	11		3.5"	3	1	0	11.6	H	13		5	2	4	3	2	0	21	6	1	12	10		
BB	Kaiser	KM	1913	57	23	51	5/14/8	1915	---	12"	13	5	4	17.6	A.C	11		5.9"	4	2	2	16.2	C.H	12		3.5"	2	1	0	11.6	H	13		6	3	5	3	2	0	21	5	1	12	10		
BB	Konig	KM	1915	59	24	53	5/14/6	1915	---	12"	13	5	4	20.2	A.C	12		5.9"	4	2	2	15.8	C.H	12		3.5"	2	1	0	11.6	H	13		6	3	5	3	2	0	21	5	1	12	12		
BB	Nassau	KM	1910	49	20	44	6/12/16	1911	---	11.1"	11	4	4	20.6	A	8		5.9"	3	2	2	16.2	C.H	11		3.5"	3	1	0	11.6	H	13		5	2	4	3	2	0	20	6	1	10	9		
OB	Braunschweig	KM	1904	42	17	38	2/14/18	---	---	11"	6	4	4	20.4	A	14		6.7"	5	2	2	16.2	C.H	12		3.5"	3	1	0	10.6	H	15		3	2	3	2	2	0	18	6	1	8	5		
OB	Deutschland	KM	1906	43	17	39	2/14/20	1912	---	11"	6	4	4	20.4	A	14		6.7"	5	2	2	13.4	C.H	12		3.5"	3	1	0	10.6	H	15		4	2	3	2	2	0	18	6	1	8	5		
OB	Wittelsbach	KM	1904	40	16	36	2/12/12	---	---	9.5"	5	3	3	18.4	A	9		5.9"	4	1	1	15.2	C.H	13		3.5"	3	1	0	7.6	H	15		3	2	2	2	2	0	17	6	1	8	4		
BC	Derfflinger	KM	1915	60	24	54	4/12/4	1915	---	12"	13	5	4	17.6	A.C	11		5.9"	3	2	2	15.8	C.H	11		3.5"	1	1	0	11.6	H	16		5	2	4	3	2	0	26	4	1	12	11		
BC	Hindenburg	KM	1917	60	24	54	4/14/4	1917	---	12"	13	5	4	22.2	A.C	11		5.9"	4	2	2	15.8	C.H	11		3.5"	1	0	0	11.6	H	16		5	2	4	3	2	0	27	4	1	12	11		
BC	Moltke	KM	1912	55	22	49	5/12/12	1913	---	11.1"	13	4	4	19.6	A	9		5.9"	3	2	2	16.2	C.H	12		3.5"	3	1	0	11.6	H	13		4	2	4	2	2	0	27	4	1	12	9		
BC	Seydlitz	KM	1913	58	23	52	5/12/12	1913	---	11.1"	13	4	4	19.6	A	10		5.9"	3	2	2	16.2	C.H	12		3.5"	3	1	0	11.6	H	13		5	2	4	3	2	0	27	4	1	12	10		
BC	Von Der Tann	KM	1911	51	20	44	4/10/16	1912	---	11.1"	11	4	4	20.6	A	9		5.9"	3	2	2	16.2	C.H	14		3.5"	3	1	0	11.6	H	13		4	2	4	2	2	0	26	4	1	12	9		
AC	Blucher	KM	1910	43	17	33	6/8/16	1913	---	8.3"	8	3	3	20.8	A	7		5.9"	3	2	2	16.2	C.H	12		3.5"	3	1	0	11.6	H	6		3	1	3	2	2	0	25	4	1	12	6		
AC	Prinz Adalbert	KM	1904	31	12	24	2/10/12	---	---	8.3"	6	3	3	18.2	A	7		5.9"	3	2	2	15.2	C.H	7		3.5"	3	1	0	9.8	H	7		2	1	2	2	2	0	20	4	1	10	4		
AC	Roon	KM	1905	31	13	25	2/10/14	---	---	8.3"	6	3	3	18.2	A	7		5.9"	3	2	2	15.2	C.H	14		3.5"	3	1	0	10.6	H	7		2	1	2	2	2	0	21	4	1	10	4		
AC	Scharnhorst	KM	1907	35	14	27	6/6/18	1912	---	8.3"	7	3	3	18.2	A	7		5.9"	2	2	2	13.4	C.H	14		3.5"	3	1	0	10.6	H	5		2	1	2	2	2	0	23	4	1	10	4		
CL	Bremen	KM	1904	20	8	14	10/-/-	---	---	4.1"	4	1	0	12.8	C.H	3																		0	2	0	0		23	2	1	10	2			
CL	Cohn	KM	1918	29	12	21	8/-/-	1918	---	5.9"	4	2	2	19.2	C.H	9																		1	1	0	0		28	4	1	12	3			
CL	Dresden	KM	1909	22	9	16	10/-/-	1914	---	4.1"	4	1	0	12.8	C.H	3																		0	1	0	0		25	2	1	10	3			
CL	Gazelle	KM	1901	17	7	12	10/-/-	---	---	4.1"	4	1	0	12.8	C.H	3																		0	1	0	0		20	3	1	10	3			
CL	Graudenz	KM	1915	27	11	19	7/-/-	1915	---	4.1"	4	1	0	13.8	C.H	3																		1	1	0	0		28	2	1	12	3			
CL	Hela	KM	1896	15	6	11	4/-/-	---	---	3.5"	3	1	0	7.2	H	6																		0	1	0	0		20	3	1	10	2			
CL	Karlsruhe	KM	1914	27	11	19	12/-/-	1914	---	4.1"	4	1	0	13.8	C.H	3																			1	1	0	0		28	2	1	12	3		
CL	Kolberg	KM	1910	23	9	17	12/-/-	1914	---	4.1"	4	1	0	13.8	C.H	3																			0	1	0	0		26	2	1	10	3		
CL	Kolberg-16	KM	1916	23	9	17	6/-/-	1916	---	5.9"	4	2	2	16.8	C.H	3																			0	1	0	0		26	2	1	10	3		
CL	Konigsberg-I	KM	1908	21	8	15	10/-/-	1913	---	4.1"	4	1	0	13.4	C.H	3																			0	1	0	0		24	2	1	10	3		
CL	Konigsberg-II	KM	1916	29	12	21	8/-/-	1916	---	4.1"	4	2	2	19.2	C.H	3																			1	1	0	0		28	4	1	12	3		
CL	Magdeburg	KM	1912	26	10	19	12/-/-	1913	---	4.1"	4	1	0	13.8	C.H	3																			1	1	0	0		28	2	1	12	3		
CL	Pillau	KM	1915	24	10	18	8/-/-	1915	---	5.9"	4	2	2	16.8	C.H	9																			0	1	0	0		27	2	1	12	2		
CL	Stralsund	KM	1916r	26	10	19	7/-/-	1916	---	5.9"	4	2	2	16.8	C.H	9																			1	1	0	0		28	2	1	12	3		
CL	Wiesbaden	KM	1915	28	11	20	8/-/-	1915	---	5.9"	4	2	2	16.8	C.H	9																			1	1	0	0		28	4	1	12	3		
DD	B97	KM	1915	15	6	10	4/-/-	1915	---	3.5"	3	1	0	11.6	H	3																			0	0	0	0		35	3	2	12	2		
DD	G101	KM	1914	14	5	9	4/-/-	1914	---	3.5"	3	1	0	11.6	H	3																			0	0	0	0		34	3	2	12	2		
DD	G169	KM	1908	9	4	6	2/-/-	---	---	3.5"	2	1	0	9.0	H	3																			0	0	0	0		33	3	1	10	2		
DD	G85	KM	1915	12	5	8	3/-/-	1915	---	4.1"	3	1	0	11.6	H	3																				0	0	0	0		34	3	2	12	2	
DD	S31 / V25 / G37	KM	1913	10	4	7	3/-/-	1915	---	3.5"	2	1	0	11.6	H	3																				0	0	0	0		34	3	2	12	2	
DD	S49	KM	1916r	10	4	7	3/-/-	1916	---	4.1"	3	1	0	11.6	H	3																					0	0	0	0		35	3	2	12	2
DD	V1/G7	KM	1911	8	3	5	2/-/-	1914	---	3.5"	2	1	0	9.0	H	3																				0	0	0	0		33	4	1	12	2	
DD	V125 / S131	KM	1917	12	5	8	3/-/-	1917	---	4.1"	3	1	0	12.8	H	3																				0	0	0	0		35	3	2	12	2	
DD	V180/G192	KM	1909	9	4	6	2/-/-	---	---	3.5"	2	1	0	9.0	H	3																				0	0	0	0		33	4	1	12	2	
DD	V43	KM	1915	12	5	8	3/-/-	1915	---	3.5"	3	1	0	11.6	H	3																				0	0	0	0		35	3	2	12	2	
DD	V67	KM	1915	12	5	8	3/-/-	1915	---	3.5"	3	1	0	11.6	H	3																				0	0	0	0		35	3	2	12	2	
FRANCE							#	Fire Control Dates			MAIN BTTY							SEC BTTY							TER BTTY							Belt	Deck	TF	TT					Speed	TORPEDO MNTS				Point	
Type	Class	Navy	Date	HULL	SS	ELT	Turrets	DCT	AFC	Cal	EP	Ver	Hor	Rng	Types	Ammo	Load	Cal	EP	Ver	Hor	Rng	Types	Ammo	Load																					

ITALY							#	Fire Control Dates			MAIN BTTY							SEC BTTY							TER BTTY							Belt	Deck	TF	TT	SF	TB	Speed	TORPEDO MNTS			Point												
Type	Class	Navy	Date	HULL	SS	FLT	Turrets	DCT	AFC	Cal	FP	Ver	Hor	Rng	Pen	K(yds)	Types	Ammo	Load	Cal	FP	Ver	Hor	Rng	Pen	K(yds)	Types	Ammo	Load	Cal	FP	Ver	Hor	Rng	Pen	K(yds)	Types	Ammo	Load	Factor	Armor	Armor	Armor	Armor	PR	PR	Knts	Mnts	# per	Dmg	Value			
BB	Andrea Doria	RM	1916	51	21	46	5/16/13	1916	---	12"	15	5	4	21.8	A	17				6"	4	2	2	13.6	C.H	8			3"	2	0	0	9.2	H	9			4	3	4	3	2	0	21	3	1	10	12						
BB	Conte Di Cavour	RM	1914	51	20	46	5/18/13	1915	---	12"	15	5	4	21.8	A	17				4.7"	3	1	1	12.0	C.H	10			3"	2	0	0	9.2	H	9			4	3	4	3	2	0	23	3	1	10	12						
BB	Dante Alighieri	RM	1913	48	19	43	4/16/13	1917	---	12"	14	5	4	26.2	A	17				4.7"	3	1	1	12.0	C.H	8			3"	2	0	0	9.2	H	6			4	1	4	3	2	0	22	3	1	10	12						
OB	Regina Elena	RM	1908	38	15	34	2/6/16	1916	---	12"	4	4	3	21.8	A	32				8"	4	3	3	19.8	A.H	13			3"	1	0	0	9.2	H	3			4	1	3	3	2	0	21	4	1	10	4						
AC	Garibaldi	RM	1901	28	11	22	1/1/14	---	---	10"	3	3	3	14.6	A	17				8"	2	3	3	11.4	A.H	13			6"	2	2	2	8.8	C.H	6			2	1	2	1	2	2	19	3	1	10	3						
AC	Pisa	RM	1910	33	13	26	2/4/16	1916	---	10"	6	4	4	14.6	A	13				7.5"	3	2	3	19.2	C.H	13			3"	2	0	0	8.8	H	5			3	2	2	2	2	0	23	3	1	10	4						
AC	San Giorgio	RM	1910	35	14	27	2/4/18	1916	---	10"	6	4	4	24.4	A	13				7.5"	3	2	3	19.2	C.H	13			3"	2	0	0	8.8	H	6			3	2	2	2	2	0	23	3	1	10	4						
AC	Vittor Pisani	RM	1899	26	11	21	12/4/-	---	---	6"	5	1	1	11.4	C.H	9				4.7"	2	1	1	10.6	C.H	7																		18	4	1	10	3						
CL	Bixio	RM	1914	22	9	16	6/6/-	1915	---	4.7"	3	1	1	12.1	C.H	4				3"	1	0	0	9.0	H	3																				27	2	1	10	2				
CL	Campania	RM	1917	19	8	14	6/2/-	1917	---	6"	3	2	2	11.4	C.H	9				3"	1	0	0	9.0	H	3																						15				1		
CL	Libia	RM	1913	22	9	16	2/8/-	1916	---	6"	2	2	2	11.4	C.H	8				4.7"	2	1	1	13.8	C.H	5																						22	2	1	10	2		
CL	Quarto	RM	1913	20	8	14	6/6/-	1916	---	4.7"	3	1	1	12.1	C.H	4				3"	1	0	0	9.0	H	3																						28	2	1	10	2		
DD	Aquila	RM	1917	15	6	10	3/4/-	1917	---	6"	3	2	2	11.4	C.H	6				3"	1	0	0	9.0	H	3																							36	2	2	10	2	
DD	Ardito	RM	1912	9	4	6	1/4/-	1917	---	4.7"	1	1	1	10.6	C.H	3				3"	1	0	0	8.2	H	3																							33	2	1	10	2	
DD	Audace	RM	1914r	10	4	7	1/4/-	---	---	4.7"	1	1	1	10.6	C.H	3				3"	1	0	0	8.2	H	3																							36	2	2	10	2	
DD	Indomito	RM	1912	9	4	6	1/4/-	---	---	4.7"	1	1	1	10.6	C.H	3				3"	1	0	0	8.2	H	3																							35	2	1	10	2	
DD	La Masa	RM	1917	10	4	7	4/2/-	1917	---	4"	3	1	0	12.8	C.H	4				3"	1	0	0	8.2	H	3																							33	2	2	10	2	
DD	Mirabello	RM	1916	15	6	10	8/-	1917	---	4"	3	1	0	12.8	C.H	6																																	35	2	2	10	2	
DD	Pilo	RM	1915	10	4	7	4/2/-	1915	---	3"	2	0	0	9.2	H	3				3"	1	0	0	6.4	H	3																							31	4	1	10	2	
DD	Poerio	RM	1915	12	5	8	6/-/-	1916	---	4"	3	1	0	12.8	C.H	6																																	32	2	2	10	2	
DD	Sitori	RM	1917	10	4	7	6/-/-	1917	---	4"	3	1	0	12.8	C.H	4																																	33	2	2	10	2	
DD	Soldati Series	RM	1908	6	3	4	4/-/-	1916	---	3"	2	0	0	9.2	H	3																																	29	3	1	10	1	
RUSSIA							#	Fire Control Dates			MAIN BTTY							SEC BTTY							TER BTTY							Belt	Deck	TF	TT	SF	TB	Speed	TORPEDO MNTS			Point												
Type	Class	Navy	Date	HULL	SS	FLT	Turrets	DCT	AFC	Cal	FP	Ver	Hor	Rng	Pen	K(yds)	Types	Ammo	Load	Cal	FP	Ver	Hor	Rng	Pen	K(yds)	Types	Ammo	Load	Cal	FP	Ver	Hor	Rng	Pen	K(yds)	Types	Ammo	Load	Factor	Armor	Armor	Armor	Armor	PR	PR	Knts	Mnts	# per	Dmg	Value			
BB	Gangut	RU	1914	52	21	47	4/16/-	1914	1914	12"	14	5	4	25.4	A,C,H	19				4.7"	4	1	1	15.2	C,H	11			3"	1	0	0	10.2	C,H	9			4	2	3	2	2	0	21	4	1	10	13						
OB	Admiral Ushakov	RU	1896	24	10	21	2/4/-	---	---	10"	3	3	3	12.6	A,H	25				4.7"	2	1	1	10.8	C,H	7																								16	4	1	6	3
OB	Borodino	RU	1904	36	14	33	2/6/20	---	---	12"	6	4	3	14.8	A,H	33				6"	4	2	2	12.0	A,H	8			3"	3	0	0	8.4	C,H	9			3	2	4	2	2	1	18	4	1	8	5						
OB	Borodino-11	RU	1911r	38	15	34	2/6/20	1915	---	12"	7	4	4	14.8	A,H	13				6"	4	2	2	15.4	A,H	11			3"	2	0	0	9.2	C,H	6			3	2	4	3	2	0	18	4	1	8	5						
OB	Evstafi	RU	1910	37	15	33	2/4/12	1914	---	12"	7	4	4	23.6	A,H	14				8"	4	2	3	15.0	A,C,H	9			6"	2	1	1	9.2	A,H	10			3	2	4	3	2	2	16	4	1	10	5						
OB	Imperator Alex II	RU	1891	33	13	30	1/4/8	---	---	12"	3	4	4	10.4	A,H	80				9"	2	3	3	10.0	C,H	27			6"	1	1	2	8.0	A,H	5			3	2	1	0	1	1	18	5	1	6	4						
OB	Imperator Pavel	RU	1913r	43	17	39	2/10/12	1914	---	12"	8	4	4	23.6	A,H	12				8"	5	2	3	16.8	A,C,H	11			4.7"	4	1	1	15.0	C,H	11			3	2	3	2	1	0	18	3	1	10	6						
OB	Navarin	RU	1896	34	14	31	2/8/-	---	---	12"	4	4	4	10.6	A,H	53				6"	2	1	1	8.0	A,H	7																						15	6	1	6	5		
OB	Peresviet	RU	1901	38	15	34	2/11/20	---	---	10"	3	3	3	18.8	A,H	25				6"	4	2	2	12.0	A,H	8			3"	3	0	0	8.4	C,H	9			3	1	2	2	2	1	18	5	1	6	5						
OB	Petrovavlovsk	RU	1899	37	15	33	2/8/-	---	---	12"	5	4	3	14.8	A,H	33				6"	4	1	1	12.0	A,H	8																						16	6	1	6	5		
OB	Potemkin	RU	1903	38	15	34	2/12/14	---	---	12"	5	4	3	14.8	A,H	33				6"	4	2	2	12.0	A,H	8			3"	2	0	0	8.4	C,H	9			3	2	4	2	2	1	16	5	1	6	5						
OB	Retvisan	RU	1902	38	15	35	2/12/20	---	---	12"	5	4	3	14.8	A,H	33				6"	4	2	2	12.0	A,H	8			3"	3	0	0	8.4	C,H	9			3	2	3	2	2	1	18	6	1	6	5						
OB	Sissoi Veliki	RU	1896	35	14	31	2/6/-	---	---	12"	5	4	4	14.8	A,H	35				6"	3	1	1	12.0	A,H	7																						15	6	1	6	5		
OB	Tsarevich	RU	1903	38	15	35	2/6/20	---	---	12"	5	4	3	14.8	A,H	33				6"	4	2	2	12.0	A,H	8			3"	3	0	0	8.4	C,H	9			4	2	4	2	2	1	18	4	1	8	5						
AC	Admiral Nakhimov	RU	1899r	31	13	25	4/10/-	---	---	8"	5	2	3	9.2	A,C,H	25				6"	2	1	1	8.0	A,H	5																						17	3	1	6	3		
AC	Bayan	RU	1903	29	12	22	2/8/20	---	---	8"	3	2	2	17.6	A,C,H	10				6"	3	2	2	17.0	A,H	7			3"	2	0	0	8.4	C,H	7			2	2	2	2	2	0	21	2	1	10	3						
AC	Dmitri Donskoi	RU	1895r	20	8	16	6/10/-	---	---	6"	5	1	1																																									

AUSTRIA-HUNGARY							#	Fire Control Dates			MAIN BTTY						SEC BTTY						TER BTTY						Belt	Deck	TF	TT	SB	TB	Speed	TORPEDO MNTS		Point										
Type	Class	Navy	Date	HULL	SS	FLT	Turrets	DCT	AFC	Cal	FP	Ver	Hor	Rng	Ammo	Ammo	Cal	FP	Ver	Hor	Rng	Ammo	Ammo	Cal	FP	Ver	Hor	Rng	Ammo	Ammo	Cal	FP	Ver	Hor	Rng	Ammo	Ammo	Armor Factor	Armor Factor	Armor Factor	Armor Factor	PR	PR	Knts	Mnts	# per	Dmg	Value
BB	Tegetthoff	AH	1914r	48	19	43	4/12/18	1914	---	12"	14	5	4	21.8	A	13	5.9"	3	1	1	16.4	C	H	13	2.6"	1	0	0	9.2	H	10	4	2	4	2	2	0	20	2	1	10	11						
OB	Erzherzog Karl	AH	1906	35	14	31	2/12/12	1915	---	9.4"	5	3	3	21.0	A	H	8	7.5"	4	2	3	17.8	A	12	2.8"	2	0	0	8.8	H	11	3	2	4	2	2	0	20	2	1	8	4						
OB	Habsburg	AH	1903	29	12	26	2/12/10	---	---	9.4"	5	3	3	10.0	A	H	8	7.5"	3	2	3	10.8	A	12	2.8"	1	0	0	8.8	H	5	3	1	4	2	2	0	19	2	1	8	3						
OB	Radetzky	AH	1911	40	16	36	2/4/20	1914	---	12"	8	5	4	21.8	A	13	9.4"	4	3	3	19.8	A	H	10	3.9"	3	1	0	12.0	H	6	4	2	4	2	2	2	20	3	1	8	6						
AC	Kaiser Karl IV	AH	1900	26	10	20	2/8/-	---	---	9.4"	4	4	4	19.8	A	H	8	5.9"	3	1	1	10.8	C	H	6							3	1	3	2	2	30	2	1	8	3							
AC	Sankt Georg	AH	1905	28	11	22	1/5/4	1915	---	9.4"	4	4	4	21.0	A	H	8	7.5"	3	2	3	17.8	A	11	5.9"	2	1	1	10.8	C	H	7	3	2	3	2	2	0	22	2	1	8	3					
CL	Admiral Spaun	AH	1910	20	8	15	7/-/-	1915	---	3.9"	3	1	0	12.0	H	3															1	1	0	0		27	2	1	8	2								
CL	Saida	AH	1914	22	9	16	9/-/-	1914	---	3.9"	3	1	0	12.0	H	3															1	1	0	0		27				2								
CL	Zenta	AH	1900	16	7	12	8/-/-	1916	---	4.7"	5	1	0	10.8	C	H	3														0	1	0	0		20	2	1	8	2								
DD	Huszar	AH	1912r	6	3	4	6/-/-	1914	---	2.6"	2	0	0	8.8	H	3															0	0	0	0		28	2	1	8	1								
DD	Magnet	AH	1905r	6	3	4	2/-/-	---	---	2.8"	2	0	0	8.8	H	3															0	0	0	0		24	3	1	8	2								
DD	Tatra	AH	1912	10	4	7	2/6/-	1914	---	3.9"	2	1	0	12.0	H	3	2.6"	1	0	0	8.8	H	2								0	0	0	0	0	32	2	2	8	2								
DD	Warasdiner	AH	1914	10	4	7	2/4/-	1915	---	2.6"	2	1	0	12.0	H	3	2.6"	1	0	0	8.8	H	2								0	0	0	0	0	30	2	2	8	2								
UNITED STATES							#	Fire Control Dates			MAIN BTTY						SEC BTTY						TER BTTY						Belt	Deck	TF	TT	SB	TB	Speed	TORPEDO MNTS		Point										
Type	Class	Navy	Date	HULL	SS	FLT	Turrets	DCT	AFC	Cal	FP	Ver	Hor	Rng	Ammo	Ammo	Cal	FP	Ver	Hor	Rng	Ammo	Ammo	Cal	FP	Ver	Hor	Rng	Ammo	Ammo	Cal	FP	Ver	Hor	Rng	Ammo	Ammo	Armor Factor	Armor Factor	Armor Factor	Armor Factor	PR	PR	Knts	Mnts	# per	Dmg	Value
BB	Arkansas	US	1912	52	21	47	6/21/-	1914	1917	12"	12	5	4	23.0	A	C	21	5"	5	1	1	14.0	C	9								5	2	5	3	2	21	2	1	10	11							
BB	Delaware	US	1910	47	19	43	5/14/-	1915	---	12"	11	5	4	19.8	A	C	21	5"	3	1	1	13.4	C	11								5	2	5	2	0	21	2	1	8	10							
BB	Florida	US	1911	48	19	43	5/16/-	1914	1917	12"	11	5	4	19.8	A	C	21	5"	4	1	1	14.0	C	9								5	2	5	3	1	21	2	1	10	10							
BB	Nevada	US	1916	55	22	49	4/21/-	---	1916	14"	12	6	6	23.4	A	C	24	5"	5	1	1	15.8	C	10								6	3	7	4	1	20	2	1	10	14							
BB	New Mexico	US	1918	59	24	53	4/22/-	---	1918	14"	14	6	6	25.0	A	C	24	5"	4	1	1	15.8	C	10								6	4	8	5	1	21	2	1	10	16							
BB	New York	US	1914	55	22	49	5/21/-	---	1917	14"	12	6	6	23.4	A	C	24	5"	5	1	1	14.0	C	10								5	2	6	4	2	21	4	1	10	14							
BB	Pennsylvania	US	1916	58	23	53	4/22/-	---	1916	14"	14	6	6	23.4	A	C	24	5"	5	1	1	15.8	C	10								6	3	8	5	1	21	2	1	10	16							
BB	South Carolina	US	1910	42	17	38	4/22/-	1915	---	12"	10	5	4	19.8	A	C	21	3"	3	0	0	9.0	C	9								4	2	5	2	0	18	2	1	8	8							
OB	Vermont	US	1907	42	17	38	2/4/12	---	---	12"	6	5	4	19.8	A	C	13	8"	4	2	3	22.4	A	C	22	7"	4	2	1	16.4	A	C	9	4	1	4	2	3	2	18	4	1	8	7				
OB	Mississippi	US	1908	38	15	35	2/4/8	---	---	12"	6	5	4	19.8	A	C	16	8"	3	2	3	22.4	A	C	22	7"	3	2	1	16.4	A	C	9	3	1	4	1	3	2	17	2	1	8	6				
AC	Pennsylvania	US	1906	39	16	31	2/14/18	1916	---	8"	4	2	2	17.4	A	C	19	6"	5	2	2	13.8	A	C	11	3"	3	0	0	9.0	C	6	2	1	2	1	1	0	22	2	1	8	5					
AC	Tennessee	US	1907	40	16	32	2/16/22	1915	---	10"	5	3	3	18.2	A	C	10	6"	5	2	2	13.8	A	C	11	3"	4	0	0	9.0	C	6	2	2	4	2	2	0	22	4	1	8	6					
CL	Chester	US	1908	22	9	16	2/6/-	1916	---	5"	2	1	0	16.6	C	5	3"	2	0	0	10.2	C	3									0	1	0	0	0	24	2	1	8	2							
CL	Denver	US	1904	19	8	14	10/-/-	1916	---	5"	5	1	1	13.4	C	5															0	1	0	0		16				2								
CL	Saint Louis	US	1906	34	13	24	14/18/-	1915	---	6"	8	2	1	13.8	A	C	6	3"	3	0	0	8.0	H	6								1	1	1	1	0	22				5							
DD	Caldwell	US	1917	12	5	8	4/-/-	---	---	4"	3	1	0	15.8	C	5																0	0	0	0		30	4	3	10	1							
DD	Cassin	US	1912	12	5	8	4/-/-	1916	---	4"	3	1	0	15.8	C	5																0	0	0	0		29	4	2	9	1							
DD	Monaghan	US	1911	9	4	6	5/-/-	1917	---	3"	3	0	0	10.2	C	2																0	0	0	0		29	3	2	8	1							
DD	O'Brien	US	1914	12	5	8	4/-/-	1916	---	4"	3	1	0	15.8	C	5																0	0	0	0		29	4	2	10	1							
DD	Sampson	US	1916	12	5	8	4/-/-	---	---	4"	3	1	0	15.8	C	5																0	0	0	0		29	4	3	10	1							
DD	Tucker	US	1915	12	5	8	4/-/-	1916	---	4"	3	1	0	15.8	C	5																0	0	0	0		29	4	2	10	1							
DD	Wickes	US	1918	12	5	8	4/-/-	---	---	4"	3	1	0	15.8	C	5																0	0	0	0		35	4	3	10	1							

JAPAN							#	Fire Control Dates		MAIN BTTY							SEC BTTY							TER BTTY							Belt	Deck	TF	TT	SB	TB	Speed	TORPEDO MNTS			Point Value	
Type	Class	Navy	Date	HULL	SS	FLT		Turrets	DCT	AFC	Cal	FP	Pen	Hor	Max Range	Max Ammo	Ammo Load	Cal	FP	Pen	Hor	Max Range	Max Ammo	Ammo Load	Cal	FP	Ver Pen	Hor Pen	Max Range	Ammo Types	Ammo Load	Armor Factor	Armor Factor	Armor Factor	Armor Factor	PR	PR	Knts	Mnts	# per		Dmg
BB	Fuso	IJN	1915	61	24	55	6/16/-	1916	---	14"	15	6	6	23.8	A,H	15	6"	5	2	2	13.2	C,H	11									5	2	5	2	3		22	6	1	10	16
BB	Ise	IJN	1918	62	25	56	6/20/-	1918	---	14"	15	6	6	16.2	A,H	15	6"	5	2	2	17.4	C,H	11									5	2	5	2	3		23	6	1	10	17
OB	Asahi	IJN	1900	38	15	35	2/14/20	---	---	12"	7	4	3	16.2	A,H	27	6"	5	1	1	12.2	C,H	10	3"	3	0	0	7.8	H	6	4	2	2	2	2	1	18	4	1	8	6	
OB	Cheryen	IJN	1895c	16	7	15	2/4/-	---	---	12"	4	3	2	7.8	A,H	22	6"	1	1	1	12.2	H	6								3	1	3	1	1		18	4	1	8	3	
OB	Fuji	IJN	1901r	35	14	31	2/10/-	---	---	12"	7	4	3	16.2	A,H	27	6"	3	1	1	10.2	C,H	10								5	2	2	2	2		18	5	1	8	6	
OB	Kashima	IJN	1906	40	16	36	2/4/12	---	---	12"	7	5	4	18.6	A,H	20	10"	3	3	3	17.2	A,H	22	6"	4	1	1	13.2	C,H	10	4	2	4	2	3	2	19	5	1	8	6	
OB	Kawachi	IJN	1912	49	20	44	2/4/10	1917	---	12"	7	5	4	23.4	A,H	20	12"	5	5	4	21.0	A,H	20	6"	4	1	1	13.2	C,H	10	5	2	5	2	4	2	20	4	1	8	8	
OB	Mikasa	IJN	1900	39	16	35	2/14/20	---	---	12"	7	4	3	16.2	A,H	20	6"	5	1	1	12.2	C,H	10	3"	3	0	0	7.8	H	6	4	2	4	2	2	1	18	4	1	8	6	
OB	Satsuma	IJN	1909	45	18	40	2/6/12	1917	---	12"	7	5	4	18.6	A,H	20	10"	5	3	3	17.2	A,H	22	4.7"	3	1	1	9.8	H	10	4	2	4	2	3	1	18	5	1	8	7	
OB	Shikishima	IJN	1900	38	15	35	2/14/20	---	---	12"	7	4	3	16.2	A,H	27	6"	5	1	1	12.2	C,H	10	3"	3	0	0	7.8	H	6	4	2	2	2	2	1	18	5	1	8	6	
BC	Ibuki	IJN	1909	40	16	36	2/6/14	1917	---	12"	7	5	4	18.6	A,H	20	8"	3	2	3	16.0	A,H	20	4.7"	3	1	1	9.8	H	9	3	2	3	2	2	0	21	3	1	8	6	
BC	Kongo	IJN	1914	56	23	51	4/16/-	1916	---	14"	12	6	6	23.8	A,H	15	6"	5	2	2	13.2	C,H	11	3"	2	0	0	8.0	H	5	4	2	4	2	3		27	4	2	10	14	
BC	Tsukuba	IJN	1908	38	15	34	2/12/12	1918	---	12"	7	5	4	18.6	A,H	20	6"	4	1	1	13.2	C,H	10	4.7"	3	1	1	9.8	H	9	3	2	3	2	2	0	20	3	1	8	5	
AC	Asama	IJN	1899	32	13	25	2/14/12	---	---	8"	6	2	3	14.4	A,H	17	6"	4	1	1	11.0	C,H	8	3"	3	0	0	7.8	H	5	2	1	2	1	2	0	21	5	1	8	4	
AC	Azuma	IJN	1900	32	13	25	2/12/12	---	---	8"	6	2	3	14.4	A,H	17	6"	5	1	1	11.0	C,H	8	3"	3	0	0	7.8	H	5	3	2	3	1	2	0	20	5	1	8	4	
AC	Chiyo-da	IJN	1890	16	7	13	10/-/-	---	---	4.7"	5	1	0	9.8	H	8														1	1	0	0			19	3	1	8	2		
AC	Izumo	IJN	1901	33	13	26	2/14/12	---	---	8"	6	2	3	14.4	A,H	17	6"	4	1	1	11.0	C,H	8	3"	3	0	0	7.8	H	5	3	2	3	1	2	0	21	5	1	8	5	
AC	Kasuga	IJN	1904	30	12	23	1/1/14	1917	---	10"	4	3	3	14.4	A,H	20	8"	2	2	3	14.4	A,H	17	6"	4	1	1	11.0	C,H	8	3	2	3	1	2	1	20	4	1	8	3	
AC	Nisshin	IJN	1904	30	12	23	2/14/10	1918	---	8"	5	2	3	14.4	A,H	17	6"	5	1	1	11.0	C,H	8	3"	3	0	0	7.8	H	5	3	2	3	1	2	1	20	4	1	8	3	
AC	Yakumo	IJN	1900	33	13	25	2/12/12	---	---	8"	6	2	3	14.4	A,H	17	6"	4	1	1	11.0	C,H	8	3"	3	0	0	7.8	H	5	3	2	3	1	2	0	20	5	1	8	4	
CL	Akitsu-shima	IJN	1894	19	8	14	4/6/-	---	---	6"	6	1	1	12.2	C,H	6	4.7"	2	1	0	9.8	H	6								0	1	0	0			19	4	1	8	2	
CL	Chihaya	IJN	1901	12	5	8	2/4/-	---	---	4.7"	4	1	0	9.8	H	6	3"	1	0	0	7.8	H	4								0	0	0	0	0		21	3	1	8	1	
CL	Chikuma	IJN	1912	24	10	17	8/4/-	1917	---	6"	6	2	2	13.2	C,H	7	3"	1	0	0	7.8	H	4								0	2	1	0	0		27	3	1	8	3	
CL	Chitose	IJN	1899	23	9	17	2/10/12	---	---	8"	4	2	2	14.4	A,H	17	4.7"	2	1	0	9.8	H	6	3"	3	0	0	7.8	H	4	0	2	1	0	1	0	23	4	1	8	2	
CL	Izumi	IJN	1901r	18	7	13	2/6/-	---	---	10"	4	3	3	9.4	A,H	18	4.7"	1	1	0	9.8	H	6								0	1	0	0	0		18	3	1	8	2	
CL	Matsushima	IJN	1892	22	9	16	1/11/-	---	---	12.6"	5	4	3	11.2	C,H	16	4.7"	3	1	0	8.4	H	4								0	1	4	2	1		16	4	1	8	2	
CL	Naniwa	IJN	1890r	20	8	15	2/6/-	---	---	10.3"	5	3	3	8.8	C,H	16	5.9"	2	1	1	7.8	C,H	13								0	1	1	0	0		18	4	1	8	2	
CL	Otowa	IJN	1904	19	8	14	2/6/-	---	---	6"	4	1	1	11.0	C,H	7	4.7"	2	1	0	9.8	H	6								0	2	1	0	0		21	2	1	8	2	
CL	Suma	IJN	1897	17	7	12	2/6/-	---	---	6"	4	1	1	11.0	C,H	6	4.7"	2	1	1	9.8	H	6								0	1	0	0	0		19	2	1	8	2	
CL	Takasago	IJN	1899	22	9	16	2/10/12	---	---	8"	4	2	2	14.4	A,H	17	4.7"	2	1	0	9.8	H	6	3"	3	0	0	7.8	H	4	0	2	1	0	1	0	24	5	1	8	2	
CL	Tatsuta	IJN	1894	10	4	8	2/-/-	---	---	4.7"	4	1	0	8.4	H	5															0	0	0	0			21	2	2	8	1	
CL	Tone	IJN	1910	23	9	17	2/10/-	1918	---	6"	4	2	2	13.2	C,H	7	4.7"	2	1	1	9.8	H	5								0	2	1	0	0		23	3	1	8	2	
CL	Tsushima	IJN	1904	20	8	14	6/10/-	---	---	6"	6	1	1	11.0	C,H	7	3"	2	0	0	7.8	H	4								0	2	0	0	0		20				2	
CL	Yaeyama	IJN	1892	14	5	10	3/-/-	---	---	4.7"	3	1	0	5.6	H	5															0	0	0	0			21	2	1	8	1	
CL	Yodo	IJN	1909	13	5	9	2/4/-	---	---	4.7"	3	1	1	9.8	H	5	3"	1	0	0	7.8	H	3								0	2	0	0	0		22	2	1	8	1	
CL	Yoshino	IJN	1894	22	9	16	4/8/-	---	---	6"	6	1	1	12.2	C,H	6	4.7"	2	1	0	9.8	H	6								0	1	1	0			23	4	1	8	3	
DD	Asakaze	IJN	1906	6	3	4	2/2/-	---	---	3"	2	0	0	7.8	H	4	3"	1	0	0	6.0	H	4								0	0	0	0			29	2	1	8	1	
DD	Harusame	IJN	1903	6	3	4	2/-/-	---	---	3"	2	0	0	7.8	H	4															0	0	0	0			31	2	1	8	1	
DD	Ikazuchi/Akatsuki	IJN	1902	6	3	4	2/-/-	---	---	3"	2	0	0	7.8	H	4															0	0	0	0			31	2	1	8	1	
DD	Isokaze	IJN	1916	14	5	9																																				

[illegible]

*Note: RN Torpedoes have a "15" FP rating from 1944+ (Torpex warheads)*



