

u/Sonoda_Kotori 2022.12.24			USA	Germany	USSR	UK	Japan	Italy			
Main guns are using HE or SAP with the highest TNT filler											
Secondary guns are using the shells with the highest TNT filler											
Ship	Class	BR	Main Gun TNT kg	Main Gun RPM	Broadside Guns	kg TNT /min Main	Sec. Gun HE TNT kg	Sec. Gun RPM	Broadside Guns	kg TNT /min Sec.	kg TNT/ min Total
Elbing SAP	CL	4.7	1.05	7	4	29.4	0.087	10	2	1.74	31.14
Elbing	CL	4.7	1.6	7	4	44.8	0.087	10	2	1.74	46.54
Tobruk SAP	DD	4.7	0.91	20	4	72.8	0	0	0	0	72.8
Attilio Regolo	CL	4.7	1.8	7.5	8	108	0	0	0	0	108
Diana SAP	DD	4.7	0.91	20	6	109.2	0	0	0	0	109.2
Yuudachi	DD	4.7	2.31	10	5	115.5	0	0	0	0	115.5
Z43 BFHE	DD	4.7	1.4	18	5	126	0	0	0	0	126
Bartolomeo Colleoni	CL	5.0	2.39	4	8	76.48	1.3	9.6	4	49.92	126.4
Spokoinyy SAP	DD	5.0	2.21	15	4	132.6	0	0	0	0	132.6
Z32 SAP	DD	4.7	3.32	8	5	132.8	0	0	0	0	132.8
Shimakaze	DD	5.0	2.31	10	6	138.6	0	0	0	0	138.6
Kiyoshimo	DD	4.7	2.31	10	6	138.6	0	0	0	0	138.6
Dido SAP	CL	5.3	1.47	10	10	147	0	0	0	0	147
Yuubari	CL	4.7	3.15	10	4	126	1.95	11	1	21.45	147.45
Etna	CL	4.7	1.8	7.5	6	81	0.45	30	5	67.5	148.5
Z32	DD	4.7	3.91	8	5	156.4	0	0	0	0	156.4
Hawkins SAP	CA	5.3	3.9	6	6	140.4	0.721	12	2	17.304	157.704
Akizuki	DD	4.7	0.95	21	8	159.6	0	0	0	0	159.6
Enterprise SAP	CL	5.0	3.4	7	6	142.8	0.721	12	2	17.304	160.104
Isuzu	CL	5.0	1.96	14	6	164.64	0	0	0	0	164.64
Z43	DD	4.7	1.91	18	5	171.9	0	0	0	0	171.9
York SAP	CA	5.7	5.2	5	6	156	0.721	12	2	17.304	173.304
Trento	CA	5.3	7.5	3.4	4	102	1.3	9.6	6	74.88	176.88
Sendai SAP	CL	5.0	2.96	10	6	177.6	0	0	0	0	177.6
Yuubari SAP	CL	4.7	3.96	10	4	158.4	1.95	11	1	21.45	179.85
Tobruk	DD	4.7	2.32	20	4	185.6	0	0	0	0	185.6
Sendai Kuma	CL	5.0	3.15	10	6	189	0	0	0	0	189
Duca degli Abruzzi	CL	5.7	2.39	6	10	143.4	1.3	9.6	4	49.92	193.32
Agano SAP	CL	5.3	2.92	10	6	175.2	0.399	25	2	19.95	195.15
Somers SAP	DD	5.0	1.15	22	8	202.4	0	0	0	0	202.4
Eugenio di Savoia / Raimondo Montecuccoli	CL	5.7	2.39	8	8	152.96	1.3	9.6	4	49.92	202.88
Aréthusa SAP	CL	5.3	1.7	8	6	81.6	1.55	20	4	124	205.6
Krasny Krym SAP	CL	5.3	1.67	8	8	106.88	2.06	12	4	98.88	205.76
Emden SAP	CL	5.0	3.32	8	6	159.36	1.55	15	2	46.5	205.86
Agano	CL	5.3	3.17	10	6	190.2	0.399	25	2	19.95	210.15
Spokoinyy / Blagorodnyy	DD	5.0	3.83	15	4	229.8	0	0	0	0	229.8
Leander SAP	CL	5.3	1.7	8	8	108.8	1.55	20	4	124	232.8
Kent SAP	CA	6.0	5.2	5	8	208	0.721	12	3	25.956	233.956
Emden	CL	5.0	3.91	8	6	187.68	1.55	15	2	46.5	234.18
Kako	CA	4.7	8.03	4	6	192.72	1.95	11	2	42.9	235.62
Z47	DD	4.7	2	20	6	240	0	0	0	0	240
Liverpool SAP	CL	5.7	1.7	8	9	122.4	1.55	20	4	124	246.4
Krasny Kavkaz SAP	CL	5.0	7	4	4	112	2.06	12	6	148.32	260.32
Krasny Krym	CL	5.3	2.71	8	8	173.44	2.06	12	4	98.88	272.32
Krasny Kavkaz	CL	5.0	7.9	4	4	126.4	2.06	12	6	148.32	274.72
Diana	CL	4.7	2.32	20	6	278.4	0	0	0	0	278.4
Atlanta SAP	CL	5.3	0.9065	22	14	279.202	0	0	0	0	279.202
Southampton SAP	CL	5.7	1.7	8	12	163.2	1.55	20	4	124	287.2
Enterprise	CL	5.0	6.6	7	6	277.2	0.721	12	2	17.304	294.504
Leipzig SAP	CL	5.3	3.32	8	9	239.04	0.698	20	4	55.84	294.88
Koln SAP	CL	5.7	3.32	8	9	239.04	0.698	20	4	55.84	294.88
Dido	CL	5.3	2.95	10	10	295	0	0	0	0	295
Furutaka / Aoba	CA	5.7	8.57	5	6	257.1	1.95	11	2	42.9	300
Zara / Pola	CA	5.7	7.5	3.8	8	228	1.3	9.6	6	74.88	302.88
Trenton / Raleigh	CL	5.3	5.88	7	7	288.12	0.5	17	2	17	305.12
Hawkins	CA	5.3	8.03	6	6	289.08	0.721	12	2	17.304	306.384
Aréthusa	CL	5.3	3.96	8	6	190.08	1.55	20	4	124	314.08
York	CA	5.7	10	5	6	300	0.721	12	2	17.304	317.304
Karlsruhe SAP	CL	5.7	3.32	8	9	239.04	1.55	15	4	93	332.04
Leipzig	CL	5.3	3.91	8	9	281.52	0.698	20	4	55.84	337.36
Koln	CL	5.7	3.91	8	9	281.52	0.698	20	4	55.84	337.36
Kaiser SAP	BB	6.3	10.8	3	8	259.2	1.6	7	7	78.4	337.6
Von der Tann SAP	BB	6.3	17	3	6	306	1.6	7	5	56	362
Hipper SAP	CA	5.7	5.35	5	8	214	1.55	17	6	158.1	372.1

Karlsruhe	CL	5.7	3.91	8	9	281.52	1.55	15	4	93	374.52
Leander	CL	5.3	3.96	8	8	253.44	1.55	20	4	124	377.44
Graf Spee SAP	CA	5.7	16.94	2.5	6	254.1	3.91	8	4	125.12	379.22
Portland SAP	CA	5.3	4.61	3.5	9	145.215	3.25	20	4	260	405.215
New Orleans SAP	CA	5.3	4.61	3.5	9	145.215	3.25	20	4	260	405.215
Liverpool	CL	5.7	3.96	8	9	285.12	1.55	20	4	124	409.12
Nurnberg SAP	CL	5.7	3.32	12	9	358.56	0.698	20	4	55.84	414.4
Suzuya / Mikuma	CL	6.0	3.39	6	15	305.1	1.96	14	4	109.76	414.86
Pensacola SAP	CA	5.3	4.61	3.5	10	161.35	3.25	20	4	260	421.35
Kent	CA	6.0	10	5	8	400	0.721	12	3	25.956	425.956
Kirov SAP	CL	5.7	7	5.5	9	346.5	1.93	15	3	86.85	433.35
Tone	CA	6.0	8.57	5	8	342.8	1.96	14	4	109.76	452.56
Ikoma	BC	5.7	37.82	2	4	302.56	5.28	5	6	158.4	460.96
Graf Spee	CA	5.7	23.33	2.5	6	349.95	3.91	8	4	125.12	475.07
Westfalen SAP	BB	6.3	17	3	8	408	1.6	7	6	67.2	475.2
Kirov / Maxim Gorky	CL	5.7	7.9	5.5	9	391.05	1.93	15	3	86.85	477.9
Nurnberg	CL	5.7	3.91	12	9	422.28	0.698	20	4	55.84	478.12
Southampton / Belfast	CL	5.7	3.96	8	12	380.16	1.55	20	4	124	504.16
Admiral Hipper / Prinz Eugen	CA	5.7	8.88	5	8	355.2	1.55	17	6	158.1	513.3
London / Norfolk	CA	5.7	10	5	8	400	1.55	20	4	124	524
London SAP	CA	5.7	10	5	8	400	1.55	20	4	124	524
Mogami	CA	6.0	8.57	5	10	428.5	1.96	14	4	109.76	538.26
Myoko	CA	5.7	8.57	5	10	428.5	1.96	14	4	109.76	538.26
Portland / Southampton	CA	5.3	9.5	3.5	9	299.25	3.25	20	4	260	559.25
New Orleans	CA	5.7	9.5	3.5	9	299.25	3.25	20	4	260	559.25
Somers / Porter / Moffett / Davis	DD	5.0	3.22	22	8	566.72	0	0	0	0	566.72
Glorious SAP	BC	5.7	58.6	2	4	468.8	0.721	12	12	103.824	572.624
Pensacola	CA	5.3	9.5	3.5	10	332.5	3.25	20	4	260	592.5
Kongo / Haruna	BC	7.0	32.45	2	8	519.2	3.17	10	4	126.8	646
Dreadnought SAP	BB	6.3	36.3	2	8	580.8	0.52	15	10	78	658.8
Invincible SAP	BC	6.3	36.3	2	8	580.8	0.721	20	6	86.52	667.32
Chapayev SAP	CL	6.0	5.9	7.5	12	531	1.94	18	4	139.68	670.68
Chapayev / Zheleznyakov	CL	6.0	6	7.5	12	540	1.94	18	4	139.68	679.68
North Dakota	BB	6.3	33.25	2	10	665	0.78	9	7	49.14	714.14
Scharnhorst SAP	BC	7.0	16.72	3.5	9	526.68	3.91	8	6	187.68	714.36
Kaiser / Helgoland / Ostfriesland	BB	6.3	27	3	8	648	1.6	7	7	78.4	726.4
Baltimore SAP	CA	6.0	4.61	4	9	165.96	3.22	22	8	566.72	732.68
Settsu	BB	6.3	37.82	2	8	605.12	5.28	5	5	132	737.12
Sverdlov SAP	CL	6.0	5.9	7.5	12	531	1.94	18	6	209.52	740.52
Sverdlov / Mikhail Kutuzov	CL	6.0	6	7.5	12	540	1.94	18	6	209.52	749.52
Colossus SAP	BB	6.7	36.3	2	10	726	0.7	8	7	39.2	765.2
Tiger	CL	5.7	7.81	20	4	624.8	0.528	90	4	190.08	814.88
Scharnhorst	BC	7.0	21.49	3.5	9	676.935	3.91	8	6	187.68	864.615
Dante Alighieri SAP	BB	6.3	31	2	12	744	2.2	6	10	132	876
Arizona	BB	6.7	46.67	1.5	12	840.06	0.78	9	6	42.12	882.18
Baltimore / Pittsburgh	CA	6.0	9.5	4	9	342	3.22	22	8	566.72	908.72
Dreadnought	BB	6.3	53.13	2	8	850.08	0.52	15	10	78	928.08
Wyoming	BB	6.7	33.25	2.2	12	877.8	0.78	9	8	56.16	933.96
Invincible	BC	6.3	53.13	2	8	850.08	0.721	20	6	86.52	936.6
Andrea Doria SAP	BB	6.3	31	2	13	806	5.4	3.5	8	151.2	957.2
Atlanta	CL	5.3	3.22	22	14	991.76	0	0	0	0	991.76
Fuso	BB	7.0	32.45	2	12	778.8	3.17	10	8	253.6	1032.4
Colossus	BB	6.7	53.13	2	10	1062.6	0.7	8	7	39.2	1101.8
Brooklyn / Helena	CL	6.0	5.88	10	15	882	3.25	20	4	260	1142
Helena	CL	6.0	5.88	10	15	882	3.22	22	4	283.36	1165.36
Hood SAP	BC	7.0	58.6	2	8	937.6	1.55	20	8	248	1185.6
Kongo SAP	BC	7.0	68.64	2	8	1098.24	3.17	10	4	126.8	1225.04
Poltava	BB	6.7	47.48	1.8	12	1025.568	3.73	7	8	208.88	1234.448
Cleveland Fargo	CL	6.0	5.88	10	12	705.6	3.22	22	8	566.72	1272.32
Bayern SAP	BB	7.0	67.1	2.3	8	1234.64	1.6	7	8	89.6	1324.24
Mariya	BB	6.7	47.48	1.8	12	1025.568	3.9	8	10	312	1337.568
Marlborough SAP	BB	7.0	53.3	2	10	1066	6.6	7	6	277.2	1343.2

<b>Poltava SAP</b>	BB	6.7	55.2	1.8	12	1192.32	3.73	7	8	208.88	1401.2
<b>Newport News</b>	CA	6.3	9.69	10	9	872.1	3.29	22	8	579.04	1451.14
<b>Maryia SAP</b>	BB	6.7	55.2	1.8	12	1192.32	3.9	8	10	312	1504.32
<b>Alaska</b>	BC	7.0	35.31	3	9	953.37	3.22	22	8	566.72	1520.09
<b>Parizhskaya SAP</b>	BB	7.0	55.2	2.2	12	1457.28	3.16	7	8	176.96	1634.24
<b>Parizhskaya</b>	BB	7.0	55.41	2.2	12	1462.824	3.16	7	8	176.96	1639.784
<b>Hyuga SAP</b>	BB	7.0	68.64	2	12	1647.36	2.21	10	10	221	1868.36
<b>Kronstadt</b>	BC	7.0	55.41	3	9	1496.07	6.56	15	4	393.6	1889.67
<b>Fuso SAP</b>	BB	7.0	68.64	2	12	1647.36	3.17	10	8	253.6	1900.96
<b>Marlborough</b>	BB	7.0	88.11	2	10	1762.2	6.6	7	6	277.2	2039.4

Ship	Class	BR	Main Gun TNT kg	Main Gun RPM	Broadside Guns	kg TNT /min Main	Sec. Gun HE TNT kg	Sec. Gun RPM	Broadside Guns	kg TNT /min Sec.	kg TNT/ min Total
Elbing SAP	CL	4.7	1.05	7	4	29.4	0.087	10	2	1.74	31.14
Elbing	CL	4.7	1.6	7	4	44.8	0.087	10	2	1.74	46.54
Tobruk SAP	DD	4.7	0.91	20	4	72.8	0	0	0	0	72.8
Bartolomeo Colleoni	CL	5.0	2.39	4	8	76.48	1.3	9.6	4	49.92	126.4
Etna	CL	4.7	1.8	7.5	6	81	0.45	30	5	67.5	148.5
Arethusa SAP	CL	5.3	1.7	8	6	81.6	1.55	20	4	124	205.6
Trento	CA	5.3	7.5	3.4	4	102	1.3	9.6	6	74.88	176.88
Krasny Krym SAP	CL	5.3	1.67	8	8	106.88	2.06	12	4	98.88	205.76
Attilio Regolo	CL	4.7	1.8	7.5	8	108	0	0	0	0	108
Leander SAP	CL	5.3	1.7	8	8	108.8	1.55	20	4	124	232.8
Diana SAP	DD	4.7	0.91	20	6	109.2	0	0	0	0	109.2
Krasny Kavkaz SAP	CL	5.0	7	4	4	112	2.06	12	6	148.32	260.32
Yuudachi	DD	4.7	2.31	10	5	115.5	0	0	0	0	115.5
Liverpool SAP	CL	5.7	1.7	8	9	122.4	1.55	20	4	124	246.4
Z43 BFHE	DD	4.7	1.4	18	5	126	0	0	0	0	126
Yuubari	CL	4.7	3.15	10	4	126	1.95	11	1	21.45	147.45
Krasny Kavkaz	CL	5.0	7.9	4	4	126.4	2.06	12	6	148.32	274.72
Spokoinyy SAP	DD	5.0	2.21	15	4	132.6	0	0	0	0	132.6
Z32 SAP	DD	4.7	3.32	8	5	132.8	0	0	0	0	132.8
Shimakaze	DD	5.0	2.31	10	6	138.6	0	0	0	0	138.6
Kiyoshimo	DD	4.7	2.31	10	6	138.6	0	0	0	0	138.6
Hawkins SAP	CA	5.3	3.9	6	6	140.4	0.721	12	2	17.304	157.704
Enterprise SAP	CL	5.0	3.4	7	6	142.8	0.721	12	2	17.304	160.104
Duca degli Abruzzi	CL	5.7	2.39	6	10	143.4	1.3	9.6	4	49.92	193.32
Portland SAP	CA	5.3	4.61	3.5	9	145.215	3.25	20	4	260	405.215
New Orleans SAP	CA	5.3	4.61	3.5	9	145.215	3.25	20	4	260	405.215
Dido SAP	CL	5.3	1.47	10	10	147	0	0	0	0	147
Eugenio di Savoia / Raimondo Montecuccoli	CL	5.7	2.39	8	8	152.96	1.3	9.6	4	49.92	202.88
York SAP	CA	5.7	5.2	5	6	156	0.721	12	2	17.304	173.304
Z32	DD	4.7	3.91	8	5	156.4	0	0	0	0	156.4
Yuubari SAP	CL	4.7	3.96	10	4	158.4	1.95	11	1	21.45	179.85
Emden SAP	CL	5.0	3.32	8	6	159.36	1.55	15	2	46.5	205.86
Akizuki	DD	4.7	0.95	21	8	159.6	0	0	0	0	159.6
Pensacola SAP	CA	5.3	4.61	3.5	10	161.35	3.25	20	4	260	421.35
Southampton SAP	CL	5.7	1.7	8	12	163.2	1.55	20	4	124	287.2
Isuzu	CL	5.0	1.96	14	6	164.64	0	0	0	0	164.64
Baltimore SAP	CA	6.0	4.61	4	9	165.96	3.22	22	8	566.72	732.68
Z43	DD	4.7	1.91	18	5	171.9	0	0	0	0	171.9
Krasny Krym	CL	5.3	2.71	8	8	173.44	2.06	12	4	98.88	272.32
Agano SAP	CL	5.3	2.92	10	6	175.2	0.399	25	2	19.95	195.15
Sendai SAP	CL	5.0	2.96	10	6	177.6	0	0	0	0	177.6
Tobruk	DD	4.7	2.32	20	4	185.6	0	0	0	0	185.6
Emden	CL	5.0	3.91	8	6	187.68	1.55	15	2	46.5	234.18
Sendai Kuma	CL	5.0	3.15	10	6	189	0	0	0	0	189
Arethusa	CL	5.3	3.96	8	6	190.08	1.55	20	4	124	314.08
Agano	CL	5.3	3.17	10	6	190.2	0.399	25	2	19.95	210.15
Kako	CA	4.7	8.03	4	6	192.72	1.95	11	2	42.9	235.62
Somers SAP	DD	5.0	1.15	22	8	202.4	0	0	0	0	202.4
Rent SAP	CA	6.0	5.2	5	8	208	0.721	12	3	25.956	233.956
Hipper SAP	CA	5.7	5.35	5	8	214	1.55	17	6	158.1	372.1
Zara / Pola	CA	5.7	7.5	3.8	8	228	1.3	9.6	6	74.88	302.88
Spokoinyy / Blagorodnyy	DD	5.0	3.83	15	4	229.8	0	0	0	0	229.8
Leipzig SAP	CL	5.3	3.32	8	9	239.04	0.698	20	4	55.84	294.88
Koln SAP	CL	5.7	3.32	8	9	239.04	0.698	20	4	55.84	294.88
Karlsruhe SAP	CL	5.7	3.32	8	9	239.04	1.55	15	4	93	332.04
Z47	DD	4.7	2	20	6	240	0	0	0	0	240
Leander	CL	5.3	3.96	8	8	253.44	1.55	20	4	124	377.44
Graf Spee SAP	CA	5.7	16.94	2.5	6	254.1	3.91	8	4	125.12	379.22
Furutaka / Aoba	CA	5.7	8.57	5	6	257.1	1.95	11	2	42.9	300
Kaiser SAP	BB	6.3	10.8	3	8	259.2	1.6	7	7	78.4	337.6
Enterprise	CL	5.0	6.6	7	6	277.2	0.721	12	2	17.304	294.504
Diana	CL	4.7	2.32	20	6	278.4	0	0	0	0	278.4
Atlanta SAP	CL	5.3	0.9065	22	14	279.202	0	0	0	0	279.202
Leipzig	CL	5.3	3.91	8	9	281.52	0.698	20	4	55.84	337.36
Koln	CL	5.7	3.91	8	9	281.52	0.698	20	4	55.84	337.36
Karlsruhe	CL	5.7	3.91	8	9	281.52	1.55	15	4	93	374.52
Liverpool	CL	5.7	3.96	8	9	285.12	1.55	20	4	124	409.12
Trenton / Raleigh	CL	5.3	5.88	7	7	288.12	0.5	17	2	17	305.12
Hawkins	CA	5.3	8.03	6	6	289.08	0.721	12	2	17.304	306.384

<b>Dido</b>	CL	5.3	2.95	10	10	295	0	0	0	0	295
Portland / Southampton	CA	5.3	9.5	3.5	9	299.25	3.25	20	4	260	559.25
New Orleans	CA	5.7	9.5	3.5	9	299.25	3.25	20	4	260	559.25
York	CA	5.7	10	5	6	300	0.721	12	2	17.304	317.304
<b>Ikoma</b>	BC	5.7	37.82	2	4	302.56	5.28	5	6	158.4	460.96
<b>Suzuya / Mikuma</b>	CL	6.0	3.39	6	15	305.1	1.96	14	4	109.76	414.86
<b>Von der Tann SAP</b>	BB	6.3	17	3	6	306	1.6	7	5	56	362
Pensacola	CA	5.3	9.5	3.5	10	332.5	3.25	20	4	260	592.5
Baltimore / Pittsburgh	CA	6.0	9.5	4	9	342	3.22	22	8	566.72	908.72
<b>Tone</b>	CA	6.0	8.57	5	8	342.8	1.96	14	4	109.76	452.56
<b>Kirov SAP</b>	CL	5.7	7	5.5	9	346.5	1.93	15	3	86.85	433.35
<b>Graf Spee</b>	CA	5.7	23.33	2.5	6	349.95	3.91	8	4	125.12	475.07
<b>Admiral Hipper / Prinz Eugen</b>	CA	5.7	8.88	5	8	355.2	1.55	17	6	158.1	513.3
<b>Nurnberg SAP</b>	CL	5.7	3.32	12	9	358.56	0.698	20	4	55.84	414.4
<b>Southampton / Belfast</b>	CL	5.7	3.96	8	12	380.16	1.55	20	4	124	504.16
<b>Kirov / Maxim Gorky</b>	CL	5.7	7.9	5.5	9	391.05	1.93	15	3	86.85	477.9
<b>Kent</b>	CA	6.0	10	5	8	400	0.721	12	3	25.956	425.956
<b>London / Norfolk</b>	CA	5.7	10	5	8	400	1.55	20	4	124	524
<b>London SAP</b>	CA	5.7	10	5	8	400	1.55	20	4	124	524
<b>Westfalen SAP</b>	BB	6.3	17	3	8	408	1.6	7	6	67.2	475.2
<b>Nurnberg</b>	CL	5.7	3.91	12	9	422.28	0.698	20	4	55.84	478.12
<b>Mogami</b>	CA	6.0	8.57	5	10	428.5	1.96	14	4	109.76	538.26
<b>Myoko</b>	CA	5.7	8.57	5	10	428.5	1.96	14	4	109.76	538.26
<b>Glorious SAP</b>	BC	5.7	58.6	2	4	468.8	0.721	12	12	103.824	572.624
<b>Kongo / Haruna</b>	BC	7.0	32.45	2	8	519.2	3.17	10	4	126.8	646
<b>Scharnhorst SAP</b>	BC	7.0	16.72	3.5	9	526.68	3.91	8	6	187.68	714.36
<b>Chapayev SAP</b>	CL	6.0	5.9	7.5	12	531	1.94	18	4	139.68	670.68
<b>Sverdlov SAP</b>	CL	6.0	5.9	7.5	12	531	1.94	18	6	209.52	740.52
<b>Chapayev / Zheleznyakov</b>	CL	6.0	6	7.5	12	540	1.94	18	4	139.68	679.68
<b>Sverdlov / Mikhail Kutuzov</b>	CL	6.0	6	7.5	12	540	1.94	18	6	209.52	749.52
<b>Somers / Porter / Moffett / Davis</b>	DD	5.0	3.22	22	8	566.72	0	0	0	0	566.72
<b>Dreadnought SAP</b>	BB	6.3	36.3	2	8	580.8	0.52	15	10	78	658.8
<b>Invincible SAP</b>	BC	6.3	36.3	2	8	580.8	0.721	20	6	86.52	667.32
<b>Settsu</b>	BB	6.3	37.82	2	8	605.12	5.28	5	5	132	737.12
<b>Tiger</b>	CL	5.7	7.81	20	4	624.8	0.528	90	4	190.08	814.88
<b>Kaiser / Helgoland / Ostfriesland</b>	BB	6.3	27	3	8	648	1.6	7	7	78.4	726.4
<b>North Dakota</b>	BB	6.3	33.25	2	10	665	0.78	9	7	49.14	714.14
<b>Scharnhorst</b>	BC	7.0	21.49	3.5	9	676.935	3.91	8	6	187.68	864.615
<b>Cleveland Fargo</b>	CL	6.0	5.88	10	12	705.6	3.22	22	8	566.72	1272.32
<b>Colossus SAP</b>	BB	6.7	36.3	2	10	726	0.7	8	7	39.2	765.2
<b>Dante Alighieri SAP</b>	BB	6.3	31	2	12	744	2.2	6	10	132	876
<b>Fuso</b>	BB	7.0	32.45	2	12	778.8	3.17	10	8	253.6	1032.4
<b>Andrea Doria SAP</b>	BB	6.3	31	2	13	806	5.4	3.5	8	151.2	957.2
<b>Arizona</b>	BB	6.7	46.67	1.5	12	840.06	0.78	9	6	42.12	882.18
<b>Dreadnought</b>	BB	6.3	53.13	2	8	850.08	0.52	15	10	78	928.08
<b>Invincible</b>	BC	6.3	53.13	2	8	850.08	0.721	20	6	86.52	936.6
<b>Wyoming</b>	BB	6.7	33.25	2.2	12	877.8	0.78	9	8	56.16	933.96
<b>Brooklyn / Helena</b>	CL	6.0	5.88	10	15	882	3.25	20	4	260	1142
<b>Hood SAP</b>	BC	7.0	58.6	2	8	937.6	1.55	20	8	248	1185.6
<b>Alaska</b>	BC	7.0	35.31	3	9	953.37	3.22	22	8	566.72	1520.09
<b>Atlanta</b>	CL	5.3	3.22	22	14	991.76	0	0	0	0	991.76
<b>Poltava</b>	BB	6.7	47.48	1.8	12	1025.568	3.73	7	8	208.88	1234.448
<b>Mariya</b>	BB	6.7	47.48	1.8	12	1025.568	3.9	8	10	312	1337.568
<b>Colossus</b>	BB	6.7	53.13	2	10	1062.6	0.7	8	7	39.2	1101.8
<b>Marlborough SAP</b>	BB	7.0	53.3	2	10	1066	6.6	7	6	277.2	1343.2
<b>Kongo SAP</b>	BC	7.0	68.64	2	8	1098.24	3.17	10	4	126.8	1225.04
<b>Poltava SAP</b>	BB	6.7	55.2	1.8	12	1192.32	3.73	7	8	208.88	1401.2
<b>Mariya SAP</b>	BB	6.7	55.2	1.8	12	1192.32	3.9	8	10	312	1504.32
<b>Bayern SAP</b>	BB	7.0	67.1	2.3	8	1234.64	1.6	7	8	89.6	1324.24
<b>Parizhskaya SAP</b>	BB	7.0	55.2	2.2	12	1457.28	3.16	7	8	176.96	1634.24
<b>Parizhskaya</b>	BB	7.0	55.41	2.2	12	1462.824	3.16	7	8	176.96	1639.784
<b>Kronstadt</b>	BC	7.0	55.41	3	9	1496.07	6.56	15	4	393.6	1889.67

<b>Hyuga SAP</b>	BB	7.0	68.64	2	12	1647.36	2.21	10	10	221	1868.36
<b>Fuso SAP</b>	BB	7.0	68.64	2	12	1647.36	3.17	10	8	253.6	1900.96
<b>Marlborough</b>	BB	7.0	88.11	2	10	1762.2	6.6	7	6	277.2	2039.4

Ship	Class	BR	Main Gun TNT kg	Main Gun RPM	Broadside Guns	kg TNT /min Main	Sec. Gun HE TNT kg	Sec. Gun RPM	Broadside Guns	kg TNT /min Sec.	kg TNT/ min Total
Tobruk SAP	DD	4.7	0.91	20	4	72.8	0	0	0	0	72.8
Attilio Regolo	CL	4.7	1.8	7.5	8	108	0	0	0	0	108
Diana SAP	DD	4.7	0.91	20	6	109.2	0	0	0	0	109.2
Yuudachi	DD	4.7	2.31	10	5	115.5	0	0	0	0	115.5
Z43 BFHE	DD	4.7	1.4	18	5	126	0	0	0	0	126
Spokoinyy SAP	DD	5.0	2.21	15	4	132.6	0	0	0	0	132.6
Z32 SAP	DD	4.7	3.32	8	5	132.8	0	0	0	0	132.8
Shimakaze	DD	5.0	2.31	10	6	138.6	0	0	0	0	138.6
Kiyoshimo	DD	4.7	2.31	10	6	138.6	0	0	0	0	138.6
Dido SAP	CL	5.3	1.47	10	10	147	0	0	0	0	147
Z32	DD	4.7	3.91	8	5	156.4	0	0	0	0	156.4
Akizuki	DD	4.7	0.95	21	8	159.6	0	0	0	0	159.6
Isuzu	CL	5.0	1.96	14	6	164.64	0	0	0	0	164.64
Z43	DD	4.7	1.91	18	5	171.9	0	0	0	0	171.9
Sendai SAP	CL	5.0	2.96	10	6	177.6	0	0	0	0	177.6
Tobruk	DD	4.7	2.32	20	4	185.6	0	0	0	0	185.6
Sendai Kuma	CL	5.0	3.15	10	6	189	0	0	0	0	189
Somers SAP	DD	5.0	1.15	22	8	202.4	0	0	0	0	202.4
Spokoinyy / Blagorodnyy	DD	5.0	3.83	15	4	229.8	0	0	0	0	229.8
Z47	DD	4.7	2	20	6	240	0	0	0	0	240
Diana	CL	4.7	2.32	20	6	278.4	0	0	0	0	278.4
Atlanta SAP	CL	5.3	0.9065	22	14	279.202	0	0	0	0	279.202
Dido	CL	5.3	2.95	10	10	295	0	0	0	0	295
Somers / Porter / Moffett / Davis	DD	5.0	3.22	22	8	566.72	0	0	0	0	566.72
Atlanta	CL	5.3	3.22	22	14	991.76	0	0	0	0	991.76
Elbing SAP	CL	4.7	1.05	7	4	29.4	0.087	10	2	1.74	31.14
Elbing	CL	4.7	1.6	7	4	44.8	0.087	10	2	1.74	46.54
Trenton / Raleigh	CL	5.3	5.88	7	7	288.12	0.5	17	2	17	305.12
Hawkins SAP	CA	5.3	3.9	6	6	140.4	0.721	12	2	17.304	157.704
Enterprise SAP	CL	5.0	3.4	7	6	142.8	0.721	12	2	17.304	160.104
York SAP	CA	5.7	5.2	5	6	156	0.721	12	2	17.304	173.304
Enterprise	CL	5.0	6.6	7	6	277.2	0.721	12	2	17.304	294.504
Hawkins	CA	5.3	8.03	6	6	289.08	0.721	12	2	17.304	306.384
York	CA	5.7	10	5	6	300	0.721	12	2	17.304	317.304
Agano SAP	CL	5.3	2.92	10	6	175.2	0.399	25	2	19.95	195.15
Agano	CL	5.3	3.17	10	6	190.2	0.399	25	2	19.95	210.15
Yuubari	CL	4.7	3.15	10	4	126	1.95	11	1	21.45	147.45
Yuubari SAP	CL	4.7	3.96	10	4	158.4	1.95	11	1	21.45	179.85
Kent SAP	CA	6.0	5.2	5	8	208	0.721	12	3	25.956	233.956
Kent	CA	6.0	10	5	8	400	0.721	12	3	25.956	425.956
Colossus SAP	BB	6.7	36.3	2	10	726	0.7	8	7	39.2	765.2
Colossus	BB	6.7	53.13	2	10	1062.6	0.7	8	7	39.2	1101.8
Arizona	BB	6.7	46.67	1.5	12	840.06	0.78	9	6	42.12	882.18
Kako	CA	4.7	8.03	4	6	192.72	1.95	11	2	42.9	235.62
Furutaka / Aoba	CA	5.7	8.57	5	6	257.1	1.95	11	2	42.9	300
Emden SAP	CL	5.0	3.32	8	6	159.36	1.55	15	2	46.5	205.86
Emden	CL	5.0	3.91	8	6	187.68	1.55	15	2	46.5	234.18
North Dakota	BB	6.3	33.25	2	10	665	0.78	9	7	49.14	714.14
Bartolomeo Colleoni	CL	5.0	2.39	4	8	76.48	1.3	9.6	4	49.92	126.4
Duca degli Abruzzi	CL	5.7	2.39	6	10	143.4	1.3	9.6	4	49.92	193.32
Eugenio di Savoia / Raimondo Montecuccoli	CL	5.7	2.39	8	8	152.96	1.3	9.6	4	49.92	202.88
Leipzig SAP	CL	5.3	3.32	8	9	239.04	0.698	20	4	55.84	294.88
Koln SAP	CL	5.7	3.32	8	9	239.04	0.698	20	4	55.84	294.88
Leipzig	CL	5.3	3.91	8	9	281.52	0.698	20	4	55.84	337.36
Koln	CL	5.7	3.91	8	9	281.52	0.698	20	4	55.84	337.36
Nurnberg SAP	CL	5.7	3.32	12	9	358.56	0.698	20	4	55.84	414.4
Nurnberg	CL	5.7	3.91	12	9	422.28	0.698	20	4	55.84	478.12
Von der Tann SAP	BB	6.3	17	3	6	306	1.6	7	5	56	362
Wyoming	BB	6.7	33.25	2.2	12	877.8	0.78	9	8	56.16	933.96
Westfalen SAP	BB	6.3	17	3	8	408	1.6	7	6	67.2	475.2
Etna	CL	4.7	1.8	7.5	6	81	0.45	30	5	67.5	148.5
Trento	CA	5.3	7.5	3.4	4	102	1.3	9.6	6	74.88	176.88
Zara / Pola	CA	5.7	7.5	3.8	8	228	1.3	9.6	6	74.88	302.88
Dreadnought SAP	BB	6.3	36.3	2	8	580.8	0.52	15	10	78	658.8
Dreadnought	BB	6.3	53.13	2	8	850.08	0.52	15	10	78	928.08
Kaiser SAP	BB	6.3	10.8	3	8	259.2	1.6	7	7	78.4	337.6

<b>Kaiser / Helgoland / Ostfriesland</b>	BB	6.3	27	3	8	648	1.6	7	7	78.4	726.4
<b>Invincible SAP</b>	BC	6.3	36.3	2	8	580.8	0.721	20	6	86.52	667.32
<b>Invincible</b>	BC	6.3	53.13	2	8	850.08	0.721	20	6	86.52	936.6
<b>Kirov SAP</b>	CL	5.7	7	5.5	9	346.5	1.93	15	3	86.85	433.35
<b>Kirov / Maxim Gorky</b>	CL	5.7	7.9	5.5	9	391.05	1.93	15	3	86.85	477.9
<b>Bayern SAP</b>	BB	7.0	67.1	2.3	8	1234.64	1.6	7	8	89.6	1324.24
<b>Karlsruhe SAP</b>	CL	5.7	3.32	8	9	239.04	1.55	15	4	93	332.04
<b>Karlsruhe</b>	CL	5.7	3.91	8	9	281.52	1.55	15	4	93	374.52
<b>Krasny Krym SAP</b>	CL	5.3	1.67	8	8	106.88	2.06	12	4	98.88	205.76
<b>Krasny Krym</b>	CL	5.3	2.71	8	8	173.44	2.06	12	4	98.88	272.32
<b>Glorious SAP</b>	BC	5.7	58.6	2	4	468.8	0.721	12	12	103.824	572.624
<b>Suzuya / Mikuma</b>	CL	6.0	3.39	6	15	305.1	1.96	14	4	109.76	414.86
<b>Tone</b>	CA	6.0	8.57	5	8	342.8	1.96	14	4	109.76	452.56
<b>Mogami</b>	CA	6.0	8.57	5	10	428.5	1.96	14	4	109.76	538.26
<b>Myoko</b>	CA	5.7	8.57	5	10	428.5	1.96	14	4	109.76	538.26
<b>Arctusa SAP</b>	CL	5.3	1.7	8	6	81.6	1.55	20	4	124	205.6
<b>Leander SAP</b>	CL	5.3	1.7	8	8	108.8	1.55	20	4	124	232.8
<b>Liverpool SAP</b>	CL	5.7	1.7	8	9	122.4	1.55	20	4	124	246.4
<b>Southampton SAP</b>	CL	5.7	1.7	8	12	163.2	1.55	20	4	124	287.2
<b>Arctusa</b>	CL	5.3	3.96	8	6	190.08	1.55	20	4	124	314.08
<b>Leander</b>	CL	5.3	3.96	8	8	253.44	1.55	20	4	124	377.44
<b>Liverpool</b>	CL	5.7	3.96	8	9	285.12	1.55	20	4	124	409.12
<b>Southampton / Belfast</b>	CL	5.7	3.96	8	12	380.16	1.55	20	4	124	504.16
<b>London / Norfolk</b>	CA	5.7	10	5	8	400	1.55	20	4	124	524
<b>London SAP</b>	CA	5.7	10	5	8	400	1.55	20	4	124	524
<b>Graf Spee SAP</b>	CA	5.7	16.94	2.5	6	254.1	3.91	8	4	125.12	379.22
<b>Graf Spee</b>	CA	5.7	23.33	2.5	6	349.95	3.91	8	4	125.12	475.07
<b>Kongo / Haruna</b>	BC	7.0	32.45	2	8	519.2	3.17	10	4	126.8	646
<b>Kongo SAP</b>	BC	7.0	68.64	2	8	1098.24	3.17	10	4	126.8	1225.04
<b>Settsu</b>	BB	6.3	37.82	2	8	605.12	5.28	5	5	132	737.12
<b>Dante Alighieri SAP</b>	BB	6.3	31	2	12	744	2.2	6	10	132	876
<b>Chapayev SAP</b>	CL	6.0	5.9	7.5	12	531	1.94	18	4	139.68	670.68
<b>Chapayev / Zheleznyakov</b>	CL	6.0	6	7.5	12	540	1.94	18	4	139.68	679.68
<b>Krasny Kavkaz SAP</b>	CL	5.0	7	4	4	112	2.06	12	6	148.32	260.32
<b>Krasny Kavkaz</b>	CL	5.0	7.9	4	4	126.4	2.06	12	6	148.32	274.72
<b>Andrea Doria SAP</b>	BB	6.3	31	2	13	806	5.4	3.5	8	151.2	957.2
<b>Hipper SAP</b>	CA	5.7	5.35	5	8	214	1.55	17	6	158.1	372.1
<b>Admiral Hipper / Prinz Eugen</b>	CA	5.7	8.88	5	8	355.2	1.55	17	6	158.1	513.3
<b>Ikoma</b>	BC	5.7	37.82	2	4	302.56	5.28	5	6	158.4	460.96
<b>Parizhsкая SAP</b>	BB	7.0	55.2	2.2	12	1457.28	3.16	7	8	176.96	1634.24
<b>Parizhsкая</b>	BB	7.0	55.41	2.2	12	1462.824	3.16	7	8	176.96	1639.784
<b>Scharnhorst SAP</b>	BC	7.0	16.72	3.5	9	526.68	3.91	8	6	187.68	714.36
<b>Scharnhorst</b>	BC	7.0	21.49	3.5	9	676.935	3.91	8	6	187.68	864.615
<b>Tiger</b>	CL	5.7	7.81	20	4	624.8	0.528	90	4	190.08	814.88
<b>Poltava</b>	BB	6.7	47.48	1.8	12	1025.568	3.73	7	8	208.88	1234.448
<b>Poltava SAP</b>	BB	6.7	55.2	1.8	12	1192.32	3.73	7	8	208.88	1401.2
<b>Sverdlov SAP</b>	CL	6.0	5.9	7.5	12	531	1.94	18	6	209.52	740.52
<b>Sverdlov / Mikhail Kutuzov</b>	CL	6.0	6	7.5	12	540	1.94	18	6	209.52	749.52
<b>Hyuga SAP</b>	BB	7.0	68.64	2	12	1647.36	2.21	10	10	221	1868.36
<b>Kovf SAP</b>	BC	7.0	58.6	2	8	937.6	1.55	20	8	248	1185.6
<b>Fuso</b>	BB	7.0	32.45	2	12	778.8	3.17	10	8	253.6	1032.4
<b>Fuso SAP</b>	BB	7.0	68.64	2	12	1647.36	3.17	10	8	253.6	1900.96
<b>Portland SAP</b>	CA	5.3	4.61	3.5	9	145.215	3.25	20	4	260	405.215
<b>New Orleans SAP</b>	CA	5.3	4.61	3.5	9	145.215	3.25	20	4	260	405.215
<b>Pensacola SAP</b>	CA	5.3	4.61	3.5	10	161.35	3.25	20	4	260	421.35
<b>Portland / Southampton</b>	CA	5.3	9.5	3.5	9	299.25	3.25	20	4	260	559.25
<b>New Orleans</b>	CA	5.7	9.5	3.5	9	299.25	3.25	20	4	260	559.25
<b>Pensacola</b>	CA	5.3	9.5	3.5	10	332.5	3.25	20	4	260	592.5
<b>Brooklyn /</b>	CL	6.0	5.88	10	15	882	3.25	20	4	260	1142
<b>Marlborough SAP</b>	BB	7.0	53.3	2	10	1066	6.6	7	6	277.2	1343.2
<b>Marlborough</b>	BB	7.0	88.11	2	10	1762.2	6.6	7	6	277.2	2039.4
<b>Helena</b>	CL	6.0	5.88	10	15	882	3.22	22	4	283.36	1165.36
<b>Mariya</b>	BB	6.7	47.48	1.8	12	1025.568	3.9	8	10	312	1337.568
<b>Mariya SAP</b>	BB	6.7	55.2	1.8	12	1192.32	3.9	8	10	312	1504.32
<b>Kronstadt</b>	BC	7.0	55.41	3	9	1496.07	6.56	15	4	393.6	1889.67



Baltimore SAP	CA	6.0	4.61	4	9	165.96	3.22	22	8	566.72	732.68
Baltimore / Pittsburgh	CA	6.0	9.5	4	9	342	3.22	22	8	566.72	908.72
Cleveland Fargo	CL	6.0	5.88	10	12	705.6	3.22	22	8	566.72	1272.32
Alaska	BC	7.0	35.31	3	9	953.37	3.22	22	8	566.72	1520.09

Ship	Class	BR	Main Gun TNT kg	Main Gun RPM	Broadside Guns	kg TNT /min Main	Sec. Gun HE TNT kg	Sec. Gun RPM	Broadside Guns	kg TNT /min Sec.	kg TNT/ min Total
Kaiser SAP	BB	6.3	10.8	3	8	259.2	1.6	7	7	78.4	337.6
Von der Tann SAP	BB	6.3	17	3	6	306	1.6	7	5	56	362
Ikoma	BC	5.7	37.82	2	4	302.56	5.28	5	6	158.4	460.96
Westfalen SAP	BB	6.3	17	3	8	408	1.6	7	6	67.2	475.2
Glorious SAP	BC	5.7	58.6	2	4	468.8	0.721	12	12	103.824	572.624
Kongo / Haruna	BC	7.0	32.45	2	8	519.2	3.17	10	4	126.8	646
Dreadnought SAP	BB	6.3	36.3	2	8	580.8	0.52	15	10	78	658.8
Invincible SAP	BC	6.3	36.3	2	8	580.8	0.721	20	6	86.52	667.32
North Dakota	BB	6.3	33.25	2	10	665	0.78	9	7	49.14	714.14
Scharnhorst SAP	BC	7.0	16.72	3.5	9	526.68	3.91	8	6	187.68	714.36
Kaiser / Helgoland / Ostfriesland	BB	6.3	27	3	8	648	1.6	7	7	78.4	726.4
Settsu	BB	6.3	37.82	2	8	605.12	5.28	5	5	132	737.12
Colossus SAP	BB	6.7	36.3	2	10	726	0.7	8	7	39.2	765.2
Scharnhorst	BC	7.0	21.49	3.5	9	676.935	3.91	8	6	187.68	864.615
Dante Alighieri SAP	BB	6.3	31	2	12	744	2.2	6	10	132	876
Arizona	BB	6.7	46.67	1.5	12	840.06	0.78	9	6	42.12	882.18
Dreadnought	BB	6.3	53.13	2	8	850.08	0.52	15	10	78	928.08
Wyoming	BB	6.7	33.25	2.2	12	877.8	0.78	9	8	56.16	933.96
Invincible	BC	6.3	53.13	2	8	850.08	0.721	20	6	86.52	936.6
Andrea Doria SAP	BB	6.3	31	2	13	806	5.4	3.5	8	151.2	957.2
Fuso	BB	7.0	32.45	2	12	778.8	3.17	10	8	253.6	1032.4
Colossus	BB	6.7	53.13	2	10	1062.6	0.7	8	7	39.2	1101.8
Hood SAP	BC	7.0	58.6	2	8	937.6	1.55	20	8	248	1185.6
Kongo SAP	BC	7.0	68.64	2	8	1098.24	3.17	10	4	126.8	1225.04
Poltava	BB	6.7	47.48	1.8	12	1025.568	3.73	7	8	208.88	1234.448
Bayern SAP	BB	7.0	67.1	2.3	8	1234.64	1.6	7	8	89.6	1324.24
Mariya	BB	6.7	47.48	1.8	12	1025.568	3.9	8	10	312	1337.568
Marlborough SAP	BB	7.0	53.3	2	10	1066	6.6	7	6	277.2	1343.2
Poltava SAP	BB	6.7	55.2	1.8	12	1192.32	3.73	7	8	208.88	1401.2
Maryaia SAP	BB	6.7	55.2	1.8	12	1192.32	3.9	8	10	312	1504.32
Alaska	BC	7.0	35.31	3	9	953.37	3.22	22	8	566.72	1520.09
Parizhskaya SAP	BB	7.0	55.2	2.2	12	1457.28	3.16	7	8	176.96	1634.24
Parizhskaya	BB	7.0	55.41	2.2	12	1462.824	3.16	7	8	176.96	1639.784
Hyuga SAP	BB	7.0	68.64	2	12	1647.36	2.21	10	10	221	1868.36
Kronstadt	BC	7.0	55.41	3	9	1496.07	6.56	15	4	393.6	1889.67
Fuso SAP	BB	7.0	68.64	2	12	1647.36	3.17	10	8	253.6	1900.96
Marlborough	BB	7.0	88.11	2	10	1762.2	6.6	7	6	277.2	2039.4
<b>Ship</b>	<b>Class</b>	<b>BR</b>	<b>Main Gun TNT kg</b>	<b>Main Gun RPM</b>	<b>Broadside Guns</b>	<b>kg TNT /min Main</b>	<b>Sec. Gun HE TNT kg</b>	<b>Sec. Gun RPM</b>	<b>Broadside Guns</b>	<b>kg TNT /min Sec.</b>	<b>kg TNT/ min Total</b>
Elbing SAP	CL	4.7	1.05	7	4	29.4	0.087	10	2	1.74	31.14
Elbing	CL	4.7	1.6	7	4	44.8	0.087	10	2	1.74	46.54
Attilio Regolo	CL	4.7	1.8	7.5	8	108	0	0	0	0	108
Bartolomeo Colleoni	CL	5.0	2.39	4	8	76.48	1.3	9.6	4	49.92	126.4
Dido SAP	CL	5.3	1.47	10	10	147	0	0	0	0	147
Yuubari	CL	4.7	3.15	10	4	126	1.95	11	1	21.45	147.45
Etna	CL	4.7	1.8	7.5	6	81	0.45	30	5	67.5	148.5
Hawkins SAP	CA	5.3	3.9	6	6	140.4	0.721	12	2	17.304	157.704
Enterprise SAP	CL	5.0	3.4	7	6	142.8	0.721	12	2	17.304	160.104
Isuzu	CL	5.0	1.96	14	6	164.64	0	0	0	0	164.64
York SAP	CA	5.7	5.2	5	6	156	0.721	12	2	17.304	173.304
Trento	CA	5.3	7.5	3.4	4	102	1.3	9.6	6	74.88	176.88
Sendai SAP	CL	5.0	2.96	10	6	177.6	0	0	0	0	177.6
Yuubari SAP	CL	4.7	3.96	10	4	158.4	1.95	11	1	21.45	179.85
Sendai Kuma	CL	5.0	3.15	10	6	189	0	0	0	0	189
Duca degli Abruzzi	CL	5.7	2.39	6	10	143.4	1.3	9.6	4	49.92	193.32
Agano SAP	CL	5.3	2.92	10	6	175.2	0.399	25	2	19.95	195.15
Eugenio di Savoia / Raimondo Montecuccoli	CL	5.7	2.39	8	8	152.96	1.3	9.6	4	49.92	202.88
Arethusa SAP	CL	5.3	1.7	8	6	81.6	1.55	20	4	124	205.6
Krasny Krym SAP	CL	5.3	1.67	8	8	106.88	2.06	12	4	98.88	205.76
Emden SAP	CL	5.0	3.32	8	6	159.36	1.55	15	2	46.5	205.86
Agano	CL	5.3	3.17	10	6	190.2	0.399	25	2	19.95	201.15
Leander SAP	CL	5.3	1.7	8	8	108.8	1.55	20	4	124	232.8
Kent SAP	CA	6.0	5.2	5	8	208	0.721	12	3	25.956	233.956
Emden	CL	5.0	3.91	8	6	187.68	1.55	15	2	46.5	234.18
Kako	CA	4.7	8.03	4	6	192.72	1.95	11	2	42.9	235.62
Liverpool SAP	CL	5.7	1.7	8	9	122.4	1.55	20	4	124	246.4
Krasny Kavkaz SAP	CL	5.0	7	4	4	112	2.06	12	6	148.32	260.32
Krasny Krym	CL	5.3	2.71	8	8	173.44	2.06	12	4	98.88	272.32
Krasny Kavkaz	CL	5.0	7.9	4	4	126.4	2.06	12	6	148.32	274.72

Diana	CL	4.7	2.32	20	6	278.4	0	0	0	0	278.4
Atlanta SAP	CL	5.3	0.9065	22	14	279.202	0	0	0	0	279.202
Southampton SAP	CL	5.7	1.7	8	12	163.2	1.55	20	4	124	287.2
Enterprise	CL	5.0	6.6	7	6	277.2	0.721	12	2	17.304	294.504
Leipzig SAP	CL	5.3	3.32	8	9	239.04	0.698	20	4	55.84	294.88
Koln SAP	CL	5.7	3.32	8	9	239.04	0.698	20	4	55.84	294.88
Dido	CL	5.3	2.95	10	10	295	0	0	0	0	295
Furutaka / Aoba	CA	5.7	8.57	5	6	257.1	1.95	11	2	42.9	300
Zara / Pola	CA	5.7	7.5	3.8	8	228	1.3	9.6	6	74.88	302.88
Trenton / Raleigh	CL	5.3	5.88	7	7	288.12	0.5	17	2	17	305.12
Hawkins	CA	5.3	8.03	6	6	289.08	0.721	12	2	17.304	306.384
Arethusa	CL	5.3	3.96	8	6	190.08	1.55	20	4	124	314.08
York	CA	5.7	10	5	6	300	0.721	12	2	17.304	317.304
Karlsruhe SAP	CL	5.7	3.32	8	9	239.04	1.55	15	4	93	332.04
Leipzig	CL	5.3	3.91	8	9	281.52	0.698	20	4	55.84	337.36
Koln	CL	5.7	3.91	8	9	281.52	0.698	20	4	55.84	337.36
Hipper SAP	CA	5.7	5.35	5	8	214	1.55	17	6	158.1	372.1
Karlsruhe	CL	5.7	3.91	8	9	281.52	1.55	15	4	93	374.52
Leander	CL	5.3	3.96	8	8	253.44	1.55	20	4	124	377.44
Graf Spee SAP	CA	5.7	16.94	2.5	6	254.1	3.91	8	4	125.12	379.22
Portland SAP	CA	5.3	4.61	3.5	9	145.215	3.25	20	4	260	405.215
New Orleans SAP	CA	5.3	4.61	3.5	9	145.215	3.25	20	4	260	405.215
Everpool	CL	5.7	3.96	8	9	285.12	1.55	20	4	124	409.12
Nurnberg SAP	CL	5.7	3.32	12	9	358.56	0.698	20	4	55.84	414.4
Suzuya / Mikuma	CL	6.0	3.39	6	15	305.1	1.96	14	4	109.76	414.86
Pensacola SAP	CA	5.3	4.61	3.5	10	161.35	3.25	20	4	260	421.35
Kent	CA	6.0	10	5	8	400	0.721	12	3	25.956	425.956
Kirov SAP	CL	5.7	7	5.5	9	346.5	1.93	15	3	86.85	433.35
Tone	CA	6.0	8.57	5	8	342.8	1.96	14	4	109.76	452.56
Graf Spee	CA	5.7	23.33	2.5	6	349.95	3.91	8	4	125.12	475.07
Kirov / Maxim Gorky	CL	5.7	7.9	5.5	9	391.05	1.93	15	3	86.85	477.9
Nurnberg	CL	5.7	3.91	12	9	422.28	0.698	20	4	55.84	478.12
Southampton / Belfast	CL	5.7	3.96	8	12	380.16	1.55	20	4	124	504.16
Admiral Hipper / Prinz Eugen	CA	5.7	8.88	5	8	355.2	1.55	17	6	158.1	513.3
London / Norfolk	CA	5.7	10	5	8	400	1.55	20	4	124	524
London SAP	CA	5.7	10	5	8	400	1.55	20	4	124	524
Mogami	CA	6.0	8.57	5	10	428.5	1.96	14	4	109.76	538.26
Myoko	CA	5.7	8.57	5	10	428.5	1.96	14	4	109.76	538.26
Portland / Southampton	CA	5.3	9.5	3.5	9	299.25	3.25	20	4	260	559.25
New Orleans	CA	5.7	9.5	3.5	9	299.25	3.25	20	4	260	559.25
Pensacola	CA	5.3	9.5	3.5	10	332.5	3.25	20	4	260	592.5
Chapayev SAP	CL	6.0	5.9	7.5	12	531	1.94	18	4	139.68	670.68
Chapayev / Zheleznyakov	CL	6.0	6	7.5	12	540	1.94	18	4	139.68	679.68
Baltimore SAP	CA	6.0	4.61	4	9	165.96	3.22	22	8	566.72	732.68
Sverdlov SAP	CL	6.0	5.9	7.5	12	531	1.94	18	6	209.52	740.52
Sverdlov / Mikhail Kutuzov	CL	6.0	6	7.5	12	540	1.94	18	6	209.52	749.52
Tiger	CL	5.7	7.81	20	4	624.8	0.528	90	4	190.08	814.88
Baltimore / Pittsburgh	CA	6.0	9.5	4	9	342	3.22	22	8	566.72	908.72
Atlanta	CL	5.3	3.22	22	14	991.76	0	0	0	0	991.76
Brooklyn / Helena	CL	6.0	5.88	10	15	882	3.22	20	4	260	1142
Helena	CL	6.0	5.88	10	15	882	3.22	22	4	283.36	1165.36
Cleveland Fargo	CL	6.0	5.88	10	12	705.6	3.22	22	8	566.72	1272.32
Ship	Class	BR	Main Gun TNT kg	Main Gun RPM	Broadside Guns	kg TNT /min Main	Sec. Gun HE TNT kg	Sec. Gun RPM	Broadside Guns	kg TNT /min Sec.	kg TNT/ min Total
Tobruk SAP	DD	4.7	0.91	20	4	72.8	0	0	0	0	72.8
Diana SAP	DD	4.7	0.91	20	6	109.2	0	0	0	0	109.2
Yuudachi	DD	4.7	2.31	10	5	115.5	0	0	0	0	115.5
Z43 BFHE	DD	4.7	1.4	18	5	126	0	0	0	0	126
Spokoinyy SAP	DD	5.0	2.21	15	4	132.6	0	0	0	0	132.6
Z32 SAP	DD	4.7	3.32	8	5	132.8	0	0	0	0	132.8
Shimakaze	DD	5.0	2.31	10	6	138.6	0	0	0	0	138.6
Kiyoshimo	DD	4.7	2.31	10	6	138.6	0	0	0	0	138.6
Z32	DD	4.7	3.91	8	5	156.4	0	0	0	0	156.4
Akizuki	DD	4.7	0.95	21	8	159.6	0	0	0	0	159.6
Z43	DD	4.7	1.91	18	5	171.9	0	0	0	0	171.9

<b>Tobruk</b>	DD	4.7	2.32	20	4	185.6	0	0	0	0	185.6
<b>Somers SAP</b>	DD	5.0	1.15	22	8	202.4	0	0	0	0	202.4
<b>Spokoinyy / Blagorodnyy</b>	DD	5.0	3.83	15	4	229.8	0	0	0	0	229.8
<b>Z47</b>	DD	4.7	2	20	6	240	0	0	0	0	240
<b>Somers / Porter / Moffett / Davis</b>	DD	5.0	3.22	22	8	566.72	0	0	0	0	566.72