

The Admiralty Trilogy 2012 Standard Damage Point Summary

*by Larry Bond
and Andy Doty*



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Many of us are familiar with the story of USS *Laffey* (DD-724), a *Sumner*-class destroyer that withstood multiple kamikaze attacks during the battle of Okinawa and kept on fighting. By rights, and in our game *Command at Sea*, she would have been sunk.

A more recent example is the SINKEX of the decommissioned USS *Buchanan* (DDG-14), which we covered in the article “Proving the Rule” in issue #20 of *The Naval SITREP* (April 2001). According to the damage point formula then in use, she should have sunk. She didn’t.

Smaller ships could take more damage than our game allowed. We acknowledged that we didn’t understand why, and promised to keep working on it.

And we did. We refined the mathematical model used to calculate damage points for naval vessels and published the new formula in “Smoothing the Curve,” which appeared in issue #31 (October 2006). It still didn’t answer the small-ship issue, but it was better.

In the April 2012 issue of *The Naval SITREP* (issue #42), Chris Carlson presented a new formula. He hadn’t been looking for one. He was researching the “ship life equation,” a naval concept describing how long a ship could resist damage. In the course of that work, he

discovered a way to more correctly describe the damage a ship can suffer. It increases the damage points a ships has, with small ships getting more of an increase than larger vessels.

The result is that WW II destroyers won’t simply evaporate from a single turn of heavy cruiser fire (it will still make a respectable divot). Small craft (Size classes E, F, and G) now have more of a chance of not dying instantly.

Case studies (including USS *Buchanan*) validate the new method. It’s a tremendous accomplishment for Chris, and also a huge problem.

All the *Admiralty Trilogy* games and supplements published by Clash of Arms for all three games (*FG&DN*, *CaS*, and *Harpoon*) have ship data annexes using the 2006 formula. If we immediately start using the 2012 formula in *The Naval SITREP* and the games and supplements, it would create tremendous confusion.

For example, in 2012 we were in the middle of publishing the Fleet series, which provided statistics for all the WW II ships in *CaS* in 4th edition standard. What if *Mediterranean Fleets* (2013) used different damage formulas than *Home Fleet* (2009)?

After some discussion, we decided to keep on using the 2006 formula (“2006 Standard”) until the *Fleet* series was completed. *Arctic Fleets*, the last supplement in the series, will be published soon.

Shattered Armada, published this year, will be the first supplement published using the 2012 Standard for damage points, because all the naval vessels needed for the scenarios are included in Annex A of that supplement. Player who compare the British or German ships in *Shattered Armada* with the listings in *Home Fleet* or *Gruppe Nord* will immediately see the difference.

For the ships that have already been published, we have created this damage point summary. It lists all the ships ever published in the *Admiralty Trilogy* - their displacements, any damage modifiers, and their new damage point breakdowns using the 2012 Standard formula.

There are no new rules associated with this change, just new numbers, which is why we’re taking the time to tell you about the changes. As far as the players are concerned, they’re just different numbers. But we want the players to see what’s going on “behind the curtain,” so they’ll understand the reasons for this major change.

We apologize in advance for any confusion or problems this may cause, but we believe the change will improve the accuracy of the game and the quality of play.

As always, if you have any questions or comments about this or any *Trilogy* product, please contact us at sales@clashofarms.com.

Thanks to Andy Doty for compiling the information on the thousands of ship classes listed in all the Trilogy publications.

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This document introduces a new damage modifier of -25% for ships laid down before 1895. It is NOT used in addition to the modifier for ships laid down before 1925. The modifier for wooden ships is increased from -25% to -35%. These changes are included in the Annex Z extract on page 9.

Cover: Ex-USS Towers (DDG-9), a Charles F. Adams class DDG, was decommissioned on 1 October 1990 and was guest of honor at a SINKEX on 9 October 2002.

Table of Contents

Proving The Rule, from <i>NSITREP</i> #20 (Apr 2001)	3
Smoothing the Curve, from <i>NSITREP</i> #31 (October 2006)	4
Giving the Small Boys a Chance, from <i>NSITREP</i> #42 (April 2012)	5
Calculating a Ship’s Damage Points (taken from Annex Z)	9
Damage Point Listings	
<i>Fear God & Dread Nought</i> (up to 1925)	10
<i>Command at Sea</i> (1925 - 1960)	40
<i>Harpoon</i> (1960 and on)	102

Proving the Rule

On June 14, 2000, the former USS Buchanan (DDG-14) had a starring role in RIMPAC 2000, as a target in a SINKEX.

According to Navy accounts, she was struck by three Hellfire missiles, three Harpoon missiles, and a 2400 lb-laser-guided bomb, but did not sink. She was eventually scuttled with explosive charges.

The question is, as one of my friends asked me, "Why didn't she sink? Is there something wrong with the damage model in the Trilogy games?"

It's time to crunch some numbers.

Buchanan (DDG-14) was an Adams-class DDG, commissioned in 1962, and decommissioned in 1991. According to Harpoon's Annex A, an Adams-class DDG, with a standard displacement of 3350 tons, has 103 damage points.

The three weapons used were the AGM-114 Hellfire (9 kg warhead, 2 damage points), the AGM-84 Harpoon (227 kg warhead, 20 damage points), and (probably) the GBU-24 Paveway III (429 kg warhead, 72 damage points).

The Paveway is the only uncertainty, since the Navy simply described the weapon as a "2400 lb laser-guided bomb." The other most likely candidate is the GBU-15. It

has the same warhead and inflicts the same damage points.

We can make some assumptions about the exercise. First, it's safe to assume the weapons were all standard warshots. Second, they probably started with the smaller weapons, and saved the GBU for dessert, since if they did use the big guy first, there might not be a target left for anyone else.

The total damage inflicted was $(3 * 2) + (3 * 20) + 72$ points = 132 damage points. This is enough to put her under, regardless of criticals.

Another safe assumption is that the weapons did not strike the ship simultaneously. While the Harpoons could have been launched in a TOT strike from different platforms, a simultaneous strike complicates data collection, like whose weapons worked and whose didn't. The others were certainly launched singly.

The Hellfires were pinpricks, simply inflicting their damage and generating a critical hit roll of less than .01.

The Harpoons would generate critical hit rolls on the .2, the .3, and the .8 line. While she might escape criticals on the first two strikes, she would suffer 4 - 9 criticals on the third hit.

Those criticals would have a different effect than in a true combat situation. First, the ship is not in a fight, and is not moving. Thus, sensor, weapon, bridge, rudder, and engineering critical effect can be ignored.

Also, all ordnance had been removed, and for environmental reasons, the ship was defuelled. A lot of flammable material would have been removed during the decommissioning process as well. This means no secondaries, and the risk of fire is much reduced.

Thus, only flooding casualties would have any real effect, and depending on the roll of the "die," Buchanan's hull might still be intact.

The big question is the GBU. It packed enough damage to cripple the ship all by itself, and at this point Buchanan only had 37 points left.

Looking for solutions inside the model, the bomb might have inflicted enough damage to sink Buchanan, but the "sinking roll," the time taken to actually disappear after inflicting fatal damage, might have been too long. The die roll is 3D6 Tactical Turns, or a maximum of 54 minutes. Were they just impatient to finish the event? Almost certainly not.



Ex-USS Buchanan finally goes down

U.S. Navy photo by Nick Galante

Smoothing the Curve: A New Damage Point Formula

by Chris Carlson and Brooks Rowlett

In the April 2006 issue of *The Naval SITREP*, there was a brief note in the article on page 19 (Above-Water Damage in the *Admiralty Trilogy*). It mentioned a new single damage point equation that was going to replace the four-part equation currently used in the *Admiralty Trilogy*. This article formally introduces this new damage point equation, along with a refined list of modifiers which replaces those currently found in Annex Z (formerly Annex Q) Conversion Factors and Scales.

The reason for the change was the discontinuities, or jumps, in the damage points of ships near the boundaries of one of the four equations. This new model puts everything on a single curve. For the most part, the damage point values calculated with the new model are within 10% of the values from the older method. Smaller ships tend to get a slight increase in damage points, while very large ships (carriers) see some decrease.

The new equation is:

$$DP = 0.177 \times (\text{Standard Disp})^{0.80}$$

Displacement Types

Standard displacement was used, since it is provided in many of the standard ship references (*Combat Fleets*, *Conways*, and *Jane's*). While standard displacement and normal displacement aren't exactly the same, they are close enough for the normal displacement value to be used directly.

If light ship displacement is all that is available, multiply it by 1.13 to get an approximate standard displacement. In the case of full load displacement, multiply it by 0.85 to get an approximate standard displacement.

If both lightship and full load displacement are provided, the two conversions will not result in the same value for standard displacement. Average the two.

For merchant ships where gross registered tonnage, or GRT, is all that is provided, multiply the GRT by 0.75 to approximate standard displacement.

For submarines, use the submerged displacement.

Damage Point Modifiers

These modifiers are applied to the damage points of a vessel after they have been calculated. Where more than one modifier applies, add them together, then apply them to the damage value to get the final value. The modifiers are broken up into two categories: ship type or construction and materials.

Ship Type/Construction Modifiers

- Submarine: -.50
- Merchant construction: -.50
- Supertanker: -.75
- Converted merchant warship: -.35
- Warships built to mercantile standards:
 - before 1990: -.25
 - 1990 and on: -.15
- Fleet auxiliary: -.25
- Amphibious ship: -.25
- Minelayer: -.25
- Multi-hull ship (catamaran, SWATH): -.25
- ACV/SES light construction: -.20
- Keel laid before 1925: -.15 (but not wooden construction)
- National Modifier: -.10 (Soviet surface ships, Albania, Bulgaria, India, PRC, Romania, Yugoslavia)

Construction Material Modifiers

- ACV all rubber skirt: -.30
- Wood construction: -.25
- All aluminum construction: -.25
- Aluminum superstructure: -.15
- Glass reinforced plastic/fiberglass: -.10
- Titanium construction: +.15

Example 1:

The WW I German *Bayern* class battleship, 28047 tons normal displacement, in service 1915. The old damage point value was 496. There is a special damage modifier of -15% because she was laid down before 1925.

$$\begin{aligned} \text{The new dp value is:} \\ &= 0.177 \times (28047)^{0.80} \times (1 - .15) \\ &= 0.177 \times 3617 \times 0.85 \\ &= 544 \text{ damage points} \end{aligned}$$

Example 2:

The German Raider *Thor*, ex-MS *Santa Cruz*. Displacement is 3862 grt. She was laid down after 1925. The Germans took her into service in 1938 and modified her as a raider but they did not change or improve her damage resistance, so she has a special damage modifier of -50% for merchant construction. The old dp value was 54.

$$\begin{aligned} \text{The new damage value is:} \\ &= 0.177 \times (3862 \times 0.75)^{0.80} \times (1 - 0.5) \\ &= 0.177 \times (2897)^{0.80} \times 0.5 \\ &= 0.177 \times 588 \times 0.5 \\ &= 52 \text{ damage points} \end{aligned}$$

Example 3:

The Soviet Project 711 [Polnocny B] entered service in 1965, and has a standard displacement of 750 tons. She is an amphibious ship, and also uses the national modifier of -10. Her old damage point value was 22.

$$\begin{aligned} \text{The new damage value is:} \\ &= 0.177 \times (750)^{0.80} \times (1 - .25 - .10) \\ &= 0.177 \times 200 \times 0.65 \\ &= 23 \text{ damage points} \end{aligned}$$

Example 4:

The Soviet Project 1239 Sivuch [Dergach] entered service in 1988, and has a standard displacement of 910 tons. She is a surface effect ship (-.20), is of all-aluminum construction (-.25), and also uses the national modifier of -10. Her old damage point value was 10.

$$\begin{aligned} \text{The new damage value is:} \\ &= 0.177 \times (910)^{0.80} \times (1 - .20 - .25 - .10) \\ &= 0.177 \times 233 \times 0.45 \\ &= 19 \text{ damage points} \end{aligned}$$

There is no change in how damage point values are used in the game, and most gamers will never have to use these equations. We wrote this article so players can understand why numbers for established classes may change. This also allows players to calculate damage point values for ships that are not in the game right now.

Our goal is to have all the platforms and weapons in the *Admiralty Trilogy* game system based on the same reference frame. A future *SITREP* article will address more deeply the underlying game design assumptions and analysis that support this new model.

BT

Giving the Small Boys a Chance: Refining the *Admiralty Trilogy* Ship Damage Equation

by Chris Carlson

After *Command at Sea* was published in 1994, player feedback started trickling in suggesting that surface combatants, particularly smaller ones, died too fast in combat. Analysis showed there was a problem, and we made major changes to the gunnery model in 1995. These changes were published in the *Naval SITREP* #4 (July 1995) and were subsequently folded into the second edition of *Command at Sea*.

This seemed to solve the problem and the design team moved on to other projects. But when *Fear God & Dread Nought* was published in 2001, the cry of, “My ship sinks too fast” was heard once again. However, even the players providing this feedback tempered their own criticisms by admitting that World War I destroyers were flimsy vessels and couldn’t survive long in a pitched battle. It wasn’t until we published the Russo-Japanese War supplement, *Dawn of the Rising Sun*, in 2004 that we knew for certain that a problem still existed.

This was among the reasons for the “Harmonization Project,” to get the modeling across all *Admiralty Trilogy* games in sync with each other, and with physics and history.

Over the next three years, we made changes to weapons effects, ship damage point calculations and damage control. In 2005, we overhauled the underwater damage model and published it in *Naval SITREP* #28 (April 2005).

The following year, above water damage underwent a similar revision (Issue 30, April 2006), and the ship damage point equations were condensed down into a single equation (Issue 31, October 2006). Finally, the damage control rules were revised and published in *Naval SITREP* #32 (April 2007).

All of these changes were incorporated into the 4th edition of *Command at Sea*. Each one gave small combatants a little boost, although the revision to underwater damage was quite small, since it only reduced the damage from torpedoes with large warheads (*i.e.*, Type 93 “Long Lance”).

Enter, stage left, *Harpoon 3 MILSIM*.

During discussions in early 2011 between Advanced Gaming Systems Incorporated (AGSI) and a potential customer on the use of *Harpoon 3 MILSIM* for training and analytical purposes, the customer asked if the log-keeping feature of the computer game could be modified to display the probability of a ship sinking

given its state of damage. The current Computer *Harpoon 3* product does not include such a function.

However, this concept is part of a future board game design, so we decided to move up development, since it would help both the computer and manual gaming products. Little did we know that Pandora’s Box had just been opened.

The development of the probability of sinking function proved to be far more difficult than first anticipated. There was scant literature that even discussed the topic. Thus, we had to do original analysis. Our initial focus was on underwater weapons, since they do the most damage per hit. We used a number of historical studies, as well as U.S. Navy and Royal Navy wargames from the 1920s and 1930s.

During the review of U.S. Navy damage reports, specifically *War Damage Reports* 50 and 51, it became clear that the damage capacity of destroyers, at least U.S. destroyers, was poorly represented in our games. Further investigation of U.S. and Royal Navy annual war damage summaries, and an Office of Naval Intelligence (ONI) product, *The Striking Power of Air-Borne Weapons* (July 1944), confirmed our initial findings that destroyers as a group were undervalued – and not by just a little.

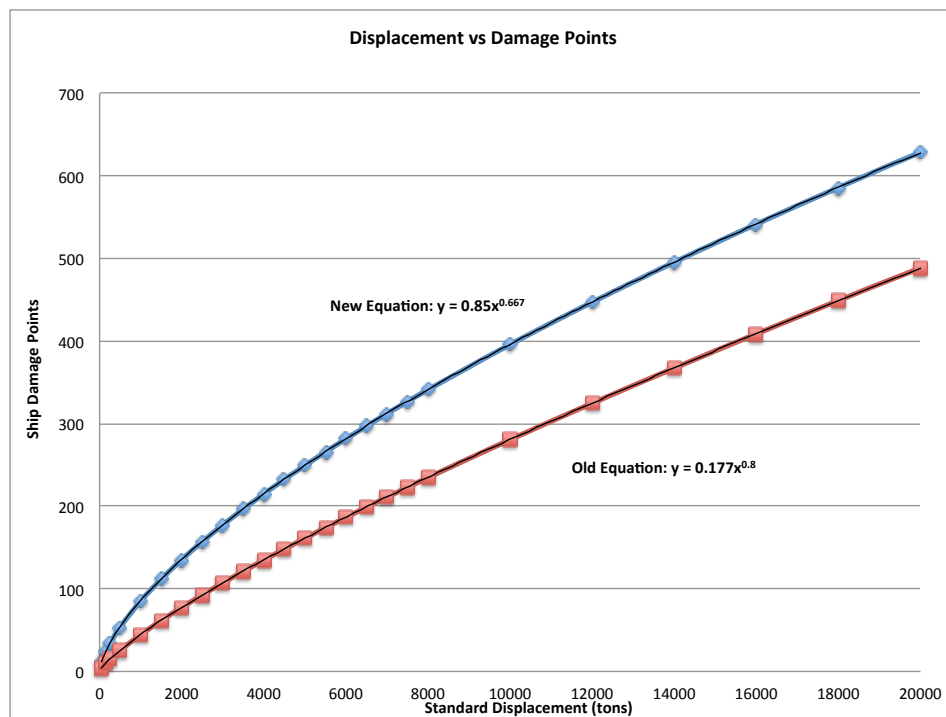
With the current damage point model, no destroyer can take a heavyweight torpedo hit and survive. Even the largest U.S. destroyers will only have a handful of

damage points remaining after a single hit. The vast majority of destroyers, however, have fewer damage points than a single torpedo warhead. An across-the-board review of the damage report summaries and the ONI document all showed that historically, at least 25% of the time, a destroyer did in fact survive a torpedo hit. It was damaged, of course, but afloat.

To correct this would require either significantly reducing torpedo damage or increasing damage points for smaller ships. The former wasn’t a viable option, since torpedo damage versus larger ships closely matches the historical record. This left revising the damage point equation as the only reasonable path. And in retrospect, this shouldn’t be too surprising, as the basis for the current ship damage point equation is 28 years old.

The genesis for the original four damage point equations used in the *Admiralty Trilogy* games goes all the way back to *Harpoon II* published in 1984.

This legacy was preserved even with the single equation described in *Naval SITREP* issue #31, as the new equation was merely a curve fitting of the four older ones. And with the exception of minor changes near the boundaries of the older equations, ship damage point values remained more or less unchanged.



But while the damage point equation needed to be changed, we had to be careful. While small ships did not match the historical record, large ships, greater than 18,000 tons, did hold up well to historical review.

Overhauling the Ship Damage Point Equation

We wanted to preserve the current simplicity of the damage point equation, a single coefficient and power function applied to a ship's standard displacement.

Initially, we took an approach based on volume, with displacement being raised to the one-third-power, but the results for large ships were very disappointing. Assuming that some form of a cube root power function was still the way to go, the next attempt went with the square of first equation, that is, displacement raised to the two-thirds power. The resulting curve shape was better, but it was far too concave and made the damage point values for larger ships too high. After a long iterative process, we adopted a final equation that provided significant improvements in damage point values for ships under 12,000 tons, and only minor increases for ships greater than 45,000 tons.

A re-run of all the case studies through the probability of sinking equation showed the results were more consistent with the historical record. The old and new damage point models, and their equations, are provided in the chart on page 13. The new damage point equation is the only change. The special damage modifiers for construction date and materials remain unaltered.

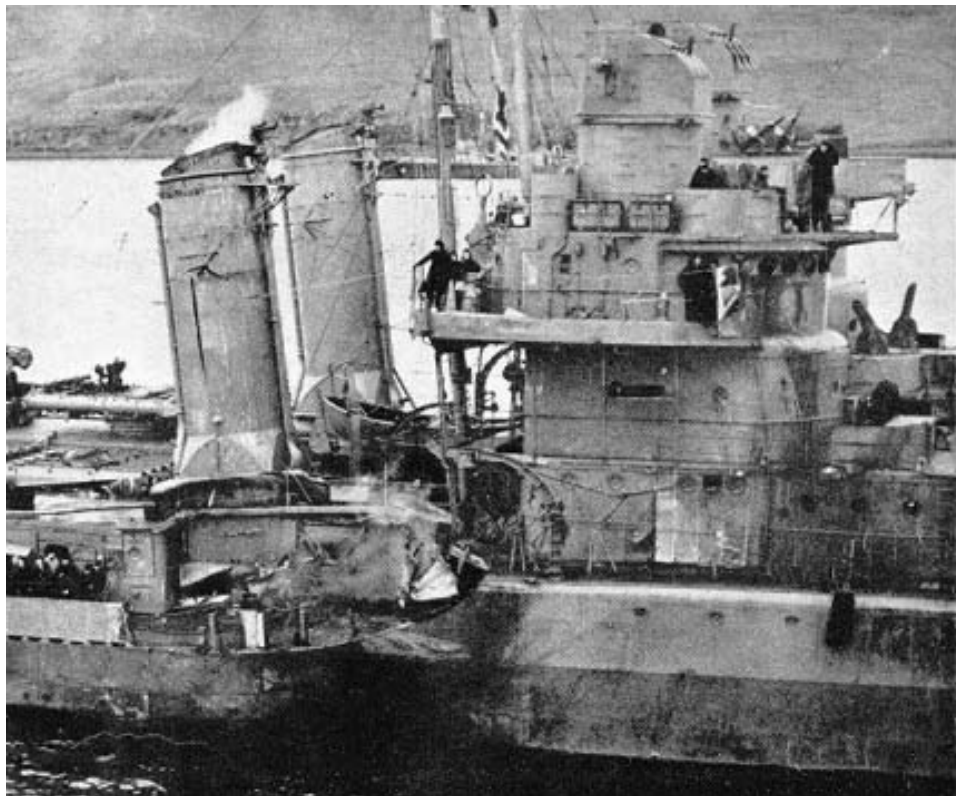


Figure 2. Close-up view of Kearney's damage from German G7a Torpedo

US Navy

Case Studies

These examples illustrate the effects of the new damage point equation. We did not include all of the test cases because of space limitations.

USS Cooper (DD 695)

USS *Cooper* was an *Allen M. Sumner* class destroyer that was torpedoed by a Japanese *Matsu* class destroyer (either *Take* or *Kuwa*) during an engagement in Ormoc Bay, Philippines, on the night of 3 December 1944. *Cooper* was struck with a

Type 93 Mod 3 torpedo, an updated "Long Lance" with a larger warhead.

Sumner class displacement: 2,610 tons
 Old damage point value: 96
 New damage point value: 162
 Type 93 Mod 3 damage: 111

Historically, *Cooper* took the Type 93 amidships, broke in two, and sank. In the analysis above, she takes approximately 69% of her total damage in one blow and is left with only 51 damage points remaining. This puts her on the 2.0 critical hit line, which means she will suffer between 11 and 16 critical hits, in addition to the automatic flooding critical. This will almost certainly result in the destroyer sinking from secondary damage. The issue of keel breaking is being reviewed and will be dealt with in a future *Naval SITREP* article.

USS Kearney (DD 432)

USS *Kearney* is a *Benson/Gleaves* class destroyer that was torpedoed by a German Type VIIC U-boat (*U 568*) in the North Atlantic on the night of 17 October 1941. The torpedo that hit *Kearney* was a standard G7a.

Benson/Gleaves class displacement:
 1,839 tons
 Old damage point value: 72
 New damage point value: 128
 G7a damage: 88



Figure 1. Torpedoed USS Kearney alongside USS Monssen, Oct 1941

US Navy



Figure 3. INS Eilat
www.israelmilitary.net/archivel/index.php/t-5635.html

USS *Kearney* was hit amidships, however, because the torpedo had difficulties maintaining depth, it hit the destroyer very near the surface (see Figures 1 and 2). The shallow hit allowed a lot of the blast energy to be vented into open air, instead of being tamped by several meters of water and directed toward the hull. With only one fireroom flooded, *Kearney* limped to Iceland for emergency repairs before setting sail for Boston in late December.

In analyzing this attack, the overall amount of damage is identical to the USS *Cooper* case at 69%. And historically, the vast majority of destroyers that took a torpedo hit amidships did sink. In this case, the shallow depth of the explosion significantly reduced the damage to the ship. Even though this type of weapon malfunction is not accommodated within the *Command at Sea* rules, the circumstances are similar to a bow hit on a small ship that halves the damage. Assuming only 44 points of damage from the torpedo hit, *Kearney* would be at 34% damage and could reasonably be expected to survive.

INS *Eilat*

The classic example of a ship killed by anti-ship missiles is the Israeli *Eilat*, a former Royal Navy Z class World War II destroyer (Figure 3). Late on the afternoon of 21 October 1967, *Eilat* was cruising off Port Said when two Egyptian Project 183R [Komar] class PTGs launched two P-15 [SS-N-2A] anti-ship cruise missiles (Figure 4). Both missiles hit, doing extensive damage to the ship.

Z class displacement: 1,730 tons
 Old damage point value: 69
 New damage point value: 123
 P-15 [SS-N-2A] damage: 48

Eilat suffered massive damage from the two missiles, taking 78% of her damage value in the attack. Even before any consideration is given to critical hits, and we're talking the 3.4 line on the Critical Hit Table, the ship was no longer seaworthy.

She sank slowly, taking 47 of her crewmen to their grave. While *Eilat* was actually struck by three P-15 [SS-N-2A] missiles, the third hit her stern as she was

going under. There was a gap of about two hours between the two salvos of two missiles. The fourth missile hit the water near where *Eilat* had been.

The analysis of this event was crucial to validating the new damage equation. In reviewing early Soviet claims of their anti-ship missile effectiveness, it was stated by the Russians that one to two P-15 [SS-N-2A Styx] missiles would be required to hit a destroyer in order to sink it. The model's output is consistent with the Soviet analysis.

USS *Buchanan* (DDG 14)

We've talked about the *Charles F Adams* class guided missile destroyer, USS *Buchanan*, before, in *Naval SITREP #20* (April 2001). She was used as a target ship for a sinking exercise, or "SINKEX," during RIMPAC 2000. During the exercise, the ship was hit by three Hellfire missiles, five Harpoon missiles (two were fitted with telemetry modules instead of warheads), and one 2,000 lb GBU-24 laser guided bomb.

Charles F Adams class displacement:
 3,570 tons
 Old damage point value: 105
 New damage point value: 169

Hellfire damage: 5
 Harpoon damage: 40
 GBU-24 damage: 58

In *Naval SITREP #20*, we pointed out that *Buchanan* took considerably more damage than what was listed in the *Harpoon*⁴ data annex. To make matters worse, the U.S. Navy had to plant explosive charges to finally get her to go down. It was suggested that the nature of the exercise had something to do with the results, but we couldn't come up with a good explanation for what happened. When we analyzed this event with the new damage equation, things started to make sense.

First off, although three warshot Harpoons were reported to have hit her, a little ditty on the *Buchanan* SINKEX web page (<http://www.uss-buchanan-ddg14.org/Sinkex/index.htm>) states that the third Harpoon *flew through the hole* made by the first two (Figure 5, page 16). Removing one Harpoon warshot (we didn't count the two missiles with telemetry modules) from the damage leaves *Buchanan* taking 153 damage points - about 91% of her rated value. The key point here is that the ship had an extremely small chance of staying afloat, but at least it had a chance. With the previous damage equation, even removing one warshot Harpoon, the ship should have had no chance of staying afloat.



Figure 4. Russian Project 183R [Komar] missile boat
www.militaryimages.net/forums/archivel/index.php/t-9250.html



Figure 5. Damage to USS Buchanan from two Harpoon missile hits

US Navy

Another SINKEX of a *Charles F. Adams* class DDG in 2002, USS *Towers* (DDG 9), gives a similar result. It was hit by an SM1 missile, a Hellfire, and one Harpoon, although the lack of a large hole in the photos of the ship's hull strongly suggest a missile with a telemetry module. Between the SM1 and the Hellfire, *Towers* would have taken 22 damage points. The following day, the ship was engaged by gunfire from USS *Sides* (FFG 14) and hit "at least twenty times with 76mm gun ammunition." If one takes the remaining damage capacity of 147 damage points and divides it by 7 damage points per 76mm shell, the result is 21 hits.

Conclusion

This change to the ship's damage point equation caps a long analysis, test, and then repeat cycle that was started in 2004. First, with modifications to weapons damage, then changes to the critical hit system, and finally the ship damage point value equation.

Our thanks go out to those players who provided insightful and constructive criticism. As Larry Bond is fond of saying, we all get a little smarter by playing and designing historical games. Now, the small boys will have a better chance of surviving enemy fire as they close to effective torpedo range. Players who prefer to run destroyers have universally applauded the change, players who prefer battleships, not so much. But that is as it is supposed to be.

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BT



USS Towers sinking

US Navy

Calculating a Ship's Damage Points (Extracted from Annex Z Conversion Factors and Scales)

A ship's damage points are based on its standard displacement (submerged displacement for subs).

Sometimes a ship's displacement is not provided as a standard displacement.

Multiply GRT by 0.75 to approximate standard displacement.

Multiply full load (fl) displacements by 0.85 to approximate standard displacement.

Multiply lightship (ltsHP) displacements by 1.13 to approximate standard displacement.

2006 Standard: $DP = 0.177 \times (\text{Displ})^{0.80}$

2012 Standard: $DP = 0.85 \times (\text{Displ})^{0.667}$

	<i>Code</i>
Merchant/civilian ships (minimal DC fittings, large interior spaces, few transverse bulkheads): -50%	Civ
Supertankers: -75%	SpTnk
Merchants converted to warships (involving reconstruction): -35%	MCnv
Warships built to mercantile standards (implying less watertight compartmentalization and lower shock criteria):	
laid down before 1990: -25%	MStd
laid down 1990 and after: -15%	MStd90
Materials other than steel used in a large part of the ship's construction:	
Titanium: +15%	Titan
GRP: -10%	GRP
Aluminum superstructure: -15%	ALS
Aluminum hull & superstructure: -25%	AAL
Wood: -35%	Wood
Submarines (less reserve bouyancy): -50%	Sub
Air Cushion Vehicles (ACV)/SES: -30%	ACV
Multihull (catamaran, trimaran, SWATH) -25%	MHull
National Modifier: -10%	Nat
Soviet Surface ships (1956 - 1989), Albania, Bulgaria, India (Soviet-pattern ships) People's Republic of China (In service 1993 or earlier), Romania, Yugoslavia	
Fleet Auxiliary (Do not include tugs) (large cargo holds): -25%	Aux
Amphibious ship (large cargo holds): -25%	Amphib
Minelayer (large cargo holds): -25%	ML
Laid down before 1925: -15% (Do not use for wooden ships)	1925
Laid down before 1895: -25% (Do not use for wooden ships)	1895

The maximum combined damage modifier is limited to -75%.

Special damage modifiers listed in the remarks have already been factored into the damage point value.

The damage point levels are computed at 25, 50, 75, 90, and 100 percent of total damage.

Trilogy Ship Size classes:

<u>Size Class</u>	<u>Signature</u>	<u>Displacement</u>
A	Large	18001+
B	Medium	5501 - 18000
C	Small	1501 - 5500
D	Small	351 - 1500
E	VSmall	86 - 350
F	VSmall	21 - 85
G	Stealthy	≤20

Fear God and Dread Nought 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Argentina	Catamarca	DD	995 std	D/Small	-0.15	18	36	54	65	72	1925
Argentina	Buenos Aires	CR	4788 std	C/Small	-0.15	52	103	155	185	206	1925
Argentina	Garibaldi First Group	CR	6773 std	B/Medium	-0.15	65	130	194	233	259	1925
Argentina	Garibaldi Second Group	CR	6773 std	B/Medium	-0.15	65	130	194	233	259	1925
Argentina	Independencia	BM	2330 std	C/Small	-0.25	28	56	84	101	112	1895
Argentina	La Plata	DD	875 std	D/Small	-0.15	17	33	50	59	66	1925
Argentina	Mendoza	DD	940 std	D/Small	-0.15	17	35	52	62	69	1925
Argentina	Nueve de Julio	CR	3600 std	C/Small	-0.25	38	75	113	135	150	1895
Argentina	Rivadavia	BB	27940 std	A/Large	-0.15	167	334	501	601	668	1925
Argentina	Rosario	PG	1055 fl	D/Small	-0.15	17	34	50	60	67	1925
Argentina	San Luis	DD	980 std	D/Small	-0.15	18	36	53	64	71	1925
Aust-Hun	Admiral Spaun	CS	3500 std	C/Small	-0.15	42	84	125	150	167	1925
Aust-Hun	Ersatz Tatra	DD	880 std	D/Small	-0.15	17	33	50	59	66	1925
Aust-Hun	Erzherzog Karl	BB	10600 std	B/Medium	-0.15	88	175	263	315	350	1925
Aust-Hun	Ex-German U 43	SS	292 subm	E/VSmall	-0.65	3	7	10	12	13	1925, Sub
Aust-Hun	German U 48	SS	1183 subm	D/Small	-0.65	8	17	25	30	33	1925, Sub
Aust-Hun	Habsburg	BB	8340 std	B/Medium	-0.15	75	149	224	268	298	1925
Aust-Hun	Huszar	DD	389 std	D/Small	-0.15	10	20	29	35	39	1925
Aust-Hun	Improved Tatra	DD	880 std	D/Small	-0.15	17	33	50	59	66	1925
Aust-Hun	Improved Tegetthoff	BB	24500 std	A/Large	-0.15	153	306	459	551	612	1925
Aust-Hun	Kaiser Karl IV	CR	6166 std	B/Medium	-0.15	61	122	183	220	244	1925
Aust-Hun	Kaiserin und Konigin Maria Theresia	CR	5330 std	C/Small	-0.25	49	98	146	176	195	1925
Aust-Hun	Kalman/Tb50	TB	210 std	E/VSmall	-0.15	--	--	--	--	26	1925
Aust-Hun	Modified Admiral Spaun	CS	3500 std	C/Small	-0.15	42	84	125	150	167	1925
Aust-Hun	Radetzky	BB	14508 std	B/Medium	-0.15	108	216	323	388	431	1925
Aust-Hun	Sankt Georg	CR	7289 std	B/Medium	-0.15	68	136	204	245	272	1925
Aust-Hun	Tatra	DD	850 std	D/Small	-0.15	16	33	49	59	65	1925
Aust-Hun	Tb I	TB	116 std	E/VSmall	-0.15	--	--	--	--	17	1925
Aust-Hun	Tb VII	TB	131 std	E/VSmall	-0.15	--	--	--	--	19	1925
Aust-Hun	Tb74 T	TB	262 std	E/VSmall	-0.15	--	--	--	--	30	1925
Aust-Hun	Tb82 F	TB	244 std	E/VSmall	-0.15	--	--	--	--	28	1925

Fear God and Dread Nought 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Aust-Hun	Tb98 M	TB	250 std	E/VSmall	-0.15	--	--	--	--	29	1925
Aust-Hun	Tegetthoff	BB	20013 std	A/Large	-0.15	134	267	401	481	534	1925
Aust-Hun	U 1	SS	249 subm	E/VSmall	-0.65	3	6	9	11	12	1925, Sub
Aust-Hun	U 3	SS	300 subm	E/VSmall	-0.65	3	7	10	12	13	1925, Sub
Aust-Hun	U 5	SS	273 subm	E/VSmall	-0.65	3	7	10	12	13	1925, Sub
Aust-Hun	U 7	SS	885 subm	D/Small	-0.65	7	14	20	24	27	1925, Sub
Aust-Hun	U 10	SS	140 subm	E/VSmall	-0.65	2	4	6	7.2	8	1925, Sub
Aust-Hun	U 14	SS	551 subm	D/Small	-0.65	5	10	15	18	20	1925, Sub
Aust-Hun	U 20	SS	210 subm	E/VSmall	-0.65	3	6	8	10	11	1925, Sub
Aust-Hun	U 27	SS	301 subm	E/VSmall	-0.65	3	7	10	12	13	1925, Sub
Aust-Hun	Warasdiner	DD	389 std	D/Small	-0.15	10	20	29	35	39	1925
Aust-Hun	Wien	BB	5600 std	B/Medium	-0.15	57	114	171	205	228	1925
Aust-Hun	Zenta	CL	2313 std	C/Small	-0.15	32	64	95	114	127	1925
Brazil	Bahia	CL	3100 std	C/Small	-0.15	39	77	116	139	154	1925
Brazil	Barrozo	CR	3437 std	C/Small	-0.15	41	83	124	149	165	1925
Brazil	Ceara	AS	6400 std	B/Medium	-0.65	26	52	77	93	103	1925, Aux, MHull
Brazil	Deodoro	BM	3162 std	C/Small	-0.15	39	78	117	140	156	1925
Brazil	Ex-GB Saint	ATO	600 std	D/Small	-0.15	13	26	39	47	52	1925
Brazil	F1 class	SS	305 subm	E/VSmall	-0.15	8	17	25	30	33	1925, Sub
Brazil	Minas Gerais	BB	19281 std	A/Large	-0.15	130	261	391	469	521	1925
Brazil	Para	DD	560 std	D/Small	-0.15	12	25	37	44	49	1925
Chile	Almirante Latorre	BB	28600 std	A/Large	-0.15	170	339	509	610	678	1925
Chile	Almirante Lynch	DD	1430 std	D/Small	-0.15	23	46	69	83	92	1925
Chile	Almirante Williams	DD	1704 std	C/Small	-0.15	26	52	77	93	103	1925
Chile	Blanco Encalada	CR	3435 std	C/Small	-0.25	37	73	110	131	146	1895
Chile	Fresia	SS	510 subm	D/Small	-0.15	12	23	35	41	46	1925
Chile	Ministro Zenteno	CR	3437 std	C/Small	-0.15	41	83	124	149	165	1925
Chile	O'Higgins	CR	7796 std	B/Medium	-0.15	71	143	214	257	285	1925
China	Chang class	TB	90 std	E/VSmall	-0.15	--	--	--	--	15	1925
China	Chang Feng	DD	390 std	D/Small	-0.15	10	20	29	35	39	1925
China	Chao Ho	CR	2750 std	C/Small	-0.15	36	71	107	128	142	1925

Fear God and Dread Nought 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
China	Chao Ho (Ying Swei)	CR	2500 std	C/Small	-0.15	33	67	100	120	133	1925
China	Chen class	TB	120 std	E/VSmall	-0.15	--	--	--	--	18	1925
China	Chiang Hsi	PR	140 std	E/VSmall	-0.15	--	--	--	--	20	1925
China	Chiang Yuan	PG	565 std	D/Small	-0.15	12	25	37	44	49	1925
China	Chien An (1925)	PG	861 std	D/Small	-0.25	15	29	44	52	58	1925, Nat
China	Chien Chung	PR	90 std	E/VSmall	-0.15	--	--	--	--	15	1925
China	Chu class	PG	752 std	D/Small	-0.15	15	30	45	54	60	1925
China	Fei Ying	DD	837 std	D/Small	-0.15	16	32	48	58	64	1925
China	Fu An	CR	1900 std	C/Small	-0.25	25	49	74	88	98	1925, Nat
China	Hai Chi	CR	4300 std	C/Small	-0.15	48	96	144	173	192	1925
China	Hai Fu	PR	166 std	E/VSmall	-0.15	--	--	--	--	22	1925
China	Hai Ho	PR	211 std	E/VSmall	-0.15	--	--	--	--	26	1925
China	Hai Hung	PR	190 std	E/VSmall	-0.15	--	--	--	--	24	1925
China	Hai Yen	PR	56 std	F/VSmall	-0.15	--	--	--	--	11	1925
China	Hai Yung	CR	2680 std	C/Small	-0.15	35	70	105	126	140	1925
China	Hu Peng	TB	96 std	E/VSmall	-0.15	--	--	--	--	15	1925
China	Tung Chi	CR	1900 std	C/Small	-0.25	25	49	74	88	98	1925, Nat
China	Wei Sheng	AV	932 std	D/Small	-0.40	12	25	37	44	49	1925
China	Yung Chien	PG	860 std	D/Small	-0.25	15	29	44	52	58	1925, Nat
China	Yung Hsiang	PG	780 std	D/Small	-0.15	15	31	46	55	61	1925
Cuba	Cuba	DE	2055 std	C/Small	-0.15	29	59	88	105	117	1925
Cuba	Diez De Octubre	PC	218 std	E/VSmall	-0.15	--	--	--	--	26	1925
Cuba	Habana	PC	80 std	F/VSmall	-0.35	--	--	--	--	10	Wood
Cuba	Patria	PG	1100 std	D/Small	-0.15	19	39	58	69	77	1925
Egypt	Abdul Monaym	PB	610 std	D/Small	-0.15	13	26	39	47	52	1925
Egypt	Ex-GB Anchusa	DE	1290 std	D/Small	-0.15	22	43	65	77	86	1925
Egypt	Ex-GB P-Boat	PC	613 std	D/Small	-0.15	13	26	39	47	52	1925
Egypt	Mahroussa	AG	4561 grt	C/Small	-0.75	12	24	36	43	48	1895, Civ
Estonia	Ex-German A26/A50	TB	227 std	E/VSmall	-0.15	--	--	--	--	27	1925
Estonia	Ex-Russian Novik	DD	1100 std	D/Small	-0.15	19	39	58	69	77	1925
France	37-metre	TB	90 std	E/VSmall	-0.15	--	--	--	--	15	1925

Fear God and Dread Nought 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
France	Aigrette	SS	253 subm	E/VSmall	-0.65	3	6	9	11	12	1925, Sub
France	Ailette	PG	492 std	D/Small	-0.15	11	23	34	41	45	1925
France	Amiens	PC	850 std	D/Small	-0.15	16	33	49	59	65	1925
France	Amiral Aube	CR	9500 std	B/Medium	-0.15	81	163	244	293	325	1925
France	Amiral Bourgeois	SS	735 subm	D/Small	-0.65	6	12	18	22	24	1925, Sub
France	Amiral Charner	CR	4700 std	C/Small	-0.25	45	90	134	161	179	1895
France	Amphitrite	SS	609 subm	D/Small	-0.65	5	11	16	19	21	1925, Sub
France	Arabe	DD	685 std	D/Small	-0.15	14	28	42	50	56	1925
France	Archimede	SS	810 subm	D/Small	-0.65	7	13	20	23	26	1925, Sub
France	Ardent	PG	310 std	E/VSmall	-0.15	--	--	--	--	33	1925
France	Armide	SS	670 subm	D/Small	-0.65	6	12	17	21	23	1925, Sub
France	Arquebuse	DD	318 std	E/VSmall	-0.15	--	--	--	--	34	1925
France	Bellone	SS	788 subm	D/Small	-0.65	6	13	19	23	25	1925, Sub
France	Bisson	DD	791 std	D/Small	-0.15	16	31	47	56	62	1925
France	Bouclier	DD	756 std	D/Small	-0.15	15	30	45	54	60	1925
France	Bouvet	BB	12205 std	B/Medium	-0.15	96	192	288	346	384	1925
France	Branlebas	DD	344 std	E/VSmall	-0.15	--	--	--	--	36	1925
France	Bretagne	BB	23230 std	A/Large	-0.15	148	295	443	531	590	1925
France	Brumaire	SS	551 subm	D/Small	-0.65	5	10	15	18	20	1925, Sub
France	C101	PC	150 fl	E/VSmall	-0.15	--	--	--	--	18	1925
France	Campinas	ACV	3319 std	C/Small	-0.50	24	48	71	86	95	1925, MCnv
France	Chasseur	DD	450 std	D/Small	-0.15	11	22	32	39	43	1925
France	Chateaufrenault	CR	8200 std	B/Medium	-0.15	74	148	221	266	295	1925
France	Chevalier	TB	120 std	E/VSmall	-0.25	--	--	--	--	16	1895
France	Circe	SS	491 subm	D/Small	-0.65	5	10	14	17	19	1925, Sub
France	Claymore	DD	356 std	D/Small	-0.15	9	18	27	32	36	1925
France	Clorinde	SS	567 subm	D/Small	-0.65	5	10	15	18	20	1925, Sub
France	Courbet	BB	23189 std	A/Large	-0.15	147	295	442	530	589	1925
France	Cyclone	TB	180 std	E/VSmall	-0.15	--	--	--	--	23	1925
France	D'Entrecasteaux	CR	8114 std	B/Medium	-0.15	73	147	220	264	293	1925
France	D'Estrees	CL	2450 std	C/Small	-0.15	33	66	99	119	132	1925

Fear God and Dread Nought 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
France	D'Iberville	DD	925 std	D/Small	-0.25	15	31	46	55	61	1895
France	Danton	BB	18318 std	A/Large	-0.15	126	252	378	454	504	1925
France	Descartes	CR	4000 std	C/Small	-0.25	40	81	121	145	161	1895
France	Diane	SS	891 subm	D/Small	-0.65	7	14	21	25	28	1925, Sub
France	Dubourdieu	PC	453 std	D/Small	-0.15	11	22	32	39	43	1925
France	Dunois	DD	890 std	D/Small	-0.15	17	34	50	60	67	1925
France	Dupuy De Lome	SS	1287 subm	D/Small	-0.65	9	18	26	32	35	1925, Sub
France	Durandal	DD	300 std	E/VSmall	-0.15	--	--	--	--	32	1925
France	Emeraude	SS	425 subm	D/Small	-0.65	4	9	13	15	17	1925, Sub
France	Enseigne Roux	DD	850 std	D/Small	-0.15	16	33	49	59	65	1925
France	Ernest Renean	CR	13644 std	B/Medium	-0.15	104	207	311	373	414	1925
France	Ex-Argentine Aventurier	DD	930 std	D/Small	-0.15	17	35	52	62	69	1925
France	Ex-Greek Aetos	TB	980 std	D/Small	-0.15	18	36	53	64	71	1925
France	Ex-Greek Doris	TB	120 std	E/VSmall	-0.15	--	--	--	--	18	1925
France	Ex-Greek Niki	TB	350 std	E/VSmall	-0.15	--	--	--	--	36	1925
France	Ex-Greek Thyella	TB	390 std	D/Small	-0.15	10	20	29	35	39	1925
France	Farfadet	SS	202 subm	E/VSmall	-0.65	3	5	8	9	10	1925, Sub
France	Flamant	PC	585 std	D/Small	-0.15	13	26	38	46	51	1925
France	Forban	TB	123 std	E/VSmall	-0.15	--	--	--	--	18	1925
France	Foudre	ACV	5971 std	B/Medium	-0.40	42	84	126	151	168	1925, Aux
France	Friant	CR	4000 std	C/Small	-0.25	40	81	121	145	161	1895
France	Friponne	PG	315 std	E/VSmall	-0.15	--	--	--	--	34	1925
France	GB Flower	PC	1470 std	D/Small	-0.15	24	47	71	85	94	1925
France	Granit	MS	360 std	D/Small	-0.40	7	13	20	23	26	1925, Amphib
France	Gueydon	CR	9500 std	B/Medium	-0.15	81	163	244	293	325	1925
France	Guichen	CR	8300 std	B/Medium	-0.15	74	149	223	267	297	1925
France	Gustave Zede	SS	1098 subm	D/Small	-0.65	8	16	24	29	32	1925, Sub
France	Henri IV	BB	8807 std	B/Medium	-0.15	77	155	232	278	309	1925
France	Herse	MS	255 std	E/VSmall	-0.40	--	--	--	--	21	1925, Amphib
France	Jacques Coeur	PC	700 std	D/Small	-0.15	14	29	43	51	57	1925
France	Jaureguiberry	BB	11818 std	B/Medium	-0.25	83	166	249	299	332	1925

Fear God and Dread Nought 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
France	Jeanne D'Arc	CR	11270 std	B/Medium	-0.15	91	182	273	328	364	1925
France	Joessel/Fulton	SS	1247 subm	D/Small	-0.65	9	18	26	32	35	1925, Sub
France	Jules Michelet	CR	12600 std	B/Medium	-0.15	98	196	294	353	392	1925
France	Jurien de la Graviere	CR	5700 std	B/Medium	-0.15	58	116	173	208	231	1925
France	Kleber	CR	7700 std	B/Medium	-0.15	71	142	212	255	283	1925
France	Lagrange	SS	1318 subm	D/Small	-0.65	9	18	27	32	36	1925, Sub
France	Lamotte Picquet	CS	4500 std	C/Small	-0.15	49	99	148	177	197	1925
France	Lavouisier	CL	23000 std	A/Large	-0.15	147	293	440	527	586	1925
France	Leon Gambetta	CR	12550 std	B/Medium	-0.15	98	196	293	352	391	1925
France	Luronne	PG	266 std	E/VSmall	-0.15	--	--	--	--	30	1925
France	Mariotte	SS	627 subm	D/Small	-0.65	6	11	17	20	22	1925, Sub
France	Marne	PG	566 std	D/Small	-0.15	13	25	38	45	50	1925
France	Morse	SS	160 subm	E/VSmall	-0.65	2.2	4.4	6.6	7.9	8.8	1925, Sub
France	Naiade	SS	74 subm	F/VSmall	-0.65	1.3	2.7	4	4.8	5.3	1925, Sub
France	Normandie	BB	25230 std	A/Large	-0.15	156	312	468	562	624	1925
France	Omega/Argonaute	SS	409 subm	D/Small	-0.65	4	8	12	14	16	1925, Sub
France	Pertuisane	DD	300 std	E/VSmall	-0.15	--	--	--	--	32	1925
France	Pique	DD	319 std	E/VSmall	-0.15	--	--	--	--	34	1925
France	Pluton	ML	566 std	D/Small	-0.40	9	18	26	32	35	1925, ML
France	Pluviose	SS	550 subm	D/Small	-0.65	5	10	15	18	20	1925, Sub
France	Pothuau	CR	5365 std	C/Small	-0.25	49	98	147	176	196	1895
France	Republique	BB	14865 std	B/Medium	-0.15	110	219	329	394	438	1925
France	Requin	BB	7214 std	B/Medium	-0.25	60	120	179	215	239	1895
France	Saint-Louis	BB	11108 std	B/Medium	-0.15	90	181	271	325	361	1925
France	Scarpe	PC	604 std	D/Small	-0.15	13	26	39	47	52	1925
France	Siréne	SS	213 subm	E/VSmall	-0.65	3	6	8	10	11	1925, Sub
France	Spahi	DD	550 std	D/Small	-0.15	12	25	37	44	49	1925
France	Suffren	BB	12750 std	B/Medium	-0.15	99	198	297	356	396	1925
France	Surcouf	CL	1850 std	C/Small	-0.15	27	55	82	98	109	1925
France	Valiante	PG	457 std	D/Small	-0.15	11	22	32	39	43	1925
France	Verite	BB	14900 std	B/Medium	-0.15	110	220	329	395	439	1925

Fear God and Dread Nought 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
France	Ville d'Ys	PC	1121 std	D/Small	-0.15	20	39	59	70	78	1925
France	Voltigeur	DD	450 std	D/Small	-0.15	11	22	32	39	43	1925
France	Waldeck Rousseau	CR	14000 fl	B/Medium	-0.15	95	189	284	340	378	1925
GB	24' Class	PC	1320 std	D/Small	-0.15	22	44	65	78	87	1925
GB	40 ft Coastal Motor Boat	PT	5 std	G/VSmall	-0.15	--	--	--	--	2.1	1925
GB	55 ft Coastal Motor Boat	PT	11 std	G/VSmall	-0.15	--	--	--	--	3.6	1925
GB	70 ft Coastal Motor Boat	PT	24 std	F/VSmall	-0.40	--	--	--	--	4.2	1925, ML
GB	A Class	SS	207 subm	E/VSmall	-0.65	3	5	8	9	10	1925, Sub
GB	Aberdare	MS	800 std	D/Small	-0.15	16	31	47	56	62	1925
GB	Acacia	MS	1200 std	D/Small	-0.15	21	41	62	74	82	1925
GB	Acasta (K Class)	DD	1072 std	D/Small	-0.15	19	38	57	68	76	1925
GB	Acorn/Acheron (H/I Class)	DD	772 std	D/Small	-0.15	15	31	46	55	61	1925
GB	Active	CS	3440 std	C/Small	-0.15	41	83	124	149	165	1925
GB	Agincourt	BB	27500 std	A/Large	-0.15	165	330	495	594	660	1925
GB	Amarapoora	AH	10000 grt	B/Medium	-0.65	29	57	86	103	114	1925, Civ
GB	Ambercrombie	BM	6150 std	B/Medium	-0.15	61	122	182	219	243	1925
GB	Anchusa	PC	1290 std	D/Small	-0.15	22	43	65	77	86	1925
GB	Anne	AVM	4083 grt	C/Small	-0.65	16	32	47	57	63	1925, Civ
GB	Apollo	CL	3400 std	C/Small	-0.25	36	73	109	131	145	1895
GB	Arabis	MS	1250 std	D/Small	-0.15	21	42	63	76	84	1925
GB	Arethusa	CL	3750 std	C/Small	-0.15	44	88	131	158	175	1925
GB	Argus	ACV	14550 std	B/Medium	-0.65	45	89	134	160	178	1925, Civ
GB	Ark Royal	ACV	7080 std	B/Medium	-0.40	47	95	142	170	189	1925, Aux
GB	Arno	DD	600 std	D/Small	-0.15	13	26	39	47	52	1925
GB	Arrogant	CL	5750 std	B/Medium	-0.15	58	117	175	210	233	1925
GB	Astrea	CL	4360 std	C/Small	-0.25	43	86	128	154	171	1895
GB	Aubretia	PC	1250 std	D/Small	-0.15	21	42	63	76	84	1925
GB	Azalea	MS	1210 std	D/Small	-0.15	21	41	62	74	82	1925
GB	B Class	SS	316 subm	E/VSmall	-0.65	4	7	11	13	14	1925, Sub
GB	Beagle (G Class)	DD	945 std	D/Small	-0.15	18	35	53	63	70	1925
GB	Bellerophon	BB	18800 std	A/Large	-0.15	128	257	385	462	513	1925

Fear God and Dread Nought 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
GB	Ben-My-Chree	AVM	3888 std	C/Small	-0.65	19	37	56	67	74	1925, Civ
GB	Birkenhead	CL	5235 std	C/Small	-0.15	55	109	164	196	218	1925
GB	Birmingham	CL	5440 std	C/Small	-0.15	56	112	168	202	224	1925
GB	Blonde	CS	3350 std	C/Small	-0.15	41	81	122	146	162	1925
GB	Boadicea	CS	3300 std	C/Small	-0.15	40	81	121	145	161	1925
GB	Bristol	CL	4800 std	C/Small	-0.15	52	103	155	185	206	1925
GB	C Class (DD)	DD	330 std	E/VSmall	-0.15	--	--	--	--	35	1925
GB	C Class (Sub)	SS	320 subm	E/VSmall	-0.65	4	7	11	13	14	1925, Sub
GB	Cadmus	PG	1070 std	D/Small	-0.15	19	38	57	68	76	1925
GB	Caledon	CL	4120 std	C/Small	-0.15	47	93	140	167	186	1925
GB	Calliope	CL	4228 std	C/Small	-0.15	47	95	142	170	189	1925
GB	Cambrian	CL	4320 std	C/Small	-0.15	48	96	144	173	192	1925
GB	Campania	AVM	12488 grt	B/Medium	-0.65	33	67	100	120	133	1925, Civ
GB	Canada	BB	28600 std	A/Large	-0.15	170	339	509	610	678	1925
GB	Canopus	BB	13150 std	B/Medium	-0.15	101	202	303	364	404	1925
GB	Capetown	CL	4290 std	C/Small	-0.15	48	96	143	172	191	1925
GB	Carmania	AMC	19524 grt	B/Medium	-0.65	45	90	134	161	179	1925, Civ
GB	Caroline	CL	4219 std	C/Small	-0.15	47	95	142	170	189	1925
GB	Centaur	CL	4165 std	C/Small	-0.15	47	94	141	169	188	1925
GB	Ceres	CL	4190 std	C/Small	-0.15	47	94	141	169	188	1925
GB	Challenger	CL	5880 std	B/Medium	-0.15	59	118	177	212	236	1925
GB	Chatham	CL	5400 std	C/Small	-0.15	56	112	167	201	223	1925
GB	Colossus	BB	20225 std	A/Large	-0.15	135	269	404	484	538	1925
GB	Courageous	BC	19230 std	A/Large	-0.15	130	260	390	468	520	1925
GB	Cressy	CR	12000 std	B/Medium	-0.15	95	190	285	342	380	1925
GB	Cricket	DD	255 std	E/VSmall	-0.15	--	--	--	--	29	1925
GB	D Class (DD)	DD	285 std	E/VSmall	-0.15	--	--	--	--	31	1925
GB	D Class (Sub)	SS	620 subm	D/Small	-0.65	6	11	17	20	22	1925, Sub
GB	Danae	CL	4970 std	C/Small	-0.15	53	106	158	190	211	1925
GB	Dance	MS	290 std	E/VSmall	-0.15	--	--	--	--	32	1925
GB	Devonshire	CR	10850 std	B/Medium	-0.15	89	178	266	320	355	1925

Fear God and Dread Nought 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
GB	Diadem	CR	11264 std	B/Medium	-0.15	91	182	272	327	363	1925
GB	Drake	CR	14150 std	B/Medium	-0.15	106	212	318	382	424	1925
GB	Dreadnought	BB	18110 std	A/Large	-0.15	125	250	375	450	500	1925
GB	Duke of Edinburgh	CR	13550 std	B/Medium	-0.15	103	206	309	371	412	1925
GB	Duncan	BB	13500 std	B/Medium	-0.15	103	206	308	370	411	1925
GB	E Class (E1 Group)	SS	796 subm	D/Small	-0.65	7	13	20	23	26	1925, Sub
GB	E Class (E9 Group)	SS	807 subm	D/Small	-0.65	7	13	20	23	26	1925, Sub
GB	Eclipse (1905)	CR	5600 std	B/Medium	-0.25	51	101	152	182	202	1895
GB	Edgar (7350)	CR	7350 std	B/Medium	-0.25	61	121	182	218	242	1895
GB	Edgar (7700)	CR	7350 std	B/Medium	-0.25	61	121	182	218	242	1895
GB	Empress	AVM	2540 std	C/Small	-0.65	14	28	42	50	56	1925, Civ
GB	Engadine	AVM	1881 std	C/Small	-0.65	11	23	34	41	45	1925, Civ
GB	Erebus	BM	8000 std	B/Medium	-0.15	73	145	218	261	290	1925
GB	Erin	BB	22780 std	A/Large	-0.15	146	292	437	525	583	1925
GB	F Class	SS	525 subm	D/Small	-0.65	5	10	14	17	19	1925, Sub
GB	Faulknor	DL	1610 std	C/Small	-0.15	25	50	74	89	99	1925
GB	Fly	PG	98 std	E/VSmall	-0.15	--	--	--	--	15	1925
GB	Fornidable/London/Queen	BB	15000 std	B/Medium	-0.15	110	221	331	397	441	1925
GB	Forward	CS	2860 std	C/Small	-0.15	37	73	110	131	146	1925
GB	Furious	ACV	19513 std	A/Large	-0.15	131	263	394	473	525	1925
GB	Furious (original design)	BC	19513 std	A/Large	-0.15	131	263	394	473	525	1925
GB	G Class	SS	837 subm	D/Small	-0.65	7	13	20	23	26	1925, Sub
GB	G3	BC	48400 std	A/Large	-0.15	241	482	722	867	963	1925
GB	Gem	CS	3000 std	C/Small	-0.15	38	76	113	136	151	1925
GB	Gorgon	BM	5700 std	B/Medium	-0.15	58	116	173	208	231	1925
GB	H Class	SS	434 subm	D/Small	-0.65	4	9	13	15	17	1925, Sub
GB	Highflyer (1905)	CR	5600 std	B/Medium	-0.15	57	114	171	205	228	1925
GB	Hood	BC	42670 std	A/Large	-0.15	221	443	664	797	885	1925
GB	Humber	BM	1260 std	D/Small	-0.15	21	42	63	76	84	1925
GB	Hunt	MS	750 std	D/Small	-0.15	15	30	45	54	60	1925
GB	Improved H Class	SS	540 subm	D/Small	-0.65	5	10	15	18	20	1925, Sub

Fear God and Dread Nought 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
GB	Indefatigable	BC	18500 std	A/Large	-0.15	127	254	380	456	507	1925
GB	Insect	PG	645 std	D/Small	-0.15	14	27	41	49	54	1925
GB	Invincible	BC	17373 std	B/Medium	-0.15	122	243	365	437	486	1925
GB	Iron Duke	BB	25000 std	A/Large	-0.15	155	310	465	558	620	1925
GB	J Class	SS	1820 subm	C/Small	-0.65	11	22	33	40	44	1925, Sub
GB	K Class	SS	2566 subm	C/Small	-0.65	14	28	42	50	56	1925, Sub
GB	KIL Class	PG	895 std	D/Small	-0.15	17	34	50	60	67	1925
GB	King Edward VII	BB	15700 std	B/Medium	-0.15	114	227	341	409	454	1925
GB	King George V	BB	23000 std	A/Large	-0.15	147	293	440	527	586	1925
GB	L Class	SS	1074 subm	D/Small	-0.65	8	16	23	28	31	1925, Sub
GB	L9 Class	SS	1080 subm	D/Small	-0.65	8	16	23	28	31	1925, Sub
GB	L50 Class	SS	1150 subm	D/Small	-0.65	8	17	25	30	33	1925, Sub
GB	Laforey (L Class)	DD	1010 std	D/Small	-0.15	18	37	55	66	73	1925
GB	Lightfoot	DL	1440 std	D/Small	-0.15	23	46	69	83	92	1925
GB	Lion	BC	26270 std	A/Large	-0.15	160	321	481	577	641	1925
GB	Lord Clive	BM	6150 std	B/Medium	-0.15	61	122	182	219	243	1925
GB	Lord Nelson	BB	16000 std	B/Medium	-0.15	115	230	345	414	460	1925
GB	M Class (DD)	DD	900 std	D/Small	-0.15	17	34	51	61	68	1925
GB	M Class (Sub)	SSM	1946 subm	C/Small	-0.65	12	23	35	41	46	1925, Sub
GB	M29	BM	355 std	D/Small	-0.15	9	18	27	32	36	1925
GB	Majestic	BB	14635 std	B/Medium	-0.25	96	192	287	345	383	1895
GB	Manxman	AVM	2048 grt	C/Small	-0.65	10	20	30	36	40	1925, Civ
GB	Marshal Soult	BM	6670 std	B/Medium	-0.15	64	129	193	231	257	1925
GB	Medea	DD	1040 std	D/Small	-0.15	19	37	56	67	74	1925
GB	Mersey Ferry	AP	475 grt	D/Small	-0.65	4	8	11	14	15	1925, Civ
GB	Minotaur	CR	14600 std	B/Medium	-0.15	108	217	325	390	433	1925
GB	Modified R Class	DD	975 std	D/Small	-0.15	18	36	53	64	71	1925
GB	Modified W Class	DD	1325 std	D/Small	-0.15	22	44	65	78	87	1925
GB	Monmouth	CR	9800 std	B/Medium	-0.15	83	166	249	299	332	1925
GB	N3	BB	48500 std	A/Large	-0.15	241	482	723	868	964	1925
GB	Nairana	AVM	3070 std	C/Small	-0.65	16	32	47	57	63	1925, Civ

Fear God and Dread Nought 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
GB	Nautilus	SS	2026 subm	C/Small	-0.65	12	24	36	43	48	1925, Sub
GB	Neptune	BB	19680 std	A/Large	-0.15	132	264	396	475	528	1925
GB	Orion	BB	22200 std	A/Large	-0.15	143	287	430	516	573	1925
GB	Otranto	AMC	12124 grt	B/Medium	-0.65	33	65	98	117	130	1925, Civ
GB	Oxfordshire	AH	10500 grt	B/Medium	-0.65	30	59	89	106	118	1925, Civ
GB	P-Boat	PC	613 std	D/Small	-0.15	13	26	39	47	52	1925
GB	Pathfinder	CS	2900 std	C/Small	-0.15	37	74	110	132	147	1925
GB	PC-Boat	PC	694 std	D/Small	-0.15	14	29	43	51	57	1925
GB	Pegasus	AVM	2450 grt	C/Small	-0.65	11	23	34	41	45	1925, Civ
GB	Queen Elizabeth	BB	29100 std	A/Large	-0.15	172	343	515	617	686	1925
GB	Queen Elizabeth (Bulged)	BB	31000 std	A/Large	-0.15	179	358	536	644	715	1925
GB	Queen Mary	BC	26770 std	A/Large	-0.15	162	325	487	584	649	1925
GB	R Class (DD)	DD	975 std	D/Small	-0.15	18	36	53	64	71	1925
GB	R Class (Sub)	SS	503 subm	D/Small	-0.65	5	10	14	17	19	1925, Sub
GB	Raven II	AVM	4678 grt	C/Small	-0.65	17	35	52	62	69	1925, Civ
GB	Renown	BC	27650 std	A/Large	-0.15	166	332	497	597	663	1925
GB	Repeat M Class	DD	1025 std	D/Small	-0.15	19	37	56	67	74	1925
GB	Repeat River (E Class)	DD	550 std	D/Small	-0.15	12	25	37	44	49	1925
GB	River (E Class)	DD	566 std	D/Small	-0.15	13	25	38	45	50	1925
GB	Riviera	AVM	2500 std	C/Small	-0.65	14	28	41	50	55	1925, Civ
GB	Rollicker	ATO	1400 std	D/Small	-0.50	13	27	40	48	53	1925
GB	Royal Sovereign	BB	28000 std	A/Large	-0.15	167	334	501	601	668	1925
GB	Royal Sovereign (Ramilles)	BB	30300 std	A/Large	-0.15	176	353	529	635	705	1925
GB	Royal Sovereign (Bulged)	BB	29500 std	A/Large	-0.15	173	346	519	623	692	1925
GB	S Class (DD)	DD	905 std	D/Small	-0.15	17	34	51	61	68	1925
GB	S Class (Sub)	SS	324 subm	E/VSmall	-0.65	4	7	11	13	14	1925, Sub
GB	Saint class	ATO	600 std	D/Small	-0.15	13	26	39	47	52	1925
GB	Scott	DL	1580 std	C/Small	-0.15	25	49	74	88	98	1925
GB	Sentinel	CS	2880 std	C/Small	-0.15	37	74	110	132	147	1925
GB	Shakespeare	DL	1554 std	C/Small	-0.15	24	49	73	87	97	1925
GB	St. Vincent	BB	19560 std	A/Large	-0.15	132	263	395	473	526	1925

Fear God and Dread Nought 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
GB	Swift	DL	2170 std	C/Small	-0.15	30	61	91	109	121	1925
GB	Swordfish	SS	1105 subm	D/Small	-0.65	8	16	24	29	32	1925, Sub
GB	Talisman	DD	1098 std	D/Small	-0.15	19	39	58	69	77	1925
GB	Tiger	BC	28430 std	A/Large	-0.15	169	338	506	608	675	1925
GB	Tribal (F class)	DD	855 std	D/Small	-0.15	16	33	49	59	65	1925
GB	Tribal (F class) Zubian	DD	1050 std	D/Small	-0.15	19	38	56	68	75	1925
GB	Triumph	BB	12175 std	B/Medium	-0.15	96	192	288	346	384	1925
GB	V Class (DD)	DD	1100 std	D/Small	-0.15	19	39	58	69	77	1925
GB	V Class (DL)	DL	1188 std	D/Small	-0.15	20	41	61	73	81	1925
GB	V Class (Sub)	SS	457 subm	D/Small	-0.65	5	9	14	16	18	1925, Sub
GB	Vindex	AVM	2950 grt	C/Small	-0.65	13	26	38	46	51	1925, Civ
GB	Vindictive	ACV	9996 std	B/Medium	-0.15	84	168	252	302	336	1925
GB	W Class (DD)	DD	1100 std	D/Small	-0.15	19	39	58	69	77	1925
GB	W Class (Sub)	SS	499 subm	D/Small	-0.65	5	10	14	17	19	1925, Sub
GB	Warrior	CR	13550 std	B/Medium	-0.15	103	206	309	371	412	1925
GB	Weymouth	CL	5250 std	C/Small	-0.15	55	110	164	197	219	1925
Generic	Collier	Merch	3000 grt	C/Small	-0.65	13	26	38	46	51	1925, Civ
Generic	Steamer (1400 t)	Merch	1400 grt	D/Small	-0.65	8	16	23	28	31	1925, Civ
Generic	Steamer (2500 t)	Merch	2500 grt	C/Small	-0.65	11	23	34	41	45	1925, Civ
Germany	A 1	TB	109 std	E/VSmall	-0.15	--	--	--	--	17	1925
Germany	A 26/A 50	TB	227 std	E/VSmall	-0.15	--	--	--	--	27	1925
Germany	A 56	TB	335 std	E/VSmall	-0.15	--	--	--	--	35	1925
Germany	B 97	DD	1374 std	D/Small	-0.15	23	45	68	81	90	1925
Germany	B 109	DD	1374 std	D/Small	-0.15	23	45	68	81	90	1925
Germany	Bayern	BB	28047 std	A/Large	-0.15	167	335	502	602	669	1925
Germany	Berlin	AML	17324 grt	B/Medium	-0.65	41	83	124	149	165	1925, Civ
Germany	Blucher	CR	15590 std	B/Medium	-0.15	113	226	339	407	452	1925
Germany	Braunschweig	BB	13200 std	B/Medium	-0.15	101	203	304	365	405	1925
Germany	Bremen	CL	3250 std	C/Small	-0.15	40	80	119	143	159	1925
Germany	Brummer	CL	4385 std	C/Small	-0.15	49	97	146	175	194	1925
Germany	Bussard	CL	1838 std	C/Small	-0.25	24	48	72	86	96	1895

Fear God and Dread Nought 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Germany	Cap Trafalgar	AMC	18710 grt	B/Medium	-0.65	44	87	131	157	174	1925, Civ
Germany	Cöln	CL	5620 std	B/Medium	-0.15	57	115	172	206	229	1925
Germany	Cormoran	AMC	3433 grt	C/Small	-0.65	14	28	42	50	56	1925, Civ
Germany	Cyclop	ARM	4010 std	C/Small	-0.40	32	65	97	116	129	1925, Aux
Germany	D7 (1893)	TB	320 std	E/VSmall	-0.25	--	--	--	--	30	1895
Germany	Derfflinger	BC	26180 std	A/Large	-0.15	160	320	479	575	639	1925
Germany	Deutschland (i)	BB	13200 std	B/Medium	-0.15	101	203	304	365	405	1925
Germany	Deutschland (ii)	AML	2882 grt	C/Small	-0.65	13	25	38	45	50	1925, Civ
Germany	Dresden	CL	3664 std	C/Small	-0.15	43	86	129	155	172	1925
Germany	Ersatz Yorck	BC	33000 std	A/Large	-0.15	187	373	560	671	746	1925
Germany	F Class	MSC	18 std	G/VSmall	-0.35	--	--	--	--	3.8	Wood
Germany	F.S. I Answald	AVM	0 grt	B/Medium	-0.65	42	84	125	150	167	1925, Civ
Germany	F.S. II Santa Elena	AVM	0 grt	B/Medium	-0.65	43	87	130	156	173	1925, Civ
Germany	F.S. III Oswald	AVM	13900 std	B/Medium	-0.65	29	58	87	104	116	1925, Civ
Germany	FM Class	MSC	170 std	E/VSmall	-0.15	--	--	--	--	22	1925
Germany	G 7	DD	573 std	D/Small	-0.15	13	25	38	45	50	1925
Germany	G 37 (822 t)	DD	822 std	D/Small	-0.15	16	32	48	58	64	1925
Germany	G 37 (960 t)	DD	960 std	D/Small	-0.15	18	35	53	63	70	1925
Germany	G 85	DD	960 std	D/Small	-0.15	18	35	53	63	70	1925
Germany	G 96	DD	990 std	D/Small	-0.15	18	36	54	65	72	1925
Germany	G 101	DD	1116 std	D/Small	-0.15	20	39	59	70	78	1925
Germany	G 108	DD	330 std	E/VSmall	-0.15	--	--	--	--	35	1925
Germany	G 132	DD	414 std	D/Small	-0.15	10	20	30	36	40	1925
Germany	G 137	DD	580 std	D/Small	-0.15	13	25	38	45	50	1925
Germany	G 148	DD	1020 std	D/Small	-0.15	18	37	55	66	73	1925
Germany	G 169	DD	670 std	D/Small	-0.15	14	28	41	50	55	1925
Germany	G 173	DD	700 std	D/Small	-0.15	14	29	43	51	57	1925
Germany	G 174	DD	700 std	D/Small	-0.15	14	29	43	51	57	1925
Germany	G 192	DD	660 std	D/Small	-0.15	14	28	41	50	55	1925
Germany	Gazelle	CL	3033 std	C/Small	-0.15	38	76	114	137	152	1925
Germany	GK 3021	BC	29526 std	A/Large	-0.15	173	347	520	624	693	1925

Fear God and Dread Nought 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Germany	GK 3022	BC	29526 std	A/Large	-0.15	173	347	520	624	693	1925
Germany	GK 3521	BC	34447 std	A/Large	-0.15	192	384	576	691	768	1925
Germany	GK 4021	BC	39368 std	A/Large	-0.15	210	420	629	755	839	1925
Germany	GK 4521	BC	44289 std	A/Large	-0.15	227	454	681	817	908	1925
Germany	Graudenz	CL	4912 std	C/Small	-0.15	52	105	157	188	209	1925
Germany	Greif	AMC	4962 grt	C/Small	-0.65	18	36	54	65	72	1925, Civ
Germany	Glyndwr	AVM	6000 std	B/Medium	-0.65	25	50	74	89	99	1925, Civ
Germany	H = Hermann	AMC	2030 std	C/Small	-0.65	12	24	36	43	48	1925, Civ
Germany	H 145	DD	990 std	D/Small	-0.15	18	36	54	65	72	1925
Germany	Hela (1906)	CL	2027 std	C/Small	-0.15	29	58	87	104	116	1895
Germany	Helgoland	BB	22440 std	A/Large	-0.15	144	289	433	519	577	1925
Germany	Hindenburg	BC	26513 std	A/Large	-0.15	161	323	484	581	645	1925
Germany	Hohenzollern	PY	4180 std	C/Small	-0.75	14	28	41	50	55	1895, Civ
Germany	Iltis	PG	2497 std	C/Small	-0.15	33	67	100	120	133	1925
Germany	Kaiser	BB	24330 std	A/Large	-0.15	152	305	457	548	609	1925
Germany	Kaiser Wilhelm der Grosse	AMS	14349 grt	B/Medium	-0.65	36	73	109	131	145	1925, Civ
Germany	Kaiser Friedrich III	BB	10790 std	B/Medium	-0.15	89	177	266	319	354	1925
Germany	Karlsruhe	CL	4900 std	C/Small	-0.15	52	105	157	188	209	1925
Germany	Kolberg	CL	4362 std	C/Small	-0.15	48	97	145	174	193	1925
Germany	König	BB	25390 std	A/Large	-0.15	157	313	470	563	626	1925
Germany	Königin Louise	AML	2163 grt	C/Small	-0.65	10	21	31	37	41	1925, Civ
Germany	Königsberg (i) (Königsberg)	CL	3400 std	C/Small	-0.15	41	82	123	148	164	1925
Germany	Königsberg (i) (Nürnberg, Stuttgart,										
Germany	Stettin)	CL	3470 std	C/Small	-0.15	42	83	125	149	166	1925
Germany	Königsberg (ii)	CL	5440 std	C/Small	-0.15	56	112	168	202	224	1925
Germany	Kronprinz Wilhelm	AMC	14908 grt	B/Medium	-0.65	37	75	112	134	149	1925, Civ
Germany	L 20	BB	43800 std	A/Large	-0.15	225	451	676	811	901	1925
Germany	LM class	PT	8 std	G/VSmall	-0.15	--	--	--	--	2.9	1925
Germany	M 1	MS	425 std	D/Small	-0.15	10	21	31	37	41	1925
Germany	M 27	MS	480 std	D/Small	-0.15	11	22	33	40	44	1925
Germany	M 67	MS	500 std	D/Small	-0.15	12	23	35	41	46	1925

Fear God and Dread Nought 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Germany	Mackensen	BC	30500 std	A/Large	-0.15	177	354	531	637	708	1925
Germany	Magdeburg	CL	4570 std	C/Small	-0.15	50	100	150	180	200	1925
Germany	Meteor	AML	1912 grt	D/Small	-0.65	10	19	29	34	38	1925, Civ
Germany	Moltke	BC	22616 std	A/Large	-0.15	145	290	435	522	580	1925
Germany	Möwe	AMC	4788 grt	C/Small	-0.65	18	35	53	63	70	1925, Civ
Germany	Nassau (Nassau)	BB	18570 std	A/Large	-0.25	112	225	337	404	449	1925, Special -10%
Germany	Nassau (last 3)	BB	18750 std	A/Large	-0.15	128	256	384	461	512	1925
Germany	Nautilus (Nautilus)	CM	1975 std	C/Small	-0.40	20	40	60	72	80	1925, ML
Germany	Nautilus (Albatross)	CM	2200 std	C/Small	-0.40	22	43	65	77	86	1925, ML
Germany	Panther	PG	1193 std	D/Small	-0.15	20	41	61	73	81	1925
Germany	Pelikan	CM	2364 std	C/Small	-0.50	19	38	57	68	76	1895, ML
Germany	Pillau	CL	4912 std	C/Small	-0.15	52	105	157	188	209	1925
Germany	Prinz Adalbert	CR	9050 std	B/Medium	-0.15	79	158	236	284	315	1925
Germany	Prinz Heinrich	CR	8900 std	B/Medium	-0.15	78	156	233	280	311	1925
Germany	Prinze Eitel Friedrich	AMC	8797 grt	B/Medium	-0.65	26	53	79	95	105	1925, Civ
Germany	Project 1906 'c' (Nassau)	BB	15800 std	B/Medium	-0.15	114	228	342	410	456	1925
Germany	Project 1908 '16' (Helgoland)	BB	21800 std	A/Large	-0.15	142	283	425	509	566	1925
Germany	Project 1909 '1c' (Kaiser)	BB	24600 std	A/Large	-0.15	153	307	460	552	613	1925
Germany	Project 1910 'Ersatz Odin'	BB	24900 std	A/Large	-0.15	155	309	464	556	618	1925
Germany	Project 1912 '32cm' (Konig)	BB	25400 std	A/Large	-0.15	157	313	470	563	626	1925
Germany	Project E 19 (Blucher)	CR	15800 std	B/Medium	-0.15	114	228	342	410	456	1925
Germany	Project F5/5a (Von der Tann)	BC	19600 std	A/Large	-0.15	132	264	395	474	527	1925
Germany	Project J IIIc (Seydlitz)	BC	24100 std	A/Large	-0.15	151	303	454	545	605	1925
Germany	Roon	CR	9350 std	B/Medium	-0.15	81	161	242	290	322	1925
Germany	S 13	DD	558 std	D/Small	-0.15	12	25	37	44	49	1925
Germany	S 31	DD	802 std	D/Small	-0.15	16	32	47	57	63	1925
Germany	S 49	DD	802 std	D/Small	-0.15	16	32	47	57	63	1925
Germany	S 49 (S 53 - S 66)	DD	919 std	D/Small	-0.15	17	34	51	61	68	1925
Germany	S 66	TB	150 std	E/VSmall	-0.25	--	--	--	--	18	1895
Germany	S 82	TB	150 std	E/VSmall	-0.15	--	--	--	--	20	1925
Germany	S 90	DD	310 std	E/VSmall	-0.15	--	--	--	--	33	1925

Fear God and Dread Nought 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Germany	S 113/V 116	DD	2060 std	C/Small	-0.15	29	59	88	105	117	1925
Germany	S 114	DD	315 std	E/VSmall	-0.15	--	--	--	--	34	1925
Germany	S 120	DD	391 std	D/Small	-0.15	10	20	29	35	39	1925
Germany	S 125	DD	355 std	D/Small	-0.15	9	18	27	32	36	1925
Germany	S 126	DD	670 std	D/Small	-0.15	14	28	41	50	55	1925
Germany	S 131	DD	919 std	D/Small	-0.15	17	34	51	61	68	1925
Germany	S 138	DD	533 std	D/Small	-0.15	12	24	36	43	48	1925
Germany	S 165	DD	665 std	D/Small	-0.15	14	28	41	50	55	1925
Germany	S 176	DD	666 std	D/Small	-0.15	14	28	41	50	55	1925
Germany	Sachsen	BB	28345 std	A/Large	-0.15	169	337	506	607	674	1925
Germany	Scharnhorst	CR	11600 std	B/Medium	-0.15	93	186	278	334	371	1925
Germany	Seydlitz	BC	24594 std	A/Large	-0.15	153	307	460	552	613	1925
Germany	Siegfried	BB	4058 std	C/Small	-0.25	41	82	122	147	163	1895
Germany	Tiger	PG	1665 std	C/Small	-0.15	26	51	77	92	102	1925
Germany	U 1	SS	283 subm	E/VSmall	-0.65	3	7	10	12	13	1925, Sub
Germany	U 2	SS	341 subm	E/VSmall	-0.65	4	8	11	14	15	1925, Sub
Germany	U 3	SS	510 subm	D/Small	-0.65	5	10	14	17	19	1925, Sub
Germany	U 5	SS	636 subm	D/Small	-0.65	6	11	17	20	22	1925, Sub
Germany	U 9	SS	611 subm	D/Small	-0.65	5	11	16	19	21	1925, Sub
Germany	U 13	SS	644 subm	D/Small	-0.65	6	11	17	20	22	1925, Sub
Germany	U 16	SS	627 subm	D/Small	-0.65	6	11	17	20	22	1925, Sub
Germany	U 17	SS	691 subm	D/Small	-0.65	6	12	17	21	23	1925, Sub
Germany	U 19	SS	650 subm	D/Small	-0.65	6	11	17	20	22	1925, Sub
Germany	U 23	SS	669 subm	D/Small	-0.65	6	12	17	21	23	1925, Sub
Germany	U 27	SS	867 subm	D/Small	-0.65	7	14	20	24	27	1925, Sub
Germany	U 31	SS	878 subm	D/Small	-0.65	7	14	20	24	27	1925, Sub
Germany	U 43	SS	940 subm	D/Small	-0.65	7	15	22	26	29	1925, Sub
Germany	U 51	SS	902 subm	D/Small	-0.65	7	14	21	25	28	1925, Sub
Germany	U 57	SS	954 subm	D/Small	-0.65	7	15	22	26	29	1925, Sub
Germany	U 63	SS	927 subm	D/Small	-0.65	7	14	21	25	28	1925, Sub
Germany	U 66	SS	933 subm	D/Small	-0.65	7	14	21	25	28	1925, Sub

Fear God and Dread Nought 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Germany	U 71	SS	832 subm	D/Small	-0.65	7	13	20	23	26	1925, Sub
Germany	U 81	SS	946 subm	D/Small	-0.65	7	15	22	26	29	1925, Sub
Germany	U 87	SS	998 subm	D/Small	-0.65	8	15	23	27	30	1925, Sub
Germany	U 93	SS	1000 subm	D/Small	-0.65	8	15	23	27	30	1925, Sub
Germany	U 115	SS	1233 subm	D/Small	-0.65	9	17	26	31	34	1925, Sub
Germany	U 117	SSML	1512 subm	C/Small	-0.65	10	20	29	35	39	1925, Sub
Germany	U 127	SS	1649 subm	C/Small	-0.65	11	21	32	38	42	1925, Sub
Germany	U 139	SS	2483 subm	C/Small	-0.65	14	28	41	50	55	1925, Sub
Germany	U 142	SS	2791 subm	C/Small	-0.65	15	30	44	53	59	1925, Sub
Germany	U 151	SS	1875 subm	C/Small	-0.65	11	23	34	41	45	1925, Sub
Germany	U 158	SS	1034 subm	D/Small	-0.65	8	15	23	27	30	1925, Sub
Germany	UB 1	SS	142 subm	E/VSmall	-0.65	2	4.1	6.1	7.3	8.1	1925, Sub
Germany	UB 18	SS	292 subm	E/VSmall	-0.65	3	7	10	12	13	1925, Sub
Germany	UB 48	SS	651 subm	D/Small	-0.65	6	11	17	20	22	1925, Sub
Germany	UC 1	SSCML	183 subm	E/VSmall	-0.65	2.4	4.8	7.2	8.6	9.6	1925, Sub
Germany	UC 16	SSCML	511 subm	D/Small	-0.65	5	10	14	17	19	1925, Sub
Germany	UC 80	SSCML	571 subm	D/Small	-0.65	5	11	16	19	21	1925, Sub
Germany	UZ	PC	42 std	F/VSmall	-0.15	--	--	--	--	8.7	1925
Germany	V 1	DD	569 std	D/Small	-0.15	13	25	38	45	50	1925
Germany	V 25	DD	812 std	D/Small	-0.15	16	32	47	57	63	1925
Germany	V 43 (852 t)	DD	852 std	D/Small	-0.15	16	33	49	59	65	1925
Germany	V 43 (924 t)	DD	852 std	D/Small	-0.15	17	35	52	62	69	1925
Germany	V 67	DD	924 std	D/Small	-0.15	17	35	52	62	69	1925
Germany	V 99	DD	1350 std	D/Small	-0.15	22	44	66	79	88	1925
Germany	V 105	DD	340 std	E/VSmall	-0.15	--	--	--	--	35	1925
Germany	V 125	DD	924 std	D/Small	-0.15	17	35	52	62	69	1925
Germany	V 150	DD	558 std	D/Small	-0.15	12	25	37	44	49	1925
Germany	V 161	DD	596 std	D/Small	-0.15	13	26	38	46	51	1925
Germany	V 162	DD	639 std	D/Small	-0.15	14	27	41	49	54	1925
Germany	V 180	DD	650 std	D/Small	-0.15	14	27	41	49	54	1925
Germany	Victoria Louise	CR	6389 std	B/Medium	-0.15	62	125	187	224	249	1925

Fear God and Dread Nought 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Germany	Vineta	AMC	20576 grt	B/Medium	-0.65	46	93	139	167	185	1925, Civ
Germany	Von der Tann	BC	19400 std	A/Large	-0.15	131	262	392	471	523	1925
Germany	Vulcan	ARS	2595 std	C/Small	-0.40	24	49	73	87	97	1925, Aux
Germany	Wiesbaden	CL	5180 std	C/Small	-0.15	54	109	163	195	217	1925
Germany	Wittelsbach	BB	11800 std	B/Medium	-0.15	94	188	282	338	376	1925
Germany	Wolf (i)	AMC	6648 grt	C/Small	-0.65	22	44	65	78	87	1925, Civ
Germany	Wolf (ii)	AMC	5809 grt	C/Small	-0.65	20	40	60	72	80	1925, Civ
Germany	Wörth	BB	10600 std	B/Medium	-0.25	77	155	232	278	309	1895
Germany	Zieten	PG	1001 std	D/Small	-0.75	5	11	16	19	21	1895, Civ
Greece	Aetos	DD	980 std	D/Small	-0.15	18	36	53	64	71	1925
Greece	Aspis	DD	350 std	E/VSmall	-0.15	--	--	--	--	36	1925
Greece	Delphin	SS	460 subm	D/Small	-0.15	11	22	32	39	43	1925, Sub
Greece	Ex-German V1	DD	569 std	D/Small	-0.15	13	25	38	45	50	1925
Greece	Georgios Averoff	CR	10100 std	B/Medium	-0.15	85	170	254	305	339	1925
Greece	Helle (1928)	CM	2115 std	C/Small	-0.40	21	42	63	76	84	1925, ML
Greece	Spetsai (1900)	BB	4808 std	C/Small	-0.25	46	91	137	164	182	1895
Greece	Thyella	DD	350 std	E/VSmall	-0.15	--	--	--	--	36	1925
Italy	39RM	TB	140 std	E/VSmall	-0.15	--	--	--	--	20	1925
Italy	Abisso	PG	400 std	D/Small	-0.15	10	20	29	35	39	1925
Italy	Alessandro Poerio	DL	1028 std	D/Small	-0.15	19	37	56	67	74	1925
Italy	Andrea Doria	BB	22956 std	A/Large	-0.15	147	293	440	527	586	1925
Italy	Aquila	DL	1594 std	C/Small	-0.15	25	50	74	89	99	1925
Italy	Ardito	DD	790 std	D/Small	-0.15	16	31	47	56	62	1925
Italy	Argonauta	SS	255 subm	E/VSmall	-0.65	3	6	9	11	12	1925, Sub
Italy	Ascaro	DD	414 std	D/Small	-0.15	10	20	30	36	40	1925
Italy	Atropo	SS	320 subm	E/VSmall	-0.65	4	7	11	13	14	1925, Sub
Italy	Audace (i)	DD	840 std	D/Small	-0.15	16	32	48	58	64	1925
Italy	Audace (ii)	DD	1170 std	D/Small	-0.15	20	40	60	72	80	1925
Italy	Balilla	SS	875 subm	D/Small	-0.65	7	14	20	24	27	1925, Sub
Italy	Bixio	CS	3575 std	C/Small	-0.15	42	85	127	152	169	1925
Italy	British H Class	SS	434 subm	D/Small	-0.65	4	9	13	15	17	1925, Sub

Fear God and Dread Nought 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Italy	Brondolo	PG	115 std	E/VSmall	-0.15	--	--	--	--	17	1925
Italy	Campania	CR	2483 std	C/Small	-0.15	33	67	100	120	133	1925
Italy	Caracciolo	BB	31400 std	A/Large	-0.15	181	361	542	650	722	1925
Italy	Castore	PG	867 std	D/Small	-0.25	15	29	44	52	58	1895
Italy	Conte di Cavour	BB	22992 std	A/Large	-0.15	147	293	440	527	586	1925
Italy	Dante Aligheri	BB	19552 std	A/Large	-0.15	132	263	395	473	526	1925
Italy	Delfino (1915)	SS	113 subm	E/VSmall	-0.75	1.3	2.5	3.8	4.5	5	1895, Sub
Italy	Dogali	CR	2050 std	C/Small	-0.25	26	52	77	93	103	1895
Italy	Etna	CR	3450 std	C/Small	-0.25	37	73	110	131	146	1895
Italy	Ettore Fieramosca	CR	3595 std	C/Small	-0.25	38	75	113	135	150	1895
Italy	Europa	AVM	6400 std	B/Medium	-0.65	26	52	77	93	103	1925, Civ
Italy	Ex-Austrian TbVII	TB	131 std	E/VSmall	-0.15	--	--	--	--	19	1925
Italy	Ex-British S Class	SS	255 subm	E/VSmall	-0.65	3	6	9	11	12	1925, Sub
Italy	Ex-British W Class	SS	499 subm	D/Small	-0.65	5	10	14	17	19	1925, Sub
Italy	Ex-German UC 12	SSCML	184 subm	E/VSmall	-0.65	2.4	4.8	7.2	8.6	9.6	1925, Sub
Italy	F Class	SS	319 subm	E/VSmall	-0.65	4	7	11	13	14	1925, Sub
Italy	Foca	SS	280 subm	E/VSmall	-0.65	3	7	10	12	13	1925, Sub
Italy	Gabbiano	TB	162 std	E/VSmall	-0.15	--	--	--	--	22	1925
Italy	Giovanni Bausan	CR	3079 std	C/Small	-0.25	34	68	101	122	135	1895
Italy	Giuseppe Garibaldi	CR	7234 std	B/Medium	-0.15	68	136	203	244	271	1925
Italy	Glauco	SS	244 subm	E/VSmall	-0.65	3	6	9	11	12	1925, Sub
Italy	Indomito	DD	770 std	D/Small	-0.15	15	31	46	55	61	1925
Italy	La Masa	DD	851 std	D/Small	-0.15	16	33	49	59	65	1925
Italy	Libia	CR	3760 std	C/Small	-0.15	44	88	131	158	175	1925
Italy	MAS 1-2	PT	13 std	G/VSmall	-0.15	--	--	--	--	4	1925
Italy	MAS 3-22	PC	11 std	G/VSmall	-0.15	--	--	--	--	3.6	1925
Italy	MAS 23-44 (Cannonieri)	PC	12 std	G/VSmall	-0.15	--	--	--	--	3.8	1925
Italy	MAS 45-52 (Siluranti)	PT	12 std	G/VSmall	-0.15	--	--	--	--	3.8	1925
Italy	MAS 53	PC	12 std	G/VSmall	-0.15	--	--	--	--	3.8	1925
Italy	MAS 54-57	PC	12 std	G/VSmall	-0.15	--	--	--	--	3.8	1925
Italy	MAS 58	PC	12 std	G/VSmall	-0.15	--	--	--	--	3.8	1925

Fear God and Dread Nought 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Italy	MAS 59-62	PC	12 std	G/VSmall	-0.15	--	--	--	--	3.8	1925
Italy	MAS 63-90, 103-114, 253-317, 327-396	PC	44 std	F/VSmall	-0.15	--	--	--	--	9	1925
Italy	MAS 91-102	PC	11 std	G/VSmall	-0.15	--	--	--	--	3.6	1925
Italy	MAS 115-139	PC	19 std	G/VSmall	-0.15	--	--	--	--	5.1	1925
Italy	MAS 140-202	PC	12 std	G/VSmall	-0.15	--	--	--	--	3.8	1925
Italy	MAS 203	PC	13 std	G/VSmall	-0.15	--	--	--	--	4	1925
Italy	MAS 204-217	PC	14 std	G/VSmall	-0.15	--	--	--	--	4.2	1925
Italy	MAS 218-232	PC	13 std	G/VSmall	-0.15	--	--	--	--	4	1925
Italy	MAS 233-252	PC	20 std	G/VSmall	-0.15	--	--	--	--	5.3	1925
Italy	MAS 318	PC	20 std	G/VSmall	-0.15	--	--	--	--	5.3	1925
Italy	Medusa	SS	305 subm	E/VSmall	-0.65	4	7	11	13	14	1925, Sub
Italy	Micca	SS	1244 subm	D/Small	-0.65	9	17	26	31	34	1925, Sub
Italy	Mirabello	DL	1784 std	C/Small	-0.15	27	54	80	96	107	1925
Italy	N Class	SS	363 subm	D/Small	-0.65	4	8	11	14	15	1925, Sub
Italy	Nautilus	SS	320 subm	E/VSmall	-0.65	4	7	11	13	14	1925, Sub
Italy	Nembo	DD	325 std	E/VSmall	-0.15	--	--	--	--	34	1925
Italy	Orione	TB	220 std	E/VSmall	-0.15	--	--	--	--	26	1925
Italy	Pacinotti	SS	1070 subm	D/Small	-0.65	8	16	23	28	31	1925, Sub
Italy	Palestro	DD	1076 std	D/Small	-0.15	19	38	57	68	76	1925
Italy	Pegaso (Alicone Group)	TB	216 std	E/VSmall	-0.15	--	--	--	--	26	1925
Italy	Pegaso (Cigno Group)	TB	216 std	E/VSmall	-0.15	--	--	--	--	26	1925
Italy	Piemonte	CR	2473 ltshp	C/Small	-0.25	32	64	95	114	127	1895
Italy	Pilo	DD	850 std	D/Small	-0.15	16	33	49	59	65	1925
Italy	Pisa	CR	9832 std	B/Medium	-0.15	83	167	250	300	333	1925
Italy	PN Series I	TB	120 std	E/VSmall	-0.15	--	--	--	--	18	1925
Italy	PN Series II	TB	129 std	E/VSmall	-0.15	--	--	--	--	18	1925
Italy	PN Series III	TB	195 std	E/VSmall	-0.15	--	--	--	--	24	1925
Italy	Provana	SS	924 subm	D/Small	-0.65	7	14	21	25	28	1925, Sub
Italy	Pullino	SS	405 subm	D/Small	-0.65	4	8	12	14	16	1925, Sub
Italy	Quarto	CS	3271 std	C/Small	-0.15	40	80	120	144	160	1925

Fear God and Dread Nought 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Italy	Regina Elena	BB	12861 std	B/Medium	-0.15	100	199	299	358	398	1925
Italy	Regina Margherita (RM)	BB	14319 std	B/Medium	-0.15	107	214	320	384	427	1925
Italy	Regina Margherita (BB)	BB	13400 std	B/Medium	-0.15	102	205	307	368	409	1925
Italy	San Giorgio	CR	10167 std	B/Medium	-0.15	85	170	255	306	340	1925
Italy	Sebastino Caboto	PG	810 std	D/Small	-0.15	16	32	47	57	63	1925
Italy	Sirtori	DD	850 std	D/Small	-0.15	16	33	49	59	65	1925
Italy	Soldati	DD	412 std	D/Small	-0.15	10	20	30	36	40	1925
Italy	Soldati (2nd Group)	DD	424 std	D/Small	-0.15	10	21	31	37	41	1925
Italy	St. Bon	BB	10244 std	B/Medium	-0.15	86	171	257	308	342	1925
Italy	Umbria	CR	2689 std	C/Small	-0.25	31	62	93	112	124	1895
Italy	X2	SSML	468 subm	D/Small	-0.65	5	9	14	16	18	1925, Sub
Japan	Adzumo	CR	9278 std	B/Medium	-0.15	80	160	240	288	320	1925
Japan	Akatsuki	DD	363 std	D/Small	-0.15	9	19	28	33	37	1925
Japan	Aki	BB	20100 std	A/Large	-0.15	134	268	402	482	536	1925
Japan	Akitsushima	CR	3100 std	C/Small	-0.25	34	68	102	122	136	1895
Japan	Aso	CM	7726 std	B/Medium	-0.40	50	100	150	180	200	1925
Japan	Aotaka	TB	152 std	E/VSmall	-0.15	--	--	--	--	21	1925
Japan	Asahi	BB	15200 std	B/Medium	-0.15	111	223	334	401	445	1925
Japan	Asakaze	DD	381 std	D/Small	-0.15	10	19	29	34	38	1925
Japan	Asama	CR	9700 std	B/Medium	-0.15	83	165	248	297	330	1925
Japan	Azuma	CR	9278 std	B/Medium	-0.15	80	160	240	288	320	1925
Japan	Chihaya	CS	1243 std	D/Small	-0.15	21	42	63	76	84	1925
Japan	Chikuma	CL	5000 std	C/Small	-0.15	53	106	159	191	212	1925
Japan	Chitose	CR	4760 std	C/Small	-0.15	51	103	154	185	205	1925
Japan	Chitose (Kasagi)	CR	4900 std	C/Small	-0.15	52	105	157	188	209	1925
Japan	Chiyoda	CR	2400 std	C/Small	-0.25	29	58	86	104	115	1895
Japan	Ex-Chilean Esmeralda	CR	2800 std	C/Small	-0.25	32	64	95	114	127	1895
Japan	Ex-Chinee P'ing-Yuan	BB	2150 std	C/Small	-0.35	23	46	69	83	92	1895, Nat
Japan	Ex-Chinese Chen Yuan	BB	7220 std	B/Medium	-0.35	52	104	155	186	207	1895, Nat
Japan	Ex-Chinese Chi-Yuan	CR	2440 std	C/Small	-0.35	25	50	75	90	100	1895, Nat
Japan	Ex-Invertay	AG	1240 std	D/Small	-0.65	9	17	26	31	34	1925, Civ

Fear God and Dread Nought 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Japan	Ex-Italian Mitra	CR	7628 std	B/Medium	-0.15	70	141	211	253	281	1925
Japan	Ex-Italian Roca	CR	7698 std	B/Medium	-0.15	71	142	212	255	283	1925
Japan	Ex-Moray	AG	2312 std	C/Small	-0.65	13	26	39	47	52	1925, Civ
Japan	Ex-Rosary	AG	1162 std	D/Small	-0.65	8	17	25	30	33	1925, Civ
Japan	Ex-Russian Borodino	BB	13516 std	B/Medium	-0.15	103	206	308	370	411	1925
Japan	Ex-Russian Puilki	DD	240 std	E/VSmall	-0.15	--	--	--	--	28	1925
Japan	Ex-Straits of Belle Isle	AG	2698 std	C/Small	-0.65	15	29	44	52	58	1925, Civ
Japan	Ex-Worcester	AG	2942 std	C/Small	-0.65	15	31	46	55	61	1925, Civ
Japan	Experimental Modified Vickers Type	SSC	340 subm	E/VSmall	-0.65	4	8	11	14	15	1925, Sub
Japan	Fuji	BB	12533 std	B/Medium	-0.15	98	196	293	352	391	1925
Japan	Fuji (Yashima)	BB	12320 std	B/Medium	-0.15	97	194	290	348	387	1925
Japan	Fuso (i)	Ironclad	3718 std	C/Small	-0.25	38	77	115	138	153	1895
Japan	Fuso (ii)	BB	30600 std	A/Large	-0.15	177	355	532	638	709	1925
Japan	Harusame	DD	375 std	D/Small	-0.15	10	19	29	34	38	1925
Japan	Hayabusa	TB	152 std	E/VSmall	-0.15	--	--	--	--	21	1925
Japan	Hitachi Maru	AP	6175 std	B/Medium	-0.65	25	50	75	90	100	1925, Civ
Japan	Ibuki	BC	14636 std	B/Medium	-0.15	109	217	326	391	434	1925
Japan	Improved Vickers C3 Type	SSC	326 subm	E/VSmall	-0.65	4	7	11	13	14	1925, Sub
Japan	Izumo	CR	9750 std	B/Medium	-0.15	83	166	248	298	331	1925
Japan	Ikazuchi	DD	305 std	E/VSmall	-0.15	--	--	--	--	33	1925
Japan	Ise	BB	31260 std	A/Large	-0.15	180	360	539	647	719	1925
Japan	Izumi Maru	AP	3229 std	C/Small	-0.65	16	33	49	59	65	1925, Civ
Japan	Kaimon	CS	1350 std	D/Small	-0.35	17	34	51	61	68	Wood
Japan	Kasagi	CR	4900 std	C/Small	-0.15	52	105	157	188	209	1925
Japan	Kasuga	CR	7628 std	B/Medium	-0.15	70	141	211	253	281	1925
Japan	Kashima	BB	16400 std	B/Medium	-0.15	117	234	351	421	468	1925
Japan	Katsuriki	CM	1540 std	C/Small	-0.40	17	34	51	61	68	1925, ML
Japan	Kawachi	BB	20823 std	A/Large	-0.15	137	275	412	494	549	1925
Japan	Kongo	BC	26330 std	A/Large	-0.15	161	321	482	578	642	1925
Japan	Koryo Maru	ML	745 std	D/Small	-0.75	5	9	14	16	18	1925, Civ, ML
Japan	Matsushima	CR	4217 std	C/Small	-0.25	42	84	125	150	167	1895

Fear God and Dread Nought 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Japan	Mikasa	BB	15140 std	B/Medium	-0.15	111	222	333	400	444	1925
Japan	Miyako	CS	1772 std	C/Small	-0.15	27	53	80	95	106	1925
Japan	Modified Schneider-Laubeuf S2 Type	SS	737 subm	D/Small	-0.65	6	12	18	22	24	1925, Sub
Japan	Murakumo	DD	275 std	E/VSmall	-0.15	--	--	--	--	31	1925
Japan	Naniwa	CR	3650 std	C/Small	-0.25	38	76	114	137	152	1895
Japan	Nisshin	CR	7698 std	B/Medium	-0.15	71	142	212	255	283	1925
Japan	Number 5	TB	54 std	F/VSmall	-0.25	--	--	--	--	9.1	1895
Japan	Number 15	TB	52 std	F/VSmall	-0.25	--	--	--	--	8.9	1895
Japan	Number 21	TB	80 std	F/VSmall	-0.25	--	--	--	--	12	1895
Japan	Number 25	TB	85 std	F/VSmall	-0.25	--	--	--	--	12	1895
Japan	Number 26	TB	74 std	F/VSmall	-0.25	--	--	--	--	11	1895
Japan	Number 29	TB	88 std	E/VSmall	-0.15	--	--	--	--	14	1925
Japan	Number 31	TB	89 std	E/VSmall	-0.15	--	--	--	--	14	1925
Japan	Number 39	TB	102 std	E/VSmall	-0.15	--	--	--	--	16	1925
Japan	Number 50	TB	52 std	F/VSmall	-0.15	--	--	--	--	10	1925
Japan	Number 67	TB	87 std	E/VSmall	-0.15	--	--	--	--	14	1925
Japan	Otowa	CL	3000 std	C/Small	-0.15	38	76	113	136	151	1925
Japan	Sado Maru	AP	6223 std	B/Medium	-0.40	43	87	130	156	173	1925, Aux
Japan	Sakura	DD	605 std	D/Small	-0.15	13	26	39	47	52	1925
Japan	Satsuma	BB	19372 std	A/Large	-0.15	131	262	392	471	523	1925
Japan	Schneider-Laubeuf Type	SSC	665 subm	D/Small	-0.65	6	12	17	21	23	1925, Sub
Japan	Shikishima	BB	14850 std	B/Medium	-0.15	110	219	329	394	438	1925
Japan	Shikishima (Hatsuse)	BB	15000 std	B/Medium	-0.15	110	221	331	397	441	1925
Japan	Shirakumo	DD	342 std	E/VSmall	-0.15	--	--	--	--	35	1925
Japan	Shirataka	TB	127 std	E/VSmall	-0.15	--	--	--	--	18	1925
Japan	Sokuten/Toshima	AML	405 std	D/Small	-0.15	10	20	30	36	40	1925
Japan	Suma	CR	2657 std	C/Small	-0.15	35	70	104	125	139	1925
Japan	Suma (Akashi)	CR	2756 std	C/Small	-0.15	36	71	107	128	142	1925
Japan	Takasago	CR	4160 std	C/Small	-0.15	47	94	140	168	187	1925
Japan	Tatsuta	CS	830 std	D/Small	-0.25	14	28	42	50	56	1895

Fear God and Dread Nought 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Japan	Tenryu	CS	1525 std	C/Small	-0.35	18	37	55	66	73	Wood
Japan	Tokiwa (1928)	CM	9240 std	B/Medium	-0.40	56	113	169	203	225	1925, ML
Japan	Tone	CL	4100 std	C/Small	-0.15	47	93	140	167	186	1925
Japan	Tsukuba	CR	13750 std	B/Medium	-0.15	104	208	312	374	416	1925
Japan	Tsushima	CL	3366 std	C/Small	-0.15	41	82	122	147	163	1925
Japan	Umikaze	DD	1030 std	D/Small	-0.15	19	37	56	67	74	1925
Japan	Vickers C1/C2	SSC	326 subm	E/VSmall	-0.65	4	7	11	13	14	1925, Sub
Japan	Wakamiya	AV	7720 std	B/Medium	-0.65	29	59	88	105	117	1925, Civ
Japan	Yaeyama	CS	1584 std	C/Small	-0.25	22	44	65	78	87	1895
Japan	Yakumo	CR	9735 std	B/Medium	-0.15	83	165	248	297	330	1925
Japan	Yoshino	CR	4150 std	C/Small	-0.25	41	83	124	149	165	1895
Russia	Admiral Ushakov	BB	4971 std	C/Small	-0.25	47	93	140	167	186	1895
Russia	Admiral Nakhimov (1899)	CR	8524 std	B/Medium	-0.25	67	134	200	240	267	1895
Russia	AG Class	SS	433 subm	D/Small	-0.65	4	9	13	15	17	1925, Sub
Russia	Akula	SS	475 subm	D/Small	-0.65	5	9	14	16	18	1925, Sub
Russia	Almaz (1911)	ACV	3285 std	C/Small	-0.65	17	33	50	59	66	1925, Civ
Russia	Amur	ML	3010 std	C/Small	-0.40	27	54	80	96	107	1925, Aux
Russia	Anaduir	AP	1200 std	D/Small	-0.65	9	17	26	31	34	1925, Civ
Russia	Askold	CR	5905 std	B/Medium	-0.15	59	119	178	213	237	1925
Russia	Bars	SS	780 subm	D/Small	-0.65	6	13	19	23	25	1925, Sub
Russia	Bayan	CR	7725 std	B/Medium	-0.15	71	142	212	255	283	1925
Russia	Bditelni	DD	380 std	D/Small	-0.15	10	19	29	34	38	1925
Russia	Beovol	DD	350 std	E/VSmall	-0.15	--	--	--	--	36	1925
Russia	Bespokoiny	DD	1100 std	D/Small	-0.15	19	39	58	69	77	1925
Russia	Bezstrashni	DD	346 std	E/VSmall	-0.15	--	--	--	--	36	1925
Russia	Bogatyr	CR	6645 std	B/Medium	-0.15	64	128	192	230	256	1925
Russia	Boiki	DD	350 std	E/VSmall	-0.15	--	--	--	--	36	1925
Russia	Borodino (ii)	BC	32500 std	A/Large	-0.15	185	369	554	664	738	1925
Russia	Borodino (i)	BB	13516 std	B/Medium	-0.15	103	206	308	370	411	1925
Russia	Boyarin	CL	3200 std	C/Small	-0.15	39	79	118	141	157	1925
Russia	Bureya	ML	250 std	E/VSmall	-0.40	--	--	--	--	20	1925, ML

Fear God and Dread Nought 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Russia	Delfin	SS	124 subm	E/Small	-0.65	1.9	3.7	5.6	6.7	7.4	1925, Sub
Russia	Dmitri Donskoi	CR	6200 fl	C/Small	-0.25	49	97	146	175	194	1895
Russia	Dviendadsat Apostolov	BB	8709 std	B/Medium	-0.25	68	136	203	244	271	1895
Russia	Ekaterina II	BB	10181 std	B/Medium	-0.25	75	150	225	270	300	1895
Russia	Emir Bukharski	DD	570 std	D/Small	-0.15	13	25	38	45	50	1925
Russia	Evstafi	BB	12840 std	B/Medium	-0.15	99	199	298	357	397	1925
Russia	Ex-Belgia	AP	7500 std	B/Medium	-0.65	29	57	86	103	114	1925, Civ
Russia	Ex-Chinese Hai Hoha	DD	280 std	E/Small	-0.25	--	--	--	--	27	1925, Nat
Russia	Ex-French Comte	AP	1200 std	D/Small	-0.65	9	17	26	31	34	1925, Civ
Russia	Ex-Kaiserin Maria Theresia	AMC	13600 std	B/Medium	-0.65	43	85	128	153	170	1925, Civ
Russia	Ex-Kherson	AMC	13600 std	B/Medium	-0.75	30	61	91	109	121	1895, Civ
Russia	Ex-Moskva	AMC/AH	1250 std	D/Small	-0.65	9	18	26	32	35	1925, Civ
Russia	Ex-Verein	AT	611 std	D/Small	-0.65	5	11	16	19	21	1925, Civ
Russia	Ex-Zwartezee	AT	542 std	D/Small	-0.65	5	10	15	18	20	1925, Civ
Russia	Gaidamak	DD	570 std	D/Small	-0.15	13	25	38	45	50	1925
Russia	Gangut	BB	23360 std	A/Large	-0.15	148	296	444	533	592	1925
Russia	Gogland	DD	1350 std	D/Small	-0.15	22	44	66	79	88	1925
Russia	Gromoboi	CR	13220 std	B/Medium	-0.15	101	203	304	365	405	1925
Russia	Gromoboi (1906)	CR	13220 std	B/Medium	-0.15	101	203	304	365	405	1925
Russia	Grozyashchi	PG	1627 std	C/Small	-0.25	22	44	66	79	88	1895
Russia	Grozyashchi (Gremyashchi)	PG	1700 std	C/Small	-0.25	23	46	68	82	91	1895
Russia	Grozyashchi (Olvajni)	PG	1854 std	C/Small	-0.25	24	48	72	86	96	1895
Russia	Holland	SS	122 subm	E/Small	-0.65	1.8	3.7	5.5	6.6	7.3	1925, Sub
Russia	Imperator Alexandr II	BB	8440 std	B/Medium	-0.25	66	133	199	239	265	1895
Russia	Imperator Alexandr I	ACV	9240 std	B/Medium	-0.65	33	66	98	118	131	1925, Civ
Russia	Imperator Nikolai	BB	27300 std	A/Large	-0.15	164	329	493	591	657	1925
Russia	Imperator Pavel I	BB	17400 std	B/Medium	-0.15	122	244	365	438	487	1925
Russia	Imperatritsa Mariya	BB	22600 std	A/Large	-0.15	145	290	434	521	579	1925
Russia	Izumrud	CR	3103 std	C/Small	-0.15	39	77	116	139	154	1925
Russia	Izyaslav	DD	1350 std	D/Small	-0.15	22	44	66	79	88	1925
Russia	Kaiman (1911)	SS	482 subm	D/Small	-0.65	5	9	14	16	18	1925, Sub

Fear God and Dread Nought 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Russia	Kamchatka	AR	7200 std	B/Medium	-0.40	48	96	143	172	191	1925, Aux
Russia	Karp	SS	235 subm	E/VSmall	-0.65	3	6	8	10	11	1925, Sub
Russia	Kasatka	SS	177 subm	E/VSmall	-0.65	2.4	4.7	7.1	8.5	9.4	1925, Sub
Russia	Kazarski	PG	394 std	D/Small	-0.25	9	17	26	31	34	1895
Russia	Kerch	DD	1326 std	D/Small	-0.15	22	44	65	78	87	1925
Russia	Khrabri	PG	1735 std	C/Small	-0.25	23	46	69	83	92	1895
Russia	Knayaz Potemkin Tavritcheski	BB	12582 std	B/Medium	-0.15	98	196	294	353	392	1925
Russia	Koreya	AE	6163 std	B/Medium	-0.65	25	50	75	90	100	1925, Civ
Russia	Korietz	PG	1270 std	D/Small	-0.35	16	33	49	59	65	Wood
Russia	Korietz (Mandjur)	PG	1437 std	D/Small	-0.35	18	36	53	64	71	Wood
Russia	Kostroma	AH	6800 std	B/Medium	-0.40	46	92	138	166	184	1925, Aux
Russia	Krab	SSML	760 subm	D/Small	-0.65	6	13	19	23	25	1925, Sub
Russia	Leitenant Ilin/Orfej/Gavril	DD	1260 std	D/Small	-0.15	21	42	63	76	84	1925
Russia	Lieutenant Shestakov	DD	640 std	D/Small	-0.15	14	27	41	49	54	1925
Russia	Minoga	SS	155 subm	E/VSmall	-0.65	2.2	4.3	6.5	7.7	8.6	1925, Sub
Russia	Morzh	SS	760 subm	D/Small	-0.65	6	13	19	23	25	1925, Sub
Russia	Muraviev Amurski	CR	4500 std	C/Small	-0.15	49	99	148	177	197	1925
Russia	Narval	SS	994 subm	D/Small	-0.65	8	15	23	27	30	1925, Sub
Russia	Navarin	BB	10206 std	B/Medium	-0.25	75	151	226	271	301	1895
Russia	Novik (i)	CL	3080 std	C/Small	-0.15	38	77	115	138	153	1925
Russia	Novik (ii)	DD	1280 std	D/Small	-0.15	21	43	64	77	85	1925
Russia	Number 201	TB	76 std	F/VSmall	-0.25	--	--	--	--	11	1895
Russia	Number 203	TB	175 std	E/VSmall	-0.15	--	--	--	--	23	1925
Russia	Number 205	TB	96 std	E/VSmall	-0.25	--	--	--	--	13	1895
Russia	Number 208	TB	120 std	E/VSmall	-0.15	--	--	--	--	18	1925
Russia	Orel	AH	8175 std	B/Medium	-0.65	30	61	91	109	121	1925, Civ
Russia	Orlitsa	ACV	3800 std	C/Small	-0.65	18	37	55	66	73	1925, Civ
Russia	Pallada	CR	6823 std	B/Medium	-0.15	65	131	196	235	261	1925
Russia	Panteleimon/Potemkin	BB	12582 std	B/Medium	-0.15	98	196	294	353	392	1925
Russia	Peresvyet	BB	12674 std	B/Medium	-0.15	99	197	296	355	394	1925
Russia	Petropavlovsk	BB	11354 std	B/Medium	-0.25	81	162	242	291	323	1895

Fear God and Dread Nought 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Russia	Puiliki	DD	240 std	E/VSmall	-0.15	--	--	--	--	28	1925
Russia	Regele Carol I	ACV	2368 std	C/Small	-0.65	13	27	40	48	53	1925, Civ
Russia	Retvizan	BB	12900 std	B/Medium	-0.15	100	200	299	359	399	1925
Russia	Rossia	CR	13675 std	B/Medium	-0.25	92	183	275	329	366	1895
Russia	Rostislav	BB	8800 std	B/Medium	-0.15	77	155	232	278	309	1925
Russia	Rumania	ACV	3418 std	C/Small	-0.65	17	34	51	61	68	1925, Civ
Russia	Rurik (i)	CR	10940 std	B/Medium	-0.25	79	158	236	284	315	1895
Russia	Rurik (ii)	CR	15190 std	B/Medium	-0.15	111	223	334	401	445	1925
Russia	Sisoi Veliki	BB	10400 std	B/Medium	-0.15	86	173	259	311	345	1895
Russia	Storozhevoi	DD	350 std	E/VSmall	-0.15	--	--	--	--	36	1925
Russia	Svetlana	CL	3862 std	C/Small	-0.15	45	89	134	160	178	1925
Russia	Tri Sviatitelia	BB	13318 std	B/Medium	-0.25	90	180	269	323	359	1895
Russia	Tri Sviatitelia (1912)	BB	12540 std	B/Medium	-0.25	86	173	259	311	345	1895
Russia	Tsarevich	BB	12912 std	B/Medium	-0.15	100	200	299	359	399	1925
Russia	Tsesarevich	BB	12912 std	B/Medium	-0.15	100	200	299	359	399	1925
Russia	Ukrania	DD	580 std	D/Small	-0.15	13	25	38	45	50	1925
Russia	Varyag	CR	6500 std	B/Medium	-0.15	63	126	189	227	252	1925
Russia	Vladmir Monomakh	CR	5593 fl	C/Small	-0.25	45	91	136	163	181	1895
Russia	Vnimatelni	DD	312 std	E/VSmall	-0.15	--	--	--	--	33	1925
Turkey	Abdul Mecid	TB	145 std	E/VSmall	-0.15	--	--	--	--	20	1925
Turkey	Akhisar	TB	165 std	E/VSmall	-0.15	--	--	--	--	22	1925
Turkey	Asar-I-Tevfik (1900)	BB	4687 std	C/Small	-0.25	45	90	134	161	179	1895
Turkey	Berkk I Satvet	PG	760 std	D/Small	-0.15	15	30	45	54	60	1925
Turkey	Ex-German Brandenburg	BB	10670 std	B/Medium	-0.25	78	155	233	279	310	1895
Turkey	Ex-German Magdeburg	CL	4570 std	C/Small	-0.15	50	100	150	180	200	1925
Turkey	Ex-German Moltke	BC	22616 std	A/Large	-0.15	145	290	435	522	580	1925
Turkey	Ex-German S 165	DD	665 std	D/Small	-0.15	14	28	41	50	55	1925
Turkey	Ex-German Worth	BB	10600 std	B/Medium	-0.15	88	175	263	315	350	1925
Turkey	Ex-French 38-meter	TB	98 std	E/VSmall	-0.15	--	--	--	--	15	1925
Turkey	Ex-French Durandal	DD	284 std	E/VSmall	-0.15	--	--	--	--	31	1925
Turkey	Hamidije	CR	3830 std	C/Small	-0.15	44	89	133	159	177	1925

Fear God and Dread Nought 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Turkey	Marmaris	PG	422 std	D/Small	-0.15	10	21	31	37	41	1925
Turkey	Medjidije	CR	3200 std	C/Small	-0.15	39	79	118	141	157	1925
Turkey	Messudieh	BB	9250 std	B/Medium	-0.25	71	141	212	254	282	1895
USA	110' Subchaser	PC	77 std	F/VSmall	-0.35	--	--	--	--	10	Wood
USA	AA (T) Class	SS	1482 subm	D/Small	-0.65	10	20	29	35	39	1925, Sub
USA	Atlanta	CR	3189 std	C/Small	-0.25	35	69	104	124	138	1895
USA	Baltimore	CR	4413 std	C/Small	-0.25	43	86	129	155	172	1895
USA	C Class	SS	275 subm	E/VSmall	-0.65	3	7	10	12	13	1925, Sub
USA	Caldwell	DD	1120 std	D/Small	-0.15	20	39	59	70	78	1925
USA	Cassin	DD	1010 std	D/Small	-0.15	18	37	55	66	73	1925
USA	Chester	CS	3400 std	C/Small	-0.15	41	82	123	148	164	1925
USA	Chicago	CR	5000 std	C/Small	-0.25	47	94	140	168	187	1895
USA	Cincinnati	CR	3183 std	C/Small	-0.25	35	69	104	124	138	1894
USA	Clemson	DD	1190 std	D/Small	-0.15	20	41	61	73	81	1925
USA	Colorado	BB	32500 std	A/Large	-0.15	185	369	554	664	738	1925
USA	Connecticut	BB	16000 std	B/Medium	-0.15	115	230	345	414	460	1925
USA	Crusier Submarine	SS	10000 std	B/Medium	-0.65	35	70	104	125	139	1925, Sub
USA	D Class	SS	337 subm	E/VSmall	-0.65	4	7	11	13	14	1925, Sub
USA	Delaware	BB	20380 std	A/Large	-0.15	135	271	406	487	541	1925
USA	Denver	CR	3200 std	C/Small	-0.15	39	79	118	141	157	1925
USA	E Class	SS	342 subm	E/VSmall	-0.65	4	8	11	14	15	1925, Sub
USA	Eagle Boat	PC	500 std	D/Small	-0.15	12	23	35	41	46	1925
USA	F Class	SS	400 subm	D/Small	-0.65	4	8	12	14	16	1925, Sub
USA	Florida	BB	21825 std	A/Large	-0.15	142	283	425	509	566	1925
USA	H Class	SS	467 subm	D/Small	-0.65	5	9	14	16	18	1925, Sub
USA	Illinois	BB	11565 std	B/Medium	-0.15	93	186	278	334	371	1925
USA	Indiana	BB	10288 std	B/Medium	-0.25	76	151	227	272	302	1895
USA	Iowa	BB	11410 std	B/Medium	-0.25	81	162	243	292	324	1895
USA	K Class	SS	521 subm	D/Small	-0.65	5	10	14	17	19	1925, Sub
USA	Kearsarge	BB	11540 std	B/Medium	-0.15	93	185	278	333	370	1925
USA	L Class	SS	548 subm	D/Small	-0.65	5	10	15	18	20	1925, Sub

Fear God and Dread Nought 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
USA	M Class	SS	676 subm	D/Small	-0.65	6	12	17	21	23	1925, Sub
USA	Machias	PG	1177 std	D/Small	-0.25	18	36	53	64	71	1895
USA	Maine	BB	12500 std	B/Medium	-0.15	98	195	293	351	390	1925
USA	Minneapolis	CR	7350 std	B/Medium	-0.25	61	121	182	218	242	1895
USA	Monaghan	DD	787 std	D/Small	-0.15	16	31	47	56	62	1925
USA	Montgomery	CR	2094 std	C/Small	-0.25	26	53	79	95	105	1895
USA	N Class	SS	414 subm	D/Small	-0.65	4	9	13	15	17	1925, Sub
USA	Nashville	PG	1371 std	D/Small	-0.15	22	45	67	80	89	1925
USA	Nevada	BB	27500 std	A/Large	-0.15	165	330	495	594	660	1925
USA	New Mexico	BB	32000 std	A/Large	-0.15	183	366	548	658	731	1925
USA	New Orleans	CR	3430 std	C/Small	-0.15	41	83	124	149	165	1925
USA	New Orleans (1908)	CR	3430 std	C/Small	-0.15	41	83	124	149	165	1925
USA	New York	BB	27000 std	A/Large	-0.15	163	326	489	587	652	1925
USA	Newark	CR	4083 std	C/Small	-0.25	41	82	122	147	163	1895
USA	O Class	SS	629 subm	D/Small	-0.65	6	11	17	20	22	1925, Sub
USA	O'Brien	DD	1050 std	D/Small	-0.15	19	38	56	68	75	1925
USA	Olympia	CR	5865 std	B/Medium	-0.25	52	104	156	187	208	1895
USA	Olympia (1918)	CR	5865 std	B/Medium	-0.25	52	104	156	187	208	1895
USA	Paulding	DD	742 std	D/Small	-0.15	15	30	44	53	59	1925
USA	Pennsylvania (i)	CR	13400 std	B/Medium	-0.15	102	205	307	368	409	1925
USA	Pennsylvania (ii)	BB	31400 std	A/Large	-0.15	181	361	542	650	722	1925
USA	Prairie	AMC	6872 std	B/Medium	-0.25	58	116	173	208	231	1895
USA	Rochester	CR	8150 std	B/Medium	-0.25	65	130	194	233	259	1895
USA	Sampson	DD	1100 std	D/Small	-0.15	19	39	58	69	77	1925
USA	San Francisco	CR	4088 std	C/Small	-0.25	41	82	122	147	163	1895
USA	Smith	DD	700 std	D/Small	-0.15	14	29	43	51	57	1925
USA	South Carolina	BB	16000 std	B/Medium	-0.15	115	230	345	414	460	1925
USA	St. Louis	CR	9700 std	B/Medium	-0.15	83	165	248	297	330	1925
USA	Tennessee (i)	CR	14500 std	B/Medium	-0.15	108	216	323	388	431	1925
USA	Tennessee (ii)	BB	32300 std	A/Large	-0.15	184	368	551	662	735	1925
USA	Topeka	PG	2372 std	C/Small	-0.15	32	65	97	116	129	1925

Fear God and Dread Nought 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
USA	Tucker	DD	1090 std	D/Small	-0.15	19	39	58	69	77	1925
USA	Virginia	BB	14948 std	B/Medium	-0.15	110	220	330	396	440	1925
USA	Wickes	DD	1090 std	D/Small	-0.15	19	39	58	69	77	1925
USA	Wyoming	BB	26000 std	A/Large	-0.15	159	318	477	572	636	1925

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Argentina	Bouchard	MS	450 std	D/Small	-0.35	8	17	25	30	33	Wood
Argentina	Buenos Aires	DD	1375 std	D/Small		26	53	79	95	105	
Argentina	Ex-German M27	MS	480 std	D/Small	-0.15	11	22	33	40	44	1925
Argentina	Ex-German M57	MS	500 std	D/Small	-0.15	12	23	35	41	46	1925
Argentina	Ex-UK Colossus	CV	13350 std	B/Medium	-0.25	90	180	270	324	360	MStd
Argentina	Ex-US Brooklyn (1st Group)	CL	10800 std	B/Medium		104	209	313	375	417	
Argentina	Ex-US Klickitat	AOG	2060 std	C/Small	-0.25	26	52	77	93	103	Aux
Argentina	Ex-US LST	LST	2366 std	C/Small	-0.25	28	57	85	102	113	Amphib
Argentina	Ex-US Tacoma	PF	1445 std	D/Small		27	55	82	98	109	
Argentina	King	PC	900 std	D/Small		20	40	59	71	79	
Argentina	La Argentina	CL	6000 std	B/Medium		70	141	211	253	281	
Argentina	Mendoza	DD	1570 std	C/Small		29	58	86	104	115	
Argentina	Punta Medanos	AOR	14352 std	B/Medium	-0.25	95	189	284	340	378	Aux
Argentina	Santa Fe	SS	920 subm	D/Small		20	41	61	73	81	
Argentina	Spanish Churruca	DD	1522 std	C/Small		28	57	85	102	113	
Argentina	Vienticinco de Mayo	CA	6800 std	B/Medium		77	153	230	275	306	
Australia	Albatross	AV	4800 std	C/Small	-0.25	46	91	137	164	182	Aux
Australia	ALC 5	LCT	9.5 ltshp	G/VSmall	-0.25	--	--	--	--	3.1	Amphib
Australia	ALC 15	LCT	15.5 ltshp	G/VSmall	-0.25	--	--	--	--	4.3	Amphib
Australia	ALC 20	LCT	18.5 ltshp	F/VSmall	-0.25	--	--	--	--	4.8	Amphib
Australia	ALC 40	LCT	21.7 ltshp	F/VSmall	-0.25	--	--	--	--	5.4	Amphib
Australia	ALC 120	LCT	77 ltshp	E/VSmall	-0.25	--	--	--	--	13	Amphib
Australia	Bathurst	MS	650 std	D/Small		16	32	48	58	64	
Australia	Bingera	AF	922 grt	D/Small	-0.50	8	17	25	30	33	Civ
Australia	Bungaree	CM	3155 grt	C/Small	-0.50	19	38	57	68	76	Civ
Australia	Centaur	AH	3222 grt	C/Small	-0.65	14	27	41	49	54	1925, Civ
Australia	Ex-Admiralty V&W Class	DD	1188 std	D/Small	-0.15	20	41	61	73	81	1925
Australia	Ex-GB Admiralty Scott Class	DL	1580 std	C/Small	-0.15	25	49	74	88	98	1925
Australia	Ex-GB Colossus (Vengeance)	CVL	16510 std	B/Medium		138	277	415	498	553	
Australia	Ex-GB Colossus (Warrior)	CVL	13350 std	B/Medium	-0.25	90	180	270	324	360	MStd
Australia	Ex-GB London	CA	9830 std	B/Medium	-0.15	83	167	250	300	333	1925

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Australia	Ex-GB Q	DD	1725 std	C/Small		31	62	92	111	123	
Australia	GB Bar	AN	730 std	D/Small	-0.25	13	26	39	47	52	Aux
Australia	GB Battle Class	DD	2440 std	C/Small		39	77	116	139	154	
Australia	GB Bayonet	AN	533 std	D/Small	-0.25	11	21	32	38	42	Aux
Australia	GB Birmingham	CL	5184 std	C/Small	-0.15	54	109	163	195	217	1925
Australia	GB Kent	CA	9850 std	B/Medium	-0.15	83	167	250	300	333	1925
Australia	GB LCA	LCA	9 ltshp	G/VSmall	-0.25	--	--	--	--	3	Amphib
Australia	GB N Class	DD	1770 std	C/Small		31	63	94	113	125	
Australia	GB Tribal	DD	1927 std	C/Small		33	66	99	119	132	
Australia	Kanimbla (AMC)	AMC	10985 grt	B/Medium	-0.50	44	87	131	157	174	
Australia	Kanimbla (LSI)	LSI(L)	10985 grt	B/Medium	-0.50	44	87	131	157	174	Civ
Australia	Manoora (AMC)	AMC	10856 grt	B/Medium	-0.50	43	87	130	156	173	
Australia	Manoora (LSI)	LSI(L)	10856 grt	B/Medium	-0.50	43	87	130	156	173	Civ
Australia	Mod River (RAN)	DE	1580 std	C/Small	-0.25	22	44	65	78	87	MStd
Australia	Penguin/Platypus	AD	3455 std	C/Small	-0.40	29	59	88	105	117	1925, Aux
Australia	Perth	CL	6890 std	B/Medium		77	155	232	278	309	
Australia	Perth (Hobart)	CL	7105 std	B/Medium		79	158	236	284	315	
Australia	Perth (Sydney)	CL	6830 std	B/Medium		77	154	230	276	307	
Australia	RAN Grimsby 1st Group	DE	1060 std	D/Small		22	45	67	80	89	
Australia	RAN Grimsby 2nd Group	DE	1060 std	D/Small		22	45	67	80	89	
Australia	Reserve	ATF	763 std	D/Small	-0.25	13	27	40	48	53	Aux
Australia	River (RAN)	DE	1475 std	D/Small	-0.25	21	42	62	75	83	MStd
Australia	US LCM(3)	LCM	22 ltshp	F/VSmall	-0.25	--	--	--	--	5.4	Amphib
Australia	Westralia (LSI)	LSI(L)	8108 grt	B/Medium	-0.50	36	71	107	128	142	Civ
Australia	Westralia (AMC)	AMC	8108 grt	B/Medium	-0.50	36	71	107	128	142	
Brazil	Acre	DD	1340 std	D/Small		26	52	78	94	104	
Brazil	Bahia (1926)	CL	3100 std	C/Small	-0.15	39	77	116	139	154	1925
Brazil	Carioca	ML	552 std	D/Small	-0.25	11	22	32	39	43	ML
Brazil	Ex-GB Hunt	AGS	800 std	D/Small	-0.15	16	31	47	56	62	1925
Brazil	Ex-US Cannon	DE	1253 std	D/Small		25	50	74	89	99	
Brazil	Henrique Dias	PC	813 std	D/Small		19	37	56	67	74	

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Brazil	Humaita	SS	1814 subm	C/Small		32	64	95	114	127	
Brazil	Marcello Dias	DD	1500 std	D/Small		28	56	84	101	112	
Brazil	Tupi	SS	853 subm	D/Small		19	39	58	69	77	
Brazil	US PC-461	PC	414 std	D/Small		12	24	35	42	47	
Brazil	US SC-497	PC	121 std	E/VSmall		--	--	--	--	21	
Canada	Algerine (Steam Recip)	DE	1010 std	D/Small		22	43	65	77	86	
Canada	Ex-GB Colossus	CVL	13350 std	B/Medium	-0.25	90	180	270	324	360	MStd
Canada	Ex-GB Saint class	ATO	600 std	D/Small	-0.15	13	26	39	47	52	1925
Canada	GB Admiralty 1st Group	MMS	255 std	E/VSmall	-0.35	--	--	--	--	22	Wood
Canada	GB Admiralty 2nd Group	MMS	360 std	D/Small	-0.35	7	14	21	25	28	Wood
Canada	GB Bangor (Diesel)	MS	590 std	D/Small		15	30	45	54	60	
Canada	GB Bangor (VTE)	MS	688 std	D/Small		17	33	50	59	66	
Canada	GB E & F Class	DD	1427 std	D/Small		27	54	81	97	108	
Canada	GB Flower Class	DE	1110 std	D/Small	-0.25	17	35	52	62	69	MStd
Canada	GB Majestic	CVL	15770 std	B/Medium	-0.25	101	201	302	362	402	MStd
Canada	GB Swiftsure	CL	8800 std	B/Medium		91	182	272	327	363	
Canada	GB Tribal	DD	1927 std	C/Small		33	66	99	119	132	
Canada	GB Uganda	CL	8875 std	B/Medium		91	183	274	329	365	
Canada	GB V Class	DD	1802 std	C/Small		32	63	95	113	126	
Canada	River (RCN Group)	DE	1475 std	D/Small	-0.25	21	42	62	75	83	MStd
Canada	Saguenay	DD	1337 std	D/Small		26	52	77	93	103	
Chile	Araucano	AS	9000 std	B/Medium	-0.25	69	139	208	249	277	Aux
Chile	Captain O'Brien	SS	2020 subm	C/Small		34	68	102	122	136	
Chile	Chacabuco (1941)	CL	4500 std	C/Small	-0.15	49	99	148	177	197	1925
Chile	Serrano	DD	1090 std	D/Small		23	45	68	81	90	
China	Chang class	TB	90 std	E/VSmall	-0.25	--	--	--	--	13	1895
China	Chang Feng	DD	390 std	D/Small	-0.15	10	20	29	35	39	1925
China	Chiang Hsi	PR	140 std	E/VSmall	-0.15	--	--	--	--	20	1925
China	Chen class	TB	120 std	E/VSmall	-0.15	--	--	--	--	18	
China	Chiang Kung (1935)	PR	250 std	E/VSmall	-0.15	--	--	--	--	29	1925
China	Chiang Yuan	PG	565 std	D/Small	-0.15	12	25	37	44	49	1925

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
China	Chien An (1925)	PG	861 std	D/Small	-0.15	17	33	50	59	66	1925
China	Chien Chung	PR	90 std	E/VSmall	-0.15	--	--	--	--	15	1925
China	Chao Ho (Chao Ho)	CR	2750 std	C/Small	-0.15	36	71	107	128	142	1925
China	Choa Ho (Ying Swei)	CR	2500 std	C/Small	-0.15	33	67	100	120	133	1925
China	Chu class	PG	752 std	D/Small	-0.15	15	30	45	54	60	1925
China	Ex-French Balny	PR	201 std	E/VSmall		--	--	--	--	29	
China	Ex-GB Arethusa Second Group	CL	5270 std	C/Small		65	129	194	232	258	
China	Ex-GB Falcon	PR	372 std	D/Small		11	22	33	40	44	
China	Ex-GB Flower	PG	1110 std	D/Small	-0.25	17	35	52	62	69	MStd
China	Ex-GB Peterel	PR	310 std	E/VSmall		--	--	--	--	39	
China	Ex-GB Sandpiper	PR	185 std	E/VSmall		--	--	--	--	28	
China	Ex-IJN Akizuki	DD	2744 std	C/Small		42	84	125	150	167	
China	Ex-IJN Ataka	PG	1094 std	D/Small	-0.15	19	39	58	69	77	1925
China	Ex-IJN Atami	PR	225 std	E/VSmall		--	--	--	--	32	
China	Ex-IJN Ch.28	PC	420 std	D/Small		12	24	36	43	48	
China	Ex-IJN Etorofu	DE	870 std	D/Small		20	39	59	70	78	
China	Ex-IJN Fushimi	PR	350 std	E/VSmall		--	--	--	--	42	
China	Ex-IJN Hashidte	PG	999 std	D/Small		21	43	64	77	85	
China	Ex-IJN Kagero	DD	2065 std	C/Small		35	69	104	124	138	
China	Ex-IJN Matsu	DD	1282 std	D/Small		25	51	76	91	101	
	Ex-IJN Narumi; Ex-Italian Ermanno										
China	Carlotto	PR	218 std	E/VSmall	-0.15	--	--	--	--	26	1925
China	Ex-IJN Okitsu, ex-Italian Ostia	PG	615 std	D/Small		16	31	47	56	62	
China	Ex-IJN Seta	PR	340 std	E/VSmall	-0.15	--	--	--	--	35	1925
China	Ex-IJN Tachibana	DD	1289 std	D/Small		25	51	76	91	101	
China	Ex-IJN Ukuru	DE	940 std	D/Small		21	41	62	74	82	
China	Ex-IJN Wa.1	MMS	215 std	E/VSmall	-0.35	--	--	--	--	20	Wood
China	Ex-US Evarts	DE	1192 std	D/Small		24	48	72	86	96	
China	Ex-US Wake	PR	370 std	D/Small		11	22	33	40	44	
China	Fei Ying	DD	837 std	D/Small	-0.15	16	32	48	58	64	1925
China	Fu An	CR	1900 std	C/Small	-0.25	25	49	74	88	98	1895

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
China	Hai Chi	CR	4300 std	C/Small	-0.15	48	96	144	173	192	1925
China	Hai Fu	PR	166 std	E/VSmall	-0.15	--	--	--	--	22	1925
China	Hai Ho	PR	211 std	E/VSmall	-0.15	--	--	--	--	26	1925
China	Hai Hung	PR	190 std	E/VSmall	-0.15	--	--	--	--	24	1925
China	Hai Yen	PR	56 std	F/VSmall	-0.15	--	--	--	--	11	1925
China	Hai Yung	CR	2680 std	C/Small	-0.15	35	70	105	126	140	1925
China	Hao Chi	CR	4300 std	C/Small	-0.15	48	96	144	173	192	1925
China	Hsien Ning	PG	418 std	D/Small		12	24	36	43	48	
China	Hu Peng	TB	96 std	E/VSmall	-0.15	--	--	--	--	15	1925
China	Jen Shen	PG	300 std	E/VSmall	-0.15	--	--	--	--	32	1925
China	KUAI 1 type	PT	14 std	G/VSmall	-0.35	--	--	--	--	3.2	Wood
China	KUAI 3 type	PT	18 std	G/VSmall	-0.35	--	--	--	--	3.8	Wood
China	KUAI 5 type	PT	14 std	G/VSmall	-0.35	--	--	--	--	3.2	Wood
China	KUAI 101 type	PT	94 std	E/VSmall		--	--	--	--	18	
China	Ming Cheun	PG	460 std	D/Small		13	26	38	46	51	
China	Ning	PG	400 std	D/Small		12	23	35	41	46	
China	Ning class	PC	400 std	D/Small		12	23	35	41	46	
China	Ning Hai	CL	2500 std	C/Small		39	79	118	141	157	
China	Ta Tung (1931)	PG	900 std	D/Small	-0.15	17	34	51	61	68	1925
China	Tung Chi	CR	1900 std	C/Small	-0.15	28	56	83	100	111	1925
China	Wei Sheng	AV	932 std	D/Small	-0.15	17	35	52	62	69	1925
China	Wu Feng (1925)	PG	200 std	E/VSmall	-0.15	--	--	--	--	25	1925
China	Yat Sen	PG	1529 std	C/Small		28	57	85	102	113	
China	Yi Hsien	PG	1520 std	C/Small		28	57	85	102	113	
China	Yung Chien	PG	869 std	D/Small	-0.15	17	33	50	59	66	1925
China	Yung Hsiang (1946)	PG	780 std	D/Small	-0.15	15	31	46	55	61	1925
China	Yung Shen	PG	300 std	E/VSmall		--	--	--	--	38	
China	Yung Sui	PG	650 std	D/Small		16	32	48	58	64	
Dominican Rep.	Ex-USCG 75' Patrol Boat	PC	37 std	F/VSmall	-0.35	--	--	--	--	6.1	Wood

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Dominican Rep.	Ex-USCG 83' Patrol Boat	PC	45 std	F/VSmall	-0.35	--	--	--	--	7	Wood
Dominican Rep.	Ex-USCG Thetis	WPC	334 std	E/VSmall		--	--	--	--	41	
Ecuador	Ex-USCG 83' Patrol Boat	PC	45 std	F/VSmall	-0.35	--	--	--	--	7	Wood
Egypt	Abdul Monatam	PB	610 std	D/Small	-0.15	13	26	39	47	52	1925
Egypt	Al Sarea	PC	20 std	G/VSmall	-0.35	--	--	--	--	4.1	Wood
Egypt	Darfeel	PB	20 std	G/VSmall	-0.35	--	--	--	--	4.1	Wood
Egypt	El Amir Faroug	DE	1441 std	D/Small		27	55	82	98	109	
Egypt	El Amira Fawzia	AK	2640 grt	C/Small	-0.50	17	34	50	60	67	Civ
Egypt	Ex-GB Modified Black Swan	DE	1390 std	D/Small		27	53	80	95	106	
Egypt	Mabahiss	AG	618 std	D/Small	-0.50	8	16	23	28	31	Civ
Egypt	Mahroussa	AG	4561 grt	C/Small	-0.65	17	34	51	61	68	1925, Civ
Finland	Ilmarinen	BM	3900 std	C/Small		53	106	158	190	211	
Finland	Karjala	PG	342 std	E/VSmall	-0.15	--	--	--	--	35	1925
Finland	Rautu	MS	165 std	E/VSmall	-0.15	--	--	--	--	22	1925
Finland	Riilathi	ML	400 std	D/Small	-0.25	9	18	26	32	35	ML
Finland	Ruotsinsalmi	MS	310 std	E/VSmall		--	--	--	--	39	
Finland	Saukko	SSC	136 subm	E/VSmall	-0.50	3	6	8	10	11	Sub
Finland	Syöksy	PT	12 std	G/VSmall		--	--	--	--	4.5	
Finland	Uusimaa	PG	400 std	D/Small	-0.15	10	20	29	35	39	1925
Finland	Uusimaa (1941)	PG	400 std	D/Small	-0.15	10	20	29	35	39	1925
Finland	Vesikko	SSC	300 subm	E/VSmall	-0.50	5	10	14	17	19	Sub
Finland	Vetehinen	SS	715 subm	D/Small	-0.50	9	17	26	31	34	Sub
Finland	VMV 1	PC	30 std	F/VSmall		--	--	--	--	8.2	
Finland	VMV 8	PC	33 std	F/VSmall		--	--	--	--	8.8	
France	600-ton Type (757 t)	SSC	757 subm	D/Small	-0.50	9	18	26	32	35	Sub
France	600-ton Type (787 t)	SSC	787 subm	D/Small	-0.50	9	18	27	32	36	Sub
France	630-ton Admiralty Type	SSC	856 subm	D/Small	-0.50	10	19	29	34	38	Sub
France	630-ton Loire-Simont type	SSC	822 subm	D/Small	-0.50	9	19	28	33	37	Sub
France	630-ton Normand-Fenaux type	SSC	807 subm	D/Small	-0.50	9	19	28	33	37	Sub

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
France	630-ton Schneider-Laubeuf type	SSC	798 subm	D/Small	-0.50	9	19	28	33	37	Sub
France	Aigle	DL	2441 std	C/Small		39	77	116	139	154	
France	Algérie	CA	10000 std	B/Medium		99	198	297	356	396	
France	Arras	PG	850 std	D/Small	-0.15	16	33	49	59	65	1925
France	Balny	PR	201 std	E/VSmall	-0.15	--	--	--	--	25	1925
France	Béarn	CV	22146 std	A/Large	-0.15	143	286	429	515	572	1925
France	Bougainville	PG	1965 std	C/Small		34	67	101	121	134	
France	Bourrasque	DD	1298 std	D/Small	-0.15	22	43	65	77	86	1925
France	Bretagne	BB	22189 std	A/Large		168	337	505	606	673	
France	CH.1	PC	148 std	E/VSmall		--	--	--	--	24	
France	CH.5	PC	107 std	E/VSmall		--	--	--	--	19	
France	CH.41	PC	126 std	E/VSmall	-0.35	--	--	--	--	14	Wood
France	Chacal	DL	2126 std	C/Small	-0.15	30	60	90	108	120	1925
France	Chamois	PG	647 std	D/Small		16	32	48	58	64	
France	Charles Plumier	AMC	4504 grt	C/Small	-0.50	24	48	72	86	96	Civ
France	Commandant Teste	CVS	10000 std	B/Medium	-0.25	74	149	223	267	297	Aux
France	Courbet	BB	23467 std	A/Large	-0.15	149	297	446	535	594	1925
France	De Grasse	CL	8000 std	B/Medium		85	171	256	307	341	
France	Doudart de la Grée	PR	183 std	E/VSmall	-0.15	--	--	--	--	23	1925
France	Duguay-Trouin	CL	7249 std	B/Medium	-0.15	68	136	203	244	271	1925
France	Dunkerque (Dunkerque)	BC	26500 std	A/Large		190	379	569	682	758	
France	Dunkerque (Strasbourg)	BC	27300 std	A/Large		193	387	580	696	773	
France	Duquesne	CA	10000 std	B/Medium	-0.15	84	168	252	302	336	1925
France	El Djézair	AMC	5790 grt	C/Small	-0.50	28	57	85	102	113	Civ
France	El Kantar	AMC	5079 grt	C/Small	-0.50	26	52	78	94	104	Civ
France	El Mansour	AMC	5818 grt	C/Small	-0.50	29	57	86	103	114	Civ
France	Elan	PG	680 std	D/Small		17	33	50	59	66	
France	Emeraude	SSML	1119 subm	D/Small	-0.50	12	23	35	41	46	Sub
France	Emile Bertin	CL/CM	5886 std	B/Medium		70	139	209	250	278	
France	Ex-GB Admiralty Motor launch	PG	45 std	F/VSmall	-0.35	--	--	--	--	7	Wood
France	Ex-GB Avenger	CVE	10366 std	B/Medium		101	203	304	365	405	

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
France	Ex-GB Colossus	CVL	16510 std	B/Medium		138	277	415	498	553	
France	Ex-GB Fairmile A	PG	45 std	F/VSmall		--	--	--	--	11	
France	Ex-GB Fairmile B	PG	45 std	F/VSmall		--	--	--	--	11	
France	Ex-GB Flower	DE	1110 std	D/Small	-0.25	17	35	52	62	69	MStd
France	Ex-GB River (1st Group)	PF	1370 std	D/Small	-0.25	20	40	59	71	79	MStd
France	Ex-US Cannon	DE	1253 std	D/Small		25	50	74	89	99	
France	Friponne	PG	315 std	E/VSmall	-0.15	--	--	--	--	34	1925
France	Gascongne	BB	35000 std	A/Large		228	457	685	822	913	
France	GB Admiralty first group MMS	MMS	255 std	E/VSmall	-0.35	--	--	--	--	22	Wood
France	Guépard	DL	2436 std	C/Small		39	77	116	139	154	
France	Jacques Coeur	PG	700 std	D/Small	-0.15	14	29	43	51	57	1925
France	Jean Bart (1950)	BB	46809 std	A/Large		277	554	831	997	1108	
France	Jeanne D'Arc	CL	6496 std	B/Medium	-0.25	56	112	167	201	223	MStd
France	Joffre	CV	18000 std	B/Medium		147	293	440	527	586	
France	Jules Verne	AS	4347 std	C/Small	-0.25	43	85	128	153	170	Aux
France	L'Adroit	DD	1356 std	D/Small	-0.15	22	45	67	80	89	1925
France	L'Aurore	SS	1170 subm	D/Small	-0.50	12	24	35	42	47	Sub
France	La Fier	TB	994 std	D/Small		21	43	64	77	85	
France	La Galissonniere	CL	7600 std	B/Medium		83	165	248	297	330	
France	La Gladiateur	AN	1858 std	C/Small	-0.25	24	49	73	87	97	Aux
France	La Melpomene	TB	680 std	D/Small		17	33	50	59	66	
France	Le Fantasque	DL	2569 std	C/Small		40	80	120	144	160	
France	Le Hardi	DD	1772 std	C/Small	-0.15	27	53	80	95	106	
France	Lorraine (1935)	BB	22189 std	A/Large		168	337	505	606	673	
France	Marne	PG	570 std	D/Small	-0.15	13	25	38	45	50	1925
France	May 1927 Design	BC	32500 std	A/Large		185	369	554	664	738	
France	May/Jul 1928 Design	BC	33000 std	A/Large		187	373	560	671	746	
France	May/Jun 1928 Design	BC	32500 std	A/Large		185	369	554	664	738	
France	Mogador	DL	2884 std	C/Small		43	87	130	156	173	
France	Petit Navire de Lingne	BC	17500 std	B/Medium		144	288	431	518	575	
France	Redoutable	SS	2084 subm	C/Small	-0.50	18	35	53	63	70	Sub

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
France	Requin	SS	1441 subm	D/Small	-0.50	14	27	41	49	54	Sub
France	Richelieu	BB	35000 std	A/Large		228	457	685	822	913	
France	Richelieu (1943)	BB	35000 std	A/Large		228	457	685	822	913	
France	Roland Morillot	SS	2417 subm	C/Small	-0.50	19	39	58	69	77	Sub
France	Saphir	SSML	925 subm	D/Small	-0.50	10	20	30	36	40	Sub
France	Suffren	CA	10000 std	B/Medium		99	198	297	356	396	
France	Surcouf	SS	4304 subm	C/Small	-0.50	28	57	85	102	113	Sub
France	US WW I SC	PC	85 fl	F/VSmall	-0.35	--	--	--	--	9.6	Wood
France	US WW II SC	PC	121 std	E/VSmall	-0.35	--	--	--	--	14	Wood
France	Vauquelin	DL	2480 std	C/Small	-0.10	35	71	106	127	141	GRP
France	Vigilante (ii)	PR	178 std	E/VSmall	-0.15	--	--	--	--	23	1925
France	Ville D'Oran	AMC	10172 grt	B/Medium	-0.50	41	83	124	149	165	Civ
GB	A&B class (A)	DD	1350 std	D/Small		26	52	78	94	104	
GB	A&B class (B)	DD	1360 std	D/Small		26	53	79	95	105	
GB	A Class (SS)	SS	1620 subm	C/Small	-0.50	15	30	44	53	59	Sub
GB	Abdiel	CM	2650 std	C/Small	-0.25	31	61	92	110	122	ML
GB	Accacia	DE	1200 std	D/Small	-0.15	21	41	62	74	82	1925
GB	Activity	CVE	10870 std	B/Medium	-0.35	68	136	204	245	272	MCnv
GB	Adamant	AS	12700 std	B/Medium	-0.25	87	174	261	313	348	Aux
GB	Achelous	LSE	1490 ltshp	C/Small	-0.25	23	45	68	81	90	Amphib
GB	Admiralty First Group MMS	MMS	255 std	E/VSmall		--	--	--	--	34	
GB	Admiralty Motor Launch	PG	45 std	F/VSmall	-0.35	--	--	--	--	7	Wood
GB	Admiralty R Class	DD	900 std	D/Small	-0.15	17	34	51	61	68	1925
GB	Admiralty S Class	DD	919 std	D/Small	-0.15	17	34	51	61	68	1925
GB	Admiralty S Class (1941)	DD	919 std	D/Small	-0.15	17	34	51	61	68	1925
GB	Admiralty Scott Class	DL	1605 std	C/Small	-0.15	25	50	74	89	99	1925
GB	Admiralty Second Group MMS	MMS	360 std	D/Small		11	22	32	39	43	
GB	Admiralty V&W Class	DD	1188 std	D/Small	-0.15	20	41	61	73	81	1925
GB	Admiralty V&W LRE	DD	1188 std	D/Small	-0.15	20	41	61	73	81	1925
GB	Admiralty V&W SRE (1st)	DD	1188 std	D/Small	-0.15	20	41	61	73	81	1925
GB	Admiralty V&W SRE (2nd)	DD	1188 std	D/Small	-0.15	20	41	61	73	81	1925

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
GB	Admiralty V&W Wair	DD	1188 std	D/Small	-0.15	20	41	61	73	81	1925
GB	Adventure	CM	6740 std	B/Medium	-0.25	57	114	171	205	228	ML
GB	Albatross	AVS	4800 std	C/Small	-0.25	46	91	137	164	182	Aux
GB	Alcantara	AMC	22209 grt	B/Medium	-0.65	49	98	146	176	195	1925, Civ
GB	Algerine (Steam Recip)	MS	1030 std	D/Small		22	44	65	78	87	
GB	Algerine (Steam Turbine)	MS	980 std	D/Small		21	42	63	76	84	
GB	Alynbank	AMCAA	5155 grt	C/Small	-0.50	26	53	79	95	105	Civ
GB	Amarapoora	AH	10000 grt	B/Medium	-0.25	61	123	184	221	245	1925, Civ
GB	Amazon (Amazon)	DD	1352 std	D/Small		26	52	78	94	104	
GB	Amazon (Ambuscade)	DD	1173 std	D/Small		24	48	71	86	95	
GB	Arabis	DE	1250 std	D/Small	-0.15	21	42	63	76	84	1925
GB	Archer	CVE	12150 std	B/Medium	-0.35	73	147	220	264	293	MCnv
GB	Arethusa (1st Group)	CL	5220 std	C/Small		64	129	193	231	257	
GB	Arethusa (2nd Group)	CL	5270 std	C/Small		65	129	194	232	258	
GB	Argus (1936)	CVL	14550 std	B/Medium	-0.65	45	89	134	160	178	1925, Civ
GB	Ark Royal	CV	22000 std	A/Large		168	335	503	603	670	
GB	Assurance	ATF	1045 std	D/Small		22	44	66	79	88	
GB	Athene	AKV	10890 std	B/Medium	-0.25	79	157	236	283	314	Aux
GB	Audacity	CVE	10231 std	B/Medium	-0.35	65	131	196	235	261	MCnv
GB	Avenger	CVE	10366 std	B/Medium	-0.35	66	132	197	237	263	MCnv
GB	Bachaquero	LST	6455 grt	C/Small	-0.50	31	61	92	110	122	Civ
GB	Bangor (Diesel)	MS	590 std	D/Small	-0.25	11	23	34	41	45	MStd
GB	Bangor (Steam Recip)	MS	688 std	D/Small	-0.25	13	25	38	45	50	MStd
GB	Bangor (Steam Turbine)	MS	605 std	D/Small	-0.25	12	23	35	41	46	MStd
GB	Barham (1933)	BB	31350 std	A/Large	-0.15	180	361	541	649	721	1925
GB	Barricade	YNT	730 std	D/Small	-0.25	13	26	39	47	52	Aux
GB	Battle class (1st Group)	DD	2440 std	C/Small		39	77	116	139	154	
GB	Battle class (2nd Group)	DD	2440 std	C/Small		39	77	116	139	154	
GB	Bay Class	DE	1580 std	C/Small		29	58	87	104	116	
GB	Bayonet	AN	533 std	D/Small	-0.25	11	21	32	38	42	Aux
GB	Beachy Head	AR	8580 std	B/Medium	-0.25	67	134	201	241	268	Aux

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
GB	Bittern	DE	990 std	D/Small		21	43	64	77	85	
GB	Black Swan	DE	1300 std	D/Small		25	51	76	91	101	
GB	Bridgewater & Hastings (1045 t)	DE	1045 std	D/Small		22	44	66	79	88	
GB	Bridgewater & Hastings (1025 t)	DE	1025 std	D/Small		22	44	65	78	87	
GB	Brigand	ATF	890 std	D/Small		20	40	59	71	79	
GB	Bustler	ATF	1800 std	C/Small		32	63	95	113	126	
GB	BYMS (US YMS)	MMS	251 std	E/VSmall	-0.35	--	--	--	--	22	Wood
GB	C&D Class	DD	1400 std	D/Small		27	54	80	96	107	
GB	Ca Class	DD	1830 std	C/Small		32	64	95	114	127	
GB	Caledon	CL	4180 std	C/Small	-0.15	47	94	141	169	188	1925
GB	Campania	CVE	12450 std	B/Medium	-0.35	75	149	224	268	298	MCnv
GB	Campbeltown	DD	1107 std	D/Small	-0.15	19	39	58	69	77	1925
GB	Canton	AMC	15700 grt	B/Medium	-0.50	55	111	166	199	221	Civ
GB	Captain Class (Diesel-Elec)	DE	1140 std	D/Small		23	47	70	84	93	
GB	Captain Class (Turbo-Elec)	DE	1400 std	D/Small		27	54	80	96	107	
GB	Carlisle	CL	4290 std	C/Small	-0.15	48	96	143	172	191	1925
GB	Carnarvon Castle	AMC	20063 grt	B/Medium	-0.65	46	91	137	164	182	1925, Civ
GB	Castle Class	DE	1060 std	D/Small	-0.25	17	33	50	59	66	MStd
GB	Catherine	MS	890 std	D/Small		20	40	59	71	79	
GB	Ceres	CL	4190 std	C/Small	-0.15	47	94	141	169	188	1925
GB	Ch Class	DD	1710 std	C/Small		31	61	92	110	122	
GB	Cilicia	AMC	11136 grt	B/Medium	-0.50	44	88	131	158	175	Civ
GB	Co Class	DD	1710 std	C/Small		31	61	92	110	122	
GB	Codrington (A Class Leader)	DD	1540 std	C/Small		29	57	86	103	114	
GB	Colony Class	DE	1370 std	D/Small	-0.25	20	40	59	71	79	MStd
GB	Colossus (#1)	CVL	16510 std	B/Medium		138	277	415	498	553	
GB	Colossus (#2)	CVL	12265 std	B/Medium	-0.25	85	170	255	306	340	MStd
GB	Colossus (#3r)	CVL	12000 std	B/Medium	-0.25	84	168	251	302	335	MStd
GB	Colossus (#4)	CVL	13350 std	B/Medium	-0.25	90	180	270	324	360	MStd
GB	Corfu	AMC	14170 grt	B/Medium	-0.50	52	103	155	185	206	Civ
GB	Cr Class	DD	1710 std	C/Small		31	61	92	110	122	

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
GB	D Class	CL	4850 std	C/Small	-0.15	52	104	156	187	208	1925
GB	Denny Steam Gunboat	PG	175 std	E/VSmall	--	--	--	--	--	27	
GB	Derwentdale	LSG	16750 grt	B/Medium	-0.50	58	115	173	207	230	Civ
GB	Dido (1st Group)	CL	5600 std	B/Medium		67	135	202	242	269	
GB	Dido (2nd Group)	CL	5950 std	B/Medium		70	140	210	252	280	
GB	Doresetshire	CA	10900 std	B/Medium		105	210	314	377	419	
GB	Dragonfly	PR	625 std	D/Small		16	31	47	56	62	
GB	E Class Emerald	CL	7550 std	B/Medium	-0.15	70	140	209	251	279	1925
GB	E Class Enterprise	CL	7580 std	B/Medium	-0.15	70	140	210	252	280	1925
GB	E&F Class	DD	1405 std	D/Small		27	54	80	96	107	
GB	Eagle (1937)	CV	22600 std	A/Large	-0.15	145	290	434	521	579	1925
GB	Effingham (1939)	CL	9860 std	B/Medium	-0.15	83	167	250	300	333	1925
GB	Egret	DE	1250 std	D/Small		25	50	74	89	99	
GB	Elco 70' MGB	PG	32 std	F/VSmall	-0.35	--	--	--	--	5.6	Wood
GB	Elco 77' Type	PT	46 std	F/VSmall	-0.35	--	--	--	--	7.1	Wood
GB	Empire MacAlpine (7950 grt)	CVE	7950 grt	B/Medium	-0.50	35	70	105	126	140	Civ
GB	Empire MacAlpine (8250 grt)	CVE	8250 grt	B/Medium	-0.50	36	72	108	130	144	Civ
GB	Empire Mackay (Empire MacCabe)	CVE	9249 grt	B/Medium	-0.50	39	78	116	140	155	Civ
GB	Empire Mackay (Empire MacColl)	CVE	9133 grt	B/Medium	-0.50	39	77	116	139	154	Civ
GB	Empire Mackay (Empire Mackay)	CVE	8980 grt	B/Medium	-0.50	38	76	114	137	152	Civ
GB	Empire Mackay (Empire MacMahon)	CVE	8856 grt	B/Medium	-0.50	38	76	113	136	151	Civ
GB	Envoy	ATF	1332 std	D/Small		26	52	77	93	103	
GB	Erebus	BM	7720 std	B/Medium	-0.15	71	142	212	255	283	1925
GB	Ex-Brazilian H Class	DD	1350 std	D/Small		26	52	78	94	104	
GB	Ex-Chinese KUAI 1 class	PT	14 std	G/VSmall	-0.35	--	--	--	--	3.2	Wood
GB	Ex-Turkish	SS	624 subm	D/Small	-0.50	8	16	23	28	31	Sub
GB	Ex-Turkish I Class	DD	1360 std	D/Small		26	53	79	95	105	
GB	Exmouth (E Class Leader)	DD	1495 std	D/Small		28	56	83	100	111	
GB	Fairmile A Type	PG	66 std	F/VSmall	-0.35	--	--	--	--	9	Wood
GB	Fairmile B Type	PG	75 std	F/VSmall	-0.35	--	--	--	--	9.8	Wood
GB	Fairmile C Type	PG	69 std	F/VSmall	-0.35	--	--	--	--	9.3	Wood

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
GB	Fairmile D Type MGB	PG	102 std	E/VSmall	-0.35	--	--	--	--	12	Wood
GB	Fairmile D Type MTB	PT	102 std	E/VSmall	-0.35	--	--	--	--	12	Wood
GB	Falcon	PR	372 std	D/Small		11	22	33	40	44	
GB	Falmouth	DE	1060 std	D/Small		22	45	67	80	89	
GB	Fastnet	YNT	444 std	D/Small		13	25	38	45	50	
GB	Faulknor (F Class Leader)	DD	1495 std	D/Small		28	56	83	100	111	
GB	Fiji	CL	8525 std	B/Medium		89	178	267	320	356	
GB	Flower class	DE	1110 std	D/Small	-0.25	17	35	52	62	69	MStd
GB	Forbisher (1942)	CL	9860 std	B/Medium	-0.15	83	167	250	300	333	1925
GB	Foylebank	AMCAA	5582 grt	C/Small	-0.50	28	56	83	100	111	Civ
GB	Furious (1939)	CV	22450 std	A/Large	-0.15	144	289	433	519	577	1925
GB	G, H, I class (G)	DD	1350 std	D/Small		26	52	78	94	104	
GB	G, H, I class (H)	DD	1340 std	D/Small		26	52	78	94	104	
GB	G, H, I class (I)	DD	1370 std	D/Small		26	53	79	95	105	
GB	Glen Class	LSI	9800 grt	B/Medium	-0.25	61	121	182	218	242	Amphib
GB	Glorious (1928)	CV	22000 std	A/Large	-0.15	142	285	427	512	569	1925
GB	Grenville (G Class Leader)	DD	1456 std	D/Small		27	55	82	98	109	
GB	Grimsby	DE	990 std	D/Small		21	43	64	77	85	
GB	H class	SS	510 subm	D/Small	-0.65	5	10	14	17	19	1925, Sub
GB	Halcyon	MS	835 std	D/Small		19	38	57	68	76	
GB	Ham class	MS	120 std	E/VSmall	-0.25	--	--	--	--	16	
GB	Hardy (H Class Leader)	DD	1456 std	D/Small		27	55	82	98	109	
GB	Hartland	DE	1975 std	C/Small		34	67	101	121	134	
GB	Hawkins	CL	9860 std	B/Medium	-0.15	83	167	250	300	333	1925
GB	Hawkins (1940)	CA	9860 std	B/Medium	-0.15	83	167	250	300	333	1925
GB	Hector	AMC	11198 grt	B/Medium	-0.65	31	62	92	111	123	1925, Civ
GB	Hermes	CVL	10850 std	B/Medium	-0.15	89	178	266	320	355	1925
GB	Hood (1939)	BC	42100 std	A/Large	-0.15	219	439	658	789	877	1925
GB	Hunt Type 1	DE	1000 std	D/Small		21	43	64	77	85	
GB	Hunt Type 2	DE	1050 std	D/Small		22	44	66	79	88	
GB	Hunt Type 3	DE	1050 std	D/Small		22	44	66	79	88	

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
GB	Hunt Type 4	DE	1175 std	D/Small		24	48	71	86	95	
GB	Hunt MS	MS	800 std	D/Small	-0.15	16	31	47	56	62	1925
GB	Illustrious	CV	23000 std	A/Large		173	345	518	621	690	
GB	Implacable	CV	27000 std	A/Large		192	384	576	691	768	
GB	Improved H Class	SS	510 subm	D/Small	-0.65	5	10	14	17	19	1925, Sub
GB	Indomitable	CV	23000 std	A/Large		173	345	518	621	690	
GB	Inglefield (I Class Leader)	DD	1544 std	C/Small		29	57	86	103	114	
GB	Insect	PR	625 std	D/Small	-0.15	13	27	40	48	53	1925
GB	Invincible	BC	48400 std	A/Large	-0.15	241	482	722	867	963	1925
GB	J, K, N classes	DD	1690 std	C/Small		30	61	91	109	121	
GB	Jervis Bay	AMC	14200 grt	B/Medium	-0.65	36	72	108	130	144	1925, Civ
GB	Kanimbla (AMC)	AMC	10985 grt	B/Medium	-0.50	44	87	131	157	174	Civ
GB	Karanja	LSI(L)	9890 grt	B/Medium	-0.50	41	81	122	146	162	Civ
GB	Keith (B Class Leader)	DD	1400 std	D/Small		27	54	80	96	107	
GB	Kent	CA	10900 std	B/Medium	-0.15	89	178	267	320	356	1925
GB	Keren	LSI(L)	9890 grt	B/Medium	-0.50	41	81	122	146	162	Civ
GB	Kil Class	PC	640 std	D/Small		16	32	47	57	63	
GB	King George V	BB	36730 std	A/Large		236	472	707	849	943	
GB	Kingfisher	PC	530 std	D/Small		14	28	42	50	56	
GB	L 9 Class	SS	1088 subm	D/Small	-0.65	8	16	24	29	32	1925, Sub
GB	L Class (DD)	DD	1920 std	C/Small		33	66	99	119	132	
GB	L class (SS)	SS	2074 subm	C/Small	-0.65	12	25	37	44	49	1925, sub
GB	LCA	LCA	9 ltshp	G/VSmall	-0.25	--	--	--	--	3	Amphib
GB	LCC(GB)	LCC	75 std	F/VSmall	-0.25	--	--	--	--	11	Amphib
GB	LCF(2)(1)	LCF	455 std	D/Small	-0.25	10	19	29	34	38	Amphib
GB	LCF(3)	LCF	420 std	D/Small	-0.25	9	18	27	32	36	Amphib
GB	LCF(3)(1)	LCF	515 std	D/Small	-0.25	10	21	31	37	41	Amphib
GB	LCF(3)(2)	LCF	515 std	D/Small	-0.25	10	21	31	37	41	Amphib
GB	LCF(4)	LCF	510 fl	D/Small	-0.25	9	19	28	33	37	Amphib
GB	LCG(3)	LCG	500 std	D/Small	-0.25	10	20	30	36	40	Amphib
GB	LCG(L)(3)	LCG	500 std	D/Small	-0.25	10	20	30	36	40	Amphib

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
GB	LCG(L)(4)	LCG	570 std	D/Small	-0.25	11	22	33	40	44	Amphib
GB	LCG(M)(1)	LCG	300 std	E/VSmall	-0.25	--	--	--	--	29	Amphib
GB	LCG(M)(2)	LCG	308 std	E/VSmall	-0.25	--	--	--	--	29	Amphib
GB	LCI(L)	LCI	216 ltshp	E/VSmall	-0.25	--	--	--	--	25	Amphib
GB	LCM(1)	LCM	21 std	F/VSmall	-0.25	--	--	--	--	4.9	Amphib
GB	LCP (R)	LCP	8 fl	G/VSmall	-0.25	--	--	--	--	2.3	Amphib
GB	LCP(L)	LCP	8 fl	G/VSmall	-0.25	--	--	--	--	2.3	Amphib
GB	LCS(L)(1)	LCS	20 ltshp	F/VSmall	-0.25	--	--	--	--	5.1	Amphib
GB	LCS(L)(2)	LCS	84 ltshp	E/VSmall	-0.25	--	--	--	--	13	Amphib
GB	LCS(L)(3)	LCS	227 ltshp	E/VSmall	-0.25	--	--	--	--	26	Amphib
GB	LCS(M)	LCS	13 ltshp	G/VSmall	-0.25	--	--	--	--	3.8	Amphib
GB	LCT(1)	LCT	372 ltshp	D/Small	-0.25	9	18	27	32	36	Amphib
GB	LCT(2)	LCT	460 std	D/Small	-0.25	10	19	29	34	38	Amphib
GB	LCT(3)	LCT	640 std	D/Small	-0.25	12	24	35	42	47	Amphib
GB	LCT(4)	LCT	640 std	D/Small	-0.25	12	24	35	42	47	Amphib
GB	LCT(R)(3)	LCT	420 std	D/Small	-0.25	9	18	27	32	36	Amphib
GB	Leander (Achilles)	CL	7030 std	B/Medium		78	157	235	282	313	
GB	Leander (Ajax)	CL	6985 std	B/Medium		78	156	234	281	312	
GB	Leander (Leander)	CL	7270 std	B/Medium		80	160	240	288	320	
GB	Leander (Neptune)	CL	7175 std	B/Medium		79	159	238	285	317	
GB	Leander (Orion)	CL	7215 std	B/Medium		80	159	239	286	318	
GB	Ley	MS	123 std	E/VSmall	-0.10	--	--	--	--	19	GRP
GB	Lion I	BB	40550 std	A/Large		252	504	755	906	1007	
GB	Lion II	BB	50000 std	A/Large		290	579	869	1042	1158	
GB	Loch Class	DE	1435 std	D/Small	-0.25	20	41	61	73	81	MStd
GB	London (1941)	CA	11015 std	B/Medium	-0.15	90	180	269	323	359	1925
GB	London (except London)	CA	9830 std	B/Medium	-0.15	83	167	250	300	333	1925
GB	LST(2)	LST	1468 std	D/Small	-0.25	21	42	62	75	83	Amphib
GB	LST(3)	LST	2300 std	C/Small	-0.25	28	56	83	100	111	Amphib
GB	M Class	DD	1920 std	C/Small		33	66	99	119	132	
GB	MA/SB 1 Type	PG	19 std	G/VSmall	-0.35	--	--	--	--	3.9	Wood

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
GB	MA/SB 22 Type	PG	23 std	F/VSmall	-0.35	--	--	--	--	4.5	Wood
GB	Maidstone	AS	8900 std	B/Medium	-0.25	69	138	206	248	275	Aux
GB	Maine	AH	10100 grt	B/Medium	-0.65	29	58	86	104	115	1925, Civ
GB	Manela	AVS	8427 grt	B/Medium	-0.75	18	37	55	66	73	1925, Civ
GB	Malaya (1937)	BB	31465 std	A/Large	-0.15	181	362	542	651	723	1925
GB	Malta	CV	46900 std	A/Large		277	555	832	998	1109	
GB	Medway	AS	14650 std	B/Medium	-0.25	96	192	287	345	383	Aux
GB	MGB 6 Type	PG	30 std	F/VSmall	-0.35	--	--	--	--	5.3	Wood
GB	MGB 40 Type	PG	24 std	F/VSmall	-0.35	--	--	--	--	4.6	Wood
GB	MGB 47 Type	PG	35 std	F/VSmall	-0.35	--	--	--	--	5.9	Wood
GB	MGB 312 Type	PG	69 std	F/VSmall		--	--	--	--	14	
GB	MGB 502 Type	PG	80 std	F/VSmall	-0.35	--	--	--	--	10	Wood
GB	MGB 2001	PG	80 std	F/VSmall	-0.35	--	--	--	--	10	Wood
GB	MGB/MTB 511 Type	PG	93 std	E/VSmall	-0.35	--	--	--	--	11	Wood
GB	Military Trawler	PC	590 std	D/Small	-0.35	10	20	29	35	39	MCnv
GB	Modified Black Swan	DE	1475 std	D/Small		28	55	83	99	110	
GB	Modified Flower Class	DE	976 std	D/Small	-0.25	16	32	47	57	63	MStd
GB	Modified Hastings	DE	1190 std	D/Small		24	48	72	86	96	
GB	Modified Town Class	CL	10260 std	B/Medium		101	202	302	363	403	
GB	MTB 1 Type	PT	18 std	G/VSmall	-0.35	--	--	--	--	3.8	Wood
GB	MTB 20 Type	PT	32 std	F/VSmall	-0.35	--	--	--	--	5.6	Wood
GB	MTB 24 Type	PT	37 std	F/VSmall	-0.35	--	--	--	--	6.1	Wood
GB	MTB 31 Type	PT	35 std	F/VSmall	-0.35	--	--	--	--	5.9	Wood
GB	MTB 41 Type	PT	37 std	F/VSmall	-0.35	--	--	--	--	6.1	Wood
GB	MTB 71 Type	PT	25 std	F/VSmall	-0.35	--	--	--	--	4.7	Wood
GB	MTB 259-268 (Elco 70' MTB)	PT	32 std	F/VSmall	-0.35	--	--	--	--	5.6	Wood
GB	MTB 332 Type	PT	22 std	F/VSmall	-0.35	--	--	--	--	4.3	Wood
GB	MTB 380 Type	PT	35 std	F/VSmall	-0.35	--	--	--	--	5.9	Wood
GB	MTB 412 Type	PT	37 std	F/VSmall	-0.35	--	--	--	--	6.1	Wood
GB	MTB 424 Type	PT	39 std	F/VSmall	-0.35	--	--	--	--	6.4	Wood
GB	MTB 523 Type	PT	35 std	F/VSmall	-0.35	--	--	--	--	5.9	Wood

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
GB	MTB 601 Type	PT	102 std	E/VSmall	-0.35	--	--	--	--	12	Wood
GB	Nairana (Nairana)	CVE	13825 std	B/Medium	-0.35	80	160	239	287	319	MCnv
GB	Nairana (Vindex)	CVE	13445 std	B/Medium	-0.35	78	157	235	282	313	MCnv
GB	Nelson	BB	33413 std	A/Large	-0.15	188	376	564	677	752	1925
GB	Nimble	ATF	890 std	D/Small		20	40	59	71	79	
GB	O Class	DD	1610 std	C/Small		29	59	88	105	117	
GB	Oberon	SS	1831 subm	C/Small	-0.50	16	32	48	58	64	Sub
GB	Odin	SS	2038 subm	C/Small	-0.50	17	34	51	61	68	Sub
GB	Oxfordshire	AH	10500 grt	B/Medium	-0.65	30	59	89	106	118	1925, Civ
GB	Oxley	SS	1872 subm	C/Small	-0.50	16	33	49	59	65	Sub
GB	P Class	DD	1640 std	C/Small		30	60	89	107	119	
GB	P&R Class	SS	2040 subm	C/Small	-0.50	17	35	52	62	69	Sub
GB	Palomares	AMCAA	1896 grt	D/Small	-0.50	14	27	41	49	54	Civ
GB	PC Boat	PC	694 std	D/Small	-0.15	14	29	43	51	57	1925
GB	Pegasus	AVS	6090 std	B/Medium	-0.50	36	71	107	128	142	1925, MCnv
GB	Pennland	AP	16332 grt	B/Medium	-0.65	40	80	119	143	159	1925, Civ
GB	Peterel	PR	310 std	E/VSmall		--	--	--	--	39	
GB	Porpoise	SSML	2117 subm	C/Small	-0.50	18	35	53	63	70	Sub
GB	Pretoria Castle	CVE	19650 std	A/Large	-0.35	101	202	303	364	404	MCnv
GB	Prince Robert	AMCAA	5676 grt	C/Small	-0.50	28	56	84	101	112	Civ
GB	Q Class	DD	1725 std	C/Small		31	62	92	111	123	
GB	Queen Elizabeth (1939)	BB	31585 std	A/Large	-0.15	181	362	543	652	724	1925
GB	R Class	DD	1725 std	C/Small		31	62	92	111	123	
GB	Rapana	CVE	8000 grt	B/Medium	-0.50	35	71	106	127	141	Civ
GB	Rawalpindi	AMC	16697 grt	B/Medium	-0.65	40	81	121	145	161	1925, Civ
GB	Renown (1939)	BC	33725 std	A/Large	-0.15	189	379	568	681	757	1925
GB	Repulse (1939)	BC	34800 std	A/Large	-0.15	193	387	580	696	773	1925
GB	Resolve	ATO	1400 std	D/Small	-0.15	23	46	68	82	91	1925
GB	Resource	AR	12300 std	B/Medium	-0.25	85	171	256	307	341	Aux
GB	River Class	SS	2723 subm	C/Small	-0.50	21	42	62	75	83	Sub
GB	River Class (Late RCN built)	DE	1460 std	D/Small	-0.25	21	41	62	74	82	MStd

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
GB	River Class (RN 1st Group)	DE	1370 std	D/Small	-0.25	20	40	59	71	79	MStd
GB	River Class (RN 2nd Group)	DE	1370 std	D/Small	-0.25	20	40	59	71	79	MStd
GB	Roberts	BM	8536 std	B/Medium		89	178	267	320	356	
GB	Robin	PR	226 std	E/VSmall		--	--	--	--	32	
GB	Royal Sovereign (1939)	BB	29500 std	A/Large	-0.15	173	346	519	623	692	1925
GB	Royal Sovereign (1939) (Ramilles)	BB	30300 std	A/Large	-0.15	176	353	529	635	705	1925
GB	Royal Ulsterman	LSI(H)	3244 grt	C/Small	-0.50	19	39	58	69	77	Civ
GB	Ruler	CVE	10200 std	B/Medium	-0.35	65	131	196	235	261	MCnv
GB	S Class	DD	1710 std	C/Small		31	61	92	110	122	
GB	S Class (Group 1)	SS	927 subm	D/Small	-0.50	10	20	30	36	40	Sub
GB	S Class (Group 2)	SS	960 subm	D/Small	-0.50	10	21	31	37	41	Sub
GB	S Class (Group 3/1941)	SS	842 subm	D/Small	-0.50	10	19	29	34	38	Sub
GB	S Class (Group 3/1942-3)	SS	990 subm	D/Small	-0.50	11	21	32	38	42	Sub
GB	Saint	ATO	600 std	D/Small	-0.15	13	26	39	47	52	1925
GB	Sandpiper	PR	185 std	E/VSmall		--	--	--	--	28	
GB	Shoreham	DE	1105 std	D/Small		23	46	68	82	91	
GB	Shakespeare	DD	1480 std	D/Small	-0.15	24	47	71	85	94	1925
GB	Springbank	AMCAA	5675 grt	C/Small	-0.50	28	56	84	101	112	Civ
GB	Swiftsure	CL	8000 std	B/Medium		85	171	256	307	341	
GB	T Class	DD	1802 std	C/Small		32	63	95	113	126	
GB	T Class (1st Group)	SS	1573 subm	C/Small	-0.50	15	29	44	52	58	Sub
GB	T Class (2nd Group)	SS	1571 subm	C/Small	-0.50	15	29	44	52	58	Sub
GB	Tern	PR	262 std	E/VSmall		--	--	--	--	35	
GB	Tiger	CL	8885 std	B/Medium		92	183	275	329	366	
GB	Ton	MS	360 std	D/Small	-0.25	8	16	24	29	32	Alum
GB	Town (1st Group)	CL	9100 std	B/Medium		93	186	279	335	372	
GB	Town (2nd Group)	CL	9400 std	B/Medium		95	190	285	342	380	
GB	Town Class (1st/Lewes)	DD	1020 std	D/Small	-0.15	18	37	55	66	73	1925
GB	Town Class (2nd/Caldwel)	DD	1090 std	D/Small	-0.15	19	39	58	69	77	1925
GB	Town Class (3rd/Bath)	DD	1060 std	D/Small	-0.15	19	38	56	68	75	1925
GB	Town Class (4th/Belmont)	DD	1190 std	D/Small	-0.15	20	41	61	73	81	1925

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
GB	Tracker	CVE	10200 std	B/Medium	-0.35	65	131	196	235	261	MCnv
GB	Tribal	DD	1883 std	C/Small		33	65	98	117	130	
GB	Tribal (Late RCN Units)	DD	1927 std	C/Small		33	66	99	119	132	
GB	Tyne	AD	11000 std	B/Medium	-0.25	79	158	237	284	316	Aux
GB	Tynwald	AMCAA	2376 grt	C/Small	-0.50	16	32	47	57	63	Civ
GB	Type 14 Blackwood	DE	1456 std	D/Small		27	55	82	98	109	
GB	U Class (DD)	DD	1802 std	C/Small		32	63	95	113	126	
GB	U Class (SS)	SS	730 subm	D/Small	-0.50	9	18	26	32	35	Sub
GB	Uganda	CL	8875 std	B/Medium		91	183	274	329	365	
GB	Ulster Queen	AMCAA	3791 grt	C/Small	-0.50	22	43	65	77	86	Civ
GB	Unicorn	CVL	16510 std	B/Medium		138	277	415	498	553	
GB	US LCM(3)	LCM	22 ltshp	F/VSmall	-0.25	--	--	--	--	5.4	Amphib
GB	US LSD	LSD	4270 std	C/Small	-0.25	42	84	126	151	168	Amphib
GB	V Class (DD)	DD	1802 std	C/Small		32	63	95	113	126	
GB	V Class (SS)	SS	740 subm	D/Small	-0.50	9	18	26	32	35	Sub
GB	Valiant (1939)	BB	31585 std	A/Large	-0.15	181	362	543	652	724	1925
GB	Vanguard	BB	44500 std	A/Large		268	536	803	964	1071	
GB	Victorious (1958)	CV	30530 std	A/Large		208	417	625	750	833	
GB	Voltaire	AMC	13245 grt	B/Medium	-0.65	35	69	104	124	138	1925, Civ
GB	Vosper 73' MTB	PT	35 std	F/VSmall	-0.35	--	--	--	--	5.9	Wood
GB	W Class	DD	1802 std	C/Small		32	63	95	113	126	
GB	Warspite (1937)	BB	31315 std	A/Large	-0.15	180	360	540	648	720	1925
GB	Weapon class	DD	1980 std	C/Small	-0.15	29	57	86	103	114	ALS
GB	Westernland	AP	16500 grt	B/Medium	-0.65	40	80	120	144	160	1925, Civ
GB	Woolwich	AD	8750 std	B/Medium	-0.25	68	136	204	245	272	Aux
GB	X1 class	SS	3600 subm	C/Small	-0.75	13	25	38	45	50	1925, Sub
GB	York (Exeter)	CA	8390 std	B/Medium		88	176	264	317	352	
GB	York (York)	CA	8250 std	B/Medium		87	174	261	313	348	
GB	Z Class	DD	1830 std	C/Small		32	64	95	114	127	
Generic	Large Merchant	Merch	20000 grt	B/Medium	-0.50	65	130	194	233	259	Civ
Generic	Medium Merchant	Merch	10000 grt	B/Medium	-0.50	41	82	122	147	163	Civ

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Generic	Small Merchant	Merch	5000 grt	C/Small	-0.50	26	52	77	93	103	Civ
Generic	Tanker	AO	5422 std	C/Small	-0.40	40	79	119	142	158	1925, Aux
Generic	Transport	AP	8400 std	B/Medium	-0.40	53	106	158	190	211	1925, Aux
Germany	Adm. Graf Spee	CB	12777 std	B/Medium		117	233	350	419	466	
Germany	Adm. Hipper	CA	14050 std	B/Medium		124	248	372	446	496	
Germany	Adm. Scheer	CB	11550 std	B/Medium		109	218	327	392	436	
Germany	AFP Type C	LCG	290 std	E/VSmall	-0.25	--	--	--	--	28	Amphib
Germany	AFP Type D	LCG	380 std	D/Small	-0.25	9	17	26	31	34	Amphib
Germany	Alsterufer	AK	2729 grt	C/Small	-0.50	17	35	52	62	69	Civ
Germany	Ariadne (1942)	CLAA	4560 std	C/Small	-0.25	44	88	132	158	176	1925, Special-10%
Germany	Atlantis	AMC	7862 grt	B/Medium	-0.50	35	70	104	125	139	Civ
Germany	Bismarck	BB	41676 std	A/Large		256	513	769	923	1025	
Germany	Bremse	CM	1435 std	D/Small	-0.25	20	41	61	73	81	ML
Germany	Brummer	CM	2410 std	C/Small	-0.25	29	58	86	104	115	ML
Germany	Bulgaria	(A)CM	1108 std	D/Small	-0.60	9	18	27	32	36	1895, MCnv
Germany	Cobra	(A)CM	2131 grt	C/Small	-0.50	15	29	44	52	58	Civ
Germany	Deutschland (Lutzow)	CB	10600 std	B/Medium		103	206	308	370	411	
Germany	Drache	CM	2084 std	C/Small	-0.25	26	52	78	94	104	Aux
Germany	Emden	CL	5600 std	B/Medium		67	135	202	242	269	
Germany	Ex-Norwegian Odin	TB	597 std	D/Small		15	30	45	54	60	
Germany	F1	DE	712 std	D/Small		17	34	51	61	68	
Germany	Gneisenau (Rearmed)	BC	31847 std	A/Large		214	429	643	771	857	
Germany	Graf Zeppelin	CV	27500 std	A/Large		194	389	583	699	777	
Germany	Grille	CM	2560 std	C/Small	-0.25	30	60	90	108	120	ML
Germany	H Class	BB	56440 std	A/Large		314	628	941	1130	1255	
Germany	K 1-3	PG	1200 std	D/Small		24	48	72	86	96	
Germany	K 4	PG	1620 std	C/Small		30	59	89	106	118	
Germany	Kanonenboot Type 1938	PG	1300 std	D/Small		25	51	76	91	101	
Germany	KFK	PC	112 std	E/VSmall	-0.50	--	--	--	--	9.9	Civ
Germany	Komet	AMC	3287 grt	C/Small	-0.50	20	39	59	70	78	Civ
Germany	Königsberg	CL	6650 std	B/Medium		75	151	226	271	301	

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Germany	Kormoran	AMC	8736 grt	B/Medium	-0.50	37	75	112	134	149	Civ
Germany	Kreuzer P	CB	26100 std	A/Large		188	375	563	675	750	
Germany	KUJ	PC	830 std	D/Small		19	38	56	68	75	
Germany	LAT	PG	630 std	D/Small	-0.50	8	16	23	28	31	Civ
Germany	Leipzig	CL	6310 std	B/Medium		73	146	218	262	291	
Germany	LS 1 Group	PT	12 std	G/VSmall	-0.35	--	--	--	--	2.9	Wood
Germany	M 1 (1935/1939 (Mob) Type)	MS	775 std	D/Small		18	36	54	65	72	
Germany	M 261 (Type 1940)	MS	637 std	D/Small		16	32	47	57	63	
Germany	M 551 (Ex-Dutch)	MS	450 std	D/Small	-0.35	8	17	25	30	33	Wood
Germany	M 601 (Type 1943)	MS	668 std	D/Small		16	33	49	59	65	
Germany	M Class	CL	7800 std	B/Medium		84	168	251	302	335	
Germany	M.A.1 (Ex-Danish)	MS	274 std	E/VSmall		--	--	--	--	36	
Germany	MAL I	PG	140 fl	E/VSmall	-0.25	--	--	--	--	15	Amphib
Germany	MAL Ia	PG	146 fl	E/VSmall	-0.25	--	--	--	--	16	Amphib
Germany	MAL II	PG	225 std	E/VSmall	-0.25	--	--	--	--	24	Amphib
Germany	MFP 1-626 (Types A,B,C)	LCM	200 std	E/VSmall	-0.25	--	--	--	--	22	Amphib
Germany	MFP 627-2000 (Type D)	LCM	280 std	E/VSmall	-0.25	--	--	--	--	27	Amphib
Germany	Michel	AMC	4740 grt	C/Small	-0.50	25	50	74	89	99	Civ
Germany	MNL	AK	154 std	E/VSmall	-0.50	--	--	--	--	12	Civ
Germany	MRS 11	(A)MS	9900 std	B/Medium	-0.35	64	128	192	230	256	MCnv
Germany	Niobe (1942)	CLAA	3512 std	C/Small	-0.35	32	64	96	115	128	1925, Special-10%
Germany	Nürnberg	CL	7150 std	B/Medium		79	158	237	284	316	
Germany	Nymphe (1942)	CLAA	2656 std	C/Small	-0.25	31	62	92	111	123	1925, Special-10%
Germany	O Class	BC	32300 std	A/Large		216	433	649	779	865	
Germany	Odenwald	AF	5000 std	C/Small	-0.50	31	63	94	113	125	Civ
Germany	Orion	AMC	7021 grt	C/Small	-0.50	32	65	97	116	129	Civ
Germany	PA Class	DE	930 std	D/Small		20	41	61	73	81	
Germany	Pinguin	AMC	7786 grt	B/Medium	-0.50	35	69	104	124	138	Civ
Germany	Prinz Eugen	CA	14680 std	B/Medium		128	256	383	460	511	
Germany	Project Elbe (SS Potsdam)	CV	17528 grt	B/Medium	-0.35	77	155	232	278	309	MCnv
Germany	Project I (SS Europa)	CV	49746 grt	A/Large	-0.35	155	310	464	557	619	MCnv

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Germany	Project II (De Grasse)	CV	11400 std	B/Medium		108	216	324	389	432	
Germany	Project Jade (SS Gneisenau)	CV	18160 grt	B/Medium	-0.35	79	158	237	284	316	MCnv
Germany	Project Weser (Seydlitz)	CV	17139 std	B/Medium		142	284	425	510	567	
Germany	R 1 Group	MMS	60 std	F/VSmall		--	--	--	--	13	
Germany	R 17 Group	MMS	115 std	E/VSmall		--	--	--	--	20	
Germany	R 25 Group	MMS	110 std	E/VSmall	-0.35	--	--	--	--	13	Wood
Germany	R 41 Group	MMS	125 std	E/VSmall	-0.35	--	--	--	--	14	Wood
Germany	R 130 Group	MMS	150 std	E/VSmall	-0.35	--	--	--	--	16	Wood
Germany	R 151 Group	MMS	125 std	E/VSmall	-0.35	--	--	--	--	14	Wood
Germany	R 218 Group	MMS	140 std	E/VSmall	-0.35	--	--	--	--	15	Wood
Germany	R 301 Group 160	MMS	160 std	E/VSmall	-0.35	--	--	--	--	16	Wood
Germany	R 401 Group	MMS	140 std	E/VSmall	-0.35	--	--	--	--	15	Wood
Germany	Roland	(A)CM	2436 grt	C/Small	-0.50	16	32	48	58	64	Civ
Germany	S 2 Group	PT	46 std	F/VSmall	-0.35	--	--	--	--	7.1	Wood
Germany	S 6 Group	PT	60 std	F/VSmall	-0.35	--	--	--	--	8.5	Wood
Germany	S 10 Group	PT	76 std	F/VSmall	-0.35	--	--	--	--	9.9	Wood
Germany	S 14 Group	PT	92 std	E/VSmall	-0.35	--	--	--	--	11	Wood
Germany	S 18 Group	PT	92 std	E/VSmall	-0.35	--	--	--	--	11	Wood
Germany	S 26 Group	PT	26 std	F/VSmall	-0.35	--	--	--	--	4.9	Wood
Germany	S 30 Group	PT	80 std	F/VSmall	-0.35	--	--	--	--	10	Wood
Germany	S 38 Group	PT	92 std	E/VSmall	-0.35	--	--	--	--	11	Wood
Germany	S 100 Group	PT	100 std	E/VSmall	-0.35	--	--	--	--	12	Wood
Germany	S 170 Group	PT	100 std	E/VSmall	-0.35	--	--	--	--	12	Wood
Germany	S 701 Group	PT	107 std	E/VSmall	-0.35	--	--	--	--	12	Wood
Germany	Saar	AS	2710 std	C/Small	-0.25	31	62	93	112	124	Aux
Germany	SAT	PG	980 std	D/Small	-0.50	11	21	32	38	42	Civ
Germany	Scharnhorst	CB	31847 std	A/Large		214	429	643	771	857	
Germany	Schlesien (1939)	BB	12100 std	B/Medium	-0.15	96	191	287	344	382	1925
Germany	SF	LCAA	200 std	E/VSmall	-0.25	--	--	--	--	22	Amphib
Germany	Sp.1	CL	4662 std	C/Small		60	119	179	214	238	
Germany	Sperrbrecher	(A)MS	9800 std	B/Medium		98	195	293	351	390	Civ, Special +50%

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Germany	TA 9	TB	610 std	D/Small		15	31	46	55	61	
Germany	TF.1-8 (Type 1942)	YP	381 std	D/Small		11	23	34	41	45	
Germany	TF.9-24 (Type 1943)	YP	380 std	D/Small		11	23	34	41	45	
Germany	Thor	AMC	3862 grt	C/Small	-0.50	22	44	65	78	87	Civ
Germany	Tirpitz	BB	42900 std	A/Large		261	523	784	941	1045	
Germany	Type 1916	MS	515 std	D/Small	-0.15	12	24	35	42	47	1925
Germany	Type 1923 (1931)	TB	924 std	D/Small	-0.15	17	35	52	62	69	1925
Germany	Type 1924	TB	933 std	D/Small	-0.15	17	35	52	62	69	1925
Germany	Type 1934 (Maass)	DD	2232 std	C/Small		37	73	110	131	146	
Germany	Type 1935 TB	TB	844 std	D/Small		19	38	57	68	76	
Germany	Type 1936 (Roeder)	DD	2411 std	C/Small		38	77	115	138	153	
Germany	Type 1936A (Mob)	DD	2630 std	C/Small		41	81	122	146	162	
Germany	Type 1936A (Narvik)	DD	2603 std	C/Small		40	81	121	145	161	
Germany	Type 1936B	DD	2527 std	C/Small		40	79	119	142	158	
Germany	Type 1936C	DD	2574 std	C/Small		40	80	120	144	160	
Germany	Type 1937 TB	TB	853 std	D/Small		19	39	58	69	77	
Germany	Type 1939 TB	TB	1294 std	D/Small		25	51	76	91	101	
Germany	Type 1940 TB	TB	1930 std	C/Small		33	66	99	119	132	
Germany	Type 1941 TB	TB	1493 std	D/Small		28	56	83	100	111	
Germany	Type 1942C	DD	2818 std	C/Small		43	85	128	153	170	
Germany	Type 1944 TB	TB	1418 std	D/Small		27	54	81	97	108	
Germany	Type 1945	DD	2574 std	C/Small		40	80	120	144	160	
Germany	Type I A	SSC	983 subm	D/Small	-0.50	11	21	32	38	42	Sub
Germany	Type II A	SSC	303 subm	E/VSmall	-0.50	5	10	14	17	19	Sub
Germany	Type II B	SSC	329 subm	E/VSmall	-0.50	5	10	15	18	20	Sub
Germany	Type II D	SSC	364 subm	D/Small	-0.50	6	11	17	20	22	Sub
Germany	Type II C	SSC	336 subm	E/VSmall	-0.50	5	11	16	19	21	Sub
Germany	Type VII A	SS	745 subm	D/Small	-0.50	9	18	26	32	35	Sub
Germany	Type VII B	SS	857 subm	D/Small	-0.50	10	19	29	34	38	Sub
Germany	Type VII C	SS	865 subm	D/Small	-0.50	10	20	29	35	39	Sub
Germany	Type VII C/41	SS	860 subm	D/Small	-0.50	10	20	29	35	39	Sub

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Germany	Type VII C/42	SS	860 subm	D/Small	-0.50	10	20	29	35	39	Sub
Germany	Type VII D	SS	1099 subm	D/Small	-0.50	11	23	34	41	45	Sub
Germany	Type VII F	SS	1181 subm	D/Small	-0.50	12	24	36	43	48	Sub
Germany	Type IX A	SS	1153 subm	D/Small	-0.50	12	24	35	42	47	Sub
Germany	Type IX B	SS	1178 subm	D/Small	-0.50	12	24	36	43	48	Sub
Germany	Type IX C	SS	1232 subm	D/Small	-0.50	12	25	37	44	49	Sub
Germany	Type IX C/40	SS	1257 subm	D/Small	-0.50	13	25	38	45	50	Sub
Germany	Type IX D/42	SS	1804 subm	C/Small	-0.50	16	32	47	57	63	Sub
Germany	Type IX D1	SS	1799 subm	C/Small	-0.50	16	32	47	57	63	Sub
Germany	Type IX D2	SS	1804 subm	C/Small	-0.50	16	32	47	57	63	Sub
Germany	Type XB	SS	2177 subm	C/Small	-0.50	18	36	54	65	72	Sub
Germany	Type XIV	SS	1932 subm	C/Small	-0.50	17	33	50	59	66	Sub
Germany	Type XVII B	SSC	337 subm	E/VSmall	-0.50	5	11	16	19	21	Sub
Germany	Type XXI	SS	1819 subm	C/Small	-0.50	16	32	47	57	63	Sub
Germany	Type XXIII	SSC	275 subm	E/VSmall	-0.50	5	9	14	16	18	Sub
Germany	Type XXVII B 'Seehund'	SSC	15 subm	G/VSmall	-0.50	0.7	1.3	2	2.3	2.6	Sub
Germany	U-Flak (Mod Type VIIC)	SS	865 subm	D/Small	-0.50	10	20	29	35	39	Sub
Germany	UA	SS	1357 subm	D/Small	-0.50	13	26	39	47	52	Sub
Germany	UB (Ex-GB Porpoise)	SS	2157 subm	C/Small	-0.50	18	36	53	64	71	Sub
Germany	UD 3 (Ex-Dutch O.25)	SS	1380 subm	D/Small	-0.50	13	27	40	48	53	Sub
Germany	UJ	PC	500 std	D/Small	-0.50	7	14	20	24	27	Civ
Germany	UJ 2101	(A)PCE	665 std	D/Small	-0.65	6	12	17	21	23	1925, Civ
Germany	UJ 2102	(A)PCE	560 std	D/Small	-0.50	7	15	22	26	29	Civ
Germany	UJ 2103	(A)PCE	400 std	D/Small	-0.40	7	14	21	25	28	1925, ML
Germany	UJ 2104	(A)PCE	430 std	D/Small	-0.50	6	12	18	22	24	
Germany	UJ 2105	(A)PCE	510 std	D/Small	-0.75	4	7	11	13	14	1895, Civ
Germany	UJ 2106	(A)PCE	450 std	D/Small	-0.40	8	15	23	27	30	1925, ML
Germany	UJ 2107	(A)PCE	590 std	D/Small	-0.75	4	8	11	14	15	1895, Civ
Germany	UJ 2108	(A)PCE	1221 std	D/Small	-0.40	15	29	44	52	58	1925, Aux
Germany	UJ 2109	(A)PCE	710 std	D/Small	-0.15	15	29	44	52	58	1925
Germany	UJ 2110	(A)PCE	380 std	D/Small	-0.40	7	14	20	24	27	1925, ML

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Germany	UJ 2111	(A)PCE	350 std	E/VSmall	-0.50	--	--	--	--	21	Civ
Germany	UJ 2124	(A)PCE	420 std	D/Small	-0.50	6	12	18	22	24	Civ
Germany	UH 2127	(A)PCE	400 std	D/Small	-0.50	6	12	17	21	23	Civ
Germany	UJ 2141 - UJ2144; GA 45	(A)PCE	190 std	E/VSmall	-0.75	--	--	--	--	7	Civ, wood
Germany	UJ 2152	PCE	112 std	E/VSmall	-0.50	--	--	--	--	9.9	Civ
Germany	UJ 2171, UJ 2172 (A)	PCE	800 std	D/Small	-0.50	9	19	28	33	37	Civ
Germany	Undine (1942)	CLAA	4445 std	C/Small	-0.25	43	87	130	156	173	1925, Special-10%
Germany	V 702	PC	998 std	D/Small	-0.50	11	22	32	39	43	Civ
Germany	V 709	PC	1200 std	D/Small	-0.50	12	24	36	43	48	Civ
Germany	VP	PC	400 std	D/Small	-0.50	6	12	17	21	23	Civ
Germany	Walter Holzaphel	AV	1400 std	D/Small	-0.25	20	40	60	72	80	Aux
Germany	Widder	AMC	7851 grt	B/Medium	-0.50	35	70	104	125	139	Civ
Germany	Z-Plan Small Aircraft Carrier	CVL	6000 std	B/Medium		70	141	211	253	281	
Germany	Z-Plan Colonial Gunboat	PG	2000 std	C/Small		34	68	101	122	135	
Germany	Z-Plan Minelayer	ML	5800 std	B/Medium	-0.25	52	103	155	185	206	ML
Germany	Z-Plan Mother Ship for MSB	MS(M)	6000 std	B/Medium	-0.25	53	106	158	190	211	Aux
Germany	Z-Plan Training Ship	CM(T)	5800 std	B/Medium	-0.25	52	103	155	185	206	ML
Germany	Zeus	(A)CM	2423 std	C/Small	-0.50	19	39	58	69	77	Civ
Germany	ZG 3 Hermes	DD	1313 std	D/Small		26	51	77	92	102	
Germany	ZH 1	DD	1604 std	C/Small		29	59	88	105	117	
Greece	Aetos (1925)	DD	1050 std	D/Small	-0.15	19	38	56	68	75	1925
Greece	Aigli (1931)	TB	120 std	E/VSmall	-0.15	--	--	--	--	18	1925
Greece	Argo	AO	11715 grt	B/Medium	-0.50	46	91	137	164	182	1925, MCnv
Greece	Averof (1927)	CR	9958 std	B/Medium	-0.15	84	168	251	302	335	1925
Greece	Delfin	SS	740 subm	D/Small	-0.50	9	18	26	32	35	Sub
Greece	Elli (1928)	CM	2115 std	C/Small	-0.15	30	60	89	107	119	1925
Greece	Ex-GB Hunt Type 2	DE	1050 std	D/Small		22	44	66	79	88	
Greece	Ex-GB Hunt Type 3	DE	1050 std	D/Small		22	44	66	79	88	
Greece	Ex-Italian Perla	SS	860 subm	D/Small	-0.50	10	20	29	35	39	Sub
Greece	Ex-US Mississippi	BB	13000 std	B/Medium	-0.15	100	201	301	361	401	1925
Greece	Hifastos	AR/AS	4549 grt	C/Small	-0.50	24	49	73	87	97	1925, MCnv

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Greece	Hydra	DD	1389 std	D/Small		27	53	80	95	106	
Greece	Hydra (1942)	DD	1389 std	D/Small		27	53	80	95	106	
Greece	Katsonis	SS	778 subm	D/Small	-0.65	6	13	19	23	25	1925, Sub
Greece	Kios	TB	265 fl	E/VSmall	-0.15	--	--	--	--	27	1925
Greece	Niki	TB	275 std	E/VSmall	-0.15	--	--	--	--	31	1925
Greece	Niki (1927)	TB	275 std	E/VSmall	-0.15	--	--	--	--	31	1925
Greece	Prousa	TB	244 std	E/VSmall	-0.15	--	--	--	--	28	1925
Greece	Thyella	TB	305 std	E/VSmall	-0.15	--	--	--	--	33	1925
Greece	Thyella (1928)	TB	305 std	E/VSmall	-0.15	--	--	--	--	33	1925
Greece	Triton	SS	960 subm	D/Small	-0.50	10	21	31	37	41	Sub
Greece	Vasilevs Georgios I	DD	1350 std	D/Small		26	52	78	94	104	
India	Clive	DE	2083 std	C/Small	-0.15	30	59	89	106	118	1925
India	GB Admiralty first group MMS	MMS	255 std	E/VSmall	-0.35	--	--	--	--	22	Wood
India	Ex-GB Aubretia	DE	1250 std	D/Small	-0.15	21	42	63	76	84	1925
India	Ex-GB Basset	PC	560 std	D/Small		15	29	44	52	58	
India	Ex-GB Bangor (Turbine)	AM	605 std	D/Small		15	31	46	55	61	
India	Ex-GB Leander First Group[CL	7270 std	B/Medium		80	160	240	288	320	
India	Ex-GB Modified Flower	DE	976 std	D/Small	-0.25	16	32	47	57	63	MStd
India	Ex-GB PC Boat	PC	694 std	D/Small	-0.15	14	29	43	51	57	1925
India	Ex-GB River (RN 1st Group)	PF	1370 std	D/Small		26	53	79	95	105	
India	Ex-Perisna Charogh	PGM	331 std	E/VSmall		--	--	--	--	41	
India	GB Bangor (Steam Recip)	AM	688 std	D/Small		17	33	50	59	66	
India	GB Fairmile B	PG	75 std	F/VSmall		--	--	--	--	15	
India	Harbour Defence Motor Launch	PGM	45 std	F/VSmall		--	--	--	--	11	
India	Hindustan	DE	1190 std	D/Small		24	48	72	86	96	
India	Indus	DE	1190 std	D/Small		24	48	72	86	96	
India	Lawrence	MS	1245 std	D/Small	-0.15	21	42	63	76	84	1925
India	Modified GB Black Swan	DE	1390 std	D/Small		27	53	80	95	106	
India	Modified GB Bittern	DE	1340 std	D/Small		26	52	78	94	104	
India	RAN Bathurst	AM	790 std	D/Small		18	37	55	66	73	
Iran	Azerbaijan	PCE	30 std	F/VSmall	-0.35	--	--	--	--	5.3	Wood

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Iran	Babr	DE	950 std	D/Small		21	41	62	74	82	
Iran	Charough	PC	331 std	E/VSmall		--	--	--	--	41	
Iran	Ex-German FM Type	PG	193 fl	E/VSmall	-0.15	--	--	--	--	22	1925
Iraq	Ex-GB Saint class	ATO	600 std	D/Small	-0.15	13	26	39	47	52	
Iraq	Thornycroft PB	PB	67 std	F/VSmall		--	--	--	--	14	
Ireland	Ex-GB Flower	FF	1110 std	D/Small	-0.25	17	35	52	62	69	MStd
Italy	Acciaio	SS	850 subm	D/Small	-0.50	10	19	29	34	38	Sub
Italy	Adua	SS	866 subm	D/Small	-0.50	10	20	29	35	39	Sub
Italy	Andrea Doria (1940)	BB	25924 std	A/Large	-0.15	159	318	476	572	635	1925
Italy	Andrea Doria (Caio Duilio)	BB	26434 std	A/Large	-0.15	161	322	482	579	643	1925
Italy	Aquila	CV	23130 std	A/Large	-0.40	104	208	311	374	415	MStd, 1925
Italy	Archimede	SS	1239 subm	D/Small	-0.50	12	25	37	44	49	Sub
Italy	Argo	SS	1000 subm	D/Small	-0.50	11	22	32	39	43	Sub
Italy	Argonauta	SS	810 subm	D/Small	-0.50	9	19	28	33	37	Sub
Italy	Ariete	TB	745 std	D/Small		18	35	53	63	70	
Italy	Balilla	SS	1904 subm	C/Small	-0.50	16	33	49	59	65	Sub
Italy	Bandiera	SS	1080 subm	D/Small	-0.50	11	23	34	41	45	Sub
Italy	Barletta	AMC	1975 std	C/Small	-0.50	17	34	50	60	67	Civ
Italy	Bolzano	CA	10890 std	B/Medium		105	210	314	377	419	
Italy	Bonfiglietti	CVL	15240 std	B/Medium		131	262	393	472	524	
Italy	Bragadin	SS	1068 subm	D/Small	-0.50	11	23	34	41	45	Sub
Italy	Brin	SS	1245 subm	D/Small	-0.50	12	25	37	44	49	Sub
Italy	Cagni	SS	2136 subm	C/Small	-0.50	18	36	53	64	71	Sub
Italy	Calvi	SS	2028 subm	C/Small	-0.50	17	34	51	61	68	Sub
Italy	Cantore	TB	635 std	D/Small	-0.15	13	27	40	48	53	1925
Italy	Capitani Romani	DL	3686 std	C/Small	-0.15	43	87	130	156	173	ALS
Italy	Ciclone	DE	1204 std	D/Small		24	48	72	86	96	
Italy	Condottieri (1st Group)	CL	5110 std	C/Small		63	127	190	228	253	
Italy	Condottieri (2nd Group)	CL	5232 std	C/Small		64	129	193	231	257	
Italy	Condottieri (3rd Group)	CL	7405 std	B/Medium		81	162	243	292	324	
Italy	Condottieri (4th Group)	CL	8317 std	B/Medium		88	175	263	315	350	

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Italy	Condottieri (5th Group)	CL	9440 std	B/Medium		95	191	286	343	381	
Italy	Condottieri (6th Group)	CL	9615 std	B/Medium		97	193	290	347	386	
Italy	Conte Di Cavour (1937)	BB	26140 std	A/Large	-0.15	160	320	479	575	639	1925
Italy	Curtatone	DD	922 std	D/Small	-0.15	17	35	52	62	69	1925
Italy	Curtatone (1943)	DE	922 std	D/Small	-0.15	17	35	52	62	69	1925
Italy	Diana	PG	1735 std	C/Small		31	62	92	111	123	
Italy	Eritrea	PG	2165 std	C/Small		36	72	107	129	143	
Italy	Ermanno Carlotto	PR	218 std	E/VSmall	-0.15	--	--	--	--	26	1925
Italy	Ernesto Giovannini	PG	260 std	E/VSmall	-0.15	--	--	--	--	29	1925
Italy	Etna	CL	6000 std	B/Medium		70	141	211	253	281	
Italy	Ex-German Gazelle	CL	2617 std	C/Small	-0.15	35	69	104	124	138	1925
Italy	Ex-German M57, Ex-Yugoslav Galeb	AM	525 std	D/Small	-0.15	12	24	35	42	47	1925
Italy	Ex-German Pillau (1935)	CL	5110 std	C/Small	-0.15	54	108	161	194	215	1925
Italy	Ex-German Pillau (projected conversion)	CLAA	4390 std	C/Small	-0.15	49	97	146	175	194	1925
Italy	Ex-German Strassbourg (1937)	CL	4564 std	C/Small	-0.15	50	100	149	179	199	1925
Italy	Ex-Yugoslav Beograd	DD	1210 std	D/Small		24	49	73	87	97	
Italy	Ex-Yugoslav Cetnik	PT	15 std	G/VSmall	-0.35	--	--	--	--	3.4	Wood
Italy	Ex-Yugoslav Dubrovnik	DD	1880 std	C/Small		33	65	98	117	130	
Italy	Ex-Yugoslav Malinska	AM	130 std	E/VSmall	-0.15	--	--	--	--	19	1925
Italy	Ex-Yugoslav Orjen	PT	78 std	F/VSmall	-0.35	--	--	--	--	10	Wood
Italy	Ex-Yugoslav Smeli	SS	809 subm	D/Small	-0.50	9	19	28	33	37	Sub
Italy	Fieramosca	SS	2094 subm	C/Small	-0.50	18	35	53	63	70	Sub
Italy	Flutto (Type 1)	SS	1093 subm	D/Small	-0.50	11	23	34	41	45	Sub
Italy	Foca	SS	1625 subm	C/Small	-0.50	15	30	44	53	59	Sub
Italy	Folgore	DD	1540 std	C/Small		29	57	86	103	114	
Italy	Freccia	DD	1540 std	C/Small		29	57	86	103	114	
Italy	Gabbiano	DE	670 std	D/Small		16	33	49	59	65	
Italy	Glauco	SS	1325 subm	D/Small	-0.50	13	26	38	46	51	Sub
Italy	Guiseppe Miraglia	AV	4880 std	C/Small	-0.15	52	104	156	187	208	1925
Italy	La Masa	TB	650 std	D/Small	-0.15	14	27	41	49	54	1925

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Italy	Leone	DD	1743 std	C/Small	-0.15	26	53	79	95	105	1925
Italy	Littorio	BB	41377 std	A/Large		255	510	765	918	1020	
Italy	Liuzzi	SS	1484 subm	D/Small	-0.50	14	28	41	50	55	Sub
Italy	Maestrale	DD	1700 std	C/Small		30	61	91	109	121	
Italy	Mameli	SS	1010 subm	D/Small	-0.50	11	22	32	39	43	Sub
Italy	Marcello	SS	1290 subm	D/Small	-0.50	13	25	38	45	50	Sub
Italy	Marconi	SS	1465 subm	D/Small	-0.50	14	28	41	50	55	Sub
Italy	MAS 423	PT	13 std	G/VSmall	-0.35	--	--	--	--	3.1	Wood
Italy	MAS 427	PT	31 std	F/VSmall	-0.35	--	--	--	--	5.5	Wood
Italy	MAS 430	PT	14 std	G/VSmall	-0.35	--	--	--	--	3.2	Wood
Italy	MAS 431	PT	15 std	G/VSmall	-0.35	--	--	--	--	3.4	Wood
Italy	MAS 438	PC	40 std	F/VSmall	-0.35	--	--	--	--	6.5	Wood
Italy	MAS 501	PT	21 std	F/VSmall	-0.35	--	--	--	--	4.2	Wood
Italy	MAS 526	PT	25 std	F/VSmall	-0.35	--	--	--	--	4.7	Wood
Italy	MAS 551	PT	27 std	F/VSmall		--	--	--	--	7.7	
Italy	MAS 555	PT	25 std	F/VSmall	-0.35	--	--	--	--	4.7	Wood
Italy	Mirabello	DD	1811 std	C/Small	-0.15	27	54	81	97	108	1925
Italy	MS Type 1	PT	62 std	F/VSmall		--	--	--	--	13	
Italy	MS Type 2	PT	67 std	F/VSmall		--	--	--	--	14	
Italy	Navigatori	DD	1900 std	C/Small		33	66	98	118	131	
Italy	Navigatori (1940)	DD	2125 std	C/Small		35	71	106	127	141	
Italy	Oriani	DD	1675 std	C/Small		30	60	90	108	120	
Italy	Ostia	CM	615 std	D/Small		16	31	47	56	62	
Italy	Palestro	TB	890 std	D/Small	-0.15	17	34	50	60	67	1925
Italy	Pegaso	DE	1168 std	D/Small		24	47	71	85	94	
Italy	Peitro Micca	SS	1940 subm	C/Small	-0.50	17	33	50	59	66	Sub
Italy	Perla	SS	860 subm	D/Small	-0.50	10	20	29	35	39	Sub
Italy	Pilo	TB	615 std	D/Small	-0.15	13	26	39	47	52	1925
Italy	Pisani	SS	1040 subm	D/Small	-0.50	11	22	33	40	44	Sub
Italy	Ramb III	AMC	5182 std	C/Small	-0.50	32	64	96	115	128	Civ
Italy	Romolo	SS	2560 subm	C/Small	-0.50	20	40	60	72	80	Sub

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Italy	San Giorgio (1938)	CR	9470 std	B/Medium	-0.15	81	162	243	292	324	1925
Italy	Sauro	DD	1040 std	D/Small	-0.15	19	37	56	67	74	1925
Italy	Sella	DD	955 std	D/Small	-0.15	18	35	53	63	70	1925
Italy	Settembrini	SS	1153 subm	D/Small	-0.50	12	24	35	42	47	Sub
Italy	Sirenia	SS	860 subm	D/Small	-0.50	10	20	29	35	39	Sub
Italy	Sirtori (1920)	TB	669 std	D/Small	-0.15	14	28	41	50	55	1925
Italy	Soldati	DD	1830 std	C/Small		32	64	95	114	127	
Italy	Sparviero	CVE	20000 std	A/Large	-0.65	55	110	165	198	220	1925, Civ
Italy	Spica class, Alicone Group	TB	679 std	D/Small		17	33	50	59	66	
Italy	Spica class, Climene Group	TB	652 std	D/Small		16	32	48	58	64	
Italy	Spica class, Perseo Group	TB	642 std	D/Small		16	32	47	57	63	
Italy	Spica class, Spica Group	TB	620 std	D/Small		16	31	47	56	62	
Italy	Squalo	SS	1125 subm	D/Small	-0.50	12	23	35	41	46	Sub
Italy	Trento	CA	10500 std	B/Medium		102	205	307	368	409	
Italy	Turbine	DD	1070 std	D/Small	-0.15	19	38	57	68	76	1925
Italy	VAS Type 1	PC	68 std	F/VSmall		--	--	--	--	14	
Italy	VAS Type 2	PC	68 std	F/VSmall		--	--	--	--	14	
Italy	VAS Type 3	PC	90 std	E/VSmall		--	--	--	--	17	
Italy	Zara	CA	11680 std	B/Medium		110	220	329	395	439	
Italy	Zara (Fiume)	CA	11326 std	B/Medium		108	215	323	387	430	
Italy	Zara (Gorizia)	CA	11712 std	B/Medium		110	220	330	396	440	
Italy	Zara (Pola)	CA	11545 std	B/Medium		109	218	327	392	436	
Japan	150-ton Torpedo Transport	AE	156 std	E/VSmall	-0.25	--	--	--	--	19	
Japan	15-meter River Gunboat	PR	10 std	G/VSmall	-0.35	--	--	--	--	2.6	Wood
Japan	19-meter River Gunboat	PR	10 std	G/VSmall	-0.35	--	--	--	--	2.6	Wood
Japan	Agano	CL	6652 std	B/Medium		76	151	227	272	302	
Japan	Aiyo Maru	Merchant	2746 grt	C/Small	-0.50	17	35	52	62	69	Civ
Japan	Ajiro	CMc	720 std	D/Small	-0.25	13	26	38	46	51	ML
Japan	Akagi	CV	29000 std	A/Large	-0.15	171	342	513	616	684	1925
Japan	Akagi (1938)	CV	36500 std	A/Large	-0.15	200	399	599	718	798	1925
Japan	Akagi Maru	AMC	7837 grt	B/Medium	-0.50	35	70	104	125	139	Civ

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Japan	Akashi	AR	9144 std	B/Medium	-0.25	70	140	210	252	280	Aux
Japan	Akatsuki	DD	1706 std	C/Small	-0.15	26	52	77	93	103	ALS
Japan	Akatsuki (1937)	DD	1980 std	C/Small	-0.15	29	57	86	103	114	ALS
Japan	Akatsuki Maru	AO	10182 grt	B/Medium	-0.50	41	83	124	149	165	Civ
Japan	Akitsu Maru	CVW	11800 std	B/Medium	-0.35	72	144	215	258	287	MCnv
Japan	Akitsuushima	AV	4650 std	C/Small	-0.25	45	89	134	160	178	Aux
Japan	Akizuki	DD	2744 std	C/Small		42	84	125	150	167	
Japan	Amagi	BC	40000 std	A/Large	-0.15	212	424	636	763	848	1925
Japan	Amatsukaze	DD	1227 std	D/Small	-0.15	21	42	62	75	83	1925
Japan	Aoba	CA	7100 std	B/Medium	-0.15	67	134	201	241	268	1925
Japan	Aoba (1938)	CA	9000 std	B/Medium	-0.15	79	157	236	283	314	1925
Japan	Argentina Maru	Merchant	12755 grt	B/Medium	-0.50	48	96	144	173	192	Civ
Japan	Asahisan Maru	Merchant	4550 grt	C/Small	-0.50	24	49	73	87	97	Civ
Japan	Asaka Maru	Maru	7399 grt	B/Medium	-0.50	34	67	101	121	134	Civ
Japan	Asama	CR	9700 std	B/Medium	-0.15	83	165	248	297	330	1925
Japan	Asashio	DD	1992 std	C/Small		34	68	101	122	135	
Japan	Ashizuri	AOG	7951 grt	B/Medium		70	140	210	252	280	
Japan	Ataka	PG	1094 std	D/Small	-0.15	19	39	58	69	77	1925
Japan	Atami	PG	225 std	E/VSmall		--	--	--	--	32	
Japan	Azuma	CR	9278 std	B/Medium	-0.15	80	160	240	288	320	1925
Japan	Azuma Maru	Maru	7064 grt	C/Small	-0.50	33	65	98	117	130	Civ
Japan	Azumasan Maru	Maru	7624 grt	B/Medium	-0.50	34	68	102	122	136	Civ
Japan	B64	BC	31000 std	A/Large	-0.15	179	358	536	644	715	1925
Japan	B65	BC	31000 std	A/Large		211	421	632	758	842	
Japan	Bangkok Maru	AMC	5451 grt	C/Small	-0.50	27	55	82	98	109	Civ
Japan	Ch.7	PC	291 std	E/VSmall		--	--	--	--	37	
Japan	Ch.13	PC	438 std	D/Small		12	25	37	44	49	
Japan	Cha.1	SC	130 std	E/VSmall	-0.35	--	--	--	--	14	Wood
Japan	Chidori	TB	615 std	D/Small	-0.40	9	19	28	33	37	1925, Special-25%
Japan	Chidori (1934)	TB	662 std	D/Small	-0.15	14	28	41	50	55	1925
Japan	Chitose (1943)	CVL	11900 std	B/Medium	-0.25	83	167	250	300	333	Aux

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Japan	Chitose	AV	11023 std	B/Medium	-0.25	79	159	238	285	317	Aux
Japan	Chowa Maru	Merchant	2748 grt	C/Small	-0.50	17	35	52	62	69	Civ
Japan	Daifuku Maru No. 1	Maru	5464 grt	C/Small	-0.65	19	38	57	68	76	1925, Civ
Japan	Daihatsu Landing Craft	LCM	20 std	G/VSmall	-0.25	--	--	--	--	4.7	Amphib
Japan	Ehime Maru	Merchant	4653 grt	C/Small	-0.65	17	35	52	62	69	1925, Civ
Japan	Enoki	DD	850 std	D/Small	-0.15	16	33	49	59	65	1925
Japan	Etorofu	DE	870 std	D/Small		20	39	59	70	78	
Japan	Ex-Chinese Chang Feng	DD	390 std	D/Small	-0.15	10	20	29	35	39	1925
Japan	Ex-Chinese Chiang Yuan	PG	565 std	D/Small	-0.15	12	25	37	44	49	1925
Japan	Ex-Chinese Ning class	PG	400 std	D/Small		12	23	35	41	46	
Japan	Ex-Chinese Yat Sen	PG	1520 std	C/Small		28	57	85	102	113	
Japan	Ex-GB Admiralty S class	PG	905 std	D/Small	-0.15	17	34	51	61	68	1925
Japan	Ex-GB Bangor	MS	580 std	D/Small		15	30	44	53	59	
Japan	Ex-GB Empire Blossom	Maru	6603 grt	C/Small	-0.50	31	62	93	112	124	Civ
Japan	Ex-GB Insect	PR	625 std	D/Small	-0.15	13	27	40	48	53	1925
Japan	Ex-German Saarland	Aux-AP	6801 grt	C/Small	-0.65	22	44	66	79	88	1925, Civ
Japan	Ex-Italian Emanno Carlotto	PR	218 std	E/VSmall	-0.15	--	--	--	--	26	1925
Japan	Ex-Northwestern Miller	Merchant	5046 grt	C/Small	-0.65	18	36	54	65	72	1925, Civ
Japan	Ex-Portugese Macau	PR	95 ltshp	E/VSmall	-0.15	--	--	--	--	16	1925
Japan	Ex-US Clemson	DD	1190 std	D/Small	-0.15	20	41	61	73	81	1925
Japan	Ex-US Clemson (1944)	DD	1539 std	C/Small	-0.15	24	49	73	87	97	1925
Japan	Ex-US Wake	PR	370 std	D/Small	-0.15	9	19	28	33	37	1925
Japan	Experimental Sub No.71	SS	240 subm	E/VSmall	-0.50	4	8	12	14	16	Sub
Japan	Fiat-Laurenti F1 Type (RO.1)	SS	1047 subm	D/Small	-0.65	8	16	23	28	31	1925, Sub
Japan	Fiat-Laurenti F2 Type (RO.3)	SS	1047 subm	D/Small	-0.65	8	16	23	28	31	1925, Sub
Japan	Fubuki	DD	1778 std	C/Small	-0.15	27	53	80	95	106	ALS
Japan	Fubuki (1936)	DD	1778 std	C/Small	-0.15	27	53	80	95	106	ALS
Japan	Fujisan Maru	Maru	9524 grt	B/Medium	-0.50	40	79	119	142	158	Civ
Japan	Furutaka	CA	8700 std	B/Medium	-0.15	77	154	230	276	307	1925
Japan	Furutaka (1932)	CA	8700 std	B/Medium	-0.15	77	154	230	276	307	1925
Japan	Fushimi	PG	350 std	E/VSmall		--	--	--	--	42	

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Japan	Fuso	BB	30600 std	A/Large	-0.15	177	355	532	638	709	1925
Japan	Fuso (1928)	BB	30600 std	A/Large	-0.15	177	355	532	638	709	1925
Japan	Fuso (1933)	BB	34700 std	A/Large	-0.15	193	386	578	694	771	1925
Japan	Fuso (1941)	BB	34700 std	A/Large	-0.15	193	386	578	694	771	1925
Japan	Goyo Maru	Maru	8469 grt	B/Medium	-0.50	37	73	110	131	146	Civ
Japan	H.2	PG	26 std	F/VSmall	-0.35	--	--	--	--	4.9	Wood
Japan	H.35	PG	25 std	F/VSmall	-0.35	--	--	--	--	4.7	Wood
Japan	H.38	PG	25 std	F/VSmall	--	--	--	--	--	7.3	
Japan	H.61	PG	25 std	F/VSmall	--	--	--	--	--	7.3	
Japan	Ha.101	SSC	493 subm	D/Small	-0.50	7	14	20	24	27	Sub
Japan	Ha.201	SS	440 subm	D/Small	-0.50	6	13	19	23	25	Sub
Japan	Hague Maru	Maru	5824 grt	C/Small	-0.50	29	57	86	103	114	Civ
Japan	Hakone Maru	Maru	4351 grt	C/Small	-0.50	24	47	71	85	94	Civ
Japan	Hankow Maru	Merchant	4103 grt	C/Small	-0.65	16	32	47	57	63	1925, Civ
Japan	Hario	AO	18500 std	A/Large	-0.25	112	224	335	402	447	Aux
Japan	Hashidate	PG	1860 std	C/Small	--	32	65	97	116	129	
Japan	Hashima	ATF	625 std	D/Small	-0.50	8	16	23	28	31	Civ
Japan	Hatsuharu	DD	1513 std	C/Small	--	28	56	84	101	112	
Japan	Hatsutaka	CM	4000 std	C/Small	-0.25	40	81	121	145	161	ML
Japan	Hayasui	AO	18300 std	A/Large	-0.25	111	222	333	400	444	Aux
Japan	Heian Maru	AS	11616 grt	B/Medium	-0.50	45	90	135	162	180	Civ
Japan	Hirashima	CMc	720 std	D/Small	-0.25	13	26	38	46	51	ML
Japan	Hokoku Maru	AMC	10438 grt	B/Medium	-0.50	42	84	126	151	168	Civ
Japan	Hosho	CVL	7470 std	B/Medium	-0.15	69	139	208	249	277	1925
Japan	Hosho (1936)	CVL	7470 std	B/Medium	-0.15	69	139	208	249	277	1925
Japan	Hoyo Maru	AO	8691 grt	B/Medium	-0.50	37	75	112	134	149	Civ
Japan	Husimi Maru	Merchant	5461 grt	C/Small	-0.50	27	55	82	98	109	Civ
Japan	I.1	SS	2791 subm	C/Small	-0.65	15	30	44	53	59	1925, Sub
Japan	I.5	SS	2921 subm	C/Small	-0.50	22	44	65	78	87	Sub
Japan	I.6	SS	3061 subm	C/Small	-0.50	23	45	68	81	90	Sub
Japan	I.7	SS	3538 subm	C/Small	-0.50	25	50	74	89	99	Sub

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Japan	I.9	SS	4149 subm	C/Small	-0.50	28	55	83	99	110	Sub
Japan	I.12	SS	4172 subm	C/Small	-0.50	28	55	83	99	110	Sub
Japan	I.13	SS	4762 subm	C/Small	-0.50	30	61	91	109	121	Sub
Japan	I.15	SS	3654 subm	C/Small	-0.50	25	51	76	91	101	Sub
Japan	I.16	SS	3561 subm	C/Small	-0.50	25	50	74	89	99	Sub
Japan	I.21/121	SS	1768 subm	C/Small	-0.65	11	22	33	40	44	1925, Sub
Japan	I.40	SS	3700 subm	C/Small	-0.50	26	51	77	92	102	Sub
Japan	I.46	SS	3564 subm	C/Small	-0.50	25	50	74	89	99	Sub
Japan	I.51	SS	2430 subm	C/Small	-0.65	14	27	41	49	54	1925, Sub
Japan	I.52	SS	3644 subm	C/Small	-0.50	25	51	76	91	101	Sub
Japan	I.52/152	SS	2500 subm	C/Small	-0.65	14	28	41	50	55	1925, Sub
Japan	I.53/153	SS	2300 subm	C/Small	-0.65	13	26	39	47	52	1925, Sub
Japan	I.54	SS	3688 subm	C/Small	-0.50	26	51	77	92	102	Sub
Japan	I.56/156	SS	2300 subm	C/Small	-0.65	13	26	39	47	52	1925, Sub
Japan	I.61/161	SS	2300 subm	C/Small	-0.65	13	26	39	47	52	1925, Sub
Japan	I.65/165	SS	2330 subm	C/Small	-0.50	19	38	56	68	75	Sub
Japan	I.68/168	SS	2440 subm	C/Small	-0.50	19	39	58	69	77	Sub
Japan	I.74/174	SS	2564 subm	C/Small	-0.50	20	40	60	72	80	Sub
Japan	I.76/176	SS	2602 subm	C/Small	-0.50	20	41	61	73	81	Sub
Japan	I.201	SS	1450 subm	D/Small	-0.50	14	28	41	50	55	Sub
Japan	I.351	SS	4290 subm	C/Small	-0.50	28	57	85	102	113	Sub
Japan	I.361	SS	2215 subm	C/Small	-0.50	18	36	54	65	72	Sub
Japan	I.372 (Vickers L2)	SS	2240 subm	C/Small	-0.50	18	37	55	66	73	Sub
Japan	I.373	SS	2240 subm	C/Small	-0.50	18	37	55	66	73	Sub
Japan	I.400	SS	6560 subm	B/Medium	-0.50	37	75	112	134	149	Sub
Japan	Ibuki	CVL	12500 std	B/Medium		115	230	344	413	459	
Japan	Ioshima	CL	2500 std	C/Small		39	79	118	141	157	
Japan	Irako	AF	9570 std	B/Medium	-0.25	72	144	216	259	288	Aux
Japan	Ise	BB	31260 std	A/Large	-0.15	180	360	539	647	719	1925
Japan	Ise (1937)	BB	36000 std	A/Large	-0.15	198	395	593	711	790	1925
Japan	Ise (1943)	BBAV	35250 std	A/Large	-0.15	195	390	584	701	779	1925

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Japan	Itsukushima	CM	1970 std	C/Small	-0.25	25	50	75	90	100	ML
Japan	Izumo	CR	9750 std	B/Medium	-0.15	83	166	248	298	331	1925
Japan	Jingei	AS	6600 std	B/Medium	-0.40	45	90	135	162	180	1925, Aux
Japan	Junyo	CV	24140 std	A/Large	-0.35	116	232	347	417	463	MCnv
Japan	Kaba	DD	665 std	D/Small	-0.15	14	28	41	50	55	1925
Japan	Kaga	CV	29000 std	A/Large	-0.15	171	342	513	616	684	1925
Japan	Kaga (1935)	CV	38200 std	A/Large	-0.15	206	411	617	740	822	1925
Japan	Kagero	DD	2065 std	C/Small		35	69	104	124	138	
Japan	Kagu Maru	AV	6807 grt	C/Small	-0.35	41	82	123	148	164	MCnv
Japan	Kaibokan Type C	DE	745 std	D/Small		18	35	53	63	70	
Japan	Kaibokan Type D	DE	740 std	D/Small		18	35	53	63	70	
Japan	Kairyu Midget Sub	SSM	20 subm	G/VSmall	-0.50	0.8	1.8	2	2.8	3.1	Sub
Japan	Kaiyo	CVL	13600 std	B/Medium	-0.50	61	122	182	219	243	Civ
Japan	Kamikawa Maru	AV	6853 grt	C/Small	-0.25	48	95	143	171	190	Aux
Japan	Kamikaze	DD	1422 std	D/Small	-0.15	23	46	69	83	92	1925
Japan	Kamikaze (1941)	DD	1422 std	D/Small	-0.15	23	46	69	83	92	1925
Japan	Kamoi	AV	17000 std	B/Medium	-0.40	85	169	254	304	338	1925, Aux
Japan	Kamone	CM	450 std	D/Small	-0.25	10	19	29	34	38	ML
Japan	Kashii Maru	Maru	8613 grt	B/Medium	-0.50	37	74	111	133	148	Civ
Japan	Kashino	AK	10360 std	B/Medium	-0.25	76	152	228	274	304	Aux
Japan	Kasuga	CR	7628 std	B/Medium	-0.15	70	141	211	253	281	1925
Japan	Katori	CL	5890 std	B/Medium		70	139	209	250	278	
Japan	Katsuriki	AGS	1540 std	C/Small	-0.40	17	34	51	61	68	1925, Aux
Japan	Kazahaya	AO	18300 std	A/Large	-0.25	111	222	333	400	444	Aux
Japan	Kii	BB	41400 std	A/Large	-0.15	217	434	651	781	868	1925
Japan	Kimikawa Maru	AV	6863 grt	C/Small	-0.35	41	83	124	149	165	MCnv
Japan	Kinai Maru	Merchant	8416 grt	B/Medium	-0.50	37	73	110	131	146	Civ
Japan	Kinezaki	AF	920 std	D/Small	-0.25	15	30	45	54	60	Aux
Japan	Kinryu Maru	AP	9310 grt	B/Medium	-0.50	39	78	117	140	156	Civ
Japan	Kinryu Maru (1941)	AMC	9310 grt	B/Medium	-0.50	39	78	117	140	156	Civ
Japan	Kinugasa Maru	AVM	8407 grt	B/Medium	-0.35	47	95	142	170	189	MCnv

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Japan	Kirishima Maru (i)	AP	5840 grt	C/Small	-0.50	29	57	86	103	114	Civ
Japan	Kirishima Maru (ii)	AO	8267 grt	B/Medium	-0.50	36	72	108	130	144	Civ
Japan	Kitakami (1941)	CL	5870 std	B/Medium	-0.15	59	118	177	212	236	1925
Japan	Kiyosumi Maru	AMC	8613 grt	B/Medium	-0.50	37	74	111	133	148	Civ
Japan	Kogyo Maru	AO	6353 grt	C/Small	-0.50	30	61	91	109	121	Civ
Japan	Kongo	BC	26330 std	A/Large	-0.15	161	321	482	578	642	1925
Japan	Kongo (1927)	BB	29330 std	A/Large	-0.15	173	345	518	621	690	1925
Japan	Kongo (1934)	BB	32156 std	A/Large	-0.15	183	367	550	660	733	1925
Japan	Kongo Maru	AP	7080 grt	C/Small	-0.50	33	65	98	117	130	Civ
Japan	Kotaka	PG	63 std	F/VSmall	--	--	--	--	--	13	
Japan	Koto Maru	Maru	3519 grt	C/Small	-0.50	20	41	61	73	81	Civ
Japan	Kuma	CL	5100 std	C/Small	-0.15	54	108	161	194	215	1925
	Kumagawa Maru	Merchant	7500 grt	B/Medium	-0.50	34	68	101	122	135	Civ
Japan	Kumano Maru	AK	8000 std	B/Medium	-0.25	64	128	192	230	256	Aux
Japan	Kurasaki	AF	2371 std	C/Small	-0.50	19	38	57	68	76	Civ
Japan	Mamiya	AF	15820 std	B/Medium	-0.40	81	161	242	290	322	1925, Aux
Japan	Maru-Ni	--	1.6 std	G/VSmall	--	--	--	--	--	1.2	
Japan	Matsu	DD	1282 std	D/Small		25	51	76	91	101	
Japan	Matsushima	CVL	5833 std	B/Medium		69	138	207	248	276	
Japan	Maya (AA cruiser)	CA	13350 std	B/Medium		120	240	360	432	480	
Japan	Mikura	DE	1020 std	D/Small		22	43	65	77	86	
Japan	Minekaze	DD	1345 std	D/Small	-0.15	22	44	66	79	88	1925
Japan	Minekaze (1938)	DD	1552 std	C/Small	-0.15	24	49	73	87	97	1925
Japan	Mizuho	AVM	10929 std	B/Medium	-0.25	79	158	236	284	315	Aux
Japan	Mogami	CL	8636 std	B/Medium	-0.15	76	153	229	275	305	ALS
Japan	Mogami (1936)	CL	9636 std	B/Medium	-0.15	82	164	246	295	328	ALS
Japan	Mogami (1940)	CA	13000 std	B/Medium		118	236	353	424	471	
Japan	Mogami	CLV	12206 std	B/Medium		113	226	339	407	452	
Japan	Momi	DD	850 std	D/Small	-0.15	16	33	49	59	65	1925
Japan	Momi (1939)	PC	935 std	D/Small	-0.15	17	35	52	62	69	1925
Japan	Momo	DD	835 std	D/Small	-0.15	16	32	48	58	64	1925

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Japan	Muroto	AK	8215 std	B/Medium	-0.25	65	130	195	234	260	Aux
Japan	Mutsuki	DD	1336 std	D/Small	-0.15	22	44	66	79	88	1925
Japan	Myoko	CA	10160 std	B/Medium		100	200	300	360	400	
Japan	Myoko (1935)	CA	13000 std	B/Medium		118	236	353	424	471	
Japan	Myoko (1940)	CA	13000 std	B/Medium		118	236	353	424	471	
Japan	Nagara	CL	5170 std	C/Small	-0.15	54	109	163	195	217	1925
Japan	Nagara Maru	Maru	7190 grt	C/Small	-0.50	33	66	98	118	131	Civ
Japan	Nagasaki (ii)	SS	10000 subm	B/Medium	-0.65	35	70	104	125	139	1925, Sub
Japan	Nagato	BB	32700 std	A/Large	-0.15	185	371	556	667	741	1925
Japan	Nagato (1936)	BB	39130 std	A/Large	-0.15	209	418	627	752	836	1925
Japan	Nanshin	PG	2500 std	C/Small		39	79	118	141	157	
Japan	Nasami	CMc	450 std	D/Small	-0.25	10	19	29	34	38	ML
Japan	Natsushima	CMc	405 std	D/Small	-0.40	7	14	21	25	28	1925, ML
Japan	Nisshin	AVM	11317 std	B/Medium	-0.25	81	161	242	290	322	Aux
Japan	No.13	BB	47500 std	A/Large	-0.15	238	476	713	856	951	1925
Japan	Noshiro Maru	AMC	7184 grt	C/Small	-0.50	33	66	98	118	131	Civ
Japan	Notoro	AV	14050 std	B/Medium	-0.40	75	149	224	268	298	1925, Aux
Japan	Nozaki	AF	640 std	D/Small	-0.50	8	16	24	29	32	Civ
Japan	Ojima	ATF	800 std	D/Small	-0.25	14	28	41	50	55	Aux
Japan	Okinoshima	CM	4000 std	C/Small	-0.25	40	81	121	145	161	ML
Japan	Okitsu	PG	615 std	D/Small		16	31	47	56	62	
Japan	Ose	AO	7984 grt	B/Medium	-0.50	35	71	106	127	141	Civ
Japan	Otori	TB	960 std	D/Small		21	42	62	75	83	
Japan	Oyodo	CL	8164 std	B/Medium		87	173	260	311	346	
Japan	Riusi Maru	AK	845 std	D/Small	-0.50	10	19	29	34	38	Civ
Japan	Rio de Janerio Maru	AK/AS	9627 grt	B/Medium	-0.50	40	80	119	143	159	Civ
Japan	RO.11	SSC	1050 subm	D/Small	-0.65	8	16	23	28	31	1925, Sub
Japan	RO.16	SSC	1050 subm	D/Small	-0.65	8	16	23	28	31	1925, Sub
Japan	RO.26	SSC	1070 subm	D/Small	-0.65	8	16	23	28	31	1925, Sub
Japan	RO.29	SSC	1030 subm	D/Small	-0.65	8	15	23	27	30	1925, Sub
Japan	RO.33	SSC	1200 subm	D/Small	-0.50	12	24	36	43	48	Sub

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Japan	RO.35	SSC	1447 subm	D/Small	-0.50	14	28	41	50	55	Sub
Japan	RO.100	SSC	782 subm	D/Small	-0.50	9	18	27	32	36	Sub
Japan	Ryuho	CV	13360 std	B/Medium	-0.25	90	180	270	324	360	Special-25%
Japan	Ryujo	CVL	8180 std	B/Medium		87	173	260	311	346	
Japan	Ryujo (1934)	CVL	10600 std	B/Medium		103	206	308	370	411	
Japan	Ryujo (1940)	CVL	10600 std	B/Medium		103	206	308	370	411	
Japan	Saga	PG	685 std	D/Small	-0.15	14	28	42	50	56	1925
Japan	Sagara Maru	AV	7189 grt	C/Small	-0.35	43	85	128	153	170	MCnv
Japan	Awazisan Maru	AP	9800 grt	B/Medium	-0.50	40	81	121	145	161	Civ
Japan	Sakito Maru	Maru	7189 grt	C/Small	-0.50	33	66	98	118	131	Civ
Japan	Sakura	DD	605 std	D/Small	-0.15	13	26	39	47	52	1925
Japan	San Ramon	Maru	7309 grt	C/Small	-0.50	33	67	100	120	133	Civ
Japan	San'yo Maru	AV	8350 grt	B/Medium	-0.35	47	94	141	169	188	MCnv
Japan	Sarushima	CM	566 std	D/Small	-0.25	11	22	33	40	44	ML
Japan	Seia Maru	Maru	6757 grt	C/Small	-0.50	32	63	95	113	126	Civ
Japan	Sen-Yu-Sho	SS	493 subm	D/Small	-0.50	7	14	20	24	27	Sub
Japan	Sendai	CL	5195 std	C/Small	-0.15	54	109	163	195	217	1925
Japan	Senken Design A-150	BB	70000 std	A/Large		362	725	1087	1304	1449	
Japan	Senken Design A-220 (Design)	BB	59000 std	A/Large		323	647	970	1164	1293	
Japan	Senken Design A-220 (Estimated)	BB	90000 std	A/Large		429	857	1286	1543	1714	
Japan	Seta	PG	340 std	E/VSmall	-0.15	--	--	--	--	35	1925
Japan	Shimakaze	DD	2608 std	C/Small		40	81	121	145	161	
Japan	Shimushu	DE	860 std	D/Small		19	39	58	69	77	
Japan	Shinano (Design)	CV	62000 std	A/Large		334	668	1002	1202	1336	
Japan	Shinano (Transfer)	CV	62000 std	A/Large	-0.50	167	334	501	601	668	Special-50%.
Japan	Shinsei Maru No 18	AK	2711 grt	C/Small	-0.50	17	34	51	61	68	Civ
Japan	Shinshu Maru	LSD	9000 std	B/Medium	-0.25	69	139	208	249	277	Amphib
Japan	Shinyo	CVL	17500 std	B/Medium	-0.50	72	144	215	258	287	Civ
Japan	Shinyo Type 1 Mod 1	--	1.34 std	G/VSmall	-0.35	--	--	--	--	0.7	Wood
Japan	Shinyo Type 5	--	2.4 std	G/VSmall	-0.35	--	--	--	--	1	Wood
Japan	Shirataka	CM	1345 std	D/Small	-0.25	20	39	59	70	78	ML

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Japan	Shiratsuyu	DD	1712 std	C/Small		31	61	92	110	122	
Japan	Shiretoko	AO	14050 std	B/Medium	-0.25	93	186	279	335	372	Aux
Japan	Shoan Maru	Maru	5644 grt	C/Small	-0.50	28	56	84	101	112	Civ
Japan	Shokaku	CV	25675 std	A/Large		186	371	557	668	742	
Japan	Shonan Maru No. 15	PC	354 std	D/Small	-0.50	5	11	16	19	21	Civ
Japan	Shunko Maru	Maru	4000 grt	C/Small	-0.50	22	45	67	80	89	Civ
Japan	Sokuten	CM	720 std	D/Small	-0.25	13	26	38	46	51	ML
Japan	Sokuten	CMc	720 std	D/Small	-0.25	13	26	38	46	51	ML
Japan	Soryu	CV	15900 std	B/Medium		135	270	404	485	539	
Japan	Soryu (Hiryu)	CV	17300 std	B/Medium		143	285	428	513	570	
Japan	Soya	AE	3800 std	C/Small	-0.35	34	68	101	122	135	MCnv
Japan	SS Type	LCT	948 std	D/Small		21	41	62	74	82	
Japan	Sunosaki	AOG	4465 grt	C/Small		48	96	143	172	191	
Japan	T.1	PT	17 std	G/VSmall	-0.35	--	--	--	--	3.7	Wood
Japan	T.14	PT	15 std	G/VSmall	-0.35	--	--	--	--	3.4	Wood
Japan	T.15	PT	15 std	G/VSmall	-0.35	--	--	--	--	3.4	Wood
Japan	T.23 and T25	PT	20 std	G/VSmall	-0.35	--	--	--	--	4.1	Wood
Japan	T.31	PT	20 std	G/VSmall	-0.35	--	--	--	--	4.1	Wood
Japan	T.35	PT	20 std	G/VSmall	-0.35	--	--	--	--	4.1	Wood
Japan	T.51/T51a	PT	80 std	F/VSmall	-0.35	--	--	--	--	10	Wood
Japan	T.51b	PT	75 std	F/VSmall	-0.35	--	--	--	--	9.8	Wood
Japan	T.101	LST	950 std	D/Small	-0.25	16	31	47	56	62	Amphib
Japan	T.103	LST	870 std	D/Small	-0.25	15	29	44	52	58	Amphib
Japan	T1 First-Class Trans No.1	APD	1500 std	D/Small	-0.25	21	42	63	76	84	Amphib
Japan	Tachibana	DD	1309 std	D/Small		26	51	77	92	102	
Japan	Tagei (1934)	AS	10000 std	B/Medium	-0.25	74	149	223	267	297	Aux
Japan	Tagei (1937)	AS	10500 std	B/Medium	-0.25	77	154	230	276	307	Aux
Japan	Taiho	CV	29300 std	A/Large		203	406	608	730	811	
Japan	Taimei Maru	Maru	2883 grt	C/Small	-0.50	18	36	53	64	71	Civ
Japan	Taiyo	CVL	17830 std	B/Medium	-0.50	73	146	218	262	291	Civ
Japan	Takao	CA	13000 std	B/Medium	-0.15	100	201	301	361	401	ALS

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Japan	Takao (1939)	CA	13000 std	B/Medium	-0.15	100	201	301	361	401	ALS
Japan	Tama Maru	AMS	264 grt	E/VSmall	-0.50	--	--	--	--	14	Civ
Japan	Tanikaze	DD	1300 std	D/Small	-0.15	22	43	65	77	86	1925
Japan	Tatekawa Maru	AO	10000 grt	B/Medium	-0.50	41	82	122	147	163	Civ
Japan	Tenryu	CL	3230 std	C/Small	-0.15	40	79	119	142	158	1925
Japan	Tenyo Maru	CM	6843 grt	C/Small	-0.50	32	64	95	114	127	Civ
Japan	Toa Maru	AO	7064 grt	C/Small	-0.50	33	65	98	117	130	Civ
Japan	Toba	PG	250 std	E/VSmall	-0.15	--	--	--	--	29	1925
Japan	Toei Maru	Maru	4004 grt	C/Small	-0.50	22	45	67	80	89	Civ
Japan	Tokiwa	CM	9240 std	B/Medium	-0.15	80	160	239	287	319	1925
Japan	Toku Daihatsu	MLC	35 std	F/VSmall	-0.25	--	--	--	--	6.8	Amphib
Japan	Tone (1941)	CA	11231 std	B/Medium		107	214	321	385	428	
Japan	Tosa	BB	38500 std	A/Large	-0.15	207	414	620	744	827	1925
Japan	Toyooka Maru	Merchant	7375 grt	B/Medium	-0.65	23	47	70	84	93	1925, Civ
Japan	Tsugaru	CM	4000 std	C/Small	-0.25	40	81	121	145	161	Aux
Japan	Tsugaru Maru	Merchant	3484 grt	C/Small	-0.65	14	29	43	51	57	1925, Civ
Japan	Tsukushi	AGS	1400 std	D/Small	-0.25	20	40	60	72	80	Aux
Japan	Tsurigisaki	AS	9500 std	B/Medium		96	191	287	344	382	
Japan	Type 1 Kaiten	--	8.3 subm	G/VSmall	-0.50	--	--	--	--	1.7	Sub
Japan	Type 10 Kaiten	--	3 subm	G/VSmall	-0.50	--	--	--	--	0.9	Sub
Japan	Type A	MLC	20 std	G/VSmall	-0.25	--	--	--	--	4.7	Amphib
Japan	Type A Midget Sub	SSM	46 subm	F/VSmall	-0.50	1.38	2.75	4.13	4.95	5.5	Sub
Japan	Type B	MLC	12 std	G/VSmall	-0.60	--	--	--	--	1.8	Amphib, Wood
Japan	Type B Midget Sub	SSM	49 subm	F/VSmall		3	6	8	10	11	
Japan	Type C	MLC	26 std	F/VSmall	-0.25	--	--	--	--	5.6	Amphib
Japan	Type C Midget Sub	SSM	49 subm	F/VSmall	-0.50	1.43	2.85	4.28	5.13	5.7	Sub
Japan	Type D Midget Sub (Koryu)	SSM	63 subm	F/VSmall	-0.50	1.68	3.35	5.03	6.03	6.7	Sub
Japan	Ukuru	DE	940 std	D/Small		21	41	62	74	82	
Japan	Ukushima Maru	AMC	4730 grt	C/Small	-0.50	25	50	74	89	99	Civ
Japan	Umikaze	DD	1030 std	D/Small	-0.15	19	37	56	67	74	1925
Japan	Urakaze	DD	907 std	D/Small	-0.15	17	34	51	61	68	1925

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Japan	Unryu	CV	17290 std	B/Medium		143	285	428	513	570	
Japan	Vickers L1/L2 Type	SS	1195 subm	D/Small	-0.65	9	17	26	31	34	1925, Sub
Japan	Vickers L3 Type (RO.57)	SS	1195 subm	D/Small	-0.65	9	17	26	31	34	1925, Sub
Japan	Vickers L4 Type (RO.60)	SS	1322 subm	D/Small	-0.65	9	18	27	32	36	1925, Sub
Japan	W.1	AM	615 std	D/Small	-0.15	13	26	39	47	52	1925
Japan	W.5	AM	620 std	D/Small		16	31	47	56	62	
Japan	W.7	AM	630 std	D/Small		16	32	47	57	63	
Japan	W.13 (500)	AM	500 std	D/Small		14	27	41	49	54	
Japan	W.13 (691)	AM	691 std	D/Small		17	34	50	60	67	
Japan	W.17	AM	578 std	D/Small		15	30	44	53	59	
Japan	W.19	AM	648 std	D/Small		16	32	48	58	64	
Japan	Wa.1	MMS	215 std	E/VSmall	-0.35	--	--	--	--	20	Wood
Japan	Wakatake	DD	914 std	D/Small	-0.15	17	34	51	61	68	1925
Japan	Wakatake (1941)	DD	914 std	D/Small	-0.15	17	34	51	61	68	1925
Japan	Yaeyama	CM	1135 std	D/Small	-0.25	18	35	53	63	70	Aux
Japan	Yakumo	CR	9735 std	B/Medium	-0.15	83	165	248	297	330	1925
Japan	Yamashiro Maru	CVW	15864 std	B/Medium	-0.35	88	175	263	315	350	MCnv
Japan	Yamato	BB	64000 std	A/Large		341	683	1024	1229	1365	
Japan	Yoshida Maru No. 1	AP	5450 grt	C/Small	-0.65	19	38	57	68	76	1925, Civ
Japan	YU	SSC	370 subm	D/Small	-0.50	6	11	17	20	22	Sub
Japan	Yubari	CL	3387 std	C/Small	-0.15	41	82	122	147	163	1925
Japan	Yugumo	DD	2110 std	C/Small		35	70	105	126	140	
Japan	Zenyo Maru	Merch	6442 grt	C/Small	-0.50	31	61	92	110	122	Civ
Japan	Zuiho	CVL	11262 std	B/Medium	-0.25	80	161	241	289	321	Aux
Manchuko	Ex-IJN Momo	DD	1080 fl	D/Small	-0.15	17	34	51	61	68	1925
	Ex-Chinese Li Chieh, Ex-German										
Manchuko	Vaterland	PR	266 std	E/VSmall		--	--	--	--	35	
Manchuko	Shun Tien	PR	270 std	E/VSmall	-0.15	--	--	--	--	30	1925
Manchuko	Tatung	PC	65 std	F/VSmall		--	--	--	--	14	
Manchuko	Ting Pien	PR	290 std	E/VSmall		--	--	--	--	37	
Netherlands	A, B, C, D Type	YMA	179 std	E/VSmall		--	--	--	--	27	

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Netherlands	Albatros	PG	892 std	D/Small	-0.15	17	34	50	60	67	1925
Netherlands	Aldeberan	PG	892 std	D/Small	-0.15	17	34	50	60	67	1925
Netherlands	Alor	MMS	131 std	E/VSmall	-0.35	--	--	--	--	14	Wood
Netherlands	Ardjoeno	MMS	75 std	F/VSmall	-0.35	--	--	--	--	9.8	Wood
Netherlands	Arend	PG	775 std	D/Small		18	36	54	65	72	
Netherlands	B1 class	PGM	130 std	E/VSmall		--	--	--	--	22	
Netherlands	Bellatrix	PG	773 std	D/Small	-0.15	15	31	46	55	61	1925
Netherlands	De Ruyter (i)	CL	6450 std	B/Medium	-0.25	56	111	167	200	222	AAL
Netherlands	De Ruyter (ii)	CL	9529 std	B/Medium		96	192	287	345	383	
Netherlands	Djember	MMS	175 std	E/VSmall	-0.35	--	--	--	--	17	Wood
Netherlands	Dolfijn	SS	731 subm	D/Small	-0.50	9	18	26	32	35	Sub
Netherlands	Douwe Aukes	CM	687 std	D/Small	-0.40	10	20	30	36	40	1925, ML
Netherlands	Eendracht (original design)	CL	8350 std	B/Medium		88	176	263	316	351	
Netherlands	Eridanus	PG	996 std	D/Small	-0.15	18	36	54	65	72	1925
Netherlands	Ex-GB Colossus	CVL	16510 std	B/Medium		138	277	415	498	553	
Netherlands	Ex-GB H class	SS	434 subm	D/Small	-0.65	4	9	13	15	17	1925, Sub
Netherlands	Ex-GB N class	DD	1770 std	C/Small		31	63	94	113	125	
Netherlands	Ex-GB Nairana	CVE	13825 std	B/Medium	-0.50	62	123	185	221	246	Civ
Netherlands	Ex-GB T class	SS	1430 subm	D/Small	-0.50	14	27	41	49	54	Sub
Netherlands	Fazant	PG	624 std	D/Small		16	31	47	56	62	
Netherlands	Flores	PG	1457 std	D/Small	-0.15	23	47	70	84	93	1925
Netherlands	Fomalhout	PG	800 std	D/Small	-0.15	16	31	47	56	62	1925
Netherlands	Gadila	MAC	9249 grt	B/Medium	-0.50	39	78	116	140	155	Civ
Netherlands	Gemma	PG	845 std	D/Small	-0.15	16	33	49	59	65	1925
Netherlands	Gruno	PG	540 std	D/Small	-0.15	12	24	36	43	48	1925
Netherlands	Jacob van Heemskerck	CL	3787 std	C/Small		52	104	155	186	207	
Netherlands	Jan van Amstel	AM	450 std	D/Small	-0.25	10	19	29	34	38	
Netherlands	Johan Mauritas van Nassau	PG	1520 std	C/Small		28	57	85	102	113	
Netherlands	K.V	SS	639 subm	D/Small	-0.65	6	11	17	20	22	1925, Sub
Netherlands	K.VIII	SS	712 subm	D/Small	-0.65	6	12	18	22	24	1925,, Sub
Netherlands	K.XI	SS	815 subm	D/Small	-0.65	7	13	20	23	26	1925,, Sub

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Netherlands	K.XIV	SS	1008 subm	D/Small	-0.50	11	22	32	39	43	Sub
Netherlands	K.XIV (K.XVII, K.XVIII)	SS	1024 subm	D/Small	-0.50	11	22	32	39	43	
Netherlands	Krakatau	CM	982 std	D/Small	-0.40	13	26	38	46	51	1925, ML
Netherlands	Merapi	MMS	80 std	F/VSmall	-0.35	--	--	--	--	10	Wood
Netherlands	Merbaboe	MMS	80 std	F/VSmall	-0.35	--	--	--	--	10	Wood
Netherlands	Merel	PG	592 std	D/Small		15	30	45	54	60	
Netherlands	O.9	SS	647 subm	D/Small	-0.65	6	11	17	20	22	1925, Sub
Netherlands	O.12	SS	704 subm	D/Small	-0.50	9	17	26	31	34	Sub
Netherlands	O.14	SS	704 subm	D/Small	-0.50	9	17	26	31	34	Sub
Netherlands	O.16	SS	1200 subm	D/Small	-0.50	12	24	36	43	48	Sub
Netherlands	O.19	SS	1536 subm	C/Small	-0.50	14	29	43	51	57	Sub
Netherlands	O.21	SS	1380 subm	D/Small	-0.50	13	27	40	48	53	Sub
Netherlands	OJR1	PB	48 std	F/VSmall	-0.35	--	--	--	--	7.3	Wood
Netherlands	Orion	PG	1062 std	D/Small	-0.15	19	38	56	68	75	1925
Netherlands	P1 Type	PB	23 std	F/VSmall	-0.35	--	--	--	--	4.5	Wood
Netherlands	P9 Type	PB	26 std	F/VSmall	-0.35	--	--	--	--	4.9	Wood
Netherlands	P17 Type	PB	32 std	F/VSmall	-0.35	--	--	--	--	5.6	Wood
Netherlands	P37 Type	PB	35 std	F/VSmall	-0.35	--	--	--	--	5.9	Wood
Netherlands	Poolster	PG	1600 std	C/Small		29	59	88	105	117	
Netherlands	Prins van Oranje	CM	1291 std	D/Small	-0.25	19	38	57	68	76	ML
Netherlands	Pro Patria	CM	537 std	D/Small	-0.40	9	17	26	31	34	1925, ML
Netherlands	Projected Battlecruiser	BC	29750 std	A/Large		205	410	614	737	819	
Netherlands	Ram	CM	2400 std	C/Small	-0.25	29	58	86	104	115	ML
Netherlands	Rigel	PG	1631 std	C/Small		30	59	89	106	118	
Netherlands	S3	PB	28 std	F/VSmall	-0.35	--	--	--	--	5.1	Wood
Netherlands	S7	PB	45 std	F/VSmall	-0.35	--	--	--	--	7	Wood
Netherlands	Serdang	CM	680 std	D/Small	-0.40	10	20	30	36	40	1925, ML
Netherlands	Sirius	PG	930 std	D/Small	-0.15	17	35	52	62	69	1925
Netherlands	Soerabaja	AG	5644 std	B/Medium	-0.15	58	115	173	207	230	1925
Netherlands	Sumatra	CL	6670 std	B/Medium	-0.15	64	129	193	231	257	1925
Netherlands	Tjerk Hiddes	DD	1604 std	C/Small		29	59	88	105	117	

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Netherlands	TM.4	PT	17.5 std	G/VSmall		--	--	--	--	5.7	
Netherlands	TM.3	PT	17.5 std	G/VSmall		--	--	--	--	5.7	
Netherlands	Tromp	CL	3787 std	C/Small		52	104	155	186	207	
Netherlands	Tydeman	AGS	1160 std	D/Small	-0.40	14	28	42	50	56	1925, Aux
Netherlands	Van Galen	DD	1316 std	D/Small		26	51	77	92	102	
Netherlands	Van Ghent	DD	1316 std	D/Small		26	51	77	92	102	
Netherlands	Van Kinsbergen	PG	1760 std	C/Small		31	62	93	112	124	
Netherlands	Willebrod Snellius	AGS	930 std	D/Small	-0.25	15	31	46	55	61	Aux
Netherlands	Willem van der Zaan	CM	1300 std	D/Small	-0.25	19	38	57	68	76	ML
Netherlands	Zeehond	SS	768 subm	D/Small	-0.50	9	18	27	32	36	Sub
New Zealand	Ex-GB Dido second group	CL	5950 std	B/Medium		70	140	210	252	280	
New Zealand	Ex-GB Saint class	ATO	600 std	D/Small	-0.15	13	26	39	47	52	1925
New Zealand	GB Castle Class	PC	447 ltshp	D/Small	-0.50	7	14	20	24	27	Civ
New Zealand	GB Isles	PC	545 std	D/Small		14	29	43	51	57	
New Zealand	Kiwi	PC	600 std	D/Small		15	31	46	55	61	
New Zealand	Monowai	AMC	10852 grt	B/Medium	-0.50	43	86	129	155	172	Civ
Norway	A class	SSC	353 subm	D/Small	-0.65	4	8	11	14	15	1925, Sub
Norway	Alcmaria	MS	252 grt	E/VSmall	-0.15	--	--	--	--	24	1925
Norway	Alpha	PC	273 grt	E/VSmall	-0.65	--	--	--	--	10	1925, Civ
Norway	Alversund	PC	178 grt	E/VSmall	-0.50	--	--	--	--	11	Civ
Norway	Andenæs	PC	65 grt	F/VSmall	-0.75	--	--	--	--	2.8	1895, Civ
Norway	B Class	SSC	545 subm	D/Small	-0.65	5	10	15	18	20	1925, Sub
Norway	Beta	PC	168 grt	E/VSmall	-0.65	--	--	--	--	7.5	1925, Civ
Norway	Bjerk	MS	162 grt	E/VSmall	-0.65	--	--	--	--	7.3	1925, Civ
Norway	Blink	PC	38 std	F/VSmall	-0.25	--	--	--	--	7.2	1895
Norway	Bodo	PC	351 grt	E/VSmall	-0.50	--	--	--	--	17	Civ
Norway	Børtind	PC	382 grt	E/VSmall	-0.50	--	--	--	--	19	Civ
Norway	Brevik	MS	252 grt	E/VSmall	-0.50	--	--	--	--	14	Civ
Norway	Commonwealth	PC	179 grt	E/VSmall	-0.65	--	--	--	--	7.8	1925, Civ
Norway	Draug	DD	578 std	D/Small	-0.15	13	25	38	45	50	1925
Norway	Djerv	MS	67 std	F/VSmall	-0.15	--	--	--	--	12	1925

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Norway	Drøobak	MS	256 grt	E/VSmall	-0.50	--	--	--	--	14	Civ
Norway	Farm	PC	424 grt	E/VSmall	-0.65	--	--	--	--	14	1925, Civ
Norway	Firen	PC	247 grt	E/VSmall	-0.50	--	--	--	--	14	Civ
Norway	Fosen	PC	122 grt	E/VSmall	-0.65	--	--	--	--	6	1925, Civ
Norway	Fridtjof Nansen	PC	1275 std	D/Small		25	50	75	90	100	
Norway	Frøya	ML	595 std	D/Small	-0.40	9	18	27	32	36	1925, ML
Norway	Furu	PC	95 grt	F/VSmall	-0.75	--	--	--	--	3.7	1895, Civ
Norway	Glommen	ML	351 std	D/Small	-0.40	6	13	19	23	25	1925, ML
Norway	Gor	ML	351 std	D/Small	-0.50	5	11	16	19	21	1895, ML
Norway	Grimstad	MS	258 grt	E/VSmall	-0.50	--	--	--	--	14	Civ
Norway	Harald Haarfagre	BM	3858 std	C/Small	-0.15	45	89	134	160	178	1925
Norway	Harstad	MS	252 grt	E/VSmall	-0.50	--	--	--	--	14	Civ
Norway	Haug II	PC	239 grt	E/VSmall	-0.65	--	--	--	--	9.5	1925, civ
Norway	Haug III, Pol III, Hval II	PC	213 grt	E/VSmall	-0.65	--	--	--	--	8.8	1925, civ
Norway	Haus	PC	135 grt	E/VSmall	-0.65	--	--	--	--	6.5	1925, civ
Norway	Heilhorn	PC	198 grt	E/VSmall	-0.65	--	--	--	--	8.4	1925, civ
Norway	Heimdal	PC	578 std	D/Small	-0.25	11	22	33	40	44	1895
Norway	Honningsvåg	PC	487 grt	D/Small	-0.50	6	11	17	20	22	
Norway	Hval III, Hval IV, Hval VI, Hval VII, Oter I, Skudd 1, Skudd 2	PC	246 std	E/VSmall	-0.50	--	--	--	--	17	Civ
Norway	Hval V	MS	284 grt	E/VSmall	-0.50	--	--	--	--	15	Civ
Norway	Jo	TB	55 std	F/VSmall	-0.15	--	--	--	--	10	1925
Norway	John Williamson	MS	159 grt	E/VSmall	-0.65	--	--	--	--	7.2	1925, Civ
Norway	Karmøy	MS	249 grt	E/VSmall	-0.50	--	--	--	--	14	
Norway	Kelt	PC	376 grt	E/VSmall	-0.65	--	--	--	--	13	
Norway	Kos Whale Catchers	PC	248 grt	E/VSmall		--	--	--	--	28	
Norway	Kvitøy	PC	209 grt	E/VSmall	-0.65	--	--	--	--	8.7	1925, Civ
Norway	Lindaas	PC	139 grt	E/VSmall	-0.65	--	--	--	--	6.6	1925, Civ
Norway	Lyngdal	PC	149 grt	E/VSmall	-0.65	--	--	--	--	6.9	1925, Civ
Norway	Lyngen	AS	489 grt	D/Small	-0.65	4	8	11	14	15	1925, Civ
Norway	Mandal	MS	252 grt	E/VSmall	-0.50	--	--	--	--	14	Civ

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Norway	Mangar	PC	152 grt	E/VSmall	-0.65	--	--	--	--	7	1925, Civ
Norway	Michael Sars	PC	226 std	E/VSmall	-0.15	--	--	--	--	27	1925
Norway	Molde	PC	356 grt	E/VSmall	-0.50	--	--	--	--	18	Civ
Norway	Namsos	PC	569 grt	D/Small	-0.50	6	12	18	22	24	Civ
Norway	Narvik	PC	366 grt	E/VSmall	-0.50	--	--	--	--	18	Civ
Norway	Nauma	PC	219 grt	E/VSmall	-0.25	--	--	--	--	19	1895
Norway	Noble Nora	MS	160 grt	E/VSmall	-0.65	--	--	--	--	7.2	1925, Civ
Norway	Nor	ML	250 std	E/VSmall	-0.50	--	--	--	--	17	1895, ML
Norway	Nordhav II	PC	425 grt	E/VSmall	-0.65	--	--	--	--	14	1925, Civ
Norway	Nordkapp	PC	234 std	E/VSmall	--	--	--	--	--	32	
Norway	Norge	BM	4233 std	C/Small	-0.25	42	84	125	150	167	1925, Special-10%
Norway	Odin	TB	632 std	D/Small	--	16	32	47	57	63	
Norway	Olav Tryggvason	CM	1596 std	C/Small	-0.25	22	44	65	78	87	ML
Norway	Oskøoy	MS	249 grt	E/VSmall	-0.50	--	--	--	--	14	Civ
Norway	Oster	PC	189 grt	E/VSmall	-0.65	--	--	--	--	8.1	1925, Civ
Norway	Otra	MS	355 std	D/Small	--	11	22	32	39	43	
Norway	Øygar	PC	128 grt	E/VSmall	-0.65	--	--	--	--	6.2	1925, Civ
Norway	Polar IV	MS	286 grt	E/VSmall	-0.50	--	--	--	--	15	Civ
Norway	Ramoen	PC	299 grt	E/VSmall	-0.65	--	--	--	--	11	1925, Civ
Norway	Sarpen	AS	190 grt	E/VSmall	-0.75	--	--	--	--	5.8	1895, Civ
Norway	Sætre	PC	172 grt	E/VSmall	-0.65	--	--	--	--	7.6	1925, Civ
Norway	Senja	PC	243 std	E/VSmall	--	--	--	--	--	33	
Norway	Silhouette	MS	249 grt	E/VSmall	-0.50	--	--	--	--	14	Civ
Norway	Sleipnir	DD	597 std	D/Small	--	15	30	45	54	60	
Norway	Smart	PC	122 grt	E/VSmall	-0.65	--	--	--	--	6	1925, Civ
Norway	Snowdrift	MS	279 grt	E/VSmall	-0.50	--	--	--	--	15	Civ
Norway	Stenkjær	PC	159 grt	E/VSmall	-0.25	--	--	--	--	15	1895
Norway	Storm	TB	107 std	E/VSmall	-0.15	--	--	--	--	16	1925
Norway	Svalbard II	PC	275 grt	E/VSmall	-0.65	--	--	--	--	10	1925
Norway	Syrian	MS	298 grt	E/VSmall	-0.15	--	--	--	--	27	1925
Norway	Teist	TB	84 std	F/VSmall	-0.15	--	--	--	--	14	1925

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Norway	Thorodd	MS	422 grt	E/VSsmall		--	--	--	--	40	1925
Norway	Transvaalia	MS	160 grt	E/VSsmall	-0.65	--	--	--	--	7.2	1925, Civ
Norway	Treff	PC	204 grt	E/VSsmall	-0.65	--	--	--	--	8.5	1925, Civ
Norway	Trygg	TB	256 std	E/VSsmall	-0.15	--	--	--	--	29	1925
Norway	Tyr	ML	290 std	E/VSsmall	-0.50	--	--	--	--	19	1895, ML
Norway	Uller	ML	250 std	E/VSsmall	-0.50	--	--	--	--	17	1895, ML
Norway	Vardø	MS	252 grt	E/VSsmall	-0.50	--	--	--	--	14	Civ
Norway	Veslefrik	PC	169 grt	E/VSsmall	-0.65	--	--	--	--	7.5	1925, Civ
Norway	Vidar	ML	250 std	E/VSsmall	-0.50	--	--	--	--	17	1895, ML
Norway	ZN4	DD	1220 std	D/Small		24	49	73	87	97	
Pakistan	Ex-GB Dido second group	CL	5950 std	B/Medium		70	140	210	252	280	
Pakistan	Modified GB Bittern	DE	1340 std	D/Small		26	52	78	94	104	
Pakistan	Hindustan	DE	1190 std	D/Small		24	48	72	86	96	
Peru	Almirante Grau	CR	3200 std	C/Small	-0.15	39	79	118	141	157	1925
Peru	Ex-GB Uganda	CL	8875 std	B/Medium		91	183	274	329	365	
Peru	Ex-Russian Novik	DD	1100 std	D/Small	-0.15	19	39	58	69	77	1925
Peru	US R class	SS	755 subm	D/Small		18	36	53	64	71	
Poland	Grom	DD	2011 std	C/Small		34	68	102	122	136	
Poland	Orzel	SS	1450 subm	D/Small	-0.50	14	28	41	50	55	Sub
Poland	Wicher	DD	1378 std	D/Small		27	53	80	95	106	
Poland	Wilk	SS	1250 subm	D/Small	-0.50	12	25	37	44	49	Sub
Portugal	Ex-GB Bay class	FF	1580 std	C/Small	-0.25	22	44	65	78	87	MStd
Portugal	Ex-GB River class	DE	1460 std	D/Small	-0.25	21	41	62	74	82	MStd
Portugal	Ex-US Adjutant	MSC	375 std	D/Small	-0.35	7	15	22	26	29	Wood
Portugal	John C. Butler	DE	1430 std	D/Small		27	54	81	97	108	
Portugal	Macau	PR	95 ltshp	E/VSsmall	-0.15	--	--	--	--	16	1925
Portugal	Pero Escobar	FF	1250 std	D/Small		25	50	74	89	99	
Portugal	Ex-GB Ton	MSC	360 std	D/Small		11	22	32	39	43	
Portugal	Ex-US Agile	MSO	637 ltshp	D/Small	-0.35	11	22	33	40	44	Wood
Romania	Constanta	AS	2300 std	C/Small	-0.25	28	56	83	100	111	Aux
Romania	Delfinul	SS	900 subm	D/Small	-0.50	10	20	30	36	40	Sub

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Romania	Ex-French Frippone	PG	315 std	E/VSmall	-0.25	--	--	--	--	30	1925
Romania	Marasti (1926)	DD	1410 std	D/Small	-0.25	20	40	60	72	80	1925
Romania	Marsuinul (S2)	SS	630 subm	D/Small	-0.50	8	16	23	28	31	Sub
Romania	Naluca	TB	266 std	E/VSmall	-0.25	--	--	--	--	26	1925
Romania	Rechinul (S1)	SS	680 subm	D/Small	-0.50	8	17	25	30	33	Sub
Romania	Regele Ferdinand	DD	1400 std	D/Small		27	54	80	96	107	
Romania	Sborul	TB	262 std	E/VSmall	-0.25	--	--	--	--	26	1925
S. Africa	Ex-GB Barricade	AN	730 std	D/Small		17	35	52	62	69	
S. Africa	Ex-GB Loch	PF	1435 std	D/Small		27	54	81	97	108	
Siam	Bangrachan	CM	368 std	D/Small	-0.25	8	17	25	30	33	ML
Siam	CMB6	PT	16 std	G/VSmall	-0.25	--	--	--	--	4.1	Wood
Siam	Ex-GB Aberdare	PG	800 std	D/Small	-0.15	16	31	47	56	62	1925
Siam	Ex-GB R class	DD	975 std	D/Small	-0.15	18	36	53	64	71	1925
Siam	Kantan	TB	110 std	E/VSmall		--	--	--	--	20	
Siam	Puket	TB	318 std	E/VSmall		--	--	--	--	40	
Siam	Ratanakosindra	PG	886 std	D/Small	-0.15	17	34	50	60	67	1925
Siam	Sarasindhu	PC	50 std	F/VSmall	-0.35	--	--	--	--	7.5	Wood
Siam	Sinsamudar	SSC	430 subm	D/Small		12	25	37	44	49	
Siam	Sri Ayuthia	BM	2265 std	C/Small		37	74	110	132	147	
Siam	Tachin	PG	1400 std	D/Small		27	54	80	96	107	
Siam	Taksin	CL	5500 std	C/Small		67	133	200	239	266	
Spain	Canarias	CA	10113 std	B/Medium		100	200	299	359	399	
Spain	Churruca (1st Group)	DD	1536 std	C/Small		28	57	85	102	113	
Spain	Churruca (2nd Group)	DD	1536 std	C/Small		28	57	85	102	113	
Spain	Principe Alfonso	CL	7475 std	B/Medium	-0.15	69	139	208	249	277	1925
Turkey	Ataka	ML	500 std	D/Small	-0.50	7	14	20	24	27	Civ
Turkey	Ay' class	SS	1210 subm	D/Small	-0.50	12	24	36	43	48	Sub
Turkey	Batiray	SS	1375 subm	D/Small	-0.50	13	27	40	48	53	Sub
Turkey	Birindci Inonu	SSC	620 subm	D/Small	-0.50	8	16	23	28	31	Sub
Turkey	Dogan	PT	32 std	F/VSmall		--	--	--	--	8.6	
Turkey	Dumlupynar	SS	1150 subm	D/Small	-0.50	12	24	35	42	47	Sub

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Turkey	Ex-German Moltke (1930)	BC	22734 std	A/Large	-0.15	146	291	437	524	582	1925
Turkey	Gayret	DD	1360 std	D/Small		26	53	79	95	105	
Turkey	Gur	SS	860 subm	D/Small	-0.50	10	20	29	35	39	Sub
Turkey	Hamidieh (1926)	CR	3830 std	C/Small	-0.15	44	89	133	159	177	1925
Turkey	Kocatepe	DD	1250 std	D/Small		25	50	74	89	99	
Turkey	Medjidieh	CL	3500 std	C/Small	-0.15	42	84	125	150	167	1925
Turkey	MTB1	PG	70 std	F/VSmall		--	--	--	--	14	
Turkey	Oruc Reis	SS	861 subm	D/Small	-0.50	10	20	29	35	39	Sub
Turkey	Sakarya	SS	940 subm	D/Small	-0.50	10	21	31	37	41	Sub
Turkey	Sivrihisar	ML	350 std	E/VSmall	-0.25	--	--	--	--	32	ML
Turkey	Tinaztepe	DD	1206 std	D/Small		24	49	73	87	97	
USA	Accentor	MSC	190 std	E/VSmall	-0.35	--	--	--	--	18	Wood
USA	Achelous	ARL	1490 ltshp	C/Small	-0.25	23	45	68	81	90	Amphib
USA	Acontius	AGP	5236 std	C/Small	-0.35	42	84	125	150	167	MCnv
USA	Action	PG	1110 std	D/Small	-0.25	17	35	52	62	69	MStd
USA	Admirable	MS	795 std	D/Small		18	37	55	66	73	
USA	Adria	AF	3139 ltshp	C/Small	-0.50	25	50	74	89	99	Civ
USA	Adroit	MMS	414 std	D/Small		12	24	35	42	47	
USA	Alamosa	AK	2382 ltshp	C/Small	-0.50	21	41	62	74	82	Civ
USA	Alaska	CB	29799 std	A/Large		205	410	615	738	820	
USA	Alaska (Bywater)	CV	23000 std	A/Large		173	345	518	621	690	
USA	Alaska Command Cruiser	CBC	25000 std	A/Large		182	365	547	656	729	
USA	Alaska Guided Missile Cruiser	CBG	25000 std	A/Large		182	365	547	656	729	
USA	Albany (Bywater)	CA	10000 std	B/Medium		99	198	297	356	396	
USA	Algorma	ATO	1080 std	D/Small	-0.15	19	38	57	68	76	1925
USA	Alhena	AK/AKA	7101 ltshp	B/Medium	-0.50	43	86	128	154	171	Civ
USA	Alianthus	AN	1190 fl	D/Small	-0.35	14	28	42	50	56	Wood
USA	Allen M. Sumner	DD	2610 std	C/Small		41	81	122	146	162	
USA	Aloe	YN	700 std	D/Small	-0.25	13	25	38	45	50	Aux
USA	Altair	AD	6250 std	B/Medium	-0.40	44	87	131	157	174	1925, Aux
USA	Ancon	AGC	10021 ltshp	B/Medium	-0.50	54	108	161	194	215	Civ

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
USA	Andromeda	AKA	6556 ltshp	B/Medium	-0.50	41	81	122	146	162	Civ
USA	APc-1	APc	102 ltshp	E/VSmall	-0.35	--	--	--	--	13	Wood
USA	Appalachian	AGC	7431 ltshp	B/Medium	-0.25	66	132	198	238	264	Aux
USA	Arctic	AF	4980 std	C/Small	-0.40	37	75	112	134	149	1925, Aux
USA	Arcturus	AKA	7293 ltshp	B/Medium	-0.50	44	87	131	157	174	Civ
USA	Argonaut	SS	4164 subm	C/Small	-0.50	28	55	83	99	110	Sub
USA	Argonne	AG	8400 std	B/Medium	-0.40	53	106	158	190	211	1925, Aux
USA	Artemis	AKA	4100 ltshp	C/Small	-0.50	30	59	89	106	118	Civ
USA	Arthur Middleton	APA	10812 std	B/Medium	-0.50	52	104	156	187	208	Civ
USA	Asheville	PG	1270 std	D/Small	-0.15	21	43	64	77	85	1925
USA	Ashland	LSD	4270 std	C/Small	-0.25	42	84	126	151	168	Amphib
USA	Atlanta	CL	6718 std	B/Medium		76	152	228	274	304	
USA	Bagley	DD	1646 std	C/Small		30	60	89	107	119	
USA	Balao	SS	2424 subm	C/Small	-0.50	19	39	58	69	77	Sub
USA	Baltimore	CA	13600 std	B/Medium		122	243	365	437	486	
USA	Barnegat	AVP	1695 std	C/Small	-0.25	23	46	68	82	91	Aux
USA	Barracuda	SS	2506 subm	C/Small	-0.65	14	28	41	50	55	1925, Sub
USA	Bayfield	APA	7845 ltshp	B/Medium	-0.50	46	92	137	165	183	Civ
USA	Benham	DD	1637 std	C/Small		30	59	89	106	118	
USA	Benson	DD	1839 std	C/Small		32	64	96	115	128	
USA	Black Hawk	AD	5600 std	B/Medium	-0.65	24	47	71	85	94	1925, Civ
USA	Blue Ridge	AGC	7240 std	B/Medium	-0.35	52	104	155	186	207	MCnv
USA	Bogue	CVE	9800 std	B/Medium	-0.25	73	147	220	264	293	MStd
USA	Bountiful	AH	7750 std	B/Medium	-0.40	50	100	150	180	200	1925, Aux
USA	Bowdich	AG	7680 ltshp	B/Medium	-0.65	32	63	95	113	126	1925, Civ
USA	Bridge	AF	5001 std	C/Small	-0.40	38	75	113	135	150	1925, Aux
USA	Bristol	DD	1630 std	C/Small		30	59	89	106	118	
USA	Bristol (Minelayer)	DM	1630 std	C/Small		30	59	89	106	118	
USA	Brooklyn first group	CL	9700 std	B/Medium		97	194	291	349	388	
USA	Brooklyn second group	CL	10000 std	B/Medium		99	198	297	356	396	
USA	Buckley	DE	1432 std	D/Small		27	54	81	97	108	

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
USA	Cachalot	SS	1650 subm	C/Small	-0.50	15	30	44	53	59	Sub
USA	Caldwell (1941)	APD	1020 std	D/Small	-0.15	18	37	55	66	73	1925
USA	Cannon	DE	1253 std	D/Small		25	50	74	89	99	
USA	Canopus	AS	5975 std	B/Medium	-0.40	42	84	126	151	168	1925, Aux
USA	Casa Grande	LSD	4500 std	C/Small	-0.25	44	87	131	157	174	Amphib
USA	Casablanca	CVE	8188 std	B/Medium	-0.25	65	130	195	234	260	MStd
USA	Cascade	AD	7459 std	B/Medium	-0.25	61	122	183	220	244	Aux
USA	Castor	AKS	5185 ltshp	B/Medium	-0.50	35	70	104	125	139	Civ
USA	Catskill	LSV	5875 std	B/Medium	-0.25	52	104	156	187	208	Amphib
USA	Charger	CVE	11989 std	B/Medium	-0.35	73	145	218	261	290	MCnv
USA	Charles Lawrence	APD	1725 std	C/Small		31	62	92	111	123	
USA	Chester	CL	3400 std	C/Small	-0.15	41	82	123	148	164	1925
USA	Cimarron	AO	7256 std	B/Medium	-0.25	60	120	180	216	240	Aux
USA	Cincinnati	CL	7500 std	B/Medium	-0.15	70	139	209	250	278	1925
USA	Clemson (1938)	AVP	1060 std	D/Small	-0.15	19	38	56	68	75	1925
USA	Clemson (Minesweeper)	DMS	1060 std	D/Small	-0.15	19	38	56	68	75	1925
USA	Cleveland	CL	10000 std	B/Medium		99	198	297	356	396	
USA	Colorado	BB	32500 std	A/Large	-0.15	185	369	554	664	738	1925
USA	Colorado (1929)	BB	32500 std	A/Large	-0.15	185	369	554	664	738	1925
USA	Comfort	AH	6000 ltshp	B/Medium	-0.50	38	77	115	138	153	Civ
USA	Commencement Bay	CVE	10900 std	B/Medium	-0.25	79	157	236	283	314	MStd
USA	Coral Sea	CV	50075 std	A/Large		290	580	869	1043	1159	
USA	Crescent City	APA	8429 std	B/Medium	-0.50	44	89	133	159	177	Civ
USA	Crosley	APD	1725 std	C/Small		31	62	92	111	123	
USA	Cruiser Submarine	SSM	4164 subm	C/Small	-0.65	19	39	58	69	77	1925, Sub
USA	Crystal	PY	954 grt	D/Small	-0.35	11	22	33	40	44	Mcon
USA	Currituck	AV	9090 ltshp	B/Medium	-0.25	76	151	227	272	302	Aux
USA	Curtiss	AV	8625 std	B/Medium	-0.25	67	135	202	242	269	Aux
USA	Delta	AR	8975 ltshp	B/Medium	-0.50	50	100	150	180	200	Civ
USA	Denver	CR	3200 std	C/Small	-0.15	39	79	118	141	157	1925
USA	Des Moines	CA	19930 std	A/Large		157	314	470	564	627	

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
USA	Dixie	AD	9000 std	B/Medium	-0.25	69	139	208	249	277	Aux
USA	Dobbin	AD	8325 std	B/Medium	-0.40	53	105	158	189	210	1925, Aux
USA	Dolphin	SS	2215 subm	C/Small	-0.50	18	36	54	65	72	Sub
USA	Doyen	APA	4351 std	C/Small	-0.50	29	57	86	103	114	Civ
USA	Eagle Boat	PE	615 fl	D/Small	-0.15	12	24	35	42	47	1925
USA	Edsall	DE	1253 std	D/Small		25	50	74	89	99	
USA	Edsall (DER)	DER	1200 std	D/Small		24	48	72	86	96	
USA	Elco 77'	PT	46 std	F/VSmall	-0.35	--	--	--	--	7.1	Wood
USA	Elco 80'	PT	50 std	F/VSmall	-0.35	--	--	--	--	7.5	Wood
USA	Eldorado	AGC	7500 ltshp	B/Medium	-0.50	44	89	133	159	177	Civ
USA	Ellyson (Gleaves MS)	DMS	1830 std	C/Small		32	64	95	114	127	
USA	Erie	PG	2000 std	C/Small		34	68	101	122	135	
USA	Essex	CV	27208 std	A/Large		193	386	579	695	772	
USA	Evarts	DE	1192 std	D/Small		24	48	72	86	96	
USA	Fargo (1942 BuShips design)	CL	11744 std	B/Medium		110	221	331	397	441	
USA	Farragut	DD	1365 std	D/Small		26	53	79	95	105	
USA	Fletcher	DD	2200 std	C/Small		36	72	108	130	144	
USA	Fomalhaut	AK	7480 ltshp	B/Medium	-0.50	44	89	133	159	177	Civ
USA	Frederick Funston	APA	10967 ltshp	B/Medium	-0.50	57	114	171	205	228	Civ
USA	Fulton	AS	9000 std	B/Medium	-0.25	69	139	208	249	277	Aux
USA	Galveston	CA	10000 std	B/Medium		99	198	297	356	396	
USA	Gar	SS	2370 subm	C/Small	-0.50	19	38	57	68	76	Sub
USA	Gato	SS	2410 subm	C/Small	-0.50	19	39	58	69	77	Sub
USA	Gearing	DD	2616 std	C/Small		41	81	122	146	162	
USA	General John Pope	AP	19650 std	A/Large	-0.50	78	156	233	280	311	Civ
USA	Gilliam	APA	4247 std	C/Small	-0.50	28	56	84	101	112	Civ
USA	Gridley	DD	1590 std	C/Small		29	58	87	104	116	
USA	Hamul	AK	6200 grt	C/Small	-0.50	30	60	89	107	119	Civ
USA	Harris	APA	13529 std	B/Medium	-0.65	42	85	127	152	169	1925, Civ
USA	Harry Lee	AP	9359 grt	B/Medium	-0.25	59	117	176	211	234	Aux
USA	Haskell	APA	6873 ltshp	B/Medium	-0.50	42	84	125	150	167	Civ

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
USA	Haven	AH	11141 ltshp	B/Medium	-0.50	58	116	173	208	231	Civ
USA	Henderson	AP	7750 std	B/Medium	-0.40	50	100	150	180	200	1925, Aux
USA	Heywood	APA	8000 ltshp	B/Medium	-0.65	32	65	97	116	129	1925, Civ
USA	Higgins 78'	PT	48 std	F/VSmall	-0.35	--	--	--	--	7.3	Wood
USA	Hilo	AGP	1839 grt	D/Small	-0.50	13	27	40	48	53	Civ
USA	Holland	AS	8100 std	B/Medium	-0.40	52	103	155	185	206	1925, Aux
USA	Huckins 78'	PT	48 std	F/VSmall	-0.35	--	--	--	--	7.3	Wood
USA	Independence	CVL	11000 std	B/Medium		106	211	317	380	422	
USA	Indus	AKN	4023 ltshp	C/Small	-0.50	29	59	88	105	117	Civ
USA	Iowa	BB	45000 std	A/Large		270	540	809	971	1079	
USA	Iowa Ballistic Missile Monitor	BBMG	40000 std	A/Large		250	499	749	898	998	
USA	Iowa Ballistic Missile Monitor II	BBMG	40000 std	A/Large		250	499	749	898	998	
USA	Iowa Battle Carrier Conversion	CVB	40500 std	A/Large		252	503	755	905	1006	
USA	Iowa Command/Heavy Assault Ship	LC?	44000 std	A/Large		266	532	797	957	1063	
USA	Iowa Guided Missile BB	BBG	44000 std	A/Large		266	532	797	957	1063	
USA	Isabel	PY	710 std	D/Small	-0.65	6	12	18	22	24	1925, Civ
USA	Jason	ARH	9430 ltshp	B/Medium	-0.25	78	155	233	279	310	Aux
USA	Jeremiah O'Brien	AK	7100 grt	C/Small	-0.50	33	65	98	117	130	Civ
USA	John Blish	AGS	245 ltshp	E/VSmall		--	--	--	--	36	
USA	John C. Butler	DE	1430 std	D/Small		27	54	81	97	108	
USA	John C. Butler (DER)	DER	1450 std	D/Small		27	55	82	98	109	
USA	Kanawha	AO	5950 std	B/Medium	-0.40	42	84	126	151	168	1925, Aux
USA	Kaweah	AO	5450 std	C/Small	-0.40	40	79	119	142	158	1925, Aux
USA	Kennebec	AO	5958 std	B/Medium	-0.50	35	70	105	126	140	Civ
USA	Kenneth Whiting	AV	8560 std	B/Medium	-0.25	67	134	201	241	268	Aux
USA	La Salle	AP	6556 ltshp	B/Medium	-0.50	41	81	122	146	162	Civ
USA	Langley	CV	13000 std	B/Medium	-0.15	100	201	301	361	401	1925
USA	Langley (1937)	AV	11050 std	B/Medium	-0.40	64	127	191	229	254	1925, Aux
USA	Lapwing	MS	840 std	D/Small	-0.35	12	25	37	44	49	Wood
USA	Lapwing (AVP conversion)	AVP	840 std	D/Small	-0.35	12	25	37	44	49	Wood
USA	LCC(1)	LCC	30 std	F/VSmall	-0.25	--	--	--	--	6.2	Amphib

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
USA	LCC(2)	LCC	30 std	F/VSmall	-0.25	--	--	--	--	6.2	Amphib
USA	LCI-1	LCI	216 std	E/VSmall	-0.25	--	--	--	--	23	Amphib
USA	LCI(G)(2)	LCI	246 ltshp	E/VSmall	-0.25	--	--	--	--	27	Amphib
USA	LCI(L)-1	LCI(L)	238 std	E/VSmall	-0.25	--	--	--	--	25	Amphib
USA	LCI(L)-351	LCI(L)	258 std	E/VSmall	-0.25	--	--	--	--	26	Amphib
USA	LCI(R)-	LCI	246 std	E/VSmall	-0.25	--	--	--	--	25	Amphib
USA	LCM(2)	LCM	24 ltshp	F/VSmall	-0.25	--	--	--	--	5.8	Amphib
USA	LCM(3)	LCM	26 ltshp	F/VSmall	-0.25	--	--	--	--	6.1	Amphib
USA	LCM(6)	LCM	26 ltshp	F/VSmall	-0.25	--	--	--	--	6.1	Amphib
USA	LCP(L)	LCP	8 fl	G/VSmall	-0.25	--	--	--	--	2.3	Amphib
USA	LCP(R)-	LCP	8 fl	G/VSmall	-0.25	--	--	--	--	2.3	Amphib
USA	LCS(L)(3)	LCS(L)	387 std	D/Small	-0.25	9	17	26	31	34	Amphib
USA	LCS(S)(2)	LCS(S)	10.3 std	G/VSmall	-0.25	--	--	--	--	3	Amphib
USA	LCT(5)	LCT	283 fl	E/VSmall	-0.25	--	--	--	--	25	Amphib
USA	LCT(6)	LCT	132 ltshp	E/VSmall	-0.25	--	--	--	--	18	Amphib
USA	LCV	LCV	8 ltshp	G/VSmall	-0.25	--	--	--	--	2.8	Amphib
USA	LCVP	LCVP	8 ltshp	G/VSmall	-0.25	--	--	--	--	2.8	Amphib
USA	Lexington (BC)	BC	43500 std	A/Large	-0.15	224	449	673	807	897	1925
USA	Lexington (CV)	CV	36220 std	A/Large	-0.15	199	397	596	715	794	1925
USA	Long Island	CVE	8012 std	B/Medium	-0.35	56	111	167	200	222	MCnv
USA	LSM-1	LSM	480 std	D/Small	-0.25	10	20	29	35	39	Amphib
USA	LSM(R)-401	LSM	790 std	D/Small	-0.25	14	28	41	50	55	Amphib
USA	LST	LST	2160 std	C/Small	-0.25	27	54	80	96	107	Amphib
USA	LST-542	LST	1625 ltshp	C/Small	-0.25	24	48	72	86	96	Amphib
USA	Luzon	ARG	4023 ltshp	C/Small	-0.25	44	88	131	158	175	Aux
USA	Mackerel	SS	1179 subm	D/Small	-0.50	12	24	36	43	48	Sub
USA	Magnet	AGD	640 std	D/Small		16	32	47	57	63	
USA	Mahan	DD	1500 std	D/Small		28	56	84	101	112	
USA	McCawley	AP	7858 std	B/Medium	-0.50	42	84	126	151	168	Civ
USA	Medusa	AR	8125 std	B/Medium	-0.40	52	104	155	186	207	1925, Aux
USA	Melville	AD	5250 std	C/Small	-0.40	39	77	116	139	154	1925, Aux

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
USA	Midway	CV	50075 std	A/Large		290	580	869	1043	1159	
USA	Mindanao	PR	560 std	D/Small		15	29	44	52	58	
USA	Monadnock	CM	3638 std	C/Small	-0.50	25	51	76	91	101	1925, MCnv
USA	Monocacy	PR	190 std	E/VSmall	0.85	--	--	--	--	52	
USA	Montana	BB	63221 std	A/Large		339	677	1016	1219	1354	
USA	Mount Baker	AE	6350 ltshp	B/Medium	-0.50	40	80	119	143	159	Civ
USA	Mount McKinley	AGC	13190 std	B/Medium	-0.25	89	179	268	321	357	Aux
USA	Narwhal	SS	3960 subm	C/Small	-0.50	27	54	80	96	107	Sub
USA	Navajo	ATF	1450 std	D/Small		27	55	82	98	109	
USA	Nevada	BB	27500 std	A/Large	-0.15	165	330	495	594	660	1925
USA	Nevada (1930)	BB	29000 std	A/Large	-0.15	171	342	513	616	684	1925
USA	New Mexico	BB	32000 std	A/Large	-0.15	183	366	548	658	731	1925
USA	New Mexico (1934)	BB	33400 std	A/Large	-0.15	188	376	564	677	752	1925
USA	New Orleans	CA	10050 std	B/Medium		99	199	298	357	397	
USA	New York	BB	27000 std	A/Large	-0.15	163	326	489	587	652	1925
USA	New York (1927)	BB	27000 std	A/Large	-0.15	163	326	489	587	652	1925
USA	Niagara	PG	1333 grt	D/Small	-0.50	11	22	32	39	43	Civ
USA	North Carolina	BB	35000 std	A/Large		228	457	685	822	913	
USA	Northampton	CA	9050 std	B/Medium		93	185	278	333	370	
USA	O class	SS	624 subm	D/Small	-0.65	6	11	17	20	22	1925, Sub
USA	Oakland first group	CL	6718 std	B/Medium		76	152	228	274	304	
USA	Oakland second group	CL	6718 std	B/Medium		76	152	228	274	304	
USA	Oglala	CM	4200 std	C/Small	-0.50	28	56	83	100	111	1925, MCnv
USA	Omaha	CL	7050 std	B/Medium	-0.15	67	133	200	239	266	1925
USA	Oregon City	CA	14472 std	B/Medium		127	253	380	455	506	
USA	Ormsby	APA	7300 ltshp	B/Medium	-0.50	44	87	131	157	174	Civ
USA	Osage	LSV	5625 std	B/Medium	-0.25	51	101	152	182	202	Amphib
USA	Otus	AS	6750 grt	C/Small	-0.50	32	63	95	113	126	Civ
USA	Panay	PR	450 std	D/Small		13	25	38	45	50	
USA	Pasig	AW	5332 ltshp	B/Medium	-0.50	35	71	106	127	141	Civ
USA	Patapsco	AOG	2300 std	C/Small	-0.25	28	56	83	100	111	Aux

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
USA	Patoka	AO	5422 std	C/Small	-0.40	40	79	119	142	158	1925, Aux
USA	PC-461	PC	414 std	D/Small		12	24	35	42	47	
USA	PCE-842	PC	640 std	D/Small		16	32	47	57	63	
USA	PCE(R)-848	PC	640 std	D/Small		16	32	47	57	63	
USA	PCS/YMS	MMS	251 std	E/VSmall	-0.35	--	--	--	--	22	Wood
USA	PCS-1334	PC	267 std	E/VSmall	-0.35	--	--	--	--	23	Wood
USA	PCS-1376	PC	251 std	E/VSmall	-0.25	--	--	--	--	25	AAL
USA	Pelias	AS	7886 grt	B/Medium	-0.25	52	105	157	188	209	Aux
USA	Pennsylvania (i)	CR	13400 std	B/Medium	-0.15	102	205	307	368	409	1925
USA	Pennsylvania (ii)	BB	31400 std	A/Large	-0.15	181	361	542	650	722	1925
USA	Pennsylvania (ii) (1931)	BB	33100 std	A/Large	-0.15	187	374	560	672	747	1925
USA	Pensacola	CA	9100 std	B/Medium		93	186	279	335	372	
USA	Porpoise first group	SS	1934 subm	C/Small	-0.50	17	33	50	59	66	Sub
USA	Porpoise second group	SS	1968 subm	C/Small	-0.50	17	34	50	60	67	Sub
USA	Porpoise third group	SS	1997 subm	C/Small	-0.50	17	34	51	61	68	Sub
USA	Porter	DD	1850 std	C/Small		32	64	96	115	128	
USA	Portland	CA	9800 std	B/Medium		98	195	293	351	390	
USA	Portunus	AGP	1653 std	C/Small	-0.25	22	45	67	80	89	Amphib
USA	President Jackson	APA	9500 ltshp	B/Medium	-0.50	52	104	155	186	207	Civ
USA	Providence (CLV-1)	CVL	10000 std	B/Medium		99	198	297	356	396	
USA	Pyro	AE	7025 std	B/Medium	-0.40	47	94	141	169	188	1925, Aux
USA	R class	SS	680 subm	D/Small	-0.65	6	12	17	21	23	1925, Sub
USA	Ranger	CV	14500 std	B/Medium		127	254	380	456	507	
USA	Raven	MS	810 std	D/Small		19	37	56	67	74	
USA	Raven (Auk)	MS	890 std	D/Small		20	40	59	71	79	
USA	Relief	AH	7275 std	B/Medium	-0.40	48	96	144	173	192	1925, Aux
USA	Robert H. Smith	DM	2610 std	C/Small		41	81	122	146	162	
USA	Rudderow	DE	1430 std	D/Small		27	54	81	97	108	
USA	S class first group	SS	1062 subm	D/Small	-0.65	8	16	23	28	31	1925, Sub
USA	S class second group	SS	1092 subm	D/Small	-0.65	8	16	24	29	32	1925, Sub
USA	S class third group	SS	1126 subm	D/Small	-0.65	8	16	24	29	32	1925, Sub

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
USA	S class fourth group	SS	1230 subm	D/Small	-0.65	9	17	26	31	34	1925, Sub
USA	Sacramento	PG	1140 std	D/Small	-0.15	20	40	59	71	79	1925
USA	Saipan	CVL	14500 std	B/Medium		127	254	380	456	507	
USA	Salmon, Sargo first group	SS	2198 subm	C/Small	-0.50	18	36	54	65	72	Sub
USA	Sampson	DD	920 std	D/Small	-0.15	17	34	51	61	68	1925
USA	Sangamon	CVE	11400 std	B/Medium	-0.35	70	141	211	253	281	MCnv
USA	Sangay	AE	5826 ltshp	B/Medium	-0.50	38	75	113	135	150	Civ
USA	Saratoga (1942)	CV	36220 std	A/Large	-0.15	199	397	596	715	794	1925
USA	Sargo second group	SS	2350 subm	C/Small	-0.50	19	38	56	68	75	Sub
USA	SC	PC	121 std	E/VSmall	-0.35	--	--	--	--	14	Wood
USA	SC-497	PC	121 std	E/VSmall	-0.35	--	--	--	--	14	Wood
USA	Sims	DD	1764 std	C/Small		31	62	93	112	124	
USA	Solace	AH	6209 grt	C/Small	-0.25	45	89	134	160	178	Aux
USA	Somers/Sampson	DD	2079 std	C/Small		35	70	104	125	139	
USA	Sonoma	AT	1200 ltshp	D/Small	-0.15	22	45	67	80	89	1925
USA	South Dakota	BB	35412 std	A/Large		230	460	690	828	920	
USA	South Dakota (BB-49)	BB	41400 std	A/Large	-0.15	217	434	651	781	868	1925
USA	St. Louis	CR	9700 std	B/Medium	-0.15	83	165	248	297	330	1925
USA	Stag	AW	3745 ltshp	C/Small	-0.50	28	56	84	101	112	Civ
USA	Stratford	AP	2268 grt	C/Small	-0.65	11	21	32	38	42	1925, Civ
USA	Suamico	AO	5730 std	B/Medium	-0.50	34	68	102	122	136	Civ
USA	Sumner	AGS	2900 std	C/Small	-0.40	26	52	78	94	104	1925, Aux
USA	Sumter	APA	8355 ltshp	B/Medium	-0.50	48	95	143	171	190	Civ
USA	Tambor	SS	2370 subm	C/Small	-0.50	19	38	57	68	76	Sub
USA	Tangier	AV	8560 std	B/Medium	-0.25	67	134	201	241	268	Aux
USA	Temptress	PG	1110 std	D/Small	-0.25	17	35	52	62	69	MStd
USA	Tench	SS	2440 subm	C/Small	-0.50	19	39	58	69	77	Sub
USA	Tennessee (CR)	CR	14500 std	B/Medium	-0.15	108	216	323	388	431	1925
USA	Tennessee (BB)	BB	32300 std	A/Large	-0.15	184	368	551	662	735	1925
USA	Tennessee (1930)	BB	32300 std	A/Large	-0.15	184	368	551	662	735	1925
USA	Tennessee (1943)	BB	35200 std	A/Large	-0.15	195	390	584	701	779	1925

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
USA	Terror	CM	5875 std	B/Medium	-0.25	52	104	156	187	208	Aux
USA	Tolland	AKA	6318 ltshp	B/Medium	-0.50	40	79	119	142	158	Civ
USA	Tucker	DD	1090 std	D/Small	-0.15	19	39	58	69	77	1925
USA	Utah	AG	18001 std	A/Large	-0.15	125	249	374	448	498	1925
USA	Utah (1928)	BB	21825 std	A/Large	-0.15	142	283	425	509	566	1925
USA	Vestal	AR	6625 std	B/Medium	-0.40	45	90	135	162	180	1925, Aux
USA	Victory Ship	AK	4420 ltshp	C/Small	-0.50	31	63	94	113	125	Civ
USA	Vulcan	AR	9430 ltshp	B/Medium	-0.25	78	155	233	279	310	Aux
USA	Wake (Guam)	PR	370 std	D/Small		11	22	33	40	44	
USA	Wasp	CV	14700 std	B/Medium		128	256	384	461	512	
USA	West Virginia (1944)	BB	32500 std	A/Large	-0.15	185	369	554	664	738	1925
USA	Wichita	CA	9324 std	B/Medium		95	189	284	340	378	
USA	Wickes (1160 t)	DD	1160 std	D/Small	-0.15	20	40	60	72	80	1925
USA	Wickes (Clemson) (1120 t)	DD	1120 std	D/Small	-0.15	20	39	59	70	78	1925
USA	Wickes (1942)	APD	1060 std	D/Small	-0.15	19	38	56	68	75	1925
USA	Wickes (Minelayer)	DM	1060 std	D/Small	-0.15	19	38	56	68	75	1925
USA	Wickes (Minesweeper I)	DMS	1060 std	D/Small	-0.15	19	38	56	68	75	1925
USA	Wickes (Minesweeper II)	DMS	1060 std	D/Small	-0.15	19	38	56	68	75	1925
USA	Wickes/Clemson (LRE)	DE	1090 std	D/Small	-0.15	19	39	58	69	77	1925
USA	Windsor	APA	8276 ltshp	B/Medium	-0.50	47	95	142	170	189	Civ
USA	Worcester	CL	17400 std	B/Medium		143	287	430	516	573	
USA	Wright	AV	8400 std	B/Medium	-0.40	53	106	158	190	211	1925, Aux
USA	Wyoming	BB	26100 std	A/Large	-0.15	160	319	479	574	638	1925
USA	Wyoming (1928)	BB	26100 std	A/Large	-0.15	160	319	479	574	638	1925
USA	Xanthus	AR	5801 ltshp	B/Medium	-0.50	37	75	112	134	149	Civ
USA	YDG-8	YDG	640 std	D/Small		16	32	47	57	63	
USA	YMS-1	YMS	207 std	E/VSmall	-0.25	--	--	--	--	22	Aux
USA	Yorktown	CV	20000 std	A/Large		157	314	471	565	628	
USCG	Active	WSC	232 std	E/VSmall		--	--	--	--	32	
USCG	Algonquin	WPG	1005 std	D/Small		21	43	64	77	85	
USCG	Asheville	PF	1412 std	D/Small	-0.25	20	40	60	72	80	MStd

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
USCG	Lake	WPG	1979 std	C/Small		34	67	101	121	134	
USCG	Northwind	WPG	2065 std	C/Small		35	69	104	124	138	
USCG	Owasco	WPG	2010 std	C/Small		34	68	102	122	136	
USCG	Tacoma	PF	1509 std	C/Small	-0.25	21	42	63	76	84	MStd
USCG	Tampa	WPG	1780 std	C/Small	-0.35	20	41	61	73	81	Wood
USCG	Thetis	WPC	334 std	E/VSmall		--	--	--	--	41	
USCG	Treasury class	WPG	2216 std	C/Small		36	73	109	131	145	
USCG	Wind	WAG	5350 std	C/Small		65	131	196	235	261	
USSR	A (AG) Class	SS	435 subm	D/Small	-0.65	4	9	13	15	17	1925, Sub
USSR	Ametist	PG	228 std	E/VSmall	-0.15	--	--	--	--	27	1925
USSR	Amur	ML	3200 std	C/Small	-0.40	28	56	83	100	111	1925, ML
USSR	Artem (Novik V)	DD	1260 std	D/Small	-0.15	21	42	63	76	84	1925
USSR	B (Bars) class	SS	780 subm	D/Small	-0.50	9	18	27	32	36	Sub
USSR	Black Sea Midget Submarine	SSC	20 subm	G/VSmall	-0.50	0.8	1.6	2.3	2.8	3.1	Sub
USSR	BMO Series I	PC	55 std	F/VSmall		--	--	--	--	12	
USSR	BMO Series II	PC	55 std	F/VSmall		--	--	--	--	12	
USSR	BO2	PC	240 std	E/VSmall		--	--	--	--	33	
USSR	Chervona Ukraina	CL	7600 std	B/Medium	-0.15	70	140	210	252	280	1925
USSR	D3	PT	32 std	F/VSmall	-0.35	--	--	--	--	5.6	Wood
USSR	Dzerzhinski	PCE	810 std	D/Small		19	37	56	67	74	
USSR	Dzerzhinski (Novik VI)	DD	1308 std	D/Small	-0.15	22	44	65	78	87	1925
USSR	Frunze (Novik II)	DD	1240 std	D/Small	-0.15	21	42	63	76	84	1925
USSR	G5	PT	14 std	G/VSmall	-0.25	--	--	--	--	3.7	AAL
USSR	G6	PT	42 std	F/VSmall		--	--	--	--	10	
USSR	Ex-US Admirable	AM	859 std	D/Small		19	39	58	69	77	
USSR	Ex-US Higgins 78' (1945)	PT	48 std	F/VSmall	-0.35	--	--	--	--	7.3	Wood
USSR	Ex-US Tacoma	PF	1509 std	C/Small	-0.25	21	42	63	76	84	MStd
USSR	Ex-US YMS	MMS	251 std	E/VSmall	-0.35	--	--	--	--	22	Wood
USSR	I-V	PG	200 std	E/VSmall		--	--	--	--	29	
USSR	Imanta	MS	256 std	E/VSmall		--	--	--	--	34	
USSR	Jakov Sverdlov	DD	1271 std	D/Small	-0.15	21	43	64	77	85	1925

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
USSR	K (Katjusha) class	SS	2095 subm	C/Small	-0.50	18	35	53	63	70	Sub
USSR	Kalev class	SS	820 subm	D/Small	-0.50	9	19	28	33	37	Sub
USSR	Kalinin (Novik III)	DD	1757 std	C/Small	-0.15	26	53	79	95	105	1925
USSR	Kari Libknecht	DD	1260 std	D/Small	-0.15	21	42	63	76	84	1925
USSR	Krasny Kavkaz	CA	8158 std	B/Medium	-0.15	74	147	221	265	294	1925
USSR	Krasny Krim	CL	6800 std	B/Medium	-0.15	65	130	195	234	260	1925
USSR	KT	MS	16 std	G/VSmall	--	--	--	--	--	5.4	
USSR	Kuban	MS	250 std	E/VSmall	-0.15	--	--	--	--	29	1925
USSR	L (Leninets) class Series II	SS	1335 subm	D/Small	-0.50	13	26	39	47	52	Sub
USSR	L (Leninets) class Series XI	SS	1400 subm	D/Small	-0.50	13	27	40	48	53	Sub
USSR	L (Leninets) class Series XIII	SS	1414 subm	D/Small	-0.50	14	27	41	49	54	Sub
USSR	L (Leninets) class Series XIIIbis	SS	1550 subm	C/Small	-0.50	14	29	43	51	57	Sub
USSR	L 55	SS	1139 subm	D/Small	-0.65	8	17	25	30	33	1925, Sub
USSR	Leningradsoviet	AX	1270 std	D/Small	-0.50	13	25	38	45	50	1895, Aux
USSR	MI / MII (Malyutka) classes	SSC	202 subm	E/VSmall	-0.50	4	8	11	14	15	Sub
USSR	M III/ M IV (Malyutka) classes	SSC	258 subm	E/VSmall	-0.50	4	9	13	15	17	Sub
USSR	M (Malyutka) V class	SSC	420 subm	D/Small	-0.50	6	12	18	22	24	Sub
USSR	Marat	BB	23360 std	A/Large		174	349	523	627	697	
USSR	Marti (1937)	ML	5980 std	B/Medium	-0.75	18	35	53	63	70	1895, Civ
USSR	MO 2	PC	51 std	F/VSmall		--	--	--	--	12	
USSR	MO 4 Series I	PC	56 std	F/VSmall	-0.35	--	--	--	--	8.1	Wood
USSR	MO 4 Series II	PC	65 std	F/VSmall	-0.35	--	--	--	--	8.9	Wood
USSR	Moskva	PG	1025 std	D/Small		22	44	65	78	87	
USSR	P (Pravda) class	SS	1670 subm	C/Small	-0.50	15	30	45	54	60	Sub
USSR	Pikkeri	PG	500 std	D/Small		14	27	41	49	54	
USSR	Project 1 Leningrad	DL	2184 std	C/Small		36	72	107	129	143	
USSR	Project 3 Fugas	MS	428 std	D/Small		12	24	36	43	48	
USSR	Project 6 D (Dekabrist) class (Baltic)	SS	1318 subm	D/Small	-0.50	13	26	38	46	51	Sub
USSR	Project 6 D (Dekabrist) class (Black Sea)	SS	1370 subm	D/Small	-0.50	13	27	40	48	53	Sub
USSR	Project 7 Gnevny	DD	1612 std	C/Small		29	59	88	105	117	

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
USSR	Project 7U Storozevoy	DD	2192 std	C/Small		36	72	108	130	144	
USSR	Project 9 S (Stalinec) class Series IX	SS	1070 subm	D/Small	-0.50	11	23	34	41	45	Sub
USSR	Project 9 S (Stalinec) class Series IXbis	SS	1090 subm	D/Small	-0.50	11	23	34	41	45	Sub
USSR	Project 9 S (Stalinec) class Series XVI	SS	1090 subm	D/Small	-0.50	11	23	34	41	45	Sub
USSR	Project 20 Tashkent	DL	2893 std	C/Small		43	87	130	156	173	
USSR	Project 23 Sovetsky Soyuz	BB	59150 std	A/Large		324	648	971	1166	1295	
USSR	Project 26 Kirov	CA	7880 std	B/Medium		85	169	254	304	338	
USSR	Project 26bis Maxim Gorky	CA	8177 std	B/Medium		87	173	260	311	346	
USSR	Project 30 Ognyevoy	DD	1829 std	C/Small		32	64	95	114	127	
USSR	Project 45 Opytnyi	DD	1595 std	C/Small		29	58	87	104	116	
USSR	Project 53	MS	410 std	D/Small		12	24	35	42	47	
USSR	Project 53u	MS	417 std	D/Small		12	24	36	43	48	
USSR	Project 58	MS	406 std	D/Small		12	24	35	42	47	
USSR	Project 68K Chapaev	CL	11450 std	B/Medium		108	217	325	390	433	
USSR	Project 66	BC	26330 std	A/Large		189	378	566	680	755	
USSR	Project 69 Kronshtadt	BC	35240 std	A/Large		229	459	688	825	917	
USSR	Project 71	CV	10600 std	B/Medium		103	206	308	370	411	
USSR	Project 71b	CV	24000 std	A/Large		178	355	533	639	710	
USSR	Project 72 I-B	CV	30215 std	A/Large		207	414	620	744	827	
USSR	Project 72 II-B	CV	30755 std	A/Large		209	419	628	753	837	
USSR	Project 72 III-B	CV	23740 std	A/Large		176	352	528	634	704	
USSR	Project 82 Stalingrad	BC	36500 std	A/Large		235	470	704	845	939	
USSR	Project 1190 Khasan	PG	1704 std	C/Small		31	61	92	110	122	
USSR	Sh4	PT	12 std	G/VSmall	-0.35	--	--	--	--	2.9	Wood
USSR	SC (Shchuka) class Series III	SS	704 subm	D/Small	-0.50	9	17	26	31	34	Sub
USSR	SC (Shchuka) class Series V	SS	702 subm	D/Small	-0.50	9	17	26	31	34	Sub
USSR	SC (Shchuka) class Series Vbis	SS	715 subm	D/Small	-0.50	9	17	26	31	34	Sub
USSR	SC (Shchuka) class Series X	SS	704 subm	D/Small	-0.50	9	17	26	31	34	Sub
USSR	SC (Shchuka) class Series Xbis	SS	716 subm	D/Small	-0.50	9	17	26	31	34	Sub

Command at Sea 2012 Standard Damage Point Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
USSR	SKA	PG	400 std	D/Small		12	23	35	41	46	
USSR	TK	PG	32 std	F/VSmall		--	--	--	--	8.6	
USSR	Udarnik	MS	190 std	E/VSmall	-0.15	--	--	--	--	24	1925
USSR	Uragan	TB	457 std	D/Small		13	26	38	46	51	
USSR	US Elco 80' (1945)	PT	50 std	F/VSmall	-0.35	--	--	--	--	7.5	Wood
USSR	Virsaitis	MS	525 std	D/Small	-0.50	7	14	21	25	28	1925, Wood
Yugoslavia	Beograd	DD	1210 std	D/Small		24	49	73	87	97	
Yugoslavia	Cetnik	PT	15 std	G/VSmall	-0.25	--	--	--	--	3.9	AAL
Yugoslavia	D.1	AM	78 std	F/VSmall	-0.25	--	--	--	--	12	1895
Yugoslavia	Dubrovnik	DD	1880 std	C/Small		33	65	98	117	130	
Yugoslavia	Ex-German Gazelle	CL	2617 std	C/Small	-0.15	35	69	104	124	138	1925
Yugoslavia	Galeb	CM	525 std	D/Small		14	28	41	50	55	
Yugoslavia	Hrabri	SS	1164 subm	D/Small	-0.50	12	24	35	42	47	Sub
Yugoslavia	Hvar	AS	3600 grt	C/Small	-0.65	15	29	44	52	58	1925, Civ
Yugoslavia	Malinska	AM	130 std	E/VSmall		--	--	--	--	22	
Yugoslavia	Orjen	PT	78 std	F/VSmall	-0.25	--	--	--	--	12	AAL
Yugoslavia	Perun	AO	3006 grt	C/Small	-0.25	28	55	83	99	110	Aux
Yugoslavia	Smeli	SS	809 subm	D/Small	-0.50	9	19	28	33	37	Sub
Yugoslavia	Spasilac	ARS	740 std	D/Small	-0.25	13	26	39	47	52	Aux
Yugoslavia	T1	TB	262 std	E/VSmall	-0.15	--	--	--	--	30	1925
Yugoslavia	T5	TB	266 std	E/VSmall	-0.15	--	--	--	--	30	1925
Yugoslavia	Zmaj	AV	1870 std	C/Small	-0.25	24	49	73	87	97	Aux

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Albania	PRC Type 024/EM1A [Houku]	PTG	68 std	F/VSmall	-0.10	--	--	--	--	13	Nat
Albania	PRC Type 025/026 [Huchuan]	PTH	39 std	F/VSmall	-0.10	--	--	--	--	8.8	Nat
Albania	PRC Type 062 [Shanghai II]	PT	122 std	E/VSmall	-0.10	--	--	--	--	23	Nat
Albania	Russian Pr. 437M [Khobi]	AO	725 std	D/Small	-0.35	11	23	34	41	45	Nat, Aux
Albania	Russian Pr. 122bis [Kronstadt]	PC	210 std	E/VSmall	-0.25	--	--	--	--	23	AAL
Albania	Russian Pr. 123K [P-4]	PT	22 std	F/VSmall	-0.10	--	--	--	--	6	Nat
Albania	Russian Pr. 253L [T 301]	MSC	147 std	E/VSmall	-0.10	--	--	--	--	21	Nat
Albania	Russian Pr. 254 [T-43]	MSF	535 std	D/Small	-0.35	9	18	27	32	36	ML, Nat
Albania	Russian Pr. 613 [Whiskey]	SS	0 subm	D/Small	-0.50	13	26	39	47	52	Sub
Algeria	Brooke Marine 37.5 meter	PC	166 std	E/VSmall		--	--	--	--	26	
Algeria	C-58	PG	496 std	D/Small	-0.10	12	24	36	43	48	Nat
Algeria	Chui-E	WPC	363 std	D/Small	-0.10	10	20	29	35	39	Nat
Algeria	Kalaat Beni Hammed	LST	2130 std	C/Small	-0.25	27	53	80	95	106	Amphib
Algeria	Mangusta	WPB	0 fl	F/VSmall		--	--	--	--	15	
Algeria	PRC C28A	FFL	2880 std	C/Small		43	87	130	156	173	
Algeria	Russian Pr. 1159T [Knoi]	FFL	1515 std	C/Small	-0.10	25	51	76	91	101	Nat
Algeria	Russian Pr. 1234E [Nanuchka II]	PGG	560 std	D/Small	-0.10	13	26	39	47	52	Nat
Algeria	Russian Pr. 183 [P-6]	PT	61 std	F/VSmall	-0.10	--	--	--	--	12	Nat
Algeria	Russian Pr. 183R [Komar]	PTG	66 std	F/VSmall	-0.10	--	--	--	--	13	Nat
Algeria	Russian Pr. 201M [SO I]	PC	170 std	E/VSmall	-0.10	--	--	--	--	24	Nat
Algeria	Russian Pr. 205 [Osa I]	PTG	184 std	E/VSmall	-0.10	--	--	--	--	25	Nat
Algeria	Russian Pr. 205U [Osa II]	PTG	215 std	E/VSmall	-0.10	--	--	--	--	28	Nat
Algeria	Russian Pr. 254 [T-43]	MSF	535 std	D/Small	-0.10	13	26	38	46	51	Nat
Algeria	Russian Pr. 633 [Romeo]	SS	0 subm	C/Small	-0.50	15	31	46	55	61	Sub

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Algeria	Russian Pr. 774 [Polnocny B]	LSM	640 std	D/Small	-0.35	10	21	31	37	41	Nat, Amphib
Algeria	Russian Pr. 877EM [Kilo]	SS	0 subm	C/Small	-0.50	23	45	68	81	90	Sub
Algeria	Type 20 GC	WPB	0 fl	F/VSmall	--	--	--	--	--	9.5	
Angola	Ex-Portuguese Argos	PC	180 std	E/VSmall	--	--	--	--	--	27	
Angola	Mandume	PC	0 fl	E/VSmall	-0.15	--	--	--	--	14	ALS
Angola	Patulheiro	PB	0	/	-0.10						GRP
Angola	Portuguese LDM-400	LCM	0 fl	F/VSmall	-0.25	--	--	--	--	8.4	Amphib
Angola	Russian Pr. 1258 [Yevgenya]	MHI	88 std	E/VSmall	-0.20	--	--	--	--	13	Nat, GRP
Angola	Russian Pr. 1785 Project 301 [T-4]	LCM	0 ltshp	F/VSmall	-0.35	--	--	--	--	6.4	Nat, Amphib
Angola	Russian Pr. 205U [Osa II]	PTG	215 std	E/VSmall	-0.10	--	--	--	--	28	Nat
Angola	Russian Pr. 206 [Shershen]	PTH	220 std	E/VSmall	-0.10	--	--	--	--	28	Nat
Angola	Russian Pr. 771 [Polnocny B]	LST	740 std	D/Small	-0.35	11	23	34	41	45	Nat, Amphib
Anguilla	M160	WPB	0 ltshp	G/VSmall	-0.10	--	--	--	--	5.5	GRP
Antigua-Barburda	US 65 foot	WPB	31 std	F/VSmall	-0.25	--	--	--	--	6.3	AAL
Antigua-Barburda	US Dauntless	WPB	12 std	G/VSmall	-0.25	--	--	--	--	3.3	AAL
Argentina	Alferez Sobral	PG	689 std	D/Small		17	33	50	59	66	
Argentina	Almirante Irizar	AGB	11811 std	B/Medium	-0.25	83	166	249	299	332	Aux
Argentina	Bahia Buen Suceso	AK	3100 std	C/Small	-0.25	34	68	102	122	136	Aux
Argentina	Bahia Paraiso	AKB	0 grt	C/Small	-0.25	40	80	120	144	160	Aux
Argentina	Buenos Aires	DD	1375 std	D/Small		26	53	79	95	105	
Argentina	Costa Sur	AP	0 fl	B/Medium	-0.25	56	112	167	201	223	Aux
Argentina	Ex-France Durance	AO	7600 std	B/Medium	-0.25	62	124	185	222	247	Aux
Argentina	Ex-French Ouragan	LSD	5965 std	B/Medium	-0.25	53	105	158	189	210	Amphib
Argentina	Ex-UK Colossus (25 de Mayo)	CV	15892 std	B/Medium	-0.25	101	202	303	364	404	MStd

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Argentina	Ex-UK Colossus (Independcia)	CV	14000 std	B/Medium	-0.25	93	186	278	334	371	MStd
Argentina	Ex-US Allen M Sumner FRAM II	DD	2200 std	C/Small	-0.15	31	62	92	111	123	ALS
Argentina	Ex-US Allen M. Sumner	DD	2200 std	C/Small		36	72	108	130	144	
Argentina	Ex-US Brooklyn (1st Group)	CL	10800 std	B/Medium		104	209	313	375	417	
Argentina	Ex-US Fletcher	DD	2406 std	C/Small		38	77	115	138	153	
Argentina	Ex-US Gearing FRAM II	DD	2400 std	C/Small	-0.15	33	65	98	117	130	ALS
Argentina	Ex-US Guppy II	SS	0 subm	C/Small	-0.50	19	38	56	68	75	Sub
Argentina	Ex-US LCM(6)	LCM	24 std	F/VSmall	-0.25	--	--	--	--	5.3	Amphib
Argentina	Ex-US LCVP	LCVP	12 std	G/VSmall	-0.25	--	--	--	--	3.3	Amphib
Argentina	Ex-US Mod DeSoto County	LST	4300 std	C/Small	-0.25	42	85	127	152	169	Amphib
Argentina	Ex-US Tacoma	PF	1445 std	D/Small		27	55	82	98	109	
Argentina	Formosa	Merch	0 grt	B/Medium	-0.50	48	96	144	173	192	Civ
Argentina	French A-69	FFL	1100 std	D/Small		23	46	68	82	91	
Argentina	FRG Klasse 209/1200	SS	0 subm	D/Small	-0.50	13	25	38	45	50	Sub
Argentina	Islas De Los Estados	AKB	0 grt	C/Small	-0.50	22	43	65	77	86	Civ
Argentina	Israeli Dabur	PB	26 std	F/VSmall		--	--	--	--	7.5	
Argentina	La Argentina	CL	6000 std	B/Medium		70	141	211	253	281	
Argentina	Meko 140 A16	FF	1560 std	C/Small		29	58	86	104	115	
Argentina	Meko 360 H2	FFL	2900 std	C/Small		43	87	130	156	173	
Argentina	Mendoza	DD	1570 std	C/Small		29	58	86	104	115	
Argentina	Narwal	Trawler	0 grt	D/Small	-0.50	11	22	33	40	44	Civ
Argentina	Punta Delgada	AO	5390 std	C/Small	-0.25	49	99	148	177	197	Aux
Argentina	Punta Medanos	AOR	14352 std	B/Medium	-0.25	95	189	284	340	378	Aux
Argentina	Rio Caracana	Merch	0 grt	B/Medium	-0.50	38	75	113	135	150	Civ

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Argentina	Teniente Olivieri	PS	0 fl	D/Small		27	53	80	95	106	
Argentina	TNC 45	PB	240 std	E/VSmall		--	--	--	--	33	
Argentina	TR-1700	SS	0 subm	C/Small	-0.50	19	38	56	68	75	Sub
Argentina	UK Ton	MSF	360 std	D/Small	-0.35	7	14	21	25	28	Wood
Argentina	UK Ton (w/sonar)	MSF	360 std	D/Small	-0.35	7	14	21	25	28	Wood
Argentina	UK Type 42	DDG	3150 std	C/Small		46	92	137	165	183	
Argentina	US Achomawi	PS	1235 std	D/Small		25	49	74	88	98	
Argentina	US Klickitat	AOG	2060 std	C/Small	-0.25	26	52	77	93	103	Aux
Argentina	US Sotoyomo	PS	570 std	D/Small		15	30	44	53	59	
Argentina	Yehuín	Merch	0 grt	D/Small	-0.50	6	11	17	20	22	Civ
Australia	Anzac	FF	3300 std	C/Small		47	95	142	170	189	
Australia	Attack	PC	100 std	E/VSmall	-0.15	--	--	--	--	16	ALS
Australia	Balikpapan	LCH	0 ltshp	D/Small	-0.25	8	16	24	29	32	Amphib
Australia	Bathurst	MSF	790 std	D/Small		18	37	55	66	73	
Australia	Bay	MHC	100 std	E/VSmall	-0.10	--	--	--	--	17	GRP
Australia	Canberra	LHD	0 fl	A/Large	-0.25	132	264	395	474	527	Amphib
Australia	Collins	SS	0 subm	C/Small	-0.50	24	47	71	85	94	Sub
Australia	DDL	FFG	4200 std	C/Small		56	111	167	200	222	
Australia	Ex-UK Daring	DD	2830 std	C/Small		43	86	128	154	171	
Australia	Ex-UK Largs Bay	LSD	0 ltshp	A/Large	-0.40	89	178	266	320	355	MStd90, Amphib
Australia	Ex-UK Leaf	AO	0 grt	B/Medium	-0.25	105	210	315	378	420	MStd
Australia	Ex-UK Majestic	CVL	15900 std	B/Medium	-0.25	101	202	303	364	404	MStd
Australia	Ex-UK Oberon	SS	0 subm	C/Small	-0.50	19	39	58	69	77	Sub
Australia	Ex-UK Ton	MSI	360 std	D/Small	-0.25	8	16	24	29	32	AAL

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Australia	Ex-UK Tribal	DD	1959 std	C/Small		33	67	100	120	133	
Australia	Ex-US Charles F. Adams	DDG	3472 std	C/Small	-0.15	42	83	125	149	166	ALS
Australia	Ex-US Newport	LPH	0 ltshp	B/Medium	-0.25	51	101	152	182	202	Amphib
Australia	Fremantle	PC	200 std	E/VSmall	--	--	--	--	--	29	
Australia	French Durance	AO	0 fl	B/Medium	-0.25	98	197	295	354	393	Aux
Australia	Huon	MHC	0 fl	D/Small	-0.10	14	28	41	50	55	GRP
Australia	Melbourne	CVL	16000 std	B/Medium	-0.25	102	203	305	365	406	MStd
Australia	Quadrant	FF	2240 std	C/Small		37	73	110	131	146	
Australia	River (early)	FF	2150 std	C/Small		36	71	107	128	142	
Australia	River (late)	FF	2150 std	C/Small		36	71	107	128	142	
Australia	Stalwart	AD	10000 std	B/Medium	-0.50	50	99	149	178	198	MStd, Aux
Australia	Tobruk (i)	DD	2400 std	C/Small		38	77	115	138	153	
Australia	Tobruk (ii)	LPA	3400 std	C/Small	-0.25	36	73	109	131	145	Amphib
Australia	UK Bay	FF	1537 std	C/Small	-0.25	21	43	64	77	85	MStd
Australia	UK Tide	AO	15000 std	B/Medium	-0.25	97	195	292	350	389	Aux
Australia	US O.H. Perry	FFG	3073 std	C/Small	-0.15	38	77	115	138	153	ALS
Australia	Vampire	DD	2800 std	C/Small	-0.15	36	72	108	130	144	ALS
Austria	Niederosterreich	PC	0 fl	F/VSmall		--	--	--	--	13	
Azerbaijan	Ex-Russian Pr. 159A [Petya II]	FFL	950 std	D/Small	-0.10	19	37	56	67	74	Nat
Azerbaijan	Ex-Russian Pr. 205M [Stenka]	PC	170 std	E/VSmall	-0.10	--	--	--	--	24	Nat
Azerbaijan	Ex-Russian Pr. 205U [Osa II]	PTG	215 std	E/VSmall	-0.10	--	--	--	--	28	Nat
Azerbaijan	Ex-Russian Pr. 1258 [Yevgenya]	MSI	95 std	E/VSmall	-0.20	--	--	--	--	14	Nat, GRP
Azerbaijan	Ex-Russian Pr. 1265 [Sonya]	MSC	427 std	D/Small	-0.45	7	14	20	24	27	Nat, Wood
Azerbaijan	Ex-Russian Pr. 1400M Grif [Zhuk]	PC	36 std	F/VSmall	-0.35	--	--	--	--	6	Nat, AAL

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Azerbaijan	Ex-Russian Pr. 1785 [T-4]	LCM	0 ltshp	F/VSmall	-0.35	--	--	--	--	6.4	Nat, Amphib
Bahamas	103 foot	PB	100 std	E/VSmall		--	--	--	--	18	
Bahamas	Ex-US Cape	PB	90 std	E/VSmall		--	--	--	--	17	
Bahamas	Keith Nelson	PC	30 std	F/VSmall	-0.10	--	--	--	--	7.4	GRP
Bahamas	Protector	PB	0 ltshp	E/VSmall		--	--	--	--	20	
Bahrain	65 foot	PB	0 fl	F/VSmall	-0.25	--	--	--	--	5.9	AAL
Bahrain	Ajirah	LCU	0 fl	D/Small	-0.50	6	11	17	20	22	Amphib, AAL
Bahrain	Ex-US LCU 1466	LCU	0 fl	E/VSmall	-0.25	--	--	--	--	18	Amphib
Bahrain	FPB 38	PC	188 std	E/VSmall		--	--	--	--	28	
Bahrain	FPB 62-001	PGG	0 fl	D/Small		14	28	42	50	56	
Bahrain	Loadmaster	LCU	0 fl	F/VSmall	-0.25	--	--	--	--	12	Amphib
Bahrain	Loadmaster II	LCU	0 fl	E/VSmall	-0.25	--	--	--	--	16	Amphib
Bahrain	TNC 45	PTG	0 ltshp	E/VSmall		--	--	--	--	32	
Bahrain	Ex-US O. H. Perry	FFG	0 ltshp	C/Small	-0.15	39	78	116	140	155	ALS
Bangladesh	Bangadandhu	FFG	2170 std	C/Small	-0.15	30	61	91	109	121	ALS
Bangladesh	Ex-Indian Ajay	PB	120 std	E/VSmall	-0.10	--	--	--	--	19	Nat
Bangladesh	Ex-Pakistani PB	PB	115 std	E/VSmall		--	--	--	--	20	
Bangladesh	Ex-PRC Type 021 [Huangfen]	PTG	187 std	E/VSmall	-0.10	--	--	--	--	25	Nat
Bangladesh	Ex-PRC Type 024 [Hoku]	PTG	68 std	F/VSmall	-0.10	--	--	--	--	13	Nat
Bangladesh	Ex-PRC Type 025/026 [Huchuan]	PTH	39 std	F/VSmall	-0.10	--	--	--	--	8.8	Nat
Bangladesh	Ex-PRC Type 053H1 [Jianghu II]	FF	1568 std	C/Small	-0.10	26	52	78	94	104	Nat
Bangladesh	Ex-PRC Type 37 [Hainan]	PC	395 std	D/Small	-0.10	10	21	31	37	41	Nat
Bangladesh	Ex-UK River	MSF	630 std	D/Small	-0.25	12	24	35	42	47	MStd
Bangladesh	Ex-UK Type 41	FF	2300 std	C/Small		37	74	111	133	148	

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Bangladesh	Ex-UK Type 61	FF	2170 std	C/Small		36	72	107	129	143	
Bangladesh	Ex-US LCM(8)	LCM	0 fl	F/VSmall	-0.25	--	--	--	--	6	Amphib
Bangladesh	Ex-US LCU 1466	LCU	0 ltshp	E/VSmall	-0.25	--	--	--	--	22	Amphib
Bangladesh	Ex-Yugoslav Kraljevica	PB	190 std	E/VSmall	-0.10	--	--	--	--	25	Nat
Bangladesh	Khan Jahan Ali	AO	0 fl	C/Small	-0.50	20	39	59	70	78	Civ
Bangladesh	LCVP 011	LCM	0 fl	F/VSmall	-0.25	--	--	--	--	11	Amphib
Bangladesh	Meghna	PB	0 fl	E/VSmall		--	--	--	--	42	
Bangladesh	Pabna	PB	0 fl	F/VSmall		--	--	--	--	13	
Bangladesh	PRC Type 010 [T-43]	MSF	500 std	D/Small	-0.35	9	18	26	32	35	Nat, Aux
Bangladesh	PRC Type 062 [Shanghai II]	PC	122 std	E/VSmall	-0.10	--	--	--	--	19	Nat
Bangladesh	PRC Type 068 [Yuchai]	LCU	0 fl	F/VSmall	-0.35	--	--	--	--	9.6	Nat, Amphib
Bangladesh	Russian Pr. 123bis [P-4]	PB	22 std	F/VSmall	-0.10	--	--	--	--	6	Nat
Bangladesh	Shahamanat	LCU	0 fl	E/VSmall	-0.25	--	--	--	--	29	Amphib
Barbados	37.5 meter	WPC	155 std	E/VSmall		--	--	--	--	25	
Barbados	US Dauntless	WPB	12 std	G/VSmall	-0.25	--	--	--	--	3.3	AAL
Belgium	Ex-Netherlands Karel Doorman	FF	0 ltshp	C/Small		46	92	138	166	184	
Belgium	Ex-UK Algerine	MSF	1040 std	D/Small		22	44	65	78	87	
Belgium	Godetia	MCS	0 ltshp	C/Small		33	66	99	119	132	
Belgium	Herstal	MSI	160 std	E/VSmall	-0.35	--	--	--	--	16	Wood
Belgium	KMV	HMS	0 fl	D/Small	-0.10	13	26	38	46	51	GRP
Belgium	Tripartite	MHC	511 std	D/Small	-0.10	12	25	37	44	49	GRP
Belgium	US Adjutant	MSC	350 std	E/VSmall	-0.35	--	--	--	--	27	Wood
Belgium	US Agile	MSF	755 std	D/Small	-0.35	12	23	35	41	46	Wood
Belgium	Weilingen	FF	1940 std	C/Small		33	67	100	120	133	

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Belgium	Zinnia	MCS	0 ltshp	C/Small		33	66	99	119	132	
Belize	20 Meter Wasp	PC	0 fl	F/VSmall	-0.10	--	--	--	--	7.5	GRP
Belize	Belmopan	PC	0 fl	G/VSmall		--	--	--	--	4.8	
Belize	Ex-UK Avon	LCM	61 std	F/VSmall	-0.25	--	--	--	--	9.9	Amphib
Benin	Ex-North Korean P-4	PT	22 std	F/VSmall	-0.10	--	--	--	--	6	Nat
Benin	PR-362T	PC	0 fl	F/VSmall	-0.10	--	--	--	--	12	GRP
Bermuda	Boston Whaler	WYFL	2 std	G/VSmall	-0.10	--	--	--	--	1.2	GRP
Bolivia	Boston Whaler	WYFL	2 std	G/VSmall	-0.10	--	--	--	--	1.2	GRP
Bolivia	Ex-US PBR MkII	PB	9 std	G/VSmall	-0.10	--	--	--	--	3.3	GRP
Bolivia	Santa Cruz De La Sierra	PB	2 std	G/VSmall	-0.25	--	--	--	--	1	AAL
Botswana	US Raider	WPB	0 fl	G/VSmall	-0.10	--	--	--	--	1.4	GRP
Brazil	Almirante Gastao Motta	AO	0 fl	B/Medium	-0.25	68	136	204	245	272	Aux
Brazil	Custodio de Mello	APA	4800 std	C/Small	-0.25	46	91	137	164	182	Aux
Brazil	EDVP	LCVP	0 ltshp	G/VSmall	-0.60	--	--	--	--	2	Amphib, Wood
Brazil	Ex-French Clemenceau	CV	27307 std	A/Large		193	387	580	696	773	
Brazil	Ex-UK Broadsword (Type 22/1)	FF	3900 std	C/Small		53	106	158	190	211	
Brazil	Ex-UK Colossus	CV	15890 std	B/Medium	-0.25	101	202	303	364	404	MStd
Brazil	Ex-US Allen M Sumner	DD	2200 std	C/Small		36	72	108	130	144	
Brazil	Ex-US Allen M Sumner FRAM II	DD	2200 std	C/Small	-0.15	31	62	92	111	123	ALS
Brazil	Ex-US Aristaeus	AR	2030 std	C/Small	-0.25	26	51	77	92	102	Aux
Brazil	Ex-US De Soto County	LST	4164 std	C/Small	-0.25	41	83	124	149	165	Amphib
Brazil	Ex-US Fletcher	DD	2050 std	C/Small		35	69	104	124	138	
Brazil	Ex-US Garcia	FF	2624 std	C/Small	-0.15	35	69	104	124	138	ALS
Brazil	Ex-US Gearing FRAM I (Group B)	DD	2425 std	C/Small	-0.15	33	66	98	118	131	ALS

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Brazil	Ex-US Guppy II	SS	0 subm	C/Small	-0.50	25	50	74	89	99	Sub
Brazil	Ex-US Guppy III	SS	0 subm	C/Small	-0.50	20	40	59	71	79	Sub
Brazil	Ex-US LCU 1610	LCU	200 std	E/VSmall	-0.25	--	--	--	--	22	Amphib
Brazil	Ex-US LST 542	LST	1490 std	D/Small	-0.25	21	42	62	75	83	Amphib
Brazil	Ex-US Newport	LST	0 ltshp	B/Medium	-0.25	51	101	152	182	202	Amphib
Brazil	Ex-US Thomaston	LSD	6880 std	B/Medium	-0.25	58	116	173	208	231	Amphib
Brazil	FRG Klasse 209/1400	SS	0 subm	D/Small	-0.50	14	27	41	49	54	Sub
Brazil	FRG Klasse 340a	MS	241 std	E/VSmall	--	--	--	--	--	33	
Brazil	Grauna	PB	0 fl	E/VSmall	--	--	--	--	--	42	
Brazil	Imperial Marinheiro	FFL	911 std	D/Small		20	40	60	72	80	
Brazil	Inhauma	FF	1670 std	C/Small		30	60	90	108	120	
Brazil	LCM(6)	LCM	24 std	F/VSmall	-0.25	--	--	--	--	5.3	Amphib
Brazil	Marajo	AO	0 fl	B/Medium		122	243	365	437	486	
Brazil	Pirantini	PB	0 fl	E/VSmall		--	--	--	--	17	
Brazil	Tracker 20	PC	31 std	F/VSmall	-0.10	--	--	--	--	7.6	GRP
Brazil	UK Oberon	SS	0 subm	C/Small	-0.50	19	39	58	69	77	Sub
Brazil	UK Thornycroft Mk10 (ASW)	FF	3200 std	C/Small		46	93	139	167	185	
Brazil	UK Thornycroft Mk10 (GP)	FF	3200 std	C/Small		46	93	139	167	185	
Brazil	US Sotoyomo	FFL	570 std	D/Small		15	30	44	53	59	
Brazil	US Swift MkII	PC	0 fl	G/VSmall		--	--	--	--	6	
Brigade 2506	Ex-US LCI	LCI	250 std	E/VSmall	-0.25	--	--	--	--	25	Amphib
Brigade 2506	Ex-US LCU	LCU	0 ltshp	E/VSmall	-0.25	--	--	--	--	24	Amphib
Brigade 2506	Ex-US LCVP	LCVP	13 std	G/VSmall	-0.25	--	--	--	--	3.5	Amphib
Brigade 2506	MV Houston	Merch	0 grt	D/Small	-0.25	20	39	59	70	78	MStd

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Brigade 2506	MV Houston (Atlantico)	Merch	0 grt	D/Small	-0.25	19	39	58	69	77	MStd
Brigade 2506	MV Houston (Caribe)	Merch	0 grt	D/Small	-0.25	20	41	61	73	81	MStd
Brigade 2506	MV Houston (Lake Charles)	Merch	0 grt	D/Small	-0.25	20	39	59	70	78	MStd
Brigade 2506	MV Houston (Rio Escodido)	Merch	0 grt	D/Small	-0.25	15	30	44	53	59	MStd
Brigade 2506	Small Boat	Boat	0 ltshp	G/VSmall	--	--	--	--	--	0.9	
Brunei	Loadmaster	LCU	64 std	F/VSmall	-0.25	--	--	--	--	10	Amphib
Brunei	Periwa	PC	30 std	F/VSmall	-0.35	--	--	--	--	5.3	Wood
Brunei	Serasa	LCM	0 fl	E/VSmall	-0.25	--	--	--	--	28	Amphib
Brunei	Waspada	PTG	150 std	E/VSmall	-0.15	--	--	--	--	20	Alum
Brunei	Yarrow 95 m	FFL	1500 std	D/Small		28	56	84	101	112	
Bulgaria	Ex-Belgian Tripartite	MHC	511 std	D/Small		14	27	41	49	54	
Bulgaria	Ex-Belgian Wellingen	FF	1940 std	C/Small		33	67	100	120	133	
Bulgaria	Ex-Russian M II	SSC	0 subm	E/VSmall	-0.50	4	8	11	14	15	
Bulgaria	Ex-Russian Pr. 122bis [Kronstadt]	PC	210 std	E/VSmall	-0.15	--	--	--	--	26	ALS
Bulgaria	Ex-Russian Pr. 613 [Whiskey]	SS	0 subm	D/Small	-0.50	13	26	39	47	52	Sub
Bulgaria	Ex-Russian Pr. 770D [Polnocny A]	LSM	704 std	D/Small	-0.35	11	22	33	40	44	Nat, Amphib
Bulgaria	Ex-Russian Pr. 1141.1M [Tarantul II]	PTG	385 std	D/Small	-0.10	10	21	31	37	41	Nat
Bulgaria	Ex-Russian Pr. 1159T [Koni]	FFL	1515 std	C/Small	-0.10	25	51	76	91	101	Nat
Bulgaria	Project 102 [Mesar]	AO	0 fl	C/Small	-0.60	17	34	50	60	67	Civ, Nat
Bulgaria	Russian Pr. 50 [Riga]	FFL	1260 std	D/Small	-0.10	22	45	67	80	89	Nat
Bulgaria	Russian Pr. 106K [Vydra]	LCU	308 std	E/VSmall	-0.35	--	--	--	--	25	Nat, Amphib
Bulgaria	Russian Pr. 201M [SO I]	PC	170 std	E/VSmall	-0.10	--	--	--	--	24	Nat
Bulgaria	Russian Pr. 204 [Poti]	PC	439 std	D/Small	-0.10	11	22	33	40	44	Nat
Bulgaria	Russian Pr. 205 [Osa I]	PTG	184 std	E/VSmall	-0.10	--	--	--	--	25	Nat

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Bulgaria	Russian Pr. 205U [Osa II]	PTG	215 std	E/VSmall	-0.10	--	--	--	--	28	Nat
Bulgaria	Russian Pr. 206 [Shershen]	PT	220 std	E/VSmall	-0.10	--	--	--	--	28	Nat
Bulgaria	Russian Pr. 254 [T-43]	MSD	500 std	D/Small	-0.10	12	24	36	43	48	Nat
Bulgaria	Russian Pr. 255K (T301)	MSI	148 std	E/VSmall	-0.10	--	--	--	--	21	Nat
Bulgaria	Russian Pr. 257D [Vanya I]	MSC	254 std	E/VSmall	-0.10	--	--	--	--	31	Nat
Bulgaria	Russian Pr. 633 [Romeo]	SS	0 subm	C/Small	-0.50	15	31	46	55	61	Sub
Bulgaria	Russian Pr. 1241.2 [Pauk I]	PC	425 std	D/Small	-0.10	11	22	32	39	43	Nat
Bulgaria	Russian Pr. 1258 [Yevgenya]	MSI	95 std	E/VSmall	-0.20	--	--	--	--	14	Nat, GRP
Bulgaria	Russian Pr. 1259 [Olya]	MSI	62 std	F/VSmall	-0.20	--	--	--	--	11	Nat, GRP
Bulgaria	Russian Pr. 1265 [Sonya]	MSC	390 std	D/Small	-0.10	10	21	31	37	41	Nat
Bulgaria	Russian Pr. 1400 Grif [Zhuk]	PC	36 std	F/VSmall	-0.35	--	--	--	--	6	Nat, AAL
Burma/Myanmar	Aiyar Maung	LCU	0 fl	E/VSmall	-0.25	--	--	--	--	23	Amphib
Burma/Myanmar	Myanmar	PB	213 std	E/VSmall	-0.10	--	--	--	--	27	Nat
Burma/Myanmar	PGM 412	PB	0 fl	E/VSmall	--	--	--	--	--	19	
Burma/Myanmar	PRC Type 037/1G [Houxin]	PTG	0 fl	D/Small	-0.10	10	20	29	35	39	Nat
Burma/Myanmar	PRC Type 37 [Hainan]	PC	375 std	D/Small	-0.10	10	20	30	36	40	Nat
Burma/Myanmar	Sinde	LCU	0 fl	E/VSmall	-0.25	--	--	--	--	21	Amphib
Burma/Myanmar	US 105 foot	PC	0 fl	E/VSmall	-0.25	--	--	--	--	13	AAL
Burma/Myanmar	US Admirable	PB	650 std	D/Small		16	32	48	58	64	
Burma/Myanmar	US LCU 1610	LCU	190 std	E/VSmall	-0.25	--	--	--	--	21	Amphib
Burma/Myanmar	US PCER 827	FFL	640 std	D/Small		16	32	47	57	63	
Burma/Myanmar	US PGM 43	PB	100 std	E/VSmall		--	--	--	--	18	
Burma/Myanmar	USCG 83 foot	PB	49 std	F/VSmall	-0.35	--	--	--	--	7.4	Wood
Burundi	PRC Yulin	WPB	0 fl	G/VSmall	-0.10	--	--	--	--	3.2	Nat

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Cambodia	Kaoh Chlam	PB	41 std	F/VSmall	--	--	--	--	--	10	
Cambodia	Russian Pr. 1400 Grif [Zhuk]	PC	36 std	F/VSmall	-0.35	--	--	--	--	6	Nat, AAL
Cambodia	Russian Pr. 205P [Stenka]	PC	170 std	E/VSmall	-0.10	--	--	--	--	24	Nat
Cambodia	Russian Pr. 206 Shtorm [Turya]	PTH	215 std	E/VSmall	-0.10	--	--	--	--	28	Nat
Cambodia	Russian Pr. 301 [T-4]	LCM	0 ltshp	F/VSmall	-0.35	--	--	--	--	6.4	Nat, Amphib
Cambodia	Russian Pr. 1204 [Shmel']	PB	0 fl	F/VSmall	-0.10	--	--	--	--	12	Nat
Cambodia	Russian Pr. 1598 [Kano]	LCP	0 fl	G/VSmall	-0.35	--	--	--	--	1	Nat, Amphib
Cameroon	38 foot	PB	0 fl	G/VSmall	-0.25	--	--	--	--	2.8	AAL
Cameroon	Betika	LCM	0 fl	F/VSmall	-0.25	--	--	--	--	8.5	Amphib
Cameroon	French P 48S	PTM	270 std	E/VSmall		--	--	--	--	36	
Cameroon	French PR 48	PC	0 fl	E/VSmall		--	--	--	--	30	
Cameroon	PRC Type 62 [Shanghai II]	PT	122 std	E/VSmall	-0.10	--	--	--	--	19	Nat
Cameroon	Quartier Maitre Alfred Motto	PB	0 fl	F/VSmall		--	--	--	--	16	
Cameroon	US Raider	PB	0 fl	G/VSmall	-0.10	--	--	--	--	1.4	GRP
Canada	Annapolis	FF	2400 std	C/Small	-0.15	33	65	98	117	130	ALS
Canada	Annapolis (DELEX)	FF	2400 std	C/Small	-0.15	33	65	98	117	130	ALS
Canada	Cape Roger	OPV	0 fl	D/Small	-0.25	19	37	56	67	74	MStd
Canada	Crescent	DDE	2240 std	C/Small		37	73	110	131	146	
Canada	Ex-UK Head	AR	9000 std	B/Medium	-0.25	69	139	208	249	277	Aux
Canada	Ex-UK Majestic	CVL	16000 std	B/Medium	-0.25	102	203	305	365	406	MStd
Canada	Ex-UK River	DE	2150 std	C/Small	-0.25	27	53	80	95	106	MStd
Canada	Ex-UK Tribal	DDE	2200 std	C/Small		36	72	108	130	144	
Canada	Ex-UK Upholder	SS	0 subm	C/Small	-0.50	19	38	57	68	76	Sub
Canada	Ex-US Balao	SS	0 subm	C/Small	-0.50	19	39	58	69	77	Sub

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Canada	Ex-US Tench	SS	0 subm	C/Small	-0.50	19	39	58	69	77	Sub
Canada	Halifax	FF	4305 std	C/Small		57	113	170	203	226	
Canada	Improved St Laurent	FFH	2260 std	C/Small	-0.15	31	63	94	113	125	ALS
Canada	Iroquois	DDH	3863 std	C/Small		53	105	158	189	210	
Canada	Iroquois (TRUMP)	DDG	4450 std	C/Small		58	116	173	208	231	
Canada	Leonard J. Crowley	OPV	0 ltshp	C/Small	-0.25	23	45	68	81	90	MStd
Canada	Mackenzie	FF	2380 std	C/Small	-0.15	32	65	97	116	129	ALS
Canada	Mackenzie (DELEX)	FF	2380 std	C/Small	-0.15	32	65	97	116	129	ALS
Canada	Protecteur	AO	0 ltshp	B/Medium	-0.25	72	143	215	257	286	Aux
Canada	Provider	AO	0 ltshp	B/Medium	-0.25	65	131	196	235	261	Aux
Canada	Quinte	MCB	390 std	D/Small	-0.35	8	15	23	27	30	Wood
Canada	Restigouche	FF	2000 std	C/Small	-0.15	29	58	86	104	115	ALS
Canada	Restigouche (DELEX)	FF	2875 std	C/Small	-0.15	37	73	110	131	146	ALS
Canada	St Laurent	FF	2000 std	C/Small	-0.15	29	58	86	104	115	ALS
Canada	UK Oberon	SS	0 subm	C/Small	-0.50	19	39	58	69	77	Sub
Cape Verde	Russian Pr. 206 [Shershen]	PTH	220 std	E/VSmall	-0.10	--	--	--	--	28	Nat
Cape Verde	Russian Pr. 1400 Grif [Zhuk]	PC	36 std	F/VSmall	-0.35	--	--	--	--	6	Nat, AAL
Cape Verde	US 51 foot Mk4	WPB	0 fl	G/VSmall	-0.25	--	--	--	--	4.8	AAL
Cayman Islands	US Dauntless	WPB	0 fl	G/VSmall	-0.25	--	--	--	--	3.8	AAL
Chile	Almirante Williams	DD	2730 std	C/Small		42	83	125	149	166	
Chile	Ex-FRG Klasse 148	PTG	234 std	E/VSmall		--	--	--	--	32	
Chile	Ex-Isaeli Sa'ar 2	PTG	220 std	E/VSmall	-0.15	--	--	--	--	26	ALS
Chile	Ex-Israeli Reshev	PTG	415 std	D/Small	-0.15	10	20	30	36	40	ALS
Chile	Ex-UK County (11, 12)	DDG	5440 std	C/Small		66	132	198	238	264	

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Chile	Ex-UK County (13)	DDH	5440 std	C/Small		66	132	198	238	264	
Chile	Ex-UK County (14)	DDH	5440 std	C/Small		66	132	198	238	264	
Chile	Ex-UK Oberon	SS	0 subm	C/Small	-0.50	19	39	58	69	77	Sub
Chile	Ex-US Abnaki	FFL	1235 std	D/Small		25	49	74	88	98	
Chile	Ex-US Allen M Sumner FRAM II	DD	2200 std	C/Small	-0.15	31	62	92	111	123	ALS
Chile	Ex-US Charles Lawrence	FF	1691 std	C/Small		30	61	91	109	121	
Chile	Ex-US Newport	LST	0 ltshp	B/Medium	-0.25	51	101	152	182	202	Amphib
Chile	Ex-US PC 1638	PB	313 std	E/VSmall		--	--	--	--	39	
Chile	Ex-US Sotoyomo	FFL	534 std	D/Small		14	28	42	50	56	
Chile	French BATRAL	LSM	770 std	D/Small	-0.25	14	27	41	49	54	Amphib
Chile	FRG Klasse 209/1400	SS	0 subm	D/Small	-0.50	13	27	40	48	53	Sub
Chile	Guacolda	PT	0 fl	E/VSmall		--	--	--	--	20	
Chile	Leander	FF	2350 std	C/Small		38	76	113	136	151	
Chile	Project Taitao	PGG	483 std	D/Small	-0.15	11	23	34	41	45	MStd90,
Costa Rica	US 65 foot	WPB	24 std	F/VSmall	-0.25	--	--	--	--	5.3	AAL
Costa Rica	Ex-USCG Cape	WPB	0 fl	F/VSmall		--	--	--	--	15	
Costa Rica	Ex-USCG Point	WPB	64 std	F/VSmall		--	--	--	--	14	
Costa Rica	US Swift 105 foot	WPB	103 std	E/VSmall	-0.25	--	--	--	--	14	AAL
Colombia	Diligente	PB	0 fl	F/VSmall		--	--	--	--	7.9	
Colombia	Ex-FRG Klasse 701A	AGP	1896 std	C/Small	-0.25	25	49	74	88	98	Aux
Colombia	Ex-ROK Navy Pohang	FFL	950 std	D/Small		21	41	62	74	82	
Colombia	Ex-Spanish Cormoran	WPC	300 std	E/VSmall		--	--	--	--	38	
Colombia	Ex-Spanish Lazaga	WPC	275 std	E/VSmall		--	--	--	--	36	
Colombia	Ex-US Abnaki	PS	1235 std	D/Small		25	49	74	88	98	

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Colombia	Ex-US Allen M Sumner FRAM II	DD	2200 std	C/Small	-0.15	31	62	92	111	123	ALS
Colombia	Ex-US Asheville	WPC	225 std	E/VSmall	-0.15	--	--	--	--	27	ALS
Colombia	Ex-US Cherokee	PS	1235 std	D/Small		25	49	74	88	98	
Colombia	Ex-US Dealey	DE	1450 std	D/Small	-0.15	23	47	70	84	93	ALS
Colombia	Ex-US Fletcher	DD	2200 std	C/Small		36	72	108	130	144	
Colombia	Ex-US LCU-1466	LCU	0 ltshp	E/VSmall	-0.25	--	--	--	--	22	Amphib
Colombia	Ex-US Patapsco	AO	0 fl	C/Small	-0.25	40	79	119	142	158	Aux
Colombia	Ex-US Reliance (210')	WPC	950 std	D/Small	-0.25	16	31	47	56	62	AAL
Colombia	FRG Klasse 209/1200	SS	0 subm	D/Small	-0.50	13	25	38	45	50	Sub
Colombia	FS 1500	FF	1600 std	C/Small		29	59	88	105	117	
Colombia	Italian S.X. 506	SSM	0 subm	F/VSmall	-0.50	1.8	3.6	5.4	6.5	7.2	Sub
Colombia	Juan Nepomuceno Eslava	WPC	0 fl	E/VSmall		--	--	--	--	20	
Colombia	Rio Hacha	PC	170 std	E/VSmall		--	--	--	--	26	
Colombia	Sargento 2* Julio Correa Hernandez	PC	0 fl	E/VSmall	-0.50	--	--	--	--	9.3	Civ
Colombia	Sweden Modified Halland	DD	2650 std	C/Small		41	82	122	147	163	
Colombia	US 110'/105' Commercial Cruiser	WPC	0 fl	F/VSmall	-0.25	--	--	--	--	12	AAL
Colombia	US 22 foot Piranha	PB	1.5 std	G/VSmall	-0.10	--	--	--	--	1	GRP
Colombia	US 40 foot Patrol Boat	PB	21 std	F/VSmall	-0.25	--	--	--	--	4.9	AAL
Colombia	US PBR MkII	PB	8.9 std	G/VSmall	-0.10	--	--	--	--	3.3	GRP
Comoros	Ex-UK LCT(8)	LCT	657 std	D/Small	-0.25	12	24	36	43	48	Amphib
Comoros	Japanese Yamayuri	WPB	27 std	F/VSmall		--	--	--	--	7.7	
Congo, Democratic/Zaire	PRC Type 62 [Shanghai II]	PT	122 std	E/VSmall	-0.10	--	--	--	--	19	Nat
Congo, Peoples Republic	PRC Type 62 [Shanghai II]	PT	122 std	E/VSmall	-0.10	--	--	--	--	19	Nat

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Congo, Peoples Republic	PRC Yulin	WPB	0 fl	G/VSmall	-0.10	--	--	--	--	3.2	Nat
Congo, Peoples Republic	Russian Pr. 206 [Shershen]	PTH	220 std	E/VSmall	-0.10	--	--	--	--	28	Nat
Congo, Peoples Republic	Russian Pr. 1400 Grif [Zhuk]	PC	36 std	F/VSmall	-0.35	--	--	--	--	6	Nat, AAL
Congo, Peoples Republic	Spanish Pirana	PC	125 std	E/VSmall	-0.10	--	--	--	--	19	GRP
Cook Island	Australian ASI 315	PB	0 fl	E/VSmall	-0.35	--	--	--	--	15	Wood
Croatia	DTM 211	LCU	240 std	E/VSmall	-0.25	--	--	--	--	25	Amphib
Croatia	Faust Vrancic	ASR	0 fl	D/Small	-0.25	20	39	59	70	78	Aux
Croatia	French Sirius	MSI	400 std	D/Small	-0.35	8	15	23	27	30	Wood
Croatia	Kralj Petar Kresmir IV	PTG	350 std	E/VSmall	--	--	--	--	--	42	
Croatia	Russian Pr. 205 [Osa I]	PC	184 std	E/VSmall	-0.10	--	--	--	--	25	Nat
Croatia	Russian Pr. 206 [Shershen]	PTH	220 std	E/VSmall	-0.10	--	--	--	--	28	Nat
Croatia	Russian Pr. 861M [Moma]	AGS	1260 std	D/Small	-0.35	16	33	49	59	65	Nat, Aux
Croatia	Silba	LSM	750 std	D/Small	-0.25	13	27	40	48	53	Amphib
Croatia	Type 11	LCM	32 std	F/VSmall	-0.35	--	--	--	--	5.6	Amphib, GRP
Croatia	Type 21	LCVP	32 std	F/VSmall	-0.35	--	--	--	--	5.6	Amphib, GRP
Croatia	Type 22	LCM	0 fl	F/VSmall	-0.25	--	--	--	--	7.6	Amphib
Croatia	Type 140	PC	125 std	E/VSmall	--	--	--	--	--	21	
Croatia	Type 240	PTG	242 std	E/VSmall	-0.15	--	--	--	--	28	ALS
Croatia	Una	SSM	0 subm	E/VSmall	-0.50	2.3	4.6	6.8	8.2	9.1	Sub
Cuba	Cuba	Sloop	2055 std	C/Small	-0.65	12	24	36	43	48	1925, Civ
Cuba	Ex-Russian Pr. 122bis [Kronstadt]	PC	210 std	E/VSmall	-0.15	--	--	--	--	26	ALS
Cuba	Ex-US PCE	PC	640 std	D/Small	-0.10	14	29	43	51	57	Nat

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Cuba	Ex-US Tacoma	FF	1430 std	D/Small		27	54	81	97	108	
Cuba	Russian Pr. 123K [P-4]	PT	22 std	F/VSmall	-0.10	--	--	--	--	6	Nat
Cuba	Russian Pr. 183 [P-6]	PT	61 std	F/VSmall	-0.10	--	--	--	--	12	Nat
Cuba	Russian Pr. 183R [Komar]	PTG	66 std	F/VSmall	-0.10	--	--	--	--	13	Nat
Cuba	Russian Pr. 201M [SO I]	PC	170 std	E/VSmall	-0.10	--	--	--	--	24	Nat
Cuba	Russian Pr. 205E [Osa I]	PTG	184 std	E/VSmall	-0.10	--	--	--	--	25	Nat
Cuba	Russian Pr. 205M [Stenka]	PC	170 std	E/VSmall	-0.10	--	--	--	--	24	Nat
Cuba	Russian Pr. 205P [Stenka]	PC	170 std	E/VSmall	-0.10	--	--	--	--	24	Nat
Cuba	Russian Pr. 205U [Osa II]	PTG	215 std	E/VSmall	-0.10	--	--	--	--	28	Nat
Cuba	Russian Pr. 206M Shtorm [Turya]	PTH	220 std	E/VSmall	-0.10	--	--	--	--	28	Nat
Cuba	Russian Pr. 301 [T-4]	LCM	0 ltshp	F/VSmall	-0.35	--	--	--	--	6.4	Nat, Amphib
Cuba	Russian Pr. 641 [Foxtrot]	SS	0 subm	C/Small	-0.50	20	39	59	70	78	Sub
Cuba	Russian Pr. 641I [Foxtrot]	SS	0 subm	C/Small	-0.50	20	39	59	70	78	Sub
Cuba	Russian Pr. 641K [Foxtrot]	SS	0 subm	C/Small	-0.50	20	39	59	70	78	Sub
Cuba	Russian Pr. 771 [Polnocny B]	LSM	836 std	D/Small	-0.35	12	25	37	44	49	Nat, Amphib
Cuba	Russian Pr. 1159T [Knoi]	FFL	1515 std	C/Small	-0.10	25	51	76	91	101	Nat
Cuba	Russian Pr. 1241PE [Pauk]	PC	425 std	D/Small	-0.10	11	22	32	39	43	Nat
Cuba	Russian Pr. 1258 [Yevgenya]	MSI	95 std	E/VSmall	-0.20	--	--	--	--	14	Nat, GRP
Cuba	Russian Pr. 1265 [Sonya]	MSC	427 std	D/Small	-0.45	7	14	20	24	27	Nat, Wood
Cyprus	Type 32L	PB	0 fl	F/VSmall	-0.35	--	--	--	--	10	Wood
Cyprus	Yugoslav FAC-23	PB	0 fl	F/VSmall	-0.25	--	--	--	--	8.5	AAL
Cyprus, North	Raif Denktas	PC	0 fl	G/VSmall		--	--	--	--	3.5	
Denmark	Absalon	FF	0 ltshp	C/Small		63	126	189	227	252	
Denmark	Agdlek (300 fl)	PC	0 fl	E/VSmall		--	--	--	--	34	

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Denmark	Agdlek (330 fl)	PC	0 fl	E/VSmall	--	--	--	--	--	36	
Denmark	Aldebaran (MHV 800)	PB	80 std	F/VSmall	--	--	--	--	--	16	
Denmark	Barsø	PC	0 fl	E/VSmall	--	--	--	--	--	22	
Denmark	Beskytteren	MM	753 std	D/Small	-0.25	13	27	40	48	53	Amphib
Denmark	Delfinen	SS	0 subm	D/Small	-0.50	8	16	24	29	32	Sub
Denmark	Diana	PC	246 std	E/VSmall	-0.10	--	--	--	--	30	GRP
Denmark	Eno (MHV 900)	PC	87 std	E/VSmall	--	--	--	--	--	17	
Denmark	Ex-Norwegian Kobben	SS	0 subm	D/Small	-0.50	7	14	21	25	28	Sub
Denmark	Ex-Sweden Nacken	SS	0 subm	D/Small	-0.50	13	26	38	46	51	Sub
Denmark	Ex-US Adjutant	MSC	350 std	E/VSmall	-0.35	--	--	--	--	27	Wood
Denmark	Falken	PT	119 std	E/VSmall	--	--	--	--	--	21	
Denmark	Falster	MM	0 fl	C/Small	-0.25	21	43	64	77	85	ML
Denmark	Flyvefisken (I)	PT	132 std	E/VSmall	--	--	--	--	--	22	
Denmark	Flyvefisken (II)	PGG	320 std	E/VSmall	-0.10	--	--	--	--	36	GRP
Denmark	French Daphne	PB	150 std	E/VSmall	--	--	--	--	--	24	
Denmark	FRG Kasse 205	SS	0 subm	D/Small	-0.50	7	13	20	23	26	Sub
Denmark	Glenten	PT	120 std	E/VSmall	-0.25	--	--	--	--	16	ML
Denmark	Holm	MSD	98 std	E/VSmall	-0.10	--	--	--	--	16	GRP
Denmark	Huitfeldt	DD	901 std	D/Small		20	40	59	71	79	
Denmark	Hvidbjørnen	PS	1345 std	D/Small		26	52	78	94	104	
Denmark	Ivar Huitfeldt	FFG	0 fl	B/Medium		68	135	203	243	270	
Denmark	Knud Rasmussen	PS	1720 std	C/Small		31	61	92	110	122	
Denmark	Kreiger	PT	400 std	D/Small		12	23	35	41	46	
Denmark	Langeland	MM	310 std	E/VSmall	-0.25	--	--	--	--	29	ML

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Denmark	Lindormen	MM	430 std	D/Small	-0.25	9	18	27	32	36	ML
Denmark	Lougen	MM	257 std	E/VSmall	-0.25	--	--	--	--	26	ML
Denmark	Maagen	PC	175 std	E/VSmall		--	--	--	--	27	
Denmark	MHV (20 t)	PB	20 std	G/VSmall	-0.75	--	--	--	--	1.6	Civ, Wood
Denmark	MHV (30 t)	PB	30 std	F/VSmall	-0.75	--	--	--	--	2.1	Civ, Wood
Denmark	MHV 20 Class	PB	0 fl	F/VSmall	-0.10	--	--	--	--	11	GRP
Denmark	MHV 70 Class	PB	78 std	F/VSmall	-0.35	--	--	--	--	10	Wood
Denmark	MHV 80 Class	PB	74 std	F/VSmall	-0.35	--	--	--	--	9.8	Wood
Denmark	MHV 90 Class	PC	85 std	F/VSmall		--	--	--	--	16	
Denmark	Mod Hvidbjornen	PS	1540 std	C/Small		29	57	86	103	114	
Denmark	MRF	MSD	38 std	F/VSmall	-0.10	--	--	--	--	8.7	GRP
Denmark	MSF	MSD	102 std	E/VSmall	-0.10	--	--	--	--	17	GRP
Denmark	Peder Skram	FF	2200 std	C/Small		36	72	108	130	144	
Denmark	Peder Skram (1978)	FF	2200 std	C/Small		36	72	108	130	144	
Denmark	Søløven	PT	95 std	E/VSmall		--	--	--	--	18	
Denmark	SRC 90E	LCP	6.5 std	G/VSmall	-0.25	--	--	--	--	2.2	Amphib
Denmark	Thetis	PS	2600 std	C/Small		40	81	121	145	161	
Denmark	Triton	FFL	800 std	D/Small		18	37	55	66	73	
Denmark	Type KV 72 Nils Juel	FF	1190 std	D/Small		24	48	72	86	96	
Denmark	UK Hunt (Type 2)	FF	1550 std	C/Small		29	57	86	103	114	
Denmark	US YO 65	AOT	440 std	D/Small	-0.25	9	19	28	33	37	Aux
Denmark	Vig	MSI	180 std	E/VSmall	-0.35	--	--	--	--	18	Wood
Denmark	Willemoes	PTG	240 std	E/VSmall		--	--	--	--	33	
Djibouti	Ex-Russian Pr. 1400 Grif [Zhuk]	PC	36 std	F/VSmall	-0.35	--	--	--	--	6	Nat, AAL

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Djibouti	Ex-French Volte-43	PB	0 fl	F/VSmall	-0.10	--	--	--	--	6.6	GRP
Djibouti	Moussa Ali	PC	30 std	F/VSmall	-0.10	--	--	--	--	7.4	GRP
Djibouti	Zena	PC	0 fl	F/VSmall	-0.10	--	--	--	--	6.6	GRP
Dominica	US 65 foot	WPB	0 fl	F/VSmall	-0.25	--	--	--	--	6	AAL
Dominica	US Dauntless	WPB	12 std	G/VSmall	-0.25	--	--	--	--	3.3	AAL
Dominican Republic	110 foot	PC	0 fl	F/VSmall	-0.25	--	--	--	--	12	AAL
Dominican Republic	Ex-Canadian River	FF	1445 std	D/Small		27	55	82	98	109	
Dominican Republic	Ex-US Admirable	PS	600 std	D/Small		15	31	46	55	61	
Dominican Republic	Ex-US Balsam	PS	694 std	D/Small		17	34	50	60	67	
Dominican Republic	Ex-US Cohoes	PS	650 std	D/Small		16	32	48	58	64	
Dominican Republic	Ex-US PGM 71	PC	130 std	E/VSmall		--	--	--	--	22	
Dominican Republic	Ex-US Sotoyomo	ATF	534 std	D/Small		14	28	42	50	56	
Dominican Republic	Ex-US Tacoma	FF	1430 std	D/Small		27	54	81	97	108	
Dominican Republic	Ex-USCG Argo	PB	0 fl	E/VSmall		--	--	--	--	29	
Dominican Republic	US 85 foot	PC	0 fl	F/VSmall		--	--	--	--	12	
Dominican Republic	US YO 153	YO	370 std	D/Small	-0.25	8	17	25	30	33	Aux
Dubai	13FC	WPB	0 fl	G/VSmall		--	--	--	--	3.8	
Dubai	60 foot	WPB	20 std	G/VSmall		--	--	--	--	6.3	

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Dubai	65 foot	WPB	24 std	F/VSmall	--	--	--	--	--	7.1	
Ecuador	Ex-UK Exocet Leander Batch 2B	FF	2650 std	C/Small	41	82	122	147	163		
Ecuador	Ex-UK Kinterbury	AK	0 fl	C/Small	-0.25	24	49	73	87	97	Aux
Ecuador	Ex-US Charles Lawrence	FF	1400 std	D/Small	27	54	80	96	107		
Ecuador	Ex-US Gearing FRAM I	DD	2425 std	C/Small	-0.15	33	66	98	118	131	ALS
Ecuador	Ex-US LSM 1	LSM	513 std	D/Small	-0.25	10	21	31	37	41	Amphib
Ecuador	Ex-USS LST 542	LST	1650 std	C/Small	-0.25	22	45	67	80	89	Amphib
Ecuador	FPB 45	PGM	2550 std	C/Small	40	80	119	143	159		
Ecuador	FRG Klasse 209/1300	SS	0 subm	D/Small	-0.50	13	27	40	48	53	Sub
Ecuador	Italian Modified Wadi M'ragh	FFL	620 std	D/Small	16	31	47	56	62		
Ecuador	Manta	PGM	119 std	E/VSmall	--	--	--	--	--	21	
Ecuador	Quito	PGM	250 std	E/VSmall	--	--	--	--	--	34	
Egypt	6 October	PTG	71 std	F/VSmall	-0.35	--	--	--	--	9.5	Wood
Egypt	Ambassador III	PTG	0 fl	D/Small	13	26	38	46	51		
Egypt	Ex-FRG Klasse 148	PTB	234 std	E/VSmall	--	--	--	--	--	32	
Egypt	Ex-FRG Klasse 701E	AOE	0 fl	C/Small	-0.25	36	71	107	128	142	Aux
Egypt	Ex-FRG Klasse 760	AE	3460 std	C/Small	-0.25	37	73	110	131	146	Aux
Egypt	Ex-PRC Type 062 [Shanghai II]	PC	122 std	E/VSmall	-0.10	--	--	--	--	19	Nat
Egypt	Ex-Russian M II	SSC	0 subm	E/VSmall	-0.50	4	8	11	14	15	Sub
Egypt	Ex-Russian Pr. 106K [Vydra]	LCM	308 std	E/VSmall	-0.35	--	--	--	--	25	Nat, Amphib
Egypt	Ex-Russian Pr. 30BA [Skory]	DD	2556 std	C/Small	-0.10	36	72	107	129	143	Nat
Egypt	Ex-Russian Pr. 183 [P-6]	PT	56 std	F/VSmall	-0.45	--	--	--	--	6.9	Nat, Wood
Egypt	Ex-Russian Pr. 183R [Komar]	PTG	66 std	F/VSmall	-0.10	--	--	--	--	13	Nat
Egypt	Ex-Russian Pr. 201M [SO I]	PC	170 std	E/VSmall	-0.10	--	--	--	--	24	Nat

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Egypt	Ex-Russian Pr. 205E [Osa I]	PTG	184 std	E/VSmall	-0.10	--	--	--	--	25	Nat
Egypt	Ex-Russian Pr. 206 [Shershen]	PT	145 std	E/VSmall	-0.10	--	--	--	--	21	Nat
Egypt	Ex-Russian Pr. 254 [T-43]	MSF	500 std	D/Small	-0.10	12	24	36	43	48	Nat
Egypt	Ex-Russian Pr. 266E [Yurka]	MSF	520 std	D/Small	-0.35	9	18	27	32	36	Nat, AAL
Egypt	Ex-Russian Pr. 613 [Whiskey]	SS	0 subm	D/Small	-0.50	13	26	39	47	52	Sub
Egypt	Ex-Russian Pr. 633 [Romeo]	SS	0 subm	C/Small	-0.50	15	31	46	55	61	Sub
Egypt	Ex-Russian Pr. 770D [Polnocny A]	LSM	704 std	D/Small	-0.35	11	22	33	40	44	Nat, Amphib
Egypt	Ex-UK Flower Class	FF	1110 std	D/Small	-0.25	17	35	52	62	69	MStd
Egypt	Ex-UK Hunt (Type 1)	FF	1000 std	D/Small		21	43	64	77	85	
Egypt	Ex-UK Modified Black Swan	DE	1475 std	D/Small		28	55	83	99	110	
Egypt	Ex-UK River (RN 1st Group)	FF	1370 std	D/Small	-0.25	20	40	59	71	79	MStd
Egypt	Ex-UK Z Class	DD	1730 std	C/Small		31	62	92	111	123	
Egypt	Ex-US Knox	FF	0 ltshp	C/Small	-0.15	42	84	126	151	168	ALS
Egypt	Ex-US O.H. Perry	FFG	0 ltshp	C/Small	-0.15	39	78	116	140	155	ALS
Egypt	Ex-US Osprey	MHC	796 std	D/Small	-0.10	17	33	50	59	66	GRP
Egypt	Moray 1400	SS	0 subm	C/Small	-0.50	15	29	44	52	58	Sub
Egypt	PRC Hainan	PC	375 std	D/Small	-0.10	10	20	30	36	40	Nat
Egypt	PRC Houku	PTG	68 std	F/VSmall	-0.10	--	--	--	--	13	Nat
Egypt	PRC Jianghu I	FF	1586 std	C/Small	-0.10	26	52	78	94	104	Nat
Egypt	PRC Romeo	SS	0 subm	C/Small	-0.50	15	31	46	55	61	Sub
Egypt	Ramadan	PTG	262 std	E/VSmall		--	--	--	--	35	
Egypt	Russian Pr. 30bis [Skory]	DD	2316 std	C/Small	-0.10	34	67	101	121	134	Nat
Egypt	Spanish Descubierta	FF	1363 std	D/Small		26	53	79	95	105	
Egypt	US 110 ft	MHC	175 std	E/VSmall	-0.65	--	--	--	--	9.3	Civ, ALS

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Egypt	US RSV-class	MSA	155 std	E/VSmall	-0.10	--	--	--	--	22	GRP
El Salvador	CG 6	PC	0 fl	F/VSmall	-0.25	--	--	--	--	12	AAL
El Salvador	US 65 foot	PC	0 fl	F/VSmall	-0.25	--	--	--	--	5.9	AAL
El Salvador	US 77 foot	PC	0 fl	F/VSmall	-0.25	--	--	--	--	7.6	AAL
El Salvador	US LCM(8)	LCM	0 ltshp	F/VSmall	-0.25	--	--	--	--	7.3	Amphib
Equatorial Guinea	Ex-Nigerian P/20	PC	0 fl	F/VSmall	-0.25	--	--	--	--	7.2	AAL
Equatorial Guinea	US 68 foot	PB	0 fl	F/VSmall	-0.25	--	--	--	--	5.9	AAL
Eritrea	French EDIC	LCU	250 std	E/VSmall	-0.25	--	--	--	--	25	Amphib
Eritrea	Israeli Super Dvora	PB	48 std	F/VSmall	-0.25	--	--	--	--	8.4	AAL
Eritrea	Russian Pr. 159A [Mod Petya II]	FFL	950 std	D/Small	-0.10	19	37	56	67	74	Nat
Eritrea	Russian Pr. 205U [Osa II]	PTG	215 std	E/VSmall	-0.10	--	--	--	--	28	Nat
Eritrea	Russian Pr. 206E [Mol]	PTH	175 std	E/VSmall	-0.10	--	--	--	--	24	Nat
Eritrea	Russian Pr. 266M [Natya I]	MSF	750 std	D/Small	-0.25	13	27	40	48	53	Nat, ALS
Eritrea	Russian Pr. 771 [Polnocny B]	LST	740 std	D/Small	-0.35	11	23	34	41	45	Nat, Amphib
Eritrea	Russian Pr. 1265 [Sonya]	MSC	430 std	D/Small	-0.20	10	20	29	35	39	Nat, GRP
Eritrea	Russian Pr. 1400 Grif [Zhuk]	PC	36 std	F/VSmall	-0.35	--	--	--	--	6	Nat, AAL
Eritrea	Russian Pr. 1785 Project 301 [T-4]	LCM	0 ltshp	F/VSmall	-0.35	--	--	--	--	6.4	Nat, Amphib
Eritrea	US 104 foot	PC	0 fl	E/VSmall	-0.25	--	--	--	--	14	AAL
Estonia	Ex-FRG Klasse 394	MSI	238 std	E/VSmall	-0.35	--	--	--	--	21	Wood
Estonia	Ex-GDR Kondor I	PB	339 std	E/VSmall	--	--	--	--	--	41	
Estonia	Ex-Russian Pr. 1400M Grif [Zhuk]	PC	36 std	F/VSmall	-0.35	--	--	--	--	6	Nat, AAL
Ethiopia	Ex-Dutch Wildervank	PB	373 std	D/Small	-0.35	7	15	22	26	29	Wood
Ethiopia	Ex-Russian Pr. 159A [Petya II]	FFL	950 std	D/Small	-0.10	19	37	56	67	74	Nat
Ethiopia	Ex-USCG Cape	PB	80 std	F/VSmall	--	--	--	--	--	16	

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Ethiopia	French EDIC	LCU	250 std	E/VSmall	-0.25	--	--	--	--	25	Amphib
Ethiopia	Russian Pr. 205U [Osa II]	PTG	215 std	E/VSmall	-0.10	--	--	--	--	28	Nat
Ethiopia	Russian Pr. 206E [Mol]	PT	220 std	E/VSmall	-0.10	--	--	--	--	28	Nat
Ethiopia	Russian Pr. 206M Shtorm [Turya]	PTH	220 std	E/VSmall	-0.10	--	--	--	--	28	Nat
Ethiopia	Russian Pr. 771 [Polnocny B]	LST	740 std	D/Small	-0.35	11	23	34	41	45	Nat, Amphib
Ethiopia	Russian Pr. 1400 Grif [Zhuk]	PC	36 std	F/VSmall	-0.35	--	--	--	--	6	Nat, AAL
Ethiopia	Russian Pr. 1785 Project 301 [T-4]	LCM	0 ltshp	F/VSmall	-0.35	--	--	--	--	6.4	Nat, Amphib
Ethiopia	US 104 foot	PC	0 fl	E/VSmall	-0.25	--	--	--	--	14	AAL
Falkland Islands	Cordella	WPS	0 fl	C/Small	-0.50	20	41	61	73	81	Civ
Falkland Islands	Ex-UK Bulldog	WPS	800 std	D/Small		18	37	55	66	73	
Falkland Islands	Falkland Desire	OPV	0 fl	C/Small	-0.50	17	35	52	62	69	Civ
Falkland Islands	Falklands Protector	OPV	0 fl	C/Small	-0.50	15	31	46	55	61	Civ
Faroe Island	Olavur Halgi	WPS	0 fl	D/Small	-0.50	13	25	38	45	50	Civ
Faroe Island	Tjaldur	WPS	0 fl	D/Small	-0.50	7	15	22	26	29	Civ
Fiji	Austrlian ASI 315	PB	0 fl	E/VSmall	-0.25	--	--	--	--	17	AAL
Fiji	Ex-Israeli Dabur	PB	25 std	F/VSmall	-0.25	--	--	--	--	5.5	AAL
Fiji	Ex-US Redwing	MSI	0 fl	E/VSmall		--	--	--	--	39	
Finland	Ex-Russian Pr. 205U [Osa II]	PTG	215 std	E/VSmall	-0.10	--	--	--	--	28	Nat
Finland	Ex-Russian Pr. 50 [Riga]	FF	1160 std	D/Small	-0.10	21	43	64	77	85	Nat
Finland	Ex-UK Bay	FF	1537 std	C/Small		28	57	85	102	113	
Finland	Halli	AG	0 fl	D/Small	-0.50	13	26	39	47	52	Civ
Finland	Hämeenmaa	MM	1000 std	D/Small	-0.25	16	32	48	58	64	ML
Finland	Hamina	PTG	235 std	E/VSmall		--	--	--	--	32	
Finland	Hylje	AG	0 fl	D/Small	-0.50	12	25	37	44	49	Civ

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Finland	Improved Valpas	WPG	0 fl	D/Small		13	26	38	46	51	
Finland	Isku (115 t std)	PTG	115 std	E/VSmall		--	--	--	--	20	
Finland	Isku (180 t fl)	PTG	0 fl	E/VSmall		--	--	--	--	24	
Finland	Kala	LCU	60 std	F/VSmall	-0.25	--	--	--	--	9.8	Amphib
Finland	Kampela	LCU	90 std	E/VSmall	-0.25	--	--	--	--	13	Amphib
Finland	Kave	LCU	27 std	F/VSmall	-0.25	--	--	--	--	5.7	Amphib
Finland	Keihassalmi	ML	290 std	E/VSmall	-0.25	--	--	--	--	28	ML
Finland	Kiiski	MSB	0 fl	G/VSmall	-0.10	--	--	--	--	5.1	GRP
Finland	Kiisla	WPC	250 std	E/VSmall	-0.25	--	--	--	--	25	AAL
Finland	Kuha (90 fl)	MSI	0 fl	F/VSmall	-0.10	--	--	--	--	14	GRP
Finland	Kuha (125 fl)	MSI	0 fl	E/VSmall	-0.10	--	--	--	--	17	GRP
Finland	Lohi	LCP	28 std	F/VSmall	-0.50	--	--	--	--	3.9	Amphib, AAL
Finland	MCMV 2010	MHS	680 std	D/Small	-0.10	15	30	44	53	59	GRP
Finland	Merikarhu	PWS	0 fl	D/Small		20	41	61	73	81	
Finland	Meriusko	LCP	8.5 std	G/VSmall	-0.50	--	--	--	--	1.8	Amphib, AAL
Finland	Modified Valas	YDT	0 fl	E/VSmall	-0.25	--	--	--	--	26	Aux
Finland	Nuoli	PB	40 std	F/VSmall		--	--	--	--	10	
Finland	Pansio	MM	0 fl	D/Small	-0.25	9	17	26	31	34	ML
Finland	PB 80 Helsinki	PTG	250 std	E/VSmall	-0.25	--	--	--	--	25	AAL
Finland	Pohjanmma	MM	0 fl	D/Small	-0.25	15	31	46	55	61	ML
Finland	Rauma	PTG	215 std	E/VSmall		--	--	--	--	31	
Finland	Ruissalo/Rihtniemi (90 t)	PC	90 std	E/VSmall		--	--	--	--	17	
Finland	Ruissalo/Rihtniemi (115 t)	PC	115 std	E/VSmall		--	--	--	--	20	
Finland	SAH-2000	WPBA	0 fl	G/VSmall	-0.30	--	--	--	--	1.7	ACV

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Finland	Silmä	WPS	530 std	D/Small		14	28	42	50	56	
Finland	T2000	PBA	84 std	F/VSmall	-0.45	--	--	--	--	9	ACV, AAL
Finland	TDX(M)	WPBA	0 fl	G/VSmall	-0.40	--	--	--	--	1.6	ACV, GRP
Finland	Telkka	WPC	0 fl	E/VSmall	-0.25	--	--	--	--	31	AAL
Finland	Tiira	WPB	0 fl	F/VSmall	-0.25	--	--	--	--	9.3	AAL
Finland	Tursas	WPG	0 fl	D/Small		16	32	47	57	63	
Finland	Turunmaa	FFL	650 std	D/Small		16	32	48	58	64	
Finland	Uisko 600	LCP	13 std	G/VSmall	-0.35	--	--	--	--	3.1	Amphib, GRP
Finland	UK Dark Adventurer	PB	50 std	F/VSmall	-0.35	--	--	--	--	7.5	Wood
Finland	Valas	YF	0 fl	E/VSmall	-0.25	--	--	--	--	24	Aux
Finland	Valvoja	AG	0 fl	E/VSmall	-0.50	--	--	--	--	19	Civ
Finland	Vietivisko	LCP	10.7 std	G/VSmall	-0.50	--	--	--	--	2.1	Amphib, AAL
Finland	Vlapas	WPS	0 fl	D/Small		13	26	38	46	51	
France	Aconit	DD	3135 std	C/Small		46	92	137	165	183	
France	Agosta	SS	0 subm	C/Small	-0.50	16	31	47	56	62	Sub
France	Amethyste	SSN	0 subm	C/Small	-0.50	21	41	62	74	82	Sub
France	Aquitaine (ASW Variant)	FF	4500 std	C/Small		58	116	174	209	232	
France	Arethuse	SS	0 subm	D/Small	-0.50	8	17	25	30	33	Sub
France	Bougainville	LSD	4200 std	C/Small	-0.25	42	83	125	149	166	Amphib
France	Cassard	DDG	4230 std	C/Small	-0.15	47	95	142	170	189	ALS
France	CDIC	LCU	369 std	D/Small	-0.25	8	17	25	30	33	Amphib
France	Champlain (770 t)	LSM	770 std	D/Small	-0.25	14	27	41	49	54	Amphib
France	Champlain (820 t)	LSM	820 std	D/Small	-0.25	14	28	42	50	56	Amphib
France	Charles de Gaulle	CVN	34600 std	A/Large		227	453	680	815	906	

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
France	Clemenceau	CV	27307 std	A/Large		193	387	580	696	773	
France	Colbert	CG	9085 std	B/Medium		93	186	278	334	371	
France	Commandant Riviere	FF	1960 std	C/Small		33	67	100	120	133	
France	D'Estienne D'Orves	FFL	1100 std	D/Small		23	46	68	82	91	
France	Daphne	SS	0 subm	D/Small	-0.50	11	22	33	40	44	Sub
France	De Grasse	CA	9380 std	B/Medium		95	190	284	341	379	
France	Durance	AO	7600 std	B/Medium	-0.25	62	124	185	222	247	Aux
France	E50	FFL	1250 std	D/Small		25	50	74	89	99	
France	E52	FFL	1250 std	D/Small		25	50	74	89	99	
France	EDIC	LCU	282 std	E/VSmall	-0.25	--	--	--	--	27	Amphib
France	Floreal	PS	2600 std	C/Small	-0.15	34	69	103	123	137	MStd90
France	Forbin	FFG	5600 std	B/Medium		67	135	202	242	269	
France	Foudre	LSD	9300 std	B/Medium	-0.25	71	142	212	255	283	Amphib
France	FREDA (AAW Variant)	FF	4500 std	C/Small		58	116	174	209	232	
France	Georges Ieygues	DD	3550 std	C/Small		50	99	149	178	198	
France	Jeanne D' Arc	CVH	10575 std	B/Medium		103	206	308	370	411	
France	L'Adroit	PB	0 fl	D/Small	-0.15	21	43	64	77	85	MStd90
France	L'Inflexible	SSBN	0 subm	B/Medium	-0.50	46	92	137	165	183	Sub
France	La Fayette	FF	3000 std	C/Small		44	89	133	159	177	
France	Le Redoutable	SSBN	0 subm	B/Medium	-0.50	46	92	138	166	184	Sub
France	Le Triomphant	SSBN	0 subm	B/Medium	-0.50	63	126	189	227	252	Sub
France	Mistral	LHD	0 fl	A/Large	-0.25	110	221	331	397	441	Amphib
France	Modified T53 ASW	DD	2900 std	C/Small	-0.15	37	74	110	132	147	ALS
France	Narval	SS	0 subm	C/Small	-0.50	17	33	50	59	66	Sub

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
France	Ouragan	LSD	5965 std	B/Medium	-0.25	53	105	158	189	210	Amphib
France	P400	PC	373 std	D/Small		11	22	33	40	44	
France	Primaguët	DD	3680 std	C/Small		51	102	152	183	203	
France	Rubis	SSN	0 subm	C/Small	-0.50	21	41	62	74	82	Sub
France	Suffren	DDG	5335 std	C/Small		65	130	195	234	260	
France	T47	DD	2750 std	C/Small	-0.15	36	71	107	128	142	ALS
France	T47 ASW	DD	2750 std	C/Small	-0.15	36	71	107	128	142	ALS
France	T47 Tartar	DDG	2750 std	C/Small	-0.15	36	71	107	128	142	ALS
France	T53	DD	2750 std	C/Small	-0.15	36	71	107	128	142	ALS
France	T56 ASW	DD	2750 std	C/Small		42	84	125	150	167	
France	Tourville	DD	4650 std	C/Small		59	119	178	213	237	
France	Trident	PC	120 std	E/VSmall		--	--	--	--	21	
France	Tripartite	MHC	535 std	D/Small	-0.10	13	26	38	46	51	GRP
FRG	Klasse 101 Hamburg	DDG	3340 std	C/Small		48	95	143	171	190	
FRG	Klasse 120 Koln	FF	2425 std	C/Small		39	77	116	139	154	
FRG	Klasse 122 Bremen	FF	2950 std	C/Small		44	88	131	158	175	
FRG	Klasse 143/143B Albatros	PTG	300 std	E/VSmall	-0.35	--	--	--	--	25	Wood
FRG	Klasse 143A Gepard	PTG	300 std	E/VSmall	-0.35	--	--	--	--	25	Wood
FRG	Klasse 148 Tiger	PTG	234 std	E/VSmall		--	--	--	--	32	
FRG	Klasse 205	SS	0 subm	D/Small	-0.50	6	13	19	23	25	Sub
FRG	Klasse 206/206A	SS	0 subm	D/Small	-0.50	7	14	21	25	28	Sub
FRG	Klasse 331A	MHC	388 std	D/Small	-0.35	7	15	22	26	29	Wood
FRG	Klasse 331B	MHC	388 std	D/Small	-0.35	7	15	22	26	29	Wood
FRG	Klasse 340	MS	241 std	E/VSmall		--	--	--	--	33	

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
FRG	Klasse 341	MS	241 std	E/VSmall	--	--	--	--	--	33	
FRG	Klasse 351	MSA	0 fl	D/Small	-0.35	8	16	23	28	31	Wood
FRG	Klasse 393	MSI	199 std	E/VSmall	-0.35	--	--	--	--	19	Wood
FRG	Klasse 401	AR	2370 std	C/Small	-0.25	29	57	86	103	114	Aux
FRG	Klasse 402	AR	2330 std	C/Small	-0.25	28	56	84	101	112	Aux
FRG	Klasse 403	AR	2400 std	C/Small	-0.25	29	58	86	104	115	Aux
FRG	Klasse 404	AGP/MCS	3450 std	C/Small	-0.25	37	73	110	131	146	Aux
FRG	Klasse 420 Thetis	FFL	575 std	D/Small		15	30	44	53	59	
FRG	Klassen 423	AGI	0 fl	C/Small	-0.25	26	51	77	92	102	Mstd
FRG	Klasse 442B	AGI	1187 std	D/Small	-0.50	12	24	36	43	48	Civ
FRG	Klasse 520	LCU	166 std	E/VSmall	-0.25	--	--	--	--	19	Amphib
FRG	Klasse 521	LCM	116 std	E/VSmall	-0.25	--	--	--	--	15	Amphib
FRG	Klasse 701A	AOE	0 ltshp	C/Small	-0.25	27	53	80	95	106	Aux
FRG	Klasse 701C	AOE	0 ltshp	C/Small	-0.25	42	83	125	149	166	Aux
FRG	Klasse 701E	AOE	0 ltshp	C/Small	-0.25	43	86	129	155	172	Aux
FRG	Klasse 703	AO	0 fl	C/Small	-0.50	16	32	48	58	64	Civ
FRG	Klasse 704	AOE	0 fl	B/Medium	-0.50	56	113	169	203	225	Civ
FRG	Klasse 726	AR	3435 std	C/Small	-0.25	37	73	110	131	146	Aux
FRG	Klasse 740	AGI	150 std	E/VSmall		--	--	--	--	24	
FRG	Klasse 760	AE	3460 std	C/Small	-0.25	37	73	110	131	146	Aux
FRG	Klasse 762	ML	2962 std	C/Small	-0.25	33	66	99	119	132	ML
FRG	Klasse 763	AO	1237 std	D/Small	-0.50	12	25	37	44	49	Civ
FRG	Klasse 766	AO	0 fl	B/Medium	-0.50	34	68	102	122	136	Civ
FRG	Klasse HL 351	MSD	91 std	E/VSmall	-0.35	--	--	--	--	11	Wood

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
FRG	US Charles F. Adams	DDG	3550 std	C/Small	-0.15	42	85	127	152	169	ALS
FRG/Unified	Klasse 123	FF	3600 std	C/Small	0.20	60	120	180	216	240	Special +20%
FRG/Unified	Klasse 124	FFG	0 fl	B/Medium	0.20	81	162	242	291	323	Special +20%
FRG/Unified	Klasse 125	FF	7200 std	B/Medium		80	159	239	286	318	
FRG/Unified	Klasse 130	FFL	1580 std	C/Small		29	58	87	104	116	
FRG/Unified	Klasse 212A	SS	0 subm	C/Small	-0.50	16	32	47	57	63	Sub
FRG/Unified	Klasse 332	MHC	590 std	D/Small		15	30	45	54	60	
FRG/Unified	Klasse 333	MHC	450 std	D/Small		13	25	38	45	50	
FRG/Unified	Klasse 343	MSC	450 std	D/Small		13	25	38	45	50	
FRG/Unified	Klasse 404	AR	0 fl	C/Small	-0.25	34	67	101	121	134	Aux
FRG/Unified	Klasse 702	AOR	0 ltshp	B/Medium	-0.25	81	162	243	292	324	Aux
Gabon	French Champlain	LSM	820 std	D/Small	-0.25	14	28	42	50	56	Amphib
Gabon	French Supre Patra	PC	371 std	D/Small		11	22	33	40	44	
Gabon	General Nazaire Boulingui	PC	0 fl	F/VSmall	-0.35	--	--	--	--	11	Wood
Gabon	Manga	LCU	0 fl	E/VSmall	-0.25	--	--	--	--	16	Amphib
Gambia	Keith Nelson 75 foot	PB	0 fl	F/VSmall		--	--	--	--	13	
Gambia	Lance	PB	0 fl	G/VSmall		--	--	--	--	5	
Gambia	PRC Type 062 [Shanghai II]	PT	122 std	E/VSmall	-0.10	--	--	--	--	19	Nat
Gambia	UK Tracker-2	PB	0 fl	F/VSmall	-0.10	--	--	--	--	6.8	GRP
Gambia	US 51 foot	PB	0 fl	G/VSmall		--	--	--	--	6.4	
Georgia	Russian Pr. 1400 Grif [Zhuk]	PC	36 std	F/VSmall	-0.35	--	--	--	--	6	Nat, AAL
Georgia	Russian Pr. 1785 Project 301 [T-4]	LCM	0 ltshp	F/VSmall	-0.35	--	--	--	--	6.4	Nat, Aux
Germany, East	Darss (i)	AFS	0 fl	D/Small	-0.25	19	38	56	68	75	Aux
Germany, East	Darss (ii)	AGI	0 fl	C/Small		32	65	97	116	129	

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Germany, East	Ex-Russian Pr. 205 [Osa I]	PTG	184 std	E/VSmall	-0.10	--	--	--	--	25	Nat
Germany, East	Ex-Russian Pr. 206 [Shershen]	PTH	220 std	E/VSmall	-0.10	--	--	--	--	28	Nat
Germany, East	Ex-Russian Pr. 1159T [Koni]	FFL	1515 std	C/Small	-0.10	25	51	76	91	101	Nat
Germany, East	Ex-Russian Pr. 1241 [Tarantul I]	PTG	385 std	D/Small	-0.10	10	21	31	37	41	Nat
Germany, East	GB 23	PC	38 std	F/VSmall	--	--	--	--	--	9.6	
Germany, East	Reims	AO	0 fl	D/Small	-0.25	18	37	55	66	73	Aux
Germany, East	Kondor I mod	MSI	339 std	E/VSmall	--	--	--	--	--	41	
Germany, East	Kondor I	AGI	339 std	E/VSmall	--	--	--	--	--	41	
Germany, East	Kondor II	MSC	414 std	D/Small		12	24	35	42	47	
Germany, East	Libelle	PT	0 fl	F/VSmall	-0.25	--	--	--	--	5.3	AAL
Germany, East	Project 108 [Frosch I]	LST	1744 std	C/Small	-0.25	23	47	70	84	93	Amphib
Germany, East	Project 109 [Frosch II]	LST	1530 std	C/Small	-0.25	21	43	64	77	85	Amphib
Germany, East	Russian Okean	AGI	0 fl	D/Small	-0.35	8	16	23	28	31	MCnv
Germany, East	Russian Pr. 1331M [Parchim I]	FFL	793 std	D/Small	-0.10	17	33	50	59	66	Nat
Germany, East	Russian Pr. 1545 [Baskunchak]	AO	0 fl	C/Small	-0.25	30	59	89	106	118	Aux
Ghana	Ex-UK Ford	PB	120 std	E/VSmall	--	--	--	--	--	21	
Ghana	Mod FBP 57	PB	380 std	D/Small		11	23	34	41	45	
Ghana	Mod FPB 45	PC	212 std	E/VSmall	--	--	--	--	--	30	
Ghana	Sahene	PB	0 fl	E/VSmall	--	--	--	--	--	23	
Ghana	UK Spear	PB	0 fl	G/VSmall	-0.10	--	--	--	--	1.7	GRP
Ghana	UK Vosper Mk1	FFL	440 std	D/Small		12	25	37	44	49	
Greece	Aris	AXT	2400 std	C/Small	-0.25	29	58	86	104	115	Aux
Greece	Combattante II	PTG	234 std	E/VSmall	-0.15	--	--	--	--	27	ALS
Greece	Combattante IIIa	PTG	385 std	D/Small		11	23	34	41	45	

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Greece	Combattante IIIb	PTG	0 fl	E/VSmall	--	--	--	--	--	41	
Greece	Ex-Belgium Adjutant	MSC	350 std	E/VSmall	-0.35	--	--	--	--	27	Wood
Greece	Ex-FRG Jaguar	PT	195 std	E/VSmall	-0.35	--	--	--	--	19	Wood
Greece	Ex-FRG Klasse 148 Tiger	PTG	234 std	E/VSmall	--	--	--	--	--	32	
Greece	Ex-FRG Klasse 401 Rhein	AR	2370 std	C/Small	-0.25	29	57	86	103	114	Aux
Greece	Ex-FRG Klasse 420 Thetis	FFL	575 std	D/Small		15	30	44	53	59	
Greece	Ex-FRG Klasse 442B	AGI	1187 std	D/Small	-0.50	12	24	36	43	48	Civ
Greece	Ex-FRG Klasse 520	LCU	166 std	E/VSmall	-0.25	--	--	--	--	19	Amphib
Greece	Ex-FRG Klasse 521	LCM	116 std	E/VSmall	-0.25	--	--	--	--	15	Amphib
Greece	Ex-FRG Klasse 701C	AOE	0 fl	C/Small	-0.25	34	69	103	123	137	Aux
Greece	Ex-FRG Silbermöwe	PT	109 std	E/VSmall	-0.15	--	--	--	--	17	ALS
Greece	Ex-Italy Adjutant	MHC	350 std	E/VSmall	-0.35	--	--	--	--	27	Wood
Greece	Ex-Italy Condottieri (4th Group)	CL	8317 std	B/Medium		88	175	263	315	350	
Greece	Ex-LCU 501	LCU	143 std	E/VSmall	-0.25	--	--	--	--	17	Amphib
Greece	Ex-Nethl. Kortenaer	FF	3000 std	C/Small		44	89	133	159	177	
Greece	Ex-UK Hunt	MHC	625 std	D/Small	-0.10	14	28	42	50	56	GRP
Greece	Ex-UK LCT(4)	LCU	0 ltshp	E/VSmall	-0.25	--	--	--	--	30	Amphib
Greece	Ex-UK LST(3)	LST	2300 std	C/Small	-0.25	28	56	83	100	111	Amphib
Greece	Ex-US Allen M Sumner FRAM II	DD	2200 std	C/Small	-0.15	31	62	92	111	123	ALS
Greece	Ex-US Asheville	PC	225 std	E/VSmall	-0.25	--	--	--	--	24	AAL
Greece	Ex-US Balao	SS	0 subm	C/Small	-0.50	19	39	58	69	77	Sub
Greece	Ex-US Cannon	FF	1390 std	D/Small		27	53	80	95	106	
Greece	Ex-US Casa Grande	LSD	4790 std	C/Small	-0.25	46	91	137	164	182	Amphib
Greece	Ex-US Charles F. Adams	DDG	3370 std	C/Small	-0.15	41	82	122	147	163	ALS

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Greece	Ex-US Fletcher	DD	2406 std	C/Small		38	77	115	138	153	
Greece	Ex-US Gato	SS	0 subm	C/Small	-0.50	19	39	58	69	77	Sub
Greece	Ex-US Gearing FRAM I	DD	2425 std	C/Small	-0.15	33	66	98	118	131	ALS
Greece	Ex-US Gearing FRAM II (ex-DDR)	DDR	2425 std	C/Small	-0.15	33	66	98	118	131	ALS
Greece	Ex-US Gleaves	DD	1630 std	C/Small		30	59	89	106	118	
Greece	Ex-US Guppy IIA	SS	0 subm	C/Small	-0.50	19	39	58	69	77	Sub
Greece	Ex-US Guppy III	SS	0 subm	C/Small	-0.50	20	40	59	71	79	Sub
Greece	Ex-US Kidd	DDG	0 ltshp	B/Medium	-0.15	72	143	215	257	286	ALS
Greece	Ex-US Knox	FF	0 ltshp	C/Small	-0.15	42	84	126	151	168	ALS
Greece	Ex-US LCM(6)	LCM	0 ltshp	F/VSmall	-0.25	--	--	--	--	5.8	Amphib
Greece	Ex-US LSM 1	LSM	480 std	D/Small	-0.25	10	20	29	35	39	Amphib
Greece	Ex-US LST 1 & LSCT 511	LST	1653 std	C/Small	-0.25	22	45	67	80	89	Amphib
Greece	Ex-US MMC	MM	720 std	D/Small	-0.25	13	26	38	46	51	ML
Greece	Ex-US Osprey	MHC	0 ltshp	D/Small	-0.10	18	36	53	64	71	GRP
Greece	Ex-US Patapsco	AO	1850 std	C/Small	-0.25	24	48	72	86	96	Aux
Greece	Ex-US Terrebone Parrish	LST	4400 std	C/Small	-0.25	43	86	129	155	172	Amphib
Greece	FRG Klasse 209/1100	SS	0 subm	D/Small	-0.50	12	24	36	43	48	Sub
Greece	FRG Klasse 209/1200	SS	0 subm	D/Small	-0.50	13	25	38	45	50	Sub
Greece	FRG Klasse 214	SS	0 subm	C/Small	-0.50	17	34	50	60	67	Sub
Greece	Italian Etna	AOR	6700 std	B/Medium	-0.25	57	114	170	204	227	Aux
Greece	Jason	LST	4400 std	C/Small	-0.25	43	86	129	155	172	Amphib
Greece	Kelefstis Stamou	PTG	80 std	F/VSmall	-0.35	--	--	--	--	10	Wood
Greece	MEKO 200 Mk3	FF	2700 std	C/Small		41	83	124	149	165	
Greece	Mod Osprey 55	PG	0 fl	D/Small		12	25	37	44	49	

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Greece	MSC 294	MSC	300 std	E/VSmall	-0.35	--	--	--	--	25	Wood
Greece	Norway Nasty	PT	67 std	F/VSmall	-0.35	--	--	--	--	9.1	Wood
Greece	Panagopoulos I	PB	0 fl	F/VSmall	-0.25	--	--	--	--	6.1	AAL
Greece	Pyrpolitis	PG	0 fl	D/Small	-0.15	11	22	33	40	44	ALS
Greece	Russian Pr. 1232.2 Pomornik [Zubr]	LCUA	415 std	D/Small	-0.55	5	11	16	19	21	Nat, Amphib, ACV
Greece	Super Vita	PGG	0 fl	D/Small	-0.15	11	23	34	41	45	ALS
Grenada	PB 02	PB	0 fl	G/VSmall		--	--	--	--	4.6	
Grenada	UK Spear	PB	0 fl	G/VSmall	-0.10	--	--	--	--	1.7	GRP
Grenada	US 106 foot Guardian	WPB	0 fl	F/VSmall	-0.25	--	--	--	--	12	AAL
Grenada	US Dauntless	WPB	0 fl	G/VSmall	-0.25	--	--	--	--	2.8	AAL
Guatemala	Ex-US LCSM(6)	LCM	24 std	F/VSmall	-0.25	--	--	--	--	5.3	Amphib
Guatemala	Swedish Jagaren	PC	310 std	E/VSmall		--	--	--	--	39	
Guatemala	US 85 foot	PC	50 std	F/VSmall	-0.25	--	--	--	--	8.7	AAL
Guatemala	US Broadsword	PC	0 fl	F/VSmall	-0.25	--	--	--	--	12	AAL
Guatemala	US Cutlass	PB	0 fl	F/VSmall		--	--	--	--	8	
Guatemala	US Machete	LCT	6 std	G/VSmall	-0.50	--	--	--	--	1.4	Amphib, AAL
Guinea	French 28 meter	PC	0 fl	F/VSmall		--	--	--	--	11	
Guinea	PRC Type 62 [Shanghai II]	PT	122 std	E/VSmall	-0.10	--	--	--	--	19	Nat
Guinea	Russian Pr. 206 [Shershen]	PTH	220 std	E/VSmall	-0.10	--	--	--	--	28	Nat
Guinea	Russian Pr. 206.5 Uliss [Bogomol]	PC	220 std	E/VSmall	-0.35	--	--	--	--	20	Nat, AAL
Guinea	Russian Pr. 532A [T-58]	ASR	812 std	D/Small	-0.10	17	34	50	60	67	Nat
Guinea	US 65 foot	PB	31 std	F/VSmall	-0.25	--	--	--	--	6.3	AAL
Guinea	US 77 foot	PB	39 std	F/VSmall	-0.25	--	--	--	--	7.3	AAL
Guinea	US Stinger	PB	0 fl	G/VSmall	-0.25	--	--	--	--	0.9	AAL

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Guinea-Bissau	Cacine	PB	0 fl	F/VSmall	--	--	--	--	--	11	
Guinea-Bissau	PRC Type 062 [Shanghai II]	PB	122 std	E/VSmall	-0.10	--	--	--	--	19	Nat
Guinea-Bissau	Russian Pr. 206.5 Uliss [Bogomol]	PC	220 std	E/VSmall	-0.35	--	--	--	--	20	Nat, AAL
Guinea-Bissau	US 51 foot Mk4	PB	0 fl	G/VSmall	-0.25	--	--	--	--	4.8	AAL
Guyana	Ex-DPRK PB	PB	0 fl	F/VSmall	-0.10	--	--	--	--	7.4	Nat
Guyana	Ex-UK River	MS	630 std	D/Small	-0.25	12	24	35	42	47	MStd
Guyana	US Whaler	PB	1 std	G/VSmall	-0.10	--	--	--	--	0.8	GRP
Guyana	Vosper 103 foot	PC	96 std	E/VSmall	--	--	--	--	--	18	
Haiti	Ex-US Sotoyomo	Tug	689 std	D/Small		17	33	50	59	66	
Haiti	US 25 foot Guardian	WPB	0 fl	G/VSmall	-0.10	--	--	--	--	1.1	GRP
Haiti	US 3812-VCF	PC	8 std	G/VSmall	--	--	--	--	--	3.4	
Haiti	US 65 foot	PB	0 fl	F/VSmall	--	--	--	--	--	7.9	
Honduras	105 foot	PB	0 fl	E/VSmall	-0.25	--	--	--	--	13	AAL
Honduras	106 foot	PB	0 fl	F/VSmall	-0.25	--	--	--	--	12	AAL
Honduras	Punta Caxinas	LCU	0 fl	D/Small	-0.25	8	16	24	29	32	Amphib
Honduras	US 25 foot Guardian	WPB	0 fl	G/VSmall	-0.15	--	--	--	--	1	ALS
Honduras	US 65 foot	PB	33 std	F/VSmall	-0.25	--	--	--	--	6.6	AAL
Honduras	US 85 foot	PB	50 std	F/VSmall	-0.25	--	--	--	--	8.7	AAL
Honduras	US LCM(8)	LCM	56 std	F/VSmall	-0.25	--	--	--	--	9.3	Amphib
Hong Kong	ASI-315	WPC	148 std	E/VSmall	--	--	--	--	--	24	
Hong Kong	Damen Mk3	WPB	85 std	F/VSmall	--	--	--	--	--	16	
Hong Kong	Sea Panther	WPC	420 std	D/Small		12	24	36	43	48	
Iceland	Aegir	OPB	1150 std	D/Small		24	47	71	85	94	
Iceland	Odinn	OPB	0 fl	D/Small		19	38	57	68	76	

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
India	13 m Patrol Craft	PB	0 fl	G/VSmall	--	--	--	--	--	4	
India	Aditya (ex-Rajaba Gan Palan)	AOR	7000 std	B/Medium	-0.25	59	117	176	211	234	Aux
India	Arihant	SSBN	0 subm	B/Medium	-0.50	39	78	117	140	156	Sub
India	Car Nicobar	PC	288 std	E/VSmall	-0.15	--	--	--	--	32	ALS
India	CE-2F	Chariot	0 subm	G/VSmall	-0.50	0.18	0.35	0.53	0.63	0.7	Sub
India	Cochin	WPB	290 std	E/VSmall	-0.15	--	--	--	--	32	ALS
India	Deepak	AOR	6785 std	B/Medium	-0.25	57	115	172	206	229	Aux
India	Deepak (ii)	AOR	0 fl	A/Large	-0.25	131	262	392	471	523	Aux
India	Ex-Russian Pr. 670A [Charlie I]	SSGN	0 subm	C/Small	-0.50	31	62	92	111	123	Sub
India	Ex-Russian Pr. 971 Shchuka-Bars [Akula I]	SSN	0 subm	B/Medium	-0.50	50	99	149	178	198	Sub
India	Ex-Russian Pr. 1143.4 [Mod Kiev]	CV	40000 std	A/Large	-0.10	225	449	674	808	898	Nat
India	Ex-UK Bangor (Steam Recip)	MSF	656 std	D/Small	-0.25	12	24	36	43	48	MStd
India	Ex-UK Bangor (Steam Turbine)	MSF	605 std	D/Small	-0.25	12	23	35	41	46	MStd
India	Ex-UK Bathurst	MSF	790 std	D/Small		18	37	55	66	73	
India	Ex-UK Blackwood (Type 14)	FF	1180 std	D/Small		24	48	71	86	95	
India	Ex-UK Centaur	CVH	23900 std	A/Large		177	354	531	637	708	
India	Ex-UK Fiji	CL	8700 std	B/Medium		90	181	271	325	361	
India	Ex-UK Ham	MSI	120 std	E/VSmall	-0.35	--	--	--	--	13	Wood
India	Ex-UK Hunt (Type 2)	FF	1050 std	D/Small		22	44	66	79	88	
India	Ex-UK Leander	CL	7114 std	B/Medium		79	158	236	284	315	
India	Ex-UK LST 3	LST	0 ltshp	C/Small	-0.25	30	60	89	107	119	Amphib
India	Ex-UK Majestic	CVH	15700 std	B/Medium	-0.25	100	201	301	361	401	MStd
India	Ex-UK R class	DD	1725 std	C/Small		31	62	92	111	123	
India	Ex-UK Ton	MSC	360 std	D/Small	-0.35	7	14	21	25	28	Wood

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
India	Ex-US Austin	LPD	11050 std	B/Medium	-0.25	79	159	238	285	317	Amphib
India	Ex-US LCM(8)	LCM	65.6 std	F/VSmall	-0.25	--	--	--	--	10	Amphib
India	France Scorpene	SS	0 subm	C/Small	-0.50	15	31	46	55	61	Sub
India	FRG Klasse 209/1500	SS	0 subm	C/Small	-0.50	16	32	48	58	64	Sub
India	Inshore Patrol Craft	WPB	0 fl	F/VSmall	-0.10	--	--	--	--	9.3	GRP
India	Interceptor Craft	WPB	76 std	F/VSmall	-0.25	--	--	--	--	11	AAL
India	Israeli Super Dvora MkIII	PB	48 std	F/VSmall	--	--	--	--	--	11	
India	Jija Bai	WPC	0 ltshp	E/VSmall	--	--	--	--	--	30	
India	Jija Bai Mod 1	WPC	0 ltshp	E/VSmall	--	--	--	--	--	33	
India	Mk2/Mk3	LSM	0 fl	D/Small	-0.25	9	18	27	32	36	Amphib
India	Magar	LST	3200 std	C/Small	-0.25	35	70	104	125	139	Amphib
India	Polish Project 773I/773IM [Polnocny C/D]	LST	1192 std	D/Small	-0.25	18	36	54	65	72	Amphib
India	Project 15 Delhi	DDG	5500 std	C/Small		67	133	200	239	266	
India	Project 15A Kolkata	DDG	5500 std	C/Small		67	133	200	239	266	
India	Project 15B	DDG	0 fl	B/Medium		77	153	230	275	306	
India	Project 16 Godavari	FF	3700 std	C/Small		51	102	153	184	204	
India	Project 16A Brahmapurtra	FF	3850 std	C/Small		52	105	157	188	209	
India	Project 17 Shivalik	FFG	4600 std	C/Small	-0.10	53	106	159	191	212	
India	Project 25 Khukri	FFL	0 fl	D/Small		23	47	70	84	93	
India	Project 25A Kora	FFL	0 fl	D/Small		25	49	74	88	98	
India	Project 28 Kamorta	FFL	2500 std	C/Small		39	79	118	141	157	
India	Project 71 Vikrant	CV	0 fl	A/Large		224	448	671	806	895	
India	Rajshree	WPC	305 std	E/VSmall	--	--	--	--	--	39	
India	Rani Abbakka	WPC	275 std	E/VSmall	--	--	--	--	--	36	

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
India	Russian Pr. 61ME [Kashin II] (4050 t)	DDG	4050 std	C/Small	-0.25	41	81	122	146	162	Nat, ALS
India	Russian Pr. 61ME [Kashin II] (4158 t)	DDG	4158 std	C/Small	-0.25	41	83	124	149	165	Nat, ALS
India	Russian Pr. 159AE [Petya III]	FFL	950 std	D/Small	-0.10	19	37	56	67	74	Nat
India	Russian Pr. 205 Tsunami [Osa I]	PTG	184 std	E/VSmall	-0.10	--	--	--	--	25	Nat
India	Russian Pr. 205ME [Osa II]	PTG	215 std	E/VSmall	-0.10	--	--	--	--	28	Nat
India	Russian Pr. 266ME Akvamaarine [Natya I]	MSF	750 std	D/Small	-0.25	13	27	40	48	53	Nat, ALS
India	Russian Pr. 641E [Foxtrot]	SS	0 subm	C/Small	-0.50	20	39	59	70	78	Sub
India	Russian Pr. 877EKM [Kilo]	SS	0 subm	C/Small	-0.50	23	45	68	81	90	Sub
India	Russian Pr. 1135.6	FFG	3620 std	C/Small	-0.10	45	91	136	163	181	Nat
India	Russian Pr. 1234E [Nanuchka II]	PGG	580 std	D/Small	-0.10	13	27	40	48	53	Nat
India	Russian Pr. 1241.8 [Tarantul IV]	PTG	0 fl	D/Small	-0.10	11	22	32	39	43	Nat
India	Russian Pr. 1241PE [Pauk II]	PC	425 std	D/Small	-0.25	9	18	27	32	36	Nat, ALS
India	Russian Pr. 1241RE [Tarantul I]	PTG	0 ltshp	D/Small	-0.25	9	19	28	33	37	Nat, ALS
India	Russian Pr. 1258E [Yevgenya]	MSI	89 std	E/VSmall	-0.20	--	--	--	--	14	Nat, GRP
India	Russian Pr. 1886E [Urga]	AS	6780 std	B/Medium	-0.35	50	100	149	179	199	Nat, Aux
India	Russian Pr. 15966 Komandarm Fedko	AOR	0 grt	C/Small	-0.35	42	84	125	150	167	Nat, Aux
India	Sakti	AOR	3500 std	C/Small	-0.25	37	74	110	132	147	Aux
India	Samar	WPS	1765 std	C/Small		31	62	93	112	124	
India	Samudra	WPS	0 fl	C/Small		43	86	128	154	171	
India	Sandhayak	AGS	1329 std	D/Small		26	52	77	93	103	
India	Sankalp	WPS	0 fl	C/Small		33	66	99	119	132	
India	Sarojini	WPC	235 std	E/VSmall		--	--	--	--	32	
India	Saryu	PS	0 fl	C/Small		33	66	98	118	131	
India	SDB Mk3	PC	167 std	E/VSmall		--	--	--	--	26	

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
India	SDB Mk5	PC	0 fl	E/VSmall	--	--	--	--	--	31	
India	Shardul	LST	0 fl	C/Small	-0.25	45	91	136	163	181	Amphib
India	South Korean Kangnam	MHC	885 std	D/Small	-0.10	18	36	53	64	71	GRP
India	South Korean Swallow 65	WPB	32 std	F/VSmall	--	--	--	--	--	8.6	
India	Sukanya	PS	1650 std	C/Small		30	60	89	107	119	
India	Sutlej	FF	1300 std	D/Small		25	51	76	91	101	
India	Tara Bai	WPC	173 std	E/VSmall		--	--	--	--	26	
India	UK Black Swan	FF	1470 std	D/Small		28	55	83	99	110	
India	UK Leander (Broad Beam) (i)	FF	2550 std	C/Small		40	80	119	143	159	
India	UK Leander (Broad Beam) (ii)	FF	2682 std	C/Small		41	83	124	149	165	
India	UK Leander (Broad Beam) (iii)	FF	2970 std	C/Small		44	88	132	158	176	
India	UK Leopard (Type 41)	FF	2300 std	C/Small		37	74	111	133	148	
India	UK Whitby (Type 12)	FF	2150 std	C/Small		36	71	107	128	142	
India	Vasco da Gama	LCU	0 fl	D/Small	-0.25	9	18	27	32	36	Amphib
India	Vikram	WPS	1064 std	D/Small		22	45	67	80	89	
India	Vishwast	WPS	1840 std	C/Small		32	64	96	115	128	
India	YAG	LCVP	9.5 std	G/VSmall	-0.25	--	--	--	--	2.9	Amphib
Indonesia	Class 860	PC	0 subm	E/VSmall	-0.15	--	--	--	--	20	ALS
Indonesia	Ex-Australian Attack	PC	200 std	E/VSmall	-0.15	--	--	--	--	25	ALS
Indonesia	Ex-DDR Frosh I	LST	1744 std	C/Small	-0.25	23	47	70	84	93	Amphib
Indonesia	Ex-DDR Frosh II	LKA	1530 std	C/Small	-0.25	21	43	64	77	85	Amphib
Indonesia	Ex-DDR Type 133.1	FFL	793 std	D/Small		18	37	55	66	73	
Indonesia	Ex-DDR/FRG Kondor II	MSC	414 std	D/Small		12	24	35	42	47	
Indonesia	Ex-FRG Klasse 206	SS	0 subm	D/Small	-0.50	7	14	21	25	28	Sub

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Indonesia	Ex-Nethl. Van Speijk	FF	2305 std	C/Small		37	75	112	134	149	
Indonesia	Ex-Russian Pr. 50 [Riga]	FF	1160 std	D/Small	-0.10	21	43	64	77	85	Nat
Indonesia	Ex-Russian Pr. 613 [Whiskey]	SS	0 subm	D/Small	-0.50	13	26	39	47	52	Sub
Indonesia	Ex-UK Rover	AOR	0 ltshp	C/Small	-0.25	49	98	146	176	195	Aux
Indonesia	Ex-UK Tribal	FF	2300 std	C/Small		37	74	111	133	148	
Indonesia	Ex-US Claud Jones	FF	1720 std	C/Small		31	61	92	110	122	
Indonesia	Ex-US LST-542 class	LST	0 ltshp	C/Small	-0.25	24	49	73	87	97	Amphib
Indonesia	Fatahilah	FFL	1160 std	D/Small		24	47	71	85	94	
Indonesia	FRG Klasse 209/1300	SS	0 subm	D/Small	-0.50	13	27	40	48	53	Sub
Indonesia	Hajar Dewantara	FFT	0 fl	C/Small		29	58	86	104	115	
Indonesia	Klewang (ii)	PTG	54 std	F/VSmall	-0.10	--	--	--	--	11	GRP
Indonesia	Klewang (i)	PTG	219 std	E/VSmall	-0.10	--	--	--	--	28	GRP
Indonesia	PB 57	PT	356 std	D/Small		11	22	32	39	43	
Indonesia	PSK Mk5	PTG	250 std	E/VSmall	-0.25	--	--	--	--	25	AAL
Indonesia	Sorong	AOR	0 grt	C/Small	-0.25	34	68	101	122	135	Aux
Indonesia	Teluk Semangka	LST	1800 std	C/Small	-0.25	24	48	71	86	95	Amphib
Indonesia	Tripartite	MHS	502 std	D/Small	-0.10	12	24	36	43	48	GRP
International	Break Bulk freighter	Merch	0 grt	B/Medium	-0.50	41	82	122	147	163	Civ
International	Emma Maersk	CON	0 grt	A/Large	-0.50	270	541	811	973	1081	Civ
International	Generic Fishing Ship	TRA	300 std	E/VSmall	-0.50	--	--	--	--	19	Civ
International	Generic Merchant	AK	10000 std	B/Medium	-0.50	50	99	149	178	198	Civ
International	Generic Tanker	AOR	20000 std	A/Large	-0.50	79	157	236	283	314	Civ
International	New Vanguard	VLCC	0 grt	A/Large	-0.75	130	259	389	466	518	SpTnk
International	Puteri Intan	LNG	0 grt	A/Large	-0.50	172	344	515	618	687	Civ

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
International	Sea Land Finance	CON	0 fl	A/Large	-0.50	139	278	417	500	556	Civ
International	Stena Explorer	Ferry	0 grt	B/Medium	-0.75	32	64	95	114	127	Civ, AAL
International	Sun Princess	Cruise	0 grt	A/Large	-0.50	159	319	478	573	637	Civ
International	400 TEU RORO/LOLO	Container	0 grt	C/Small	-0.50	31	62	92	111	123	Civ
International	PC-1 Product/Chemical Tanker	Tanker	0 subm	A/Large	-0.50	102	204	305	366	407	Civ
Iran	Arya Sahand	LSM	0 ltshp	D/Small	-0.25	13	25	38	45	50	Amphib
Iran	Ashoora	WPB	1 std	G/VSmall	--	--	--	--	--	0.9	
Iran	Bandar Abbas	AOR	0 fl	C/Small	-0.25	40	80	120	144	160	Aux
Iran	BHC BH 7 Wellington (Mk4, Mk5)	LCMA	0 fl	F/VSmall	-0.55	--	--	--	--	4.9	Amphib, ACV
Iran	Bushehr	AGS	0 fl	C/Small	-0.60	18	37	55	66	73	MCnv, Aux
Iran	C-14 Catamaran	PTG	19 std	G/VSmall	-0.25	--	--	--	--	4.5	MHull
Iran	Combattante IIB	PTG	249 std	E/VSmall	--	--	--	--	--	34	
Iran	Damavand	FFL	1300 std	D/Small		25	51	76	91	101	
Iran	Delvar	AE/AK/AW	0 fl	D/Small	-0.25	16	32	47	57	63	Aux
Iran	Ex-US Allen M Sumner FRAM II	DDG	2200 std	C/Small	-0.15	31	62	92	111	123	ALS
Iran	Ex-US Cape	MSI	203 std	E/VSmall	-0.35	--	--	--	--	19	Wood
Iran	Ex-US Falcon	MSC	300 std	E/VSmall	-0.35	--	--	--	--	25	Wood
Iran	Ex-US PF-103	PS	900 std	D/Small		20	40	59	71	79	
Iran	Ex-US PGM-71	PC	130 std	E/VSmall		--	--	--	--	22	
Iran	Ex-US Tang	SS	0 subm	C/Small	-0.50	18	37	55	66	73	Sub
Iran	Fateh	SSM	0 subm	D/Small	-0.50	7	14	20	24	27	Sub
Iran	Fouque (MIG-S-3700)	LSL	0 fl	E/VSmall	-0.25	--	--	--	--	24	Amphib
Iran	FRG Klasse 209/1400	SS	0 subm	D/Small	-0.50	13	27	40	48	53	Sub
Iran	Ghadir	SSM	0 subm	E/VSmall	-0.50	3	5	8	9	10	Sub

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Iran	Hendijan	AGS	0 fl	D/Small	-0.25	9	17	26	31	34	Aux
Iran	Hengam	LST	0 fl	C/Small	-0.25	30	59	89	106	118	Amphib
Iran	Iran Hormuz 21	LCU	0 fl	D/Small	-0.25	17	34	51	61	68	Amphib
Iran	Jamaran	FFL	1420 std	D/Small		27	54	81	97	108	
Iran	Karbala (MIG-S-3700-LC1)	LCU	0 fl	E/VSmall	-0.25	--	--	--	--	26	Amphib
Iran	Kharg	AOR	0 fl	A/Large	-0.25	148	296	443	532	591	Aux
Iran	NATO Standard	FF	3000 std	C/Small		44	89	133	159	177	
Iran	Peykaap	WPTG	13.75 std	G/VSmall		--	--	--	--	4.9	
Iran	PRC Houdong	PTG	118 std	E/VSmall	-0.10	--	--	--	--	18	Nat
Iran	Russian Pr. 877EKM [Kilo]	SS	0 subm	C/Small	-0.50	23	45	68	81	90	Sub
Iran	Saam (Vosper Mk5)	FF	1250 std	D/Small	-0.15	21	42	63	76	84	ALS
Iran	Swedish Boghammar	WPB	0 fl	G/VSmall	-0.25	--	--	--	--	2	AAL
Iran	Tir	WPTG	28 std	F/VSmall	-0.10	--	--	--	--	7.1	Nat
Iran	US Mod Spruance	CG	0 ltshp	B/Medium	-0.15	72	143	215	257	286	ALS
Iran	USCG Cape class	PB	85 std	F/VSmall		--	--	--	--	16	
Iran	Wosao	MSC	0 fl	E/VSmall		--	--	--	--	36	
Iraq	Al Zahraa	AK	0 fl	C/Small	-0.50	31	62	92	111	123	Civ
Iraq	Assad	FFL	610 std	D/Small		15	31	46	55	61	
Iraq	Ex-Kuwait FPB 57	PTG	353 std	D/Small		11	22	32	39	43	
Iraq	Ex-Kuwait TNC-45	PTG	231 std	E/VSmall		--	--	--	--	32	
Iraq	Ex-Russian Pr. 183 [P-6]	PT	61 std	F/VSmall	-0.10	--	--	--	--	12	Nat
Iraq	Ex-Russian Pr. 205M [Osa I]	PTG	184 std	E/VSmall	-0.10	--	--	--	--	25	Nat
Iraq	Ex-Russian Pr. 205U [Osa II]	PTG	215 std	E/VSmall	-0.10	--	--	--	--	28	Nat
Iraq	Ex-Russian Pr. 368T [Roluchat I]	PB	85 std	F/VSmall	-0.10	--	--	--	--	15	Nat

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Iraq	Ex-Russian Pr. 1400 Grif [Zhuk]	PC	36 std	F/VSmall	-0.35	--	--	--	--	6	Nat, AAL
Iraq	Ibn Khaldoun	FFT	1500 std	D/Small		28	56	84	101	112	
Iraq	Italian Lupo	FF	2213 std	C/Small		36	73	109	131	145	
Iraq	Italian Stromboli	AOR	4200 std	C/Small	-0.25	42	83	125	149	166	Aux
Iraq	Russian Pr. 206.5 Uliss [Bogomol]	PC	220 std	E/VSmall	-0.35	--	--	--	--	20	Nat, AAL
Iraq	Russian Pr. 1258 [Yevgenya]	MSI	95 std	E/VSmall	-0.45	--	--	--	--	9.7	Nat, Aux, GRP
Iraq	Russian Pr. 201M [SO I]	PB	190 std	E/VSmall	-0.10	--	--	--	--	25	Nat
Iraq	Russian Pr. 254 [T-43]	MSF	500 std	D/Small	-0.35	9	18	26	32	35	Nat, Aux
Iraq	Russian Pr. 776 [Polnocny D]	LSM	1026 std	D/Small	-0.35	14	28	42	50	56	Nat, Aux
Iraq	Russian Pr. 1241PE [Mod Pauk II]	PG	425 std	D/Small	-0.35	8	16	23	28	31	Nat, AAL
Iraq	Saettia Mk4	PC	0 fl	E/VSmall		--	--	--	--	42	
Iraq	Swary	PB	0 fl	G/VSmall	-0.10	--	--	--	--	2.5	GRP
Iraq	Swiftship 35m	PB	95 std	E/VSmall	-0.15	--	--	--	--	15	ALS
Iraq	Wadi M'ragh	FFL	600 std	D/Small		15	31	46	55	61	
Iraq	Yugoslav Nestin	MSB	65 std	F/VSmall	-0.25	--	--	--	--	10	AAL
Iraq	Yugoslav PB 90	BP	80 std	F/VSmall		--	--	--	--	16	
Ireland (Eire)	Deidre	PG	0 fl	D/Small		19	38	56	68	75	
Ireland (Eire)	Emer	PS	0 fl	D/Small		20	39	59	70	78	
Ireland (Eire)	Ex-UK Flower	FF	1110 std	D/Small	-0.25	17	35	52	62	69	MStd
Ireland (Eire)	Ex-UK Peacock	PC	690 std	D/Small		17	34	50	60	67	
Ireland (Eire)	Ex-UK Ton	MSC	360 std	D/Small	-0.35	7	14	21	25	28	Wood
Ireland (Eire)	P 31	PS	1760 std	C/Small		31	62	93	112	124	
Ireland (Eire)	Roisin	PS	1400 std	D/Small		27	54	80	96	107	
Israel	Ashdod	LCT	400 std	D/Small	-0.25	9	18	26	32	35	Amphib

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Israel	Ayah	PT	62 std	F/VSmall	-0.35	--	--	--	--	8.7	Wood
Israel	Dabur	PB	25 std	F/VSmall	-0.25	--	--	--	--	5.5	AAL
Israel	FRG IKL 800	SS	0 subm	C/Small	-0.50	15	31	46	55	61	Sub
Israel	Etzion Gueber	LCT	182 std	E/VSmall	-0.25	--	--	--	--	21	Amphib
Israel	Ex-FRG Klasse 745	YAGE	400 std	D/Small	-0.25	9	18	26	32	35	Aux
Israel	Ex-UK S class	SS	0 subm	D/Small	-0.50	11	22	32	39	43	Sub
Israel	Ex-UK T class Conversion	SS	0 subm	C/Small	-0.50	15	31	46	55	61	Sub
Israel	Ex-UK Z class	DD	1710 std	C/Small		31	61	92	110	122	
Israel	FRG IKL 500	SS	0 subm	D/Small	-0.50	8	15	23	27	30	Sub
Israel	FRG IKL 800	SS	0 subm	C/Small	-0.50	15	31	46	55	61	Sub
Israel	Nachshil	PB	23 std	F/VSmall	-0.35	--	--	--	--	4.5	MHull, GRP
Israel	Nirit	PTG	0 fl	D/Small		12	24	35	42	47	
Israel	Sa'ar 1/Mirtach	PTG	220 std	E/VSmall	-0.15	--	--	--	--	26	ALS
Israel	Sa'ar 2/Saar	PTG	220 std	E/VSmall	-0.15	--	--	--	--	26	ALS
Israel	Sa'ar 4.5/Aliya	PTG	0 fl	D/Small	-0.15	10	21	31	37	41	ALS
Israel	Sa'ar 4.5/Romat	PTG	375 std	D/Small		11	22	33	40	44	
Israel	Sa'ar 4/Reshef	PTG	415 std	D/Small	-0.15	10	20	30	36	40	ALS
Israel	Sa'ar 5	FFL	1075 std	D/Small	-0.15	19	38	57	68	76	ALS
Israel	Shaldag MkII	PB (New)	40 std	F/VSmall	-0.25	--	--	--	--	7.5	AAL
Israel	Shimrit	PTG	0 ltshp	F/VSmall	-0.15	--	--	--	--	13	ALS
Israel	Super Dvora	PB	48 std	F/VSmall	-0.25	--	--	--	--	8.4	AAL
Israel	Super Dvora MkIII	PB	57 std	F/VSmall	-0.25	--	--	--	--	9.5	AAL
Italy	Albatross	FFL	800 std	D/Small		18	37	55	66	73	
Italy	Alpino	FF	2000 std	C/Small		34	68	101	122	135	

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Italy	Andrea Doria	CHG	6500 std	B/Medium		74	149	223	267	297	
Italy	Argosta	MSI	119 std	E/VSmall	-0.35	--	--	--	--	13	Wood
Italy	Artigliere	FF	2213 std	C/Small		36	73	109	131	145	
Italy	Audace	DDG	3950 std	C/Small		53	107	160	192	213	
Italy	Bergamini (i)	FF	1410 std	D/Small		27	54	80	96	107	
Italy	Bergamini (ii)	FF	6900 std	B/Medium		77	155	232	278	309	
Italy	Cassiopea	PS	1110 std	D/Small		23	46	68	82	91	
Italy	Comandante	PS	1430 std	D/Small		27	54	81	97	108	
Italy	Comandante (Foscari)	PS	1430 std	D/Small	-0.10	24	49	73	87	97	GRP
Italy	Conte de Cavour	CVH	22290 std	A/Large		169	338	506	608	675	
Italy	Enrico Toti	SS	0 subm	D/Small	-0.50	8	15	23	27	30	Sub
Italy	Etna	AOR	0 fl	B/Medium	-0.25	51	102	153	184	204	Aux
Italy	Ex-US Adjutant/Agave	MSC	350 std	E/VSmall	-0.35	--	--	--	--	27	Wood
Italy	Ex-US Agile	MSO	755 std	D/Small	-0.35	12	23	35	41	46	Wood
Italy	Ex-US Balao	SS	0 subm	C/Small	-0.50	19	37	56	67	74	Sub
Italy	Ex-US Benson	DD	1836 std	C/Small		32	64	96	115	128	
Italy	Ex-US Cannon	FF	1240 std	D/Small		25	49	74	88	98	
Italy	Ex-US De Soto County	LST	0 ltshp	C/Small	-0.25	43	86	128	154	171	Amphib
Italy	Ex-US Gato	SS	0 subm	C/Small	-0.50	19	37	56	67	74	Sub
Italy	Ex-US Gleaves	DD	1630 std	C/Small		30	59	89	106	118	
Italy	Ex-US Tang	SS	0 subm	C/Small	-0.50	18	37	55	66	73	Sub
Italy	FRG Klasse 212A	SSP	0 subm	C/Small	-0.50	16	32	47	57	63	Sub
Italy	Gaeta	MHC	665 std	D/Small	-0.10	15	29	44	52	58	GRP
Italy	Giuseppe Garibaldi	CVH	10100 std	B/Medium		100	199	299	358	398	

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Italy	Horizon	DDG	5600 std	B/Medium		67	135	202	242	269	
Italy	Impavido	DDG	3200 std	C/Small		46	93	139	167	185	
Italy	Impetuoso	DD	2775 std	C/Small		42	84	126	151	168	
Italy	Lerici	MSC	488 std	D/Small	-0.10	12	24	36	43	48	GRP
Italy	Luigi Durande de la Penne	DDG	4500 std	C/Small		58	116	174	209	232	
Italy	Lupo	FF	2208 std	C/Small		36	72	108	130	144	
Italy	Maestrale	FF	3040 std	C/Small		45	90	134	161	179	
Italy	Minerva	FFL	1029 std	D/Small		22	44	65	78	87	
Italy	Nazario Sauro	SS	0 subm	C/Small	-0.50	15	30	44	53	59	Sub
Italy	Pietro De Cristofaro	FFL	850 std	D/Small		19	38	57	68	76	
Italy	Primo Longobardo	SS	0 subm	C/Small	-0.50	16	32	48	58	64	Sub
Italy	Salvatore Pelosi	SS	0 subm	C/Small	-0.50	15	30	45	54	60	Sub
Italy	San Giorgio	LPD	6687 std	B/Medium	-0.25	57	114	170	204	227	Amphib
Italy	San Giusto	LPD	0 ltshp	B/Medium	-0.25	69	138	207	248	276	Amphib
Italy	Sirio	PS	0 fl	D/Small	-0.15	22	44	66	79	88	Special-15%
Italy	Sparviero	PTGH	0 fl	F/VSmall	-0.25	--	--	--	--	8.8	AAL
Italy	Stromboli	AOR	4200 std	C/Small	-0.25	42	83	125	149	166	Aux
Italy	Vittorio Veneto	CHG	8130 std	B/Medium		86	173	259	311	345	
Ivory Coast	French Batral-E	LSM	750 std	D/Small	-0.25	13	27	40	48	53	Amphib
Ivory Coast	French Patra	PC	125 std	E/VSmall		--	--	--	--	21	
Ivory Coast	PR-48	PC	0 ltshp	E/VSmall		--	--	--	--	37	
Jamaica	Fort Charles	PB	0 fl	F/VSmall		--	--	--	--	16	
Jamaica	Guardian	PB	0 fl	F/VSmall	-0.25	--	--	--	--	12	AAL
Japan	Abukuma	FF	2050 std	C/Small		35	69	104	124	138	

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Japan	Akizuki (i)	DD	2350 std	C/Small		38	76	113	136	151	
Japan	Akizuki (ii)	DD	5000 std	C/Small		62	125	187	224	249	
Japan	Amatsukaze	DDG	3050 std	C/Small	-0.15	38	76	114	137	152	ALS
Japan	Asagiri (151-154)	DD	3500 std	C/Small		49	98	147	176	196	
Japan	Asagiri (155-158)	DD	3500 std	C/Small		49	98	147	176	196	
Japan	Atada	MSC	240 std	E/VSmall	-0.35	--	--	--	--	21	Wood
Japan	Atago	DDG	0 ltshp	B/Medium	-0.15	77	154	230	276	307	MStd90,
Japan	Atsumi (1480 t)	LST	1480 std	D/Small	-0.25	21	42	62	75	83	Amphib
Japan	Atsumi (1550 t)	LST	1550 std	C/Small	-0.25	22	43	65	77	86	Amphib
Japan	Ayanami	DD	1700 std	C/Small		30	61	91	109	121	
Japan	Chihaya	ASR	5400 std	C/Small	-0.25	49	99	148	177	197	Aux
Japan	Chikugo (1470 t)	FF	1470 std	D/Small		28	55	83	99	110	
Japan	Chikugo (1530 t)	FF	1530 std	C/Small		28	57	85	102	113	
Japan	Chyoda	ASR	3690 std	C/Small	-0.25	38	77	115	138	153	Aux
Japan	Erimo	MM	630 std	D/Small		16	32	47	57	63	
Japan	Ex-US LST-542 class	LST	0 ltshp	C/Small	-0.25	24	48	72	86	96	Amphib
Japan	Haruna	DDH	4700 std	C/Small	-0.15	51	102	152	183	203	ALS
Japan	Haruna (FRAM)	DDH	4950 std	C/Small	-0.15	53	105	158	189	210	ALS
Japan	Harushio	SS	0 subm	C/Small	-0.50	21	42	63	76	84	Sub
Japan	Harushio (Asashio)	SS	0 subm	C/Small	-0.50	24	47	71	85	94	Sub
Japan	Hatakze	DDG	4600 std	C/Small		59	118	177	212	236	
Japan	Hatakze (Shimakaze)	DDG	4650 std	C/Small		59	119	178	213	237	
Japan	Hatsushima	MHC	440 std	D/Small	-0.35	8	16	24	29	32	Wood
Japan	Hatsuyuki	DD	3050 std	C/Small	-0.15	38	76	114	137	152	ALS

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Japan	Hatsuyuki (Steel)	DD	3050 std	C/Small		45	90	134	161	179	
Japan	Hayabusa (i)	PC	370 std	D/Small		11	22	33	40	44	
Japan	Hayabusa (ii)	PTG	200 std	E/VSmall		--	--	--	--	29	
Japan	Hayase	MCS	2000 std	C/Small		34	68	101	122	135	
Japan	Hibiki	AG	3715 std	C/Small	-0.25	38	77	115	138	153	MHull
Japan	Hyuga	CVH	13500 std	B/Medium		121	242	362	435	483	
Japan	Ishikari	FF	1200 std	D/Small	-0.15	21	41	62	74	82	ALS
Japan	Izumo	CVH	19500 std	A/Large		155	309	464	556	618	
Japan	Isuzu	FF	1490 std	D/Small		28	56	83	100	111	
Japan	Kamome (310 t)	PC	310 std	E/VSmall		--	--	--	--	39	
Japan	Kamome (330 t)	PC	330 std	E/VSmall		--	--	--	--	41	
Japan	Kasado	MSC	330 std	E/VSmall	-0.35	--	--	--	--	26	Wood
Japan	Kashima	AXT	4050 std	C/Small	-0.25	41	81	122	146	162	Aux
Japan	Katori	AXT	3372 std	C/Small	-0.25	36	72	108	130	144	Aux
Japan	Kongo	DDG	7250 std	B/Medium	-0.15	68	136	203	244	271	MStd90,
Japan	Mashu	AOR	13500 std	B/Medium	-0.25	91	182	272	327	363	Aux
Japan	Minegumo	DD	2150 std	C/Small		36	71	107	128	142	
Japan	Mod Sparviero	PTGH	50 std	F/VSmall	-0.25	--	--	--	--	8.7	AAL
Japan	Miura	LST	2000 std	C/Small	-0.25	25	51	76	91	101	Amphib
Japan	Mizudori (423 t)	PC	423 std	D/Small		12	24	36	43	48	
Japan	Mizudori (430 t)	PC	430 std	D/Small		12	25	37	44	49	
Japan	Mizudori (440 t)	PC	440 std	D/Small		12	25	37	44	49	
Japan	Mod Sparviero	PTGH	50 std	F/VSmall		--	--	--	--	12	
Japan	Murasame (i)	DD	1800 std	C/Small		32	63	95	113	126	

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Japan	Murasame (ii)	DD	4400 std	C/Small		57	115	172	206	229	
Japan	Oshio	SS	0 subm	C/Small	-0.50	18	36	53	64	71	Sub
Japan	Oshio (Oshio)	SS	0 subm	C/Small	-0.50	18	35	53	63	70	Sub
Japan	Osumi	LPD	14700 std	B/Medium	-0.25	96	192	288	346	384	Amphib
Japan	Oyashio	SS	0 subm	C/Small	-0.50	25	50	75	90	100	Sub
Japan	Sagami	AOE	5000 std	C/Small	-0.25	47	94	140	168	187	Aux
Japan	SAM-01	MSD	15 std	G/VSmall	--	--	--	--	--	5.2	
Japan	Shirane	DDG	5200 std	C/Small	-0.25	48	96	144	173	192	AAL
Japan	Soryu	SSP	0 subm	C/Small	-0.50	28	56	84	101	112	Sub
Japan	Souya	MCS	2150 std	C/Small		36	71	107	128	142	
Japan	Sugashima	MHC	510 std	D/Small	-0.35	9	18	26	32	35	Wood
Japan	Tachikaze	DDG	3850 std	C/Small		52	105	157	188	209	
Japan	Tachikaze (Sawakaze)	DDG	3950 std	C/Small		53	107	160	192	213	
Japan	Takami	MHC	380 std	D/Small	-0.35	7	15	22	26	29	Wood
Japan	Takanami	DD	4650 std	C/Small		59	119	178	213	237	
Japan	Takashima	MHC	570 std	D/Small	-0.10	13	27	40	48	53	GRP
Japan	Takatsuki	DD	3250 std	C/Small		47	94	140	168	187	
Japan	Towada	AOE	8300 std	B/Medium	-0.25	66	131	197	236	262	Aux
Japan	Tsugaru	MM	950 std	D/Small	-0.35	14	27	41	49	54	Wood
Japan	Type 1	PT	70 std	F/VSmall		--	--	--	--	14	
Japan	Type 7	PT	104 std	E/VSmall		--	--	--	--	19	
Japan	Type 9	PT	64 std	F/VSmall		--	--	--	--	14	
Japan	Type 10	PT	120 std	E/VSmall		--	--	--	--	21	
Japan	Type 11	PT	110 std	E/VSmall		--	--	--	--	20	

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Japan	Umitaka	PC	440 std	D/Small		12	25	37	44	49	
Japan	Uraga	MCS	5600 std	B/Medium		67	135	202	242	269	
Japan	US LCAC	LCUA	0 ltshp	E/VSmall	-0.45	--	--	--	--	10	Amphib, ACV
Japan	US LCM(6)	LCM	0 ltshp	F/VSmall	-0.25	--	--	--	--	6.2	Amphib
Japan	US LCVP	LCVP	13 std	G/VSmall	-0.25	--	--	--	--	3.5	Amphib
Japan	Uwajima	MHC	490 std	D/Small	-0.35	9	17	26	31	34	Wood
Japan	Uzushio	SS	0 subm	C/Small	-0.50	19	39	58	69	77	Sub
Japan	Yaeyama	MHS	1000 std	D/Small	-0.10	19	39	58	69	77	GRP
Japan	Yamagumo	DD	2150 std	C/Small		36	71	107	128	142	
Japan	Yashio	MSC	225 std	E/VSmall	-0.35	--	--	--	--	20	Wood
Japan	YDT 01	MSS	380 std	D/Small		11	23	34	41	45	
Japan	Yubari	FF	1470 std	D/Small		28	55	83	99	110	
Japan	Yura	LCU	500 std	D/Small	-0.25	10	20	30	36	40	Amphib
Japan	Yusotei	LCU	420 std	D/Small	-0.25	9	18	27	32	36	Amphib
Japan	Yuushio	SS	0 subm	C/Small	-0.50	19	39	58	69	77	Sub
Jordan	Ex-US 65 ft ASR	PB	27 std	F/VSmall	-0.25	--	--	--	--	5.7	AAL
Jordan	Hawk	PC	0 ltshp	E/VSmall	-0.10	--	--	--	--	17	GRP
Jordan	US Bertram	PB	8 std	G/VSmall	-0.10	--	--	--	--	3.1	GRP
Kazakhstan	Ex-FRG Klasse 369	BP	59 std	F/VSmall		--	--	--	--	13	
Kazakhstan	Project 1408M [Saygak]	PB	0 fl	G/VSmall	-0.10	--	--	--	--	3.8	Nat
Kazakhstan	Russian Pr. 1258 [Yevgenya]	MSI	95 std	E/VSmall	-0.20	--	--	--	--	14	Nat, GRP
Kazakhstan	Russian Pr. 1400 Grif [Zhuk]	PC	36 std	F/VSmall	-0.35	--	--	--	--	6	Nat, AAL
Kazakhstan	US 27 foot Vigilant	BP	0 ltshp	G/VSmall	-0.10	--	--	--	--	1.3	GRP
Kazakhstan	US Dauntless	PB	11 std	G/VSmall	-0.25	--	--	--	--	3.2	AAL

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Kenya	32 meter	PTG	120 std	E/VSmall	--	--	--	--	--	21	
Kenya	37.5 meter	PTG	130 std	E/VSmall	--	--	--	--	--	22	
Kenya	Province	PTG	0 ltshp	D/Small	11	21	32	38	42		
Kenya	Vosper 31 meter	PB	96 std	E/VSmall	--	--	--	--	--	18	
Kiribati	17 meter	PC	0 fl	G/VSmall	--	--	--	--	--	6	
Kiribati	Austrailan ASI 315	PB	0 fl	E/VSmall	-0.25	--	--	--	--	17	AAL
Korea, North	Chaho	PC	0 fl	F/VSmall	-0.10	--	--	--	--	13	Nat
Korea, North	Chodo	PC	130 std	E/VSmall	-0.10	--	--	--	--	20	Nat
Korea, North	Chong Jin	PC	0 fl	F/VSmall	-0.10	--	--	--	--	13	Nat
Korea, North	Ex-Russian Pr. 205 [Osa I]	PTG	184 std	E/VSmall	-0.10	--	--	--	--	25	Nat
Korea, North	Ex-Russian Pr. 613 [Whiskey]	SS	0 subm	D/Small	-0.50	13	26	39	47	52	Sub
Korea, North	Ex-Russian Pr. 201M [SO-1]	PC	190 std	E/VSmall	--	--	--	--	--	28	
Korea, North	Hanchon	LCM	0 fl	E/VSmall	-0.35	--	--	--	--	14	Nat, Amphib
Korea, North	Hantae	LSM	0 fl	E/VSmall	-0.35	--	--	--	--	25	Nat, Amphib
Korea, North	Ku-Song/Mod Sin Hung	PT	0 fl	F/VSmall	-0.10	--	--	--	--	5.9	Nat
Korea, North	Najin	FF	1200 std	D/Small	-0.10	22	44	65	78	87	Nat
Korea, North	Nampo	LCP	0 fl	F/VSmall	-0.35	--	--	--	--	9.4	Nat, Amphib
Korea, North	PRC Hainan	PC	360 std	D/Small	-0.10	10	20	29	35	39	Nat
Korea, North	PRC Type 021 [Huangfeng]	PTGH	175 std	E/VSmall	--	--	--	--	--	27	
Korea, North	PRC Type 033/ES3B [Romeo]	SS	0 subm	C/Small	-0.50	15	31	46	55	61	Sub
Korea, North	PRC Type 062 [Shanghai II]	PC	113 std	E/VSmall	-0.10	--	--	--	--	18	Nat
Korea, North	Russian Pr. 201M [SO-1]	PC	190 std	E/VSmall	--	--	--	--	--	28	
Korea, North	Sang-O	SSC	0 subm	D/Small	-0.50	6	11	17	20	22	Sub
Korea, North	Sang-O II	SSC	0 subm	D/Small	-0.50	6	11	17	20	22	Nat, Sub

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Korea, North	Sariwon	PC	475 std	D/Small	-0.10	12	24	35	42	47	Nat
Korea, North	Simpo/Sinnam	PC	64 std	F/VSmall	--	--	--	--	--	14	
Korea, North	Soho	FF	1600 std	C/Small	-0.10	26	53	79	95	105	Nat
Korea, North	Sohung	PTG	75 std	F/VSmall	-0.10	--	--	--	--	14	Nat
Korea, North	Soju	PTG	190 std	E/VSmall	-0.10	--	--	--	--	25	Nat
Korea, North	Soman	PC	0 fl	E/VSmall	-0.60	--	--	--	--	10	Civ, Nat
Korea, North	Taechong I & II	PC	395 std	D/Small	-0.10	10	21	31	37	41	Nat
Korea, North	Yeono	SSC	0 subm	E/VSmall	-0.50	3	6	8	10	11	Sub
Korea, North	Yukto I & II	MSC	0 fl	F/VSmall	-0.45	--	--	--	--	6.4	Nat, Wood
Korea, South	Chun Ji	AOR	0 fl	B/Medium	-0.25	62	124	186	223	248	Aux
Korea, South	Dokdo	LPD	14340 std	B/Medium	-0.25	94	189	283	339	377	Amphib
Korea, South	Dong Hae (HDC-800)	FFL	800 std	D/Small		18	37	55	66	73	
Korea, South	Ex-US Allen M Sumner	DD	2200 std	C/Small		36	72	108	130	144	
Korea, South	Ex-US Fletcher	DD	2050 std	C/Small		35	69	104	124	138	
Korea, South	Ex-US Gearing FRAM I (Kyong Ki)	DD	2425 std	C/Small	-0.15	33	66	98	118	131	ALS
Korea, South	Ex-US Gearing FRAM I (Taejon)	DD	2425 std	C/Small	-0.15	33	66	98	118	131	ALS
Korea, South	Ex-US Gearing FRAM II	DD	2400 std	C/Small	-0.15	33	65	98	117	130	ALS
Korea, South	Ex-US Lawrence/Crossley	APD	1650 std	C/Small		30	60	89	107	119	
Korea, South	Ex-US LSM-1	LSM	520 std	D/Small	-0.25	10	21	31	37	41	Amphib
Korea, South	Ex-US LST-1 and LST-542	LST	1653 std	C/Small	-0.25	22	45	67	80	89	Amphib
Korea, South	Ex-US MSC-268/289	MSC	315 std	E/VSmall	-0.35	--	--	--	--	26	Wood
Korea, South	FRG Klasse 209/1200	SS	0 subm	D/Small	-0.50	13	25	38	45	50	Sub
Korea, South	FRG Klasse 214	SSP	0 subm	C/Small	-0.50	16	32	48	58	64	Sub
Korea, South	HDL 4000	LST	4278 std	C/Small	-0.25	42	84	126	151	168	Amphib

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Korea, South	Incheon	FF	2300 std	C/Small		37	74	111	133	148	
Korea, South	King Sejong	DDG	7650 std	B/Medium		83	166	248	298	331	
Korea, South	KSS 500A	SSW	560 std	D/Small	-0.50	7	15	22	26	29	Sub
Korea, South	Okpo	DD	3500 std	C/Small		49	98	147	176	196	.
Korea, South	Paek Ku	PTG	240 std	E/VSmall	-0.25	--	--	--	--	25	AAL
Korea, South	Paek Ku (US-built)	PTG	240 std	E/VSmall	-0.25	--	--	--	--	25	AAL
Korea, South	Pohang	FFL	950 std	D/Small		21	41	62	74	82	
Korea, South	Sea Dolphin	PC	113 std	E/VSmall		--	--	--	--	20	
Korea, South	Sea Hawk/Fox (Schoolboy)	PC	72 std	F/VSmall	-0.10	--	--	--	--	13	GRP
Korea, South	Swallow (SK-5000)	MHC	470 std	D/Small	-0.10	12	23	35	41	46	GRP
Korea, South	Ulsan (HDF-2000)	FF	1600 std	C/Small	-0.15	25	50	74	89	99	ALS
Korea, South	US Asheville	PTG	225 std	E/VSmall	-0.25	--	--	--	--	24	AAL
Korea, South	Wildcat	PTG	120 std	E/VSmall	-0.15	--	--	--	--	18	ALS
Kuwait	FPB 57	PTG	353 std	D/Small		11	22	32	39	43	
Kuwait	French Combattante IV NG	PTG	0 fl	D/Small		12	23	35	41	46	
Kuwait	Loadmaster MkII	LCU	0 ltshp	E/VSmall	-0.25	--	--	--	--	22	Amphib
Kuwait	MkV-C	PB	57 std	F/VSmall	-0.25	--	--	--	--	9.5	AAL
Kuwait	P37 BRL	PTG	225 std	E/VSmall	-0.15	--	--	--	--	27	ALS
Kuwait	TNC-45	PTG	231 std	E/VSmall		--	--	--	--	32	
La Reunion	Ex-French Type V14	WPB	16 std	G/VSmall		--	--	--	--	5.4	
Latvia	Ex-GDR Kondor II	MSC	414 std	D/Small	-0.10	11	22	32	39	43	Nat
Latvia	Ex-Russian Pr. 205 [Osa I]	PTG	184 std	E/VSmall	-0.10	--	--	--	--	25	Nat
Lebanon	Ex-UK Tracker MkII (i)	PB	0 fl	F/VSmall	-0.10	--	--	--	--	7.2	GRP
Lebanon	Ex-UK Tracker MkII (ii)	PB	0 fl	F/VSmall	-0.10	--	--	--	--	7.2	GRP

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Lebanon	Ex-UK Tracker MkII (iii)	WPB	0 fl	F/VSmall	-0.10	--	--	--	--	6.8	GRP
Lebanon	French EDIC III	LCU	375 std	D/Small	-0.25	8	17	25	30	33	Aux
Lebanon	Tarablous	PB	0 fl	E/VSmall		--	--	--	--	17	
Liberia	CG 27	PC	50 std	F/VSmall	-0.25	--	--	--	--	8.7	AAL
Liberia	US 65 foot	PC	0 fl	F/VSmall		--	--	--	--	8.6	
Libya	El Temsah	AK	0 fl	C/Small		60	121	181	217	241	
Libya	Ex-Turkish C107	LCU	280 std	E/VSmall	-0.25	--	--	--	--	27	Amphib
Libya	French La Combattante IIG	PTG	258 std	E/VSmall		--	--	--	--	35	
Libya	Ghat	AK	0 fl	C/Small		42	83	125	149	166	
Libya	Ibn Ouf	LST	2200 std	C/Small	-0.25	27	54	81	97	108	Amphib
Libya	Mala	SDV	0 subm	G/VSmall	-0.50	--	--	--	--	0.7	Sub
Libya	Russian Pr. 205U [Osa II]	PTG	215 std	E/VSmall	-0.10	--	--	--	--	28	Nat
Libya	Russian Pr. 266M [Natya I]	MSF	750 std	D/Small	-0.25	13	27	40	48	53	Nat, ALS
Libya	Russian Pr. 641 [Foxtrot]	SS	0 subm	C/Small	-0.50	20	39	59	70	78	Sub
Libya	Russian Pr. 773KL [Polnocny C]	LSM	980 std	D/Small	-0.35	14	28	41	50	55	Nat, Amphib
Libya	Russian Pr. 1159T [Koni III]	FF	1515 std	C/Small	-0.10	25	51	76	91	101	Nat
Libya	Russian Pr. 1234E [Nanuchka II]	PGG	560 std	D/Small	-0.10	13	26	39	47	52	Nat
Libya	Suicide Boats'	Exploding!	0 fl	G/VSmall	-0.10	--	--	--	--	2.4	GRP
Libya	Susa	PTG	95 std	E/VSmall	-0.35	--	--	--	--	12	Wood
Libya	UK Ham	MSI	123 std	E/VSmall	-0.35	--	--	--	--	14	Wood
Libya	Vosper Mk7	FF	1325 std	D/Small		26	52	77	93	103	
Libya	Wadi M'ragh	FFL	547 std	D/Small		14	29	43	51	57	
Lithuania	Ex-Norwegian Storm	PTG	105 std	E/VSmall		--	--	--	--	19	
Lithuania	Ex-Russian Pr. 1124M [Grsiha III]	FFL	945 std	D/Small		21	41	62	74	82	

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Macao	Macao	WPB	0 fl	G/VSmall	--	--	--	--	--	5	
Madagascar	French EDIC	LCU	250 std	E/VSmall	-0.25	--	--	--	--	25	Amphib
Madagascar	French PR 48	PC	0 ltshp	E/VSmall		--	--	--	--	37	
Madagascar	North Korean Nampo	PC	0 ltshp	F/VSmall	-0.10	--	--	--	--	14	Nat
Madagascar	Toyky	LCU	810 std	D/Small	-0.25	14	28	42	50	56	Amphib
Malawi	Namicurra	WPB	4 std	G/VSmall	-0.10	--	--	--	--	1.9	GRP
Malaysia	Combattante II 4 AL	PTG	234 std	E/VSmall	-0.15	--	--	--	--	27	ALS
Malaysia	Ex-Italy AI Walid	FFL	600 std	D/Small		15	31	46	55	61	
Malaysia	Ex-Nethl. Zwaardvis	SS	0 subm	C/Small	-0.50	20	41	61	73	81	Sub
Malaysia	Ex-US Newport	LST	0 ltshp	B/Medium	-0.25	51	101	152	182	202	Amphib
Malaysia	FS 1500	FF	1690 std	C/Small		30	61	91	109	121	
Malaysia	Italy Lerici	MSC	578 std	D/Small	-0.10	13	27	40	48	53	GRP
Malaysia	Jerong	PC	210 std	E/VSmall		--	--	--	--	30	
Malaysia	Lekiu	FF	1845 std	C/Small		32	64	96	115	128	
Malaysia	Musytari	PG	1000 std	D/Small		21	43	64	77	85	
Malaysia	Sri Indera Sakti	MCS/AGP	0 ltshp	C/Small	-0.25	28	55	83	99	110	Amphib
Malaysia	Swedish Spica-M	PTG	240 std	E/VSmall		--	--	--	--	33	
Malaysia	Type 41/61	FFT	1575 std	C/Small		29	58	86	104	115	
Malaysia	Vosper 103 foot	PC	96 std	E/VSmall		--	--	--	--	18	
Malaysia	Yarrow	FF	1290 std	D/Small		25	51	76	91	101	
Malta	Ex-German GB 23	PC	38 std	F/VSmall		--	--	--	--	9.6	
Malta	Ex-German Kondor I	MSI	339 std	E/VSmall		--	--	--	--	41	
Malta	Ex-US Swift MkII	PB	0 fl	G/VSmall		--	--	--	--	6	
Malta	Ex-Yugoslav Type 131	BP	0 ltshp	E/VSmall		--	--	--	--	18	

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Marshall Islands	Austrailian ASI 315	PB	148 std	E/VSmall	-0.35	--	--	--	--	15	Wood
Mauritania	French PATRA	PC	115 std	E/VSmall	--	--	--	--	--	20	
Mauritania	Spanish Barcelo	PB	0 fl	E/VSmall	--	--	--	--	--	20	
Mauritius	Vigilant	WPS	1350 std	D/Small		26	52	78	94	104	
Mexico	Ex-US Bronstein	FF	2360 std	C/Small	-0.15	32	64	96	115	128	ALS
Mexico	Ex-US Fletcher	DD	2050 std	C/Small		35	69	104	124	138	
Mexico	Ex-US Gearing FRAM I	DD	0 ltshp	C/Small	-0.15	36	72	107	129	143	ALS
Mexico	Ex-US Knox	FF	3130 std	C/Small	-0.15	39	78	116	140	155	ALS
Micronesia	Austrailian ASI 315	WPC	148 std	E/VSmall	-0.15	--	--	--	--	20	ALS
Micronesia	Ex-US CG Cape	WPC	87 std	E/VSmall		--	--	--	--	17	
Montserrat	Emerald Star	WPC	15 std	G/VSmall	-0.10	--	--	--	--	4.7	GRP
Montserrat	M 160	WPB	17 std	G/VSmall	-0.10	--	--	--	--	5.1	GRP
Morocco	Ad Dakhla	AK	0 ltshp	D/Small	-0.50	12	25	37	44	49	Civ
Morocco	Descubierta	FF	1363 std	D/Small		26	53	79	95	105	
Morocco	El Aigh	AK	0 ltshp	C/Small	-0.50	18	37	55	66	73	Civ
Morocco	Ex-US Newport	LST	0 ltshp	B/Medium	-0.25	51	101	152	182	202	Amphib
Morocco	France Champlain	LSM	750 std	D/Small	-0.25	13	27	40	48	53	Amphib
Morocco	France Floreal	PS	2600 std	C/Small	-0.15	34	69	103	123	137	MStd90,
Morocco	France P32	PB	0 fl	F/VSmall	-0.35	--	--	--	--	10	Wood
Morocco	France PR 72	PC	370 std	D/Small		11	22	33	40	44	
Morocco	OPV 64	PG	580 std	D/Small		15	30	44	53	59	
Morocco	Osprey 55	PG	420 std	D/Small		12	24	36	43	48	
Morocco	SIGMA (2075 t)	FF	2075 std	C/Small		35	70	104	125	139	
Morocco	SIGMA (2335 t)	FF	2335 std	C/Small		38	75	113	135	150	

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Morocco	Spanish Lazaga	PTG	303 std	E/VSmall	--	--	--	--	--	38	
Morocco	Vigilance	PC	307 std	E/VSmall	--	--	--	--	--	39	
Mozambique	Russian Pr. 1258 [Yevgenya]	MSI	95 std	E/VSmall	-0.20	--	--	--	--	14	Nat, GRP
Mozambique	Russian Pr. 1400 Grif [Zhuk]	PC	36 std	F/VSmall	-0.35	--	--	--	--	6	Nat, AAL
Mozambique	Russian Pr. 201M [SO-I]	PB	190 std	E/VSmall	-0.10	--	--	--	--	25	Nat
Nambia	Danish Osprey	WPG	320 std	E/VSmall	-0.15	--	--	--	--	34	MStd90,
Nethl.	Amsterdam	AOR	7200 std	B/Medium	-0.25	60	119	179	214	238	Aux
Nethl.	Balder	PB	150 std	E/VSmall	--	--	--	--	--	24	
Nethl.	De Ruyter	CL	9529 std	B/Medium	-0.15	82	163	245	293	326	ALS
Nethl.	De Zeven Provinciën (i)	CLG	9529 std	B/Medium		96	192	287	345	383	
Nethl.	De Zeven Provinciën (ii)	FFG	5200 std	C/Small		64	128	192	230	256	
Nethl.	Dokkum	MSI	373 std	D/Small	-0.35	7	15	22	26	29	Wood
Nethl.	Dolfijn/Potvis	SS	0 subm	C/Small		32	64	95	114	127	
Nethl.	Ex-GB Colossus	CVL	15892 std	B/Medium	-0.25	101	202	303	364	404	MStd
Nethl.	Friesland	DD	2406 std	C/Small		38	77	115	138	153	
Nethl.	Holland (i)	DD	2215 std	C/Small		36	73	109	131	145	
Nethl.	Holland (ii)	PB	0 fl	C/Small	-0.15	40	79	119	142	158	MStd90
Nethl.	Jacob van Heemskerck	FFG	3000 std	C/Small		44	89	133	159	177	
Nethl.	Johan de Witt	LPD	0 fl	B/Medium	-0.25	94	188	281	338	375	Amphib
Nethl.	Karel Doorman (ii)	FF	0 ltshp	C/Small		46	92	138	166	184	
Nethl.	Kortenaar	FF	3000 std	C/Small		44	89	133	159	177	
Nethl.	LCA Mk1	LCVP	8 std	G/VSmall	-0.35	--	--	--	--	2.2	Amphib, GRP
Nethl.	LCA Mk2	LCVP	8 std	G/VSmall	-0.35	--	--	--	--	2.2	Amphib, GRP
Nethl.	LCA Mk3	LCVP	23 std	F/VSmall	-0.35	--	--	--	--	4.5	Amphib, GRP

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Nethl.	LCU-1	LCU	0 fl	E/VSmall	-0.25	--	--	--	--	20	Amphib
Nethl.	Poolster	AOR	7700 std	B/Medium	-0.25	62	125	187	224	249	Aux
Nethl.	Rotterdam	LPD	10800 std	B/Medium	-0.40	63	125	188	225	250	MStd90, Amphib
Nethl.	Tripartite	MH	510 std	D/Small	-0.10	12	25	37	44	49	GRP
Nethl.	Tromp	DDG	3665 std	C/Small	-0.15	43	86	129	155	172	ALS
Nethl.	Van Speijk	FF	2200 std	C/Small		36	72	108	130	144	
Nethl.	Van Speijk (1978)	FF	2155 std	C/Small		36	71	107	128	142	
Nethl.	Walrus	SS	0 subm	C/Small		42	85	127	152	169	
Nethl.	Wildervank	MSI	373 std	D/Small	-0.35	7	15	22	26	29	Wood
Nethl.	Zuiderkruis	AO	7750 std	B/Medium	-0.25	63	125	188	225	250	Aux
Nethl.	Zwaardvis	SS	0 subm	C/Small		41	82	122	147	163	
N. Zeal.	Anzac	FF	3300 std	C/Small		47	95	142	170	189	
N. Zeal.	Canterbury	AX	8870 std	B/Medium	-0.40	55	110	164	197	219	MStd90, Aux
N. Zeal.	Charles Upham	AP	0 grt	B/Medium	-0.50	35	70	105	126	140	Civ
N. Zeal.	Endeavour	AOR	0 grt	C/Small	-0.25	48	97	145	174	193	Aux
N. Zeal.	Ex-Australian Bathurst	MSF	790 std	D/Small		18	37	55	66	73	
N. Zeal.	Ex-UK Bellona	CLAA	5950 std	B/Medium		70	140	210	252	280	
N. Zeal.	Ex-UK Leander (Ikara)	FF	2450 std	C/Small		39	78	116	140	155	
N. Zeal.	Ex-UK Loch class	FF	1435 std	D/Small	-0.25	20	41	61	73	81	MStd
N. Zeal.	Ex-UK Whitby (Type 12)	FF	2150 std	C/Small		36	71	107	128	142	
N. Zeal.	Ex-US Robert D. Conrad	AGOR	1219 std	D/Small	-0.25	18	37	55	66	73	MStd
N. Zeal.	Ex-US Stalwart	AGS	0 fl	C/Small	-0.25	25	50	75	90	100	MStd
N. Zeal.	Moa	PC	92 std	E/VSmall		--	--	--	--	17	
N. Zeal.	Monowai	AGOR	0 fl	C/Small	-0.25	36	73	109	131	145	Aux

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
N. Zeal.	Otago	PS	1740 std	C/Small	-0.15	26	53	79	95	105	MStd90
N. Zeal.	Protector	PC	0 fl	E/VSmall	-0.15	--	--	--	--	32	MStd90
N. Zeal.	UK Leander	FF	2350 std	C/Small		38	76	113	136	151	
N. Zeal.	UK Leander (Broad-Beamed)	FF	2474 std	C/Small		39	78	117	140	156	
N. Zeal.	UK Pukaki	PC	105 std	E/VSmall		--	--	--	--	19	
N. Zeal.	UK Rothesay	FF	2150 std	C/Small		36	71	107	128	142	
Nicaragua	Ex-Israeli Dabur	PG	25 std	F/VSmall	-0.25	--	--	--	--	5.5	AAL
Nicaragua	North Korean Sin Hung	PC	25 std	F/VSmall	-0.10	--	--	--	--	6.5	Nat
Nicaragua	Polish K-8	MSB	19 std	G/VSmall	-0.35	--	--	--	--	3.9	Wood
Nicaragua	Russian Pr. 1258 [Yevgenya]	MSI	95 std	E/VSmall	-0.20	--	--	--	--	14	Nat, GRP
Nicaragua	Russian Pr. 1400 Grif [Zhuk]	PC	36 std	F/VSmall	-0.35	--	--	--	--	6	Nat, AAL
Nigeria	Argungu	PC	0 fl	F/VSmall		--	--	--	--	15	
Nigeria	Dorina	FFL	500 std	D/Small		14	27	41	49	54	
Nigeria	Ekpe	PTG	295 std	E/VSmall		--	--	--	--	38	
Nigeria	Erin'mi	FFL	700 std	D/Small		17	34	50	60	67	
Nigeria	Ex-UK Ford	PC	120 std	E/VSmall	-0.50	--	--	--	--	10	Sub
Nigeria	FRG RO-RO 1300	LST	1470 std	D/Small	-0.25	21	42	62	75	83	Amphib
Nigeria	Makurdi	PC	115 std	E/VSmall		--	--	--	--	20	
Nigeria	MEKO 360H	FF	3680 std	C/Small		51	102	152	183	203	
Nigeria	Nigeria	FF	1724 std	C/Small		31	62	92	111	123	
Nigeria	Obuma	FFT	1724 std	C/Small		31	62	92	111	123	
Nigeria	Siri	PGG	385 std	D/Small		11	23	34	41	45	
Norway	Alta	MSC	343 std	E/VSmall	-0.20	--	--	--	--	33	ACV
Norway	Borgen	ML	0 fl	E/VSmall	-0.25	--	--	--	--	25	ML

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Norway	CB-90N	LCP	14 std	G/VSmall	-0.25	--	--	--	--	3.7	Amphib
Norway	FRG Klasse 207	SS	0 subm	D/Small	-0.50	7	14	21	25	28	Sub
Norway	FRG Klasse 210	SS	0 subm	D/Small	-0.50	12	24	35	42	47	Sub
Norway	Fridtjof Nansen	FFG	4681 std	C/Small		60	120	179	215	239	
Norway	Hauk	PTG	130 std	E/VSmall		--	--	--	--	22	
Norway	Horten	AS	0 fl	C/Small	-0.25	27	53	80	95	106	Aux
Norway	Kvalsund	LCU	0 fl	D/Small	-0.25	10	20	30	36	40	Amphib
Norway	Marjata	AGI	0 fl	C/Small		28	57	85	102	113	
Norway	Marjata (II)	AGI	5300 std	C/Small		65	130	194	233	259	
Norway	Oksoy	MHC	343 std	E/VSmall	-0.20	--	--	--	--	33	ACV
Norway	Oslo	FF	1450 std	D/Small		27	55	82	98	109	
Norway	Oslo (1991) (1450 t)	FF	1450 std	D/Small		27	55	82	98	109	
Norway	Oslo (1991) (1650 t)	FF	1650 std	C/Small		30	60	89	107	119	
Norway	Reinoysund (590 t)	LCU	0 fl	D/Small	-0.25	10	20	30	36	40	Amphib
Norway	Reinoysund (850 t)	LCU	0 fl	D/Small	-0.25	13	26	38	46	51	Amphib
Norway	Skjold	PTG	0 fl	E/VSmall	-0.30	--	--	--	--	22	ACV, GRP
Norway	Sleipner	FFL	600 std	D/Small		15	31	46	55	61	
Norway	Snögg	PTG	115 std	E/VSmall		--	--	--	--	20	
Norway	Storm	PTG	110 std	E/VSmall		--	--	--	--	20	
Norway	Tjeld	PT	70 std	F/VSmall	-0.35	--	--	--	--	9.4	Wood
Norway	Type 320 Nordkapp	WPS	2165 std	C/Small		36	72	107	129	143	
Norway	Tyr	MM	0 fl	D/Small	-0.50	6	12	18	22	24	Civ
Norway	US Falcon	MS	300 std	E/VSmall		--	--	--	--	38	
Norway	Vidar	MM	1500 std	D/Small	-0.25	21	42	63	76	84	ML

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Oman	Al Bushra (125 t)	PB	125 std	E/VSmall	--	--	--	--	--	21	
Oman	Al Bushra (140 t)	PB	140 std	E/VSmall	--	--	--	--	--	23	
Oman	Al Mabrukah	PS	785 std	D/Small	-0.50	9	18	27	32	36	Civ
Oman	Al Munassir	LST	0 fl	C/Small	-0.25	24	48	72	86	96	Amphib
Oman	Al Neemran	LSM	0 fl	E/VSmall	-0.25	--	--	--	--	15	Amphib
Oman	Al Seeb	PB	60 std	F/VSmall	-0.10	--	--	--	--	12	GRP
Oman	Al Sultana	AK	0 fl	D/Small	-0.50	14	27	41	49	54	Civ
Oman	Haras 1	PB	0 fl	F/VSmall	-0.10	--	--	--	--	8.7	GRP
Oman	Khareef	FFL	2500 std	C/Small		39	79	118	141	157	
Oman	Nasr al Bahr	LST	2500 std	C/Small	-0.25	30	59	89	106	118	Amphib
Oman	Project Mawj	PC	373 std	D/Small		11	22	33	40	44	
Oman	Project Muheet	FFL	1185 std	D/Small	-0.15	20	41	61	73	81	ALS
Oman	Province	PTG	0 ltshp	D/Small		11	21	32	38	42	
Oman	Saba al Bahr	LCU	0 fl	E/VSmall	-0.25	--	--	--	--	22	Amphib
Pakistan	Ex-Dutch Poolster	AOR	0 fl	B/Medium	-0.25	94	189	283	339	377	Aux
Pakistan	Ex-French Tripartite	MHC	511 std	D/Small	-0.10	12	25	37	44	49	GRP
Pakistan	Ex-PRC Type 021 [Huangfeng]	PTG	175 std	E/VSmall	-0.10	--	--	--	--	24	Nat
Pakistan	Ex-UK Amazon (Type 21)	FF	3100 std	C/Small	-0.15	39	77	116	139	154	ALS
Pakistan	Ex-UK Leander/3 (Broad-Beamed)	FF	2500 std	C/Small		39	79	118	141	157	
Pakistan	French Agosta	SS	0 subm	C/Small	-0.50	16	31	47	56	62	Sub
Pakistan	French Agosta 90B	SS	0 subm	C/Small	-0.50	16	31	47	56	62	Sub
Pakistan	French Daphne	SS	0 subm	D/Small	-0.50	11	22	33	40	44	Sub
Pakistan	Jalalat	PTG	150 std	E/VSmall		--	--	--	--	24	
Pakistan	Larkana	PC	150 std	E/VSmall		--	--	--	--	24	

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Pakistan	MG-110	SSM	0 subm	E/VSmall	-0.50	3	6	8	10	11	Sub
Pakistan	PRC Fuqing	AOR	7500 std	B/Medium	-0.35	53	106	159	191	212	Nat, Aux
Pakistan	PRC Modified Jiangwei II	FF	0 fl	C/Small	-0.10	37	74	111	133	148	Nat
Pakistan	PRC Type 62 [Shanghai II]	PC	113 std	E/VSmall	-0.10	--	--	--	--	18	Nat
Pakistan	SX-404	SSM	0 subm	F/VSmall	-0.50	1.8	3.6	5.4	6.5	7.2	Sub
Palau	Australian ASI 315	PB	148 std	E/VSmall	-0.25	--	--	--	--	18	AAL
Panama	Ex-US Sea Spectre PB MkIV	WPB	42 std	F/VSmall	-0.25	--	--	--	--	7.7	AAL
Panama	UK Vosper 103 foot	WPC	96 std	E/VSmall	--	--	--	--	--	18	
Panama	US Swiftships 65 foot	WPB	31 std	F/VSmall	-0.25	--	--	--	--	6.3	AAL
Papua New Guinea	Australian ASI 315	PB	0 fl	E/VSmall	-0.25	--	--	--	--	17	AAL
Papua New Guinea	Ex-Australian Attack	PC	100 std	E/VSmall	-0.15	--	--	--	--	16	ALS
Papua New Guinea	Ex-Australian Balikpapan	LCH	0 ltshp	D/Small	-0.25	8	16	24	29	32	Amphib
Paraguay	PT. 101	PC	0 fl	G/VSmall	--	--	--	--	--	4.6	
Philippines	Ex-South Korean Sea Dolphin	PC	113 std	E/VSmall	--	--	--	--	--	20	
Philippines	Ex-South Korean Pohang	FFL	950 std	D/Small		21	41	62	74	82	
Philippines	Ex-UK Peacock	PG	664 std	D/Small		16	33	49	59	65	
Philippines	Ex-US Admirable	PG	650 std	D/Small		16	32	48	58	64	
Philippines	Ex-US Auk	PG	1090 std	D/Small		23	45	68	81	90	
Philippines	Ex-US Cannon	FF	1390 std	D/Small		27	53	80	95	106	
Philippines	Ex-US LST-1 and LST-542	LST	1620 std	C/Small	-0.25	22	44	66	79	88	Amphib
Philippines	Ex-US PCE-827/848	PG	640 std	D/Small		16	32	47	57	63	
Philippines	Ex-US Savage	FF	1590 std	C/Small		29	58	87	104	116	
Philippines	Ex-USCG Hamilton	FF	2716 std	C/Small	-0.25	31	62	93	112	124	AAL

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Philippines	Sea Hawk/Fox (Schoolboy)	PC	72 std	F/VSmall	--	--	--	--	--	15	
Philippines	UP PGM-71	PC	135 std	E/VSmall	--	--	--	--	--	22	
Philippines	US 78 foot	PB	0 fl	F/VSmall	--	--	--	--	--	11	
Philippines	US PGM-39	PC	122 std	E/VSmall	--	--	--	--	--	21	
Philippines	US Swift MkIII	PB	0 fl	G/VSmall	--	--	--	--	--	6	
Poland	Bereza	AGF	2049 std	C/Small	-0.35	22	45	67	80	89	Nat, Aux
Poland	Ex-DDR Project 660 Orkan [Sassnitz]	PC	322 std	E/VSmall	-0.25	--	--	--	--	30	Nat, ALS
Poland	Ex-Norwegian Kobben	SS	0 subm	D/Small	-0.50	7	14	21	25	28	Sub
Poland	Ex-Russian Pr. 30bis [Skory]	DD	2355 std	C/Small		38	76	113	136	151	
Poland	Ex-Russian Pr. 56E [SAM Kotlin]	DDG	2600 std	C/Small	-0.25	30	61	91	109	121	Nat, ALS
Poland	Ex-Russian Pr. 61MP [Mod Kashin]	DDG	4452 std	C/Small	-0.10	52	104	156	187	208	Nat
Poland	Ex-Russian Pr. 641K [Foxtrot]	SS	0 subm	C/Small	-0.50	20	39	59	70	78	Sub
Poland	Ex-Russian Pr. 122bis [Kronstadt]	PC	210 std	E/VSmall	-0.15	--	--	--	--	26	ALS
Poland	Ex-Russian XV [M-class]	SSC	0	/	-0.50						Sub
Poland	Ex-US O.H. Perry	FFG	0 ltshp	C/Small	-0.15	43	86	128	154	171	ALS
Poland	Gdansk	WPB	180 std	E/VSmall	--	--	--	--	--	27	
Poland	Project 206F [Krogulec]	MSF	424 std	D/Small		12	24	36	43	48	
Poland	Project 207 [Notec]	MHC	213 std	E/VSmall	-0.10	--	--	--	--	27	GRP
Poland	Project 257 [Kormoran]	MHS	500 std	D/Small		14	27	41	49	54	
Poland	Project 570 [Piast]	ARS	1672 std	C/Small	-0.25	23	45	68	81	90	Aux
Poland	Project 620 [Kaszub]	FFL	1051 std	D/Small	-0.10	20	40	59	71	79	Nat
Poland	Project 621 [Gawron II]	FF	1690 std	C/Small		30	61	91	109	121	
Poland	Project 664 [Wisla]	PTG	94 std	E/VSmall	-0.35	--	--	--	--	11	Nat, AAL
Poland	Project 716 [Deba]	LCU	164 std	E/VSmall	-0.35	--	--	--	--	17	Nat, Amphib

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Poland	Project 719 Eichstaden	LCP	0 fl	F/VSmall	-0.25	--	--	--	--	4.9	Amphib
Poland	Project 719 Marabut	LCM	0 fl	F/VSmall	-0.35	--	--	--	--	7.6	Amphib, GRP
Poland	Project 767 [Lublin]	LSM	1350 std	D/Small	-0.25	20	39	59	70	78	Amphib
Poland	Project 863 [Mod Moma]	AGI	1467 std	D/Small		28	55	83	99	110	
Poland	Project 888 [Wodnik]	ATS	1697 std	C/Small	-0.25	23	46	68	82	91	Aux
Poland	Project 912M [Mod Obluze]	PC	210 std	E/VSmall	-0.25	--	--	--	--	23	Nat, ALS
Poland	Project 912M [Obluze]	WPC	210 std	E/VSmall	-0.15	--	--	--	--	26	ALS
Poland	Project 918 [Pilica]	WPB	89 std	E/VSmall		--	--	--	--	17	
Poland	Project 918M [Pilica]	PC	89 std	E/VSmall	-0.25	--	--	--	--	13	Nat, ALS
Poland	Project B-199 [Moskit]	AO	0 ltshp	D/Small	-0.25	14	28	41	50	55	Aux
Poland	Project B410S-IVS [Leniwka]	MSI	245 std	E/VSmall		--	--	--	--	33	
Poland	Project ZW-2 [Moskit]	AO	0 ltshp	D/Small	-0.35	12	24	35	42	47	Nat, Aux
Poland	Radzionkow	Merch	0 grt	C/Small	-0.50	20	41	61	73	81	Civ
Poland	Russian Pr. 183 [P-6]	PT	61 std	F/VSmall		--	--	--	--	13	
Poland	Russian Pr. 205 [Osa I]	PTG	184 std	E/VSmall	-0.10	--	--	--	--	25	Nat
Poland	Russian Pr. 254K/M [T-43]	MSF	520 std	D/Small	-0.10	13	25	38	45	50	Nat
Poland	Russian Pr. 613 [Whiskey V]	SS	0 subm	D/Small	-0.50	13	26	39	47	52	Sub
Poland	Russian Pr. 770D [Polnocny A]	LSM	704 std	D/Small	-0.35	11	22	33	40	44	Nat, Amphib
Poland	Russian Pr. 771 [Polnocny B]	LSM	836 std	D/Small	-0.35	12	25	37	44	49	Nat, Amphib
Poland	Russian Pr. 776 [Polnocny C]	AGF	1026 std	D/Small	-0.35	14	28	42	50	56	Nat, Amphib
Poland	Russian Pr. 877E [Kilo]	SS	0 subm	C/Small	-0.50	23	45	68	81	90	Sub
Poland	Russian Pr. 1241RE [Tarantul I]	PTG	0 ltshp	D/Small	-0.25	9	19	28	33	37	Nat, ALS
Poland	SKS-40	WPC	0 fl	D/Small		12	24	35	42	47	
Poland	Wisloka	WPB	0 fl	F/VSmall		--	--	--	--	9.7	

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Poland	ZP-1200	AO	1994 std	C/Small	-0.25	25	51	76	91	101	Aux
Portugal	Baptista de Andrade	FFL	1252 std	D/Small		25	50	74	89	99	
Portugal	Cacine	PC	292 std	E/VSmall		--	--	--	--	37	
Portugal	Ex-GB S class (Group 3/1942-3)	SS	0 subm	D/Small		21	43	64	77	85	
Portugal	Ex-Nethl. Karel Doorman	FF	0 ltshp	C/Small		46	92	138	166	184	
Portugal	Ex-UK Bay class	DE	1580 std	C/Small		29	58	87	104	116	
Portugal	Ex-UK River class (late Canadian-built)	DE	1460 std	D/Small		28	55	83	99	110	
Portugal	Ex-UK Rover	AO	0 ltshp	C/Small	-0.25	49	98	147	176	196	Aux
Portugal	Ex-US Adjutant	MSC	350 std	E/VSmall	-0.35	--	--	--	--	27	Wood
Portugal	Ex-US Agile	MSF	755 std	D/Small	-0.35	12	23	35	41	46	Wood
Portugal	Ex-US John C. Butler	DE	1430 std	D/Small		27	54	81	97	108	
Portugal	French Commandant Riviere	FF	1760 std	C/Small		31	62	93	112	124	
Portugal	French Daphne	SS	0 subm	D/Small	-0.50	11	22	33	40	44	Sub
Portugal	FRG Klasse 209PN	SSP	0 subm	C/Small	-0.50	16	32	48	58	64	Sub
Portugal	Joao Coutinho	FFL	1252 std	D/Small		25	50	74	89	99	
Portugal	LCT Type	LCU	285 std	E/VSmall	-0.25	--	--	--	--	28	Amphib
Portugal	LDM series (50 t)	LCM	0 fl	F/VSmall	-0.25	--	--	--	--	7.8	Amphib
Portugal	LDM series (56 t)	LCM	0 fl	F/VSmall	-0.25	--	--	--	--	8.4	Amphib
Portugal	Pero Escobar	FF	1250 std	D/Small		25	50	74	89	99	
Portugal	Sao Gabriel	AO	9000 std	B/Medium	-0.25	69	139	208	249	277	Aux
Portugal	Sao Miguel	AK	7150 std	B/Medium	-0.50	40	79	119	142	158	Civ
Portugal	UK Ton	MSC	360 std	D/Small	-0.35	7	14	21	25	28	Wood
Portugal	US Dealy	FF	1450 std	D/Small	-0.15	23	47	70	84	93	ALS
Portugal	Vasco Da Gama	FF	2920 std	C/Small		44	87	131	157	174	

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Portugal	Viana do Castelo	PS	1300 std	D/Small		25	51	76	91	101	
PRC	Bazan Carrier	CVH	20000 std	A/Large		157	314	471	565	628	
PRC	Dongdiao	AGM/AGI	4600 std	C/Small	-0.25	44	89	133	159	177	Aux
PRC	Ex-French Clemenceau	CV	27307 std	A/Large		193	387	580	696	773	
PRC	Ex-Russian Pr. 7 [Gordy]	DD	1657 std	C/Small	-0.10	27	54	80	96	107	Nat
PRC	Ex-Russian Pr. 1143.5 Orel	CV	55000 std	A/Large	-0.10	278	555	833	999	1110	Nat
PRC	Ex-Russian Pr. 50 [Riga]	FF	1186 std	D/Small	-0.10	22	43	65	77	86	Nat
PRC	Fulin	AO	2200 std	C/Small	-0.50	18	36	54	65	72	Civ
PRC	Fuqing	AO	7500 std	B/Medium	-0.25	61	123	184	221	245	Aux
PRC	Hola	PTG	240 std	E/VSmall		--	--	--	--	33	
PRC	Hongqi	AK	0 fl	C/Small	-0.50	15	30	45	54	60	Civ
PRC	Qiongsha	AP	1615 std	C/Small	-0.50	15	30	44	53	59	Civ
PRC	Rescue Ship	ARS	550 std	D/Small	-0.50	7	15	22	26	29	MHull, AAlum
PRC	Russian Pr. 50 [Riga]	FF	1186 std	D/Small	-0.10	22	43	65	77	86	Nat
PRC	Russian Pr. 613 [Whiskey]	SS	0 subm	D/Small	-0.50	13	26	39	47	52	Sub
PRC	Russian Pr. 629 [Golf II]	SSB	0 subm	C/Small	-0.50	21	42	62	75	83	Sub
PRC	Russian Pr. 636 [Kilo]	SS	0 subm	C/Small	-0.50	23	46	68	82	91	Sub
PRC	Russian Pr. 877EKM [Kilo]	SS	0 subm	C/Small	-0.50	22	44	65	78	87	Sub
PRC	Russian Pr. 956EM	DDG	6500 std	B/Medium	-0.25	56	112	167	201	223	Nat, ALS
PRC	Russian Pr. 965E Sarych	DDG	6500 std	B/Medium	-0.25	56	112	167	201	223	Nat, ALS
PRC	Russian Pr. 1230 Zubr [Pomornik]	LCAC	415 std	D/Small	-0.45	7	13	20	23	26	ACV
PRC	Shengli	AO	3300 std	C/Small	-0.50	24	47	71	85	94	Civ
PRC	Shichang	AXT	0 fl	B/Medium	-0.25	64	129	193	231	257	Aux
PRC	Type 010 [T-43]	MSF	500 std	D/Small	-0.10	12	24	36	43	48	Nat

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
PRC	Type EM1B Homa/Hema	PTG	64 std	F/VSmall	--	--	--	--	--	14	
PRC	Type 021 [Osa/Huangfeng]	PTG	175 std	E/VSmall	--	--	--	--	--	27	
PRC	Type 022 [Houbei]	PTG	220 std	E/VSmall	-0.50	--	--	--	--	16	MHull, AAL
PRC	Type 024/EM1A [Houku]	PTG	68 std	F/VSmall	--	--	--	--	--	14	
PRC	Type 025/026 [Huchuan]	PTH	39 std	F/VSmall	--	--	--	--	--	9.8	
PRC	Type 032 [Qing]	SSB	0 subm	B/Medium	-0.50	38	75	113	135	150	Sub
PRC	Type 033/ES3B [Romeo]	SS	0 subm	C/Small	-0.50	15	31	46	55	61	Sub
PRC	Type 033G [Wuhan]	SSG	0 subm	C/Small	-0.50	18	35	53	63	70	Sub
PRC	Type 035/ES5E [Ming]	SS	0 subm	C/Small	-0.50	16	33	49	59	65	Sub
PRC	Type 037 [Hainan]	PC	395 std	D/Small		12	23	35	41	46	
PRC	Type 037/1 [Haiju]	PC	0 fl	D/Small		11	23	34	41	45	
PRC	Type 037/1G [Houxin]	PTG	0 fl	D/Small		11	22	33	40	44	
PRC	Type 037/2 [Houjian]	PTG	0 fl	D/Small		12	25	37	44	49	
PRC	Type 037IS [Haiqing]	PC	0 fl	D/Small		12	24	35	42	47	
PRC	Type 039 [Song]	SS	0 subm	C/Small	-0.50	18	37	55	66	73	Sub
PRC	Type 039A [Yuan]	SS	0 subm	C/Small	-0.50	27	54	80	96	107	Sub
PRC	Type 051 [Luda I]	DD	3670 std	C/Small	-0.10	46	92	137	165	183	Nat
PRC	Type 051B [Luhai]	DD	0 fl	B/Medium		67	135	202	242	269	
PRC	Type 051C [Luzhou]	DD	0 fl	B/Medium		67	135	202	242	269	
PRC	Type 051DT Kaifeng [Luda IV]	DD	3670 std	C/Small	-0.10	46	92	137	165	183	Nat
PRC	Type 051G Zuhai [Luda III]	DD	3670 std	C/Small	-0.10	46	92	137	165	183	Nat
PRC	Type 051M [Luda V]	DD	3670 std	C/Small		51	102	152	183	203	
PRC	Type 052 Harbin [Luhu]	DD	4800 std	C/Small		61	122	182	219	243	
PRC	Type 052B [Luyang I]	DDG	6500 std	B/Medium		74	149	223	267	297	

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
PRC	Type 052C [Luyang II]	DDG	6500 std	B/Medium		74	149	223	267	297	
PRC	Type 052D [Luyang III]	DDG	6500 std	B/Medium		74	149	223	267	297	
PRC	Type 053H [Jianghu I]	FF	1425 std	D/Small	-0.10	24	49	73	87	97	Nat
PRC	Type 053H1 [Jianghu II]	FF	1425 std	D/Small	-0.10	24	49	73	87	97	Nat
PRC	Type 053H1G [Jianghu V]	FF	1425 std	D/Small	-0.10	24	49	73	87	97	Nat
PRC	Type 053H2 [Jianghu III]	FF	1655 std	C/Small	-0.10	27	54	80	96	107	Nat
PRC	Type 053H2G [Jiangwei I]	FF	1700 std	C/Small		30	61	91	109	121	
PRC	Type 053H3 [Jiangwei II]	FF	1700 std	C/Small		30	61	91	109	121	
PRC	Type 053HT(H) [Jianghu IV]	FF	1600 std	C/Small	-0.10	26	53	79	95	105	Nat
PRC	Type 053K [Jiangdong]	FF	1674 std	C/Small		30	60	90	108	120	
PRC	Type 054 [Jiangkai I]	FFG	3500 std	C/Small		49	98	147	176	196	
PRC	Type 054A [Jiankai II]	FFG	3400 std	C/Small		48	97	145	174	193	
PRC	Type 056 [Jingdao]	FFL	1300 std	D/Small		25	51	76	91	101	
PRC	Type 062 [Shanghai II]	PC	113 std	E/VSmall		--	--	--	--	20	
PRC	Type 065 [Jiangnan]	FF	1350 std	D/Small		26	52	78	94	104	
PRC	Type 071 [Yuzhao]	LHA	0 fl	B/Medium	-0.25	106	212	317	381	423	Amphib
PRC	Type 0712-II [Yuting]	LST	3770 std	C/Small	-0.25	39	78	116	140	155	Amphib
PRC	Type 072 [Yukan]	LST	3110 std	C/Small	-0.25	34	68	102	122	136	Amphib
PRC	Type 073 [Yudao]	LSM	1460 std	D/Small	-0.25	21	41	62	74	82	Amphib
PRC	Type 079 [Yuliang]	LCU	600 std	D/Small	-0.25	11	23	34	41	45	Amphib
PRC	Type 081	LHD	22000 std	A/Large	-0.25	126	251	377	452	502	Amphib
PRC	Type 091 [Han]	SSN	0 subm	C/Small	-0.50	29	58	87	104	116	Sub
PRC	Type 092 [Xia]	SSBN	0 subm	B/Medium	-0.50	39	78	117	140	156	Sub
PRC	Type 093 [Shang] -6000 tons	SSN	0 subm	B/Medium	-0.50	35	71	106	127	141	Sub

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
PRC	Type 093 [Shang] -7000 tons	SSN	0 subm	B/Medium	-0.50	39	78	117	140	156	Sub
PRC	Type 094 [Jin]	SSBN	0 subm	B/Medium	-0.50	53	106	158	190	211	Sub
PRC	Type 726 [Yuyi]	LCAC	160 std	E/VSmall	-0.45	--	--	--	--	14	Amphib, ACV
PRC	Type 903/903A Qiandaohu [Fuchi]	AOR	0 fl	B/Medium	-0.25	108	215	323	387	430	Aux
PRC	Type 920	AH	14000 std	B/Medium	-0.25	93	186	278	334	371	Aux
PRC	Type EM1B Homa/Hema	PTG	64 std	F/VSmall	--	--	--	--	--	14	
PRC	Yanha	AGI	3200 std	C/Small	-0.25	35	70	104	125	139	Aux
PRC	Yuanwang	AGM	17100 std	B/Medium	-0.25	106	213	319	383	425	Aux
Qatar	103 foot	PC	120 std	E/VSmall	--	--	--	--	--	21	
Qatar	France CMN 15-60	PB	0 fl	G/VSmall	-0.10	--	--	--	--	3.6	GRP
Qatar	French La Combattante III M	PTG	395 std	D/Small		12	23	35	41	46	
Qatar	Polycat 1450	PB	0 ltshp	G/VSmall	-0.10	--	--	--	--	5.7	GRP
Qatar	Vita	PTG	0 ltshp	D/Small		12	24	36	43	48	
Romania	Brutta I	PM	0 fl	E/VSmall	--	--	--	--	--	36	
Romania	Brutta II	PM	0 fl	E/VSmall	--	--	--	--	--	39	
Romania	Cosar	MM	1200 std	D/Small	-0.25	18	36	54	65	72	Aux
Romania	Croitor	AGP	0 fl	C/Small	-0.25	29	58	86	104	115	Aux
Romania	Ex-Russian Pr. 122bis [Kronstadt]	PC	210 std	E/VSmall	-0.15	--	--	--	--	26	ALS
Romania	Ex-Russian Pr. 123bis [P-4]	PT	22 std	F/VSmall	-0.25	--	--	--	--	5	Nat, ALS
Romania	Ex-Russian Pr. 204 [Poti]	PC	439 std	D/Small		12	25	37	44	49	
Romania	Ex-Russian Pr. 1241E [Tarantul I]	PTG	0 ltshp	D/Small		12	25	37	44	49	
Romania	Ex-Russian Pr. 255 [T-301]	MSI	148 std	E/VSmall	--	--	--	--	--	24	
Romania	Ex-UK Boxer (Type 22/2)	FF	4250 std	C/Small		56	112	168	202	224	
Romania	German M-40	MSF	637 std	D/Small		16	32	47	57	63	

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Romania	Muntenia	DD	5400 std	C/Small		66	131	197	236	262	
Romania	Musca	MSF	710 std	D/Small		17	34	51	61	68	
Romania	Naluca [Epitrop]	PT	0 fl	E/VSmall	-0.10	--	--	--	--	25	Nat
Romania	PRC Type 62 [Shanghai II]	PC	113 std	E/VSmall	-0.10	--	--	--	--	18	Nat
Romania	PRC Type 834 [Huchuan]	PTH	37 std	F/VSmall	-0.10	--	--	--	--	8.5	Nat
Romania	Project 1048 [Tetal I]	FF	1480 std	D/Small		28	56	83	100	111	
Romania	Project 1048M [Tetal II]	FF	1540 std	C/Small		29	57	86	103	114	
Romania	Project 1310	PM	474 std	D/Small		13	26	39	47	52	
Romania	Russian Pr. 205 [Osa I]	PTG	184 std	E/VSmall	-0.10	--	--	--	--	25	Nat
Romania	Russian Pr. 877E [Kilo]	SS	0 subm	C/Small	-0.50	23	45	68	81	90	Sub
Romania	Russian Pr. XV [M-class]	SSC	0	/	-0.50						Sub
Romania	Tulcea	AO	0 fl	C/Small	-0.25	24	48	72	86	96	Aux
Romania	V141	MSB	0 fl	F/VSmall		--	--	--	--	16	
Romania	VB76	PM	85 std	F/VSmall		--	--	--	--	16	
Russia	A-90 Orlyonok	LCUA	122 std	E/VSmall	-0.55	--	--	--	--	9.4	Nat, Amphib, ACV
Russia	Andizhan	AO	4500 std	C/Small	-0.35	38	76	113	136	151	Nat, Aux
Russia	Arzamas	Merch	0 grt	C/Small	-0.50	20	39	59	70	78	Civ
Russia	Dubna	AO	0 fl	B/Medium	-0.35	62	124	185	222	247	Nat, Aux
Russia	Ex-German Dora	AO	0 fl	D/Small	-0.50	10	19	29	34	38	Civ
Russia	French Mistral	LHD	0 fl	A/Large	-0.25	110	221	331	397	441	Amphib
Russia	Generic Factory Ship	Merchant	2900 std	C/Small	-0.50	22	44	65	78	87	Civ
Russia	Generic Trawler	Trawler	0 fl	D/Small	-0.50	11	21	32	38	42	Civ
Russia	Julius Fucik	Merch	0 grt	B/Medium	-0.50	71	142	212	255	283	Civ
Russia	Kaliningrad	Merch	0 grt	C/Small	-0.50	28	56	83	100	111	Civ

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Russia	Kaliningradneft'	AO	4820 std	C/Small	-0.35	40	79	119	142	158	Nat, Aux
Russia	Kashan	Merch	0 grt	C/Small	-0.50	17	34	50	60	67	Civ
Russia	Keyla	AK	0 fl	C/Small	-0.35	20	40	60	72	80	Nat, Aux
Russia	Kolomna	AK	6700 std	B/Medium	-0.25	57	114	170	204	227	Aux
Russia	Konda	AO	1980 std	C/Small	-0.50	17	34	50	60	67	Civ
Russia	KOP 1971	DD	4700 std	C/Small	-0.10	54	108	161	194	215	Nat
Russia	KOP 1972	DD	5000 std	C/Small	-0.10	56	112	168	202	224	Nat
Russia	KOP 1973	DDG	5500 std	C/Small	-0.10	60	120	179	215	239	Nat
Russia	Leninskiy Komsomol	AK	22000 std	A/Large	-0.35	109	218	326	392	435	Nat, Aux
Russia	Malina	ARR	0 fl	B/Medium	-0.35	65	131	196	235	261	Nat, Aux
Russia	Mod Andizhan	AEM	4500 std	C/Small	-0.35	38	76	113	136	151	Nat, Aux
Russia	Nercha	AO	0 fl	C/Small	-0.50	14	29	43	51	57	Civ
Russia	Okean	AGI	493 std	D/Small	-0.65	5	10	14	17	19	Civ, ALS
Russia	Olekhma	AO	0 fl	C/Small	-0.60	27	53	80	95	106	Civ, Nat
Russia	Pevek	AO	0 fl	C/Small	-0.60	27	53	80	95	106	Civ, Nat
Russia	Polyarnik	AO	0 fl	B/Medium	-0.50	52	103	155	185	206	Civ
Russia	Pr. 26 Kirov	CA	8800 std	B/Medium		91	182	272	327	363	
Russia	Pr. 26bis Maxim Gorkiy	CA	8454 std	B/Medium		89	177	266	319	354	
Russia	Pr. 30bis [Skoryy]	DD	2316 std	C/Small		37	75	112	134	149	
Russia	Pr. 31 [Mod Skory]	DD	2600 std	C/Small		40	81	121	145	161	
Russia	Pr. 35 [Mirka I]	FFL	950 std	D/Small	-0.10	19	37	56	67	74	Nat
Russia	Pr. 35M [Mirka II]	FFL	950 std	D/Small	-0.10	19	37	56	67	74	Nat
Russia	Pr. 42 [Kola]	FF	1900 std	C/Small		33	66	98	118	131	
Russia	Pr. 50 [Riga]	FFL	1260 std	D/Small		25	50	74	89	99	

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Russia	Pr. 52 Purga	AGB	3819 std	C/Small	-0.35	34	68	101	122	135	Nat, Aux
Russia	Pr. 53B Melitopol	AEM	0 fl	D/Small	-0.25	16	33	49	59	65	Aux
Russia	Pr. 56 [Kotlin]	DD	2600 std	C/Small	-0.25	30	61	91	109	121	Nat, ALS
Russia	Pr. 56K [Kotlin SAM]	DDG	2700 std	C/Small	-0.25	31	62	93	112	124	Nat, ALS
Russia	Pr. 56M [Kildin]	DD	2800 std	C/Small	-0.25	32	64	95	114	127	Nat, ALS
Russia	Pr. 56PLO [Kotlin]	DD	2600 std	C/Small	-0.15	34	69	103	123	137	ALS
Russia	Pr. 56U [Mod Kildin]	DDG	2800 std	C/Small	-0.25	32	64	95	114	127	Nat, ALS
Russia	Pr. 57A [Kanin]	DDG	3700 std	C/Small	-0.10	46	92	138	166	184	Nat
Russia	Pr. 57bis [Krupny]	DD	3500 std	C/Small	-0.10	44	89	133	159	177	Nat
Russia	Pr. 58 [Kynda]	CG	4330 std	C/Small	-0.10	51	102	153	184	204	Nat
Russia	Pr. 61 [Kashin]	DDG	3500 std	C/Small	-0.25	37	74	110	132	147	Nat, ALS
Russia	Pr. 61E Provornyy [Mod Kashin]	DDG	3810 std	C/Small	-0.25	39	78	117	140	156	Nat, ALS
Russia	Pr. 61M [Mod Kashin]	DDG	4010 std	C/Small	-0.25	40	81	121	145	161	Nat, ALS
Russia	Pr. 68bis Sverdlov	CL	13230 std	B/Medium		119	239	358	429	477	
Russia	Pr. 68bis Sverdlov (Pr. 68A)	CL	14470 std	B/Medium		127	253	380	455	506	
Russia	Pr. 68K Chapayev	CL	11130 std	B/Medium		106	213	319	383	425	
Russia	Pr. 68-U-1 Sverdlov	CC	14480 std	B/Medium		127	254	380	456	507	
Russia	Pr. 68-U-2 Sverdlov	CC	14360 std	B/Medium		126	252	378	454	504	
Russia	Pr. 70E Sverdlov	CLG	12970 std	B/Medium		118	236	353	424	471	
Russia	Pr. 97P [Ivan Susanin]	AGB	0 fl	C/Small	-0.35	28	56	84	101	112	Nat, Aux
Russia	Pr. 106K, 106KM [Vydra]	LCM	308 std	E/VSmall	-0.35	--	--	--	--	25	Nat, Amphib
Russia	Pr. 122bis [Kronstadt]	PC	210 std	E/VSmall	-0.15	--	--	--	--	26	ALS
Russia	Pr. 123bis [P-4]	PT	22 std	F/VSmall	-0.25	--	--	--	--	5	AAL
Russia	Pr. 123K [P-4]	PT	22 std	F/VSmall	-0.25	--	--	--	--	5	AAL

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Russia	Pr. 133 Antarets [Muravey]	PCH	180 std	E/VSmall	-0.10	--	--	--	--	24	Nat
Russia	Pr. 159 [Petya I]	FFL	950 std	D/Small	-0.10	19	37	56	67	74	Nat
Russia	Pr. 159A [Petya II]	FFL	950 std	D/Small	-0.10	19	37	56	67	74	Nat
Russia	Pr. 159M [Mod Petya I]	FFL	950 std	D/Small	-0.10	19	37	56	67	74	Nat
Russia	Pr. 159M [Mod Petya II]	FFL	950 std	D/Small	-0.10	19	37	56	67	74	Nat
Russia	Pr. 160 [Altay]	AO	0 fl	B/Medium	-0.60	29	57	86	103	114	Civ, Nat
Russia	Pr. 183 [P-6/8/10]	PT	61 std	F/VSmall		--	--	--	--	13	
Russia	Pr. 183R [Komar]	PTG	66 std	F/VSmall	-0.10	--	--	--	--	13	Nat
Russia	Pr. 188 [MP-8]	LCM	1020 std	D/Small	-0.35	14	28	42	50	56	Nat, Amphib
Russia	Pr. 189 [MDK-22]	LCM	641 std	D/Small	-0.35	10	21	31	37	41	Nat, Amphib
Russia	Pr. 190 Smetlivy [Mod Kashin]	DDG	3500 std	C/Small	-0.25	37	74	110	132	147	Nat, ALS
Russia	Pr. 200 [P-2]	PT	48 std	F/VSmall	-0.35	--	--	--	--	7.3	Wood
Russia	Pr. 201 SO I	PC	192 std	E/VSmall	-0.10	--	--	--	--	26	Nat
Russia	Pr. 201M SO I	PC	170 std	E/VSmall	-0.10	--	--	--	--	24	Nat
Russia	Pr. 201T SO I	PC	192 std	E/VSmall	-0.10	--	--	--	--	26	Nat
Russia	Pr. 204E [Poti]	PC	0 fl	E/VSmall	-0.10	--	--	--	--	37	Nat
Russia	Pr. 205 Tsunami [Osa I]	PTG	184 std	E/VSmall	-0.10	--	--	--	--	25	Nat
Russia	Pr. 205M, 205P [Stenka]	PC	170 std	E/VSmall	-0.10	--	--	--	--	24	Nat
Russia	Pr. 205PE [Slepen]	PC	205 std	E/VSmall	-0.10	--	--	--	--	27	Nat
Russia	Pr. 205U [Osa II]	PTG	215 std	E/VSmall	-0.10	--	--	--	--	28	Nat
Russia	Pr. 206 [Shershen]	PT	220 std	E/VSmall	-0.10	--	--	--	--	28	Nat
Russia	Pr. 206 Shtorm [Turya]	PTH	190 std	E/VSmall	-0.10	--	--	--	--	25	Nat
Russia	Pr. 206E [Mol]	PTH	220 std	E/VSmall	-0.10	--	--	--	--	28	Nat
Russia	Pr. 206.5 Uliss [Bogomol]	PTH	220 std	E/VSmall	-0.10	--	--	--	--	28	Nat, AAL

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Russia	Pr. 206M Shtorm [Turya]	PTH	190 std	E/VSmall	-0.10	--	--	--	--	25	Nat
Russia	Pr. 206MR Vikhr' [Matka]	PGH	220 std	E/VSmall	-0.25	--	--	--	--	23	Nat, ALS
Russia	Pr. 233, 233K Atrek	AS	3450 std	C/Small	-0.25	37	73	110	131	146	Aux
Russia	Pr. 253L [T 301]	MSI	147 std	E/VSmall		--	--	--	--	24	
Russia	Pr. 254 [T-43]	MSD	500 std	D/Small		14	27	41	49	54	
Russia	Pr. 257D [Vanya I]	MSC	254 std	E/VSmall	-0.45	--	--	--	--	19	Nat, Wood
Russia	Pr. 257DM [Vanya II]	MSC	254 std	E/VSmall	-0.45	--	--	--	--	19	Nat, Wood
Russia	Pr. 264A [T-58]	MSF	868 std	D/Small	-0.10	18	35	53	63	70	Nat
Russia	Pr. 265 [Sasha]	MSC	245 std	E/VSmall	-0.10	--	--	--	--	30	
Russia	Pr. 266 [Yurka]	MSF	520 std	D/Small	-0.25	10	21	31	37	41	Nat, ALS
Russia	Pr. 266DM [Natya II]	MHS	750 std	D/Small	-0.25	13	27	40	48	53	Nat, ALS
Russia	Pr. 266M [Natya I mod]	MSF	750 std	D/Small	-0.15	15	30	45	54	60	Nat, ALS
Russia	Pr. 266M Akvamaarine [Natya I]	MSF	750 std	D/Small	-0.25	13	27	40	48	53	Nat, ALS
Russia	Pr. 300 [Oskol]	AR	2078 std	C/Small	-0.35	23	45	68	81	90	Nat, Aux
Russia	Pr. 301T [Oskol]	AR	2100 std	C/Small	-0.35	23	46	68	82	91	Nat, Aux
Russia	Pr. 303 [Oskol]	AR	2034 std	C/Small	-0.35	22	45	67	80	89	Nat, Aux
Russia	Pr. 304/304M [Amur]	AR	4000 std	C/Small	-0.35	35	70	105	126	140	Nat, Aux
Russia	Pr. 306	LCM	0 ltshp	F/VSmall	-0.25	--	--	--	--	7.4	Amphib
Russia	Pr. 310 [Don]	AS	6730 std	B/Medium	-0.35	50	99	149	178	198	Nat, Aux
Russia	Pr. 317 [Alesha]	MM	2900 std	C/Small	-0.35	28	57	85	102	113	ML, Nat
Russia	Pr. 320 Ob'	AH	9000 std	B/Medium	-0.35	60	120	180	216	240	Nat, Aux
Russia	Pr. 323A [Lama]	AEM	3000 std	C/Small	-0.35	29	58	86	104	115	Nat, Aux
Russia	Pr. 323B [Lama]	AEM	3000 std	C/Small	-0.35	29	58	86	104	115	Nat, Aux
Russia	Pr. 361T [K-8]	MSB	20 std	G/VSmall	-0.35	--	--	--	--	4.1	Wood

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Russia	Pr. 394B [Primor'ye]	AGI	2900 std	C/Small	-0.35	28	57	85	102	113	Nat, Aux
Russia	Pr. 437K [Tartu]	AO	0 fl	D/Small	-0.25	19	38	57	68	76	Aux
Russia	Pr. 437N [Khobi]	AO	0 fl	D/Small	-0.25	19	38	57	68	76	Aux
Russia	Pr. 502P [Mayak]	AGI	0 fl	D/Small	-0.35	13	26	38	46	51	Nat, Aux
Russia	Pr. 502R [Mayak]	AFT	770 std	D/Small	-0.60	7	15	22	26	29	Civ, Nat
Russia	Pr. 503M [Al'pinst]	AGI	0 fl	D/Small	-0.60	8	17	25	30	33	Civ, Nat
Russia	Pr. 527M [Prut]	ASR	2800 std	C/Small	-0.35	28	55	83	99	110	Nat, Aux
Russia	Pr. 530 [Nepa]	ASR	5080 std	C/Small	-0.35	41	82	123	148	164	Nat, Aux
Russia	Pr. 532A [Mod T-58]	ASR	812 std	D/Small	-0.25	14	28	42	50	56	Aux
Russia	Pr. 537 [El'brus]	ASR	12430 std	B/Medium	-0.35	74	149	223	267	297	Nat, Aux
Russia	Pr. 550 [Amguema]	AK	0 fl	B/Medium	-0.35	74	148	221	266	295	Nat, Aux
Russia	Pr. 563 [Kazbeck]	AO	0 fl	B/Medium	-0.60	49	98	147	176	196	Civ, Nat
Russia	Project 572 [MP-6]	AEM	1247 std	D/Small	-0.35	16	32	48	58	64	Nat, Aux
Russia	Pr. 572 [MP-6 mod]	AK	1247 std	D/Small	-0.35	16	32	48	58	64	Nat, Aux
Russia	Pr. 572 [SYS-150]	LCM	1400 std	D/Small	-0.35	17	35	52	62	69	Nat, Amphib
Russia	Pr. 577 [Uda]	AO	0 fl	B/Medium	-0.35	46	92	138	166	184	Nat, Aux
Russia	Pr. 596P [Dauriya]	AK	0 fl	B/Medium	-0.35	47	93	140	167	186	Nat, Aux
Russia	Pr. 611 [Zulu]	SS	0 subm	C/Small	-0.50	19	38	57	68	76	Sub
Russia	Pr. 613 [Whiskey]	SS	0 subm	D/Small	-0.50	13	26	39	47	52	Sub
Russia	Pr. 627, 627A Kit [November]	SSN	0 subm	C/Small	-0.50	27	55	82	98	109	Sub
Russia	Pr. 629 [Golf I]	SSB	0 subm	C/Small	-0.50	21	43	64	77	85	Sub
Russia	Pr. 629A, 629M [Golf II]	SSB	0 subm	C/Small	-0.50	21	43	64	77	85	Sub
Russia	Pr. 633 [Romeo]	SS	0 subm	C/Small	-0.50	15	31	46	55	61	Sub
Russia	P.t 636.6 Varshavyanka	SS	0 subm	C/Small	-0.50	23	46	68	82	91	Sub

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Russia	Pr. 641, 641I, 641K [Foxtrot]	SS	0 subm	C/Small	-0.50	20	39	59	70	78	Sub
Russia	Pr. 641B Som [Tango]	SS	0 subm	C/Small	-0.50	25	50	75	90	100	Sub
Russia	Pr. 644 [Whiskey Twin Cylinder]	SSG	0 subm	D/Small	-0.50	14	27	41	49	54	Sub
Russia	Pr. 650, 650RP [Telnovsk (Tissa)]	AK	727 std	D/Small	-0.25	13	26	39	47	52	Aux
Russia	Pr. 651 [Juliett]	SSG	0 subm	C/Small	-0.50	26	52	77	93	103	Sub
Russia	Pr. 658 [Hotel]	SSBN	0 subm	C/Small	-0.50	33	65	98	117	130	Sub
Russia	Pr. 658M [Hotel II]	SSBN	0 subm	C/Small	-0.50	33	65	98	117	130	Sub
Russia	Pr. 659 [Echo I]	SSGN	0 subm	C/Small	-0.50	33	67	100	120	133	Sub
Russia	Pr. 661 Anchar [Papa]	SSGN	0 subm	B/Medium	-0.50	37	74	111	133	148	Sub
Russia	Pr. 665 [Whiskey Long Bin]	SSG	0 subm	C/Small	-0.50	15	30	45	54	60	Sub
Russia	Pr. 667A [Yankee]	SSBN	0 subm	B/Medium	-0.50	48	97	145	174	193	Sub
Russia	Pr. 667AT Grusha [Yankee Notch]	SSGN	0 subm	B/Medium	-0.50	54	109	163	195	217	Sub
Russia	Pr. 667B Murena [Delta I]	SSBN	0 subm	B/Medium	-0.50	54	109	163	195	217	Sub
Russia	Pr. 667BD Murena M [Delta II]	SSBN	0 subm	B/Medium	-0.50	59	118	177	212	236	Sub
Russia	Pr. 667BDR Kal'mar [Delta III]	SSBN	0 subm	B/Medium	-0.50	59	118	177	212	236	Sub
Russia	Pr. 667BDRM Del'fin [Delta IV]	SSBN	0 subm	B/Medium	-0.50	66	133	199	239	265	Sub
Russia	Pr. 670A Skat [Charlie I]	SSGN	0 subm	C/Small	-0.50	31	62	92	111	123	Sub
Russia	Pr. 670M Skat M [Charlie II]	SSGN	0 subm	C/Small	-0.50	33	67	100	120	133	Sub
Russia	Pr. 671, 671V, 671K, 671M Kefal' [Victor I]	SSN	0 subm	C/Small	-0.50	30	60	90	108	120	Sub
Russia	Pr. 671RT [Victor II]	SSN	0 subm	B/Medium	-0.50	35	69	104	124	138	Sub
Russia	Pr. 671RTM Shchuka [Victor III]	SSN	0 subm	B/Medium	-0.50	36	73	109	131	145	Sub
Russia	Pr. 675 [Echo II]	SSGN	0 subm	B/Medium	-0.50	35	71	106	127	141	Sub
Russia	Pr. 675MKV [Echo II Mod]	SSGN	0 subm	B/Medium	-0.50	35	71	106	127	141	Sub
Russia	Pr. 677 Lada	SS	0 subm	C/Small	-0.50	18	36	53	64	71	Sub

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Russia	Pr. 686 [Charlie III]	SSGN	0 subm	B/Medium	-0.50	38	75	113	135	150	Sub
Russia	Pr. 705, 705K [Alfa]	SSN	0 subm	C/Small	-0.35	30	59	89	106	118	Sub, Titan
Russia	Pr. 734 [Dnepr]	AS	4500 std	C/Small	-0.35	38	76	113	136	151	Nat, Aux
Russia	Pr. 740 [Yuniy Patrizan]	AK	2800 std	C/Small	-0.35	28	55	83	99	110	Nat, Aux
Russia	Pr. 770 [MP-2]	LCM	454 std	D/Small	-0.25	10	19	29	34	38	Amphib
Russia	Pr. 770D [Polnocny A]	LST	704 std	D/Small	-0.35	11	22	33	40	44	Nat, Amphib
Russia	Pr. 771 [Polnocny B]	LST	750 std	D/Small	-0.35	12	23	35	41	46	Nat, Amphib
Russia	Pr. 773 [Polnocny C]	LSM	980 std	D/Small	-0.35	14	28	41	50	55	Nat, Amphib
Russia	Pr. 775 [Ropucha I]	LST	3450 std	C/Small	-0.35	32	63	95	113	126	Nat, Amphib
Russia	Pr. 775M [Ropucha II]	LST	3450 std	C/Small	-0.35	32	63	95	113	126	Nat, Amphib
Russia	Pr. 850 [Nikolay Zubov]	AGI	2200 std	C/Small	-0.35	24	47	71	85	94	Nat, Aux
Russia	Pr. 861M [Moma]	AGI	1260 std	D/Small	-0.35	16	33	49	59	65	Nat, Aux
Russia	Pr. 864 [Vishnaya]	AGI	3100 std	C/Small	-0.35	30	59	89	106	118	Nat, Aux
Russia	Pr. 865 Piranya [Losos]	SSC	0 subm	D/Small	-0.50	6	12	17	21	23	Sub
Russia	Pr. 877, 877EM Paltus [Kilo]	SS	0 subm	C/Small	-0.50	23	45	68	81	90	Sub
Russia	Pr. 881 Merkuriy	SSG	25000 std	A/Large	-0.50	91	183	274	329	365	Sub
Russia	Pr. 885 Yasen	SSGN	0 subm	B/Medium	-0.50	61	123	184	221	245	Sub
Russia	Pr. 941 Akula [Typhoon]	SSBN	0 subm	A/Large	-0.30	145	289	434	520	578	Sub, Special+20%
Russia	Pr. 941Kh [Mod Typhoon]	SSBN	0 subm	A/Large	-0.30	151	301	452	542	602	Sub, Special+20%
Russia	Pr. 945 Barracuda [Sierra I]	SSN	0 subm	B/Medium	-0.35	57	114	170	204	227	Sub, Titan
Russia	Pr. 945A Mars [Sierra II]	SSN	0 subm	B/Medium	-0.35	58	116	173	208	231	Sub, Titan
Russia	Pr. 949 Granit [Oscar I]	SSGN	0 subm	B/Medium	-0.50	71	141	212	254	282	Sub
Russia	Pr. 949A Antey [Oscar II]	SSGN	0 subm	A/Large	-0.50	77	154	231	277	308	Sub
Russia	Pr. 955 Borey	SSBN	0 subm	A/Large	-0.50	77	154	231	277	308	Sub

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Russia	Pr. 956 Sarych [Sovremenny]	DDG	6500 std	B/Medium	-0.25	56	112	167	201	223	Nat, ALS
Russia	Pr. 956A Sarych [Mod Sovremenny]	DDG	6500 std	B/Medium	-0.25	56	112	167	201	223	Nat, ALS
Russia	Pr. 971 Shchuka-Bars [Akula I]	SSN	0 subm	B/Medium	-0.50	50	99	149	178	198	Sub
Russia	Pr. 971M Shchuka-Bars [Akula II]	SSN	0 subm	B/Medium	-0.50	51	102	153	184	204	Sub
Russia	Pr. 971U Shchuka-Bars [Improved Akula I]	SSN	0 subm	B/Medium	-0.50	50	99	149	178	198	Sub
Russia	Pr. 1041.0 [Svetlyak]	PC	0 fl	E/VSmall	-0.25	--	--	--	--	29	Nat, ALS
Russia	Pr. 1123 Moskva	CHG	14590 std	B/Medium	-0.10	115	229	344	412	458	Nat
Russia	Pr. 1124A [Grisha II]	FFL	850 std	D/Small	-0.10	17	35	52	62	69	Nat
Russia	Pr. 1124A Albatros [Grisha I]	FFL	850 std	D/Small	-0.10	17	35	52	62	69	Nat
Russia	Pr. 1124K [Grisha IV]	FFL	930 std	D/Small	-0.10	18	37	55	66	73	Nat
Russia	Pr. 1124M, 1124P [Grisha III]	FFL	860 std	D/Small	-0.10	17	35	52	62	69	Nat
Russia	Pr. 1124MEh, 1124MU [Grisha V]	FFL	910 std	D/Small	-0.10	18	36	54	65	72	Nat
Russia	Pr. 1134 [Kresta I]	CG	5340 std	C/Small	-0.10	59	117	176	211	234	Nat
Russia	Pr. 1134A Berkut A [Kresta II]	CG	5680 std	B/Medium	-0.10	61	122	183	220	244	Nat
Russia	Pr. 1134B Berkut B [Kara]	CG	6700 std	B/Medium	-0.10	68	137	205	246	273	Nat
Russia	Pr. 1134BF Azov	CG	6700 std	B/Medium	-0.10	68	137	205	246	273	Nat
Russia	Pr. 1135 Burevestnik [Krivak I]	FF	3075 std	C/Small	-0.10	41	81	122	146	162	Nat
Russia	Pr. 1135.2, 1135.3 [Krivak IV]	FF	3175 std	C/Small	-0.10	42	83	125	149	166	Nat
Russia	Pr. 1135.6 Grigorovich [Krivak IV]	FF	3850 std	C/Small	-0.10	47	94	141	169	188	Nat
Russia	Pr. 1135M Burevestnik-M [Krivak II]	FF	3170 std	C/Small	-0.25	35	69	104	124	138	Nat, ALS
Russia	Pr. 1135P Nerey [Krivak III]	FF	3180 std	C/Small	-0.10	42	83	125	149	166	Nat
Russia	Pr. 1141 [Babochka]	PCH	320 std	E/VSmall	-0.10	--	--	--	--	36	Nat
Russia	Pr. 1141.1 Sokol [Mukha]	PCH	320 std	E/VSmall	-0.10	--	--	--	--	36	Nat
Russia	Pr. 1143 Kiev	CVHG	36000 std	A/Large	-0.10	209	419	628	753	837	Nat

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Russia	Pr. 1143.3 Admiral Gorshkov [Mod Kiev]	CVHG	40000 std	A/Large	-0.10	225	449	674	808	898	Nat
Russia	Pr. 1143.5 Orel Admiral Kuznetsov	CV	55000 std	A/Large	-0.10	278	555	833	999	1110	Nat
Russia	Pr. 1143M Novorossiysk	CVHG	36000 std	A/Large	-0.10	209	419	628	753	837	Nat
Russia	Pr. 1144 Admiral Lazarev (ex-Frunze)	BCGN	24300 std	A/Large	-0.10	161	322	483	580	644	Nat
Russia	Pr. 1144 Admiral Nakhimov (ex-Kalinin)	BCGN	24300 std	A/Large	-0.10	161	322	483	580	644	Nat
Russia	Pr. 1144 Admiral Ushakov (ex-Kirov)	BCGN	24300 std	A/Large	-0.10	161	322	483	580	644	Nat
Russia	Pr. 1144 Petr Velikiy	BCGN	24300 std	A/Large	-0.10	161	322	483	580	644	Nat
Russia	Pr. 1153 Orel	CV	60000 std	A/Large	-0.10	294	589	883	1059	1177	Nat
Russia	Pr. 1154 Yastreb	FF	3800 std	C/Small	-0.10	47	94	140	168	187	Nat
Russia	Pr. 1155.1 Admiral Chabanenko	DD	7700 std	B/Medium	-0.25	62	125	187	224	249	Nat, ALS
Russia	Pr. 1155.1, 1155, 1155R Udalyo	DD	6700 std	B/Medium	-0.25	57	114	170	204	227	Nat, ALS
Russia	Pr. 1159T [Koni]	FFL	1515 std	C/Small	-0.10	25	51	76	91	101	Nat
Russia	Pr. 1164 Atlant	CG	9500 std	B/Medium	-0.10	86	172	258	310	344	Nat
Russia	Pr. 1166.1 Tatarstan	FFL	1500 std	D/Small	-0.15	24	48	71	86	95	ALS
Russia	Pr. 1166.2 Gepard 2	FFL	1500 std	D/Small	-0.15	24	48	71	86	95	ALS
Russia	Pr. 1166.3 Gepard 3	FFL	0 fl	C/Small	-0.15	27	54	80	96	107	ALS
Russia	Pr. 1171 Tapir [Alligator]	LST	2905 std	C/Small	-0.35	28	57	85	102	113	Nat, Amphib
Russia	Pr. 1171.1 Ivan Gren [Alligator V]	LST	0 fl	C/Small	-0.25	42	84	126	151	168	Amphib
Russia	Pr. 1174 Edinorog [Ivan Rogov]	LPD	11000 std	B/Medium	-0.35	69	137	206	247	274	Nat, Amphib
Russia	Pr. 1176 [Ondatra]	LCMA	90 std	E/VSmall	-0.35	--	--	--	--	11	Nat, Amphib
Russia	Pr. 1205 Skat [Gus]	LCMA	27 std	F/VSmall	-0.55	--	--	--	--	3.4	Nat, Amphib, ACV
Russia	Pr. 1206 Kalmar [Lebed]	LCMA	70 std	F/VSmall	-0.55	--	--	--	--	6.5	Nat, Amphib, ACV
Russia	Pr. 1206.1 Murena [Tsaplya]	LCMA	80 std	F/VSmall	-0.55	--	--	--	--	7.1	Nat, Amphib, ACV
Russia	Pr. 1209 Omar [Utenok]	LCMA	43 std	F/VSmall	-0.55	--	--	--	--	4.7	Nat, Amphib, ACV

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Russia	Pr. 1230 Zubr [Pomornik]	LCUA	415 std	D/Small	-0.55	5	11	16	19	21	Nat, Amphib, ACV
Russia	Pr. 1232 Dzheyran [Aist]	LCUA	250 std	E/VSmall	-0.55	--	--	--	--	15	Nat, Amphib, ACV
Russia	Pr. 1234 Ovod [Nanuchka I]	PGG	639 std	D/Small	-0.10	14	29	43	51	57	Nat
Russia	Pr. 1234.1 [Nanuchka III]	PGG	639 std	D/Small	-0.10	14	29	43	51	57	Nat
Russia	Pr. 1234.7 [Nanuchka IV]	PGG	639 std	D/Small	-0.25	12	24	35	42	47	Nat, ALS
Russia	Pr. 1239 Sivuch [Dergach]	PGGA	910 std	D/Small	-0.35	13	26	39	47	52	Nat, AAL
Russia	Pr. 1240 Uragan [Sarancha]	PGH	280 std	E/VSmall	-0.10	--	--	--	--	33	Nat
Russia	Pr. 1241, 1241.1 [Tarantul I]	PTG	385 std	D/Small	-0.25	9	17	26	31	34	Nat, ALS
Russia	Pr. 1241.2 Molniya 2 [Pauk I/II]	PC	425 std	D/Small	-0.10	11	22	32	39	43	Nat
Russia	Pr. 1241.7 [Tarantul II]	PTG	436 std	D/Small	-0.25	9	19	28	33	37	Nat, ALS
Russia	Pr. 1241RZ Molniya M [Tarantul III]	PTG	477 std	D/Small	-0.25	10	20	29	35	39	Nat, ALS
Russia	Pr. 1244.1 Novik	FF	3000 std	C/Small		44	89	133	159	177	
Russia	Pr. 1252 [Zhenya]	MSC	220 std	E/VSmall	-0.20	--	--	--	--	25	Nat, GRP
Russia	Pr. 1256 Topaz [Andrusha]	MSD	320 std	E/VSmall	-0.10	--	--	--	--	36	Nat
Russia	Pr. 1258 Korund [Yevgenya]	MSI	95 std	E/VSmall	-0.20	--	--	--	--	14	Nat, GRP
Russia	Pr. 1259 Almaz [Olya]	MSB	62 std	F/VSmall	-0.20	--	--	--	--	11	Nat, GRP
Russia	Pr. 1265 [Sonya]	MSC	427 std	D/Small	-0.45	7	14	20	24	27	Nat, Wood
Russia	Pr. 1265.5 [Sonya mod]	MSC	427 std	D/Small	-0.45	7	14	20	24	27	Nat, Wood
Russia	Pr. 1266 [Gorya]	MHS	900 std	D/Small	-0.35	13	26	39	47	52	Nat, Aux
Russia	Pr. 1300 [Propyvatel']	MSD	88 std	E/VSmall	-0.10	--	--	--	--	15	Nat
Russia	Pr. 1331M [Parchim II]	PG	865 std	D/Small	-0.10	18	35	53	63	70	Nat
Russia	Pr. 1338 [Baltika]	MSC	210 std	E/VSmall	-0.60	--	--	--	--	12	Civ, Nat
Russia	Pr. 1376 [Ilyusha]	MSD	70 std	F/VSmall	-0.10	--	--	--	--	13	Nat
Russia	Pr. 1400 Grif [Zhuk]	PC	36 std	F/VSmall	-0.35	--	--	--	--	6	Nat, AAL

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Russia	Pr. 1545 [Baskunchak]	AO	0 fl	C/Small	-0.35	26	51	77	92	102	Nat, Aux
Russia	Pr. 1552 [Sofia]	AO	0 fl	A/Large	-0.60	121	242	362	435	483	Civ, Nat
Russia	Pr. 1559V Boris Chilikin	AO	9700 std	B/Medium	-0.35	63	126	189	227	252	Nat, Aux
Russia	Pr. 1785	LCM	0 ltshp	F/VSmall	-0.25	--	--	--	--	7.4	Amphib
Russia	Pr. 1791 [Amga]	AEM	0 ltshp	C/Small	-0.35	33	67	100	120	133	Nat, Aux
Russia	Pr. 1823 [Muna]	AE	0 fl	D/Small	-0.35	10	20	29	35	39	Nat, Aux
Russia	Pr. 1826 [Balzam]	AGI	3100 std	C/Small	-0.35	30	59	89	106	118	Nat, Aux
Russia	Pr. 1833 Berezina	AOR	15000 std	B/Medium	-0.35	84	169	253	303	337	Nat, Aux
Russia	Pr. 1850 [Andizhan]	AEM	2365 std	C/Small	-0.35	25	49	74	88	98	Nat, Aux
Russia	Pr. 1886.1 [Ugra]	AS	6750 std	B/Medium	-0.35	50	99	149	178	198	Nat, Aux
Russia	Pr. 1914, 1914.1 Marshal Nedelin	AGM	0 fl	A/Large	-0.35	100	200	300	360	400	Nat, Aux
Russia	Pr. 1918 [Vytegrales]	AK	4900 std	C/Small	-0.35	40	80	120	144	160	Nat, Aux
Russia	Pr. 1941 Titan [Kapusta]	CC	32780 std	A/Large	-0.10	197	393	590	707	786	Nat
Russia	Pr. 10750 [Lida]	MSI	131 std	E/VSmall	-0.20	--	--	--	--	18	Nat, GRP
Russia	Pr. 11570 [Aleksandr Byrkin]	AEM	0 ltshp	B/Medium	-0.35	61	123	184	221	245	Nat, Aux
Russia	Pr. 11780	LHA	0 fl	A/Large	-0.35	106	213	319	383	425	Nat, Amphib
Russia	Pr. 20380 Steregushchiy	FFL	1850 std	C/Small	-0.10	29	58	87	104	116	GRP
Russia	Pr. 20380.1 Soobrazitelny	FFL	1850 std	C/Small	-0.10	29	58	87	104	116	GRP
Russia	Pr. 20385 Gremyaschiy	FFL	2200 std	C/Small	-0.10	33	65	98	117	130	GRP
Russia	Pr. 21630 Buyan	FFL	550 std	D/Small	-0.10	13	26	38	46	51	
Russia	Pr. 21631 Buyan-M	FFL	949 std	D/Small		21	41	62	74	82	
Russia	Pr. 21820 Dyugon	LCM	0 fl	E/VSmall	-0.25	--	--	--	--	25	Amphib
Russia	Pr. 21956	DDG	0 fl	B/Medium		83	166	248	298	331	
Russia	Pr. 22100 Ocean	PB	0 fl	C/Small		37	74	111	133	148	

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Russia	Pr. 22220	AGBN	33540 std	A/Large		222	444	665	798	887	
Russia	Pr. 22350 Adm. Gorshkov	FF	4500 std	C/Small		58	116	174	209	232	
Russia	Pr. 23130 Academician Panshin	AOR	14000 std	B/Medium	-0.25	93	186	278	334	371	Aux
Russia	Pr. Anchar	DDGN	12000 std	B/Medium	-0.25	84	168	251	302	335	Nat, ALS
Russia	Pr. OD-200 [MO-V]	PC	48 std	F/VSmall	-0.35	--	--	--	--	7.3	Wood
Russia	Sorum	ATA	1210 std	D/Small	-0.35	16	32	47	57	63	Nat, Aux
Russia	Yuriy Patrizan	AEM	2800 std	C/Small	-0.35	28	55	83	99	110	Nat, Aux
Samoa	Austrailan ASI 315	PC	0 fl	E/VSmall		--	--	--	--	23	
Sao Tome and Principe	Russian Pr. 1400 Grif [Zhuk]	PC	36 std	F/VSmall	-0.35	--	--	--	--	6	Nat, AAL
Saudi Arabia	Al Jouf	WPC	0 fl	E/VSmall	-0.15	--	--	--	--	23	ALS
Saudi Arabia	Al Madinah	FF	2000 std	C/Small		34	68	101	122	135	
Saudi Arabia	Al Riyadh	FFG	3800 std	C/Small		52	104	156	187	208	
Saudi Arabia	Al Siddiq	PTG	425 std	D/Small		12	24	36	43	48	
Saudi Arabia	Boraida	AOR	10500 std	B/Medium	-0.25	77	154	230	276	307	Aux
Saudi Arabia	CGV-26 Explorer	WPB	80 std	F/VSmall		--	--	--	--	16	
Saudi Arabia	FRG Jaguar	PT	170 std	E/VSmall		--	--	--	--	26	
Saudi Arabia	Naja ASD 12	WPB	0 fl	G/VSmall	-0.25	--	--	--	--	2.1	AAL
Saudi Arabia	Rapier	WPB	0 fl	F/VSmall		--	--	--	--	6.7	
Saudi Arabia	Scorpion	WPB	0 fl	F/VSmall		--	--	--	--	7.9	
Saudi Arabia	Sea Guard SM742	WPB	0 fl	F/VSmall	-0.25	--	--	--	--	8	AAL
Saudi Arabia	SM 311 Tomcat	WPB	0 fl	G/VSmall	-0.25	--	--	--	--	1.6	AAL
Saudi Arabia	Stan Patrol 2606	WPB	55 std	F/VSmall	-0.25	--	--	--	--	9.2	AAL
Saudi Arabia	UK Sandown	MHC	0 ltshp	D/Small	-0.10	11	22	32	39	43	GRP
Saudi Arabia	US 78 foot	PB	0 fl	F/VSmall	-0.25	--	--	--	--	8.4	AAL

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Saudi Arabia	US LCM(6)	LCM	24 std	F/VSmall	-0.25	--	--	--	--	5.3	Amphib
Saudi Arabia	US LCU 1646	LCUA	173 std	E/VSmall	-0.25	--	--	--	--	20	Amphib
Saudi Arabia	US MSC 322	MSC	320 std	E/VSmall	-0.35	--	--	--	--	26	Wood
Saudi Arabia	US PCG	FFL	903 std	D/Small		20	40	60	72	80	
Senegal	French EDIC 700	LCT	730 std	D/Small	-0.25	13	26	39	47	52	Amphib
Senegal	Interceptor	PC	52 std	F/VSmall		--	--	--	--	12	
Senegal	Osprey 55	PB	500 std	D/Small		14	27	41	49	54	
Senegal	PR 48	PB	240 std	E/VSmall		--	--	--	--	33	
Senegal	PR 72	PB	450 std	D/Small		13	25	38	45	50	
Senegal	PRC Type 62 [Shanghai II]	PT	122 std	E/VSmall	-0.10	--	--	--	--	19	Nat
Senegal	US 51ft	PC	24 std	F/VSmall	-0.25	--	--	--	--	5.3	AAL
Sierra Leone	PRC Haizhui	PC	150 std	E/VSmall	-0.10	--	--	--	--	22	Nat
Sierra Leone	PRC Type 62 [Shanghai II]	PT	122 std	E/VSmall	-0.10	--	--	--	--	19	Nat
Sierra Leone	Tracker MkII	PC	31 std	F/VSmall	-0.10	--	--	--	--	7.6	GRP
Singapore	Endurance	LST	6000 std	B/Medium	-0.25	53	106	158	190	211	Amphib
Singapore	Ex-Swedish Type A12	SS	0 subm	D/Small	-0.50	13	27	40	48	53	Sub
Singapore	Ex-UK Sir Lancelot	LSM	3270 std	C/Small	-0.25	35	71	106	127	141	Amphib
Singapore	Ex-US Redwing	MSC	300 std	E/VSmall	-0.35	--	--	--	--	25	Wood
Singapore	Fearless	PG	0 fl	D/Small		12	24	36	43	48	
Singapore	Formidable	FFG	3200 std	C/Small		46	93	139	167	185	
Singapore	Sea Wolf	PTG	226 std	E/VSmall		--	--	--	--	32	
Singapore	Swedish Landsort	MH	310 std	E/VSmall		--	--	--	--	39	
Singapore	Type A	PC	112 std	E/VSmall	-0.25	--	--	--	--	15	AAL
Singapore	Type B	PC	112 std	E/VSmall	-0.25	--	--	--	--	15	AAL

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Singapore	Victory (MGB 62)	PG	550 std	D/Small		14	29	43	51	57	
Somalia	Ex-Russian Pr. 183 [P-6]	PT	61 std	F/VSmall	-0.10	--	--	--	--	12	Nat
Somalia	Ex-Russian Pr. 205U [Osa II]	PTG	218 std	E/VSmall	-0.10	--	--	--	--	28	Nat
Somalia	Ex-Russian Pr. 368 [Poluchat I]	PB	80 std	F/VSmall	-0.10	--	--	--	--	14	Nat
Somalia	Ex-Russian Pr. 770D [Polnocny A]	LSM	704 std	D/Small	-0.35	11	22	33	40	44	Nat, Amphib
Somalia	Ex-Russian Pr. 1785 [T-4]	LCM	0 fl	F/VSmall	-0.35	--	--	--	--	8.4	Nat, Amphib
Somalia	Russian Pr. 206E [Mol]	PTH	170 std	E/VSmall	-0.10	--	--	--	--	24	Nat
Spain	Baleares	FFG	3350 std	C/Small	-0.15	41	81	122	146	162	ALS
Spain	Cadiz	ATA	949 std	D/Small		21	41	62	74	82	
Spain	Descubierta	FF	1428 std	D/Small		27	54	81	97	108	
Spain	Ex-US Fletcher (D21, D22)	DD	2850 std	C/Small		43	86	128	154	171	
Spain	Ex-US Fletcher (D23, D24, D25)	DD	2850 std	C/Small		43	86	128	154	171	
Spain	Ex-US Gearing	DD	2425 std	C/Small		39	77	116	139	154	
Spain	Ex-US Independence	CVL	13000 std	B/Medium		118	236	353	424	471	
Spain	Ex-US Newport	LST	0 ltshp	B/Medium	-0.25	51	101	152	182	202	Amphib
Spain	Ex-US Paul Revere	SPA	10704 std	B/Medium		104	207	311	373	414	
Spain	Ex-US Terrenbone Parrish	LST	2590 std	C/Small	-0.25	30	61	91	109	121	Amphib
Spain	F100	FFG	0 fl	C/Small		53	105	158	189	210	
Spain	France Agosta	SS	0 subm	C/Small	-0.50	16	31	47	56	62	Sub
Spain	France Daphné	SS	0 subm	D/Small	-0.50	11	22	33	40	44	Sub
Spain	France Scorpene	SS	0 subm	C/Small	-0.50	19	39	58	69	77	Sub
Spain	Juan Carlos I	LPH	0 fl	A/Large	-0.40	104	207	311	373	414	MStd90, Amphib
Spain	Mahon	ATF	700 std	D/Small	-0.50	9	17	26	31	34	Civ
Spain	Meteoro	PB	0 fl	C/Small	-0.15	31	62	92	111	123	MStd90

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Spain	Marqués de la Ensenada	AO	0 fl	B/Medium	-0.40	65	131	196	235	261	MStd90, Aux
Spain	Netherlands Rotterdam	LPD	9500 std	B/Medium	-0.40	57	115	172	206	229	MStd90, Amphib
Spain	Patíño	AOR	7040 std	B/Medium	-0.25	59	118	176	212	235	Aux
Spain	Principe de Asturias	CVH	15912 std	B/Medium		135	270	404	485	539	
Spain	Roger de Lauria	DD	3012 std	C/Small		45	89	134	160	178	
Spain	Serviola	PS	826 std	D/Small		19	38	56	68	75	
Spain	Teide	AO	2750 std	C/Small	-0.25	31	63	94	113	125	Aux
Spain	US O.H. Perry	FFG	3610 std	C/Small	-0.15	43	85	128	153	170	ALS
Sri Lanka	Jayesagara	PC	0 fl	E/VSmall	--	--	--	--	--	36	
St Kitts	110 foot	WPC	0 fl	F/VSmall	--	--	--	--	--	16	
St Kitts	US Dauntless	WPB	0 fl	G/VSmall	-0.25	--	--	--	--	3.5	AAL
St. Lucia	US 65 foot	PC	0 fl	F/VSmall	-0.25	--	--	--	--	6.5	AAL
St. Lucia	US Dauntless	WPB	0 fl	G/VSmall	-0.25	--	--	--	--	3.5	AAL
Sudan	Yugoslav Type 15	PC	0 fl	G/VSmall	-0.45	--	--	--	--	3	Nat, Wood
Suriname	22 Meter	PC	65 std	F/VSmall	--	--	--	--	--	14	
Suriname	32 Meter	PC	127 std	E/VSmall	--	--	--	--	--	22	
Suriname	Rodman 55	PB	0 fl	G/VSmall	-0.10	--	--	--	--	4.2	GRP
Suriname	Rodman 101	PB	0 fl	F/VSmall	-0.10	--	--	--	--	8.8	GRP
Sweden	200 class	LCP	0 fl	F/VSmall	-0.25	--	--	--	--	5.7	Amphib
Sweden	501 class	ML	0 fl	G/VSmall	-0.25	--	--	--	--	3.5	ML
Sweden	603 class	LCM	20 std	G/VSmall	-0.25	--	--	--	--	4.7	Amphib
Sweden	Alvsborg	ML	2660 std	C/Small		41	82	123	148	164	
Sweden	Arko	MSC	272 std	E/VSmall	-0.35	--	--	--	--	23	Wood
Sweden	CB-90H	LCP	14 std	G/VSmall	-0.50	--	--	--	--	2.5	Amphib, AAL

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Sweden	Cralskrona	ML	3300 std	C/Small	-0.25	36	71	107	128	142	ML
Sweden	Dalarö	PB	0 fl	F/VSmall	--	--	--	--	--	10	
Sweden	Ejdern	YAG	34 std	F/VSmall	-0.25	--	--	--	--	6.7	AAL
Sweden	Gässten (Wood)	MSI	120 std	E/VSmall	-0.35	--	--	--	--	13	Wood
Sweden	Gässten (GRP)	MSI	120 std	E/VSmall	-0.10	--	--	--	--	19	GRP
Sweden	Gillöga	MSI	110 std	E/VSmall	-0.35	--	--	--	--	13	Wood
Sweden	Göteborg	PTG	380 std	D/Small	-0.15	10	19	29	34	38	ALS
Sweden	Grim (275 t)	LCM	275 std	E/VSmall	-0.25	--	--	--	--	27	Amphib
Sweden	Grim (375 t)	LCM	327 std	E/VSmall	-0.25	--	--	--	--	30	Amphib
Sweden	Hajen	SS	0 subm	D/Small	-0.50	10	20	30	36	40	Sub
Sweden	Halland	DD	2630 std	C/Small		41	81	122	146	162	
Sweden	Hano	MSC	272 std	E/VSmall		--	--	--	--	36	
Sweden	Hisingen	MSI	130 std	E/VSmall	-0.35	--	--	--	--	14	Wood
Sweden	Hugin	PTG	140 std	E/VSmall		--	--	--	--	23	
Sweden	Kbv 171	MCS	335 std	E/VSmall	-0.10	--	--	--	--	37	GRP
Sweden	Landsort	MHC	310 std	E/VSmall	-0.10	--	--	--	--	35	GRP
Sweden	Orion	AGI	0 fl	D/Small	-0.25	18	36	54	65	72	Aux
Sweden	Ostergotland	DD	2150 std	C/Small		36	71	107	128	142	
Sweden	Plejad (145 t)	PT	145 std	E/VSmall		--	--	--	--	23	
Sweden	Plejad (155 t)	PT	155 std	E/VSmall		--	--	--	--	25	
Sweden	SAM	MSD	0 fl	G/VSmall	-0.25	--	--	--	--	4.2	MHull
Sweden	Skanor	PB	40 std	F/VSmall		--	--	--	--	10	
Sweden	Spica	PT	190 std	E/VSmall		--	--	--	--	28	
Sweden	Spica II	PTG	190 std	E/VSmall		--	--	--	--	28	

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Sweden	Stockholm	FFL	310 std	E/VSmall	--	--	--	--	--	39	
Sweden	Styrsö	MHI	175 std	E/VSmall	-0.10	--	--	--	--	24	GRP
Sweden	T 32	PT	38.5 std	F/VSmall	--	--	--	--	--	9.7	
Sweden	T 42	PT	40 std	F/VSmall	--	--	--	--	--	10	
Sweden	Tapper	PB	54 std	F/VSmall	-0.25	--	--	--	--	9.1	AAL
Sweden	Trossbåt	LCM	30 std	F/VSmall	-0.25	--	--	--	--	6.2	Amphib
Sweden	Type A11	SS	0 subm	D/Small	-0.50	12	23	35	41	46	Sub
Sweden	Type A11B	SS	0 subm	D/Small	-0.50	13	27	40	48	53	Sub
Sweden	Type A14	SS	0 subm	D/Small	-0.50	12	23	35	41	46	Sub
Sweden	Type A17	SS	0 subm	D/Small	-0.50	12	23	35	41	46	Sub
Sweden	Type A19	SSP	0 subm	D/Small	-0.50	14	28	42	50	56	Sub
Sweden	Type 61/72	PB	29 std	F/VSmall	--	--	--	--	--	8	
Sweden	UL 12	ML	200 std	E/VSmall	-0.25	--	--	--	--	22	ML
Sweden	Visby	PGG	0 fl	D/Small	-0.10	13	26	39	47	52	GRP
Syria	Ex-Russian Pr. 182 [P-6]	PT	61 std	F/VSmall	-0.10	--	--	--	--	12	Nat
Syria	Ex-Russian Pr. 183R [Komar]	PTG	66 std	F/VSmall	-0.10	--	--	--	--	13	Nat
Syria	Ex-Russian Pr. 205 [Osa I]	PTG	184 std	E/VSmall	-0.10	--	--	--	--	25	Nat
Syria	Ex-Russian Pr. 205U [Osa II]	PTG	215 std	E/VSmall	-0.10	--	--	--	--	28	Nat
Syria	Ex-Russian Pr. 771 [Polnocny B]	LST	740 std	D/Small	-0.35	11	23	34	41	45	Nat, Amphib
Syria	Russian Pr. 123K [P-4]	PT	22 std	F/VSmall	-0.10	--	--	--	--	6	Nat
Syria	Russian Pr. 159 [Petya I]	FFL	950 std	D/Small	-0.10	19	37	56	67	74	Nat
Syria	Russian Pr. 254 [T-43]	MSO	500 std	D/Small	-0.10	12	24	36	43	48	Nat
Syria	Russian Pr. 257D [Vanya I]	MSC	254 std	E/VSmall	-0.45	--	--	--	--	19	Nat, Wood
Syria	Russian Pr. 266M [Natya I]	PB	750 std	D/Small	-0.25	13	27	40	48	53	Nat, ALS

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Syria	Russian Pr. 633 [Romeo]	SS	0 subm	C/Small	-0.50	15	31	46	55	61	Sub
Syria	Russian Pr. 1258 [Vevgenya]	MSI	95 std	E/VSmall	-0.20	--	--	--	--	14	Nat, GRP
Syria	Russian Pr. 1265 [Sonya]	MSC	427 std	D/Small	-0.45	7	14	20	24	27	Nat, Wood
Syria	Russian Pr. 1400 Grif [Zhuk]	PC	36 std	F/VSmall	-0.35	--	--	--	--	6	Nat, AAL
Taiwan	Ex-US Adjutant	MSC	350 std	E/VSmall	-0.35	--	--	--	--	27	Wood
Taiwan	Ex-US Aggressive	MSO	720 std	D/Small	-0.35	11	22	33	40	44	Wood
Taiwan	Ex-US A.M. Sumner (Tien Shi)	DD	2000 std	C/Small		34	68	101	122	135	
Taiwan	Ex-US A.M. Sumner FRAM II (Wu Chin I mod 2)	DD	2350 std	C/Small	-0.15	32	64	96	115	128	ALS
Taiwan	Ex-US A.M. Sumner FRAM II (Wu Chin I mod 3)	DD	2200 std	C/Small	-0.15	31	62	92	111	123	ALS
Taiwan	Ex-US Anchorage	LSD	0 ltshp	B/Medium	-0.25	71	141	212	254	282	Amphib
Taiwan	Ex-US Cabildo	LSD	4790 std	C/Small	-0.25	46	91	137	164	182	Amphib
Taiwan	Ex-US Fletcher	DD	2100 std	C/Small		35	70	105	126	140	
Taiwan	Ex-US Gearing FRAM I (Tsu Yang)	DD	2500 std	C/Small	-0.15	33	67	100	120	133	ALS
Taiwan	Ex-US Gearing FRAM I (Wu Chin I Mod 1)	DD	2425 std	C/Small	-0.15	33	66	98	118	131	ALS
Taiwan	Ex-US Gearing FRAM I (Wu Chin I)	DD	2500 std	C/Small	-0.15	33	67	100	120	133	ALS
Taiwan	Ex-US Gearing FRAM I (Wu Chin II)	DD	2500 std	C/Small	-0.15	33	67	100	120	133	ALS
Taiwan	Ex-US Gearing FRAM I (Wu Chin II Mod)	DD	2425 std	C/Small	-0.15	33	66	98	118	131	ALS
Taiwan	Ex-US Gearing FRAM I (Wu Chin III)	DD	2500 std	C/Small	-0.15	33	67	100	120	133	ALS
Taiwan	Ex-US Guppy II	SS	0 subm	C/Small	-0.50	19	39	58	69	77	Sub
Taiwan	Ex-US Kidd	DDG	0 ltshp	B/Medium	-0.15	72	143	215	257	286	ALS
Taiwan	Ex-US Knox (2005)	FF	0 ltshp	C/Small	-0.15	42	84	126	151	168	ALS
Taiwan	Ex-US O.H. Perry	FFG	3660 std	C/Small	-0.15	43	86	129	155	172	ALS
Taiwan	Hai Ou	PTG	0 ltshp	F/VSmall	-0.25	--	--	--	--	9	AAL
Taiwan	Hsun Hai	PGG	550 std	D/Small	-0.50	7	15	22	26	29	MHull, AAL

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Taiwan	Jin Chiang	PTG	0 fl	D/Small		13	27	40	48	53	
Taiwan	Kuang Hua I	FFG	0 fl	C/Small	-0.15	42	85	127	152	169	ALS
Taiwan	Kuang Hua II	FFG	0 fl	C/Small		47	93	140	167	186	
Taiwan	Kuang Hua VI	PTG	171 std	E/VSmall		--	--	--	--	26	
Taiwan	Lung Chiang	PTG	218 std	E/VSmall		--	--	--	--	31	
Taiwan	MWV50	MSC	0 fl	D/Small	-0.35	8	16	23	28	31	Wood
Taiwan	Netherlands Mod Zwaardvis	SS	0 subm	C/Small	-0.50	21	41	62	74	82	Sub
Taiwan	Pan Shih	AOE	0 ltshp	B/Medium	-0.75	28	55	83	99	110	Aux
Taiwan	Tien Tan	FFG	0 fl	C/Small		51	101	152	182	202	
Taiwan	Wu Yi	AOR	0 ltshp	B/Medium	-0.25	68	136	203	244	271	Aux
Tanzaia	GDR Schwalbe	PC	0 fl	F/VSmall		--	--	--	--	13	
Tanzaia	North Korean Kimjim	PC	0 fl	F/VSmall	-0.10	--	--	--	--	7.4	Nat
Tanzaia	North Korean Nampo	PB	0 fl	F/VSmall	-0.10	--	--	--	--	13	Nat
Tanzaia	PRC Type 025/026 [Huchuan]	PT	39 std	F/VSmall	-0.10	--	--	--	--	8.8	Nat
Tanzaia	PRC Type 62 [Shanghai II]	PC	122 std	E/VSmall	-0.10	--	--	--	--	19	Nat
Tanzaia	Yugoslav Type 15	PC	0 fl	G/VSmall	-0.45	--	--	--	--	3.4	Nat, Wood
Thailand	Bangrachan	MSC	0 fl	D/Small	-0.10	10	20	30	36	40	GRP
Thailand	Chakri Nareubet	CVH	11485 std	B/Medium		109	217	326	391	434	
Thailand	Ex-US Cannon	FFT	1240 std	D/Small		25	49	74	88	98	
Thailand	Ex-US Knox	FF	0 ltshp	C/Small	-0.15	42	84	126	151	168	ALS
Thailand	Ex-US PF-103	PG	900 std	D/Small		20	40	59	71	79	
Thailand	Ex-US PGM-71	PC	130 std	E/VSmall		--	--	--	--	22	
Thailand	Ex-US Redwing	MSC	300 std	E/VSmall	-0.35	--	--	--	--	25	Wood
Thailand	Ex-US Tacoma	PS	1430 std	D/Small		27	54	81	97	108	

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Thailand	Khamrosin	PC	0 ltshp	D/Small		12	24	35	42	47	
Thailand	MV 400	PC	400 std	D/Small	-0.15	10	20	29	35	39	ALS
Thailand	Prabrarapak	PTG	224 std	E/VSmall		--	--	--	--	31	
Thailand	PRC Type 025T	FF	2500 std	C/Small	-0.10	35	71	106	127	141	Nat
Thailand	PRC Type 053HT	FF	1676 std	C/Small	-0.10	27	54	81	97	108	Nat
Thailand	PRC Type 053HT(H)	FF	1676 std	C/Small	-0.10	27	54	81	97	108	Nat
Thailand	PRC Type R22T [Fuqing]	AO	7500 std	B/Medium	-0.35	53	106	159	191	212	Nat, Aux
Thailand	PS-700	LST	3540 std	C/Small	-0.25	37	74	111	133	148	Aux
Thailand	Rantanakosin (PFMM-16)	PG	0 fl	D/Small		19	37	56	67	74	
Thailand	Ratcharit	PTG	235 std	E/VSmall		--	--	--	--	32	
Thailand	Sattahip (PSMM Mk5)	PC	270 std	E/VSmall		--	--	--	--	36	
Thailand	T 91	PC	0 fl	F/VSmall		--	--	--	--	15	
Thailand	T 93	PC	0 fl	E/VSmall		--	--	--	--	20	
Thailand	Thalang	MSC	1000 std	D/Small		21	43	64	77	85	
Thailand	Yarrow	FF	1650 std	C/Small		30	60	89	107	119	
Togo	Kara	PB	0 fl	F/VSmall	-0.45	--	--	--	--	7.8	Nat, Wood
Tonga	Austrailian ASI 315	PC	0 fl	E/VSmall	-0.25	--	--	--	--	17	AAL
Tonga	Australian LCM(8)	YFU	0 ltshp	F/VSmall	-0.25	--	--	--	--	7.3	Amphib
Tonga	Ex-French Punaruu	WAOT	0 ltshp	D/Small	-0.50	13	26	39	47	52	Civ
Trinidad and Tobago	103 foot	WPC	100 std	E/VSmall		--	--	--	--	18	
Trinidad and Tobago	31 foot Interceptor	WPB	20 std	G/VSmall	-0.25	--	--	--	--	4.7	AAL
Trinidad and Tobago	CG 40	WPC	0 fl	E/VSmall		--	--	--	--	27	

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Trinidad and Tobago	US Dauntless	WPB	12 std	G/VSmall	-0.25	--	--	--	--	3.3	AAL
Trinidad and Tobago	Wasp 17 meter	WPB	0 fl	G/VSmall	-0.10	--	--	--	--	4.9	GRP
Trinidad and Tobago	Wasp 20 meter	WPB	0 fl	F/VSmall	-0.10	--	--	--	--	6.9	GRP
Tunisia	103 foot	PC	100 std	E/VSmall		--	--	--	--	18	
Tunisia	Ex-US Adjutant	PC	350 std	E/VSmall	-0.35	--	--	--	--	27	Wood
Tunisia	Ex-US Savage	DER	1590 std	C/Small		29	58	87	104	116	
Tunisia	Fench P 48	PC	0 fl	E/VSmall		--	--	--	--	30	
Tunisia	French 25 meter	PC	39 std	F/VSmall		--	--	--	--	9.8	
Tunisia	French 32 meter	PC	60 std	F/VSmall	-0.35	--	--	--	--	8.5	Wood
Tunisia	French Combattante III	PTG	395 std	D/Small		12	23	35	41	46	
Tunisia	French Le Fougueux	PC	325 std	E/VSmall		--	--	--	--	40	
Tunisia	PRC Type 62 [Shanghai II]	PT	122 std	E/VSmall	-0.10	--	--	--	--	19	Nat
Tunisia	PRC Type 62-1	PC	0 fl	E/VSmall	-0.10	--	--	--	--	17	Nat
Turkey	AB 25 (i)	PC	150 std	E/VSmall		--	--	--	--	24	
Turkey	AB 25 (ii)	WPC	150 std	E/VSmall		--	--	--	--	24	
Turkey	Akar	AO	6000 std	B/Medium	-0.25	53	106	158	190	211	Aux
Turkey	Albay Hakki Burak	AOT	0 ltshp	C/Small	-0.25	31	62	92	111	123	Aux
Turkey	Aydin	MHC	500 std	D/Small		14	27	41	49	54	
Turkey	Barbaros	FF	3100 std	C/Small		45	91	136	163	181	
Turkey	Berk	FF	1450 std	D/Small		27	55	82	98	109	
Turkey	Binbasi Saasettin Gurcan	AOT	1505 std	C/Small	-0.25	21	42	63	76	84	Aux
Turkey	C 107	LCU	0 ltshp	E/VSmall	-0.25	--	--	--	--	28	Amphib
Turkey	C 139	LCU	0 ltshp	E/VSmall	-0.25	--	--	--	--	30	Amphib

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Turkey	C 205	LCU	320 std	E/VSmall	-0.25	--	--	--	--	30	Amphib
Turkey	Cakabey	LST	0 fl	D/Small	-0.25	20	39	59	70	78	Amphib
Turkey	Danish Falster	MM	0 fl	C/Small	-0.25	22	44	65	78	87	ML
Turkey	Dogan	PTG	353 std	D/Small	-0.15	9	18	27	32	36	ALS
Turkey	Dost	WPS	0 fl	D/Small		27	55	82	98	109	
Turkey	Ex-Canadian Bay	MSC	390 std	D/Small	-0.35	8	15	23	27	30	Wood
Turkey	Ex-French Circé	MHC	423 std	D/Small	-0.35	8	16	23	28	31	Wood
Turkey	Ex-French D'Estienne d'Orves	FFL	1100 std	D/Small		23	46	68	82	91	
Turkey	Ex-FRG Angeln	AGP/AS	2998 std	C/Small	-0.50	22	45	67	80	89	Civ
Turkey	Ex-FRG Bodensee	AOT	0 ltshp	D/Small	-0.25	20	40	60	72	80	Aux
Turkey	Ex-FRG Jaguar	PT	184 std	E/VSmall	-0.35	--	--	--	--	18	Wood
Turkey	Ex-FRG Klasse 401 Rhein	AXT	2370 std	C/Small	-0.25	29	57	86	103	114	Aux
Turkey	Ex-FRG Klasse 442B	AGI	1187 std	D/Small	-0.50	12	24	36	43	48	Civ
Turkey	Ex-FRG Koln	FF	2425 std	C/Small		39	77	116	139	154	
Turkey	Ex-FRG Mercure	MSC	366 std	D/Small	-0.35	7	14	21	25	28	Wood
Turkey	Ex-Norwegian Nasty	PT	70 std	F/VSmall	-0.35	--	--	--	--	9.4	Wood
Turkey	Ex-UK M class	DD	1920 std	C/Small		33	66	99	119	132	
Turkey	Ex-UK O Class	DD	1610 std	C/Small		29	59	88	105	117	
Turkey	Ex-US Adjutant	MSC	350 std	E/VSmall	-0.35	--	--	--	--	27	Wood
Turkey	Ex-US Allen M. Sumner	ML	2250 std	C/Small		37	73	110	131	146	
Turkey	Ex-US Allen M. Sumner FRAM II	DD	2200 std	C/Small	-0.15	31	62	92	111	123	ALS
Turkey	Ex-US Asheville	PC	225 std	E/VSmall	-0.25	--	--	--	--	24	AAL
Turkey	Ex-US Balao	SS	0 subm	C/Small	-0.50	19	39	58	69	77	Sub
Turkey	Ex-US Balao [Guppy IA]	SS	0 subm	C/Small	-0.50	19	39	58	69	77	Sub

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Turkey	Ex-US Balao [Guppy IIA]	SS	0 subm	C/Small	-0.50	19	39	58	69	77	Sub
Turkey	Ex-US Balao [Guppy III]	SS	0 subm	C/Small	-0.50	19	39	58	69	77	Sub
Turkey	Ex-US Carpenter	DD	2450 std	C/Small	-0.15	33	66	99	119	132	ALS
Turkey	Ex-US Cove	MSI	203 std	E/VSmall	-0.35	--	--	--	--	19	Wood
Turkey	Ex-US Dixie	AR	0 ltshp	B/Medium	-0.25	78	155	233	279	310	Aux
Turkey	Ex-US Fletcher	DD	2406 std	C/Small		38	77	115	138	153	
Turkey	Ex-US Gearing FRAM I	DD	2425 std	C/Small	-0.15	33	66	98	118	131	ALS
Turkey	Ex-US Gearing FRAM II	DD	2390 std	C/Small	-0.15	32	65	97	116	129	ALS
Turkey	Ex-US Gleaves	DD	1630 std	C/Small		30	59	89	106	118	
Turkey	Ex-US Knox	FF	0 ltshp	C/Small	-0.15	42	84	126	151	168	ALS
Turkey	Ex-US LSM 1	MM	74 std	F/VSmall	-0.25	--	--	--	--	11	ML
Turkey	Ex-US LST 542	MM	3640 std	C/Small	-0.25	38	76	113	136	151	Amphib
Turkey	Ex-US MCS 268	MSC	370 std	D/Small	-0.35	7	15	22	26	29	Wood
Turkey	Ex-US O.H. Perry (short hull)	FFG	2770 std	C/Small	-0.15	36	72	107	129	143	ALS
Turkey	Ex-US O.H. Perry (long hull)	FFG	3660 std	C/Small	-0.15	43	86	129	155	172	ALS
Turkey	Ex-US PGM 71	PC	104 std	E/VSmall		--	--	--	--	19	
Turkey	Ex-US Portunus	AGP	0 fl	C/Small	-0.25	37	74	110	132	147	Aux
Turkey	Ex-US Tang (2600 t)	SS	0 subm	C/Small	-0.50	20	41	61	73	81	Sub
Turkey	Ex-US Tang (2700 t)	SS	0 subm	C/Small	-0.50	21	42	62	75	83	Sub
Turkey	Ex-US Terrebone Parish	LST	0 ltshp	C/Small	-0.25	33	66	98	118	131	Amphib
Turkey	FRG Klasse 209/1200	SS	0 subm	D/Small	-0.50	13	25	38	45	50	Sub
Turkey	FRG Klasse 209/1400	SS	0 subm	C/Small	-0.50	15	29	44	52	58	Sub
Turkey	FRG Klasse 214TN	SSP	0 subm	C/Small	-0.50	16	32	48	58	64	Sub
Turkey	FRG PB 57	PC	341 std	E/VSmall		--	--	--	--	42	

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Turkey	FRT	AOR	0 fl	B/Medium	-0.25	104	207	311	373	414	Aux
Turkey	Heybeliada	FFL	0 fl	C/Small	-0.15	26	52	77	93	103	ALS
Turkey	Iskenderun	AP	0 grt	B/Medium	-0.50	43	85	128	153	170	Civ
Turkey	Kanarya	AK	0 fl	D/Small	-0.50	9	17	26	31	34	Civ
Turkey	Kartal	PT	184 std	E/VSmall	-0.35	--	--	--	--	18	Wood
Turkey	Kilic	PGG	0 fl	D/Small		13	26	38	46	51	
Turkey	KW 15	WPB	0 fl	F/VSmall		--	--	--	--	13	
Turkey	Mehmetcik	MM	0 fl	D/Small	-0.25	10	19	29	34	38	ML
Turkey	Modified Akar	AO	6000 std	B/Medium	-0.25	53	106	158	190	211	Aux
Turkey	MRTP 15	WPB	0 fl	G/VSmall		--	--	--	--	5.4	
Turkey	MRTP 29	WPB	0 fl	F/VSmall	-0.10	--	--	--	--	14	GRP
Turkey	MRTP 33	WPB	0 fl	E/VSmall	-0.10	--	--	--	--	17	GRP
Turkey	MSC 289 class	MSC	300 std	E/VSmall	-0.35	--	--	--	--	25	Wood
Turkey	Osman Gazi	LST	0 fl	C/Small	-0.25	35	70	104	125	139	Amphib
Turkey	SAR 33	WPC	0 ltshp	E/VSmall		--	--	--	--	26	
Turkey	Sarucabey	LST	0 fl	C/Small	-0.25	27	54	81	97	108	Amphib
Turkey	SG 71	WPC	0 fl	E/VSmall		--	--	--	--	27	
Turkey	SG 80	WPC	0 ltshp	E/VSmall		--	--	--	--	30	
Turkey	SNR-LST	LST	0 fl	C/Small	-0.25	50	100	149	179	199	Amphib
Turkey	Takizak	AOT	0 fl	D/Small	-0.25	18	37	55	66	73	Aux
Turkey	US LCM(8)	LCM	0 ltshp	F/VSmall	-0.25	--	--	--	--	7.3	Amphib
Turkey	US PC 1638	PC	325 std	E/VSmall		--	--	--	--	40	
Turkey	Yavuz	FF	2414 std	C/Small		38	77	115	138	153	
Turkey	Yildiz	PTG	387 std	D/Small	-0.15	10	19	29	34	38	ALS

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Turkey	YTKB-400	PC	0 fl	E/VSmall	--	--	--	--	--	41	
Turkey	Yuzbasi Tolunay	AOT	2500 std	C/Small	-0.25	30	59	89	106	118	Aux
Turkmenistan	Ex-Russian Pr. 1205 [Gus]	LCPA	27 std	F/VSmall	-0.45	--	--	--	--	4.2	Amphib, ACV
Turks and Caicos	Dagger	PC	8 std	G/VSmall	--	--	--	--	--	3.4	
Turks and Caicos	M 160	PC	17 std	G/VSmall	--	--	--	--	--	5.6	
Tuvalu	Australian ASI 315	PC	0 fl	E/VSmall	--	--	--	--	--	23	
Uganda	DPRK Kimjin	WPB	0 fl	F/VSmall	-0.35	--	--	--	--	4.2	Nat, AAL
Uganda	Yugoslav Type AL8K	WPB	0 fl	G/VSmall	--	--	--	--	--	2.5	
UK	"Ham" class	MS	120 std	E/VSmall	-0.35	--	--	--	--	13	Wood
UK	"Ley" class	MS	123 std	E/VSmall	-0.10	--	--	--	--	19	GRP
UK	"OI" class	AO	0 grt	B/Medium	-0.25	65	130	194	233	259	Aux
UK	A class	SS	0 subm	C/Small	-0.50	15	30	44	53	59	Sub
UK	Abdiel (i)	ML	2650 std	C/Small		41	82	122	147	163	
UK	Abdiel (ii)	MSH	1375 std	D/Small		26	53	79	95	105	
UK	Adamant	AS	12700 std	B/Medium	-0.25	87	174	261	313	348	Aux
UK	Albion (i)	CV	22000 std	A/Large		168	335	503	603	670	
UK	Albion (ii)	LPD	14600 std	B/Medium	-0.25	96	191	287	344	382	Amphib
UK	Alvega	Tank	0 grt	A/Large	-0.50	91	183	274	329	365	Civ
UK	Anco Charger	Tank	0 grt	B/Medium	-0.50	55	110	164	197	219	Civ
UK	Anzio	LST(A)	2140 std	C/Small	-0.25	27	53	80	95	106	Amphib
UK	Appleleaf	AO	0 grt	B/Medium	-0.50	65	130	195	234	260	Civ
UK	Ardennes	LSM	870 std	D/Small	-0.25	15	29	44	52	58	Amphib
UK	Argus	AGH	0 ltshp	A/Large	-0.35	119	238	357	428	476	MCnv
UK	Ark Royal	CV	43060 std	A/Large		262	524	786	943	1048	

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
UK	Astute	SSN	0 subm	B/Medium	-0.50	38	77	115	138	153	Sub
UK	Atlantic Conveyor	Merch	0 grt	B/Medium	-0.50	54	107	161	193	214	Civ
UK	Bacchus	AK	0 ltshp	C/Small	-0.25	34	68	102	122	136	Aux
UK	Baltic Ferry	Merch	0 grt	C/Small	-0.50	31	61	92	110	122	Civ
UK	Battle (Groups I & II)	DD	2325 std	C/Small		38	75	113	135	150	
UK	Battle (Later Group DDR)	DDR	2780 std	C/Small		42	84	126	151	168	
UK	Battle (Later Group)	DD	2780 std	C/Small		42	84	126	151	168	
UK	Bay class	FF	1537 std	C/Small		28	57	85	102	113	
UK	Belfast	CL	10550 std	B/Medium		103	205	308	369	410	
UK	Black Swan	FF	1490 std	D/Small		28	56	83	100	111	
UK	Type 14 (Blackwood)	FF	1180 std	D/Small		24	48	71	86	95	
UK	Britannia	Yacht	0 grt	C/Small	-0.25	43	85	128	153	170	Aux
UK	British Avon	Tank	0 grt	B/Medium	-0.50	55	110	164	197	219	Civ
UK	British Esk	Tank	0 grt	B/Medium	-0.50	55	110	165	198	220	Civ
UK	British Fern	Tank	0 grt	B/Medium	-0.50	49	99	148	177	197	Civ
UK	Bulwark	CV	22000 std	A/Large		168	335	503	603	670	
UK	Ca/Ch class	DD	2675 std	C/Small		41	82	123	148	164	
UK	Canberra	Liner	0 grt	A/Large	-0.50	111	222	333	400	444	Civ
UK	Castle	PG	1350 std	D/Small		26	52	78	94	104	
UK	Centaur	CV	18300 std	A/Large		148	296	444	533	592	
UK	Contender Bezant	Cont	0 grt	B/Medium	-0.50	45	90	134	161	179	Civ
UK	County	DDG	6200 std	B/Medium		72	144	216	259	288	
UK	Daring	DD	2830 std	C/Small		43	86	128	154	171	
UK	Dark Adventurer	PT	50 std	F/VSmall	-0.35	--	--	--	--	7.5	Wood

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
UK	Dieppe	LST(3)	2140 std	C/Small	-0.25	27	53	80	95	106	Amphib
UK	Diligence	AR	0 grt	C/Small	-0.25	46	93	139	167	185	Aux
UK	Dodman Point	AR	8580 std	B/Medium	-0.25	67	134	201	241	268	Aux
UK	Dreadnought	SSN	0 subm	C/Small	-0.50	27	54	80	96	107	Sub
UK	Eagle (1964)	CV	43000 std	A/Large		262	524	785	942	1047	
UK	Eburna	Tank	0 grt	B/Medium	-0.50	64	129	193	231	257	Civ
UK	Eddybay	AO	0 grt	C/Small	-0.50	15	31	46	55	61	Civ
UK	Elk	Ro-Ro	0 grt	C/Small	-0.50	27	55	82	98	109	Civ
UK	Endurance (i)	PS	0 fl	C/Small	-0.25	34	68	101	122	135	Aux
UK	Endurance (ii)	PS	0 fl	B/Medium	-0.25	50	100	150	180	200	Aux
UK	Engadine	AAH	3640 std	C/Small	-0.25	38	76	113	136	151	Aux
UK	Europic Ferry	Ro-Ro	0 grt	C/Small	-0.50	23	46	68	82	91	Civ
UK	Fearless	LPD	11582 std	B/Medium	-0.25	82	164	245	294	327	Amphib
UK	Fiji	CL	10550 std	B/Medium		103	205	308	369	410	
UK	Forrest	Coast	0 grt	E/VSmall	-0.50	--	--	--	--	9.7	Civ
UK	Fort (i)	AFS	0 ltshp	C/Small	-0.25	42	83	125	149	166	Aux
UK	Fort (ii)	AE	0 grt	B/Medium	-0.25	84	168	252	302	336	Aux
UK	Fort Toronto	Tank	0 grt	B/Medium	-0.50	65	130	194	233	259	Civ
UK	Fort Victoria	AOR	13550 std	B/Medium	-0.25	91	182	272	327	363	Aux
UK	G. A. Walker	Tank	0 grt	B/Medium	-0.50	62	124	186	223	248	Civ
UK	Geetsport	Reefer	0 grt	B/Medium	-0.50	35	69	104	124	138	Civ
UK	Hartland Point	AK	0 grt	B/Medium	-0.50	71	142	213	256	284	Civ
UK	Hecla	AGOR	0 ltshp	C/Small	-0.25	27	54	80	96	107	Aux
UK	Hermes (23000 t)	CV	23000 std	A/Large		173	345	518	621	690	

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
UK	Hermes (23900 t)	CV	23900 std	A/Large		177	354	531	637	708	
UK	Hunt	MH	625 std	D/Small	-0.10	14	28	42	50	56	GRP
UK	Invincible	CVH	16970 std	B/Medium		141	282	422	507	563	
UK	Island	PG	1000 std	D/Small		21	43	64	77	85	
UK	Kingfisher	PC	187 std	E/VSmall		--	--	--	--	28	
UK	Largs Bay	LSD	0 fl	B/Medium	-0.40	73	147	220	264	293	MStd90, Amphib
UK	Leander	FF	2350 std	C/Small		38	76	113	136	151	
UK	Leander/1 (Ikara)	FF	2450 std	C/Small		39	78	116	140	155	
UK	Leander/2 (Exocet)	FF	2790 std	C/Small		42	85	127	152	169	
UK	Leander/3 (Broad-Beamed)	FF	2500 std	C/Small		39	79	118	141	157	
UK	Leander/3A (Sea Wolf)	FF	2500 std	C/Small		39	79	118	141	157	
UK	Loch class	FF	1435 std	D/Small		27	54	81	97	108	
UK	Lycaon	Merch	0 grt	B/Medium	-0.50	64	129	193	231	257	Civ
UK	Lyness	AVS	0 ltshp	B/Medium	-0.25	75	150	225	270	300	Aux
UK	Maidstone	AR	8900 std	B/Medium	-0.25	69	138	206	248	275	Aux
UK	Meon	LSH	1570 std	C/Small	-0.25	22	43	65	77	86	MStd
UK	Mermaid	FF	2300 std	C/Small		37	74	111	133	148	
UK	Messina	LST(C)	2140 std	C/Small	-0.25	27	53	80	95	106	Amphib
UK	Mull of Galloway	AR	8500 std	B/Medium	-0.25	67	133	200	239	266	Aux
UK	Norland	Ro-Ro	0 grt	B/Medium	-0.50	49	97	146	175	194	Civ
UK	O class (Limited conversion)	FF	1800 std	C/Small		32	63	95	113	126	
UK	Oakleaf	AO	0 grt	A/Large	-0.50	75	149	224	268	298	Civ
UK	Oberon	SS	0 subm	C/Small	-0.50	19	39	58	69	77	Sub
UK	Ocean	LPH	0 fl	A/Large	-0.15	126	252	378	454	504	MStd90

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
UK	P class (Limited conversion)	FF	1800 std	C/Small		32	63	95	113	126	
UK	Peacock	PC	690 std	D/Small		17	34	50	60	67	
UK	Plumleaf	AO	0 grt	B/Medium	-0.25	71	142	213	256	284	Aux
UK	Porpoise	SS	0 subm	C/Small	-0.50	19	37	56	67	74	Sub
UK	Queen Elizabeth	CVA	50800 std	A/Large		293	585	878	1053	1170	
UK	Queen Elizabeth II	Liner	0 grt	A/Large	-0.50	146	291	437	524	582	Civ
UK	R class (Full conversion)	FF	2030 std	C/Small		34	69	103	123	137	
UK	Rame Head	AR	9000 std	B/Medium	-0.25	69	139	208	249	277	Aux
UK	Redoubt	LCT(8)	0 ltshp	D/Small	-0.25	13	26	39	47	52	Amphib
UK	Reliant (ii)	AVS	0 grt	A/Large	-0.50	81	162	243	292	324	Civ
UK	Resolution	SSBN	0 subm	B/Medium	-0.50	45	89	134	160	178	Sub
UK	Resource	AFS	0 grt	B/Medium	-0.25	91	182	272	327	363	Aux
UK	Retainer	AE	0 grt	B/Medium	-0.25	59	117	176	211	234	Aux
UK	River (i)	MS	630 std	D/Small	-0.25	12	24	35	42	47	MStd
UK	River (ii)	PB	0 fl	C/Small	-0.15	24	48	72	86	96	MStd90
UK	Rover	AOR	0 ltshp	C/Small	-0.25	49	98	146	176	195	Aux
UK	Sandown	MH	378 std	D/Small	-0.10	10	20	30	36	40	GRP
UK	Saxonia	Reefer	0 grt	B/Medium	-0.50	46	93	139	167	185	Civ
UK	Scimitar	PC	0 fl	E/VSmall	-0.35	--	--	--	--	11	Wood
UK	Scottish Eagle	Tank	0 grt	A/Large	-0.50	91	181	272	326	362	Civ
UK	Sea Crusader	AK	0 grt	B/Medium	-0.50	73	147	220	264	293	Civ
UK	Shalford	PC	120 std	E/VSmall		--	--	--	--	21	
UK	Sheffield	CL	9100 std	B/Medium		93	186	279	335	372	
UK	Sir Bedivere (Alum)	LST	0 ltshp	C/Small	-0.65	18	37	55	66	73	MStd, Amphib, ALS

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
UK	Sir Bedivere (Steel)	LST	0 ltshp	C/Small	-0.50	26	52	78	94	104	MStd, Amphib
UK	Sir Caradoc	LST	0 grt	D/Small	-0.50	14	27	41	49	54	Civ
UK	Sir Galahad	LST	0 ltshp	B/Medium	-0.25	66	132	197	237	263	Amphib
UK	St. Edmund	Ro-Ro	0 grt	B/Medium	-0.50	38	76	114	137	152	Civ
UK	Swiftsure (1960) (i)	CL	8800 std	B/Medium		91	182	272	327	363	
UK	Swiftsure (ii)	SSN	0 subm	C/Small	-0.50	31	62	92	111	123	Sub
UK	T class	SS	0 subm	D/Small	-0.50	13	26	38	46	51	Sub
UK	T class (Full conversion)	FF	2300 std	C/Small		37	74	111	133	148	
UK	T class (Limited conversion)	FF	2000 std	C/Small		34	68	101	122	135	
UK	T class Conversion	SS	0 subm	C/Small	-0.50	15	31	46	55	61	Sub
UK	T class Streamline Conversion	SS	0 subm	C/Small	-0.50	15	29	44	52	58	Sub
UK	Tide	AO	0 grt	B/Medium	-0.25	66	132	198	238	264	Aux
UK	Tide (Later)	AO	0 ltshp	B/Medium	-0.25	73	145	218	261	290	Aux
UK	Tiger	CL	11700 std	B/Medium		110	220	329	395	439	
UK	Ton	MS	360 std	D/Small	-0.35	7	14	21	25	28	Wood
UK	Tor Caledonia	Ro-Ro	0 grt	C/Small	-0.50	26	52	78	94	104	Civ
UK	Trafalgar	SSN	0 subm	C/Small	-0.50	32	64	96	115	128	Sub
UK	Triumph	AR	13190 std	B/Medium		119	238	357	428	476	
UK	Tyne	AD	11000 std	B/Medium	-0.25	79	158	237	284	316	Aux
UK	Type 12 (Whitby)	FF	2150 std	C/Small		36	71	107	128	142	
UK	Type 12 mod (Rothesay)	FF	2380 std	C/Small		38	76	114	137	152	
UK	Type 15 (Urania)	FF	2240 std	C/Small		37	73	110	131	146	
UK	Type 16 (Terpsichore)	FF	1793 std	C/Small		32	63	95	113	126	
UK	Type 21 (Amazon) (3100 t)	FF	3100 std	C/Small	-0.15	39	77	116	139	154	ALS

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
UK	Type 21 (Amazon) (3210 t)	FF	3210 std	C/Small	-0.15	40	79	119	142	158	ALS
UK	Type 22/1 (Broadsword)	FF	3900 std	C/Small		53	106	158	190	211	
UK	Type 22/2 (Boxer)	FF	4250 std	C/Small		56	112	168	202	224	
UK	Type 22/3 (Cornwall)	FF	4280 std	C/Small		56	113	169	203	225	
UK	Type 23 (Norfolk)	FF	3500 std	C/Small		49	98	147	176	196	
UK	Type 41 (Leopard)	FF	2300 std	C/Small		37	74	111	133	148	
UK	Type 42A & B	DDG	3560 std	C/Small		50	100	149	179	199	
UK	Type 42C (Manchester)	DDG	3880 std	C/Small		53	105	158	189	210	
UK	Type 43	DDG	0 fl	C/Small		63	127	190	228	253	
UK	Type 45	DDG	5800 std	B/Medium		69	138	206	248	275	
UK	Type 61 (Salisbury)	FF	2170 std	C/Small		36	72	107	129	143	
UK	Type 81 (Tribal)	FF	2300 std	C/Small		37	74	111	133	148	
UK	Type 82 (Bristol)	DDG	6700 std	B/Medium		76	152	227	273	303	
UK	U class (Full conversion)	FF	2200 std	C/Small		36	72	108	130	144	
UK	Uganda	Liner	0 grt	B/Medium	-0.50	58	116	174	209	232	Civ
UK	Upholder	SS	0 subm	C/Small	-0.50	19	38	57	68	76	Sub
UK	V class (Full conversion)	FF	2100 std	C/Small		35	70	105	126	140	
UK	Valiant	SSN	0 subm	C/Small	-0.50	31	62	92	111	123	Sub
UK	Vanguard	SSBN	0 subm	B/Medium	-0.50	67	135	202	242	269	Sub
UK	Victorious (1958)	CV	30530 std	A/Large		208	417	625	750	833	
UK	W class (Full conversion)	FF	2100 std	C/Small		35	70	105	126	140	
UK	Wave Baron	AO	8200 std	B/Medium	-0.50	43	87	130	156	173	Civ
UK	Wave Knight	AO	0 fl	A/Large	-0.25	143	287	430	516	573	Aux
UK	Weapon	DDR	2280 std	C/Small		37	74	111	133	148	

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
UK	Z class (Full conversion)	FF	2300 std	C/Small		37	74	111	133	148	
Ukraine	Ex-Russian Dubna	AO	0 ltshp	C/Small	-0.35	40	80	119	143	159	Nat, Aux
Ukraine	Ex-Russian Keyla	AK	0 fl	C/Small	-0.35	20	40	60	72	80	Nat, Aux
Ukraine	Ex-Russian Khobi	AO	690 std	D/Small	-0.50	8	17	25	30	33	Civ
Ukraine	Ex-Russian Pr. 133 [Muravey]	WPCH	195 std	E/VSmall	-0.35	--	--	--	--	19	Nat, AAL
Ukraine	Ex-Russian Pr. 159A [Petya II]	FFL	950 std	D/Small	-0.10	19	37	56	67	74	Nat
Ukraine	Ex-Russian Pr. 159AE [Petya III]	FFL	950 std	D/Small	-0.10	19	37	56	67	74	Nat
Ukraine	Ex-Russian Pr. 205P [Stneka]	WPC	211 std	E/VSmall	-0.10	--	--	--	--	27	Nat
Ukraine	Ex-Russian Pr. 266 [Yurka]	MSF	520 std	D/Small	-0.35	9	18	27	32	36	Nat, AAL
Ukraine	Ex-Russian Pr. 266M [Natya I]	MSF	750 std	D/Small	-0.25	13	27	40	48	53	Nat, Alum
Ukraine	Ex-Russian Pr. 304 [Amur]	AGF	4000 std	C/Small	-0.35	35	70	105	126	140	Nat, Alum
Ukraine	Ex-Russian Pr. 641 [Foxtrot]	SS	0 subm	C/Small	-0.50	20	39	59	70	78	Sub
Ukraine	Ex-Russian Pr. 774 [Polnocny C]	LSM	980 std	D/Small	-0.35	14	28	41	50	55	Nat, Amphib
Ukraine	Ex-Russian Pr. 775 [Ropucha]	LST	0 ltshp	C/Small	-0.35	30	59	89	106	118	Nat, Amphib
Ukraine	Ex-Russian Pr. 861M [Moma]	AGI	1260 std	D/Small	-0.10	22	45	67	80	89	Nat
Ukraine	Ex-Russian Pr. 1124 Albatros [Grisha I]	FFL	850 std	D/Small	-0.10	17	35	52	62	69	Nat
Ukraine	Ex-Russian Pr. 1124A [Grisha II]	FFL	850 std	D/Small	-0.10	17	35	52	62	69	Nat
Ukraine	Ex-Russian Pr. 1124EhM [Grisha V]	FFL	910 std	D/Small	-0.10	18	36	54	65	72	Nat
Ukraine	Ex-Russian Pr. 1124M [Grsiha III]	FFL	860 std	D/Small	-0.10	17	35	52	62	69	Nat
Ukraine	Ex-Russian Pr. 1124P [Grisha II]	WFFL	850 std	D/Small	-0.10	17	35	52	62	69	Nat
Ukraine	Ex-Russian Pr. 1135 Burevestnik [Krivak I]	FF	3070 std	C/Small	-0.10	41	81	122	146	162	Nat
Ukraine	Ex-Russian Pr. 1135.1 [Krivak III]	FF	3300 std	C/Small	-0.10	43	85	128	153	170	Nat, Alum
Ukraine	Ex-Russian Pr. 1135M Burevestnik-M [Krivak II]	FF	3170 std	C/Small	-0.25	35	69	104	124	138	Nat, Alum
Ukraine	Ex-Russian Pr. 1171 [Alligator]	LST	2905 std	C/Small	-0.35	28	57	85	102	113	Nat, Amphib

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Ukraine	Ex-Russian Pr. 1231.1/2 [Tarantul II]	PTG	436 std	D/Small	-0.25	9	19	28	33	37	Nat, Alum
Ukraine	Ex-Russian Pr. 1241.1RZ [Tarantul III]	PTG	477 std	D/Small	-0.25	10	20	29	35	39	Nat, Alum
Ukraine	Ex-Russian Pr. 1241.2 [Pauk I]	PC	425 std	D/Small	-0.10	11	22	32	39	43	Nat
Ukraine	Ex-Russian Pr. 1258 [Yevgenya]	MSI	95 std	E/VSmall	-0.20	--	--	--	--	14	Nat, GRP
Ukraine	Ex-Russian Pr. 1265 [Sonya]	MSC	427 std	D/Small	-0.45	7	14	20	24	27	Nat, Wood
Ukraine	Ex-Russian Pr. 12884 [Mod Kamchatka]	AGF	4460 std	C/Small	-0.35	38	75	113	135	150	Nat, Aux
Ukraine	Ex-Russian Pr. 1400 Grif [Zhuk]	PC	36 std	F/VSmall	-0.35	--	--	--	--	6	Nat, AAL
Ukraine	Ex-Russian Pr. 15559V [Boris Chilikin]	AFS	0 ltshp	B/Medium	-0.35	55	110	164	197	219	Nat, Aux
Ukraine	Ex-Russian Pr. 1823 [Muna]	AE	457 std	D/Small	-0.45	7	14	21	25	28	Aux
Ukraine	Project 58250	FFL	2500 std	C/Small		39	79	118	141	157	
Ukraine	Russian Pr. 206MPR [Matka]	PTGH	220 std	E/VSmall	-0.25	--	--	--	--	23	Nat, ALS
Ukraine	Russian Pr. 1232.2 Zubur [Pomornik]	LCUA	340 std	E/VSmall	-0.55	--	--	--	--	19	Nat, Amphib, ACV
Ukraine	Russian Pr. 1918 [Vytegrales]	AK	4900 std	C/Small	-0.35	40	80	120	144	160	Nat, Aux
UAE	Baynunah	PGG	0 fl	D/Small		16	33	49	59	65	
UAE	Ex-Australian Bay	MHC	100 std	E/VSmall	-0.10	--	--	--	--	17	GRP
UAE	Ex-FRG Klasse 332	MHC	590 std	D/Small		15	30	45	54	60	
UAE	Ex-Nethl. Kortenaer	FF	3000 std	C/Small		44	89	133	159	177	
UAE	FPB 44	PTG	210 std	E/VSmall		--	--	--	--	30	
UAE	FPB 65	PGG	590 std	D/Small		15	30	45	54	60	
UAE	Ghannatha	LCVP	30 std	F/VSmall	-0.25	--	--	--	--	6.2	Amphib
UAE	Italy Mod Commandante	FF	0 ltshp	C/Small		32	65	97	116	129	
UAE	TNC-45	PTG	231 std	E/VSmall		--	--	--	--	32	
UAE	Vosper 110 ft	PB	110 std	E/VSmall		--	--	--	--	20	
Uruguay	Ex-US Auk	FFL	890 std	D/Small		20	40	59	71	79	

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Uruguay	Ex-US Cannon	FF	0 ltshp	D/Small		27	54	80	96	107	
Uruguay	Ex-US Dealey	DE	1450 std	D/Small	-0.15	23	47	70	84	93	ALS
Uruguay	French Commandant Riviere	FF	2070 std	C/Small		35	69	104	124	138	
Uruguay	French Vigilante	PB	166 std	E/VSmall		--	--	--	--	26	
USA	Ability	MSO	801 std	D/Small	-0.35	12	24	36	43	48	Wood
USA	Acme	MSO	720 std	D/Small	-0.35	11	22	33	40	44	Wood
USA	Active (125')	WSC	220 std	E/VSmall		--	--	--	--	31	
USA	Admiral W.M. Callaghan	Ro-Ro	0 ltshp	B/Medium	-0.50	65	129	194	232	258	Civ
USA	Agile	MSO	755 std	D/Small	-0.35	12	23	35	41	46	Wood
USA	Air-Capable Spruance	DDH	7000 std	B/Medium	-0.15	66	133	199	239	265	Alum
USA	Albatross	MSC	270 std	E/VSmall	-0.35	--	--	--	--	23	Wood
USA	Allagash	AO	0 ltshp	B/Medium	-0.25	65	130	195	234	260	Aux
USA	Allen M. Sumner	DD	2535 std	C/Small		40	79	119	142	158	
USA	Allen M. Sumner FRAM II	DD	2746 std	C/Small	-0.15	36	71	107	128	142	Alum
USA	Altair	Ro-Ro	0 ltshp	A/Large	-0.50	108	215	323	387	430	Civ
USA	Algol	Ro-Ro	0 ltshp	A/Large	-0.50	112	223	335	401	446	Civ
USA	America	LHA	0 ltshp	A/Large	-0.25	220	439	659	790	878	Amphib
USA	American Cormorant	AK	0 grt	B/Medium	-0.50	41	83	124	149	165	Civ
USA	Anchorage	LSD	0 ltshp	B/Medium	-0.25	71	141	212	254	282	Amphib
USA	Andromeda	AKA	0 ltshp	B/Medium	-0.25	61	122	182	219	243	Aux
USA	Arcadia	AD	8165 std	B/Medium	-0.25	65	130	194	233	259	Aux
USA	Argo (165')	WPC	337 std	E/VSmall		--	--	--	--	41	
USA	Arleigh Burke (DDG 51)	DDG	0 ltshp	B/Medium		82	163	245	293	326	
USA	Arleigh Burke (DDG 52 - 71)	DDG	0 ltshp	B/Medium		83	165	248	297	330	

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
USA	Arleigh Burke (DDG 72 - 78)	DDG	0 ltshp	B/Medium		84	168	252	302	336	
USA	Arleigh Burke IIA	DDG	7500 std	B/Medium		82	164	245	294	327	
USA	ASDS	SS	0 subm	F/VSmall	-0.50	1.6	3.3	4.9	5.9	6.5	Sub
USA	Asheville	PTG	225 std	E/VSmall	-0.15	--	--	--	--	27	Alum
USA	Ashland	LSD	4790 std	C/Small	-0.25	46	91	137	164	182	Amphib
USA	Ashtabula	AO	0 fl	A/Large	-0.25	151	301	452	542	602	Aux
USA	Austin	LPD	11050 std	B/Medium	-0.25	79	159	238	285	317	Amphib
USA	Avenger	MHS	0 fl	D/Small	-0.35	16	32	48	58	64	Wood
USA	Bainbridge	CGN	7600 std	B/Medium	-0.15	70	140	210	252	280	Alum
USA	Balao (SSG)	SSG	0 subm	C/Small	-0.50	19	39	58	69	77	Sub
USA	Balao (SSR)	SSR	0 subm	C/Small	-0.50	19	37	56	67	74	Sub
USA	Balao (APSS)	APSS	0 subm	C/Small	-0.50	19	39	58	69	77	Sub
USA	Balsam (180')	WLB	935 std	D/Small		20	41	61	73	81	
USA	Ballistic Missile Defense Ship	CG?	19000 std	A/Large		152	304	455	546	607	
USA	Baltimore	CA	13600 std	B/Medium		122	243	365	437	486	
USA	Baltimore/Oregon City	CG	13700 std	B/Medium	-0.15	104	208	311	374	415	Alum
USA	Barbel	SS	0 subm	C/Small	-0.50	20	41	61	73	81	Sub
USA	Barnegat	AVP	1766 std	C/Small	-0.25	23	47	70	84	93	Aux
USA	Barracuda (ex-K class)	SS	0 subm	D/Small	-0.50	12	24	35	42	47	Sub
USA	Barrett	T-AP	17600 std	B/Medium	-0.50	72	145	217	260	289	Civ
USA	Bayfield	APA	0 ltshp	B/Medium	-0.50	47	94	140	168	187	Civ
USA	Belknap	CG	6570 std	B/Medium	-0.15	64	127	191	229	254	Alum
USA	Berthoff	WMSL	0 ltshp	C/Small		63	126	189	227	252	
USA	Big Black River	LST	994 std	D/Small	-0.25	16	32	48	58	64	Amphib

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
USA	Blue Ridge	LCC	16790 std	B/Medium		140	280	419	503	559	
USA	Bluebird	MSC	0 ltshp	D/Small	-0.35	7	14	21	25	28	Wood
USA	Bob Hope	AK	0 ltshp	A/Large	-0.50	122	245	367	440	489	Civ
USA	Bogue	T-AKV	9800 std	B/Medium		98	195	293	351	390	
USA	Bolster	ARS	1530 std	C/Small	-0.25	21	43	64	77	85	Aux
USA	Boston	CAG	14480 std	B/Medium		127	254	380	456	507	
USA	Bronstein	DE/FF	2360 std	C/Small	-0.15	32	64	96	115	128	Alum
USA	Brooke	DEG/FFG	2640 std	C/Small	-0.15	35	69	104	124	138	Alum
USA	Buckley (TE Type)	DE	1400 std	D/Small		27	54	80	96	107	
USA	Bunker Hill	CG	0 ltshp	B/Medium	-0.15	74	148	221	266	295	Alum
USA	Bunker Hill (CMP)	CG	0 ltshp	B/Medium	-0.15	74	148	221	266	295	Alum
USA	Cache	AO	0 ltshp	B/Medium	-0.25	56	111	167	200	222	Aux
USA	Caddo Parish	LST	0 ltshp	C/Small	-0.25	26	51	77	92	102	Amphib
USA	California	CGN	0 ltshp	B/Medium	-0.15	89	179	268	321	357	Alum
USA	Campbell (327')	WPG	2216 std	C/Small		36	73	109	131	145	
USA	Cannon	DE	1240 std	D/Small		25	49	74	88	98	
USA	Cape (95') A-class	WPB	105 std	E/VSmall		--	--	--	--	19	
USA	Cape (95') B-class	WPB	105 std	E/VSmall		--	--	--	--	19	
USA	Cape (95') C-class	WPB	105 std	E/VSmall		--	--	--	--	19	
USA	Cape Banker	WAK	0 grt	C/Small	-0.50	30	61	91	109	121	Civ
USA	Cape Carthage	WAK	0 grt	C/Small	-0.50	31	62	93	112	124	Civ
USA	Cape Commander	WAK	0 grt	B/Medium	-0.50	36	72	107	129	143	Civ
USA	Cape D class	Ro-Ro	0 ltshp	B/Medium	-0.50	65	130	194	233	259	Civ
USA	Cape E class	Ro-Ro	0 ltshp	B/Medium	-0.50	63	125	188	225	250	Civ

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
USA	Cape F class	LASH	0 ltshp	A/Large	-0.50	74	147	221	265	294	Civ
USA	Cape H class	Ro-Ro	0 ltshp	B/Medium	-0.50	70	141	211	253	281	Civ
USA	Cape I class	Ro-Ro	0 ltshp	B/Medium	-0.50	70	141	211	253	281	Civ
USA	Cape K class	Ro-Ro	0 ltshp	B/Medium	-0.50	73	145	218	261	290	Civ
USA	Cape M class	AKR	0 ltshp	A/Large	-0.50	82	164	246	295	328	Civ
USA	Cape O class	Ro-Ro	0 ltshp	B/Medium	-0.50	65	129	194	232	258	Civ
USA	Cape R class	Ro-Ro	0 ltshp	B/Medium	-0.50	63	127	190	228	253	Civ
USA	Cape T class	Ro-Ro	0 ltshp	B/Medium	-0.50	53	105	158	189	210	Civ
USA	Cape T class (Cape Trinity)	Ro-Ro	0 ltshp	B/Medium	-0.50	61	122	183	220	244	Civ
USA	Cape V class	Ro-Ro	0 ltshp	B/Medium	-0.50	56	112	167	201	223	Civ
USA	Cape W class	Ro-Ro	0 ltshp	A/Large	-0.50	91	181	272	326	362	Civ
USA	Capella	Ro-Ro	0 ltshp	A/Large	-0.50	114	228	342	410	456	Civ
USA	Carpenter	DDK	2637 std	C/Small		41	82	122	147	163	
USA	Carronade	IFS	1040 std	D/Small		22	44	65	78	87	
USA	Casa Grande	LSD	4790 std	C/Small	-0.25	46	91	137	164	182	Amphib
USA	Casablanca	LPH	8000 std	B/Medium		85	171	256	307	341	
USA	Charles F. Adams	DDG	3350 std	C/Small	-0.15	41	81	122	146	162	Alum
USA	Charleston	AKA	0 ltshp	B/Medium	-0.25	100	199	299	358	398	Aux
USA	Cherokee/Navjo	WMEC	1731 std	C/Small		31	62	92	111	123	
USA	Chevalier	DD	2699 std	C/Small	-0.15	35	70	105	126	140	Alum
USA	Cimarron	AO	12500 std	B/Medium	-0.25	86	172	258	310	344	Aux
USA	Claud Jones	DE	1450 std	D/Small	-0.15	23	47	70	84	93	Alum
USA	Cleveland (Talos Cmd)	CLG	11280 std	B/Medium	-0.15	91	183	274	329	365	Alum
USA	Cleveland (Talos)	CLG	11280 std	B/Medium	-0.15	91	183	274	329	365	Alum

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
USA	Cleveland (Terrier Cmd)	CLG	11280 std	B/Medium	-0.15	91	183	274	329	365	Alum
USA	Cleveland (Terrier)	CLG	11280 std	B/Medium	-0.15	91	183	274	329	365	Alum
USA	Comet	WAK	0 grt	B/Medium	-0.50	51	101	152	182	202	Civ
USA	Commencement Bay	AKV	11373 std	B/Medium		108	216	323	388	431	
USA	Constitution	Frigate	0 ltshp	C/Small	-0.35	26	51	77	92	102	Wood
USA	Coontz	DDG	4700 std	C/Small	-0.15	51	102	152	183	203	Alum
USA	Coral Sea	CV	0 ltshp	A/Large		306	611	917	1100	1222	
USA	Cornhusker State	ACS	0 ltshp	B/Medium	-0.50	65	129	194	232	258	Civ
USA	Crosley	APD	1450 std	D/Small		27	55	82	98	109	
USA	Cyclone	PC	0 ltshp	E/VSmall	--	--	--	--	--	40	
USA	Cyclone (PC-14)	PC	0 ltshp	D/Small		12	23	35	41	46	
USA	Darter	SS	0 subm	C/Small	-0.50	18	37	55	66	73	Sub
USA	DDS	DDS	0 subm	F/VSmall	--	--	--	--	--	8.2	
USA	De Soto County	LST	0 ltshp	C/Small	-0.25	43	86	128	154	171	Amphib
USA	Dealey	DE	1450 std	D/Small	-0.15	23	47	70	84	93	Alum
USA	Decatur	DDG	3060 std	C/Small	-0.15	38	77	115	138	153	Alum
USA	Dixie	AD	9450 std	B/Medium	-0.25	72	143	215	257	286	Aux
USA	Edsall (FMR Type) (DE)	DE	1200 std	D/Small		24	48	72	86	96	
USA	Edsall (FMR Type) (DER)	DER	1590 std	C/Small	-0.15	25	50	74	89	99	Alum
USA	Elk River	LSM(R)	994 std	D/Small	-0.25	16	32	48	58	64	Amphib
USA	Enterprise	CVN	75700 std	A/Large		382	764	1145	1374	1527	
USA	Enterprise (1981 Refit)	CVN	75700 std	A/Large		382	764	1145	1374	1527	
USA	Essex	LPH	30800 std	A/Large		210	419	629	754	838	
USA	Essex (SCB-125)	CVS	32652 std	A/Large		218	436	653	784	871	

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
USA	Essex (SCB-125/125A)	CV	33793 std	A/Large		223	446	669	803	892	
USA	Ethan Allen (SSBN)	SSBN	0 subm	B/Medium	-0.50	42	85	127	152	169	Sub
USA	Ethan Allen (SSN)	SSN	0 subm	B/Medium	-0.50	42	85	127	152	169	Sub
USA	Evans	DE	1450 std	D/Small	-0.15	23	47	70	84	93	Alum
USA	Ex-USN Casco (311')	WAVP	1766 std	C/Small		31	62	93	112	124	
USA	Fallon	MSC	0 ltshp	D/Small	-0.35	7	14	21	25	28	Wood
USA	Flagstaff	PGH	57 std	F/VSmall	-0.15	--	--	--	--	11	Alum
USA	Fleet Snorkel	SS	0 subm	C/Small	-0.50	19	39	58	69	77	Sub
USA	Fleet Submarine	SS	0 subm	C/Small	-0.50	19	39	58	69	77	Sub
USA	Fletcher	DD	2406 std	C/Small		38	77	115	138	153	
USA	Fletcher DDE	DDE	2406 std	C/Small		38	77	115	138	153	
USA	Fletcher FRAM II	DD	2406 std	C/Small	-0.15	33	65	98	117	130	Alum
USA	Fletcher FRAM II (DASH)	DD	2406 std	C/Small	-0.15	33	65	98	117	130	Alum
USA	Flying Sub	SSNX	0 subm	F/VSmall	-0.50	2	4.1	6.1	7.3	8.1	Sub
USA	Forrest Sherman	DD	0 ltshp	C/Small		45	91	136	163	181	
USA	Forrest Sherman (ASW Refit)	DD	2850 std	C/Small		43	86	128	154	171	
USA	Forrestal	CV	60000 std	A/Large		327	654	981	1177	1308	
USA	Freedom	FFL	2840 std	C/Small	-0.15	36	73	109	131	145	Alum
USA	Fulton	AS	9734 std	B/Medium	-0.25	73	146	219	263	292	Aux
USA	Garcia	DE/FF	2620 std	C/Small	-0.15	35	69	104	124	138	Alum
USA	Gato (SSG)	SSG	0 subm	C/Small	-0.50	19	39	58	69	77	Sub
USA	Gato (SSR)	SSR	0 subm	C/Small	-0.50	19	37	56	67	74	Sub
USA	Gato (APSS)	APSS	0 subm	C/Small	-0.50	19	39	58	69	77	Sub
USA	Gearing	DD	2637 std	C/Small		41	82	122	147	163	

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
USA	Gearing DDE I	DDE	2637 std	C/Small		41	82	122	147	163	
USA	Gearing DDE II	DDE	2637 std	C/Small		41	82	122	147	163	
USA	Gearing DDR	DDR	2637 std	C/Small		41	82	122	147	163	
USA	Gearing FRAM I Group A	DD	2699 std	C/Small	-0.15	35	70	105	126	140	Alum
USA	Gearing FRAM I Group B	DD	2699 std	C/Small	-0.15	35	70	105	126	140	Alum
USA	Gearing FRAM I Group C	DD	2637 std	C/Small	-0.15	35	69	104	124	138	Alum
USA	Gearing FRAM II	DDR	2699 std	C/Small	-0.15	35	70	105	126	140	Alum
USA	Gearing FRAM II (Ex-DDE)	DD	2699 std	C/Small	-0.15	35	70	105	126	140	Alum
USA	Gearing FRAM II (Ex-DDR)	DD	2699 std	C/Small	-0.15	35	70	105	126	140	Alum
USA	Gem State	ACS	0 ltshp	B/Medium	-0.50	71	143	214	257	285	Civ
USA	General Daniel L. Sultan	T-AP	9676 std	B/Medium	-0.50	49	97	146	175	194	Civ
USA	General G. M. Randall	T-AP	11828 std	B/Medium	-0.50	55	111	166	199	221	Civ
USA	General Le Roy Eltinge	T-AP	10034 std	B/Medium	-0.50	50	99	149	178	198	Civ
USA	George Washington	SSBN	0 subm	B/Medium	-0.50	38	76	114	137	152	Sub
USA	Glacier	WAGB	8449 std	B/Medium		89	177	266	319	354	
USA	Glenard P. Lipscomb	SSN	0 subm	B/Medium	-0.50	37	74	111	133	148	Sub
USA	Glover	AGDE	2620 std	C/Small	-0.15	35	69	104	124	138	Alum
USA	Gordon	AK	0 ltshp	A/Large	-0.50	120	239	359	430	478	Civ
USA	Grayback	SSG	0 subm	C/Small	-0.50	25	51	76	91	101	Sub
USA	Growler	SSG	0 subm	C/Small	-0.50	24	48	72	86	96	Sub
USA	Guardian	YAGR	3600 std	C/Small	-0.50	25	50	75	90	100	Civ
USA	Guppy IA	SS	0 subm	C/Small	-0.50	19	38	57	68	76	Sub
USA	Guppy II	SS	0 subm	C/Small	-0.50	19	38	57	68	76	Sub
USA	Guppy IIA	SS	0 subm	C/Small	-0.50	19	39	58	69	77	Sub

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
USA	Guppy III	SS	0 subm	C/Small	-0.50	22	43	65	77	86	Sub
USA	Gyatt	DDG	2637 std	C/Small		41	82	122	147	163	
USA	Halibut	SSGN	0 subm	C/Small	-0.50	31	62	92	111	123	Sub
USA	Hamilton (378')	WHEC	2716 std	C/Small	-0.25	31	62	93	112	124	AAL
USA	Harpers Ferry	LSD	0 ltshp	B/Medium	-0.25	91	181	272	326	362	Amphib
USA	Haskell	APA	0 ltshp	B/Medium	-0.50	41	83	124	149	165	Civ
USA	Haven	AH	11141 std	B/Medium	-0.25	80	160	239	287	319	Aux
USA	Henry J. Kaiser	AOR	0 ltshp	B/Medium	-0.25	78	156	233	280	311	Aux
USA	Howard O. Lorenzen	T-AGM	0 ltshp	B/Medium	-0.50	52	104	156	187	208	Civ
USA	Hunley	AS	10500 std	B/Medium	-0.25	77	154	230	276	307	Aux
USA	Improved Los Angeles (7147 t)	SSN	0 subm	B/Medium	-0.50	40	79	119	142	158	Sub
USA	Improved Los Angeles (7177 t)	SSN	0 subm	B/Medium	-0.50	40	80	119	143	159	Sub
USA	Improved Spruance	DD	0 ltshp	B/Medium	-0.15	66	132	198	238	264	Alum
USA	Independence	FFL	0 ltshp	C/Small	-0.50	20	39	59	70	78	FFL, AAL
USA	Iowa	BB	46177 std	A/Large		275	549	824	988	1098	
USA	Iowa (1967-69)	BB	46177 std	A/Large		275	549	824	988	1098	
USA	Iowa Commando/Heavy Assault ship	LBB?	44000 std	A/Large		266	532	797	957	1063	
USA	Iwo Jima	LPH	17000 std	B/Medium	-0.25	106	212	317	381	423	Amphib
USA	James E. Robinson	T-AK	0 fl	B/Medium	-0.50	60	120	179	215	239	Civ
USA	John C. Butler (WGT Type)	DE	1350 std	D/Small		26	52	78	94	104	
USA	John C. Butler (WGT Type) (DER)	DER	1745 std	C/Small	-0.15	26	53	79	95	105	Alum
USA	John F. Kennedy	CV	64700 std	A/Large		344	688	1031	1238	1375	
USA	Joint Venture	HSV	0 fl	D/Small	-0.75	7	14	20	24	27	Civ, AAL
USA	Kankakee	AO	0 ltshp	B/Medium	-0.25	57	115	172	206	229	Aux

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
USA	Kidd	DDG	0 ltshp	B/Medium	-0.15	72	143	215	257	286	Alum
USA	Kilauea	AE	0 ltshp	B/Medium	-0.25	76	153	229	275	305	Aux
USA	Kitty Hawk (CV 63, 64)	CV	60100 std	A/Large		327	655	982	1178	1309	
USA	Kitty Hawk (CV 66)	CV	60300 std	A/Large		328	656	984	1181	1312	
USA	Knox	DE/FF	0 ltshp	C/Small	-0.15	42	84	126	151	168	Alum
USA	Lafayette	SSBN	0 subm	B/Medium	-0.50	44	87	131	157	174	Sub
USA	Lassen	AE	0 ltshp	B/Medium	-0.25	52	105	157	188	209	Aux
USA	LCAC	LCUA	0 ltshp	E/VSmall	-0.45	--	--	--	--	10	Amphib, ACV
USA	LCM(6)	LCM	0 ltshp	F/VSmall	-0.25	--	--	--	--	6.2	Amphib
USA	LCM(8)	LCM	0 ltshp	F/VSmall	-0.25	--	--	--	--	11	Amphib
USA	LCPL	LCPL	9 std	G/VSmall	-0.25	--	--	--	--	2.8	Amphib
USA	LCU-1466	LCU	347 std	E/VSmall	-0.25	--	--	--	--	32	Amphib
USA	LCVP	LCVP	13 std	G/VSmall	-0.25	--	--	--	--	3.5	Amphib
USA	Leahy	CG	5670 std	B/Medium	-0.15	58	115	173	207	230	Alum
USA	Legend	WMSL	0 fl	C/Small	-0.15	45	90	135	162	180	
USA	Lewis and Clark	T-AKE	0 fl	A/Large	-0.25	172	345	517	620	689	Aux
USA	Long Beach	CGN	14200 std	B/Medium	-0.15	106	213	319	383	425	Alum
USA	Long Beach (1983)	CGN	0 ltshp	B/Medium	-0.15	120	240	360	432	480	Alum
USA	Los Angeles (6927 t)	SSN	0 subm	B/Medium	-0.50	39	78	116	140	155	Sub
USA	Los Angeles (6977 t)	SSN	0 subm	B/Medium	-0.50	39	78	117	140	156	Sub

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
USA	Los Angeles (7012 t)	SSN	0 subm	B/Medium	-0.50	39	78	117	140	156	Sub
USA	Los Angeles (7102 t)	SSN	0 subm	B/Medium	-0.50	39	79	118	141	157	Sub
USA	M80 Stiletto	LCW	60 std	F/VSmall	-0.25	--	--	--	--	9.8	Amphib
USA	Mars	AF/AFS	0 ltshp	B/Medium	-0.25	77	155	232	278	309	Aux
USA	Maumee	T-AO	0 ltshp	B/Medium	-0.25	69	138	207	248	276	Aux
USA	Medium Carrier	CVV	0 fl	A/Large		293	585	878	1053	1170	
USA	Meteor	WAK	0 grt	B/Medium	-0.50	57	114	171	205	228	Civ
USA	Midway (1986)	CV	51000 std	A/Large		293	587	880	1056	1173	
USA	Minisub	SS	0 subm	F/VSmall	-0.50	0.9	1.7	2.6	3.1	3.4	Sub
USA	Mispillion	AO	0 ltshp	B/Medium	-0.25	86	172	257	309	343	Aux
USA	Mitscher	DL	3642 std	C/Small		51	101	152	182	202	
USA	Mitscher (1968)	DDG	3643 std	C/Small		51	101	152	182	202	
USA	Montford Point	T-MLP	34500 std	A/Large	-0.25	170	339	509	610	678	Aux
USA	Mount McKinley	LCC	0 ltshp	B/Medium	-0.25	65	130	194	233	259	Aux
USA	Narwhal	SSN	0 subm	C/Small	-0.50	33	65	98	117	130	Sub
USA	Nautilus	SSN	0 subm	C/Small	-0.50	27	55	82	98	109	Sub
USA	Neosho	AO	0 ltshp	B/Medium	-0.25	89	178	267	320	356	Aux
USA	Newport	LST	0 ltshp	B/Medium	-0.25	51	101	152	182	202	Amphib
USA	Nimitz	CVN	81600 std	A/Large		401	803	1204	1445	1605	
USA	Norfolk	DL	5556 std	B/Medium		67	134	200	240	267	
USA	Northampton	CLC	14700 std	B/Medium		128	256	384	461	512	
USA	Ohio	SSBN	0 subm	A/Large	-0.50	75	151	226	271	301	Sub
USA	Ohio (SSGN)	SSGN	0 subm	A/Large	-0.50	75	151	226	271	301	Sub
USA	O.H. Perry (short hull)	FFG	2770 std	C/Small	-0.15	36	72	107	129	143	Alum

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
USA	O.H. Perry (long hull)	FFG	3660 std	C/Small	-0.15	43	86	129	155	172	Alum
USA	Oregon City	CA	13600 std	B/Medium		122	243	365	437	486	
USA	Osprey	MHC	0 ltshp	D/Small	-0.10	18	36	53	64	71	GRP
USA	Owasco (255')	WPG	1563 std	C/Small		29	58	86	104	115	
USA	Patrol Frigate 4921	FF	0 fl	C/Small	-0.25	40	80	119	143	159	AAL
USA	Paul Revere	APA	0 ltshp	B/Medium	-0.25	84	169	253	303	337	Aux
USA	PBR	PBR	8 std	G/VSmall	-0.10	--	--	--	--	3.1	GRP
USA	Pegasus	PGH	0 fl	E/VSmall	-0.15	--	--	--	--	24	Alum
USA	Petersburg	OPDS Tnkr	0 ltshp	B/Medium	-0.50	69	138	206	248	275	Civ
USA	Permit (4310 t)	SSN	0 subm	C/Small	-0.50	28	57	85	102	113	Sub
USA	Permit (4770 t)	SSN	0 subm	C/Small	-0.50	30	61	91	109	121	Sub
USA	Point (82')	WPB	69 std	F/VSmall		--	--	--	--	14	
USA	Potomac	WAOT	0 grt	B/Medium	-0.50	55	111	166	199	221	Civ
USA	Proteus	AS	10234 std	B/Medium	-0.25	75	151	226	271	301	Aux
USA	Rainer	AE	0 ltshp	B/Medium	-0.25	52	105	157	188	209	Aux
USA	Raleigh	LPD	0 ltshp	B/Medium	-0.25	71	142	213	256	284	Amphib
USA	Rankin	AKA	0 ltshp	B/Medium	-0.25	79	157	236	283	314	Aux
USA	Reliance (210')	WPC	950 std	D/Small	-0.25	16	31	47	56	62	AAL
USA	Rudderrow (TEV Type)	DE	1450 std	D/Small		27	55	82	98	109	
USA	Sacramento	AOE	0 ltshp	A/Large	-0.25	122	245	367	440	489	Aux
USA	Safeguard	ARS	0 ltshp	C/Small	-0.25	34	68	101	122	135	Aux
USA	Sailfish	SSR	0 subm	C/Small	-0.50	23	46	69	83	92	Sub
USA	Saipan	AGMR	11373 std	B/Medium		108	216	323	388	431	
USA	Salem	CA	17000 std	B/Medium		141	282	423	508	564	

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
USA	Samuel Gompers	AD	0 ltshp	B/Medium	-0.25	99	198	296	356	395	Aux
USA	San Antonio	LPD	12000 std	B/Medium	-0.25	84	168	251	302	335	Amphib
USA	SDV MkVIII Mod 0/1	SSM	0 subm	G/VSmall	-0.50	0.7	1.4	2.1	2.5	2.8	Sub
USA	Seaview	SSRN	0 subm	B/Medium	-0.50	44	88	131	158	175	Sub
USA	Seawolf (i)	SSN	0 subm	C/Small	-0.50	28	56	84	101	112	Sub
USA	Seawolf (ii)	SSN	0 subm	B/Medium	-0.50	47	93	140	167	186	Sub
USA	Shughart	AK	0 ltshp	A/Large	-0.50	121	243	364	437	485	Civ
USA	Skate	SSN	0 subm	C/Small	-0.50	22	43	65	77	86	Sub
USA	Skipjack	SSN	0 subm	C/Small	-0.50	25	49	74	88	98	Sub
USA	SL7	AK	0 grt	A/Large	-0.50	117	234	351	421	468	Civ
USA	Spearhead (i)	TSV	0 fl	C/Small	-0.75	7	15	22	26	29	Civ, AAL
USA	Spearhead (ii)	JHSV	1515 std	C/Small	-0.50	14	28	42	50	56	Aux, AAL
USA	Spruance	DD	0 ltshp	B/Medium	-0.15	66	132	198	238	264	Alum
USA	Stalwart	AGOS	0 ltshp	C/Small	-0.40	19	38	56	68	75	MStd
USA	Storis (230')	WAG	1715 std	C/Small		31	61	92	110	122	
USA	Strike Cruiser	CSGN	15000 std	B/Medium		130	260	389	467	519	
USA	Sturgeon	SSN	0 subm	C/Small	-0.50	30	61	91	109	121	Sub
USA	Supply	AOE	0 ltshp	A/Large	-0.25	127	253	380	455	506	Aux
USA	Suribachi	AE	14000 std	B/Medium	-0.25	93	186	278	334	371	Aux
USA	Swift (i)	PCF	19 std	G/VSmall	-0.50	--	--	--	--	3	Civ
USA	Swift (ii)	HSV	0 fl	C/Small	-0.75	7	15	22	26	29	Civ, AAL
USA	Tanager	WTR	890 std	D/Small	-0.25	15	30	44	53	59	Aux
USA	Tang	SS	0 subm	C/Small	-0.50	18	37	55	66	73	Sub
USA	Tarawa	LHA	33536 std	A/Large	-0.25	166	333	499	599	665	Amphib

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
USA	Terrebone Parish	LST	0 ltshp	C/Small	-0.25	33	66	98	118	131	Amphib
USA	Theodore Roosevelt	CVN	81600 std	A/Large		401	803	1204	1445	1605	
USA	Thomaston	LSD	0 ltshp	B/Medium	-0.25	63	126	188	226	251	Amphib
USA	Ticonderoga (i)	CVS	26688 std	A/Large		191	381	572	686	762	
USA	Ticonderoga (ii)	CG	0 ltshp	B/Medium	-0.15	76	152	228	274	304	Alum
USA	Triton	SSRN	0 subm	B/Medium	-0.50	42	84	125	150	167	Sub
USA	Truxtun	CGN	8600 std	B/Medium	-0.15	76	152	228	274	304	Alum
USA	Tucumcari	PGH	58 std	F/VSmall	-0.15	--	--	--	--	11	Alum
USA	Tulare	AKA	0 ltshp	B/Medium	-0.25	75	151	226	271	301	Aux
USA	Tulibee	SSN	0 subm	C/Small	-0.50	20	41	61	73	81	Sub
USA	United States	CV	66434 std	A/Large		350	700	1049	1259	1399	
USA	Virginia (i)	CGN	0 ltshp	B/Medium	-0.15	94	189	283	339	377	Alum
USA	Virginia (ii)	SSN	0 subm	B/Medium	-0.50	42	84	126	151	168	Sub
USA	Wasp	LHD	34047 std	A/Large	-0.25	168	336	504	605	672	Amphib
USA	Watson	AK	36114 std	A/Large	-0.50	117	233	350	419	466	Civ
USA	Whidbey Island	LSD	11854 std	B/Medium	-0.25	83	166	249	299	332	Amphib
USA	Wichita	AOR	0 ltshp	B/Medium	-0.25	101	202	303	364	404	Aux
USA	Wind class	WAGB	3500 std	C/Small		49	98	147	176	196	
USA	Worcester	CL	14700 std	B/Medium		128	256	384	461	512	
USA	Wrangell	AE	0 ltshp	B/Medium	-0.25	60	119	179	214	238	Aux
USA	Wright	AVB	0 ltshp	B/Medium	-0.50	68	137	205	246	273	Civ
USA	Zumwalt	DDG	0 ltshp	B/Medium	-0.25	93	186	279	335	372	
Uzbekistan	Project 58150 Gyurza	WPM	0 fl	F/VSmall		--	--	--	--	8.2	
Venezuela	Almirante Clemete	FF	1300 std	D/Small	-0.25	19	38	57	68	76	Special-25%

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Venezuela	Capana	LST	0 ltshp	C/Small	-0.25	26	52	77	93	103	Amphib
Venezuela	Ciudad Bolivar	AOR	0 fl	B/Medium	-0.25	66	131	197	236	262	Aux
Venezuela	Constitucion	PC	150 std	E/VSmall	--	--	--	--	--	24	
Venezuela	Ex-US Allen M Sumner FRAM I	DD	2746 std	C/Small	-0.15	36	71	107	128	142	Alum
Venezuela	Ex-US Allen M Sumner FRAM II	DD	2746 std	C/Small	-0.15	36	71	107	128	142	Alum
Venezuela	Ex-US Balao	SS	0 subm	C/Small	-0.50	19	39	58	69	77	Sub
Venezuela	Ex-US Guppy II	SS	0 subm	C/Small	-0.50	19	38	57	68	76	Sub
Venezuela	Ex-USA Terrebonne Parish	LST	0 ltshp	C/Small	-0.25	33	66	98	118	131	Amphib
Venezuela	Federación	PTG	150 std	E/VSmall	--	--	--	--	--	24	
Venezuela	FRG Klasse 209/1200	SS	0 subm	D/Small	-0.50	13	25	38	45	50	Sub
Venezuela	Italy Lupo	FF	2213 std	C/Small		36	73	109	131	145	
Venezuela	Nueva Esparta	DD	2600 std	C/Small		40	81	121	145	161	
Venezuela	Russian Pr. 636 [Kilo]	SS	0 subm	C/Small	-0.50	23	46	68	82	91	Sub
Vietnam/NVN	Barrett	T=AP	17600 std	B/Medium	-0.50	72	145	217	260	289	Civ
Vietnam/NVN	BPS 500	PGG	517 std	D/Small		14	28	41	50	55	
Vietnam/NVN	Ex-Russian Pr. 159A/159AE [Petya II/III]	FFL	950 std	D/Small	-0.10	19	37	56	67	74	Nat
Vietnam/NVN	Ex-Russian Pr. 205U [Osa II]	PTG	200 std	E/VSmall	-0.10	--	--	--	--	26	Nat
Vietnam/NVN	Ex-Russian Pr. 206 [Shershen]	PTH	145 std	E/VSmall	-0.10	--	--	--	--	21	Nat
Vietnam/NVN	Ex-Russian Pr. 206ME [Turya]	PTH	190 std	E/VSmall	-0.10	--	--	--	--	25	Nat
Vietnam/NVN	Ex-Russian Pr. 771 [Polnocny B]	LST	750 std	D/Small	-0.35	12	23	35	41	46	Nat, Amphib
Vietnam/NVN	General Daniel I. Sultan	T-AP	9676 std	B/Medium	-0.50	49	97	146	175	194	Civ
Vietnam/NVN	General G.M. Randall	T-AP	11828 std	B/Medium	-0.50	55	111	166	199	221	Civ
Vietnam/NVN	General R.M. Blatchford	T-AP	10034 std	B/Medium	-0.50	50	99	149	178	198	Civ
Vietnam/NVN	PRC Type 55A Shantow [Satow]	PG	0 fl	F/VSmall	-0.10	--	--	--	--	13	Nat

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Vietnam/NVN	Russian Pr. 11661E Gepard	FF	0 fl	C/Small	-0.15	27	54	80	96	107	ALS
Vietnam/NVN	Russian Pr. 123K/123bis [P-4]	PT	22 std	F/VSmall	-0.35	--	--	--	--	4.3	Nat, AAL
Vietnam/NVN	Russian Pr. 1241 [Tarantul I]	PTG	385 std	D/Small	-0.10	10	21	31	37	41	Nat
Vietnam/NVN	Russian Pr. 1241.8 [Tarantul V]	PTG	385 std	D/Small	-0.10	10	21	31	37	41	Nat
Vietnam/NVN	Russian Pr. 1265 [Sonya]	MSC	427 std	D/Small	-0.10	11	22	32	39	43	Nat
Vietnam/NVN	Russian Pr. 636.1 [Kilo]	SS	0 subm	C/Small	-0.50	23	46	68	82	91	Sub
Vietnam, South	Ex-Caddo Parish	LST	0 ltshp	C/Small	-0.25	26	51	77	92	102	Amphib
Vietnam, South	Ex-US LSM	LSM	743 std	D/Small	-0.25	13	26	39	47	52	Amphib
Vietnam, South	Ex-US LSSL	LSSL	227 std	E/VSmall	-0.25	--	--	--	--	24	Amphib
Yemen, North	Ex-Russian Pr. 1258 [Yevgenya]	MSI	95 std	E/VSmall	-0.20	--	--	--	--	14	Nat, GRP
Yemen, North	Ex-Russian Pr. 205U [Osa II]	PTG	200 std	E/VSmall	-0.10	--	--	--	--	26	Nat
Yemen, North	Ex-Russian Pr. 368 [Poluchat I]	PB	80 std	F/VSmall	-0.10	--	--	--	--	14	Nat
Yemen, North	Russian Pr. 123bis [P-4]	PT	22 std	F/VSmall	-0.25	--	--	--	--	5	AAL
Yemen, North	Russian Pr. 1176 [Ondatra]	LCU	90 std	E/VSmall	-0.35	--	--	--	--	11	Nat, Amphib
Yemen, North	Russian Pr. 1400 Grif [Zhuk]	PC	36 std	F/VSmall	-0.35	--	--	--	--	6	Nat, AAL
Yemen, North	Russian Pr. 1785 [T-4]	LCM	0 ltshp	F/VSmall	-0.35	--	--	--	--	6.4	Nat, Amphib
Yemen, North	Sana'a	PB	90 std	E/VSmall		--	--	--	--	17	
Yemen, South	Ex-Russian Pr. 183 [P-6]	PT	61 std	F/VSmall	-0.10	--	--	--	--	12	Nat
Yemen, South	Ex-Russian Pr. 201M [SO-1]	PC	170 std	E/VSmall	-0.10	--	--	--	--	24	Nat
Yemen, South	Ex-Russian Pr. 368 [Poluchat I]	PB	80 std	F/VSmall	-0.10	--	--	--	--	14	Nat
Yemen, South	Ex-UK Ham	MSI	123 std	E/VSmall	-0.35	--	--	--	--	14	Wood
Yemen, South	Polish Project 771 [Polnocny B]	LSM	836 std	D/Small	-0.35	12	25	37	44	49	Nat, Amphib
Yemen, South	Russian Pr. 205U [Osa II]	PTG	215 std	E/VSmall	-0.10	--	--	--	--	28	Nat
Yemen, South	Russian Pr. 206E [Mol]	PT	220 std	E/VSmall	-0.10	--	--	--	--	28	Nat

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Yemen, South	Russian Pr. 264A [T-58]	MSF	868 std	D/Small	-0.10	18	35	53	63	70	Nat
Yemen, South	Russian Pr. 775 [Ropucha]	LST	2600 std	C/Small	-0.35	26	53	79	95	105	Nat, Amphib
Yemen, South	Russian Pr. 1258 [Yevgenya]	MSI	95 std	E/VSmall	-0.20	--	--	--	--	14	Nat, GRP
Yemen, South	Russian Pr. 1400 Grif [Zhuk]	PC	36 std	F/VSmall	-0.35	--	--	--	--	6	Nat, AAL
Yemen, South	Russian Pr. 1785 [T-4]	LCM	0 ltshp	F/VSmall	-0.35	--	--	--	--	6.4	Nat, Amphib
Yemen, Republic	37 m class	PB	90 std	E/VSmall		--	--	--	--	17	
Yemen, Republic	CMN-15-60	PB	0 fl	G/VSmall	-0.10	--	--	--	--	3.6	GRP
Yemen, Republic	Ex-Polish Pr. 771 [Polnocny B]	LSM	836 std	D/Small	-0.35	12	25	37	44	49	Nat, Amphib
Yemen, Republic	Ex-Russian Pr 1785 [T-4]	LCM	0 ltshp	F/VSmall	-0.35	--	--	--	--	6.4	Nat, Amphib
Yemen, Republic	Polish Pr. NS-717 [Deba]	LCU	0 fl	E/VSmall	-0.25	--	--	--	--	22	Amphib
Yemen, Republic	Polish Pr. NS-722	LSM	1363 std	D/Small	-0.25	20	40	59	71	79	Amphib
Yemen, Republic	PRC Type 021 [Houan]	PTG	186 std	E/VSmall	-0.10	--	--	--	--	25	Nat
Yemen, Republic	Russian Pr. 1176 [Ondatra]	LCU	90 std	E/VSmall	-0.35	--	--	--	--	11	Nat, Amphib
Yemen, Republic	Russian Pr. 1241RE [Tarantul I]	PTG	385 std	D/Small	-0.25	9	17	26	31	34	Nat, ALS
Yemen, Republic	Russian Pr. 1258 [Yevgenya]	MSI	95 std	E/VSmall	-0.20	--	--	--	--	14	Nat, GRP
Yemen, Republic	Russian Pr. 1400 Grif [Zhuk]	PC	36 std	F/VSmall	-0.10	--	--	--	--	8.4	Nat
Yemen, Republic	Russian Pr. 205U [Osa II]	PTG	200 std	E/VSmall	-0.10	--	--	--	--	26	Nat
Yemen, Republic	Russian Pr. 266ME [Natya I]	MSF	750 std	D/Small	-0.25	13	27	40	48	53	Nat, ALS
Yemen, Republic	Russian Pr. 775 [Ropucha]	LST	2600 std	C/Small	-0.35	26	53	79	95	105	Nat, Amphib
Yemen, Republic	Sana'a	PB	90 std	E/VSmall		--	--	--	--	17	
Yugoslavia	DTM 221	LST	240 std	E/VSmall	-0.35	--	--	--	--	21	Nat, Amphib
Yugoslavia	Ex-GB W class	DD	1802 std	C/Small		32	63	95	113	126	
Yugoslavia	Ex-Russian Pr. 205 [Osa I]	PTG	184 std	E/VSmall	-0.10	--	--	--	--	25	Nat
Yugoslavia	French Le Fougueux	PC	325 std	E/VSmall		--	--	--	--	40	

Harpoon 2012 Standard Damage Values

Country	Class Name	Type	Listed Displacement	Size	Total Modifiers	25% Damage	50% Damage	75% Damage	90% Damage	100% Sinks	Special Damage Modifiers
Yugoslavia	French Sirius	MSC	400 std	D/Small	-0.35	8	15	23	27	30	Wood
Yugoslavia	Heroj	SS	0 subm	D/Small	-0.50	13	26	39	47	52	Sub
Yugoslavia	Kotor	FF	1492 std	D/Small	-0.10	25	50	75	90	100	Nat
Yugoslavia	Lubin	AK	600 std	D/Small	-0.35	10	20	29	35	39	Nat, Aux
Yugoslavia	M-100D	SSM	0 subm	E/VSmall	-0.50	2.1	4.2	6.3	7.6	8.4	Sub
Yugoslavia	Mornar	PC	330 std	E/VSmall	-0.10	--	--	--	--	37	Nat
Yugoslavia	Nestin	MSB	65 std	F/VSmall	-0.35	--	--	--	--	8.9	Nat, AAL
Yugoslavia	Russian Pr. 206 [Shershen]	PT	220 std	E/VSmall	-0.10	--	--	--	--	28	Nat
Yugoslavia	Russian Pr. 1159T [Koni]	FFL	1515 std	C/Small	-0.10	25	51	76	91	101	Nat
Yugoslavia	Sava	SS	0 subm	D/Small	-0.50	11	21	32	38	42	Sub
Yugoslavia	Silba	LSM	700 std	D/Small	-0.35	11	22	33	40	44	Nat, Amphib
Yugoslavia	Split	DD	2400 std	C/Small	-0.10	34	69	103	123	137	Nat
Yugoslavia	Sutjeska	SS	0 subm	D/Small	-0.50	10	21	31	37	41	Nat, Sub
Yugoslavia	Type 11	LCM	32 std	F/VSmall	-0.45	--	--	--	--	4.7	Amphib, GRP
Yugoslavia	Type 21	LCM	32 std	F/VSmall	-0.35	--	--	--	--	5.6	Nat, Amphib
Yugoslavia	Type 22	LCM	0 fl	F/VSmall	-0.45	--	--	--	--	5.5	Amphib, GRP
Yugoslavia	Type 108	PT	55 std	F/VSmall	-0.10	--	--	--	--	11	Nat
Yugoslavia	Type 140	PC	125 std	E/VSmall	-0.10	--	--	--	--	19	Nat
Yugoslavia	Type 240	PTG	0 fl	E/VSmall	-0.25	--	--	--	--	22	Nat, Alum
Yugoslavia	Type 501	PC	195 std	E/VSmall	-0.10	--	--	--	--	26	Nat
Yugoslavia	Type 509	PC	210 std	E/VSmall	-0.10	--	--	--	--	27	Nat
Yugoslavia	UK Ham	MSI	123 std	E/VSmall	-0.35	--	--	--	--	14	Wood
Zambia	Ex-UK LCT(8)	LCT(8)	0 ltshp	D/Small	-0.25	13	26	39	47	52	Amphib
Zimbabwe	Belgian Type B 79	WPB	0 fl	G/VSmall	-0.10	--	--	--	--	4	GRP