

**Table 1: Gunnery Damage**

Gun	Damage (points)	Range (inches)		
		Lg Flr	Sm Flr	Vertical
37 mm	23	30	30	22
40 mm	26	30	30	24
47 mm	38	33	30	26
3"	90	60	48	27
3.5"	112	62	50	28
3.9"	152	66	54	30
4"	160	70	56	30
4.1"	192	72	56	30
4.5"	212	76	62	33
4.7"	244	78	65	34
5"	266	80	70	35
5.1"	352	84	72	35
5.2"	372	86	76	35
5.5"	404	90	77	35
5.9"	490	96	89	35
6"	500	100	92	35
6.1"	550	110	95	35
7.5"	880	160	104	
8"	1150	190	110	
9.4"	1650	200	118	
10"	1960	225	125	
11"	2600	250	135	
12"	3700	275	145	
12.6"	4700	290	150	
13"	5150	300	153	
13.4"	5200	310	156	
14"	6250	325	160	
15"	8550	325	165	
16"	10550	350	170	

**Table 3: Airplane Ranges & Speeds**

Class	Range (moves)	Speed (inches)	Climb
			penalty (in./level)
Land pursuit	25	75	2
Seaplane pursuit	20	70	2
L. observation	56	65	3
S. observation	50	55	3
L. bomber - loaded	60	65	4
L. bomber - unloaded	60	67	3
S. bomber - loaded	56	55	4
S. bomber - unloaded	56	57	3
Patrol	89	54	4

**Table 4: Airplane Bomb Damage**

Bomb (pounds)	Damage (points)	
	Direct hit (on ship)	Indirect hit ( $\leq 1''$ from ship)
25	100	50
100	400	400
250	1200	1500
500	2500	3100
1000	5200	same as torpedo

**Table 5: Antiaircraft Damage**

Gun	Pursuit	Observation	Bomber	Patrol
37 mm	D	BD	—	—
40 mm	D	BD	BD	—
47 mm	D	D	BD	—
3"	D	D	D	BD
3.5" - 3.9"	D	D	D	BD
4" - 4.1"	D	D	D	BD
Above 4.1"	D	D	D	D

D = Destroyed; BD = Body Damage

**Table 2: Torpedo Damage**

The fractions in the table below show the portion of a ship's total value lost by a torpedo hit. "Sinks" indicates that the ship is sunk.

Class	First hit		Second hit		Third hit		Fourth hit		Fifth hit	
	F/A	Amids.	F/A	Amids.	F/A	Amids.	F/A	Amids.	F/A	Amids.
A	Sinks	Sinks								
B	1/3	Sinks	Sinks	Sinks						
C	1/5	1/3	1/3	1/2	1/2	Sinks				
D	1/6	1/5	1/6	1/4	1/3	1/3	1/3	Sinks		
E	1/8	1/6	1/6	1/6	1/6	1/5	1/5	1/4	1/4	1/3
F	1/12	1/10	1/8	1/8	1/8	1/6	1/6	1/5	1/5	1/4

F/A = Fore/Aft; Amids. = Amidship

Class A comprises merchant ships, gunboats, minesweepers, submarines, and torpedo boats.

Class B comprises destroyers, old armored cruisers, and a few old small light cruisers.

Class C contains light cruisers, the early "tinclad" heavy cruisers, old battleships, and carriers.

Class D comprises a few of the late heavy cruisers, a few specially protected light cruisers, and small battleships.

Class E comprises battleships.

Class F is for a very few specially-protected battleships, like the new German *Tirpitz*.