






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 repointed 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 Rulebook 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	Flights No.	WLPS	WLPA ppm	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	15	250		160+75/CAG
Ark Royal	Ark Royal		1941	15	265		175+75/CAG
Audacious		Carrier	----(47)	19	300		290+95/CAG
Colossus		Carrier	1944	9	130		130+45/CAG
Colossus	Ocean		1945	9	140		140+45/CAG
Colossus	Colossus, Glory, Venerable, Vengence		1945	9	135		135+45/CAG
Courageus		Carrier	1917 (1928 as carrier)	12	180		135+60/CAG
Eagle		Carrier	1924	5	110		95+25/CAG
Eagle	Eagle		1942	5	135		105+25/CAG
Furious		Carrier	1917 (1925 as carrier)	9	160		125+45/CAG
Furious	Furious		1941	9	165		130+45/CAG
Furious	Furious		1943	9	175		135+45/CAG
Furious	Furious		1943	9	225	200	145+45/CAG
Hermes		Carrier	1924	5	95		70+25/CAG
Illustrious		Carrier	1940	8	180		170+40/CAG
Illustrious	Formidable, Illustrious, Victorious		1941	8	185		175+40/CAG
Illustrious	Formidable		1943	8	210	215	185+40/CAG
Illustrious	Formidable		1943	15	235	240	190+65/CAG
Illustrious	Illustrious		1943	8	220	225	195+40/CAG
Illustrious	Illustrious		1943	15	245	250	200+65/CAG
Illustrious	Victorious		1943	8	235	240	210+40/CAG
Illustrious	Victorious		1943	15	260	265	215+65/CAG
Illustrious	Formidable		1944	15	270		200+65/CAG

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<i>Illustrious</i>	Illustrious		1944	15	275		205+65/CAG
<i>Illustrious</i>	Victorious		1944	15	290	285	220+65/CAG
<i>Illustrious</i>	Formidable		1945	15	280		210+65/CAG
<i>Illustrious</i>	Victorious		1945	15	290	285	220+65/CAG
Implacable		Carrier	1944	20	300		195+100/CAG
<i>Implacable</i>	Orignial Design		1944	15	250	275	195+75/CAG
<i>Implacable</i>	Implacable		1945	20	315		210+100/CAG
<i>Implacable</i>	Implacable - OD		1945	15	265	290	210+75/CAG
<i>Implacable</i>	Indefatigable		1945	20	310		205+100/CAG
<i>Implacable</i>	Indefatigable - OD		1945	15	260	285	205+75/CAG
Indomitable		Carrier	1941	11	220		160+55/CAG
<i>Indomitable</i>	Indomitable		1942	11	245		185+55/CAG
<i>Indomitable</i>	Indomitable		1943	14	295		195+70/CAG
<i>Indomitable</i>	Indomitable		1944	14	345		240+70/CAG
<i>Indomitable</i>	Indomitable		1945	14	345		240+70/CAG
Malta		Carrier	----	24	325		195+120/CAG
Unicorn		Carrier	1943	9	135		100+45/CAG
<i>Unicorn</i>	Unicorn		1944	9	150		125+45/CAG
Activity		carrier / civilian	1942	3	60		60+15/CAG
Archer		carrier / civilian	1941	4	60		45+20/CAG
<i>Archer</i>	Archer		1942	4	65		55+20/CAG
<i>Archer</i>	Archer		1943	4	70		55+20/CAG
Argus		carrier / civilian	1918	5	80		50+25/CAG
<i>Argus</i>	Argus		1940	5	90		60+25/CAG
<i>Argus</i>	Argus		1942	5	95		60+25/CAG
Attacker		carrier / civilian	1942	5	85		70+25/CAG
<i>Attacker</i>	Battler		1943	5	95	90	75+25/CAG
<i>Attacker</i>	Searcher		1944	5	90		75+25/CAG
<i>Attacker</i>	Fencer, Pursuer, Striker		1945	5	90		75+25/CAG
Audacity		carrier / civilian	1941	2	50		40+10/CAG
Avenger		carrier / civilian	1941	3	60		45+15/CAG
<i>Avenger</i>	Biter		1941	3	65		45+15/CAG
<i>Avenger</i>	Biter		1942	3	70		50+15/CAG
<i>Avenger</i>	Dasher		1942	3	65		50+15/CAG
Campania		carrier / civilian	1944	3	65		70+15/CAG
Merchant carrier		carrier / civilian	1943	1	40		30+5/CAG
Pretoria Castle		carrier / civilian	1943	3	75		70+15/CAG
Ruler		carrier / civilian	1943	5	85		90+25/CAG
<i>Ruler</i>	Arbiter		1945	5	90		95+25/CAG
<i>Ruler</i>	Trouncer		1945	5	95		100+25/CAG
Vidnex		carrier / civilian	1944	4	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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<i>Crown Colony (Fiji group)</i>	Kenya		1945		160	170	165
<i>Crown Colony (Fiji group)</i>	Mauritius		1945		160	155	165
<i>Crown Colony (Fiji group)</i>	Nigeria		1945		170	160	165
Danae		Cruiser	1918		70		55
<i>Danae</i>	Dunedin		1941		80		60
<i>Danae</i>	Dauntless, Despatch, Durban		1942		80		60
<i>Danae</i>	Diomedea		1943		80		60
<i>Danae</i>	Danae		1943		80		70
<i>Danae</i>	Dragon		1943		75	80	70
<i>Danae</i>	Danae (Conrad)		1944		60	55	55
<i>Danae</i>	Dragon		1944		85	90	70
Delhi		Cruiser	1942		60		60
<i>Delhi</i>	Delhi		1944		65		65
Dido (group 1)		Cruiser	1940		90		105
<i>Dido (group 1)</i>	Bonaventure, Phoebe		1940		80		100
<i>Dido (group 1)</i>	Bonaventure		1941		90		105
<i>Dido (group 1)</i>	Phoebe		1942		100		115
<i>Dido (group 1)</i>	Dido		1942		95	90	110
<i>Dido (group 1)</i>	Phoebe		1943		110		120
<i>Dido (group 1)</i>	Dido		1943		105	95	110
Dido (group 2)		Cruiser	1940		95		105
<i>Dido (group 2)</i>	Naiad		1940		85		100
<i>Dido (group 2)</i>	Euralyus		1943		100		110
<i>Dido (group 2)</i>	Argonaut		1944		120	115	115
<i>Dido (group 2)</i>	Euralyus		1944		110	105	110
<i>Dido (group 2)</i>	Sirius		1944		100		115
<i>Dido (group 2)</i>	Argonaut		1945		130	125	130
<i>Dido (group 2)</i>	Cleopatra		1945		120	115	120
<i>Dido (group 2)</i>	Sirius		1945		110	125	115
Dido (group 3)		Cruiser	1941		85		105
<i>Dido (group 3)</i>	Charybdis		1943		90	85	100
<i>Dido (group 3)</i>	Scylla		1944		90		110
Edinburgh		Cruiser	1939		130		150
<i>Edinburgh</i>	Edinburgh		1941		135		155
<i>Edinburgh</i>	Edinburgh		1942		150	145	165
<i>Edinburgh</i>	Belfast		1943		135		155
<i>Edinburgh</i>	Belfast		1944		170	160	190
<i>Edinburgh</i>	Belfast		1945		195	165	195
Emerald	Emerald	Cruiser	1926		110		120
Emerald	Enterprise	Cruiser	1926		110		125
Gloucester		Cruiser	1938		135		130
<i>Gloucester</i>	Manchester		1940		150	145	135
<i>Gloucester</i>	Manchester		1941		155	150	145
<i>Gloucester</i>	Liverpool		1944		160		155
<i>Gloucester</i>	Liverpool		1945		155	165	165
Hawkins (type 1)		Cruiser	1919 (rtn 1940/42)		85		75
<i>Hawkins (type 1)</i>	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
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
Kent	Berwick		1944	165	160
Kent	Canberra	Cruiser	1928	165	130
Kent	Canberra		1941	190	155
Kent	Canberra		1942	200	165
Kent	Cumberland	Cruiser	1928	125	135
Kent	Cumberland		1941	135	145
Kent	Cumberland		1943	130	125
Kent	Cumberland		1944	150	145
Kent	Kent	Cruiser	1928	135	135
Kent	Kent		1941	160	155
Kent	Kent		1943	150	145
Kent	Kent		1944	170	165
Kent	Suffolk	Cruiser	1928	130	130
Kent	Suffolk		1941	150	145
Kent	Suffolk		1943	145	140
Kent	Suffolk		1944	165	160
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
London	Devonshire		1943	225	215
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
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
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
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
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
A & B class	Active, Antelope, Anthony		1944		35	40
Admiralty S class		Destroyer	1918		50	30
Admiralty S class	Stronghold, Sturdy, Thracian		1918		60	35
Admiralty S class	Sabre, Saladin, Sardonyx, Scimitar, Shikari, Scout		1941		60	55
Admiralty S class	Sabre, Saladin, Sardonyx, Scimitar, Shikari, Scout		1941		70	65
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
Admiralty V & W class	Walpole		1944		35	40
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
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
L Class (group 1)			1940	55		65
L Class (group 1)	all		1945	60		70

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L (group 2) & M Class			1941		55		70
N Class			1940		50		60
N Class	Nerissa (Polish - Piorun)		1940		50		65
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 (Austrian, Nepal)		1942		55		70
O & P Class		Destroyer	1941		50		55
O & P Class	O class group 2: Obdurate, Obedient, Opportune, Orwell		1941		60		65
O & P Class	Onslaught, Onslow		1944		60		60
O & P Class	Offa,		1945		55		65
O & P Class	Onslow		1945		65		70
O & P 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]						60	
Scott class [-aircraft X]	Malcolm (refit should add Hedgehogs)		1943		65	(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	[40]	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

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<i>Tribal</i>	Nubian		1942		45		60
<i>Tribal</i>	Ashanti, Eskimo, Tartar		1944		50	55	70
<i>Tribal</i>	Nubian		1944		55		75
<i>flower</i>		DD (Corvette)	1940		25		25
<i>flower</i>	All		1942		35	30	35
<i>Loch</i>		DD (Corvette)	1944		50		40
<i>Loch</i>	All		1941(1944)		60	55	50
<i>S class</i>		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
<i>T class</i>		submarine	1938		100		45
<i>T class</i>	All		1943		110		50
<i>U class</i>		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	Flights No.	WLPS	WLPA ppm	SHIPS 1.4
United States Navy							
Colorado		Battleship	1921		400		400
Colorado	Maryland		1941		440		430
Colorado	West Virgina		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

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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
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	22	270		185+110/CAG
Essex	Bennington, Bon Homme Richard, Randolph, Shangri-La		1944	22	275	280	195+110/CAG
Essex	Hornet		1945	22	270	275	190+110/CAG
Essex	Essex		1945	22	285	290	205+110/CAG
Essex	Shangri-La		1945	22	300	305	220+110/CAG
Essex	Bon Homme Richard		1945	22	305	310	235+110/CAG
Essex	Bunker Hill, Intrepid, Lexington, Wasp, Yorktown		1945	22	310		235+110/CAG
Essex	Antetiam, Lake Champlain, Princeton, Tarawa, Randolph,		1945	22	310		235+110/CAG
Essex	Bennington, Boxer, Hancock, Ticonderoga		1945	22	315		240+110/CAG
Independence		Carrier	1943	7	105		120+35/CAG

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Independence	Cabot, Cowpens, Monterey		1944	7	100		115+35/CAG
Independence	Belleau Wood, Independence		1944	7	110		125+35/CAG
Independence	Bataan		1945	7	110		125+35/CAG
Independence	Langley, San Jacinto		1945	7	100		115+35/CAG
Lexington		Carrier	1927	20	260		185+100/CAG
Lexington	Lexington		1942	20	210	250	170+100/CAG
Lexington	Saratoga		1942	20	285	265	175+100/CAG
Lexington	Saratoga		1943	20	300	280	195+100/CAG
Lexington	Saratoga		1944	20	415	355	285+100/CAG
Midway		Carrier	Sep-45	34	450		290+170/CAG
Ranger		Carrier	1934	19	220		100+95/CAG
Ranger	Ranger		1941	19	225		105+95/CAG
Ranger	Ranger		1942	19	265		135+95/CAG
Ranger	Ranger		1943	19	240		120+95/CAG
Ranger	Ranger		1944	19	230		95+95/CAG
Wasp		Carrier	1940	21	240		100+105/CAG
Wasp	Wasp		1942	21	275		115+105/CAG
Yorktown		Carrier	1937	24	280		120+120/CAG
Yorktown	Enterprise, Yorktown		1940	24	300		125+120/CAG
Yorktown	Hornet		1941	24	300		125+120/CAG
Yorktown	Enterprise		1942	24	310		135+120/CAG
Yorktown	Hornet, Yorktown		1942	24	305		130+120/CAG
Yorktown	Enterprise		1943	24	375		180+120/CAG
Yorktown	Enterprise		1945	24	385		190+120/CAG
Bogue		carrier / civilian	1942	7	100		60+35/CAG
Bogue	Altamaha, Barnes, Bouge, Bretan, Card, Core, Nassau, croatan, Block Island, Copahee, Prince William		1943	7	110	120	80+35/CAG
Bogue	Croatan, Copahee		1943	7	115	125	85+35/CAG
Bogue	Prince William		1943	7	105		75+35/CAG
Bogue	Block Island		1944	7	120		95+35/CAG
Bogue	Prince William		1944	7	115		85+35/CAG
Bogue	Altamaha, Barnes, Bouge, Bretan, Card, Core, Nassau, Prince William		1945	7	130	140	105+35/CAG
Bogue	Copahee		1945	7	120	140	105+35/CAG
Bogue	Croatan		1945	7	125		100+35/CAG
Casablanca		carrier / civilian	1943	6	95		85+30/CAG
Casablanca	NOT Bismark Sea, Gambier Bay, Klinin Bay, Liscome Bay, Mommaney Bay & St. Lo		1945	6	100		90+30/CAG
Long Island		carrier / civilian	1941	4	75		50+20/CAG
Long Island	Long Island		1942	4	85		60+20/CAG
Long Island	Long Island		1944	4	95		65+20/CAG
Long Island	Long Island		1945	4	105		75+20/CAG
Sangamon		carrier / civilian	1942	7	100		80+35/CAG
Sangamon	ALL		1943	7	105		85+35/CAG
Sangamon	ALL		1944	7	115		90+35/CAG
Sangamon	ALL		1945	7	145	135	110+35/CAG
Alaska		Cruiser	1944		250	455	570
Atlanta (group 1)		Cruiser	1941		70		110

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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
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	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	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	140
Northampton	Houston		1941	135	130
Northampton	Northampton		1941	145	140
Northampton	Chicago		1942	150	145
Northampton	Northampton		1942	145	140

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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
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

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St Louis	St Louis		1944		175	
Wichita		Cruiser	1939		145	200
Wichita	Wichita		1941		155	215
Wichita	Wichita		1942		180	245
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
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	70 (65)
Benson	All less Mayo		1942		65	65
Benson	Mayo		1944		80	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
Clemson		Destroyer	1919		60	55
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

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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
Clemson	Goff, Hatfield, Kane, King, Lawrence, Litchfield	Destroyer	1942	60		30
Clemson	Bainbridge, Decatur, MacLeish, McCormick, Simpson,	DDE	1943	55		45
Clemson	Belknap, Clemson, George E. Badger, Goldsborough, Greene, Hulbert,	Seaplane tender	1943	35		30
Clemson	Osmond Ingram, McFarland					
Clemson	Alden, Barker, Barry, Borie, Bulmer, John D. Edwards, John D. Ford, Parrott,	Destroyer	1943	65		30
Clemson	Paul Jones, Whipple					
Clemson	Hovey, Perry, Southard, Trever	Minesweeper	1943	35		30
Clemson	Overton, Kane	Assault Transport	1943	35		35
Clemson	Noa	Assault Transport	1943	35	30	30
Clemson	Barry	Assault Transport	1943	35		35
Clemson	Hopkins, Long	Minesweeper	1944	35		30
Clemson	Belknap, Clemson, George E. Badger, Goldsborough, Greene, Osmond	Assault Transport	1944	40	35	35
Clemson	Ingram					
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	55
Gleaves	Gleaves, Kearny, Niblock, Plunkett		1940	70	65	60
Gleaves	Gleaves, Kearny, Niblock, Plunkett		1941	70	65	60
Gleaves	All others		1942	65	60	60
Gleaves	Gleaves, Kearny, Niblock, Plunkett		1942	75	70	65
Gleaves	Eberle, Edison, Ericsson, Livermore, Ludlow, Nicholson,		1943	70	65	70
Gleaves	Grayson, Gwin,		1943	75	70	75
Gleaves	Swanson, Woolsey, Wilkes		1943	75	75	85
Gleaves	Gleaves, Kearny, Niblock, Plunkett		1943	85	80	85
Gleaves	Eberle, Edison, Ericsson, Livermore, Ludlow, Nicholson,		1944	75	70	75
Gleaves	Eberle, Edison, Ericsson, Livermore, Grayson, Swanson, Woolsey		1945	65	60	70
Gleaves	Gleaves, Kearny, Niblock, Plunkett		1945	75	70	80

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Gridley		Destroyer	1937		60		50
Gridley	All		1943		75		65
Gridley	All		1944		80		70
Gridley	All		1945		60		60
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	Flights No.	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 Arc)		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	10	160		85+50/CAG
Bearn	Bearn		1943	0	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

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<i>Chacal</i>	Leopard		1940		55		55
<i>Chacal</i>	Leopard		1942		60		60
<i>Chacal</i>	Tigre		1944		40		50
Le Fantasque		Destroyer	1935		60		65
<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	80	70
<i>Mogador</i>	Mogador		1941		60	75	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	Flights No.	WLPS	WLPA ppm	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)	10	210		190+50/CAG
Jade		Carrier	---- (43)	6	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

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Konigsberg	Koln		1941	80	90	115
Konigsberg	Koln		1942	90	100	125
Konigsberg	Koln		1944	95	105	130
Konigsberg	Koln		1945	100	120	135
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		Cruiser	----(43)	160		170
P class		Cruiser	----(42)	250		295
Spahkreuzer		Cruiser	----(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 (LGs P/S/A arcs)	Z23		1942	65	70	85
type 1936A (LGs P/S/A arcs)	Z25		1942	65	70	85
type 1936A (LGs P/S/A arcs)	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	70	85
Type 1936A (mob)	Z31		1942	60	65	80
Type 1936A (mob)	Z31		1944	65	70	85
Type 1936A (mob)	Z31		1945	75	80	105
Type 1936A (mob)	Z33		1945	80	85	100
Type 1936A (mob)	Z34		1945	70	75	90
Type 1936A (mob)	Z38		1945	70	75	90
Type 1936A (mob)	Z39		1945	75	80	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

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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
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	Flights No.	WLPS	WLPA ppm	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	810	710
Nagato	Nagato		1945		740	710	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	5	350		300+CAG
Ise	Hyuga		1944	5	360		310+CAG
Ise	Ise		1944	5	380		335+CAG
Akagi		Carrier	1927	17	250		135+85 /CAG
Chitose		Carrier	1943	7	110		95+35/CAG
Chitose	Chitose		1944	7	115		100+35/CAG
Hiryu		Carrier	1939	14	230		130+70/CAG
Hiyo		Carrier	1942	12	200		100+60/CAG
Hiyo	Hiyo		1944	12	210		110+60/CAG
Hiyo	Jun'yo'		1944	12	215		115+60/CAG
Hosho		Carrier	1922	4	90		60+20/CAG
Hosho	Hosho		1941	4	85		55+20/CAG
Hosho	Hosho		1942	2	65		45+10/CAG
Kaga		Carrier	1928	18	375		150+90/CAG
Kaga	Kaga		1941	18	380		155+90/CAG
Ryuho		Carrier	1942	7	110		90+35/CAG
Ryuho	Ryuho		1943	7	115		95+35/CAG
Ryuho	Ryuho		1944	7	120		100+35/CAG

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Ryujo		Carrier	1933	10	140		90+50/CAG
Ryujo	Ryujo		1940	10	145		95+50/CAG
Ryujo	Ryujo		1942	10	150		100+50/CAG
Shinano		Carrier	1940	12	220		170+60/CAG
Shokaku		Carrier	1941	18	275		145+90/CAG
Shokaku	Shokaku /Zuikaku		1942	18	280		150+90/CAG
Shokaku	Shokaku /Zuikaku		1943	18	285		155+90/CAG
Shokaku	Zuikaku		1944	18	290		160+90/CAG
Soryu		Carrier	1937	14	230		130+70/CAG
Taiho		Carrier	1944	18	280		150+90/CAG
Zuiho		Carrier	1940	7	110		90+35/CAG
Zuiho	Zuiho		1943	7	120		100+35/CAG
Zuiho	Zuiho		1944	7	125		105+35/CAG
Agano		Cruiser	1942		110		140
Agano	Sakawa		1944		150	140	180
Agano	Sakawa		1945		155	145	185
Aoba		Cruiser	1926		225		140
Aoba	Aoba		1943		200		100
Aoba	Aoba		1944		235		125
Furutaka		Cruiser	1926		225	230	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

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Oyodo	Oyodo		1944	90		155
Sendai		Cruiser	1924	80		70
Sendai	Jintsu, Naka		1941	140	100	80
Sendai	Naka		1943	145	105	90
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	95	85
Akizuki	Hatsuzuki		1943	65	100	90
Akizuki	Akizuki, Shimotsuki, Wakatsuki, Fuyutsuki, Hanazuki, Harutsuki, Suzutuki		1944	65	100	90
Akizuki	Fuyutsuki, Hanazuki, Harutsuki, Suzutuki		1945	80	110	105
Akizuki	Natsuzuki, Yoizuki		1945	70	105	105
Asashio		Destroyer	1937	60	90	90
Asashio	Arashio		1943	65	95	100
Asashio	Michishio		1943	60	90	90
Asashio	Michishio, Asagumo, Kasumi, Yamagumo		1944	65	90	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

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<i>Kagero</i>	Hamakaze, Isokaze, Yukikaze		1945	115	110	105
<i>Kagero</i>	Amatsukaze		1945	110	90	55
<i>Kamikaze</i>		Destroyer	1922	60		35
<i>Kamikaze</i>	Hayate, Asanagi, Yunagi		1922	70	65	40
<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
<i>Matsu</i>		Destroyer	1944	55		55
<i>Momi</i>		Destroyer	1919	60	40	20
<i>Momi</i>	Kiku, Aoi, Fuji, Hagi, Hishi, Susuki, Tade, Tsuta, Yamogi (P31-38)		1940	60	30	15
<i>Momi</i>	Ashi, Kaki, Nire, Sumire, Taki		1940	50	25	10
<i>Momi</i>	Hasu, Kuri, Tsuga		1942	65	45	25
<i>Momi</i>	Kiku		1944	65	35	20
<i>Mutsuki</i>		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
<i>Shimakaze</i>		Destroyer	1943	100		175
<i>Shimakaze</i>	Shimakaze		1944	105		180
<i>Shiratsuyu</i>		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
<i>Yugumo</i>		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
<i>Kaidai</i>		Submarine	1942	50		30
<i>Type-C</i>		Submarine	1940	100		60

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Zara	Fiume, Pola		1940	150	(155)	155 (200) [155]
Zara	Zara, Gorizia		1940	155	(160)	<195> 155 (200) [155]
Zara	Gorizia		1942	155	(160)	<200> 160 (205) [160]
Folgore		Destroyers	1932	30	25	25
Folgore	Folgore, Lampo		1942	25	30	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	45	40
Navigatori	All except Usodimare, da Recco		1940	35	45	40
Navigatori	Da Mosto, da Verrazzano, Pessagno Tarigo, Pigafetta		1940	40		40
Navigatori	Da Recco		1942	30	40	45
Navigatori	da Noli, Zeno		1942	40	50	45
Navigatori	Malocello, Pancaldo		1942	35	50	45
Navigatori	Vivaldi		1942	30	40	40
Navigatori	Pigafetta		1942	35		40
Oriani		Destroyers	1937	35	45	40
Oriani	Alfredo Oriani, Vincenzo Gioberti		1942	30	50	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	Flights No.	WLPS	WLPA ppm	SHIPS 1.4
Dutch Royal Navy							
De Ruyter		Cruiser	1936		80		100
Java		Cruiser	1925		80		90
Amiralden		Destroyer	1928/30		50		55
<i>Amiralden</i>	All		1942		45		50
<i>Project 1047</i>		Battleship	--(41)			385	465
Tromp		Cruiser	1939		70		75
Tromp	Jacob van Heemskerck	Cruiser	1940		45		60
Eendracht			--(41)		110		125
de Zeven Provinciën			1910		100		130
de Zeven Provinciën	Surabaya	Cruiser	1940		80		110
Callenburgh	Projection	Destroyer	1940		55		55
Callenburgh	Isaac Sweers		1941		60		65
Lee Melpomane	Bouclier	Destroyer	1940		25		30
K Class		Destroyer	-(40)		20		25
Willem van der Zaan		Destroyer	1939		20		25
Willem van der Zaan	RN Weapon fit		1940		20		25
van Kinsberg		Destroyer	1939		35		30
van Kinsberg	van Kinsberg		1940		40		35
van Kinsberg	van Kinsberg		1942		50		50
Flores		Destroyer	1926		25		20
Flores	Flores		1940		40		35
Flores	Soemba		1942		30		25
Flores	Johan Maurits van Nassau		1933		35		30
Flores	Johan Maurits van Nassau		1940		30		25
O21 / K XV		Submarine	1940		60		40
O21 / K XV	O16 Class	Submarine	1930s		65		45

Name class	Refit Ship Name	TYPE class	Commission /Refit Year	Flights No.	WLPS	WLPA ppm	SHIPS 1.4
Civilian Shipping							
Ammunition Ship		Civilian	N/A		25		15
<i>Ammunition Ship</i>	Generic	Civilian	1942		35		30
<i>Ammunition Ship</i>	Generic	Civilian	1944		40		35
Armed Merchant		Civilian	N/A		25		20
AMC - German Raider	<i>German Raider (torps are one shot)</i>	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

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<i>Oil tanker</i>	Shiretoko Class	Civilian - Japanese	N/A		30	30
<i>Oil tanker</i>	Dale Class	Civilian - RN	N/A		40	35
<i>Oil tanker</i>	Dale Class	Civilian - RN	1944		45	40
<i>Oil tanker</i>	Cimarron Class (speed 5")	Civilian - USN	N/A		35	20 (25)
<i>Oil tanker</i>	Cimarron Class (speed 5")	Civilian - USN	1942		45	35 (40)
<i>Oil tanker</i>	Cimarron Class (speed 5")	Civilian - USN	1944		50	40 (45)
<i>Oil tanker</i>	Generic	Civilian	1942		40	35
<i>Oil tanker</i>	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		Figher	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



Name	Code	Role	Carrier Capable	Service /Commission	WLPS PPF	SHIPs1.4 LBA, PPF	SHIPs1.4, CBA, PPF
Marine National (french)							
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



Name	Code	Role	Carrier Capable	Service /Commission	WLPS PPF	SHIPs1.4 LBA, PPF	SHIPs1.4, CBA, PPF
KreigsMarien (Germany)							
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	Bf 110	Fighter	No	1939	25	10	
Messerchmit Me110C	Bf 110	Bomber	No	1939	25	8	
Heinkel He111H		Bomber	No	1939	10	6	

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Heinkel He111H		Torpedo Bomber	No	1939	15	22	
Messerschmitt Me109D	Bf 109	Bomber	Yes	1940	20	10	6
Messerschmitt Me109D	Bf 109	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	Taka	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	Code	Role	Carrier Capable	Service /Commission	WLPA PPF	SHIPs1.4 LBA, PPF	SHIPs1.4, CBA, PPF
Dutch Royal Navy							
Fokker Gia		Figher	N	1940	20	14	
Fokker Gia		Dive-Bomber	N	--(1940)	20	14	
Fokker D.XXI		Figher	N	1938	15	18	
Brewster Buffalo		Figher	N	1937	15	14	
Fokker T.IV		Torpedo Bomber	N	1927	5	4	
Fokker T.IV		Bomber	N	1927	5	4	
Martin 139	B-10	Bomber	N	1936	5	6	

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

Name	Service /Commission	WLPA	SHIPS 1.4, BETA
Dutch Royal Navy			
Z Class	1916	20	20