






VaS Wardroom - NatCB - Feb 2023

	This ship has the listed stats that have been changed / added in addition to those on the FAQ - points in () or [] have these changes costed where noted
	This ship has a WLPA cost calculated
	This is a best guess points value having removed weapons and traits and comparing the base ship to similar ships.
	These are SHIPS 1.4 points. Please note a number of them have changed from 1.3. If using 1.4 do not mix and match with SHIPS 1.3
	(KM) The Radar (fore) and the T4 torpedoes +1 to hit Refits on Submarines have not been pointed up in SHIPS 1.4 <i>(The torpedoes are that short range and is the only weapon on the submarine means it's a free bonus for actually using it!)</i>

The Ships TAB gives you all the official stat'd ships, and their named class members. No official stats have been included, just names, years and points due to IP Laws
The figure in the points column is the total cost of the ship with all previous refits already calculated for you.

There are several systems of points, please use a single system for all players in your game(s) as each is a different points calculation and may cause unexpected balanced issues if you attempt to mix and match

WLPS	WarLord Points System	This is the Official points from the book and is included for those who do not want to use alternate points systems. It also highlights the inconsistencies of the official points. Refits are rounded to closest 5 points before final calculation
WLPA	WarLord Points Adjusted	This is WLPS but Nation & class consistency has been added to refits so you don't have one ship paying 5 points and another 10 points for the same thing. Extreme outliers have been best guessed re-pointed Where there is no entry in the WLPA column (highlighted in Light Blue) then there is no change from WLPS. Note there are NO WLPA for flights or MTBs
SHIPS 1.4		This is a from the ground up new points system calculated by Discord User Enioch. The final calculation of points after refits is rounded to the closest 5 points, which is why some refits don't change the cost of the ship Note : MTBs in 1.4 are still beta costs and so may not be balanced.

How to Use SHIPS 1.3/1.4

If using the SHIPS 1.4 column you will notice carriers have a base number followed by a plus another number /CAG. This is because when building your fleet flights on board a carrier (called a Carrier Air Group or CAG) are not free like with WLPS/WLPA but rather you have to pay the CBA (Carrier Based Aircraft) listed cost of the flight. You then add this cost to that of the carrier, if the cost is lower than the 2nd number (after the +) then you add that number instead

eg The Kaga is 150+ 90/CAG. So the cost in your list is 150 and the higher of either 90 or the CBA cost of the flights you have included as being on the Carrier.

In the Flights section there is the spotter plane entry for all nations. This is NOT a flight although it still takes up a 'flight slot' on the carrier, but rather grants Aircraft +1 Trait to the carrier, and can be purchased multiple times up to 25% of the flight capacity of the carrier rounding up.

Note 1: The use of scout flights doesn't alter the number of flights a carrier has. This means the calculations of how many flights can be deployed with scouting points doesn't change between points

Note 2: Unlaunched flights DO give up Victory points as destroyed if on a carrier when it is destroyed

SHIPS LBA & CBA

Flights have 2 costs under SHIPS, LBA (Land Based Aircraft) & CBA (Carrier Base Aircraft) Use the CBA cost when purchasing flights as part of a CAG. If purchasing flights as Land Based (up to 25% or 100% of total fleet value as per rulebook) then use the LBA cost instead.

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Name class	Refit Ship Name	TYPE class	Commission /Refit Year	WLPS ppm	WLPA	SHIPS 1.4
Royal Navy						
Admiral		Battleship	1920	400		395
Admiral	Hood - (Remove LGs 5.5", increase 4" LG to AD 7)		1940	375		395 (400)
Admiral	Hood		1941	435	425	420 (430)
Admiral	Hood		1942	685	455	485
King George V		Battleship	1940	600		660
King George V	Prince of Wales		1941	625		685
King George V	Duke of York,		1941	620		680
King George V	Anson, Howe, King George V		1942	620		680
King George V	Duke of York, King George V		1943	625		685
King George V	Anson, Howe		1943	630		690
King George V	Anson		1944	650		710
King George V	Duke of York		1944	645		705
King George V	King George V		1944	725	665	725
King George V	Howe		1944	730	735	770
King George V	Anson		1945	755	690	750
King George V	Duke of York		1945	750	755	800
King George V	Howe		1945	755		805
lion		battleship	----	900		990
N3		battleship	----	950		885
Nelson (Q turret P&S arc only)		Battleship	1927	600		560 (525)
Nelson	Rodney		1939	610		570 (535)
Nelson	Nelson		1940	625		585 (550)
Nelson	Rodney		1941	635		595 (560)
Nelson	Nelson		1941	685		630 (590)
Nelson	Rodney		1942	700		645 (605)
Nelson	Nelson		1942	685		640 (600)
Nelson	Nelson		1943	695		650 (610)
Nelson	Rodney		1944	710		655 (615)
Nelson	Nelson		1945	715		670 (630)
QE (group 1)		Battleship	1915 (refit 1934)	375		310
QE (group 1)	Malaya		1934	370		310
QE (group 1)	Barnham		1941	400		335
QE (group 1)	Malaya		1942	385	390	330
QE (group 1)	Malaya		1943	435	430	350
QE (group 1)	Malaya		1944	405	410	355
QE (group 2)		Battleship	1914 (refit 1940)	375		395
QE (group 2)	Queen Elizabeth		1941	425		420
QE (group 2)	Queen Elizabeth		1942	425		420
QE (group 2)	Valiant		1943	415	410	415
QE (group 2)	Valiant		1944	435	455	450
QE (group 3)		Battleship	1915 (refit 1937)	375		365
QE (group 3)	Warspite		1942	430		395
QE (group 3)	Warspite		1943	425		390
QE (group 3)	Warspite		1944	405		345

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Renown (group 1)		Battleship	1916 (refit 1939)	370		410
Renown (group 1)	Renown		1942	410	415	445
Renown (group 1)	Renown		1943	410	405	440
Renown (group 1)	Renown		1944	415		450
Renown (group 1)	Renown		1945	395	400	440
Renown (group 2)		Battleship	1916 (refit 1936)	360		245
Renown (group 2)	Repulse		1940	360	365	255
Renown (group 2)	Repulse		1941	405	410	275
Revenge		Battleship	1916	375		285
Revenge	Resolution		1916	415	425	315
Revenge	Royal Sovereign		1918	410	420	320
Revenge	Revenge		1919	375	370	290
Revenge	Royal Oak		1919	380	375	295
Revenge	Resolution		1941	455	450	360
Revenge	Royal Sovereign		1941	435	435	355
Revenge	Ramilies		1942	365		285
Revenge	Resolution		1942	405	415	315
Revenge	Revenge		1942	370		285
Revenge	Royal Sovereign		1942	365		285
Revenge	Ramilies		1943	370		290
Revenge	Resolution		1943	415		315
Revenge	Royal Sovereign		1943	425		325
Revenge	Royal Sovereign		1944	415		325
Vanguard		battleship	----(46)	650		690
Ark Royal		Carrier	1938	250		160+75/CAG
Ark Royal	Ark Royal		1941	265		175+75/CAG
Audacious		Carrier	----(47)	300		290+95/CAG
Colossus		Carrier	1944	130		130+45/CAG
Colossus	Ocean		1945	140		140+45/CAG
Colossus	Colossus, Glory, Venerable, Vengence		1945	135		135+45/CAG
Courageus		Carrier	1917 (1928 as carrier)	180		135+60/CAG
Eagle		Carrier	1924	110		95+25/CAG
Eagle	Eagle		1942	135		105+25/CAG
Furious		Carrier	1917 (1925 as carrier)	160		125+45/CAG
Furious	Furious		1941	165		130+45/CAG
Furious	Furious		1943	175		135+45/CAG
Furious	Furious		1943	225	200	145+45/CAG
Hermes		Carrier	1924	95		70+25/CAG
Illustrious		Carrier	1940	180		170+40/CAG
Illustrious	Formidable, Illustrious, Victorious		1941	185		175+40/CAG
Illustrious	Formidable		1943	210	215	185+40/CAG
Illustrious	Formidable		1943	235	240	190+65/CAG
Illustrious	Illustrious		1943	220	225	195+40/CAG
Illustrious	Illustrious		1943	245	250	200+65/CAG
Illustrious	Victorious		1943	235	240	210+40/CAG
Illustrious	Victorious		1943	260	265	215+65/CAG
Illustrious	Formidable		1944	270		200+65/CAG

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<i>Illustrious</i>	Illustrious		1944	275		205+65/CAG
<i>Illustrious</i>	Victorious		1944	290	285	220+65/CAG
<i>Illustrious</i>	Formidable		1945	280		210+65/CAG
<i>Illustrious</i>	Victorious		1945	290	285	220+65/CAG
Implacable		Carrier	1944	300		195+100/CAG
<i>Implacable</i>	Orignial Design		1944	250	275	195+75/CAG
<i>Implacable</i>	Implacable		1945	315		210+100/CAG
<i>Implacable</i>	Implacable - OD		1945	265	290	210+75/CAG
<i>Implacable</i>	Indefatigable		1945	310		205+100/CAG
<i>Implacable</i>	Indefatigable - OD		1945	260	285	205+75/CAG
Indomitable		Carrier	1941	220		160+55/CAG
<i>Indomitable</i>	Indomitable		1942	245		185+55/CAG
<i>Indomitable</i>	Indomitable		1943	295		195+70/CAG
<i>Indomitable</i>	Indomitable		1944	345		240+70/CAG
<i>Indomitable</i>	Indomitable		1945	345		240+70/CAG
Malta		Carrier	----	325		195+120/CAG
Unicorn		Carrier	1943	135		100+45/CAG
<i>Unicorn</i>	Unicorn		1944	150		125+45/CAG
Activity		carrier / civilian	1942	60		60+15/CAG
Archer		carrier / civilian	1941	60		45+20/CAG
<i>Archer</i>	Archer		1942	65		55+20/CAG
<i>Archer</i>	Archer		1943	70		55+20/CAG
Argus		carrier / civilian	1918	80		50+25/CAG
<i>Argus</i>	Argus		1940	90		60+25/CAG
<i>Argus</i>	Argus		1942	95		60+25/CAG
Attacker		carrier / civilian	1942	85		70+25/CAG
<i>Attacker</i>	Battler		1943	95	90	75+25/CAG
<i>Attacker</i>	Searcher		1944	90		75+25/CAG
<i>Attacker</i>	Fencer, Pursuer, Striker		1945	90		75+25/CAG
Audacity		carrier / civilian	1941	50		40+10/CAG
Avenger		carrier / civilian	1941	60		45+15/CAG
<i>Avenger</i>	Biter		1941	65		45+15/CAG
<i>Avenger</i>	Biter		1942	70		50+15/CAG
<i>Avenger</i>	Dasher		1942	65		50+15/CAG
Campania		carrier / civilian	1944	65		70+15/CAG
Merchant carrier		carrier / civilian	1943	40		30+5/CAG
Pretoria Castle		carrier / civilian	1943	75		70+15/CAG
Ruler		carrier / civilian	1943	85		90+25/CAG
<i>Ruler</i>	Arbiter		1945	90		95+25/CAG
<i>Ruler</i>	Trouncer		1945	95		100+25/CAG
Vidnex		carrier / civilian	1944	75		75+20/CAG
Arethusa		Cruiser	1935	80		90
<i>Arethusa</i>	Aurora		1935	80	85	90
<i>Arethusa</i>	Galatea, Penelope		1935	90		95
<i>Arethusa</i>	Aurora		1940	85	90	95
<i>Arethusa</i>	Galatea		1941	90		95
<i>Arethusa</i>	Arethusa		1941	90		95

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<i>Arethusa</i>	Aurora		1941	95	100	105
<i>Arethusa</i>	Penelope		1941	90		95
<i>Arethusa</i>	Arethusa		1942	100		105
<i>Arethusa</i>	Arethusa		1944	110	100	110
<i>Arethusa</i>	Aurora		1944	100	105	105
<i>Arethusa</i>	Penelope		1944	95		95
Bellona		Cruiser	1943	85		115
<i>Bellona</i>	Royalist		1943	90		120
<i>Bellona</i>	Black Prince		1944	95		125
<i>Bellona</i>	Bellona, Diadem		1945	90		120
<i>Bellona</i>	Black Prince		1945	95		125
c class (type 1)		Cruiser	1918/1936	50		60
c class (type 2)		Cruiser	1917/1943	70		50
<i>c class (type 2)</i>	Colombo		1943	75		55
<i>c class (type 2)</i>	Caledon		1944	75		60
<i>c class (type 2)</i>	Colombo		1945	80		60
c class (type 3a)		cruiser	1919/1939	50		45
<i>c class (type 3a)</i>	Carlisle, Curacao		1939	55		50
<i>c class (type 3a)</i>	Cairo		1941	60		50
<i>c class (type 3a)</i>	Carlisle		1941	70		60
<i>c class (type 3a)</i>	Curacao		1941	65		55
c class (type 3b)		Cruiser	1917	65		50
<i>c class (type 3b)</i>	Capetown, Cardiff, Ceres		1917	70		50
<i>c class (type 3b)</i>	Capetown		1942	80		55
<i>c class (type 3b)</i>	Caradoc		1942	75		55
<i>c class (type 3b)</i>	Cardiff, Ceres		1943	80		55
Crown Colony (Celyon group)		Cruiser	1943	125		140
<i>Crown Colony (Celyon group)</i>	Uganda		1943	130		145
<i>Crown Colony (Celyon group)</i>	Ceylon		1944	140		165
<i>Crown Colony (Celyon group)</i>	Newfoundland		1944	155	170	175
<i>Crown Colony (Celyon group)</i>	Uganda		1944	135		160
<i>Crown Colony (Celyon group)</i>	Ceylon		1945	140		165
<i>Crown Colony (Celyon group)</i>	Uganda (Quebec)		1945	160		165
Crown Colony (Fiji group)		Cruiser	1940	135		135
<i>Crown Colony (Fiji group)</i>	Fiji		1940	150	145	145
<i>Crown Colony (Fiji group)</i>	Bermuda, Jamaica, Kenya, Nigeria, Gambia		1942	150	145	145
<i>Crown Colony (Fiji group)</i>	Gambia,		1942	155	150	150
<i>Crown Colony (Fiji group)</i>	Bermuda, Jamaica, Nigeria		1943	155	150	150
<i>Crown Colony (Fiji group)</i>	Gambia,		1943	145	140	140
<i>Crown Colony (Fiji group)</i>	Kenya		1943	165	155	150
<i>Crown Colony (Fiji group)</i>	Mauritius		1943	145	140	140
<i>Crown Colony (Fiji group)</i>	Bermuda, Mauritius, Nigeria		1944	155	150	160
<i>Crown Colony (Fiji group)</i>	Gambia,		1944	165	155	160
<i>Crown Colony (Fiji group)</i>	Jamaica,		1944	165	160	170
<i>Crown Colony (Fiji group)</i>	Kenya		1944	175	165	170
<i>Crown Colony (Fiji group)</i>	Bermuda		1945	175	170	175
<i>Crown Colony (Fiji group)</i>	Jamaica,		1945	165	170	170

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Crown Colony (Fiji group)	Kenya		1945	160	170	165
Crown Colony (Fiji group)	Mauritius		1945	160	155	165
Crown Colony (Fiji group)	Nigeria		1945	170	160	165
Danae		Cruiser	1918	70		55
Danae	Dunedin		1941	80		60
Danae	Dauntless, Despatch, Durban		1942	80		60
Danae	Diomedea		1943	80		60
Danae	Danae		1943	80		70
Danae	Dragon		1943	75	80	70
Danae	Danae (Conrad)		1944	60	55	55
Danae	Dragon		1944	85	90	70
Delhi		Cruiser	1942	60		60
Delhi	Delhi		1944	65		65
Dido (group 1)		Cruiser	1940	90		105
Dido (group 1)	Bonaventure, Phoebe		1940	80		100
Dido (group 1)	Bonaventure		1941	90		105
Dido (group 1)	Phoebe		1942	100		115
Dido (group 1)	Dido		1942	95	90	110
Dido (group 1)	Phoebe		1943	110		120
Dido (group 1)	Dido		1943	105	95	110
Dido (group 2)		Cruiser	1940	95		105
Dido (group 2)	Naiad		1940	85		100
Dido (group 2)	Euralyus		1943	100		110
Dido (group 2)	Argonaut		1944	120	115	115
Dido (group 2)	Euralyus		1944	110	105	110
Dido (group 2)	Sirius		1944	100		115
Dido (group 2)	Argonaut		1945	130	125	130
Dido (group 2)	Cleopatra		1945	120	115	120
Dido (group 2)	Sirius		1945	110	125	115
Dido (group 3)		Cruiser	1941	85		105
Dido (group 3)	Charybdis		1943	90	85	100
Dido (group 3)	Scylla		1944	90		110
Edinburgh		Cruiser	1939	130		150
Edinburgh	Edinburgh		1941	135		155
Edinburgh	Edinburgh		1942	150	145	165
Edinburgh	Belfast		1943	135		155
Edinburgh	Belfast		1944	170	160	190
Edinburgh	Belfast		1945	195	165	195
Emerald	Emerald	Cruiser	1926	110		120
Emerald	Enterprise	Cruiser	1926	110		125
Gloucester		Cruiser	1938	135		130
Gloucester	Manchester		1940	150	145	135
Gloucester	Manchester		1941	155	150	145
Gloucester	Liverpool		1944	160		155
Gloucester	Liverpool		1945	155	165	165
Hawkins (type 1)		Cruiser	1919 (rtn 1940/42)	85		75
Hawkins (type 1)	Frobisher		1942	100		95

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Hawkins (type 1)	Hawkins		1942	100		90
Hawkins (type 1)	Frobisher		1944	80		95
Hawkins (type 1)	Hawkins		1944	90		95
Hawkins (type 2)		Cruiser	1938	90		80
Hawkins (type 2)	All		1941	110	105	95
Kent	Australia	Cruiser	1928	165		125
Kent	Australia		1941	175		135
Kent	Australia		1942	155		125
Kent	Australia		1944	175		145
Kent	Australia		1945	155		140
Kent	Berwick, Cornwall	Cruiser	1928	130		140
Kent	Berwick		1941	145		155
Kent	Berwick		1942	135	130	140
Kent	Berwick		1944	165	160	170
Kent	Canberra	Cruiser	1928	165	130	105
Kent	Canberra		1941	190	155	130
Kent	Canberra		1942	200	165	135
Kent	Cumberland	Cruiser	1928	125		135
Kent	Cumberland		1941	135		145
Kent	Cumberland		1943	130	125	135
Kent	Cumberland		1944	150	145	155
Kent	Kent	Cruiser	1928	135		135
Kent	Kent		1941	160		155
Kent	Kent		1943	150	145	140
Kent	Kent		1944	170	165	160
Kent	Suffolk	Cruiser	1928	130		130
Kent	Suffolk		1941	150		145
Kent	Suffolk		1943	145	140	135
Kent	Suffolk		1944	165	160	155
Leander		Cruiser	1932	120		120
Leander	Ajax, Neptune, Orion		1932	130		130
Leander	Leander		1932	125		125
Leander	Neptune		1941	140		140
Leander	Orion		1941	125		125
Leander	Leander		1941	120		120
Leander	Achilles		1942	110		115
Leander	Ajax		1942	135		145
Leander	Leander		1942	140		140
Leander	Orion		1942	140		140
Leander	Ajax		1943	140		150
Leander	Leander		1943	135		135
Leander	Orion		1943	145		145
Leander	Achilles		1944	140		160
Leander	Ajax		1944	150		150
Leander	Achilles		1945	155		165
Leander	Leander		1945	135		140
London		Cruiser	1929	175		115

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London	Devonshire		1941	200		140
London	London		1941	220		155
London	Shropshire		1941	185		125
London	London		1942	225		160
London	Shropshire		1942	205		140
London	Sussex		1942	195	205	140
London	Devonshire		1943	225	215	150
London	London		1943	215		150
London	Shropshire		1943	200		135
London	Devonshire		1944	225		165
London	London		1944	235		170
London	Shropshire		1944	220		155
London	Sussex		1944	200	225	160
London	London		1945	240		175
London	Shropshire		1945	235		170
London	Sussex		1945	190		180
Norfolk		Cruiser	1930	175		130
Norfolk	Norfolk		1930	185		130
Norfolk	Dorsetshire		1941	180		135
Norfolk	Norfolk		1941	205		145
Norfolk	Norfolk		1943	200		140
Norfolk	Norfolk		1944	220		160
Norfolk	Norfolk		1945	240		185
Perth		Cruiser	1934	145		130
Perth	Perth		1934	140		130
Perth	Sydney		1934	130		120
Perth	Hobart		1942	155		140
Perth	Hobart		1945	175		160
Southampton		Cruiser	1937	135		130
Southampton	Glasgow		1940	150		135
Southampton	Newcastle		1941	150		135
Southampton	Birmingham, Sheffield		1942	150		135
Southampton	Newcastle		1942	155		140
Southampton	Birmingham		1943	150	145	130
Southampton	Glasgow, Sheffield		1943	155		140
Southampton	Newcastle		1943	155		135
Southampton	Birmingham		1944	200		170
Southampton	Glasgow		1944	175		160
Southampton	Newcastle		1944	175		155
Southampton	Sheffield		1944	170		150
Southampton	Glasgow		1945	195		160
Southampton	Sheffield		1945	195	200	170
Switftsure		Cruiser	1944	125		175
Switftsure	Switftsure		1944	130		185
Switftsure	Minotaur (Ontario)		1944	125		180
tiger		Cruiser	late 1945	125		185
York		Cruiser	1930	115		100

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York	Exeter		1941	135		130
Erebus		Cruiser (Monitor)	1916	110		80
Erebus	Terror		1941	115		80
Erebus	Erebus		1943	130		95
Erebus	Erebus		1944	160		105
Erebus	Erebus		1945	170		110
Roberts		Cruiser (Monitor)	1941	120		105
Roberts	Abercrombie		1943	125		105
Roberts	Abercrombie		1945	160		120
Roberts	Roberts		1945	135		115
A & B class		Destroyer	1930/1931	40		40
A & B class	Achates, Acheron, Active, Antelope, Anthony, Arrow, Codrington, Beagle, Boadicea, Boreas, Brilliant, Bulldog		1940	30		30
A & B class	Active, Antelope, Anthony, Arrow, Beagle, Bulldog		1941	25		30
A & B class	Boadicea, boreas, Brilliant		1941	30		40
A & B class	Achates (weapons don't change)		1942	30	35	40
A & B class	Active, Antelope,		1942	30		40
A & B class	Anthoney, Arrow,		1942	40		45
A & B class	Anthoney		1943	30		40
A & B class	Beagle, Bulldog		1943	30	35	40
A & B class	Active, Antelope, Anthony		1944	35	40	45
Admiralty S class		Destroyer	1918	50		30
Admiralty S class	Stronghold, Sturdy, Thracian		1918	60	35	20
Admiralty S class	Sabre, Saladin, Sardonyx, Scimitar, Shikari, Scout		1941	60	55	35
Admiralty S class	Sabre, Saladin, Sardonyx, Scimitar, Shikari, Scout		1941	70	65	45
Admiralty V & W class		Destroyer	1917	25		35
Admiralty V & W class	Vimiera, Vanoc, Velox, Verstile, Vortigern		1917	20		30
Admiralty V & W class	Wakeful, Walpole, Wessex, Whirlwind, Windsor		1917	30		40
Admiralty V & W class	Vanoc, Velox, Versatile, Vortigern, Vampire, Vendetta, Westcott		1940	15		30
Admiralty V & W class	Windsor		1940	20		40
Admiralty V & W class	Vortigern		1941	25		35
Admiralty V & W class	Vanoc		1943	25		35
Admiralty V & W class	Vendetta		1943	30		40
Admiralty V & W class	Vivacious		1943	35		45
Admiralty V & W class	Windsor		1943	25	35	45
Admiralty V & W class	Walpole		1944	35	40	45
Admiralty V & W class (LR Escort)		Destroyer	1941	40		30
Admiralty V & W class (LR Escort)	Viscount		1942	50		30
Admiralty V & W class (LR Escort)	Vimy, Wescott		1941	30		20
Admiralty V & W class (LR Escort)	Viscount		1943	40		30
Admiralty V & W class (LR Escort)	Vimy, Wescott		1943	45	40	30
Admiralty V & W class (WAIR)		Destroyer	1939	25		25
Admiralty V & W class (WAIR)	All except Valentine & Whitley		1941	30		30
C Class		Destroyer	1931	40		40
C Class	Assiniboine, Ottawa, Restigouche, St. Laurent		1940	30		30
C Class	Assiniboine		1941	35		40
C Class	Ottawa, Restigouche		1942	35		40

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C Class	Assiniboine		1943	30		35
C Class	Restigouche, St. Laurent		1943	35		45
D class (any C&D class starting with D)			1933	45		45
D class	Dainty, Delight, Diamond, Decoy, Defender, Diana (Margaree), Duncan		1940	35		35
D class	Decoy, Defender, Duncan		1941	30		35
D class	Duncan		1942	35		40
D class	Decoy (Kootenay),		1943	35		40
E & F class		Destroyer	1934/1935	45		50
E & F class	All except Excort, Exmouth & Faulknor		1940	35		40
E & F class	Electra, Foresight, Fury, Forester, Fortune, Foxhount		1941	40		45
E & F class	Faulknor		1941	35		40
E & F class	Fame		1941	30		40
E & F class	Fearless, Firedrake		1941	35		45
E & F class	Faulknor		1942	50		55
E & F class	Fame		1942	35		45
E & F class	Escapade, Forester, Fortune (Saskatchewan)		1943	35		45
E & F class	Express (Canadian Gatineau)		1943	30		45
E & F class	Escapade		1944	40		50
E & F class	Faulknor		1944	50		60
G Class		Destroyer	1936	45		50
G Class	Glowworm		1936	50		55
G Class	Garland, Grafton, Grenade, Greyhound, Griffon		1940	35		40
G Class	Garland (Polish, 1940)		1941	30		40
G Class	Griffon		1941	35		45
G Class	Garland (Polish, 1940)		1942	35		45
G Class	Griffon (Canadian Ottawa)		1943	20	35	45
G Class	Garland		1943	40		55
H Class (any G&H starting with letter H)		Destroyer	1937	50		55
H Class	Hasty, Hanvok, Hereward, Hero, Hostile, Hostspur, Hyperion		1940	35		45
H Class	Hero, Hotspur		1943	35		50
Hunt		Destroyer	1940	30		40
Hunt	All		1941	35		45
Hunt	All		1942	50		55
Hunt	All		1945	55		65
I class		Destroyer	1937	50		60
I class	All		1940	40		45
I class	Imperial		1941	45		55
I class	Icarus, Illex, Impulsive, Intrepid,		1942	45		50
I class	Inglefield		1942	55		60
I class	Isis		1942	35		45
I class	Isis		1943	40		55
J & K Class		Destroyer	1939	50		60
J & K Class	All Except Juno, Kanadahar, Khartoum		1941	50		65
J & K Class	Juno Kandahar		1941	55		70
J & K Class	Janus, Javelin, Jervis, Kelvin, Kimberly		1943	60	55	70
N Class			1940	50		60
N Class	Nerissa (Polish - Piorun)		1940	50		65

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N Class	Napier, Nestor, Norman, Nizam (Australian)		1941	50		65
N Class	Napier, Nestor, Norman, Nizam, Piorun (was Nerissa)		1942	65	60	75
N Class	Noble (Dutch, Van Galen), Nonpareil (Dutch, Tjerk Hiddes) Norseman (Austrialian, Nepal)		1942	55		70
O Class		Destroyer	1941	50		55
O Class	O class group 2: Obdurate, Obedient, Opportune, Orwell		1941	60		65
O Class	Onslaught, Onslow		1944	60		60
O Class	Offa,		1945	55		65
O Class	Onslow		1945	65		70
O Class	Obdurate, Obedient, Orwell		1945	65		75
S class		Destroyer	1943	50		70
S class	Savage		1943	70	50	75
S class	Saumarez		1945	60	65	85
S class	Scorpion, Scourge, Serapis, Svenner (Shark), Stord (Success), Swift		1945	55		75
Scott class [-aircraft X]		Destroyer	1918	50	[40]	50 [40]
Scott class [-aircraft X]	Campbell		1941	50	45[35]	45[35]
Scott class [-aircraft X]	Mackay, Montrose		1941	50	[40]	45[35]
Scott class [-aircraft X]	Stuart		1941	45	[35]	50 [40]
Scott class [-aircraft X]	Douglas		1942	60	55[45]	65[55]
Scott class [-aircraft X]	Mackay		1942	55	50[40]	60[50]
Scott class [-aircraft X]	Malcolm		1942	45	[35]	45[35]
Scott class [-aircraft X]	Montrose		1942	45	[35]	45[35]
Scott class [-aircraft X]	Stuart		1942	35	[25]	40 [30]
Scott class [-aircraft X]	Malcolm (refit should add Hedgehogs)		1943	65	60 (65)[50(55)]	55 (65)[45(55)]
Scott class [-aircraft X]	Stuart		1943	45	55[45]	65[55]
Scott class [-aircraft X]	Campbell		1944	55	50[40]	55[45]
Scott class [-aircraft X]	Mackay		1944	60	55[45]	60[50]
Scott class [-aircraft X]	Montrose		1944	50		45[35]
Scott class [-aircraft X]	Stuart	Troop Transport	1944	35		45[35]
Shakespeare		Destroyer	1917	50		40
Shakespeare	Wallace		1939	40		40
Shakespeare	Keppel, Brake		1941	45		40
Shakespeare	Wallace		1941	50		45
Shakespeare	Keppel		1942	55		55
Shakespeare	Brake		1942	55		50
Shakespeare	Wallace		1943	55		50
Shakespeare	Keppel		1944	55		50
Tribal		Destroyer	1938	35		50
Tribal	Cossack		1940	45		60
Tribal	Eskimo, Mashona, Matabele, Punjabi, Somali,		1940	40		55
Tribal	Ashanti, Bedouin, Maori, Eskimo, Mashona, Matabele, Punjabi, Somali,Sikh, Zulu, Tartar		1941	45		60
Tribal	Nubian		1942	45		60
Tribal	Ashanti, Eskimo, Tartar		1944	50	55	70
Tribal	Nubian		1944	55		75
flower		DD (Corvette)	1940	25		25

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<i>flower</i>	All		1942	35	30	35
Loch		DD (Corvette)	1944	50		40
<i>Loch</i>	All		1941(1944)	60	55	50
S class		submarine	1932 /1935	50		30
<i>S class</i>	Group 3		1942	60		35
<i>S class</i>	All - Group 1 & 2		1943	55		40
<i>S class</i>	All - Group 3		1943	65		40
T class		submarine	1938	100		45
<i>T class</i>	All		1943	110		50
U class		submarine	1941	50		30
<i>U class</i>	All		1941	55		35
<i>Black Swann (wardroom generated)</i>		DD (Corvette)	1939	N/A	40	40
<i>Black Swann (wardroom generated)</i>	Modified Black Swan		1942	N/A	50	50
<i>Battle (Wardroom Generated)</i>	the 1st 6	DD	1945 (1944 what if)	N/A	85	90
<i>Battle (Wardroom Generated)</i>	Option - standard 'early'		1945 (what if 44)	N/A	80	85
<i>Battle (Wardroom Generated)</i>	Option - 'late'		1945 (what if 45)	N/A	95	95

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Name class	Refit Ship Name	TYPE class	Commission /Refit Year	WLPS	WLPA ppm	SHIPS 1.4
United States Navy						
Colorado		Battleship	1921	400		400
Colorado	Maryland		1941	440		430
Colorado	West Virginia		1941	405		405
Colorado	Colorado, Maryland		1942	445		435
Colorado	Colorado		1943	485		465
Colorado	Maryland		1943	495		475
Colorado	Maryland		1944	510		505
Colorado	West Virginia		1944	515	525	520
Colorado	Colorado		1944	505		500
Colorado	Maryland (LGs, & AA same as West Virginia, Local 3)		1945	555	535	520
Colorado	West Virginia (5" guns max range 8", AA =6" range)		1945	520	535	525
Colorado	Colorado		1945	515		510
Iowa		Battleship	1943	850		1040
Iowa	New Jersey		1943	865		1060
Iowa	Missouri		1944	865		1060
Iowa	Iowa		1944	860		1055
Iowa	Wisconsin		1944	870		1065
Iowa	New Jersey, Missouri		1945	870		1065
Iowa	Iowa		1945	870		1065
Montana		Battleship	----	950		1420
Nevada		Battleship	1916	390		455
Nevada	Oklahoma		1941	395		460
Nevada	Nevada		1943	515		585
Nevada	Nevada		1944	510		580
Nevada	Nevada (5" guns max range 8", AA =6" range)		1945	515		585
New Mexico		Battleship	1917	395		550
New Mexico	Idaho, New Mexico		1941	405		555
New Mexico	Idaho, New Mexico		1942	465		600
New Mexico	Idaho		1943	480		645
New Mexico	Mississippi		1943	395	405	560
New Mexico	New Mexico		1943	465		610
New Mexico	Mississippi		1944	470	540	670
New Mexico	New Mexico		1944	540		670
New Mexico	Idaho		1945	530		700
New Mexico	Mississippi		1945	470		725
New Mexico	New Mexico		1945	570		705
New York		Battleship	1914	350		245
New York	All		1941	345		250
New York	All		1942	410		275
New York	All		1943	425		295
New York	All		1944	435		310
New York	All		1945	440		315
North Carolina		Battleship	1941	800		715
North Carolina	North Carolina, Washington		1942	895		790

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North Carolina	North Carolina		1943	940		845
North Carolina	Washington		1943	950		860
North Carolina	North Carolina		1944	1035		910
North Carolina	Washington		1944	1030		915
North Carolina	North Carolina		1945	1030		905
North Carolina	Washington		1945	1035		920
Pennsylvania		Battleship	1916	390		505
Pennsylvania	Arizona, Pennsylvania		1941	395		515
Pennsylvania	Pennsylvania		1942	480		595
Pennsylvania	Pennsylvania		1943	510		655
Pennsylvania	Pennsylvania		1945	510		655
South Dakota		Battleship	1942	825		805
South Dakota	Massachusetts		1942	830		810
South Dakota	South Dakota		1942	805		795
South Dakota	Alabama		1943	855		840
South Dakota	Indiana		1943	860		850
South Dakota	Massachusetts		1943	865		855
South Dakota	South Dakota		1943	855		855
South Dakota	Alabama		1944	865		855
South Dakota	Massachusetts		1944	855		845
South Dakota	South Dakota		1944	865		865
South Dakota	Alabama		1945	860		850
South Dakota	Massachusetts		1945	880		875
South Dakota	South Dakota		1945	870		870
Tennessee		Battleship	1920	400		365
Tennessee	California		1941	440		395
Tennessee	Tennessee		1942	490		590
Tennessee	Tennessee (remove fast track from LG - irrelevant)		1943	640		695
Tennessee	California		1944	590	665	720
Wyoming		Battleship	1912	250		245
Wyoming	Arkansas		1942	295		270
Wyoming	Arkansas		1943	325		310
Wyoming	Arkansas		1945	330		315
Essex		Carrier	1943	270		185+110/CAG
Essex	Bennington, Bon Homme Richard, Randolph, Shangri-La		1944	275	280	195+110/CAG
Essex	Hornet		1945	270	275	190+110/CAG
Essex	Essex		1945	285	290	205+110/CAG
Essex	Shangri-La		1945	300	305	220+110/CAG
Essex	Bon Homme Richard		1945	305	310	235+110/CAG
Essex	Bunker Hill, Intrepid, Lexington, Wasp, Yorktown		1945	310		235+110/CAG
Essex	Antetiam, Lake Champlain, Princeton, Tarawa,Randolph,		1945	310		235+110/CAG
Essex	Bennington, Boxer, Hancock, Ticonderoga		1945	315		240+110/CAG
Independence		Carrier	1943	105		120+35/CAG
Independence	Cabot, Cowpens, Monterey		1944	100		115+35/CAG
Independence	Belleau Wood, Independence		1944	110		125+35/CAG
Independence	Bataan		1945	110		125+35/CAG
Independence	Langley, San Jacinto		1945	100		115+35/CAG

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Lexington		Carrier	1927	260		185+100/CAG
Lexington	Lexington		1942	210	250	170+100/CAG
Lexington	Saratoga		1942	285	265	175+100/CAG
Lexington	Saratoga		1943	300	280	195+100/CAG
Lexington	Saratoga		1944	415	355	285+100/CAG
Midway		Carrier	Sep-45	450		290+170/CAG
Ranger		Carrier	1934	220		100+95/CAG
Ranger	Ranger		1941	225		105+95/CAG
Ranger	Ranger		1942	265		135+95/CAG
Ranger	Ranger		1943	240		120+95/CAG
Ranger	Ranger		1944	230		95+95/CAG
Wasp		Carrier	1940	240		100+105/CAG
Wasp	Wasp		1942	275		115+105/CAG
Yorktown		Carrier	1937	280		120+120/CAG
Yorktown	Enterprise, Yorktown		1940	300		125+120/CAG
Yorktown	Hornet		1941	300		125+120/CAG
Yorktown	Enterprise		1942	310		135+120/CAG
Yorktown	Hornet, Yorktown		1942	305		130+120/CAG
Yorktown	Enterprise		1943	375		180+120/CAG
Yorktown	Enterprise		1945	385		190+120/CAG
Bogue		carrier / civilian	1942	100		60+35/CAG
Bogue	Altamaha, Barnes, Bouge, Bretan, Card, Core, Nassau, croatan, Block Island, Copahee, Prince William		1943	110	120	80+35/CAG
Bogue	Croatan, Copahee		1943	115	125	85+35/CAG
Bogue	Prince William		1943	105		75+35/CAG
Bogue	Block Island		1944	120		95+35/CAG
Bogue	Prince William		1944	115		85+35/CAG
Bogue	Altamaha, Barnes, Bouge, Bretan, Card, Core, Nassau, Prince William		1945	130	140	105+35/CAG
Bogue	Copahee		1945	120	140	105+35/CAG
Bogue	Croatan		1945	125		100+35/CAG
Casablanca		carrier / civilian	1943	95		85+30/CAG
Casablanca	NOT Bismark Sea, Gambier Bay, Klinin Bay, Liscome Bay, Mommaney Bay & St. Lo		1945	100		90+30/CAG
Long Island		carrier / civilian	1941	75		50+20/CAG
Long Island	Long Island		1942	85		60+20/CAG
Long Island	Long Island		1944	95		65+20/CAG
Long Island	Long Island		1945	105		75+20/CAG
Sangamon		carrier / civilian	1942	100		80+35/CAG
Sangamon	ALL		1943	105		85+35/CAG
Sangamon	ALL		1944	115		90+35/CAG
Sangamon	ALL		1945	145	135	110+35/CAG
Alaska		Cruiser	1944	250	455	570
Atlanta (group 1)		Cruiser	1941	70		110
Atlanta (group 1)	San Diego, San Juan		1943	90		130
Atlanta (group 1)	San Diego		1944	105		140
Atlanta (group 1)	San Juan		1945	110		145
Atlanta (group 2)		Cruiser	1943	100		135

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Atlanta (group 2)	Tucson		1945	70		130
Atlanta (group 2)	Oakland		1945	90		140
Baltimore		Cruiser	1943	150		315
Baltimore	Pittsburgh		1944	135		300
Baltimore	Columbus, Helena, St. Paul		1945	135		300
Baltimore	Bremerton, Chicago, Fall River, Los Angeles, Macon		1945	140		305
Brooklyn		Cruiser	1937	110		145
Brooklyn	All		1941	115		150
Brooklyn	All		1942	125		160
Brooklyn	Savannah		1942	145		180
Brooklyn	All less Savannah		1944	135		180
Brooklyn	Savannah		1944	155		190
Brooklyn	All less Boise, Pheonix & Savannah		1944	140	165	205
Brooklyn	Savannah		1944	160		200
Cleveland		Cruiser	1942	100		170
Cleveland	Denver, Montpelier, Santa Fe		1942	115		185
Cleveland	Biloxi, Houston		1943	150		195
Cleveland	Birmingham, Mobile		1943	155		200
Cleveland	Cleveland, Coumbia		1943	105		175
Cleveland	Astoria, Atlanta, Duluth, Miami, Oklahama City, Viksburg, Wiles-Barre		1944	155		200
Cleveland	Pasadena, Springfield, Vincennes, Topeka		1944	150		195
Cleveland	Amsterdam, Portsmouth		1945	150		195
Cleveland	Dayton, Little Rock, Providence, Topeka		1945	155		200
Des Moines		Cruiser	1948	180		380
Des Moines	Des Moines		1948	190	200	400
Des Moines	Orignal Plans		1948	160		380
Fargo		Cruiser	1945	105		200
New Orleans		Cruiser	1934	150		175
New Orleans	Astoria, Minneapolis, New Orleans		1941	155		180
New Orleans	Astoria, Quincy, Vincennes, Minneapolis, New Orleans, San Francisco, Tuscaloosa		1942	195		205
New Orleans	Minneapolis, New Orleans, San Francisco, Tuscaloosa		1943	215		230
New Orleans	Minneapolis, New Orleans, San Francisco, Tuscaloosa		1944	220		235
New Orleans	Minneapolis, New Orleans, San Francisco, Tuscaloosa		1945	210		225
Northampton		Cruiser	1930	130		125
Northampton	Chicago, Chester, Northampton		1940	140		135
Northampton	Augusta, Chester, Chicago,		1941	145		140
Northampton	Louisville		1941	135	145	140
Northampton	Houston		1941	135		130
Northampton	Northampton		1941	145		140
Northampton	Chicago		1942	150		145
Northampton	Northampton		1942	145		140
Northampton	Augusta		1943	165		160
Northampton	Louisville		1943	155	165	160
Northampton	Augusta		1944	160		165
Northampton	Chester (AA Battery gains max range 5")		1944	145	155	150

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Northampton	Louisville		1945	155		160
Northampton	Chester		1945	150	160	160
Omaha		Cruiser	1923	90		115
Omaha	Concord, Marblehead, Memphis, Milwaukee, Omaha, Richmond, Trenton		1923	95		120
Omaha	Concord		1941	100		125
Omaha	Cincinnati, Raleigh		1941	95		120
Omaha	Detroit		1941	100		125
Omaha	Marblehead,		1941	100		130
Omaha	Memphis, Milwaukee, Omaha, Trenton, Richmond		1941	105		135
Omaha	Concord, Marblehead, Milwaukee, Omaha, Trenton, Richmond		1942	110		135
Omaha	Cincinnati, Raleigh, Detroit		1942	110		135
Omaha	Memphis		1942	115		145
Omaha	Cincinnati		1943	125		145
Omaha	Memphis		1943	130		150
Omaha	Raleigh		1944	125		145
Omaha	Cincinnati		1944	115		150
Omaha	Detroit		1944	130		150
Omaha	Concord, Marblehead, Omaha, Trenton		1944	125		150
Omaha	Richmond		1944	110	120	145
Omaha	Detroit		1945	110		145
Oregon City		Cruiser	1946	170		295
Pensacola		Cruiser	1929	125		125
Pensacola	Pensacola		1940	135		135
Pensacola	Pensacola		1941	155		150
Pensacola	Salt Lake		1941	145		140
Pensacola	Pensacola		1942	160		155
Pensacola	Salt Lake		1942	150		145
Pensacola	Pensacola		1943	185	180	175
Pensacola	Salt Lake		1943	170		165
Pensacola	Pensacola		1944	185	180	175
Pensacola	Salt Lake		1944	170		165
Pensacola	Pensacola		1945	190	185	180
Portland		Cruiser	1933	140		145
Portland	Indianapolis, Portland		1942	155		160
Portland	Indianapolis		1943	170		175
Portland	Portland		1943	165		170
Portland	Portland		1944	175		180
Portland	Indianapolis		1945	180		185
St Louis		Cruiser	1939	110		145
St Louis	Helena, St Louis		1941	115		155
St Louis	Helena, St Louis		1942	135		160
St Louis	Helena, St Louis		1943	155		185
St Louis	St Louis		1944	175		
Wichita		Cruiser	1939	145		200
Wichita	Wichita		1941	155		215
Wichita	Wichita		1942	180		245

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Wichita	Wichita		1944	185		250
Wichita	Wichita		1945	190		255
Bagley		Destroyer	1937	60		50
Bagley	Bagley, Blue, Ralph Talbot, Helm, Mugford, Patterson, Henlye, Jarvis		1942	65		55
Bagley	Blue, Ralph Talbot, Helm, Mugford, Patterson		1942	70		60
Bagley	Bagley, Henley		1943	70		60
Bagley	Bagley, Helm, Mugford, Patterson		1944	75		65
Beham		Destroyer	1939	60		50
Beham	Benham, Ellet		1942	65		60
Beham	Lange, Mayrant, Rhind, Stack, Tippe, Wilson, Rowan, Sterett		1942	60		50
Beham	Mayrant		1942	65		55
Beham	Lange		1943	70		65
Beham	Mayrant, Rhind, Stack, Tippe, Wilson, Rowan, Sterett		1943	70		65
Beham	Ellet		1944	70		65
Beham	Rhind, Stack, Tippee, Wilson, Sterett		1944	75		70
Beham	Lange		1945	70		65
Beham	Sterett		1945	75	70	65
Benson		Destroyer	1940	60		60
Benson	All less Mayo (inc Mayo, else Mayo '44 Refit doesn't work)		1941	55		55
Benson	All less Mayo		1942	60		60
Benson	Mayo		1942	70	(65)	70 (65)
Benson	All less Mayo		1942	65		65
Benson	Mayo		1944	80	(75)	75 (70)
Benson	All less Mayo, Lonsdale (Light Guns AD to 2)		1944	75		80
Benson	Lonsdale (light guns AD to 2)		1944	75	70	70
Clemson		Destroyer	1919	60		30
Clemson	Alden, Barker, Borie, Bulmer, Chandler, Dahlgren, Edsall, Fox, John D Edwards, John D Ford, Parrott, Paul Jones, Peary, Pillsbury, Pope, Stewart, Whipple		1919	65		35
Clemson	Childs, Clemson, George E. Badger, Goldsborough, Hulbert, William B. Preston, Williamson	Seaplane tender	1939	30		20
Clemson	Preble, Pruitt, Sicard, Tracy	Minelayer	1939	35		20
Clemson	Ballard, Belknap, Gillis, Greene, Osmond Ingram, McFarland, Thornton	Seaplane tender	1940	30		20
Clemson	Chandler, Hopkins, Hovey, Long, Perry, Southard, Trever, Wasmuth, Zane	Minesweeper	1940	30		25
Clemson	MacLeish, Simpson	DDE	1940	45		30
Clemson	Bainbridge, Broome, Dallas, Decatur, McCormick, Overton, Reuben James, Sturtevant, Truxtun	DDE	1941	45		30
Clemson	Bainbridge, Broome, , Dallas, Decatur, MacLeish, McCormick, Overton, Simpson,	DDE	1942	50		35
Clemson	Chandler, Zane	Minesweeper	1942	35		30
Clemson	Brooks, Gilmer, Humphreys, Sands	Assault Transport	1942	40		25
Clemson	Preble, Pruitt, Sicard, , Tracy	Minelayer	1942	35		30
Clemson	Thornton	Seaplane tender	1942	30		30
Clemson	Ballard, Childs, Gillis, William B. Preston, Williamson	Seaplane tender	1942	35		30
Clemson	Dahlgren, Fox,	Destroyer	1942	65	60	30

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Clemson	Goff, Hatfield, Kane, King, Lawrence, Litchfield	Destroyer	1942	60		30
Clemson	Bainbridge, Decatur, MacLeish, McCormick, Simpson, Belknap, Clemson, George E. Badger, Goldsborough, Greene, Hulbert, Osmond Ingram, McFarland	DDE	1943	55		45
Clemson	Alden, Barker, Barry, Borie, Bulmer, John D. Edwards, John D. Ford, Parrott, Paul Jones, Whipple	Seaplane tender	1943	35		30
Clemson	Hovey, Perry, Southard, Trever	Destroyer	1943	65		30
Clemson	Overton, Kane	Minesweeper	1943	35		30
Clemson	Noa	Assault Transport	1943	35		35
Clemson	Barry	Assault Transport	1943	35	30	30
Clemson	Hopkins, Long	Assault Transport	1943	35		35
Clemson	Hopkins, Long	Minesweeper	1944	35		30
Clemson	Belknap, Clemson, George E. Badger, Goldsborough, Greene, Osmond Ingram	Minesweeper	1944	40	35	35
Farragut (light guns should be AD3)		Destroyer	1934	60	(65)	45 (50)
Farragut (light guns should be AD3)	All		1941	65	(70)	50 (55)
Farragut (light guns should be AD3)	All		1942	70	(75)	50 (55)
Farragut (light guns should be AD3)	Aylwin, Dewey		1942	75	(80)	55 (60)
Farragut (light guns should be AD3)	Aylwin, Dewey		1943	80	(85)	60 (65)
Farragut (light guns should be AD3)	All others		1943	75	(80)	55 (60)
Farragut (light guns should be AD3)	Dale, Macdonough, Monaghan, Hull, Worden		1943	80	(85)	60 (65)
Farragut (light guns should be AD3)	Dale, Macdonough, Monaghan, Dewey, Farragut		1944	85	(90)	70 (75)
Fletcher		Destroyer	1942	60	80	80
Fletcher	Fletcher, Nicholas, O'Bannon		1942	55	75	75
Fletcher	Fletcher, Nicholas, O'Bannon		1943	60	80	80
Fletcher	Jenkins, Stevens, Halfrod		1942/43	45	65	70
Fletcher	Jenkins, Stevens, Halfrod		1943	50	70	75
Fletcher	All not listed		1943	65	85	95
Fletcher	Fletcher, Nicholas, O'Bannon		1944	65	85	95
Fletcher	Jenkins, Stevens, Halfrod		1944	50	70	80
Fletcher	All not listed		1944	70	90	105
Fletcher	Radar Pickets		1945	60	80	90
Gleaves		Destroyer	1940	60		55
Gleaves	Gleaves, Kearny, Niblock, Plunkett		1940	70		60
Gleaves	Gleaves, Kearny, Niblock, Plunkett		1941	70		60
Gleaves	All others		1942	65		60
Gleaves	Gleaves, Kearny, Niblock, Plunkett		1942	75		65
Gleaves	Eberle, Edison, Ericsson, Livermore, Ludlow, Nicholson, Grayson, Gwin,		1943	70		70
Gleaves	Swanson, Woolsey, Wilkes		1943	75		75
Gleaves	Gleaves, Kearny, Niblock, Plunkett		1943	75	80	85
Gleaves	Gleaves, Kearny, Niblock, Plunkett		1943	85		85
Gleaves	Eberle, Edison, Ericsson, Livermore, Ludlow, Nicholson,		1944	75		75
Gleaves	Eberle, Edison, Ericsson, Livermore, Grayson, Swanson, Woolsey		1945	65		70
Gleaves	Gleaves, Kearny, Niblock, Plunkett		1945	75		80
Gridley		Destroyer	1937	60		50
Gridley	All		1943	75		65
Gridley	All		1944	80		70
Gridley	All		1945	60		60

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John C. Butler		Destroyer	1944	60		65
John C. Butler	All		1945	55		65
Mahan		Destroyer	1936	60		55
Mahan	all less Cassin, Downes		1942	70		65
Mahan	Case, Drayton, Fanning, Flusser, Mahan, Reid, Smith, Lamson, Shaw		1943	80		75
Mahan	Conyngham, Cummings, Dunlap, Perkins		1943	70		65
Mahan	Cassin, Downes		1944	65	75	75
Mahan	Conyngham, Cummings,		1944	75		75
Mahan	Dunlap		1944	70		65
Mahan	Lamson		1945	75	70	65
Mahan	Shaw		1945	75	75	70
Porter		Destroyer	1936	55		45
Porter	All		1941	60		50
Porter	All		1942	70		55
Porter	All less Porter		1943	75		65
Porter	All less Porter, Selfridge		1944	80		75
Porter	McDougal		1945	85		85
Porter	Phelps, Winslow, Selfridge		1945	70		75
Sims (light guns should be AD3)		Destroyer	1939	60	65	45 (55)
Sims (light guns should be AD3)	Anderson, Hammann, Hughes, Mustin, Sims		1939	70	75	50 (55)
Sims (light guns should be AD3)	Anderson, Hammann, Hughes, Mustin, Sims		1940	75	80	50
Sims	Anderson, Hammann, Hughes, Mustin, Sims		1941	75	80	50
Sims	Buck, Roe, Morris, Russell, O'Brien, Walke, Wainwright		1941	60	65	50
Sims	Anderson		1942	80	85	60
Sims	Hammann, Hughes, Mustin, Sims		1942	85	90	65
Sims	Buck, Roe, Morris, Russell, O'Brien, Walke, Wainwright		1942	70	75	60
Sims	Anderson		1943	95	90/95	75
Sims	Hughes, Mustin		1943	90	90/95	75
Sims	Buck, Roe, Morris, Russell, Wainwright		1943	75	85	70
Sims	Wainwright		1944	75	80	70
Sims	Mustin		1945	85	75	65
Sims	Morris, Russell		1945	70	75	65
Sims	Wainwright		1945	80	85	70
Gato		Submarine	1941	50		35
Gato	All		1942	65		50
Gato	All		1943	80		50
Gato	All		1944	90		50
Allen M Sumner (wardroom Generated)		Destroyer	1944	N/A	115	110

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Name class	Refit Ship Name	TYPE class	Commission /Refit Year	WLPS ppm	WLPA	SHIPS 1.4
Marine National (French)						
Bretagne		Battleship	1916	350		245
Bretagne	Lorraine		1939	330	365	265
Bretagne	Lorraine		1940	325	345	245
Bretagne	Lorraine		1944	330	350	250
Courbet		Battleship	1913	250		190
Dunkerque (5 x 5.1" Lights guns AD2)		Battleship	1938	360		455 (435)
Dunkerque	Strasbourg		1938	370		460 (435)
Richelieu (Q+R work in Rear)		Battleship	1940	450		600 (615)
Richelieu	Jean Bart		1940	175	350	350
Richelieu	Jean Bart		1942	190	365	370
Richelieu	Richelieu		1943	585		760 (775)
Richelieu	Richelieu		1945	585		760 (775)
Bearn		Carrier	1927	160		85+50/CAG
Bearn	Bearn		1943	160		70
Algerie		Cruiser	1934	135		130
Duguay Trouin		Cruiser	1926	145		135
Duguay Trouin	Duguay Trouin		1926	165		155
Duguay Trouin	Duguay Trouin		1943	140		140
Duguay Trouin	Duguay Trouin		1944	140		150
Duquesne		Cruiser	1928	135		145
Duquesne	Duquesne, Tourville		1945	115	150	155
Emile Bertin		Cruiser	1935	100		135
Emile Bertin	Emile Bertin		1943	110		170
Jeanne d'Arc		Cruiser	1931	75		80
Jeanne d'Arc	Jeanne d'Arc		1943	65		80
La Galissonniere		Cruiser	1936	90		120
La Galissonniere	Gloire, Georges, Leygues, Montcalm		1943	115		140
La Galissonniere	Georges, Leygues, Montcalm		1945	130		150
Suffren		Cruiser	1935	125		105
Suffren	Dupleix		1935	155	135	120
Suffren	Colbert, Foch		1935	135	130	110
Suffren	Dupleix		1942	160	140	125
Suffren	Suffren		1945	105	150	130
Bourrasque		Destroyer	1926	40		45
Bourrasque	Mistral, Ouragan		1941	40		45
Bourrasque	Typhon		1942	25		40
Bourrasque	Tramontane		1942	30		40
Bourrasque	Temete, Trombe, Simoun		1943	45		40
Bourrasque	Simoun		1944	35		35
Chacal		Destroyer	1926	40		45
Chacal	Leopard		1940	55		55
Chacal	Leopard		1942	60		60
Chacal	Tigre		1944	40		50
Le Fantasque		Destroyer	1935	60		65

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<i>Le Fantasque</i>	Le Triomphant		1940	75		85
<i>Le Fantasque</i>	Le Fantasque, Le Malin		1943	75	80	90
<i>Le Fantasque</i>	Le Terrible		1943	70	75	85
<i>Le Fantasque</i>	Le Triomphant		1944	75		85
Mogador		Destroyer	1939	65		70
<i>Mogador</i>	Mogador		1941	60		70
Minerve		Submarine	1932	60		40
Surcouf		Submarine	1934	90		80

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Name class	Refit Ship Name	TYPE class	Commission /Refit Year	WLPS ppm	WLPA	SHIPS 1.4
KriegsMarien (German)						
Bismark		Battleship	1940	450	600	655
Bismark	Bismark		1941	455	605	660
Bismark	Tirpitz		1941	515	665	695
Bismark	Tirpitz		1943	520	670	700
Bismark	Tirpitz		1944	525	675	705
H 39		Battleship	---- (44)	700		880
O class		Battleship	---- (44)	360		525
Scharnhorst		Battleship	1938	425		550
Scharnhorst	Gneisenau		1941	430		555
Scharnhorst	Gneisenau, Scharnhorst		1942	490	420	565
Scharnhorst	Scharnhorst		1943	495	425	570
Scharnhorst	Scharnhorst		1944	695	525	665
Schleswig Holstien		Battleship	1908	130		105
Schleswig Holstien	Schleswig Holstien		1944	130	140	120
Graf Zeppelin		Carrier	----(43)	210		190+50/CAG
Jade		Carrier	---- (43)	110		95+30/CAG
Admiral Hipper		Cruiser	1939	200		185
Admiral Hipper	Prinz Eugen		1939	205		190
Admiral Hipper	Prinz Eugen		1942	210		195
Admiral Hipper	Admiral Hipper		1942	205		190
Admiral Hipper	Prinz Eugen		1944	215		195
Admiral Hipper	Admiral Hipper		1944	210		190
Admiral Hipper	Prinz Eugen		1945	250		220
Admiral Hipper	Admiral Hipper		1945	225		210
Deutschland		Cruiser	1933	280		200
Deutschland	Admiral Scheer, Lutzow		1933	275		195
Deutschland	Admiral Graf Spee		1939	300	290	200
Deutschland	Admiral Scheer		1940	295	285	200
Deutschland	Lutzow		1941	295	285	200
Deutschland	Admiral Scheer		1942	300	290	205
Deutschland	Lutzow		1944	315	305	220
Deutschland	Admiral Scheer		1945	315	305	220
Deutschland	Lutzow		1945	315	305	220
Emden		Cruiser	1925	75		55
Emden	Emden		1940	80		60
Emden	Emden		1942	100		85
Emden	Emden		1944	110	115	95
Konigsberg		Cruiser	1929	110		130
Konigsberg	Karlsruhe		1929	115		135
Konigsberg	Koln		1929	100		120
Konigsberg	Koln		1941	80	90	115
Konigsberg	Koln		1942	90	100	125
Konigsberg	Koln		1944	95	105	130
Konigsberg	Koln		1945	100	120	135

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Leipzig		Cruiser	1931	110		130
Leipzig	Nurnberg		1931	115		135
Leipzig	Nurnberg		1939	120		140
Leipzig	Nurnberg		1941	120		145
Leipzig	Leipzig		1941	70	80	100
Leipzig	Nurnberg		1942	120	115	140
Leipzig	Leipzig		1943	80	90	110
Leipzig	Nurnberg		1944	130	125	150
Leipzig	Leipzig		1944	65	85	110
Leipzig	Nurnberg		1945	140	135	160
M class		<i>Cruiser</i>	---(43)	160		170
P class		<i>Cruiser</i>	---(42)	250		295
Spahkreuzer		<i>Cruiser</i>	---(43)	90		130
Type 1934/1934A		Destroyer	1937	55		65
Type 1934/1934A	Z4-8, Z10, Z14-16		1941	60		75
Type 1934/1934A	Z14		1944	65		80
Type 1934/1934A	Z5		1944	70		90
Type 1934/1934A	Z10, Z15		1944	75		95
Type 1936		Destroyer	1938	55		70
Type 1936	Z20		1941	60		75
Type 1936	Z20		1944	65		80
Type 1936	Z20		1945	70		85
type 1936A		Destroyer	1940	60		75
type 1936A	Z28		1940	60		75
type 1936A	Z23		1942	65	70	85
type 1936A	Z25		1942	65	70	85
type 1936A	Z24		1943	65	70	85
type 1936A	Z25		1945	75	80	90
type 1936A	Z28		1945	75		95
type 1936A	Z29		1945	85		100
Type 1936A (mob)		Destroyer	1942	65		85
Type 1936A (mob)	Z31		1942	60		80
Type 1936A (mob)	Z31		1944	65		85
Type 1936A (mob)	Z31		1945	75		105
Type 1936A (mob)	Z33		1945	80		100
Type 1936A (mob)	Z34		1945	70		90
Type 1936A (mob)	Z38		1945	70		90
Type 1936A (mob)	Z39		1945	75		90
Type 1939		Destroyer	1942	45		45
Type 1939	T31, T32		1944	50		50
Type 1939	T33-36		1944	55		55
ZH1		Destroyer	1942	50		50
VII		Submarine	1936	45		20
VII	T-1 Torpedo		1936	50		20
VII	T-1 Torpedo		1943	40		20
VII	T-1 Torpedo		1943	45		20
VII	T-1 Torpedo		1944	50		25

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VII	T-2 Torpedo (Option)		1936	55	15
VII	T-2 Torpedo (Option)		1936	60	15
VII	T-2 Torpedo (Option)		1943	50	15
VII	T-2 Torpedo (Option)		1943	55	15
VII	T-2 Torpedo (Option)		1944	60	20
VII	T-3 Torpedo (Option)		1943	55	15
VII	T-3 Torpedo (Option)		1943	60	15
VII	T-3 Torpedo (Option)		1944	65	20
VII	T-4 Torpedo (Option)		1944	65	15
VII	T-4 Torpedo (Option)		1944	75	20
IX		Submarine	1938	50	45
IX	T-1 Torpedo		1938	55	45
IX	T-1 Torpedo		1943	45	40
IX	T-1 Torpedo		1943	50	40
IX	T-1 Torpedo		1944	55	45
IX	T-2 Torpedo (Option)		1936	60	30
IX	T-2 Torpedo (Option)		1936	65	30
IX	T-2 Torpedo (Option)		1943	55	30
IX	T-2 Torpedo (Option)		1943	60	30
IX	T-2 Torpedo (Option)		1944	65	35
IX	T-3 Torpedo (Option)		1943	60	30
IX	T-3 Torpedo (Option)		1943	65	30
IX	T-3 Torpedo (Option)		1944	70	35
IX	T-4 Torpedo (Option)		1944	70	30
IX	T-4 Torpedo (Option)		1944	80	35
XXI		Submarine	1944	70	100
XXI	T-4 Torpedo (Option)		1944	95	75

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Name class	Refit Ship Name	TYPE class	Commission /Refit Year	WLPS ppm	WLPA	SHIPS 1.4
Imperial Japanese Navy						
Fuso		Battleship	1915	370		355
Fuso	Fuso		1940	375		360
Fuso	Fuso		1940	435		405
Fuso	Yamashiro		1940	430		400
Ise		Battleship	1917	370		360
Ise	Hyuga		1942	355		330
Kongo		Battleship	1913	375		325
Kongo	Haruana		1943	430	410	355
Kongo	Kongo		1943	365	370	325
Kongo	Haruana		1944	445	425	370
Kongo	Kongo		1944	430		375
Kongo	Haruana		1945	450	430	375
Nagato		Battleship	1920	725		605
Nagato	Nagato		1944	790		695
Nagato	Nagato		1945	820		710
Nagato	Nagato		1945	740		665
Yamato		Battleship	1941	1000		1065
Yamato	Musashi		1942	1005		1070
Yamato	Yamato		1943	1005		1070
Yamato	Musashi		1944	1090		1195
Yamato	Yamato		1944	1160		1220
Yamato	Yamato		1945	1165		1225
Ise		BB/Carrier	1943	350		300+CAG
Ise	Hyuga		1944	360		310+CAG
Ise	Ise		1944	380		335+CAG
Akagi		Carrier	1927	250		135+85 /CAG
Chitose		Carrier	1943	110		95+35/CAG
Chitose	Chitose		1944	115		100+35/CAG
Hiryu		Carrier	1939	230		130+70/CAG
Hiyo		Carrier	1942	200		100+60/CAG
Hiyo	Hiyo		1944	210		110+60/CAG
Hiyo	Jun'yo'		1944	215		115+60/CAG
Hosho		Carrier	1922	90		60+20/CAG
Hosho	Hosho		1941	85		55+20/CAG
Hosho	Hosho		1942	65		45+10/CAG
Kaga		Carrier	1928	375		150+90/CAG
Kaga	Kaga		1941	380		155+90/CAG
Ryuho		Carrier	1942	110		90+35/CAG
Ryuho	Ryuho		1943	115		95+35/CAG
Ryuho	Ryuho		1944	120		100+35/CAG
Ryujo		Carrier	1933	140		90+50/CAG
Ryujo	Ryujo		1940	145		95+50/CAG
Ryujo	Ryujo		1942	150		100+50/CAG
Shinano		Carrier	1928	220		170+60/CAG

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Shokaku		Carrier	1941	275		145+90/CAG
Shokaku	Shokaku /Zuikaku		1942	280		150+90/CAG
Shokaku	Shokaku /Zuikaku		1943	285		155+90/CAG
Shokaku	Zuikaku		1944	290		160+90/CAG
Soryu		Carrier	1937	230		130+70/CAG
Taiho		Carrier	1944	280		150+90/CAG
Zuiho		Carrier	1940	110		90+35/CAG
Zuiho	Zuiho		1943	120		100+35/CAG
Zuiho	Zuiho		1944	125		105+35/CAG
Agano		Cruiser	1942	110		140
Agano	Sakawa		1944	150		180
Agano	Sakawa		1945	155		185
Aoba		Cruiser	1926	225		140
Aoba	Aoba		1943	200		100
Aoba	Aoba		1944	235		125
Furutaka		Cruiser	1926	225		150
Kitakami (5 sets of 4AD type 93 per side)		Cruiser	1941	200	(160)	(125)
Kitakami	Oi		1942	170	(65)	(55)
Kitakami	Kitakami		1942	165	(125)	(100)
Kitakami	Kitakami		1945	120	(60)	(60)
Kuma		Cruiser	1920	60		55
Kuma	Kuma,Toma		1920	65		60
Kuma	Kiso, Kitakami, Oi		1940	100		55
Kuma	Kuma,Toma		1940	105		60
Kuma	Kiso, Toma		1944	210		85
Kuma	Kuma		1944	115		65
Mogami		Cruiser	1937 (1940 refit)	280		250
Mogami	ALL		<1940	180		190
Mogami	Mogami		1943	240		240
Mogami	Mogami		1944	265		265
Mogami	Kumano,Suzuya		1944	310		275
Myoko		Cruiser	1929/1940	275		230
Myoko	ALL		1944	275		205
Nagara		Cruiser	1922	70		60
Nagara	Abukuma		1941	100	85	70
Nagara	Isuzu		1943	70		70
Nagara	Abukuma		1944	115	95	80
Nagara	Kinu		1944	65	75	65
Nagara	Nagara		1944	105	95	85
Nagara	Natori		1944	65	75	65
Nagara	Isuzu		1944	115	95	90
Nagara	Abukuma		1945	120	100	85
Oyodo		Cruiser	1943	80		155
Oyodo	Oyodo		1944	90		155
Sendai		Cruiser	1924	80		70
Sendai	Jintsu, Naka		1941	140	100	80
Sendai	Naka		1943	145	105	90

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Takao		Cruiser	1932	270	255	220
Takao	Chokai, Maya		1939	220	190	175
Takao	Maya		1940	215	185	170
Takao	Maya		1941	255	195	185
Takao	Chokai		1941	260	200	190
Takao	Atago, Takao		1942	290	270	230
Takao	Maya		1944	305	215	215
Takao	Chokai		1944	285	235	210
Takao	Atago, Takao		1944	315	300	255
Tenryu		Cruiser	1919	50		60
Tone (LG is -2 AP)		Cruiser	1939	250		215 (210)
Tone (LG is -2 AP)	Chikuma, Tone		1944	275		230 (230)
Tone (LG is -2 AP)	Tone		1945	280		235 (235)
Yubari		Cruiser	1923	55		55
Yubari	Yubari		1944	55		60
Akatsuki			1932	60		65
Akatsuki	Hibiki, Ikazuchi, Inazuma		1943	70		100
Akatsuki	Hibiki		1944	80		115
Akatsuki	Inazuma		1944	75		105
Akizuki		Destroyer	1942	60		85
Akizuki	Hatsuzuki		1943	65		90
Akizuki	Akizuki, Shimotsuki, Wakatsuki, Fuyutsuki, Hanazuki, Harutsuki, Suzutuki		1944	65		90
Akizuki	Fuyutsuki, Hanazuki, Harutsuki, Suzutuki		1945	80	75	105
Akizuki	Natsuzuki, Yoizuki		1945	70	75	105
Asashio		Destroyer	1937	60		90
Asashio	Arashio		1943	65		100
Asashio	Michishio		1943	60		90
Asashio	Michishio, Asagumo, Kasumi, Yamagumo		1944	65	60	100
Fubuki Group 1		Destroyer	1928	50		55
Fubuki Group 1	Hatsuyuki, Isonmai, Shkirakumo, Usugumo, Uranami		1943	55	60	90
Fubuki Group 1	Shirakumo, Usugumo, Uranami		1944	65		105
Fubuki Group 2	group 2	Destroyer	1939	55		65
Fubuki Group 2	Akebono, Ushio, Amigairi, Shikinami, Sazanami		1943	60	65	105
Fubuki Group 2	Yugiri		1943	70		115
Fubuki Group 2	Akebono, Ushio, Amigairi		1944	70		115
Hatsuharu		Destroyer	1933	60		75
Hatsuharu	Hatsubaru, Hatsushimo, Wakaba		1944	65	60	85
Kagero		Destroyer	1939	100		90
Kagero	Amatsukaze, Hamakaze, Isokaze, Yukikaze, Maikaze, Nowaki, Tanikaze, Urakaze		1943	110	105	100
Kagero	Akigumo, Shiranui		1944	120	110	100
Kagero	Hamakaze, Isokaze, Yukikaze, Maikaze, Nowaki, Tanikaze, Urakaze		1944	110	105	100
Kagero	Hamakaze, Isokaze, Yukikaze		1945	115	110	105
Kagero	Amatsukaze		1945	110	90	55
Kamikaze		Destroyer	1922	60		35
Kamikaze	Hayate, Asanagi, Yunagi		1922	70	65	40

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<i>Kamikaze</i>	Asakaze, Kamikaze, Harukaze, Oite, Matsukaze, Hatakaze		1941	60	50	35
<i>Kamikaze</i>	Asanagi, Yunagi		1941	70	50	35
<i>Kamikaze</i>	Asakaze, Kamikaze, Harukaze, Oite, Matsukaze, Hatakaze		1944	65	55	40
<i>Kamikaze</i>	Asanagi, Yunagi		1944	75	55	40
Matsu		Destroyer	1944	55		55
Momi		Destroyer	1919	60		20
<i>Momi</i>	Kiku, Aoi, Fuji,Hagi, Hishi, Susuki, Tade, Tsuta, Yamogi (P31-38)		1940	60	50	15
<i>Momi</i>	Ashi, Kaki, Nire, Sumire, Taki		1940	50	35	10
<i>Momi</i>	Hasu, Kuri, Tsuga		1942	65		25
<i>Momi</i>	Kiku		1944	65	55	20
Mutsuki		Destroyer	1925	60		40
<i>Mutsuki</i>	Satsuki		1942	60		45
<i>Mutsuki</i>	Mochizuki		1943	60		45
<i>Mutsuki</i>	Fumizuki, Mikazuki		1943	60		45
<i>Mutsuki</i>	Fumizuki		1944	70	65	50
<i>Mutsuki</i>	Satsuki		1944	70	75	55
<i>Mutsuki</i>	Minazuki, Uzuki, Yuzuki		1944	70	65	50
Shimakaze		Destroyer	1943	100		175
<i>Shimakaze</i>	Shimakaze		1944	105		180
Shiratsuyu		Destroyer	1936	95		90
<i>Shiratsuyu</i>	Yudochi		1936	100		100
<i>Shiratsuyu</i>	Hausame		1943	95		100
<i>Shiratsuyu</i>	Shiratsuyu, Shigure, Samidare, Umikaze, Suzkaze		1944	95		100
Yugumo		Destroyer	1941	60	105	110
<i>Yugumo</i>	Kazegumo, Makigumo, Makinami, Naganami, Onami, Suzunami, Takanami, Yugumo		1941	55	100	100
<i>Yugumo</i>	Kazegumo, Makigumo, Makinami, Naganami, Onami, Suzunami, Takanami, Yugumo		1943	60	105	110
<i>Yugumo</i>	Akishimo, Hayashimo		1944	65	110	115
<i>Yugumo</i>	Asashimo		1945	65	110	115
Kaidai		Submarine	1942	50		30
Type-C		Submarine	1940	100		60

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Name class	Refit Ship Name	TYPE class	Commission /Refit Year	WLPS ppm	WLPA	SHIPS 1.4
Regia Marina (Italian)						
Andrea Doria		Battleship	1913	370		305
Andrea Doria	Andrea Doria		1940	365		305
Andrea Doria	Andrea Doria		1942	370		310
Andrea Doria	Caia Duilio		1942	375		310
Conte di Cavour		Battleship	1915	370	390	325
Conte di Cavour	Conte di Cavour		1915	375	395	325
Conte di Cavour	Ciullo Cesare		1941	370	385	330
Littorio		Battleship	1937	550		670
Littorio	Littorio, Veneto Vittorio, Roma		1942	610		730
Littorio	Littorio, Veneto Vittorio		1943	605		725
Aquila		Carrier	---- ('43)	210		120+60/CAG
Aquila	Flights increase to 16			230		120+80/CAG
Alberto Da Giussano		Cruiser	1931	80		80
Capitani Romani		Cruiser	1942	65		75
Capitani Romani	Attilio Regolo, Scipione Africano		1943	70		80
Duca D'Aosta		Cruiser	1935	90		135
Duca D'Aosta	ALL		1943	100		145
Duca D'Aosta	ALL		1944	70	80	130
Duca Degli Abruzzi		Cruiser	1937	110		115
Duca Degli Abruzzi	Giuseppe Garibaldi		1937	105		115
Duca Degli Abruzzi	Luigi di Savoia, Duca Degli Albruzzi		1943	120		125
Duca Degli Abruzzi	Luigi di Savoia, Duca Degli Albruzzi		1944	100	110	120
Duca Degli Abruzzi	Giuseppe Garibaldi		1944	105		120
Duca Degli Abruzzi	Giuseppe Garibaldi		1945	95		110
Duca Degli Abruzzi	Luigi di Savoia, Duca Degli Albruzzi		1945	90	100	110
Etna		Cruiser	---- (44) (43)	60		65
Luigi Cadorna		Cruiser	1933	75		80
Luigi Cadorna	Luigi Cadorna		1933	70		80
Luigi Cadorna	Luigi Cadorna		1943	60		70
Luigi Cadorna	Luigi Cadorna		1944	40	50	65
Montecuccoli		Cruiser	1935	85		130
Montecuccoli	Raimondo Montecuccoli		1943	100		140
Montecuccoli	Raimondo Montecuccoli		1944	70	80	130
Trento		Cruiser	1928	130		170
Trento	Bolzano		1928	135		170
Zara (arm 4+) [LG DP,Rest, weak]		Cruiser	1928	150	(155)[150]<1	155 (200)[155]
<LG=DP,Rest, weak, Arm 4+>					55>	<195>
Zara	Fiume, Pola		1928	145	(150)	150 (195)[150]
Zara	Fiume, Pola		1940	150	(155)	<195>
Zara	Fiume, Pola		1940	150	(155)	155 (200) [155]
Zara	Zara, Gorizia		1940	155	(160)	<195>
Zara	Zara, Gorizia		1940	155	(160)	155 (200) [155]
Zara	Zara, Gorizia		1940	155	(160)	<200>

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Zara	Gorizia		1942	155	(160)	160 (205) [160]
Folgore		Destroyers	1932	30		<200> 25
Folgore	Folgore, Lampo		1942	25		25
Freccia		Destroyers	1931	30		30
Freccia	Dardo, Freccia, Saetta		1943	25		30
Maestrale (speed 7")		Destroyers	1934	30	(35)	30 (35)
Maestrale	Maestrale,		1941	30	35 (40)	30 (40)
Maestrale	Grecale, Scirocco		1942	30	35 (40)	30 (40)
Maestrale	Maestrale		1942	30	(35)	30 (35)
Maestrale	Maestrale, Grecale		1943	25	(30)	30 (40)
Navigatori		Destroyers	1929	35		40
Navigatori	All except Usodimare, da Recco		1940	35		40
Navigatori	Da Mosto, da Verrazzano, Pessagno Tarigo, Pigafetta		1940	40		40
Navigatori	Da Recco		1942	30		45
Navigatori	da Noli, Zeno		1942	40		45
Navigatori	Malocello, Pancaldo		1942	35	40	45
Navigatori	Vivaldi		1942	30		40
Navigatori	Pigafetta		1942	35		40
Oriani		Destroyers	1937	35		40
Oriani	Alfredo Oriani, Vincenzo Gioberti		1942	30	40	45
Soldati		Destroyers	1938/1942	35		40
Soldati	Ascari, Geniere, Lanciere, Camicia Nera		1942	35	30	40
Soldati	Carabiniere, Granatiere		1943	30	35	45
Soldati	Fuciliere, Velite		1943	35		50
Soldati	Legionario		1943	35	40	50
Marcello		Submarine	1938	30		25

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Name class	Refit Ship Name	TYPE class	Commission /Refit Year	WLPS ppm	WLPA	SHIPS 1.4
Dutch Royal Navy						
De Ruyter		Cruiser	1936	80		100
Java		Cruiser	1925	80		90
Amiralden		Destroyer	1928/30	50		55
Amiralden	All		1942	45		50
Tromp (wardroom Generated)		Destroyer	1929(?)		60	70

Name class	Refit Ship Name	TYPE class	Commission /Refit Year	WLPS ppm	WLPA	SHIPS 1.4
Civilian Shipping						
Ammunition Ship		Civilian	N/A	25		15
Ammunition Ship	Generic	Civilian	1942	35		30
Ammunition Ship	Generic	Civilian	1944	40		35
Armed Merchant		Civilian	N/A	25		20
AMC - German Raider	German Raider (torps are one shot)	Civilian - German	N/A	50		35
Seaplane Tender		Civilian	N/A	25	50	50
Tramp Freighter		Civilian	N/A	10		5
Oil tanker		Civilian	N/A	30		20
Oil tanker	Shiretoko Class	Civilian - Japanese	N/A	30		30
Oil tanker	Dale Class	Civilian - RN	N/A	40		35
Oil tanker	Dale Class	Civilian - RN	1944	45		40
Oil tanker	Cimarron Class (speed 5")	Civilian - USN	N/A	35		20 (25)
Oil tanker	Cimarron Class (speed 5")	Civilian - USN	1942	45		35 (40)
Oil tanker	Cimarron Class (speed 5")	Civilian - USN	1944	50		40 (45)
Oil tanker	Generic	Civilian	1942	40		35
Oil tanker	Generic	Civilian	1944	50		50
Liberty Class Cargo		Civilian - US /RN	1941	25		25
Victory Class Cargo		Civilian - US /RN	N/A	30		30
Troop Ship		Civilian	N/A	25		15
Liner		Civilian	N/A	25		50

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Name	Code	Role	Carrier Capable	Service /Commission	WLPS PPF	SHIPs1.4 LBA, PPF	SHIPS1.4, CBA, PPF
Royal Navy							
Blackburn Roc		Fighter	Yes	1940	5	6	2
Blackburn Skua II		Fighter	Yes	1938	15	8	4
Blackburn Skua II		Dive-Bomber	Yes	1938	15	8	4
Beaufighter IC		Bomber	No	1941	15	8	
Beaufighter IC		Bomber	No	1943	15	10	
Beaufighter VIC		Torpedo Bomber	No	1943	15	20	
Fairy Albacore		Bomber	Yes	1940	10	6	2
Fairy Albacore		Torpedo Bomber	Yes	1940	10	10	6
Fairly Swordfish		Bomber	Yes	1936	10	6	2
Fairly Swordfish		Torpedo Bomber	Yes	1936	10	10	6
Fairly Swordfish		ASW	Yes	1936	10	8	4
Gloster Sea-Gladiator		Fighter	Yes	1939	18	10	4
Fairey Fulmer		Fighter	Yes	1940	17	12	6
Fairey Fulmer		Bomber	Yes	1940	17	8	4
Grumman Martlet		Fighter	Yes	1941	20	20	10
Grumman Martlet		Bomber	Yes	1941	20	10	6
Hawker Sea-Hurricane		Fighter	Yes	1941	20	18	8
Hawker Sea-Hurricane		Bomber	Yes	1941	20	10	4
Fairey Barracuda II		Dive Bomber	Yes	1943	16	36	18
Fairey Barracuda II		Torpedo Bomber	Yes	1943	16	14	8
Fairey Barracuda II		ASW	Yes	1943	16	12	6
Short Sunderland		Bomber	No	1938	20	6	
Short Sunderland		ASW	No	1938	20	10	
Hawker Typhoon		Fighter	No	1941	25	26	
Hawker Typhoon		Bomber	No	1941	25	16	
Supermarine Seafire IIc		Fighter	Yes	1942	25	22	12
Supermarine Seafire IIc		Bomber	Yes	1942	25	12	6
Fairey Firefly		Fighter	Yes	1943	20	18	8
Fairey Firefly		Bomber	Yes	1943	20	10	6

Name	Code	Role	Carrier Capable	Service /Commission	WLPS PPF	SHIPs1.4 LBA, PPF	SHIPS1.4, CBA, PPF
US Navy							
Vought Vindicator	SB2U	Dive-Bomber	Yes	1940	5	12	6
Curtis Helldiver	SB2C-1	Dive-Bomber	Yes	1943	10	16	8
Douglas Devastator	TBD-1	Bomber	Yes	1937	10	6	2
Douglas Devastator	TBD-1	Torpedo Bomber	Yes	1937	10	12	6
North American Mustang	P-51A	Fighter	No	1941	10	18	
North American Mustang	P-51A	Fighter	No	1944	10	18	
North American Mustang	P-51D	Bomber	No	1941	20	12	
North American Mustang	P-51D	Bomber	No	1944	20	16	
Boeing B17D	Flying Fortress	level bomber	No	1941	15	16	

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Consolidated Catalina	PBY	Bomber	No	1937	15	6	
Consolidated Catalina	PBY	Torpedo Bomber	No	1937	15	16	
Consolidated Catalina	PBY	ASW	No	1937	20	6	
Douglas Dauntless	SBD-2	Dive-Bomber	Yes	1941	15	18	18
Grumman Wildcat	F4F-3	Fighter	Yes	1940	15	16	8
Grumman Wildcat	F4F-3	Fighter	Yes	1941	15	20	10
Grumman Wildcat	F4F-3	Bomber	Yes	1940	15	10	4
Grumman Wildcat	F4F-3	Bomber	Yes	1941	15	10	6
Grumman Hellcat	F6F-3	Fighter	Yes	1943	20	26	12
Lockheed Hudson	A-28	Bomber	No	1939	15	6	
North American Mitchell	B-25C	Torpedo Bomber	No	1944	15	6	
North American Mitchell	B-25C	Bomber	No	1944	15	8	
North American Mitchell	B-25C	ASW	No	1944	15	14	
Bell Airacobra	P-39D	Fighter	No	1941	20	18	
Bell Airacobra	P-39D	Bomber	No	1941	20	8	
Curtis Warhawk	P-40C	Fighter	No	1940	20	18	
Grumman Avenger	TBF-1C	Torpedo Bomber	Yes	1942	20	10	6
Grumman Avenger	TBF-1C	ASW	Yes	1942	20	10	4
Vought Corsair	F4U-1	Fighter	No	1942	25	26	
Vought Corsair	F4U-4	Fighter	Yes	1944	25	32	16
Vought Corsair	F4U-4	Bomber	Yes	1944	25	18	8

Marine National (french)

Name	Code	Role	Carrier Capable	Service /Commission	WLPS PPF	SHIPs1.4 LBA, PPF	SHIPs1.4, CBA, PPF
Potez 630		Bomber	No	1937	5	6	
Levasseur PL7	Series 2	Torpedo Bomber	Yes	1927	10	8	4
Latecoere 298D		Bomber	No	1939	15	6	
Latecoere 298D		Torpedo Bomber	No	1939	15	14	
Nieuport LN411		Dive-Bomber	Yes	1939	15	22	10
Marane-SoulnierS 406		Fighter	No	1938	15	14	
Dewoitine D.520		Fighter	No (Y)	1939	20	18	10

KreigsMarien (Germany)

Name	Code	Role	Carrier Capable	Service /Commission	WLPS PPF	SHIPs1.4 LBA, PPF	SHIPs1.4, CBA, PPF
Fiesler FI167		Torpedo Bomber	Yes	1940	15	14	8
Fiesler FI167		Bomber	Yes	1940	15	6	4
Focke-Wulf FW200	Condor	Bomber	No	1940	15	6	
Heinkel He177	Greif	Bomber	No	1936	15	8	
Junkers Ju87B	Stuka	Dive-Bomber	Yes	1938	15	18	8
Junkers Ju88A		Bomber	No	1939	10	8	
Junkers Ju88A		Dive-Bomber	No	1939	10	30	
Junkers Ju88A		Torpedo Bomber	No	1942	10	24	
Messerchmit Me110C		Fighter	No	1939	25	10	
Messerchmit Me110C		Bomber	No	1939	25	8	
Heinkel He111H		Bomber	No	1939	10	6	

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Heinkel He111H	Torpedo Bomber	No	1939	15	22	
Messerschmit Me109D	Bomber	Yes	1940	20	10	6
Messerschmit Me109D	Fighter	Yes	1940	20	18	10
Focke-Wulf Fw190A	Fighter	No	1941	30	30	
Focke-Wulf Fw190A	Bomber	No	1941	30	12	

Name	Code	Role	Carrier Capable	Service /Commission	WLPS PPF	SHIPs1.4 LBA, PPF	SHIPs1.4, CBA, PPF
Imperial Japanese Navy							
Aichi D3A1	Val	Dive-Bomber	Yes	1940	10	8	4
Aichi E16A1	Paul	Dive-Bomber	No	1944	15	12	6
Kawanishi H8K1	Emily	Bomber	No	1942	20	6	
Kawanishi H8K1	Emily	Torpedo Bomber	No	1942	20	18	
Kawanishi H8K1	Emily	ASW	No	1942	20	10	
Kawanishi N1K1-J	George	Fighter	No	1943	35	28	
Kawanishi N1K1-J	George	bomber	No	1943	35	12	
Mitsubishi A5M4	Claude	Fighter	Yes	1938	5	6	4
Mitsubishi A6M2	Zero	bomber	Yes	1940	15	10	4
Mitsubishi A6M5	Zero	bomber	Yes	1944	15	12	6
Mitsubishi A6M2	Zero	Fighter	Yes	1940	20	18	10
Mitsubishi A6M5	Zero	Fighter	Yes	1944	20	22	12
Mitsubishi A6M5	Zero	Kamikaze	No	1944	20	8	
Mitsubishi G3M	Nell	Bomber	No	1937	10	6	
Mitsubishi G3M	Nell	Torpedo Bomber	No	1937	15	8	
Mitsubishi G4M1	Betty	Bomber	No	1940	10	6	
Mitsubishi G4M1	Betty	Torpedo Bomber	No	1940	10	12	
Nakajima B5N1	Kate	Bomber	Yes	1937	15	8	4
Nakajima B5N1	Kate	Torpedo Bomber	Yes	1937	15	14	8
Nakajima B6N	Jill	Bomber	Yes	1943	15	8	4
Nakajima B6N	Jill	Torpedo Bomber	Yes	1943	15	20	12
Nakajima Ki-115	TARA	Kamikaze	No	1945	25	8	
Yokosuka B4Y1	Jean	Bomber	Yes	1937	10	6	2
Yokosuka B4Y1	Jean	Torpedo Bomber	Yes	1937	10	10	6
Yokosuka D4Y2	Judy	Dive-Bomber	Yes	1944	20	28	14
Yokosuka D4Y2	Judy	Kamikaze	No	1944	20	10	
Yokosuka MXY-7	Okha	Kamikaze	No	1945	30	20	

Name	Code	Role	Carrier Capable	Service /Commission	WLPS PPF	SHIPs1.4 LBA, PPF	SHIPs1.4, CBA, PPF
Regia Marina (Italian)							
Fiat G.50	Freccia	Fighter	No	1940	10	10	
Fiat G.50	Freccia	Bomber	No	1940	10	8	
Savoia Marchetti Sm.79	Sparviero	Bomber	No	1936	10	6	
Savoia Marchetti Sm.79	Sparviero	Torpedo Bomber	No	1936	20	22	
Breda Ba.201		Dive-Bomber	No (Yes)	---(1943)	15	18	8
Junkers Ju 87	Picchiatello	Dive-Bomber	No	1941	15	18	
Macchi Mc.202	Folgore	Fighter	No	1941	15	18	

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Macchi Mc.202	Folgore	Bomber	No	1941	15	10	
Reggiane Re.2000	Falco I	Fighter	No	1941	15	16	
Reggiane Re.2001	Falco II	Fighter	Yes	1942	20	20	10
Reggiane Re.2001	Falco II	Bomber	Yes	1942	20	12	6
ALL							
Carrier Scouting Flight	Scout	N/A	Y	N/A			5
Max 25% (rounding up) of a carriers flight capacity							

Name	Service /Commission	WLPS	SHIPS 1.4, BETA
Royal Navy			
MTB1	1936	20	12
Denny SGB	1942	20	14
Denny SGB	1943	20	20
Elco 77	1942	20	16
Fairmile A	1940	20	12
Fairmile B	1940	20	12
Fairmile C	1941	20	12
Fairmile C	1942	20	16
Fairmile D	1943	20	16

Name	Service /Commission	WLPS	SHIPS 1.4, BETA
US Navy			
Elco 77	1941	20	26
Elco 80	1942	20	26

Name	Service /Commission	WLPS	SHIPS 1.4, BETA
Marine National (french)			
VTB8-11	1935	20	18
MTB90 (Vosper 73)	1942	20	22
CH1	1934	15	10
CH5 /CH41	1940	15	10
Fairmile B ML	1943	20	16

Name	Service /Commission	WLPS	SHIPS 1.4, BETA
KriegsMarinen (Germany)			
R1-218 R-Boat	1931	10	10
R1-218 R-Boat	1943	10	16
R301 R-Boat	1943	20	16
S6-14 S-Boat	1933	20	16
S6-14 S-Boat	1938	20	16
S6-14 S-Boat	1942	20	22
S26 -38 S-Boat	1939	20	16
S26 -38 S-Boat	1940	20	16
S100-139 S-Boat	1943	20	18
S170 -701 S-Boat	1944	25	26

Name	Service /Commission	WLPS	SHIPS 1.4, BETA
Imperial Japanese Navy			
Shinyo Kamikaze	1944	10	10
T-1 MTB	1941	20	12
T-23 MTB	1943	10	10
T-14	1943	15	12

Name	Service /Commission	WLPS	SHIPS 1.4, BETA
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Regia Marina (Italian)

MAS boat	1929	20	18
MS type 1	1942	20	14
MS type 2	1943	20	20
VAS type 1-3	1942	20	14
MT Boat	1940	20	14